AMENDMENT NO. 2 TO LICENSE AGREEMENT BETWEEN THE CITY OF ALEXANDRIA, VIRGINIA AND CROWN CASTLE FIBER, LLC., DATED NOVEMBER 1, 2022

THIS AMENDMENT amends the License Agreement dated November 1, 2022, between Crown Castle Fiber, LLC. ("Crown Castle") and Licensor, the City of Alexandria, a municipal corporation of the Commonwealth of Virginia ("City").

WHEREAS, on or about November 1, 2022, the City entered into a five-year license agreement with Crown Castle Fiber, LLC. Under the Agreement Crown Castle installed approximately 12 miles of fiber and related equipment in the City's public rights-of-ways to connect its wireless small cell facilities to provide broadband services for its commercial customers. On or about November 2023, City Council approved an amendment to the Agreement allowing Crown Castle to install approximately 400 feet of fiber to a customer at 1737 King Street.; and

WHEREAS, Crown Castle seeks to amend the License Agreement to add an additional 600-foot build to install conduit and fiber optic cable for telecommunications services to 3625 Potomac Avenue for Virginia Tech; and

NOW THEREFORE, in consideration of the premises and mutual covenants contained herein, the Parties agree that:

- 1. Paragraph 1. Definitions, subparagraph (i) "Routes" shall be amended to add an additional sub paragraph () the amended subparagraph shall now read as follows:
- 2. Definitions: (i) The following "Route" has been approved by this Amended Agreement:
 - d. 3625 Potomac Avenue Route (Virginia Tech) shall mean that Crown Castle may perform knockout on an existing handhole on 8 West Reed Avenue and directional bore across the Street and place a 2'x3'x'3 handhole. It shall then directional bore approximately 266' west bound to Commonwealth Avenue heading southbound and place a 2'x3'x3' handhole. It shall then head southbound and directional bore approximately 329' and place a 2'x3'x3' handhole and complete a knockout and existing manhole MH#RS27-21. Outside of 3625 Potomac Avenue Crown Castle shall place 17' of new conduit from the customer's property to a new 2'x3'x3'handhole. As shown on the drawings and map attached hereto as Exhibit 1.
- 3. The remaining terms and conditions of the License Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 to the License Agreement.

CITY OF ALEXANDRIA, a municipal corporation of the Commonwealth of Virginia	CROWN CASTLE FIBER, LLC.		
By:	By: Printed Name and Title:		
Dated:	Dated:		
Approved as to form:			
Karen S. Snow Senior Assistant City Attorney			





S359135-E GLEBE RD AND COMMONWEALTH AVE. PROPOSED FIBER ROUTE ALEXANDRIA, VA

NOVEMBER 9, 2023

INDEX

COVER TYPICALS PLAN

SHEET 00 SHEETS TO1-TO6 SHEET 01-02

PROPOSED-

VICINITY MAP

ace Utility Engineering (SUE) Utility Rating Impact Form

Project Name: __S35313S - E Glebe & Commonwealth Project Location: Alexandria, VA

Analysis Done By: Quvid Brown

Project Scope: __This Build is to provide serioce to 3675 Potomec Ave by building a connection to the Network in the Fiberlight Handhole R8 527-21 & the Crown Castle Hub build 7WAC4COA.

B	Complexity Factor	Low Complexity	Medium Complexity	High Complexity
1	Utility Density	Dense	Denser	Densest
2	Utility Type	Less-Critical	Sub-Critical	Critical
•	Utility Pattern - Parallel Utilities	Simple	Medium	Complex
4	Utility Pattern - Perpendicular Utilities	Simple	Medium	Complex
5	Utility Material	Rigid	Flexible	Brittle
6	Utility Access	Easy	Medium	Restricted
7	Utilky Age	New	Medium	Old
8	Utility Record Quality	Good	Fair	Poor
9	Excavation Depth (inches)	Low	Medium	High
8	Excavation Method	Method A	Method B	Method C
_	Total	1	-	4

SUE Impact Score

CONTACT LIST

DON JONES SUPERVISOR OF DAMAGE PREVENTION

CROWN CASTLE: DONALD CONAWAY (443) 250-1876 NETWORK CONSTRUCTION MANAGER EXPRESS-TEK: DAVID BROWN SR. ENGINEERING MANAGER (540) 752-6691 CHRISTOPHER GOODRICH ENGINEER (540) 752-6691 SHERRY SMITH PERMITTING SPECIALIST (540) 752-6691 CHRISTIAN LABALLE DRAFTER (540) 752-6691

