



Bush, Roed & Hitchings, Inc.

River Trail Apartments
1617 East Main Avenue
Puyallup, WA
April 13, 2022

Storm Drainage Memo

Overview of Minimum Requirements:

The total area of disturbance of the site is 4,579 sf. The project proposes to improve the existing parking and to relocate the driveway entrance. Of the total area of disturbance, 2,749 sf is new plus replaced hard surfaces and 1,830 sf of landscape. **See attached exhibits for a hard surface summary.**

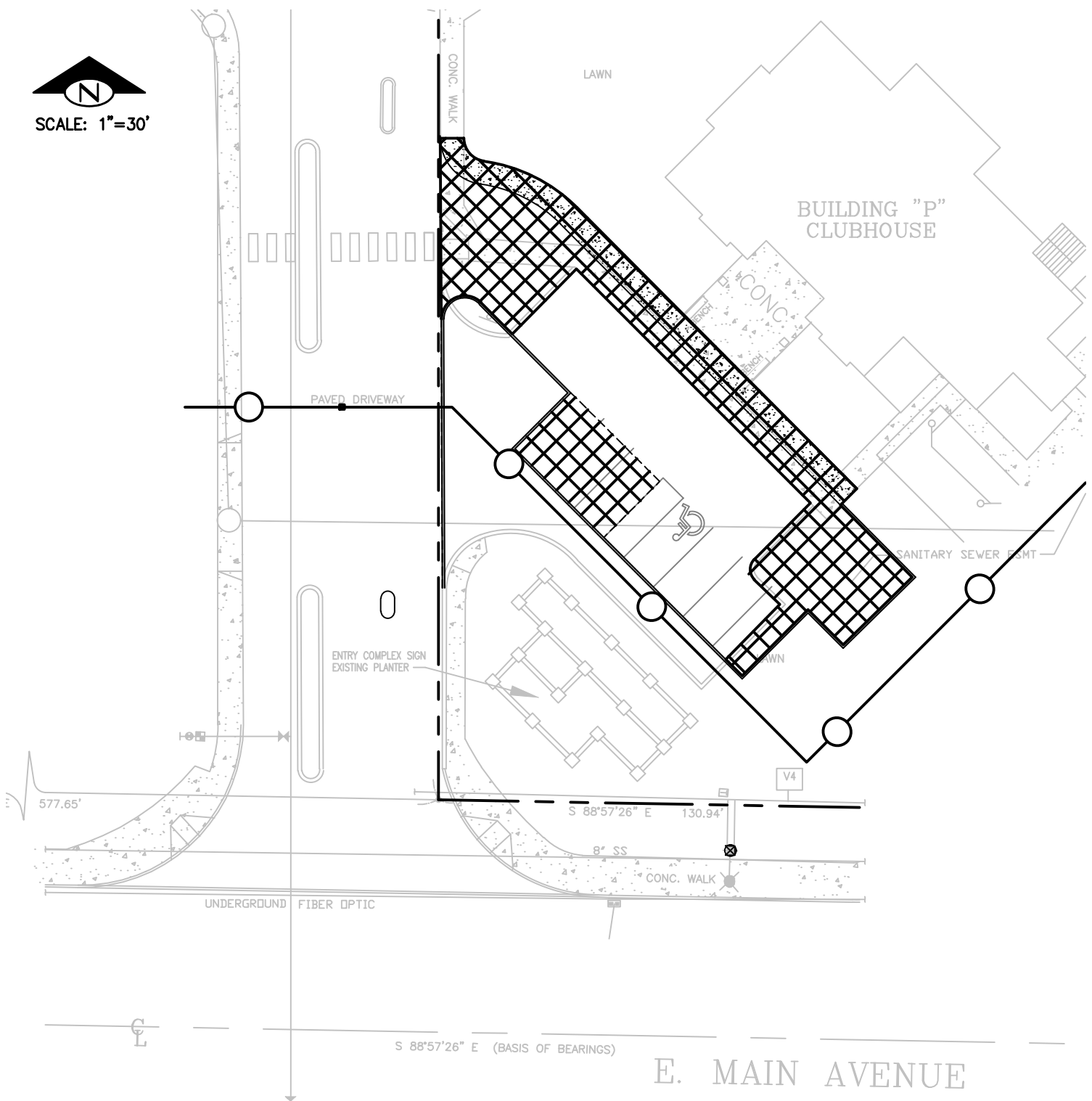
Minimum requirements 1-5 are required for this project. List 3 For Flow Control Exempt Projects was used to select Onsite stormwater BMPs. For pervious areas, **BMP T5.13: Post-Construction Soil Quality and Depth Control** will be used. For impervious areas, no BMPs were feasible due to the lack of vegetated flow path for dispersion. **See attached List 3 requirements.** Erosion Control BMPs will be implemented to prevent construction water to flow offsite. In addition, the proposed grading will be designed to preserve existing drainage patterns to the maximum extent feasible.

