

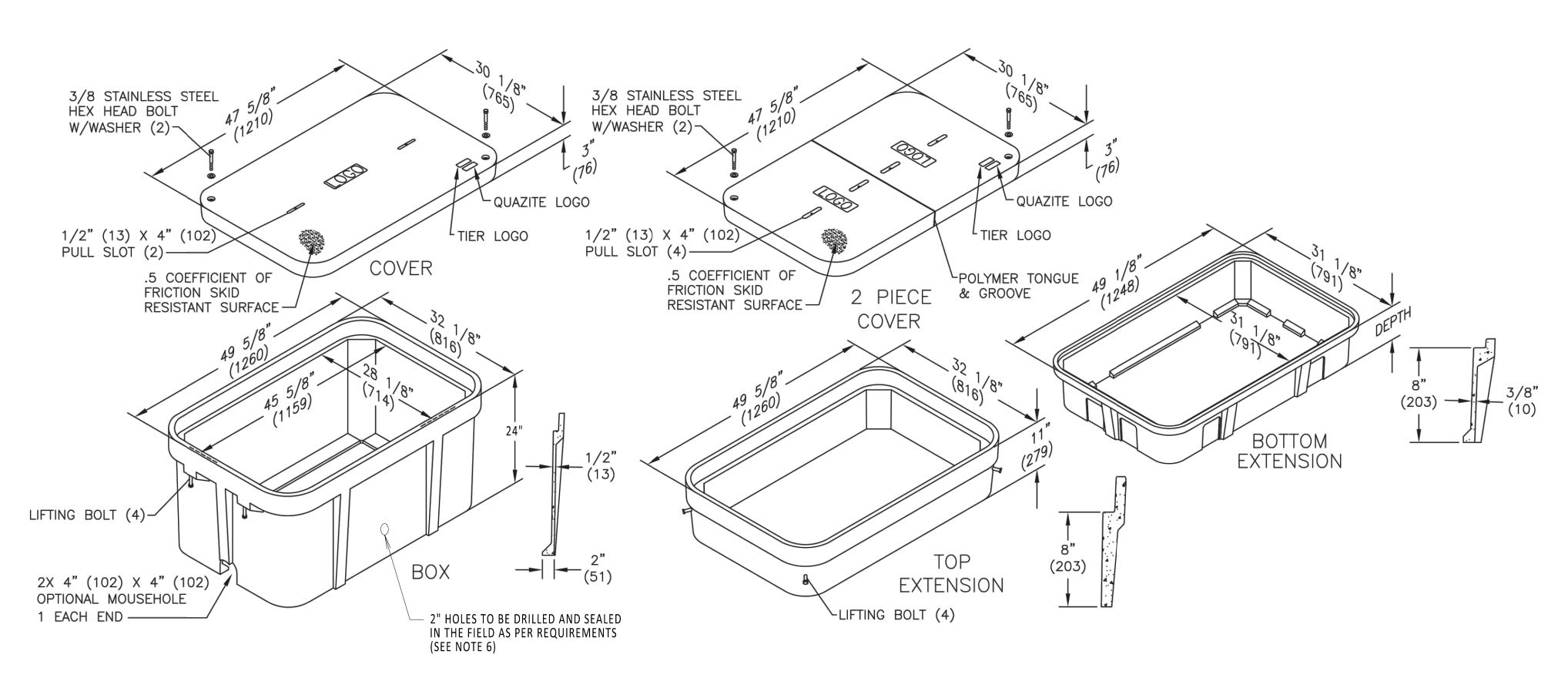
HAND HOLE TOP VIEW NOT TO SCALE

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.

DEEEDENCE	DOCLINAENITO
REFERENCE	DOCUMENTS

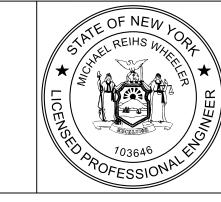
LIST NO.	DOCUMENT NAME	DOCUMENT NO.						
1	TYPICAL OPEN PIT SPLICE DETAILS	C-808						
2	OPEN VAULT w/FIBER OPTIC HAND HOLE	C-853						
3	FIBER OPTIC SPLICE DETAILS	C-855						
4	HUBBELL QUAZITE (HAND HOLE)	MODEL NO. PG3048BA24						



ISOMETRIC VIEW NOT TO SCALE







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
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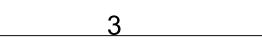
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CHAMPLAIN	HUDSON	POWER	EXPRESS

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

C-854

DATE 0 SH.NO.