UTILITIES: MESS UTILITY (VA) 24 HOUR NUMBER WILLIAMS PIPE LINE (TRANSCONTINENTAL) EMERGENCY 24 HOUR NUMBER WILLIAM POOLE (703) 368-3255 X2223 1-(800) 257-7777

VIRGINA POWER EMERGENCY 24 HOUR NUMBER CARY DORMAN TRANS. R/W ENCROACHMENT NATURAL CAS:

WASHINGTON GAS EMERGENCY 24 HOUR NUMBER COLONIAL PIPE LINE EMERGENCY 24 HOUR NUMBER

COLUMBIA GAS EMERGENCY 24 HOUR NUMBER VRGARA NATURAL GAS EMERGENCY 24 HOUR NUMBER CITY OF ALEXANDRA

(540) 341-3159 1-(888) 667-3000

(703) 750-5510 (703) 750-1000

(703) 504-5112 (800) 926-2728

(540) 270-0694 (800) 835-7191

1-(877) 572-3342

PERMITTING AGENCIES:

(703) 746-4035

LARRY LOAR

STEVE STIMSON





ISSUED FOR CONSTRUCTION

GENERAL NOTES

GENERAL NOTES:

- ALL WORK WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA, NESC, DOT, RPA, ETC. GENERAL NOTES WILL APPLY TO
- THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
- ALL TRAFFIC CONTROL DEVICES WILL BE IN PLACE PRIOR TO CONSTRUCTION. DEVICES NO LONGER NEEDED WILL BE REMOVED AS QUICKLY AS POSSIBLE.
- 4. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
- 5. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
- NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORK PERIODS.
- 7. NO EQUIPMENT OR MATERIALS MAY BE STORED ON THE SIDEWALK.
- 8. EXCAVATION MATERIAL WILL BE STORED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP DAMEDIATELY.
- 9. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY
- ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE SPECIFICATIONS AND STANDARDS.

EROSION SEDIMENT CONTROL NARRATIVE:

DESCRIPTION:

THIS PROJECT CONSISTS OF THE PROPOSED CONSTRUCTION OF TRENCHING OR DIRECTIONAL BORING FOR THE PURPOSE OF INSTALLING

DATES OF CONSTRUCTION:

CONSTRUCTION ON THE RIGHT OF WAY IS PLANNED TO BE A YEAR ROUND ACTIVITY. SOLS DATA: FOR SOLS MAP AND SOLS INFORMATION PROVIDED.

EROSION SEDIMENTATION CONTROL PROGRAM:

EROSION AND SEMILENTATION CONTROLS SHOWN ARE PROVIDED TO ACCOMMODATE ONSTE DRAWAGE AREAS DURING THE CONSTRUCTION PHASE. ADDITIONAL OR REVISED CONTROLS MAY BE INSTALLED AS DETERMINED NECESSARY. EROSION AND SEMILENTATION CONTROL MEASURES SHALL BE CONSTRUCTED AND MANTANED ACCORDING TO THE STANDARDS AND SECRIFICATIONS IN THE CURRENT WRIGHTA EROSION AND SEDIMENT CONTROL HANDSOOK.

PHASE OF LAND DISTURBING ACTIVITIES:

CONTROLS SHOWN SHALL BE INSTALLED AS THE FIRST ITEM OF CONSTRUCTION AND MAINTAINED FOR CONSTRUCTION ACTIMITES LASTING MORE THAN A ONE DAY SOCIEDLE ALL AREAS NOT TO BE MADEDIANELY BURLT UPON SHALL BE SEEDED FOR TELIFORARY VECTATION, ALL CONTROLS ARE TO REMAIN IN PLACE FOR THE DURATION OF THE JOB, BEMOVAL, REGRADING AND SEEDING OF THE TELIFORARY DIVERSION DRESS WILL BE THE FINAL ACT OF GRADING IN FEQUIPMEN.

SEQUENCE OF CONSTRUCTION:

- PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS
 TRENCHING AND/OR DIRECTIONAL BORING.
 UTILITY INSTALLATION
- 4. FINAL GRADING AND VEGETATION
- 5. REMOVAL OF CONTROLS

MAINTENANCE PROGRAM:

- ALL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPPRINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGE STRUCTURAL MEASURES SHALL BE REPARED MIMEDIATELY TO AVOID DAMAGE TO DOWN STREAM PROPERTIES.
- AS AREAS ARE BROUGHT TO EITHER GRADE OR SUBGRADE THEY SHOULD BE STABILIZED BY EITHER PLACING GRAVEL SUBBASE OR BY SEEDING AS EARLY AS POSSIBLE.
- 3. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAY OF OPERATION.
- 4. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITH IN FIVE (5) DAYS OF COMPLETION OF GRADING.