Sincerely,

Ted Dimof, PE

Principal


SCALE: 1"=30'



**IMPERVIOUS AREA
NEW AND OR REPLACED
= 2,749.00 SF**

JOB NO	2022068.00
SCALE	AS NOTED
DRAWN	WPG
CHECKED	TFD
DATE	4/1/22

BUSH, ROED & HITCHINGS, INC.

CIVIL ENGINEERS & LAND SURVEYORS
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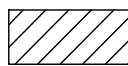
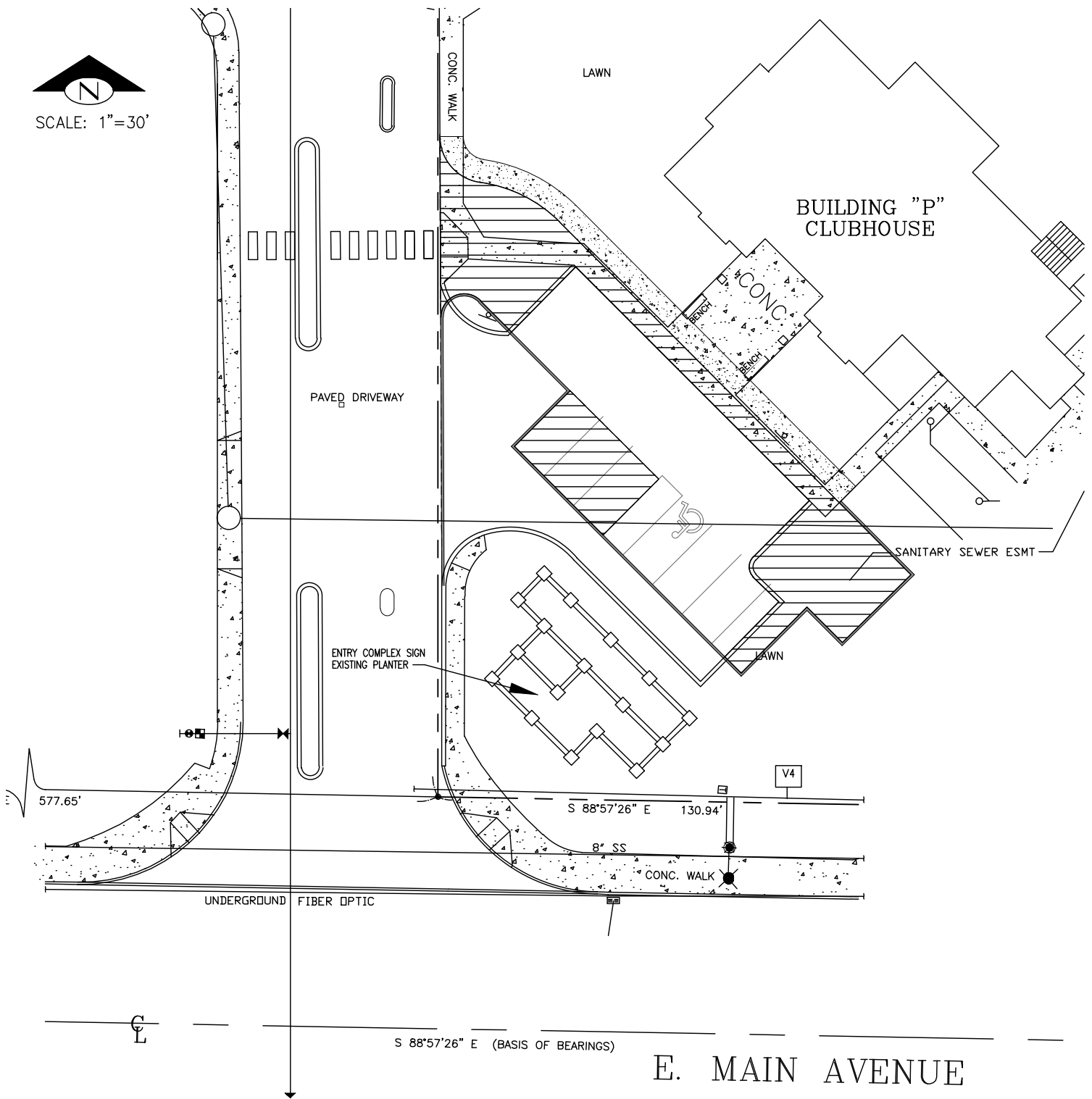
EXISTING AREA REPLACEMENT

