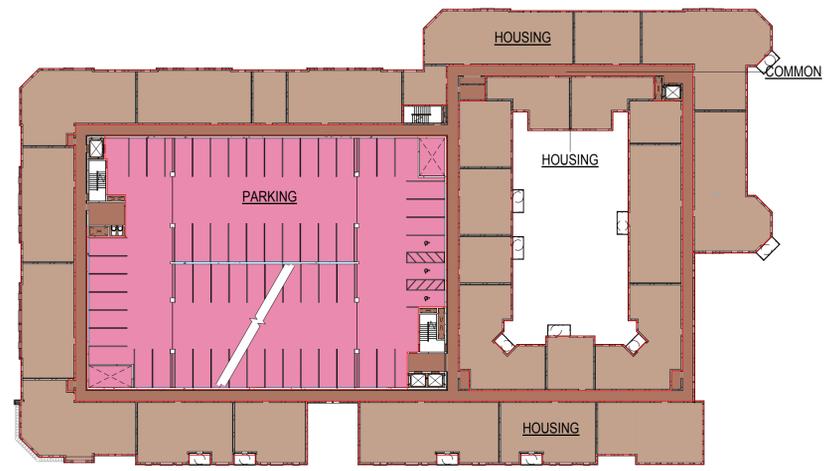


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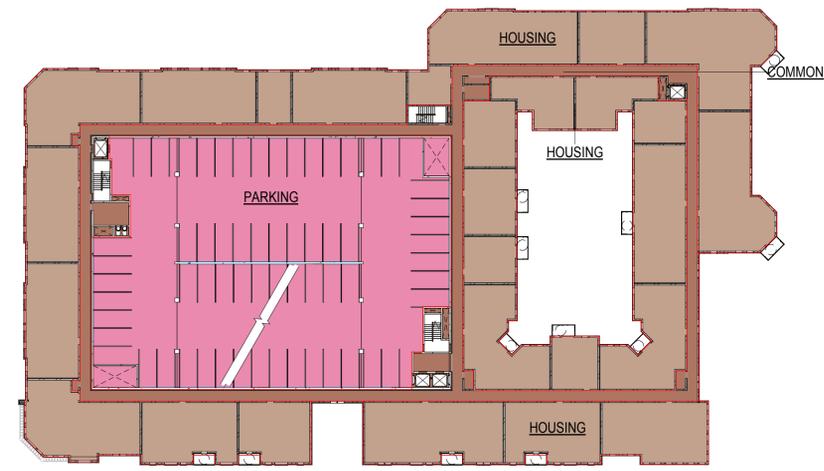


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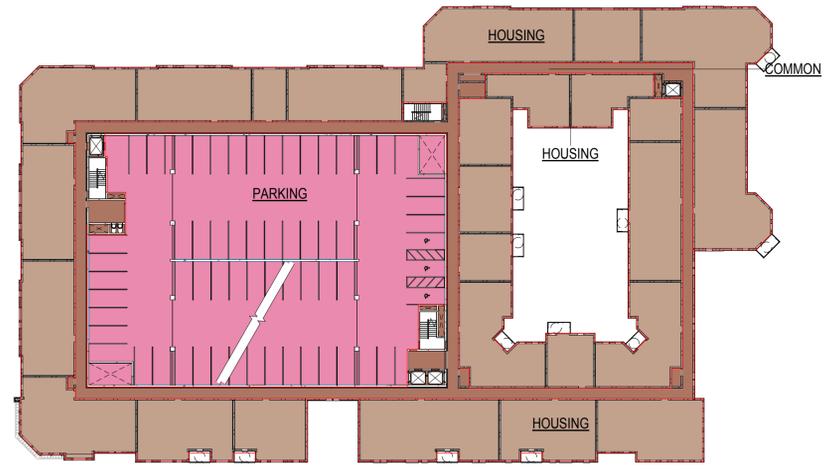
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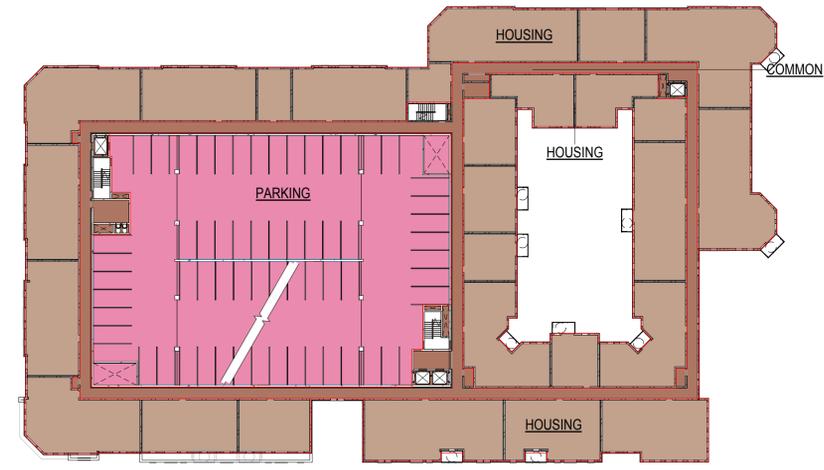
1 LEVEL 4
6.16 1" = 40'-0"