GENERAL LAND CONSERVATION NOTES:

- NO DISTURBED AREA WILL BE DENUDED FOR MORE THAN SEVEN (7) CALENDAR DAYS UNLESS AUTHORIZED BY THE COUNTY WHERE THE WORK IS TAKING PLACE.
- 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PLACED AS THE FIRST STEP IN GRADING.
- 3. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED. WITHIN FIVE (5) DAYS OF BACKFILL
- 4. ALL TEMPORARY EARTH BERMS, DIVERSION DIGES, SILT DAMS, AND SOIL STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING, STRAW OR HAY IS REQUIRED.
- 5. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PRO-TEGTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED DURING CONSTRUCTION PROCESSS
- 6. ANY DISTURBED AREA NOTE COMPRED BY NOTE 1 ABOVE AND NOT PAVED, SODDED, OR BULLT LIFON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MILLOHED WITH HAY OR STRAW MILLEN AT THE RATE OF TWO (2) TONS PER ACRE AND OVER—SEEDED BY MARCH 13.
- 7. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND ERGOSIO CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF VIRGINIA AND ALL DENIDED AREAS SHALL BE STREAMLED WITH VEGETATION.
- 8. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- 9. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- 10. EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH
- 11. EFFUENT FROM THE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSLY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- 12. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- 13. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- 14. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 13. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MICHIEST THE TRANSPORT OF SEDIMENT BY VEHICLAR TRACKING ONTO THE PAVED SKRACE, WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SKRACE, THE ROAD SKRACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SMEPTING AND TRANSPORTED TO A SEDIMENT CONTROL DESPONSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED. IN THIS MANAGER.

SEEDING SPECIFICATIONS:

NOTE: ALL EARTHEN CONTROLS SHALL BE SEEDED AND MULCHED INDIEDRATELY FOLLOWING INSTALLATION AND ANY SOIL STOCKPILES. SHALL BE STABALIZED WITH TEMPORARY VEGETATION. **TEMPORARY SEEDING:**

- 1. IN HIGHLY ACID SOILS (GH 3.5 AND LOWER) LIME SHALL BE ADDED TO THE SOIL AT A RATE OF TWO (2) TONS OF PILYERIZED LIMESTONE PER ACRE AND WORKED INTO THE TOP 2"-4" OF THE SOIL FERTILIZER SHALL BE APPLIED AT A RATE OF 450 POUNDS PER ACRE OF 10-20-2 OR EQUIVALENT. IT SHALL BE WORKED INTO THE TOP 2"-4" OF THE SOIL
- SURFACE ROUGHENING WHERE SURFACE IS COMPACTED, CRUSTED OR HARDENED IS REQUIRED.
 THE SOR, SURFACE SHALL BE LOOSENED PER SURFACE ROUGHENING IN THE CURRENT
 WRIGHTAL EROSION AND SEDMENT HANDBOOK.
- 3. SEEDING ACCOMPUSHED IN THE FALL OR WINTER, ON SLOPES IN EXCESS OF 4:1, ON ADVERSE SOL CONDITIONS OR EXCESSIVELY HOT OR DRY MEATHER SHALL BE MILLCHED IN ACCORDANCE WITH THE CURRENT WARRIAL EROSION AND SEDIMENT HANDBOOK.
- 4. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATELY TO PREVENT RILL EROSION SHALL BE RESERVED AS SOON AS THEY ARE IDENTIFIED.
- 5. TEMPORARY SEED MIXTURES SHALL BE AS FOLLOWS:
 60 LBS/ACDE CORMAN MILET (SILDMER MONTHS)
 OU LBS/ACDE AMMULA TREGNASS OR 100 LBS/ACDE CEREALE RYE (LATE FALL OR EARLY WINTER)

PERMANENT SEEDING:

- THE DESTRUCTIONS SOIL MUST MEET THE FOLLOWING CRITERIA:

 A. BRUCKH FINE SOIL MUST MEET THE FOLLOWING CRITERIA:

 A. BRUCKH FINE SOIL MUST MEET THE FOLLOWING CRITERIA:

 BRUCKHES THAT SUFFICIENT PORE SPACE IS AVAILABLE.