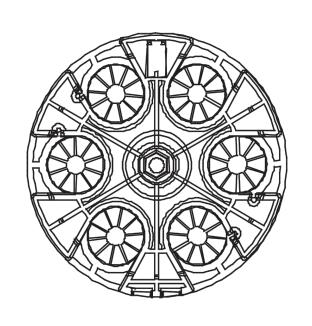
NOTES:

- 1. MAINTAIN 18" SWEEPS ON ALL CONDUITS.
- 2. DTS HUT FIBERS WILL SPLICE TO BLUE TUBE FIBER COLORS BLUE, ORANGE, GREEN AND BROWN.
- 3. SEE REFERENCE DOCUMENTS 2, 3, 4 AND 5 FOR PLACEMENT DETAILS.
- 4. FIBER OPTIC SPLICE CLOSURE ONLY IN SPECIFIC LOCATIONS. SEE PLAN AND PROFILES FOR DETAILS.

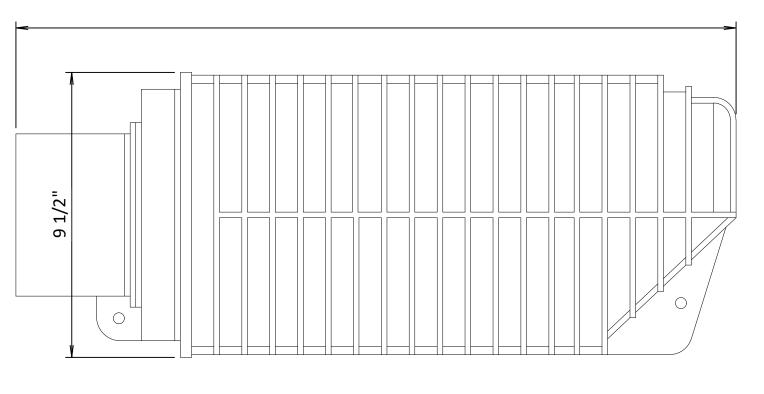
REFERENCE DOCUMENTS						
LIST NO.	DOCUMENT NAME	DOCUMENT NO.				
1	FIBER OPTIC SPLICE CLOSURE	COMMSCOPE: MODEL NO. FOSC450-B6-6-24-1-B3V				
2	TRANSITION VAULT FIBER OPTIC DETAIL	C-850				
3	DTS HUT CONNECTION FIBER OPTIC SPLICE AND HANDHOLE	C-851				
4	ENCLOSED VAULT w/FIBER OPTICS	C-852				
5	OPEN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

FIBER OPTIC SPLICE CLOSURE

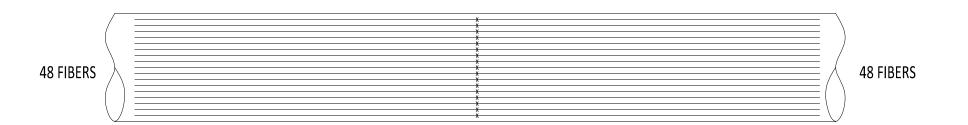
NOT TO SCALE



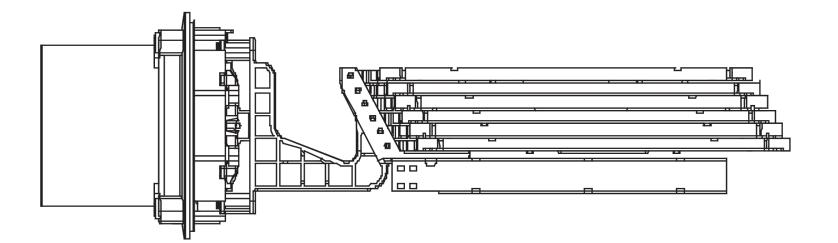
FIBER OPTIC SPLICE CLOSURE GEL-BLOCK PROFILE NOT TO SCALE



FIBER OPTIC SPLICE CLOSURE NOT TO SCALE



FIBER OPTIC CABLE SPLICE DIAGRAM TYPICAL NOT TO SCALE



FIBER OPTIC SPLICE CLOSURE INSIDE DIAGRAM NOT TO SCALE







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					CHAMPLAIN HUDSON POWER EX
					FIBER OPTIC SPLICE DETAILS
0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	1.55	DRAWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO.