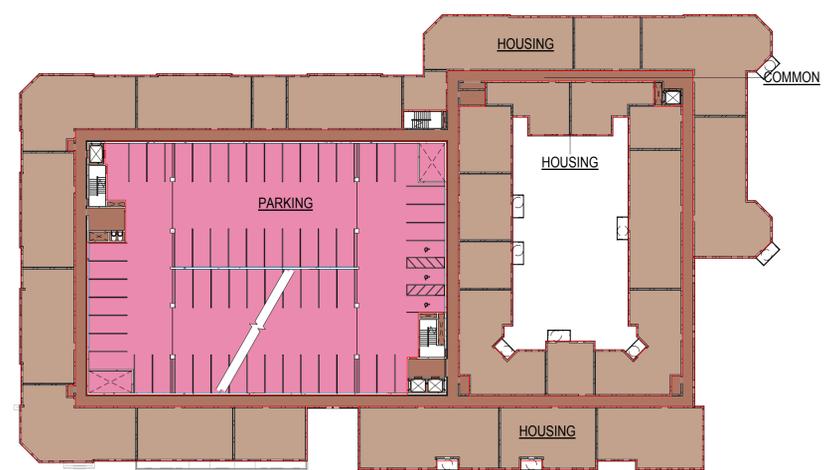
2 LEVEL 5
6.16 1" = 40'-0"



3 LEVEL 6
6.16 1" = 40'-0"



4 LEVEL 7
6.16 1" = 40'-0"



5 LEVEL 8
6.16 1" = 40'-0"



6 LEVEL 9
6.16 1" = 40'-0"



7 LEVEL 10
6.16 1" = 40'-0"

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CONSULTANTS

PROJECT TITLE

**THE STANDARD
AT
MORGANTOWN**

KEY PLAN



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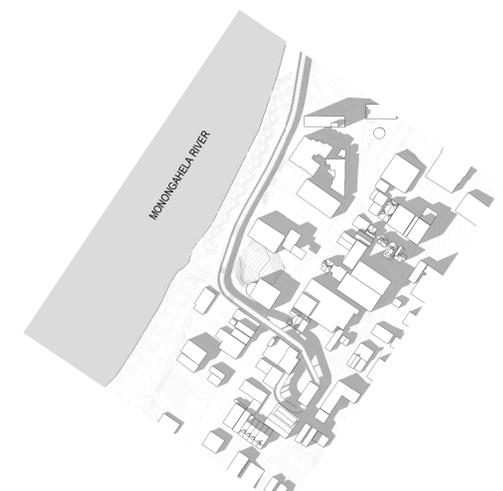
**SUN STUDIES
EXISTING**

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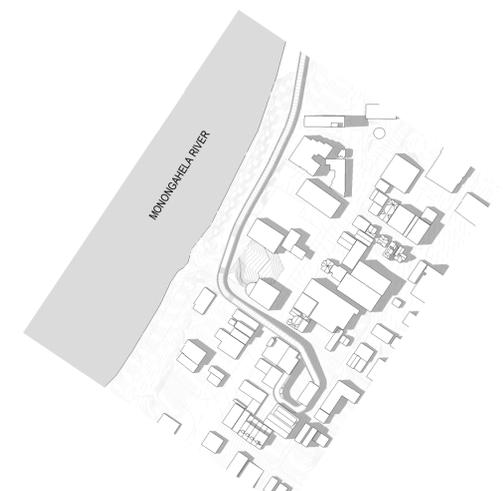
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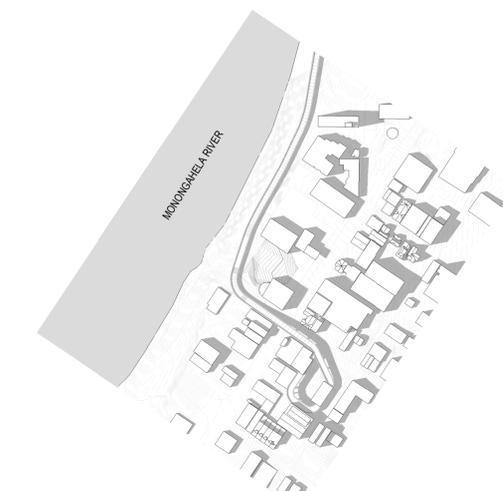
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6.17 1" = 300'-0"