1617 EAST MAIN AVENUE
RIVER TRAIL APARTMENTS

PUYALLUP

WASHINGTON

SCALE: 1"=30'



NEW POLLUTION GENERATING SURFACE
= 2,161.00SF

JOB NO	2022068.00
SCALE	AS NOTED
DRAWN	WPG
CHECKED	TFD
DATE	4/1/22

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POLLUTION GENERATING SURFACE
1617 EAST MAIN AVENUE
RIVER TRAIL APARTMENTS
PUYALLUP WASHINGTON

Table I-3.2: The List Approach for MR5 Compliance

List #1 (For MR #1 - #5 Projects That Are Not Flow Control Exempt)	List #2 (For MR #1 - #9 Projects That Are Not Flow Control Exempt)	List #3 (For Flow Control Exempt Projects)
Surface Type: Lawn and Landscaped Areas		
BMP T5.13: Post-Construction Soil Quality and Depth	BMP T5.13: Post-Construction Soil Quality and Depth	BMP T5.13: Post-Construction Soil Quality and Depth
Surface Type: Roofs		
1. BMP T5.30: Full Dispersion or BMP T5.10A: Downspout Full Infiltration	1. BMP T5.30: Full Dispersion or BMP T5.10A: Downspout Full Infiltration	1. BMP T5.10A: Downspout Full Infiltration
2. BMP T5.14: Rain Gardens or BMP T7.30: Bioretention	2. BMP T7.30: Bioretention	2. BMP T5.10B: Downspout Dispersion Systems
3. BMP T5.10B: Downspout Dispersion Systems	3. BMP T5.10B: Downspout Dispersion Systems	3. BMP T5.10C: Perforated Stub-out Connections
4. BMP T5.10C: Perforated Stub-out Connections	4. BMP T5.10C: Perforated Stub-out Connections	
Surface Type: Other Hard Surfaces		
1. BMP T5.30: Full Dispersion	1. BMP T5.30: Full Dispersion	BMP T5.12: Sheet Flow Dispersion or BMP T5.11: Concentrated Flow Dispersion
2. BMP T5.15: Permeable Pavements or BMP T5.14: Rain Gardens or BMP T7.30: Bioretention	2. BMP T5.15: Permeable Pavements	
3. BMP T5.12: Sheet Flow Dispersion or BMP T5.11: Concentrated Flow Dispersion	3. BMP T7.30: Bioretention 4. BMP T5.12: Sheet Flow Dispersion or BMP T5.11: Concentrated Flow Dispersion	

Notes for using the List Approach:

1. Size [BMP T5.14: Rain Gardens](#) and [BMP T7.30: Bioretention](#) used in the List Approach to have a minimum horizontal projected surface area below the overflow which is at least 5% of the area draining to it.
2. When the designer encounters [BMP T5.15: Permeable Pavements](#) in the List Approach, it is not a requirement to pave these surfaces. Where pavement is proposed, it must be permeable to the extent feasible unless [BMP T5.30: Full Dispersion](#) is employed.