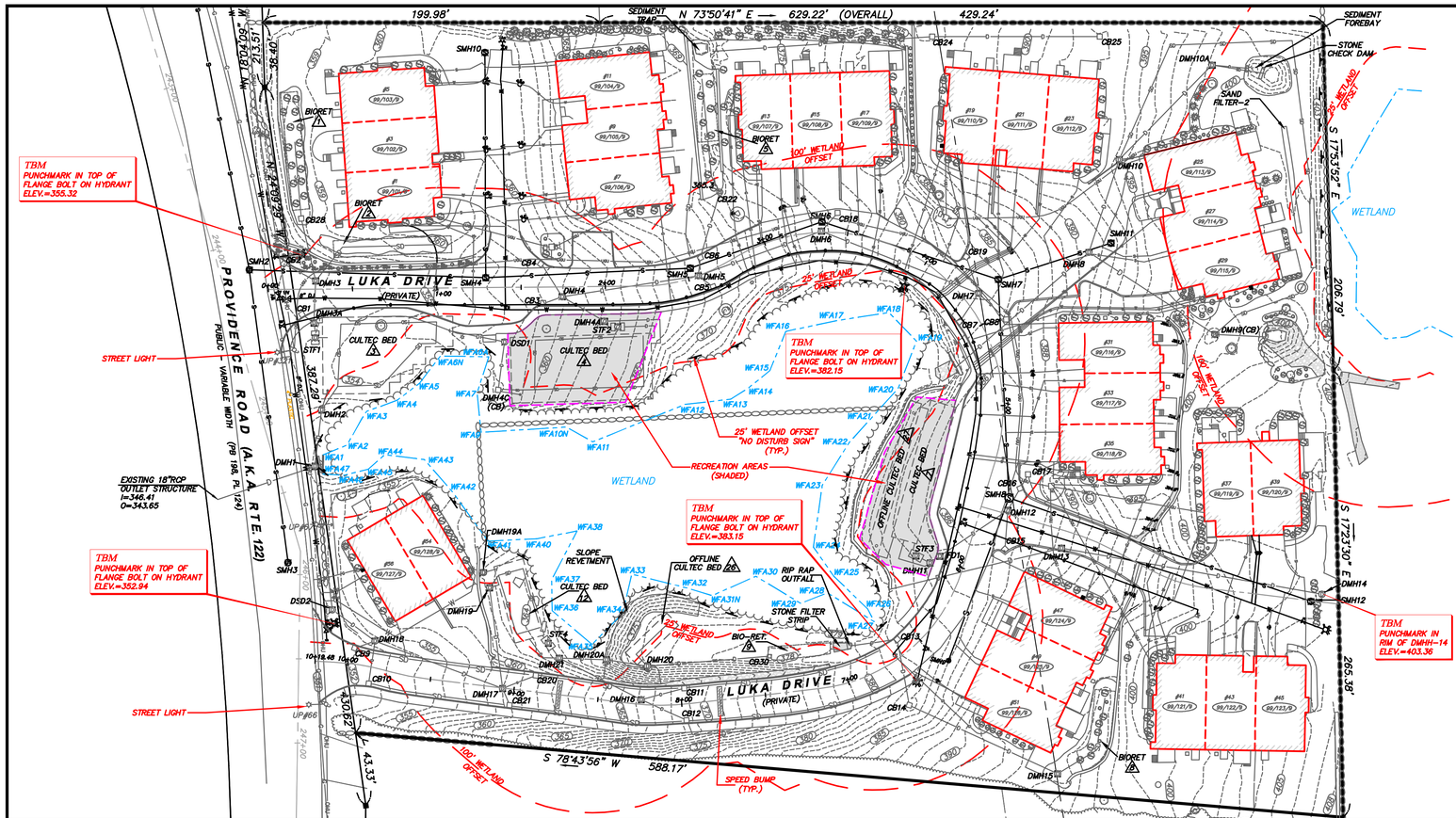


GENERAL NOTES

1) THE ASBUILT TOPOGRAPHY, SITE FEATURES, AND UTILITES DEPICTED HEREON ARE BASED ON AN ACTUAL ON THE GROUND INSTRUMENT FIELD SURVEY PERFORMED BY GRAZ ENGINEERING, LLC FROM MAY 2012 TO APRIL 2021 PERFORMED WITH RTK-GNSS GPS & ELECTRONIC TOTAL STATION INSTRUMENT FIELD SURVEY, THE UNDERGROUND UTILITIES MARKED ON THE DATES OF THE FIELD SURVEYS, AND A COMPILATION OF INFORMATION OBTAINED FROM THE OWNER AND THE SITE CONTRACTOR.