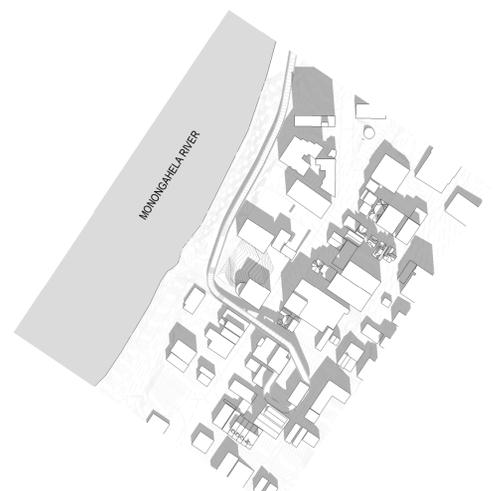
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6.17 1" = 300'-0"



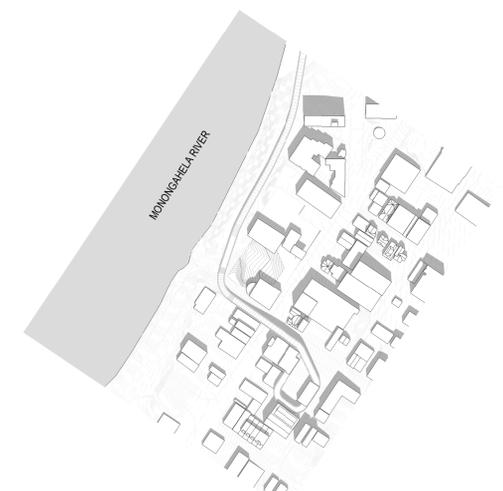
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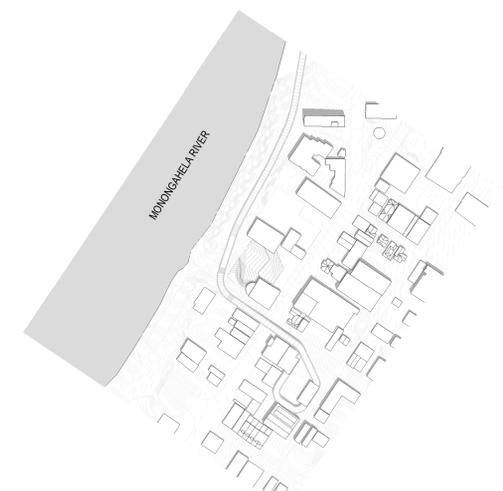
3 SUN STUDY - EXISTING - SPRING 4PM
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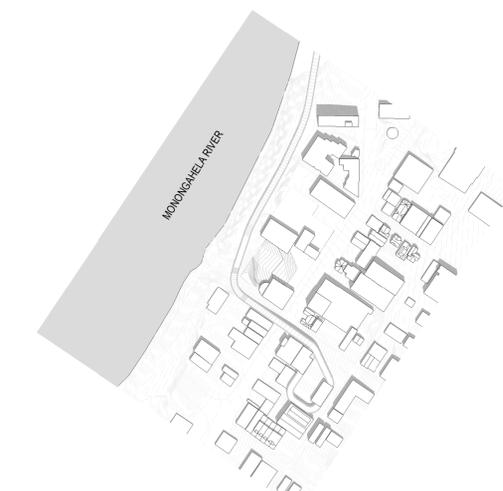
11 SUN STUDY - EXISTING - WINTER 12PM
6.17 1" = 300'-0"