 C. SUFFICIENT DEPTH OF SOIL TO PROVIDE ADEQUATE ROOT ZONE. THE DEPTH TO ROOK OR DISPERIENTED SHALL SELEZ OR MORE.

 D. A FANORUSEE, BY RANCE OF 8.0—7.0 FOR PLANT GROWTH. IF SOIL TOO ACDIC TO BE MOOTHED TO WITHOUT HAS RANCE, IT IS CONSIDERED AN UNSURFALE ENVIRONMENT FOR
- BOUNT FROM TO THE HIS RANGE, IT IS CONSIDERED AN UNSTRALE EVENDMENT FOR PREZION FROM TOXIC ANOUNTS OF MATERIALS HARRIFUL TO PLANT GROWTH, FREEDOM FROM EXCESSIVE QUANTITIES OF ROOTS, BRANCHES, LARGE STONES, LARGE CLOOS OF EARTH OF TRASH OF ANY KIND.
- IF ANY OF THE CRITERIA CANNOT BE MET THEN TOPSOIL SHALL BE APPLIED IN ACCORDANCE WITH THE CURRENT VIRGOIA EROSION AND SEDIMENT HANDBOOK.
- 2. SURFACES SHALL BE ROUGHENED IN ACCORDANCE WITH THE CURRENT VIRGINIA EROSION
- 3. SOIL CONDITIONERS MAY BE ADDED TO THE SOIL AS DESIRED BUT MUST BE DONE IN ACCORDANCE WITH THE CURRENT VIRGINIA EROSION AND SEDIMENT HANDBOOK.
- 4. LIAE AND FERTILIZER NEEDS SHOULD BE DETERMENED BY SOIL SCIENTISTS FROM QUALIFIED COMMERCIAL LABRORATORY OR THE COOPERATIVE EXTENSION SERVICE SOIL TESTING LABORATORY AT VH & SUI. CENTRAL RECOMMENDATIONS ARE TWO (2) TINS PER ACRE OF AGROULTURAL LIMESTONE ON SANDY SOILS AND THREE (3) TONS PER ACRE ON CLAYEY SOILS WITH 1,200 POUNTIS PER ACRE OF 10-10-10 FERTILIZER.
- 5. SEED MIXTURE SHALL BE 100-120 LBS/ACRE OF TALL FESCUE AND 12 LBS /ACRE ANNUAL RYEGRASS.
- ALL PERMANENT SEEDING SHALL BE MULCHED IMMEDIATELY IN ACCORDANCE WITH THE CURRENT VIRGINIA EROSION AND SECRENT NAMEBOOK.

CONSTRUCTION NOTES:

- 1. NUMBER 6 TRACER WIRE TO BE REQUIRED WITH ALL CABLE PLACEMENT.
- 2. FIBER OPTIC WARNING TAPE WILL BE PLACED 12° BELOW THE EXISTING GRADE IN ALL EXCAVATIONS.
- VERIFICATION OF THE LOCATION OF EIGSTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
- 4. CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY CONSTRUCTION 811
- 5. A 12" SEPARATION BETWEEN PROPOSED CONDUIT AND OTHER UTILITIES WILL BE MAINTAINED.
- CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER
- 7. ALL INSTALL DUCTS WILL BE PROOFED USING A MANDRILL 1/4" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWING.
- 8. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 36".
- 9. MAXIMUM CABLE INSTALLATION TENSION WILL NOT EXCEED 600 POUNDS. A 600 POUND BREAKAWAY SWIVEL WILL BE USED DURING PUBLISH.
- THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO CROWN CASTLE WITHIN 14 DAYS OF COMPLETION OF THE WORK
- 13. CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE.
- 14. PLACE 100 FEET FIBER SLACK COIL IN EACH HANDHOLE MANHOLE.
- 15. HAND DIG UNDER ANY BURIED UTILITY CABLES AS REQUIRED.
- 16. ALL CONDUITS WILL BE PLACED AT A MINIMUM OF 36" COVER.



E GLEBE RD & COMMONWEALTH AVE NOT FOR OUTSIDE DISCLOSURE WITHOUT EXPLICIT PERMISSION FROM FROM CASTLE.

