



MPGV-MN-1-22 NGINEER hter here 921 WEST VAN BUREN, SUITE 100 CHICAGO, IL 60607 PHONE: (312) 432-0076 FAX:(312) 432-0231 OF ILLINOIS, DEPARTMENT OF PROFESS REGULATION. LICENSE NO. 184-002308 WNER/DEVELOPER: 📑 gatewayfiber 275 WEST SERVICE RD SUITE O WRIGHT CITY, MO 63390 TITLE: PROPOSED FIBER - OPTIC INSTALLATION - CIVIL DESIGN 65TH PL N & IVES LN N MAPLE GROVE, MN REVISIONS DATE DESCRIPTION BY FOR PERMIT CHECKED BY: DRAWN BY: PPROVED SMD AJR NFJ ROJECT NUMBER: 24-0177 03/19/2025 ATE DRAWN: **A1**

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DESCRIPTION	
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ENGINEER'S ESTIMATE OF MATERIALS (TOTAL)

ITEM



NOTE: CONTRACTOR TO CONTACT MINNESOTA 811 BEFORE DIGGING. (1-800-252-1166)

GENERAL NOTES

DEVELOPER

GATEWAY FIBER KIRK THOELKE 275 WEST SERVICE ROAD, STE O WRIGHT CITY, MO 63390 KIRK.THOELKE@GATEWAYFIBER.COM

PROJECT MANAGER: HBK ENGINEERING, LLC NICK FREERKS

509 S GILBERT ST IOWA CITY, IA 52240 (319) 338-7557 NFREERKS@HBKENGINEERING.COM

SECTION 1.0 SCOPE OF WORK

- CONSTRUCTION OF ALL RELATED APPURTENANCES FOR FIBER OPTIC CABLE INSTALLATION. SEE PLANS FOR EXACT LOCATION, LENGTHS, QUANTITIES, AND DIMENSIONS OF PROPOSED IMPROVEMENTS
- 2. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, JOB SITE DELIVERY COSTS TO COMPLETE THE DESCRIBED, OR ILLUSTRATED WORK, UNDER THIS CONTRACT.
- 3 ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE. DOCUMENTATION CONCERNING ANY AND ALL CHANGE ORDERS WILL BE REDUCED TO FORMAL RECORD, FILED WITH THE OWNER'S REPRESENTATIVE, AND BE MADE AVAILABLE FOR FUTURE REFERENCE
- 4. THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, ANY SUBCONTRACTOR, OR ANY OF THE CONTRACTOR'S OR SUBCONTRACTORS' AGENTS OR EMPLOYEES OR ANY OTHER PERSONS (EXCEPT ENGINEER'S OWN EMPLOYEES) AT THE PROJECT SITE OR OTHERWISE PERFORMING ANY OF THE WORK OF THE PROJECT. ANY CONTRACTOR OR SUB-CONTRACTOR, AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR THEIR OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE ANY CONTRACTOR OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS

SECTION 2.0 MATERIALS

- ALL MATERIALS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH STANDARD RECOMMENDATIONS OF THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION AND AMERICAN NATIONAL STANDARDS INSTITUTE.
- 2. JOB SITE MATERIAL WILL BE DELIVERED TO, AND MAINTAINED AT THE STREET WORK AREAS IN A WELL MANAGED MANNER. TO MINIMIZE CONGESTION OR INCONVENIENCE TO OTHER WORKERS. OR CONTRACTORS WORKING UNDER ALTERNATE PERMITS.