8 SUN STUDY - EXISTING - AUTUMN 12PM
6.17 1" = 300'-0"



5 SUN STUDY - EXISTING - SUMMER 12PM
6.17 1" = 300'-0"



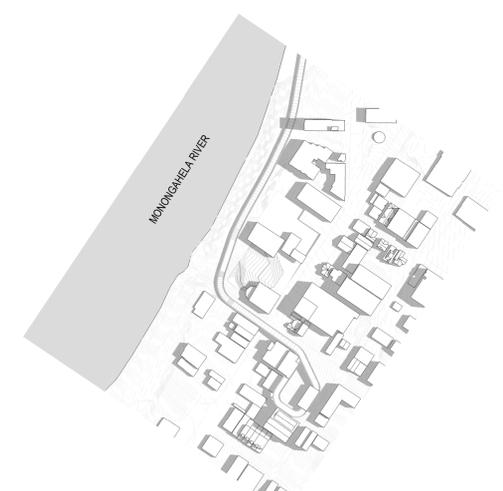
2 SUN STUDY - EXISTING - SPRING 12PM
6.17 1" = 300'-0"



10 SUN STUDY - EXISTING - WINTER 9AM
6.17 1" = 300'-0"



7 SUN STUDY - EXISTING - AUTUMN 9AM
6.17 1" = 300'-0"



4 SUN STUDY - EXISTING - SUMMER 9AM
6.17 1" = 300'-0"



1 SUN STUDY - EXISTING - SPRING 9AM
6.17 1" = 300'-0"

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**THE STANDARD
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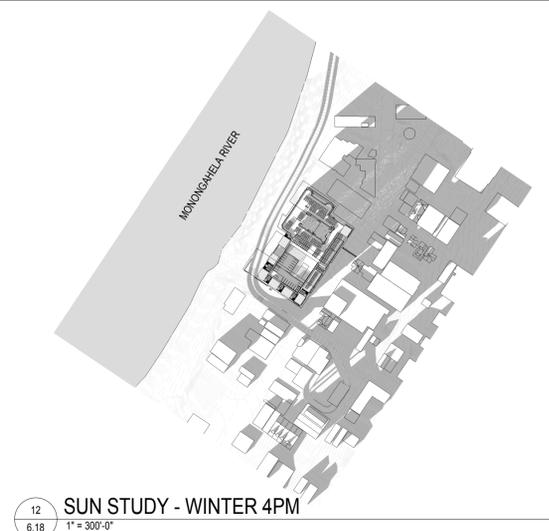
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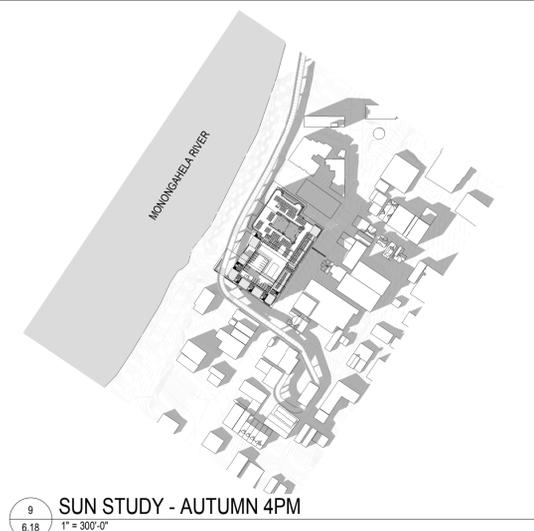
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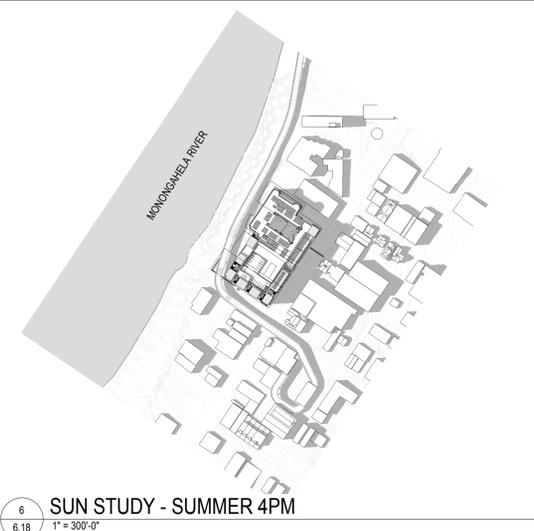
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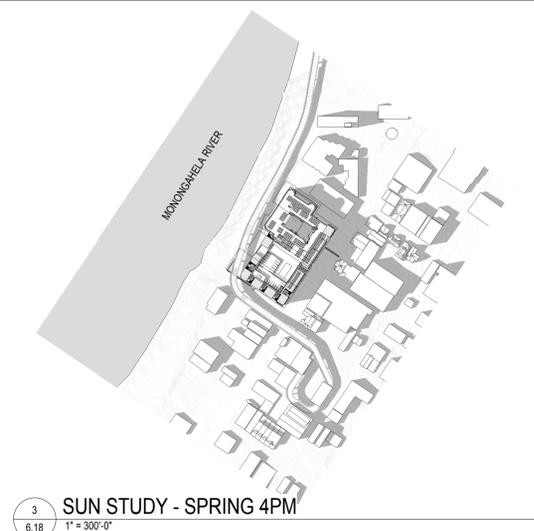
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1" = 300'-0"