2) THE VERTICAL DATUM WAS ESTABLISHED BY RTK-GNSS GPS PERFORMED AT THE SITE:
VERTICAL DATUM = NAVD88 (REFER TO PLAN FOR BENCHMARKS SET DURING SURVEY)

3) THE FRONT PORTION OF THE SITE ALONG PROVIDENCE ROAD LIES WITHIN THE AQUIFER PROTECTION OVERLAY FOR THE WATER SUPPLY PROTECTION OVERLAY FOR THE TOWN AQUIFER AS DEPICTED ON THE ZONING MAP OF THE TOWN OF GRAFTON ADOPTED MAY 8, 2017.

4) THE SITE LIES WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD, AS SET FORTH ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS (FIRM) 25027C0833E, 25027C0837E, & 25027C0841E, WHICH BEAR EFFECTIVE DATES OF JULY 4, 2011.

5) THE LOCATION OF ALL UNDERGROUND UTILITES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF THE OBSERVABLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC. AND THE COMPILATION OF INFORMATION OBTAINED FROM VARIOUS UTILITY COMPANIES, GOVERNMENT AGENCIES, AND THE OWNER. THE ENGINEER DOES NOT GUARANTEE THAT ALL UTILITES AND SUB-SURFACE STRUCTURES ARE SHOWN.

6) IN ACCORDANCE WITH CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 1-888-344-7233 72 HOURS BEFORE ANY EXCAVATION.

LEGEND

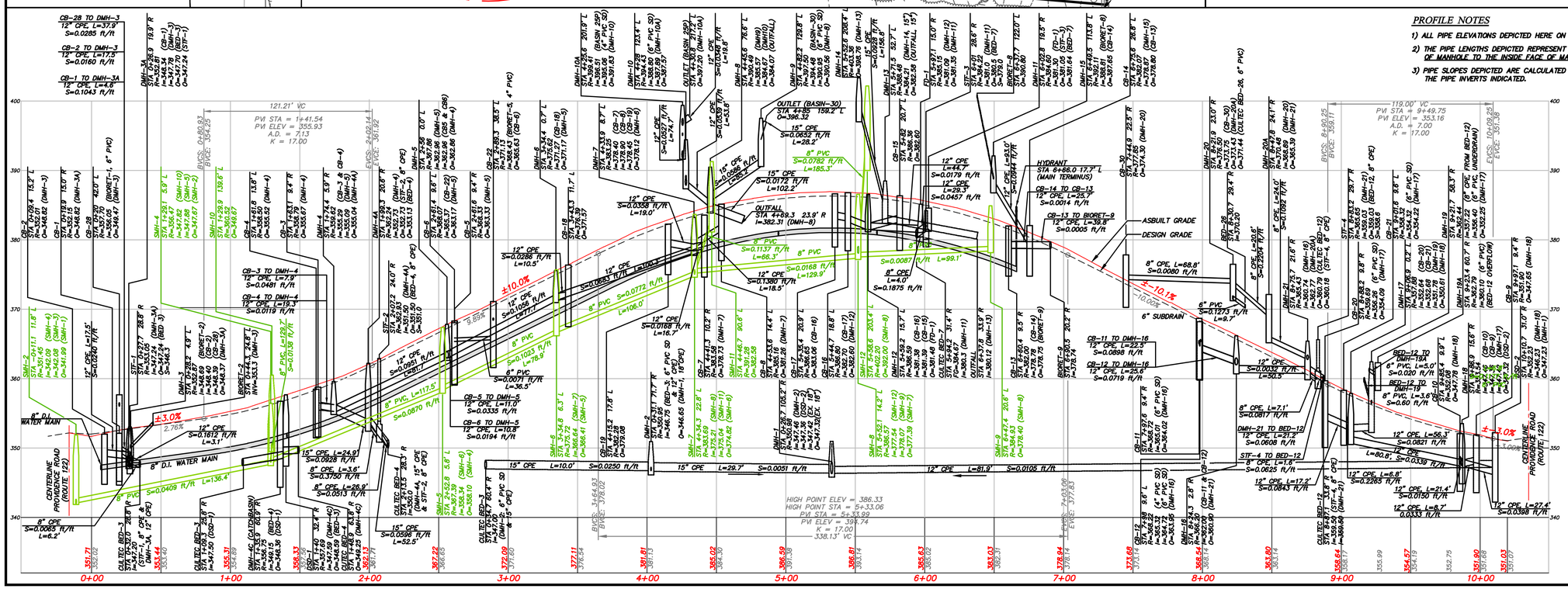
- WATER VALVE
- HYDRANT
- WATER SERVICE SHUTOFF
- CATCHBASIN
- DRAIN MANHOLE
- SEWER MANHOLE
- HYDRO INT. FIRST DEFENSE UNIT
- HYDRO INT. DOWNSTREAM DEFENDER
- CULTEC STORM FILTER
- MAILBOX
- SIGN
- UTILITY POLE
- GUY WIRE
- LIGHT
- TREE LINE
- STONE WALL
- OHU — OVERHEAD UTILITIES
- UGE — UNDERGROUND ELECTRIC
- D — STORM DRAIN LINE
- SD — SUB DRAIN LINE
- RD — ROOF DRAIN LINE
- S — SEWER LINE
- W — WATER LINE
- 356 — ASBUILT CONTOURS