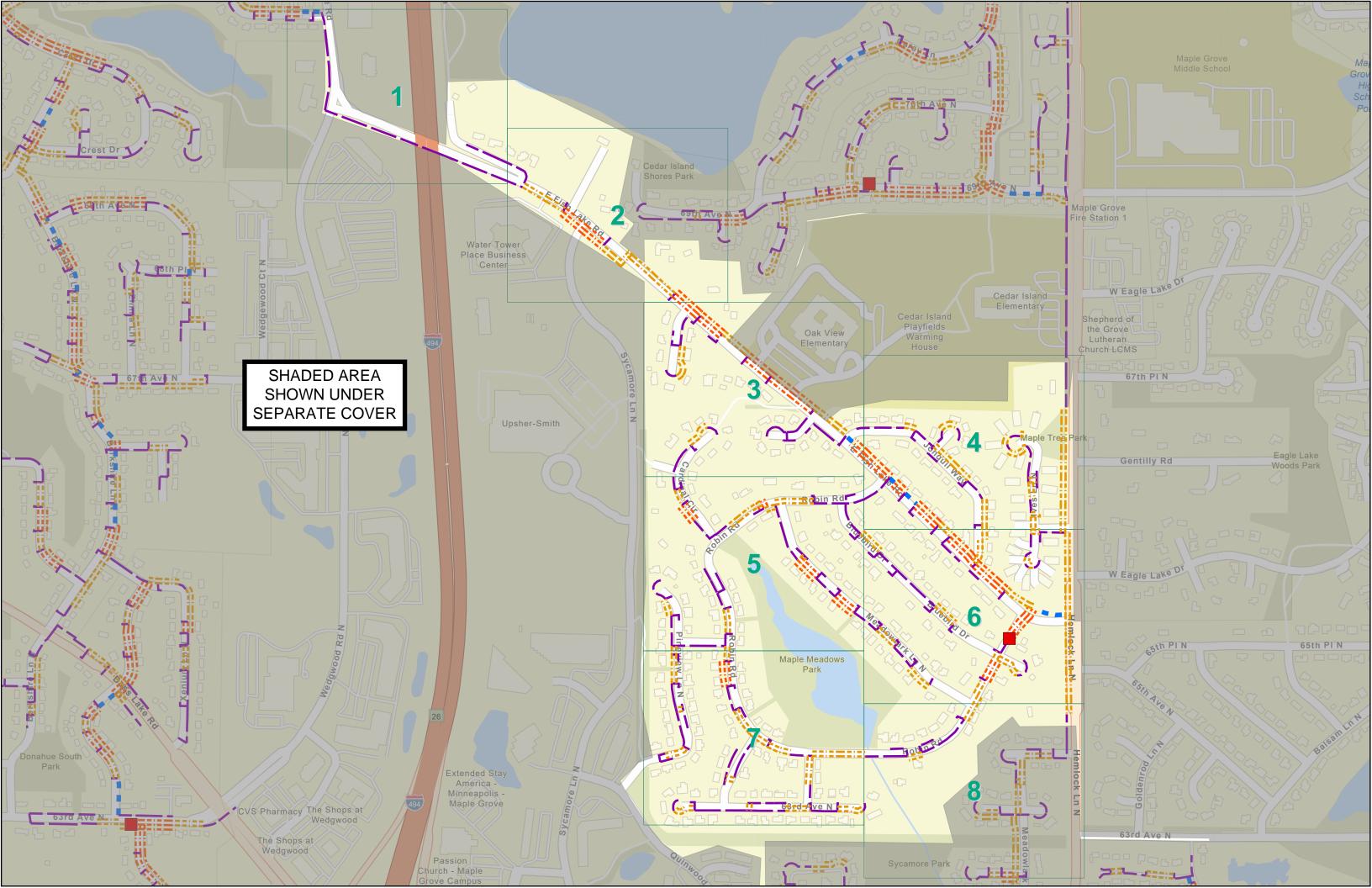
SECTION 3.0 GENERAL NOTES

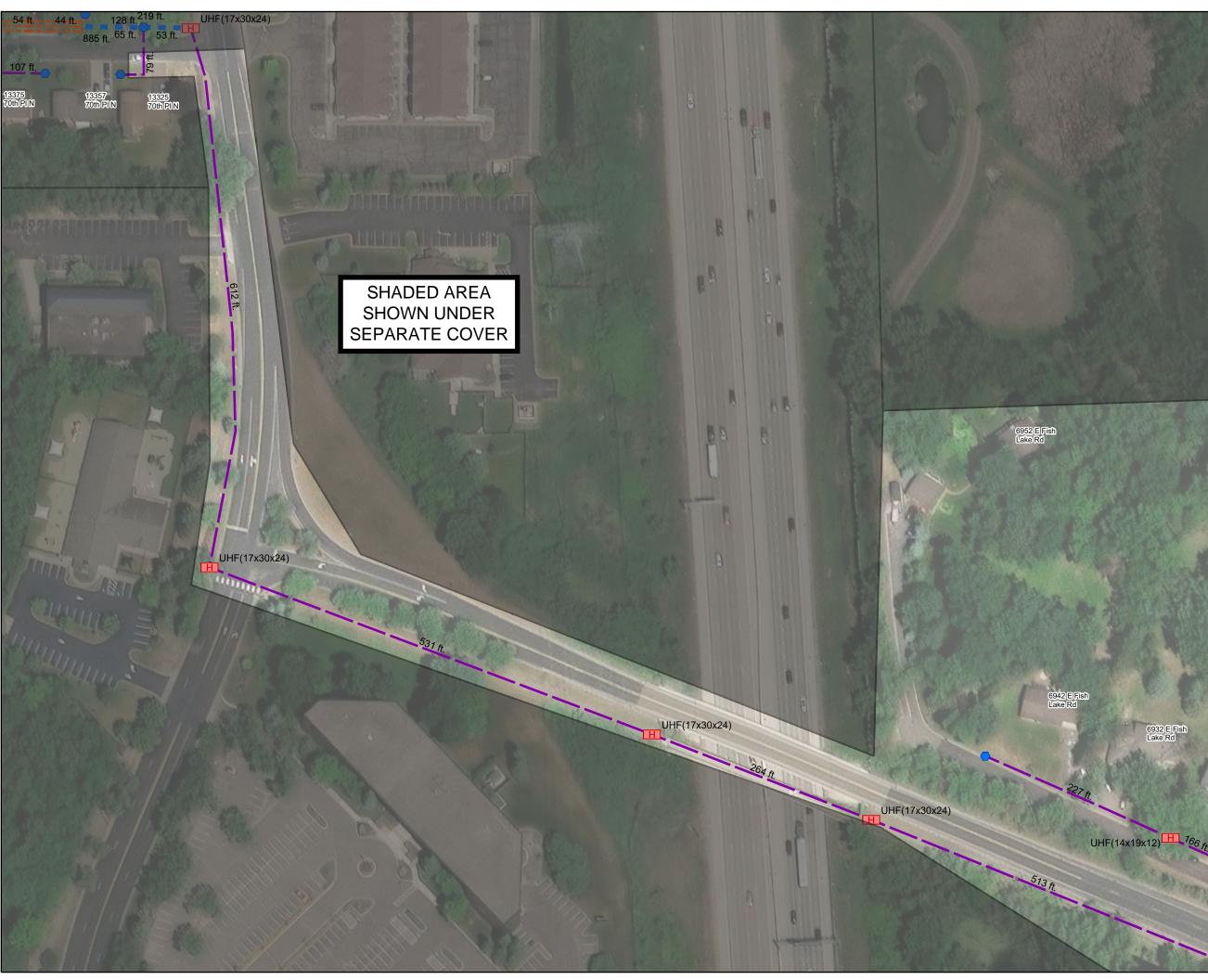
- 1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
- 2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- 4. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS
- 5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS

- 7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK. USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATION ALL PORTION OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- 8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED FIRE CODE APPROVED MATERIALS
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 9 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- 10. DETAILS ARE INTENDED TO SHOW END RESULTS OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUITE JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK
- 11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACE, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF OWNER/DEVELOPER AND AFFECTED PROPERTY OWNER.
- 12. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ADD FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
- 13. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLAT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER
- 14. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ARCHITECT/ENGINEER, II NECESSARY, BEFORE PROCEEDING, PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE
- 15. PLANS ARE NOT BE SCALED AND ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED
- 16. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWING, DIMENSIONS SHOW ARE ESTIMATED AND SHALL BE VERIFIED BY A SURVEYOR OR BY THE CONTRACTOR PRIOR TO CONSTRUCTION
- 17. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION
- 18. CONTRACTOR IS ADVISED TO READ ALL NOTES ON DRAWINGS, CAREFULLY.
- 19. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL OVERHEAD OBSTRUCTIONS PRIOR TO COMMENCEMENT OF WORK.
- 20. THE CONTRACTOR SHALL CONTACT 811 AT 800-252-1166 TO REQUEST LOCATING AND MARKING OF EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION WORK IN OR AROUND ANY UTILITY. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR THE INSTALLATION OF THE NEW UTILITIES AND SHALL COMPLY WITH ALL REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 21. THE CONTRACTOR SHALL VERIFY EXISTING STREET RIGHTS OF WAY TO THE EXTENT NECESSARY TO VERIFY PROPOSED WORK REMAINS WITHIN THESE RIGHTS OF WAY AND DOES NOT INFRINGE ONTO PRIVATE PROPERTY NOT OWNED BY THE OWNER.
- 22. ALL DISCREPANCIES SHOULD BE REPORTED TO HBK ENGINEERING, LLC AT 312-432-0076. ANY QUESTIONS OR COMMENTS THE CONTRACTOR MAY HAVE ARE TO BE DISCUSSED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION COMMENTS.
- 23. FURTHER, THE CONTRACTOR SHALL RECORD THE LOCATION/ELEVATION OF ALL UTILITIES ENCOUNTERED AND NEW INSTALLATIONS AS THE WORK PROGRESSES. CONTRACTOR TO PREPARE RECORD DRAWINGS (RED-LINES) BASED ON THEIR RECORDS. THESE RECORDS TO BE SUPPLIED TO HBK ENGINEERING, LLC AND GATEWAY AT COMPLETION OF WOR
- 24. SCALE FOR DRAWINGS IS FOR GENERAL INFORMATION ONLY. LOCATIONS AND DIMENSIONS SHALL BE EN AS SHOWN AND THE DRAWINGS SHALL NOT BE SCALED
- 25. THE CONTRACTOR SHALL HAVE ALL PERMITS ONSITE AND COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE WORK AND SHALL COORDINATE THEIR WORK WITH THE WORK PERFORMED BY OTHERS.
- 26. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.
- 27. CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT UTILITIES, PEDESTRIANS, WORKERS AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCES BARRICADES, ETC. AS REQUIRED TO PROTECT ADJACENT PROPERTY AND THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- 28. THE CONTRACTOR SHALL INSTALL AND DESIGN WOODEN PASSAGEWAYS TO DIVERT THE GENERAL PUBLIC AROUND THE CONSTRUCTION SITE IN A SAFE AND ORDERLY MANNER. AS REQUIRED
- 29. NO STORAGE OF EQUIPMENT OR MATERIALS IN THE ROADWAY IS PERMITTED UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE CITY, STATE, AND/OR GOVERNING BODY

- 30. CONTRACTOR SHALL ASSUME ALL CABLES ARE ENERGIZED AND SHALL BE SUPPORTED SO AS NOT TO RESS ANY PORTION OF THE CABL
- 31. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL TEMPORARY UTILITY SUPPORT SYSTEMS PRIOR TO CONSTRUCTION
- 32. CONTRACTOR TO TREE TRIM AS NECESSARY AROUND POLES. 33. MAKE READY INDICATES EXISTING FIBER CABLES NEED ADJUSTMENTS IN ORDER FOR NEW FIBER CABLE TO MEET REQUIRED CODES OR CLEARANCES.
- 34. INSTALL A 50' SLACK MAINTENANCE LOOP EVERY 1000' AT STRATEGIC LOCATIONS TO BE DETERMINED IN THE FIELD PRIORITIZING LOCATIONS NEAR MAJOR ROAD CROSSING, WATERWAYS AND RAILROAD
- 35. CONTRACTOR TO INSTALL FIBER IN GENERAL UTILITY EASEMENTS ONLY. FIBER LINES MAY CROSS, BUT NO STRUCTURES TO BE PLACED WITHIN SANITARY SEWER, GAS PIPELINE, WATER, DRAINAGE, OR MUTUAL ACCESS EASEMENTS
- 36. OUTDOOR CABINETS SHALL BE GROUNDED PER THE MANUFACTURER'S RECOMMENDATIONS AND PER ANSI/TIA-607B OR LATEST STANDARD
- 37. CONTRACTOR TO REFERENCE GATEWAY FIBER OPERATIONS HANDBOOK MOST RECENT REVISION FOR ONSTRUCTION SPECIFICATIONS
- 38. THE CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES IN THE FIELD AND CALL 811 PRIOR TO PERFORMING ANY WORK.
- 39. EXISTING UTILITIES SHOWN REPRESENT ASCE QUALITY LEVEL D STANDARDS BASED ON AVAILABLE ATLAS DATA AT THE TIME.
- 40. FLOWER POT LOCATIONS SHOWN IN PRIVATE PROPERTY FOR CONTRACTOR REFERENCE ONLY. NO NSTALLATIONS ARE TO OCCUR WITHIN PRIVATE PROPERT







HBK Engineering

Sheet: B1 of B8

County: Hennepin

MPGV-MN-01-22

As of: 3/18/2025

Legend



FlowerPot

Handhole

Civil Pathway

- ---- Proposed, BM60(1) (1.25)
- Proposed, BM60(3) (1.25)
- Proposed, BM60(4) (1.25)