CHAMPLAIN HUDSON POWER EXPRESS

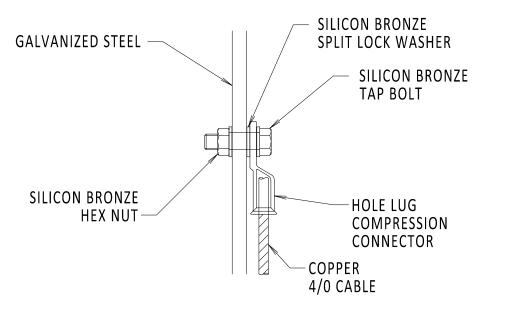
KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

C-855

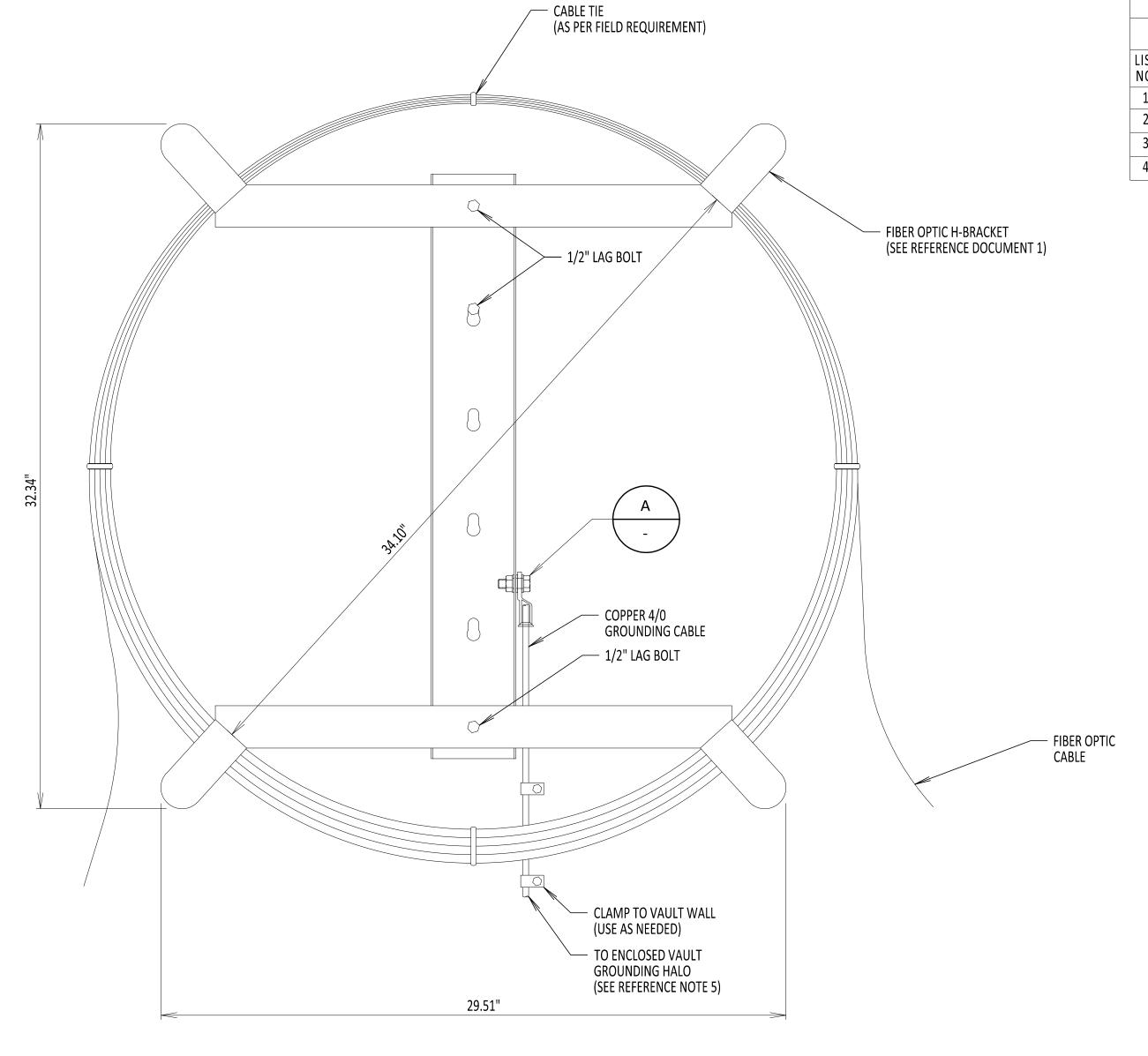
- 1. DO NOT KINK OR TWIST FIBER OPTIC CABLE.
- 2. IN VAULT PULL FROM DISTANT MANHOLE THEN COIL AND PLACE ON H-FRAME BRACKET.
- 3. H-FRAME IS ONLY USED IN ENCLOSED VAULTS. SEE REFERENCE DOCUMENTS 2 AND 3 FOR PLACEMENT DETAILS.
- 4. H-FRAME BRACKET DEPTH IS 4.50".
- 5. H-FRAME BRACKET TO BE GROUNDED TO 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.
- 7. 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