ALEXANDRIA, VA FILE: 18536 ENGINEER: C. GOODRICH

DRAFTER: C. LABALLE

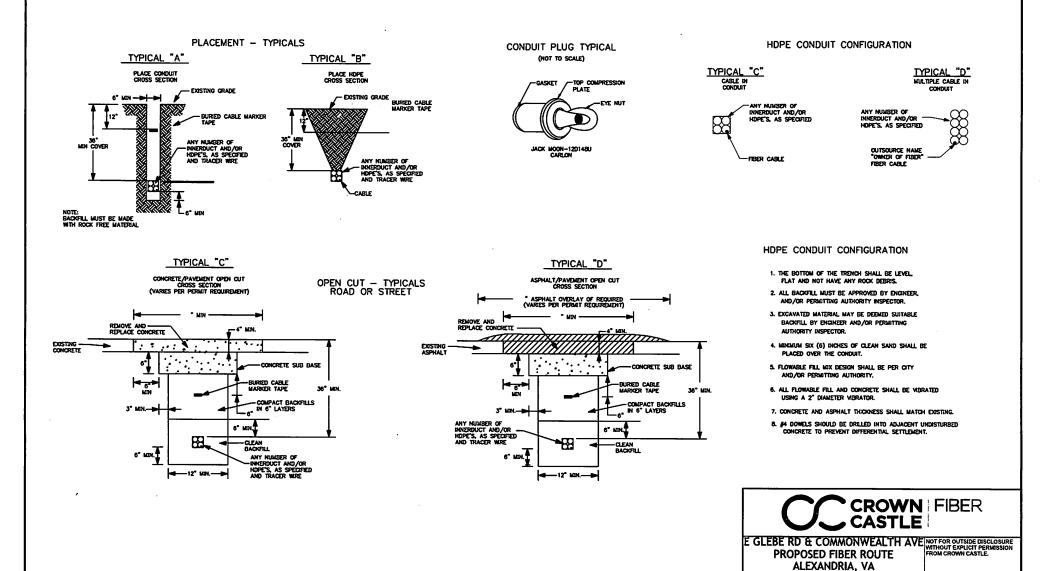
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LEGEND

SYMBOL	DESCRIPTION	LINETYPES AND STATIONING	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION	<u>LINETYPES</u>	DESCRIPTION
(E)	ELECTRIC MANHOLE	0+00 TEXT LINE 1	EXISTING STATIONING		PROPOSED HANDHOLE		
\boxtimes	ELECTRIC TRANSFORMER	0+00 TEXT LINE 1	PROPOSED STATIONING	> -	PROPOSED ANCHOR		FENCE LINE
Δ	PARKING METER		AERIAL CABLE LINE	00	AERIAL SLACK COIL		GUARDRAIL
0-	STREET LIGHT	CATV	CABLE TV	→ ■	SPLICE POINT	+++++++++++++++++++++++++++++++++++++++	RAILROAD
⊠	TRAFFIC CONTROL BOX	E	ELECTRIC LINE	12 % 6.6M	ANCHOR TEXT		SLOPE - TOP
0	TRAFFIC/CROSSWALK SIGNAL		GAS LINE	1.			SLOPE - BOTTOM
- ↓	TRAFFIC SIGNAL	so	SEWER LINE	(100)	PROPOSED SLACK COIL	~~~~~~	woods
Ť	TELEPHONE MANHOLE	==========	STORM DRAIN LINE				PROPOSED UNDERGROUND PULL THRU
	EXISTING TELEPHONE HH		TELEPHONE LINE	Aboress	ADDRESS LABEL		PROPOSED FIBER
(2)	VERIZON MANHOLE	————	TRAFFIC LINE				PROPOSED AERIAL FIBER
>-	ANCHOR	w	WATER LINE	ROAD NAME ROAD MATERAL	ROAD LABEL	FIBER COUNT OVERLASH	PROPOSED AERIAL OVERLASH FIBER
	TELEPHONE PEDESTAL	CSW	CONCRETE SIDE WALK				PROPOSED INNERDUCT W/ FIBER
0	TELE/VZ/PROP POLE	ASW	ASPHALT SIDE WALK	8	RR SIGNAL		DOCUMENT OF CONTRACT OF COMME
\otimes	VZ/TELE/PROP POLE	a	CENTER UNE	Ψ			PROPOSED ISP CONDUIT W/ FIBER
\Leftrightarrow	FIBER MARKER TUBE	EOG	EDGE OF GRAVEL	⊴7	TRACK SWITCH		PROPOSED ISP PULL THRU EXISTING CONDUIT
w	WATER MANHOLE	EOP	EDGE OF PAVEMENT	"_ X	CROSSING ARM	ELEC - ELEC	PROPOSED ISP ELECTRICAL
ø	WATER VALVE	———вос———	BACK OF CURB				PROPOSED ISP GROUND WIRE
	WATER METER	PROP BOC —	PROPOSED BACK OF CURB				
	FIRE HYDRANT	-·-·	PROPERTY LINE	RR MP			EASEMENT LINE
Ø	IRRIGATION VALVE		RIGHT OF WAY	(0)		ABBREVIATION DESCRIPTION	
(3)	SEWER MANHOLE		PROPOSED RIGHT OF WAY	Y	MILE POST	HH HANDHOLE	
0	SEWER CLEANOUT	LVL3	LEVEL - 3		maz rost	MH MANHOLE O/S OFFSET	
0	STORM DRAIN MANHOLE	ZAYO	ZAYO			DB DIRECTIONAL BORE	
	GRATE INLET	MCI	MCI - VERIZON	•		PVC POLY VINYL CHLOR	
	CATCH BASIN	MFN	METRO FIBER NETWORKS	\bigcirc	POLE SEQUENCE CIRCLE	HDPE HISH DENSITY POL INDT INNERDUCT	YETHYLENE
©	GAS MANHOLE	xo	XO COMMUNICATIONS			EMT ELECTRICAL METAL	LIC TUBING
A	GAS VALVE	sig	SUMMIT IG	(XXX)	AERIAL DISTANCE OVAL	CSW CONCRETE SIDEWA	
\boxtimes	GAS TANK	AT&T	TCG-AT&T			ASW ASPHALT SIDEWALI BSW BRICK SIDEWALK	•
₩	UTILITY MANHOLE	QGSI	QWEST		DETAIL CIRCLE	U/K UNKNOWN	
0	TREE	VZN	VERIZON		10		
۵	MAILBOX	α	CROWN CASTLE	<u>HATCHIN</u>	<u>IG</u>		CROWN FIBER
0	TEST PIT	MFS	METROPOLITAN FIBER SYSTEMS	WORK ZONE	CONCRETE		CASTLE
•	PROPERTY PIN		RCN	IXXXI		E GLEBE RD & COMMO	NWEALTH AVE NOT FOR OUTSIDE DISCLOSUR: WITHOUT EXPLICIT PERMISSION FROM CROWN CASTLE.
0	STEEL POST	FBL	FIBERLIGHT	BUILDING EDGE	BRICK		
0	STEEL POLE			BOILDING EDGE		ALEXANDRIA	
σ	SIGN					FILE: 18536 ENGINEER: C. GO REVISION: DATE: 11/0	