6932 E Fish Lake Rd

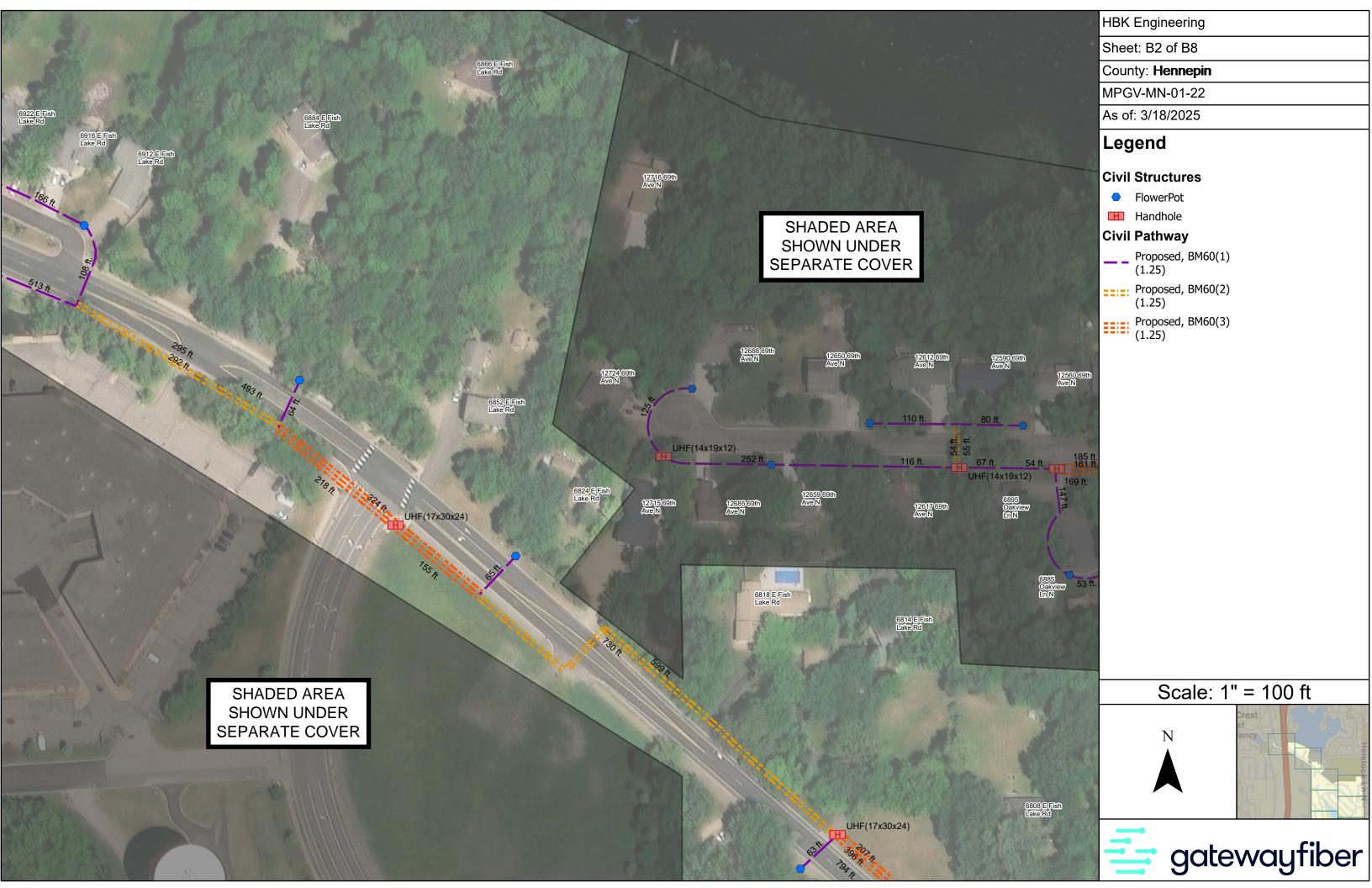
Scale: 1" = 100 ft

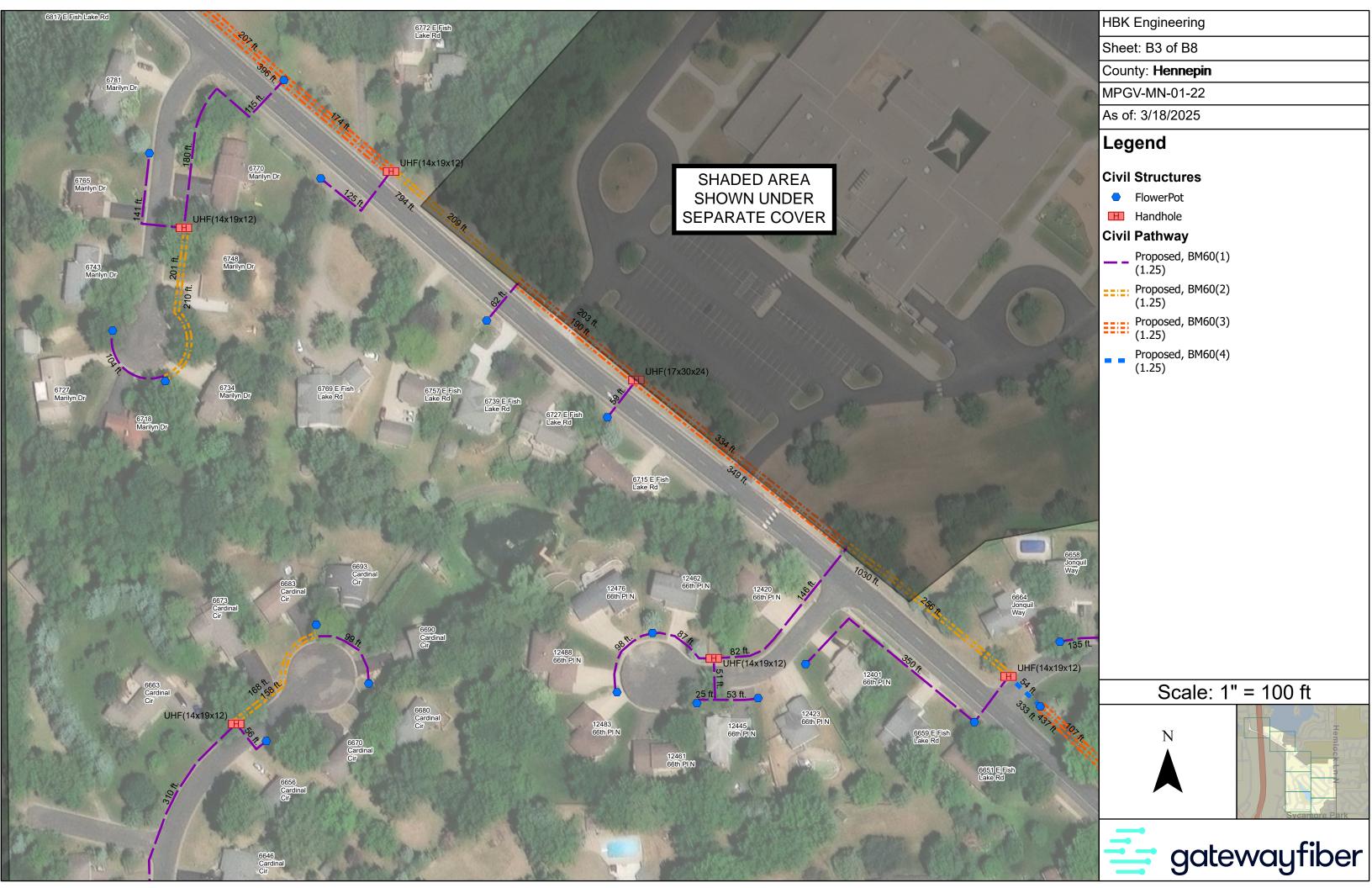


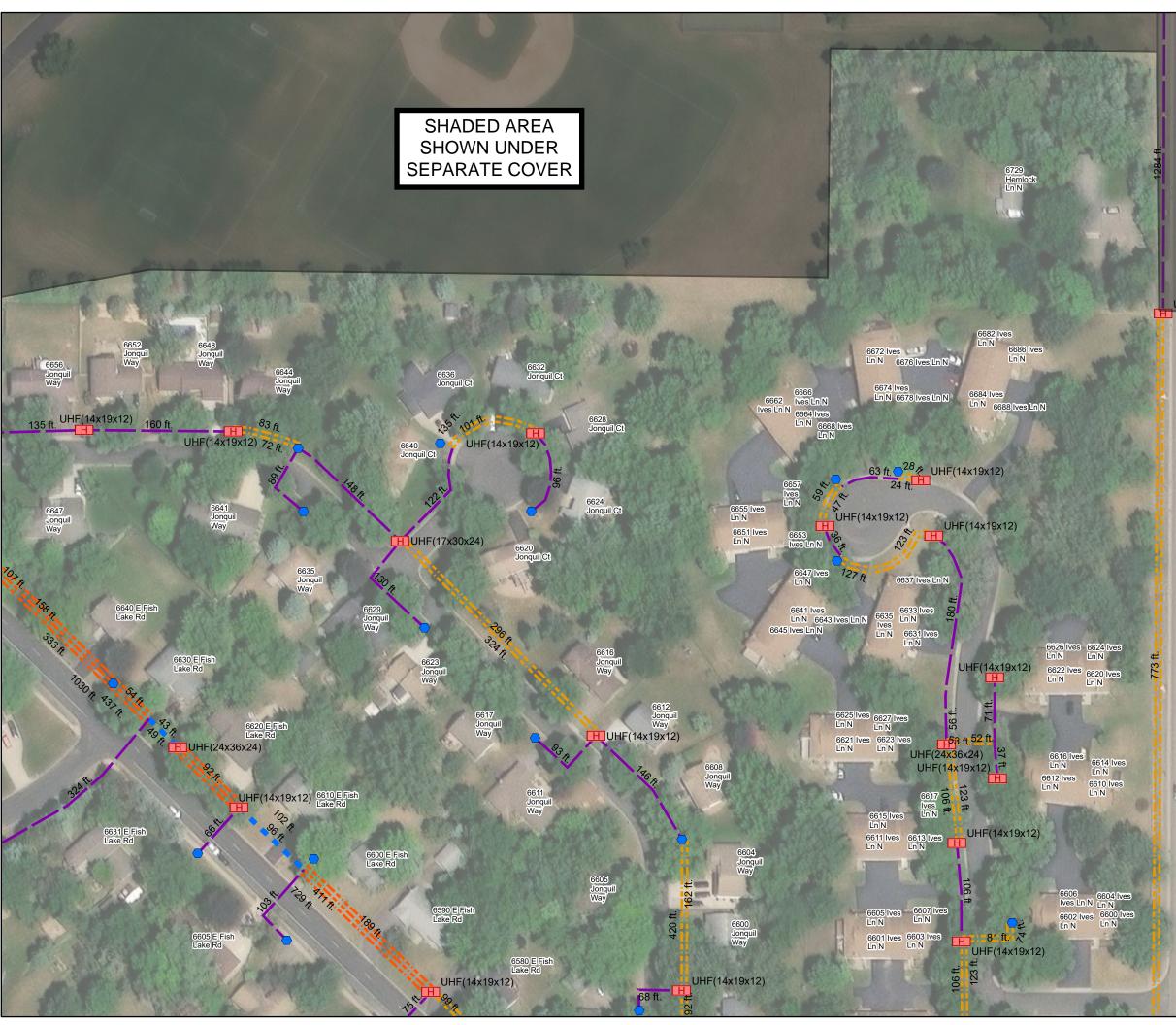


Cedar

Island







HBK Engineering

Sheet: B4 of B8

County: Hennepin

MPGV-MN-01-22

As of: 3/18/2025