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



DETAIL A NOT TO SCALE



FIBER OPTIC H-FRAME BRACKET NOT TO SCALE







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					FIBER OPTIC H-FRAME BRACKET DE
0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO.
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CHAMPLAIN HUDSON POWER EXPRESS

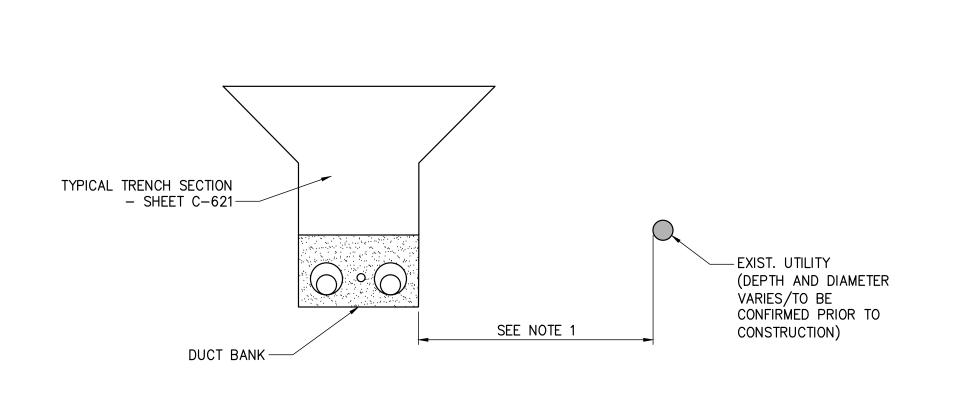
FIBER OPTIC H-FRAME BRACKET DETAIL

21162 CHA PROJECT NO. 066076 DRAWING NO.

KIEWIT PROJECT NO.

C-856

DATE 0 SH.NO.



TYPICAL TRENCH SECTION

— SHEET C-621

EXIST. UTILITY
(DEPTH AND DIAMETER VARIES/TO BE CONFIRMED PRIOR TO CONSTRUCTION)