BURIED CONSTRUCTION TYPICALS - 1



FILE: 18536 ENGINEER: C. GOODRICH

DATE: 11/09/23

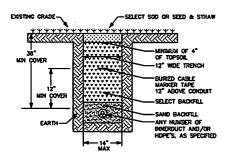
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DRAFTER: C. LABALLE

SHEET: T03 OF T06

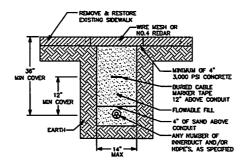
BURIED CONSTRUCTION TYPICALS - 2

SOD /UNIMPROVED AREA TRENCH RESTORATION TYPICAL



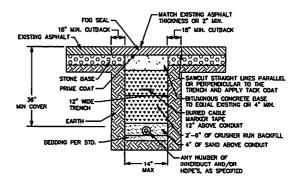
- ALL BACKFILL MUST BE APPROVED BY ENGINEER OR PERMITTING AUTHORITY INSPECTOR.
- 2. EXCAVATED MATERIAL MAY BE DEEMED SUITABLE BACKFILL BY ENGINEER, AND/OR PERMITTING AUTHORITY.
- 3. A MAXXIUM OF EIGHT (6) INCH LIFTS OF BACKFILL MATERIAL WILL BE ALLOWED. FOUR (4) INCHES OF CLEAN SAND SHALL BE PLACED ABOVE THE CONDUIT.
- 4. THE BOTTOM OF THE TRENCH SHALL BE LEVEL, FLAT, AND NOT HAVE ANY ROCK DEBRIS.
- ALL DISTURBED GRASS AREAS ARE TO BE SEEDED WITH KENTUCKY 31 FESCUE WITH NUTRIENTS APPLIED AND MAINTAINED TO ACHIEVE A SATISFACTORY GRASS COVER TO CONTROL EROSION.