Legend

Civil Structures

FlowerPot

Handhole

Civil Pathway

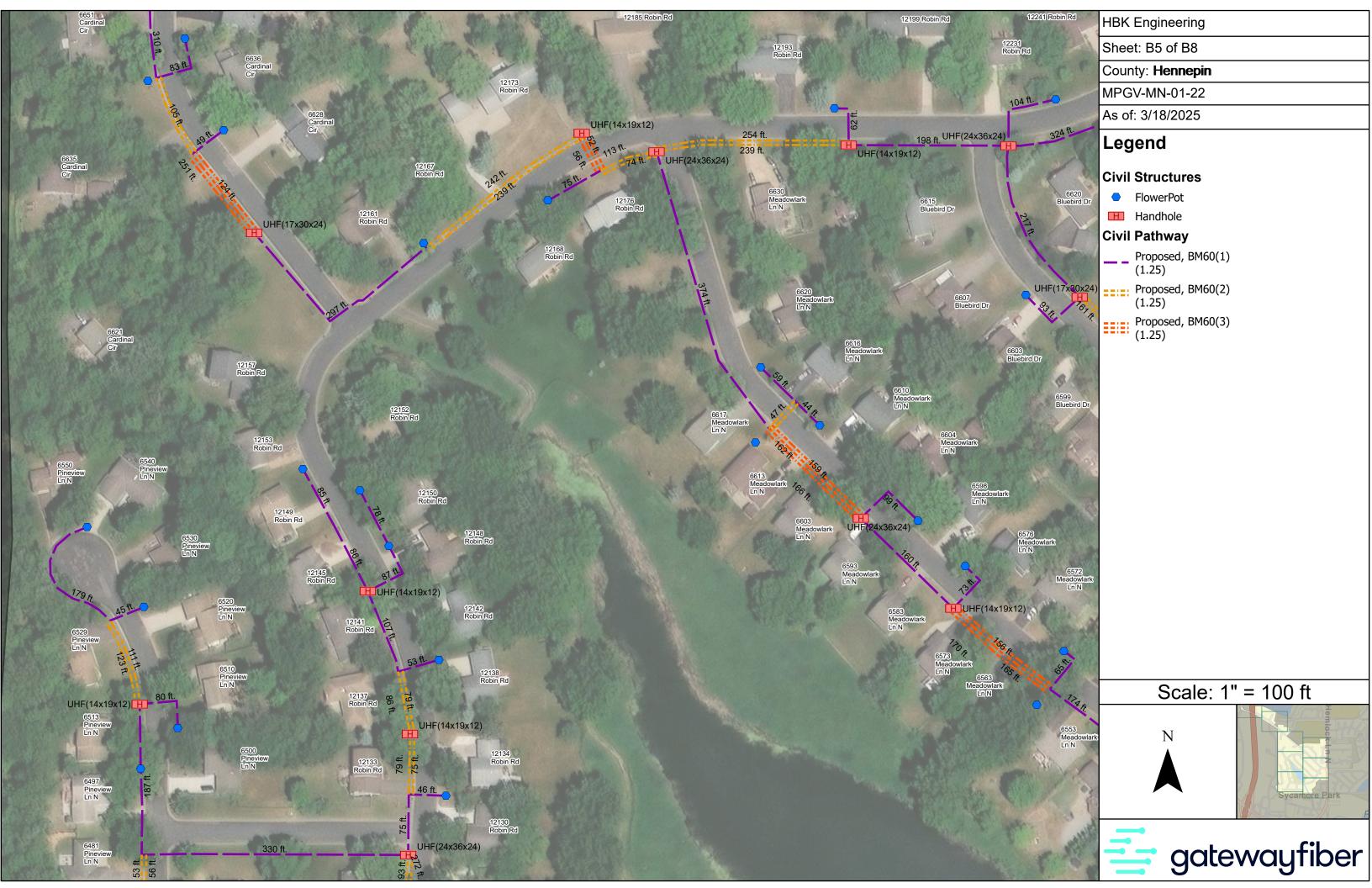
UHF(17x30x24)

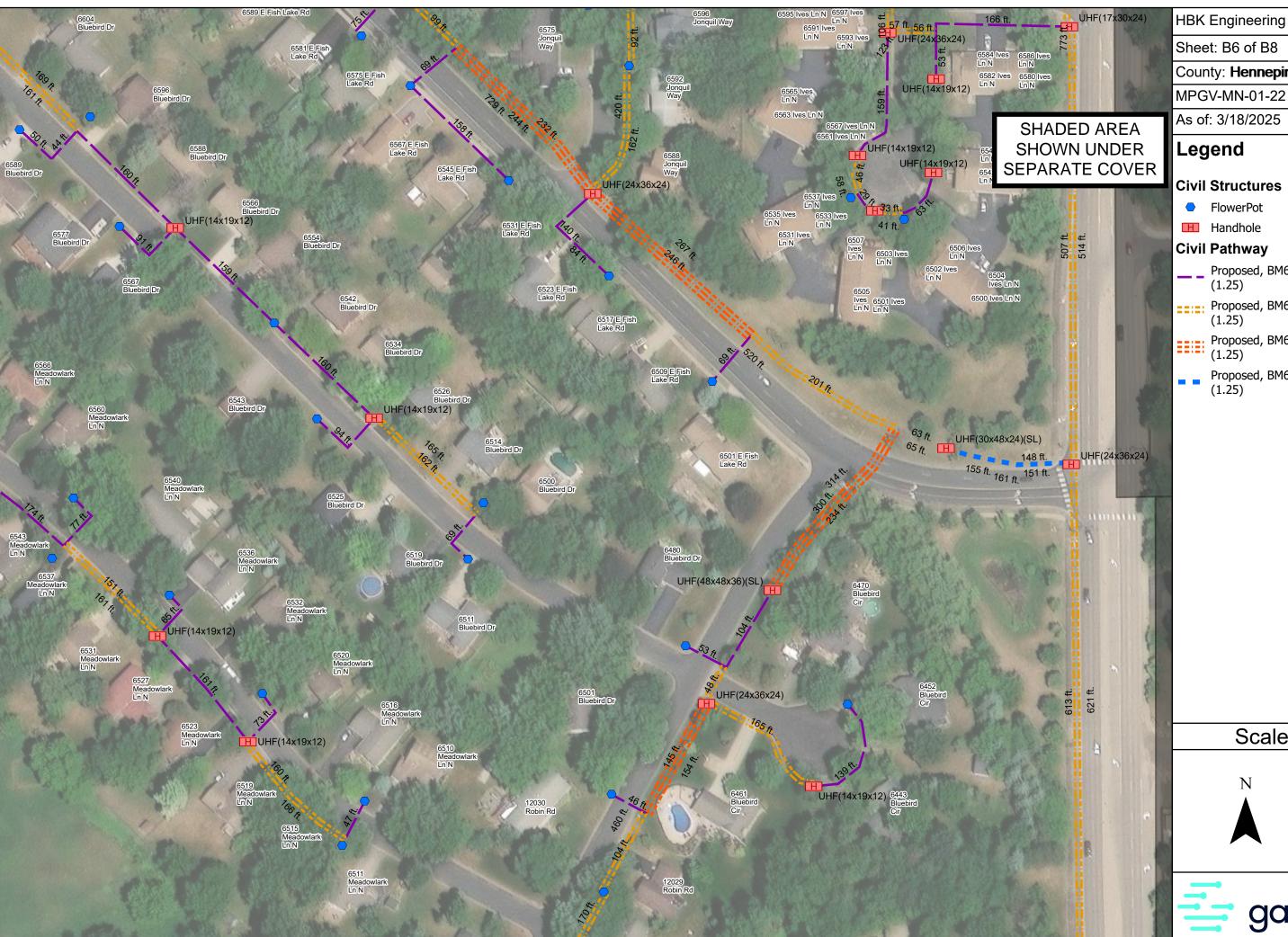
- Proposed, BM60(1) (1.25)
- Proposed, BM60(2) (1.25)
- Proposed, BM60(3) (1.25)
- Proposed, BM60(4) (1.25)