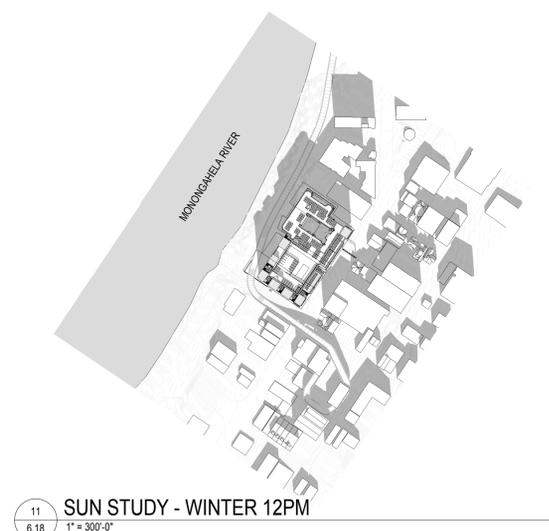
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1" = 300'-0"



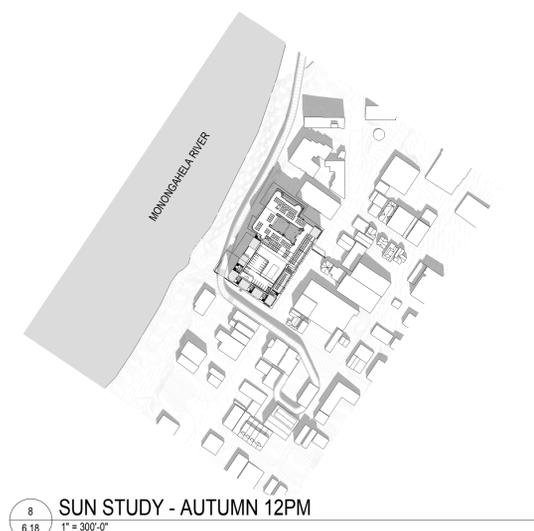
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1" = 300'-0"



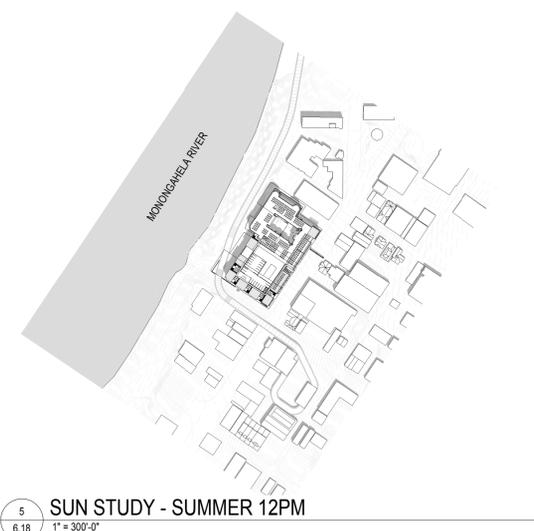
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6.18 SUN STUDY - SPRING 4PM
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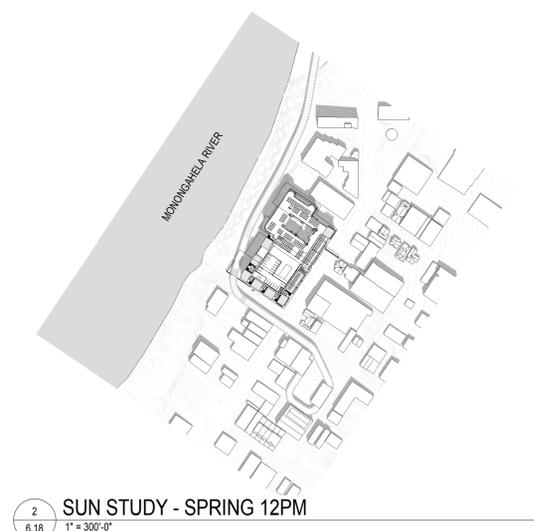
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1" = 300'-0"