GRAPHIC SCALE

(FEET) 40 0 20 40 80 120

(METERS) 12.2 0 6.1 12.2 24.4 36.6

1 inch = 40 ft.



PROFILE NOTES

1) ALL PIPE ELEVATIONS DEPICTED HERE ON ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.

2) THE PIPE LENGTHS DEPICTED REPRESENT THE HORIZONTAL DISTANCE FROM THE INSIDE FACE OF MANHOLE TO THE INSIDE FACE OF MANHOLE.

3) PIPE SLOPES DEPICTED ARE CALCULATED BASED ON HORIZONTAL DISTANCE NOTED ABOVE AND THE PIPE INVERTS INDICATED.

422.6 — DESIGN GRADE CENTERLINE

422.5 — ASBUILT GRADE CENTERLINE

PROFILE LEGEND

LUKA DRIVE PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 8'

GRAZ Engineering, L.L.C.
323 West Lake Road, Fitzwilliam, NH 03447
Phone: (603) 585-6959 Fax: (603) 585-6960

PROVIDENCE ROAD COMMONS
PROVIDENCE ROAD & LUKA DRIVE, GRAFTON, MA

LUKA DRIVE – ASBUILT PLAN & PROFILE

PREPARED FOR: PROVIDENCE ROAD COMMONS, LLC
43 CORTLAND WAY, GRAFTON, MA

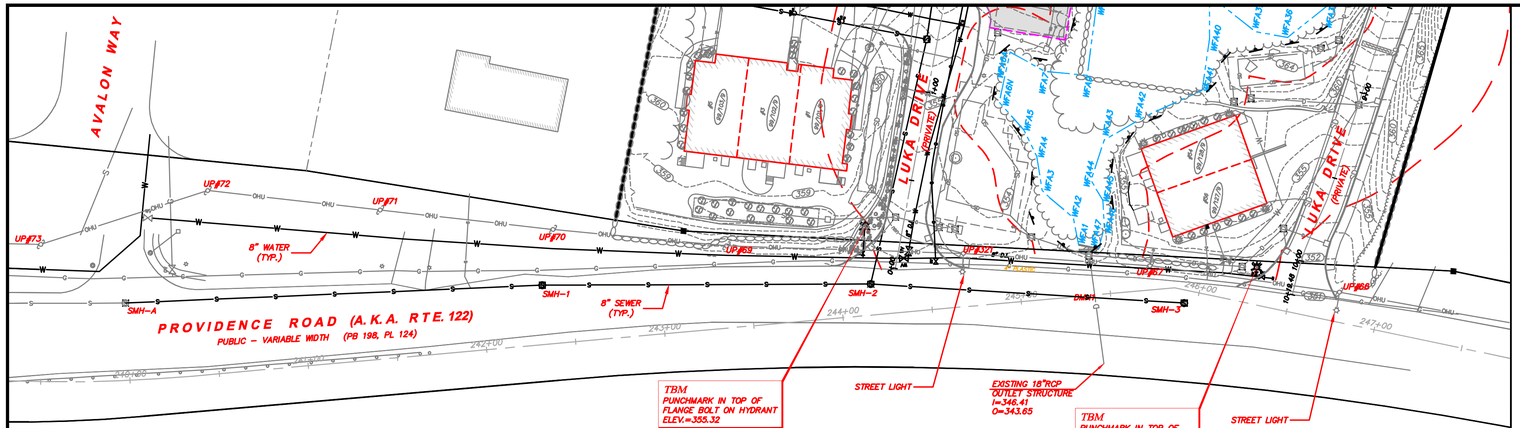
SCALE	COMPUTED BY	DRAWN BY	CHECKED BY	DATE
AS-NOTED	BCM	BCM	PPG	MAY 21, 2021

REV.	DATE	DESCRIPTION	BY
1	8/31/21	REVISED PER GEI COMMENTS DATED 7/8/21	BCM
2	9/28/21	ADDED STREET LIGHTS & REC. AREAS	BCM