Scale: 1" = 100 ft

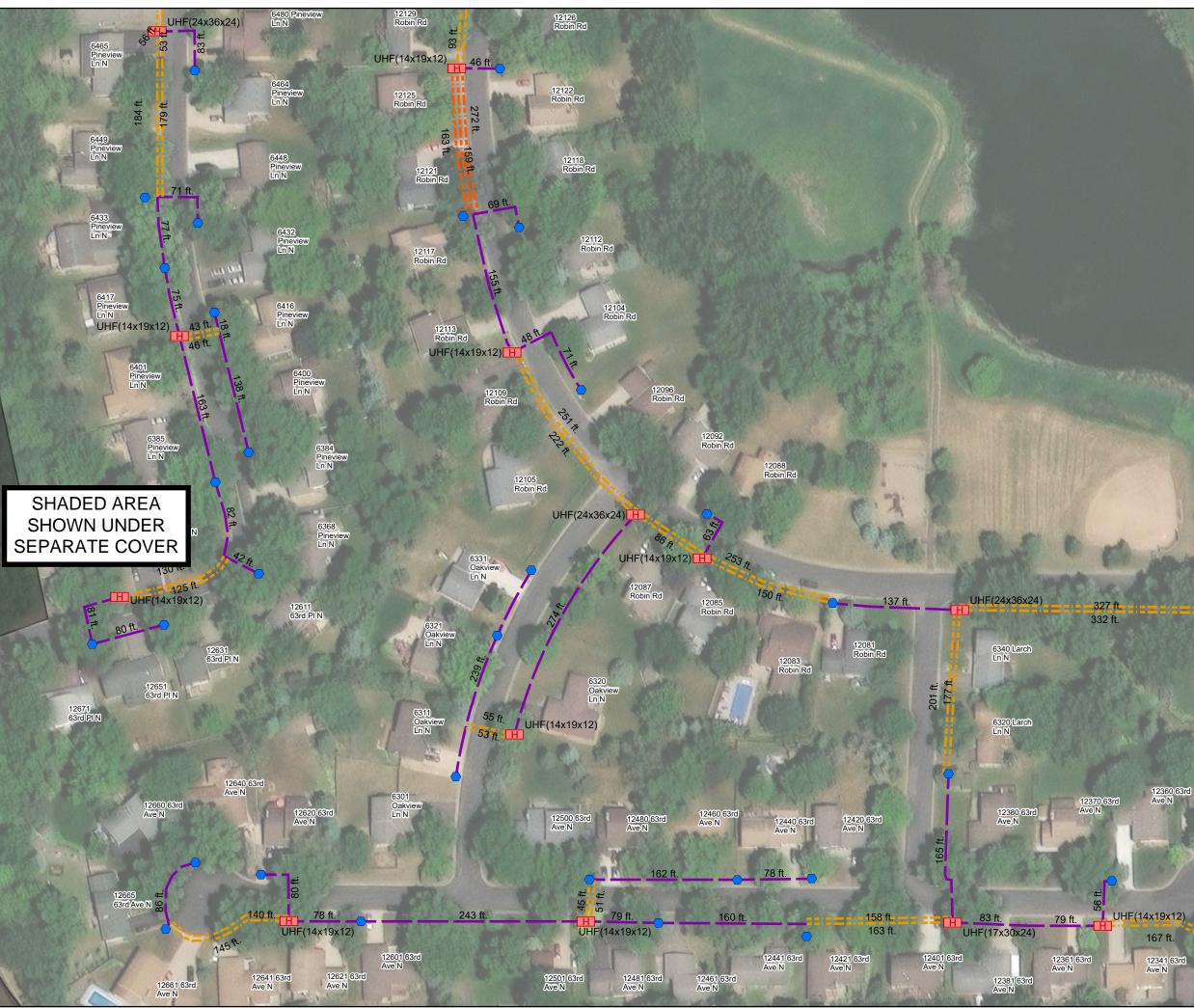


gatewayfiber





(24)	HBK Engineering						
	Sheet: B6 of B8						
	County: Hennepin						
	MPGV-MN-01-22						
A	As of: 3/18/2025						
R /ER	Legend						
	Civil Structures						
	FlowerPot						
	Handhole						
	Civil Pathway						
	Proposed, BM60(1) (1.25)						
	Proposed, BM60(2) (1.25)						
	Proposed, BM60(3) (1.25)						
	Proposed, BM60(4) (1.25)						
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	Sycamore Park						
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5	📑 gatewayfiber						





Sheet: B7 of B8

County: Hennepin

MPGV-MN-01-22

As of: 3/18/2025

Legend



FlowerPot

Handhole

Civil Pathway

- Proposed, BM60(1) (1.25)
- Proposed, BM60(2) (1.25) = = : =
- Proposed, BM60(3) (1.25)

12067

12350 63rd Ave N

12321 63rd Ave N

12360 63rd Ave N

167 ft. 167 ft.