SIDEWALK TRENCH RESTORATION TYPICAL



- 1. REMOVE ENTIRE SIDEWALK PANEL, JOINT TO JOINT.
- EXPANSION BOARD SHALL BE PLACED ON ALL EXISTING CONCRETE EDGES.
- FLOWABLE FILL MIX DESIGN SHALL BE PER PERMITTING AUTHORITY SPECIFICATIONS.
- THE NEW CONCRETE SIDEWALK SHALL BE PLACED LEVEL.
 AND FLAT TO MATCH EXISTING.
- 5. THE FINISH SHALL MATCH EXISTING SIDEWALK.
- FOUR (4) INCHES OF CLEAN SAND SHALL BE PLACED OVER THE MULTICELL CONDUIT.
- THE BOTTOM OF THE TRENCH SHALL BE LEVEL, FLAT, AND NOT HAVE ANY ROCK DEBRIS.
- CONCRETE REINFORCEMENT SHALL CONSIST OF WIRE MESH 6"x6"x10 CAUGE WIRE OR NO.4 REBAR PLACED ON 12" CENTERS.
- ALL FLOWABLE FILL AND CONCRETE SHALL BE VIBRATED USING A 2" DIAMETER VIBRATOR.
- 10. CONCRETE SIDEWALK THICKNESS SHALL MATCH EXISTING.

ASPHALT TRENCH RESTORATION TYPICAL



- 1. BITUMINOUS CONCRETE SURFACE SHALL BE PLACED TO A DEPTH EQUAL TO THE EXISTING SURFACE OR 2" MINIMUM. (COARSE SURFACE)
- BITUMINOUS CONCRETE BASE SHALL BE PLACED TO A DEPTH EQUAL TO THE EXISTING PAVEMENT OR 4" MINIMUM. (BC)
- THE TOP 2'-6" OF THE TRENCH BELOW PAVEMENT SHALL BE BACKFILLED WITH CRUSHER RUN.
- 4. ALL ROAD SURFACE EDGES SHALL BE SAWED IN A STRAIGHT LINE.
- SS-1 TACK COAT WILL BE APPLIED AT THE RATE OR 0.1 GAL. PER SQ. YARD OVER THE CONCRETE BASE AND THE EDGES OF THE EXISTING ASPHALT.
- 6. THE ASPHALT PATCH SHALL BE SMOOTH, FLAT AND EVEN WITH EXISTING ASPHALT SURFACE. ALL JOINTS WILL BE SEALED AFTER PAVING.
- 7. FOUR (4) INCHES OF CLEAN SAND SHALL BE PLACED OVER THE CONDUIT.
- a. Bottom of the trench shall be level, a 3° sand bedoing will be placed as required.
- 9. TYPICAL TRENCH WIDTH IS 14".



E GLEBE RD & COMMONWEALTH AVE NOT FOR OUTSIDE DISCLOSURE WITHOUT EXPLICIT PERMISSION FROM CROWN CASTLE.

ALEXANDRIA, VA

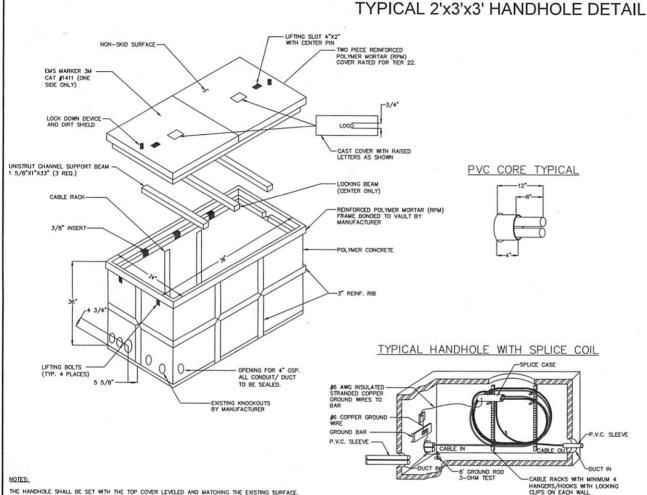
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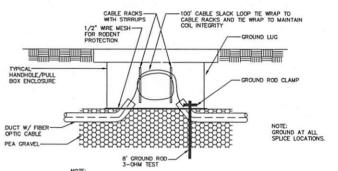
DRAFTER: C. LABALLE

VISION: DA

SHEET: T04 OF T06

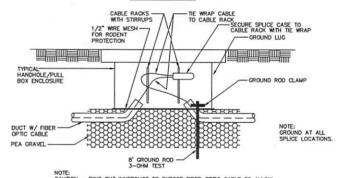


DETAIL-"A"



ROTE:
CAUTION - RING CUT INNERDUCT TO EXPOSE FIBER OPTIC CABLE TO ALLOW
SLACK COIL TO BE PULLED INTO HANDHOLE FOR SPLICING