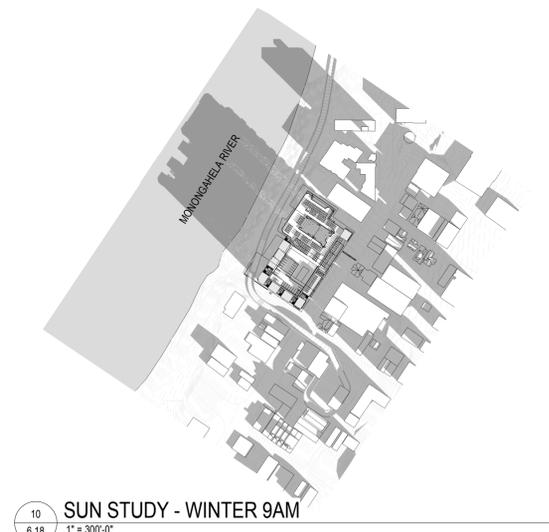
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1" = 300'-0"



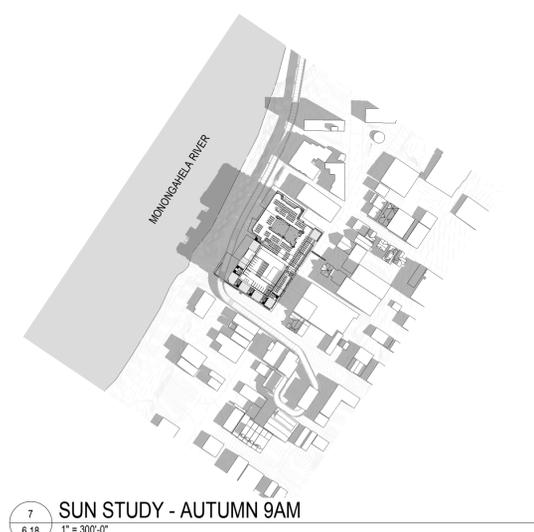
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1" = 300'-0"



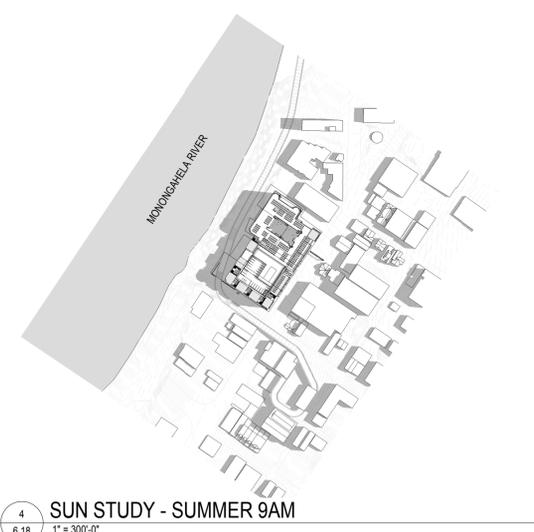
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1" = 300'-0"



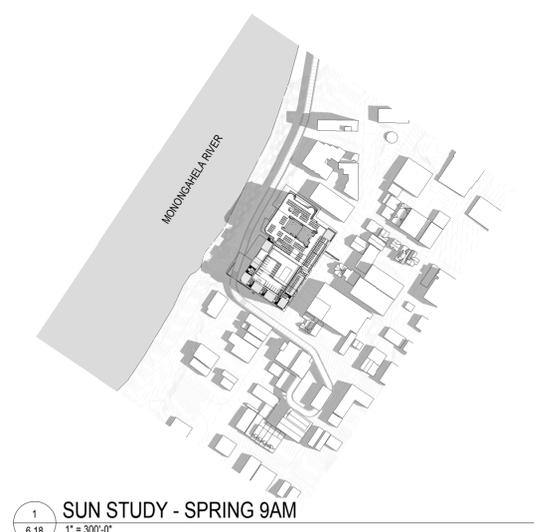
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6.18 SUN STUDY - WINTER 9AM
1" = 300'-0"