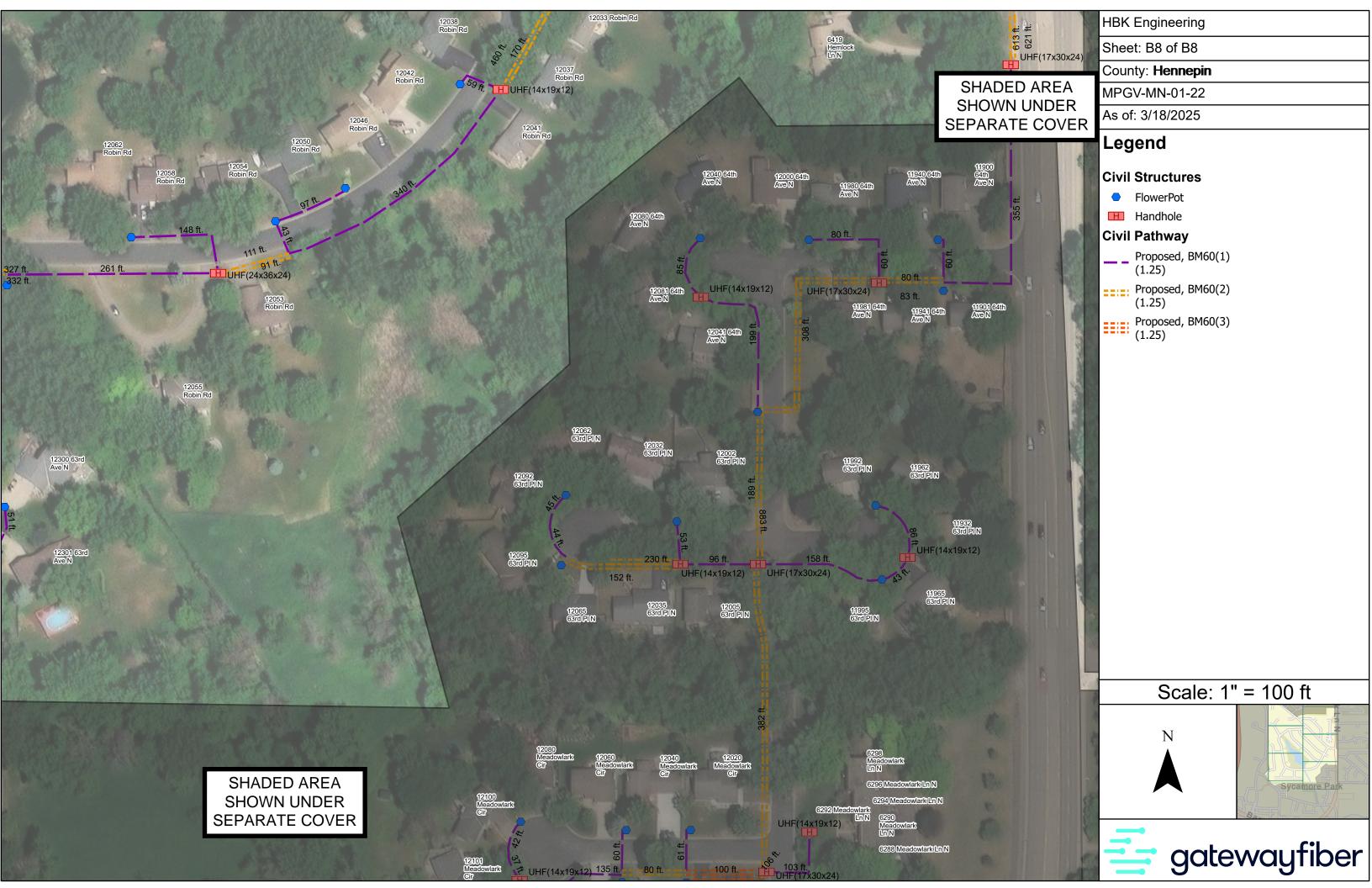
12341 63rd Ave N

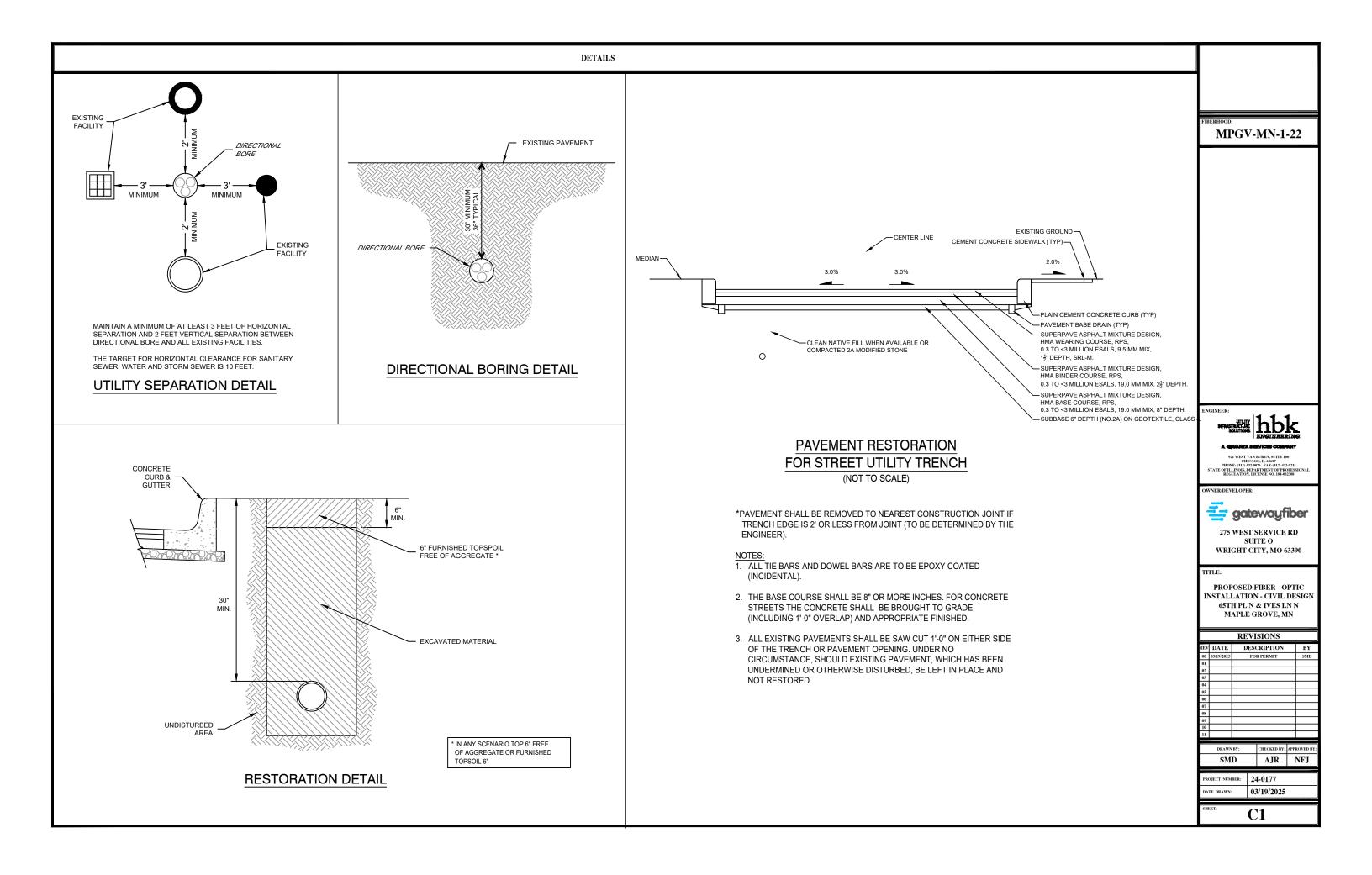
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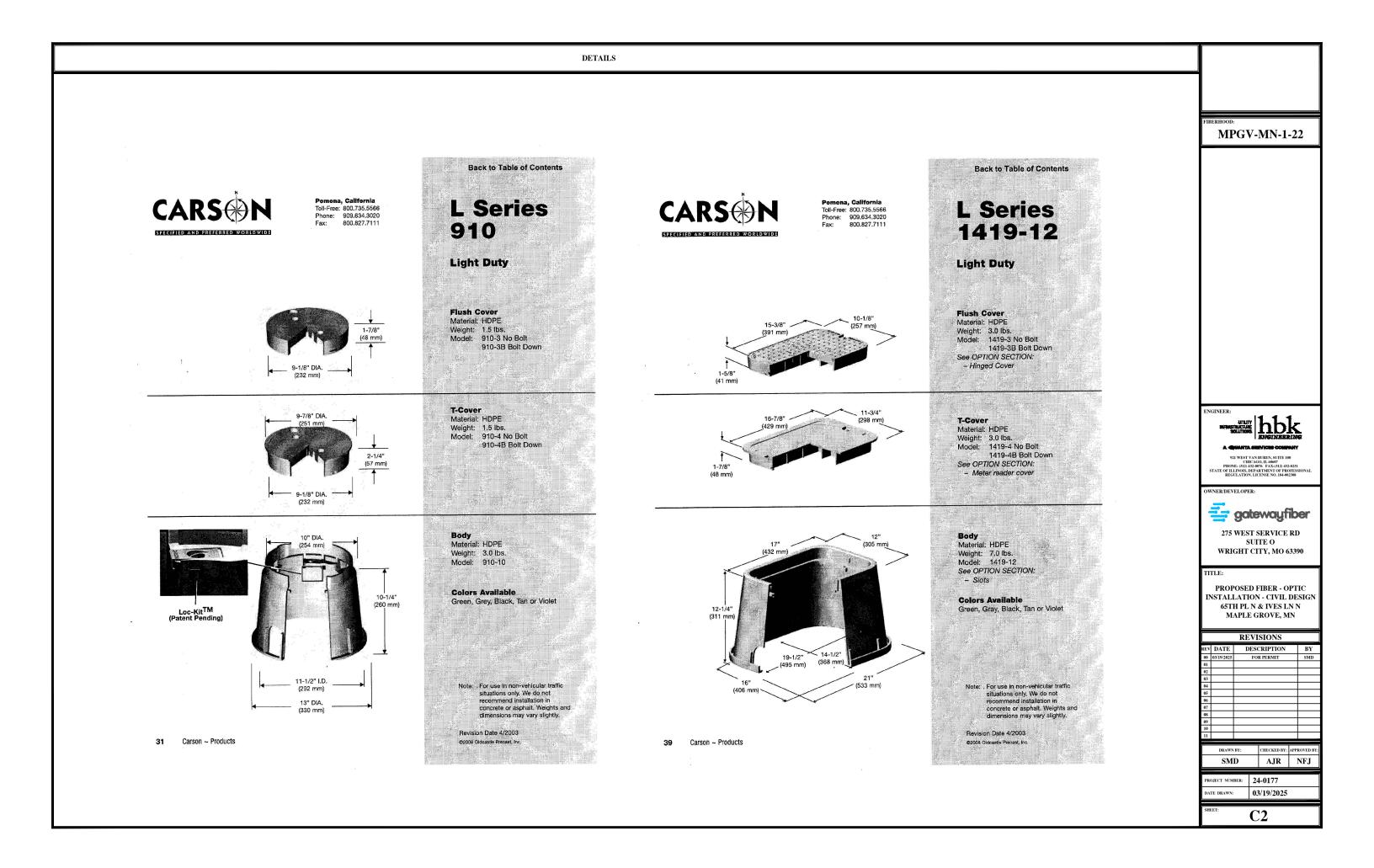