DETAIL-"B"



CAUTION — RING CUT INNERDUCT TO EXPOSE FIBER OPTIC CABLE TO ALLOW SLACK COIL TO BE PULLED INTO HANDHOLE FOR SPLICING

CROWN FIBER CASTLE

E GLEBE RD & COMMONWEALTH AVE NOT FOR OUTSIDE DISCLOSURE WITHOUT EXPLICIT PERMISSION FROM FROM FOR CONVINCASTLE. ALEXANDRIA, VA

FILE: 18536 ENGINEER: C. GOODRICH

DRAFTER: C. LABALLE DATE: 11/09/23

REVISION:

SHEET: T05 OF T06

THE DESIGN LOADING FOR HANDHOLE IN GRASS SHALL BE CAPABLE OF SUPPORTING H-22 LOADING, PER THE AMERICAN ASSOCIATION OF STATE

HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) OR EQUIVALENT A-12 LOADING FER AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) OR EQUIVALENT TIER 22 LOADING AS DEFINED BY ANS/SCIETY-2007. HANDHOLES IN ROADWAY OR SHARED USE PATHS TO BE CAPABLE OF SUPPORTING H-20 LOADING AND LIDS TO BE ADA COMPULANT.

THE HANDHOLE SHALL BE SET WITH THE TOP COVER LEVELED AND MATCHING THE EXISTING SURFACE.

THE FLOOR OF THE PIT SHALL BE COVERED WITH 10"-12" OF PEA GRAVEL, IN WATER PRONE AREAS 18" OF GRAVEL SHALL BE USED TO IMPROVE DRAINAGE. THE BASE OF THE HANDHOLE/PULL BOX SHALL BE OPEN, AND PLACED IN THE CENTER OF THE PIT.

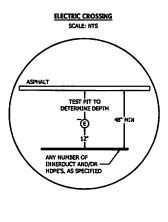
AN 8' LG.X5/8" DIA. COPPER CLAD GROUND ROD SHALL BE DRIVEN INTO THE BOTTOM OF THE HANDHOLE/PULL BOX. A 3-OHM TEST IS REQUIRED. (SEE DETAIL A). A BARE 6" LG. #6 BCW COPPER GROUND WIRE SHALL BE CLAMPED TO THE ROD AND ATTACHED TO THE GROUND LUG ON THE SIDE WALL OF THE HANDHOLE.

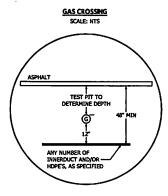
THE DUCT PLACED INTO HANDHOLE WALLS WILL USE APPROVED DUCT TERMINATORS TO SEAL DUCT ENTRANCE.

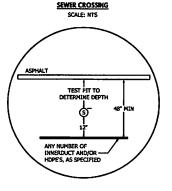
THE ANNULAR SPACE BETWEEN THE DUCT WALL AND THE FIBER OPTIC CABLE SHALL BE SEALED USING A SPLIT PLUG. THE SPLIT PLUG SHALL BE SIZED ACCORDING TO THE OUTSIDE DIAMTER OF THE FIBER OPTIC CABLE AND THE INSIDE DIAMETER OF THE DUCT.

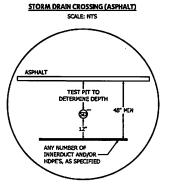
ALL YACANT DUCTS SHALL BE SEALED USING AN EXPANDABLE BLANK DUCT PLUG. THE DUCT PLUG SHALL BE SIZED ACCORDING TO THE INSIDE

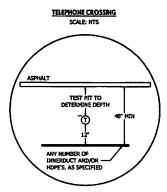
UTILITY CROSSING TYPICAL

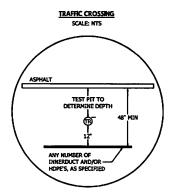


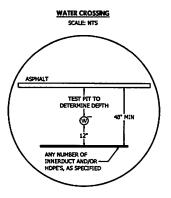


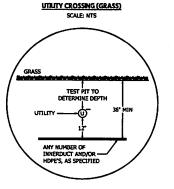














E GLEBE RD & COMMONWEALTH AVE NOT FOR OUTSIDE DISCLOSURE WITHOUT EXPLICIT PERMISSION FROM CROWN CASTLE.

ALEXANDRIA, VA

FILE: 18536 ENGINEER: C. GOODRICH REVISION:

DRAFTER: C. LABALLE DATE: 11/09/23 SHEET: T06 OF T06