COMMONWEALTH OF MASSACHUSETTS BRIAN C. MAYNARD No. 49179 PROFESSIONAL LAND SURVEYOR

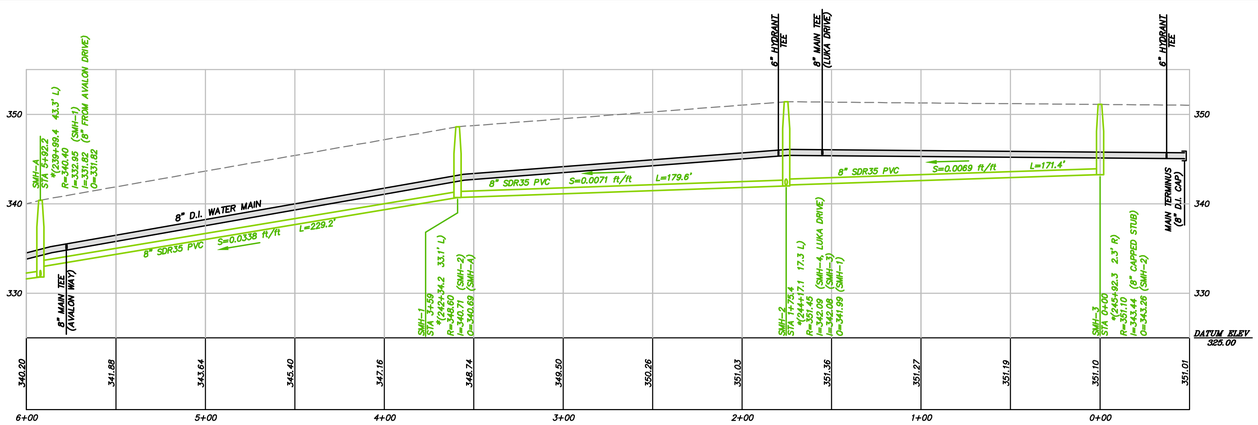
COMMONWEALTH OF MASSACHUSETTS PAUL F. GRASSINGER No. 36184 PROFESSIONAL ENGINEER

SHEET 1 OF 2



PROVIDENCE ROAD SEWER & WATER MAIN EXTENSIONS PLAN

SCALE: 1" = 40'



PROVIDENCE ROAD SEWER & WATER MAIN EXTENSIONS PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 8'

PROFILE NOTES

1) ALL PIPE ELEVATIONS DEPICTED HERE ON ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
2) THE PROFILE DEPICTED REPRESENTS STATIONING ALONG THE CENTERLINE OF THE ASBUILT SEWER EXTENSION IN PROVIDENCE ROAD. THE STATIONING AND OFFSETS TO THE PROVIDENCE ROAD STATE HIGHWAY LAYOUT HAVE BEEN INDICATED IN PARENTHESES FOR REFERENCE ONLY.
3) THE PIPE LENGTHS DEPICTED REPRESENT THE HORIZONTAL DISTANCE FROM THE INSIDE FACE OF MANHOLE TO THE INSIDE FACE OF MANHOLE.
4) PIPE SLOPES DEPICTED ARE CALCULATED BASED ON HORIZONTAL DISTANCE NOTED ABOVE AND THE PIPE INVERTS INDICATED.

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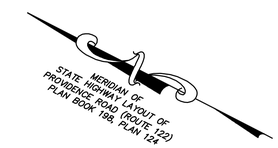
LEGEND

WV	WATER VALVE		TREE LINE
	HYDRANT		STONE WALL
	WATER SERVICE SHUTOFF	OHU	OVERHEAD UTILITIES
	CATCHBASIN	UGE	UNDERGROUND ELECTRIC
D	DRAIN MANHOLE	D	STORM DRAIN LINE
S	SEWER MANHOLE	SD	SUB DRAIN LINE
	MAILBOX	RD	ROOF DRAIN LINE
	SIGN	S	SEWER LINE
	UTILITY POLE	W	WATER LINE
	GUY WIRE	358	ASBUILT CONTOURS
	LIGHT		



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PROVIDENCE ROAD – ASBUILT SEWER & WATER
PREPARED FOR: PROVIDENCE ROAD COMMONS, LLC
43 CORTLAND WAY, GRAFTON, MA

SCALE AS-NOTED	COMPUTED BY BCM	DRAWN BY BCM	CHECKED BY PFG	DATE MAY 21, 2021

REV.	DATE	DESCRIPTION	BY
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COMMONWEALTH OF MASSACHUSETTS BRIAN C. MURPHY PROFESSIONAL LAND SURVEYOR

COMMONWEALTH OF MASSACHUSETTS PAUL F. GRASEWICZ CIVIL No. 36136 PROFESSIONAL ENGINEER