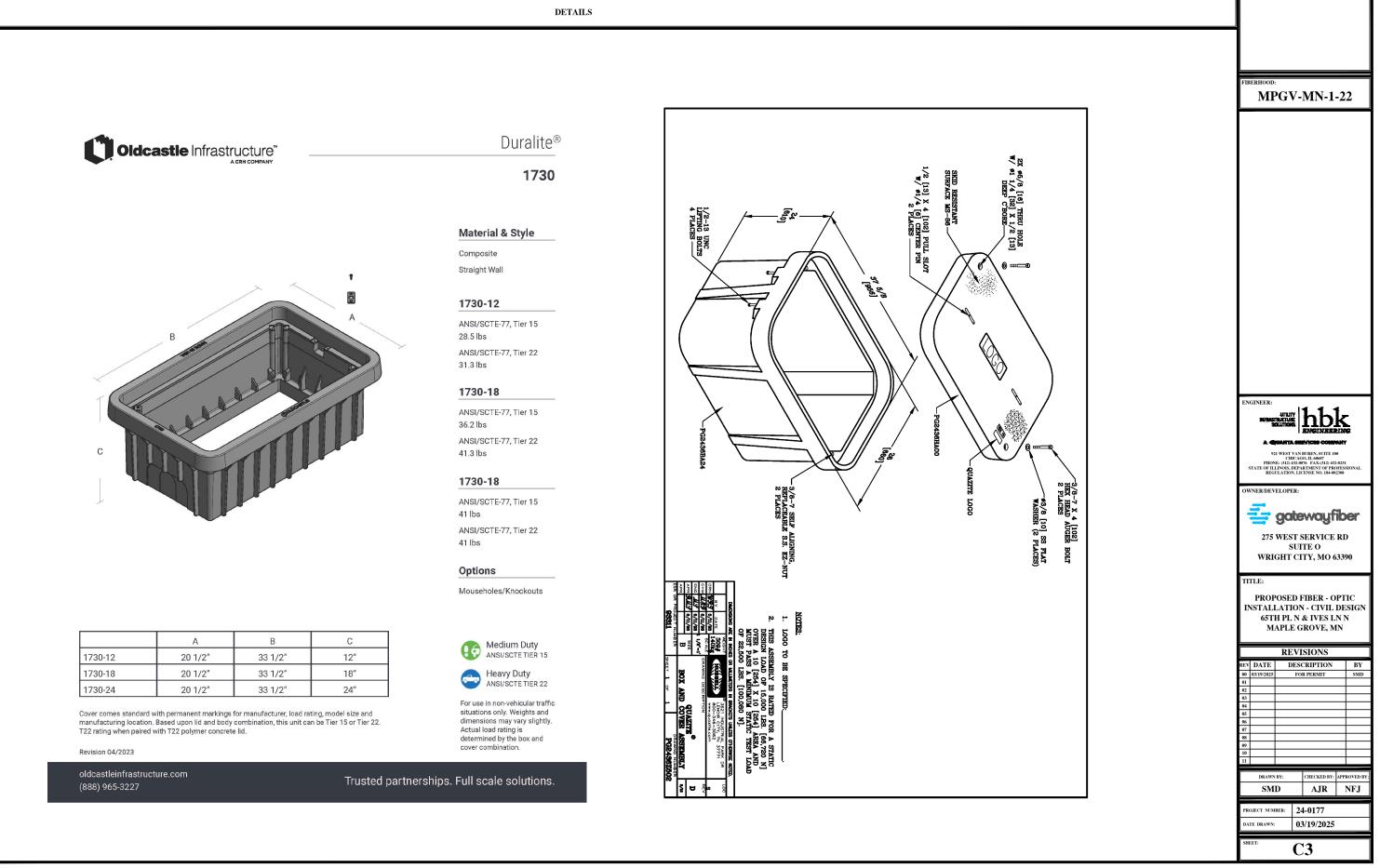


Syca









DETAILS

Nuazite

SPECIFICATIONS/DATA

30" x 48" PG Style (Stackable) Assembly 30" x 48" PD Style (Nestable) Assembly

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD	ANSI TIER	 Covers with meter lids available upon request. Gasketed covers and bolt
W/2 Bolts	PG3048CA00	159 (72.1 kg)	8,000 / 12,000	8	grommets must be used with a gasketed box. Gaskets
Gasketed w/2 Bolts	PG3048CG00	159 (72.1 kg)	8,000 / 12,000	8	reduce the inflow of
No Bolts	PG3048W/A00	159 (72.1 kg)	8,000 / 12,000	8	fluids but do not make the
Heavy Duty w/2 Bolts	PG3048HA00	206 (93.4 kg)	15,000 / 22,500	15	enclosure water tight.
Gasketed Heavy Duty w/2 Bolts	PG3048HG00	206 (93.4 kg)	15,000 / 22,500	15	*Loadings for HH covers comply with all test provisior
Extra Heavy Duty w/2 Bolts	PG3048HH00	220 (99.7 kg)	22,500 / 33,750	15*	of ANSI/SCTE 77 except the
2-piece w/2 Bolts	PG3048CS00	181 (82.1 kg)	8,000 / 12,000	8	the vertical design load is
Heavy Duty 2-piece w/2 Bolts	PG3048HS00	206 (93.4 kg)	15,000 / 22,500	15	22,500 lbs. with a test load of
2-piece Overlapping	PG3048CC00	227 (103.0 kg)	8,000 / 12,000	8	33,750 lbs. over a 10" x 20"
Heavy Duty 2-piece Overlapping	PG3048HC00	234 (106.1 kg)	15,000 / 22,500	15	plate.

PG Boxes (Stackable with self-aligning, replaceable EZ-Nut) '24" & 36" deep boxes must be used as bottom of any stack

DESCRIPTION		PART NO.	WEIGHT #	DIMENSION A	DIMENSION B	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom		PG3048BA18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
	*	PG3048BA24	236 (107.0 kg)	24" (609 mm)	21" (533 mm)	22,500 / 33,750	15**
	*	PG3048BA36	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Open Bottom w/		PG3048BG18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
Gasket		PG3048BG24	236 (107.0 kg)	24" (609 mm)	21" (533 mm)	22,500 / 33,750	15**
	*	PG3048BG36	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Open Bottom w/		PG3048BB18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
2 Mouseholes	٩	PG3048BB24	236 (107.0 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
		PG3048BB36 †	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Solid Bottom		PG3048DA18	220 (99.8 kg)	18 1/2" (470 mm)	15" (381 mm)	22,500 / 33,750	15**
	*	PG3048DA24	287 (130.2 kg)	24 1/2" (622 mm)	21" (533 mm)	22,500 / 33,750	15**
	*	PG3048DA36	394 (178.7 kg)	36 1/2" (927 mm)	33" (838 mm)	22,500 / 33,750	15**
) Solid Bottom w/		PG3048DG18	220 (99.8 kg)	18 1/2" (470 mm)	15" (381 mm)	22,500 / 33,750	15**
Gasket	*	PG3048DG24	287 (130.2 kg)	24 1/2" (622 mm)	21" (533 mm)	22,500 / 33,750	15**
	×	PG3048DG36	394 (178.7 kg)	36 1/2" (927 mm)	33" (838 mm)	22,500 / 33,750	15**

PG3048BB36 is not UL Listed.
 ** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

PD Boxes (Nestable)

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION C	DIMENSION D	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PD3048BA24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
	PD3048BA48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**
Open Bottom w/	PD3048BG24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
Gasket	PD3048BG48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**
Open Bottom w/	PD3048BB24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
2 Mouseholes	PD3048BB48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**

** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.							
TOP Extension (For use on top of PG and PD boxes of any depth)							
DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD #	ANSI TIER			
Open Bottom*	PG3048EA11	100 (45.4 kg)	22,500 / 33,750	15**			

epon Bottom	1 000 100, (11	iss (isi ing)	11,000 / 00,100	
* In addition, this extens	ion can be used as a bot	ttom extension for 18	" deep PG boxes.	

** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

	Bottom Extensions (For use under 18" deep PG style box only, one per box)									
	DESCRIPTION	PART NO.	WEIGHT #	DIMENSION E	DIMENSION F	DESIGN/TEST LOAD #	ANSI TIER			
	Open Bottom	PG3048EA08	102 (46.3 kg)	8 3/4" (222 mm)	1" (25 mm)	22,500 / 33,750	15*			
	Solid Bottom	PG3048RA08	151 (58.0 kg)	9 1/4" (235 mm)	N/A	22,500 / 33,750	15*			
-	* Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.									

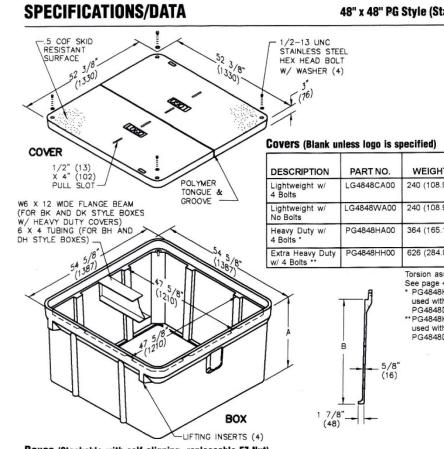
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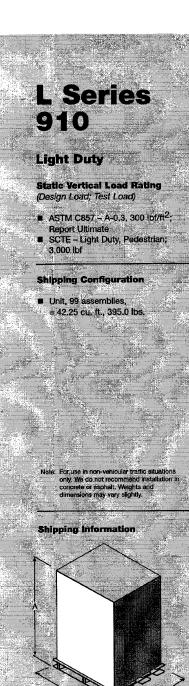
Dimensions & weights in parentheses are metric equivalent.

DRAWINGS

JULY 2006



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SPECIFICATIONS/DA	AIA .		48" x 48	" PG Style (Stack	able) Assembly	
T.5 COF SKID	~	- 1/2-1	3 UNC			
RESISTANT	50	CTAIN	ESS STEEL EAD BOLT			
18	52 (13)	3/8- W/W	ASHER (4)			
52 3/0 (1330)		V	5 (6)			
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No an		3/1				
	\mathbf{i}	Covers	(Blank unless logo	is snecified)		
COVER	X	Utitis			DESIGN/TEST	
1/2" (13) X 4" (102)	/	DESCRI	PTION PART N	IO. WEIGHT #	LOAD#	
PULL SLOT	POLYMER \ TONGUE &	Lightweig 4 Bolts	ht w/ LG4848C	A00 240 (108.9 kg	5,000 / 7,500	
W6 X 12 WIDE FLANGE BEAM (FOR BK AND DK STYLE BOXES	GROOVE -	Lightweig	ht w/ LG4848W	/A00 240 (108.9 kg	5,000 / 7,500	
W/ HEAVY DUTY COVERS) 6 X 4 TUBING (FOR BH AND		No Bolts	uty w/ PG4848H	A00 364 (165.1 kg	15,000 / 22,568	
DH STYLE BOXES)		Heavy D 4 Bolts *	uty w/ PG4646H	AUU 364 (165.1 kg	15,000 7 22,308	
5/8	54 5	/8" Extra He w/ 4 Bolt	avy Duty PG4848H	H00 626 (284.0 kg) 22,568 / 33,852	ENGINEER:
5(1387)					covers are available.	
	5/8-		R) cover must be	ENGINEERING
			T	PG4848DK		A QUANTA SERVICES COMPANY 921 WEST VAN BUREN, SUITE 100
					0 cover must be her PG4848BH or	921 WEST VAN BUREN, SUTTE 100 CHICAGO, IL 60607 PHONE: (312) 432-0076 FAX:(312) 432-0231 STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL
47,5/0			в	PG4848DH	oxes.	REGULATION. LICENSE NO. 184-002308
				5/8"		OWNER/DEVELOPER:
				(16)		🔁 gatewayfiber
			1 7/8"			275 WEST SERVICE RD SUITE O
AL V		OX	1 7/8"			WRIGHT CITY, MO 63390
Poyos (Stackable with cold allow	LIFTING INSE					TITLE:
Boxes (Stackable with self-align	ling, replaceabl	e cz-nut)	DIMENSION	DIMENSION	DESIGN/TEST	
DESCRIPTION	PART NO.	WEIGHT #	A	B	LOAD#	PROPOSED FIBER - OPTIC INSTALLATION - CIVIL DESIGN
Open bottom (Beam pocket but no	PG4848BA36	588 (267.7 kg)	36" (914 mm)	33" (838 mm)	8,000 / 12,000	65TH PL N & IVES LN N MAPLE GROVE, MN
beam provided)	PG4848BA48	763 (346.1 kg)	48" (1219 mm)	45" (1143 mm)	8,000 / 12,000	
Open Bottom, Heavy Duty, w/	PG4848BK36	665 (301.6 kg)	36" (914 mm)	33" (838 mm)	15,000 / 22,568	REVISIONS
W6 x 12 Wide Flange Beam * Open Bottom, Heavy Duty, w/ **	PG4848BK48 PG4848BH36	840 (381.0 kg) 665 (301.6 kg)	48" (1219 mm) 36" (914 mm)	45" (1143 mm) 33" (838 mm)	15,000 / 22,568 22,568 / 33,852	REV DATE DESCRIPTION BY 00 03/19/2025 FOR PERMIT SMD
6 x 4 Tubing **	PG4848BH48	840 (381.0 kg)	48" (1219 mm)	45" (1143 mm)	22,568 / 33,852	01 02 02 02 02 02 02 02 02 02 02 02 02 02
Solid Bottom (Beam pocket but no	PG4848DA36	685 (310.7 kg)	36 1/2" (927 mm)	33" (838 mm)	8,000 / 12,000	03 04
beam provided)	PG4848DA48	860 (390.1 kg)	48 1/2" (1232 mm)	45" (1143 mm)	8,000 / 12,000	04 05 06
Solid Bottom, Heavy Duty, w/ * W6 x 12 Wide Flange Beam *	PG4848DK36 PG4848DK48	762 (345.6 kg) 937 (425.0 kg)	36 1/2" (927 mm) 48 1/2" (1232 mm)	33" (838 mm) 45" (1143 mm)	15,000 / 22,568 15,000 / 22,568	06 07 08 08 00 00 00 00 00 00 00 00 00 00 00
Solid Bottom, Heavy Duty, w/ **	PG4848DH36	762 (345.6 kg)	36 1/2" (927 mm)	33" (838 mm)	22,568 / 33,852	09
6 x 4 Tubing **	PG4848DH48	937 (425.0 kg)	48 1/2" (1232 mm)	45" (1143 mm)	22,568 / 33,852	10
Dimensions & weights in parentheses	are metric equiva	lent.				DRAWN BY: CHECKED BY: APPROVED BY:
STRONGWELL	3621 Industria	Park Drive • Lenoir C	ity, TN 37771 (800) 34	6-3062 • (865) 986-972	6 • FAX (865) 986-0585	SMD AJR NFJ
					2013750 Barrier Ba	PROJECT NUMBER: 24-0177
						DATE DRAWN: 03/19/2025
						SHEET:
						C4

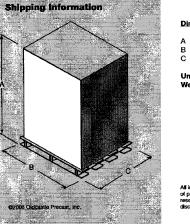


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Material	ASTM Test	
Property	Method	Typical Value ¹
Type, Class, Category	D 1248	III, A, 3
Density, g/cm ³	D 1505	0.950 min., not to exceed 0.965
Tensile Strength, at break, psi	D 638	3,000 to 4,400
Elongation, at break, %	D 638	400
Tensile Impact, ft-lb/in ²	D 1822	27
Flexural Modulus, psi	D 790	120,000 min., not to exceed 240,000
Low Temperature Brittleness, F50, at ^o C	D 746	<-76
Hardness, Shore D	D 2240	66
Deflection Temperature, at 66 psi, ^O F	D 648	150 ^o min., not to exceed 200 ^o
Electrical Dielectric Strength, V/mil	D 149	400 min., not to exceed 600
Molded Product ²		
Chemical Resistance	D 543	Very Resistant
Water Absorption	D 570	Less than 1% weight change

¹The values listed for physical property measurements are nominal values only. Certain physical property measuraments are subject to variations consistent with the test motifoids and are within a generally accepted range for such values. ²Test reports available on raquest.



<u>Value</u> Dim. Description

Height	49"
Length	45"
Width	38"
nits: 99 per pallet	r nallet
uts: 99 per pallet eight: 486 lbs. pe	r pallet

All information contained in this brochure was current at the time of printing. Because of Okicastle Precasts policy of ongoing research and development, the Company reserves the right to discontinue or update product information without notice.

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