DUCT BANK

TYPICAL TRENCH SECTION

— SHEET C-621

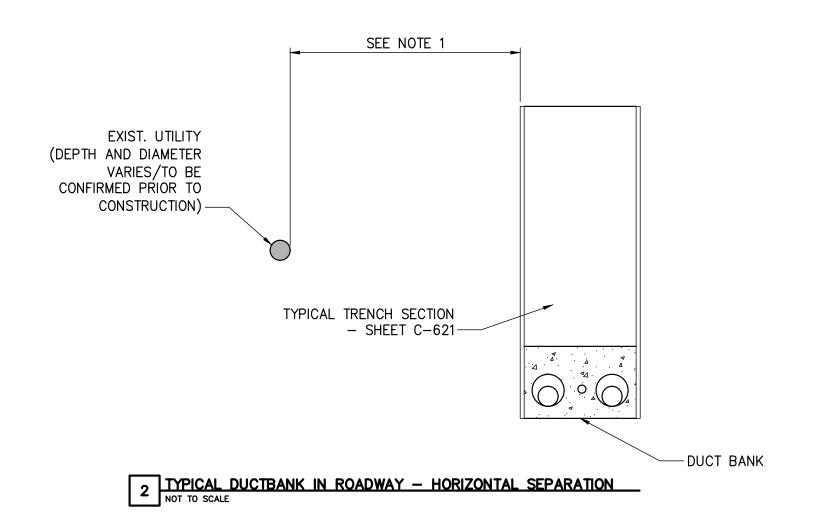
DUCT BANK

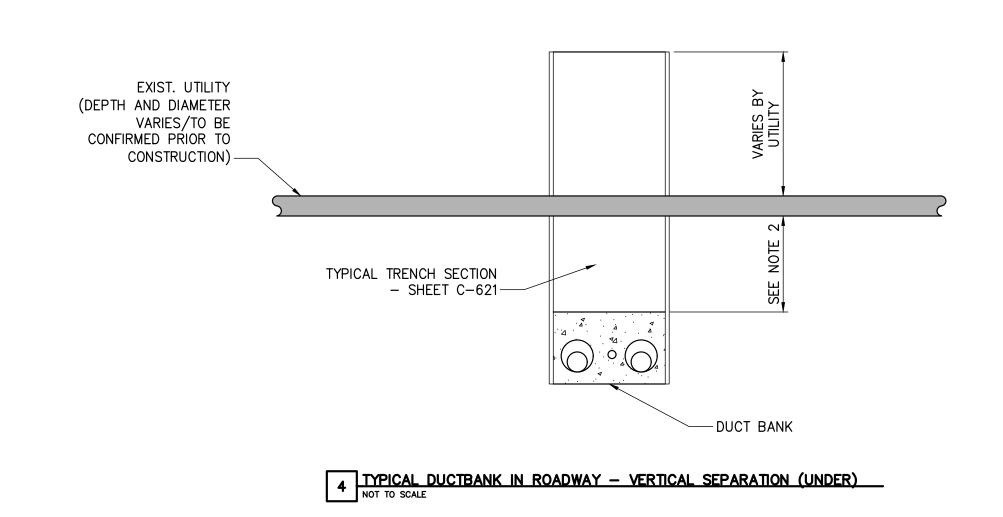
EXIST. UTILITY
(DEPTH AND DIAMETER
VARIES/TO BE
CONFIRMED PRIOR TO
CONSTRUCTION)

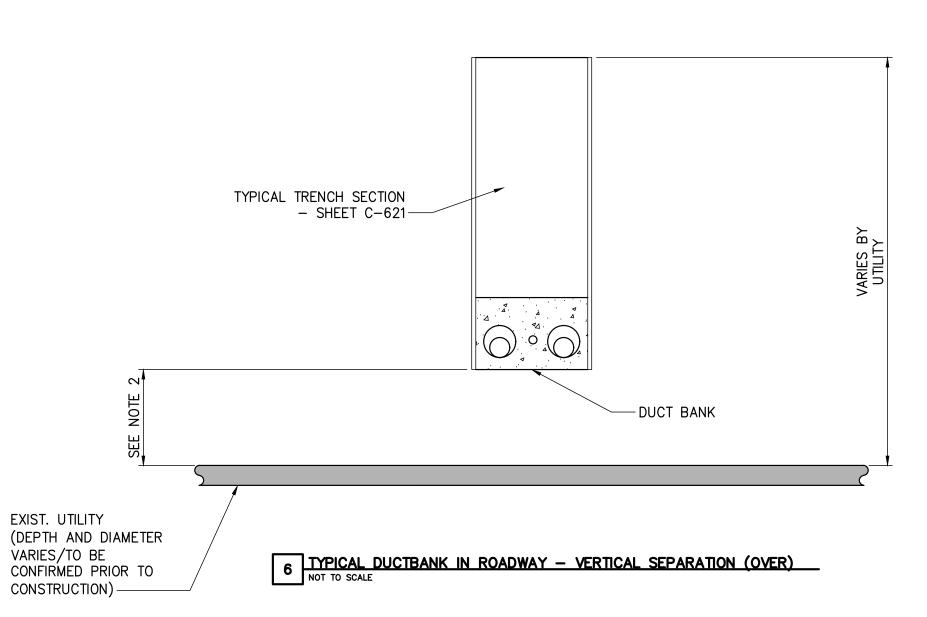
1 OPEN TRENCH - HORIZONTAL SEPARATION
NOT TO SCALE

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

5 OPEN TRENCH - VERTICAL SEPARATION (OVER)
NOT TO SCALE







DB APP DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK REV. NO.

NOTES:

a. 5' MINIMUM HORIZONTAL SEPARATION FOR ALL EXISTING UTILITIES OTHER THAN GAS TRANSMISSION.

b. 10' MINIMUM HORIZONTAL SEPARATION FOR ALL GAS TRANSMISSION ASSETS.

a. 2' MINIMUM VERTICAL SEPARATION FOR ALL EXISTING UTILITIES OTHER THAN GAS.

b. 3' MINIMUM VERTICAL SEPARATION FOR ALL GAS SERVICE CONNECTION ASSETS.c. 5' MINIMUM VERTICAL SEPARATION FOR ALL GAS TRANSMISSION AND DISTRIBUTION ASSETS.

CHPE

Champlain Hudson

Power Express







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					CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL
					UTILITY TYPICAL
					SEPARATION DETAILS
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	

DATE SUBMITTAL / REVISION DESCRIPTION

KIEWIT PROJECT NO.
21162
TT PROJECT NO.
204-3701
DRAWING NO.

C-901

AS SHOWN DATE

06/19/2023 OF