7
6.18 SUN STUDY - AUTUMN 9AM
1" = 300'-0"



4
6.18 SUN STUDY - SUMMER 9AM
1" = 300'-0"



1
6.18 SUN STUDY - SPRING 9AM
1" = 300'-0"

WIND STUDY ANALYSIS SUMMARY

THE OBJECTIVE OF THIS REPORT IS TO ANALYZE THE CHANGE IN WIND CONDITIONS AT THE GRADE LEVEL AND TOP PERIMETER AROUND THE BUILDING. THE STUDY WAS CONDUCTED FOR THE IMMEDIATE SURROUNDINGS OF THE PROPOSED PROJECT SITE TO BE LOCATED AT THE CORNER OF UNIVERSITY AVENUE AND WALNUT STREET IN DOWNTOWN MORGANTOWN WEST VIRGINIA. THE SIMULATIONS WERE EXECUTED USING LOCAL CLIMATE DATA PROVIDED BY NOAA. THE PURPOSE OF THIS STUDY IS TO PROVIDE THE CITY OF MORGANTOWN AN ESTIMATE OF THE MICROCLIMATIC CHANGES BETWEEN THE CURRENT BUILDING HEIGHTS IN THIS AREA AND THAT OF THE PROPOSED BUILDING HEIGHT FOR THIS PROPERTY. THIS REPORT DESCRIBES THE BASIC WEATHER PATTERNS AND DATA TYPICALLY FOUND AT THE MORGANTOWN MUNICIPAL AIRPORT WEATHER STATION OVER THE COURSE OF AN AVERAGE YEAR. THE DATA IS BASED ON HISTORICAL RECORDS FROM 1974 TO 2014. THE PREDOMINATE WIND DIRECTION IN THIS AREA IS FROM THE SOUTH AND SOUTHWEST AT AN OCCURRENCE OF APPROXIMATELY 37% OF THE TIME. OTHER WIND DIRECTIONS WERE NOT GIVEN A HIGH PRIORITY FOR THIS STUDY AS THEY WERE DETERMINED TO OCCUR AT A LESSER FREQUENCY. A REVIT BASED COMPUTER SOFTWARE PROGRAM CALLED AUTODESK FLOW DESIGN WAS USED TO ANALYZE THE WIND FLOW PATTERNS AROUND THE STRUCTURES. LOCALIZED CLIMATE, GRAPHIC AND NUMERICAL DATA WAS ENTERED INTO THE PROGRAM AND GIVEN SPECIFIED DIRECTIONS FOR THE EXISTING AND PROPOSED BUILDINGS. THE FINAL DATA SUGGESTS LITTLE TO NO CHANGE IN THE WIND FLOW INTENSITY OCCURS AT THE BASE OF THE NEW DESIGN AROUND UNIVERSITY AND WALNUT. A SLIGHT INCREASE IN WIND ACTIVITY AT THE TOP OF THE BUILDING APPEARS TO BE MINIMAL AND DOES NOT CREATE A NOTICEABLE EFFECT ON THE ADJACENT PROPERTIES AT LOWER ELEVATIONS. GIVEN THESE RESULTS, IT IS OUR ASSESSMENT THAT ANY SCALE MODIFICATIONS TO THE PROPOSED PROJECT WOULD NOT SUBSTANTIALLY ALTER THE RESULTS OF THIS WIND STUDY. MOSTLY, THIS IS DUE TO THE ENVISIONED STRUCTURE BEING OF A FOOTPRINT THAT APPEARS TO ACT AS A BUFFER AGAINST THE ADJACENT BUILDINGS OF LOWER ELEVATIONS. IT SEEMS THAT GIVEN THE ADJACENCIES OF THE NEARBY STRUCTURES BEING OF LOWER HEIGHT, LITTLE CHANGE WOULD BE BENEFITED BY ANY REDUCTION OR INCREASE TO THE PROPOSED PROJECTS BUILDING HEIGHT.

CONSULTANTS

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Jack O. Boarman
 DATE: 10/02/2015
 DRAWN BY: Author
 CHECKED BY: Checker
 COMMISSION NUMBER: 1870.08

SHEET TITLE

WIND STUDIES

SHEET NUMBER

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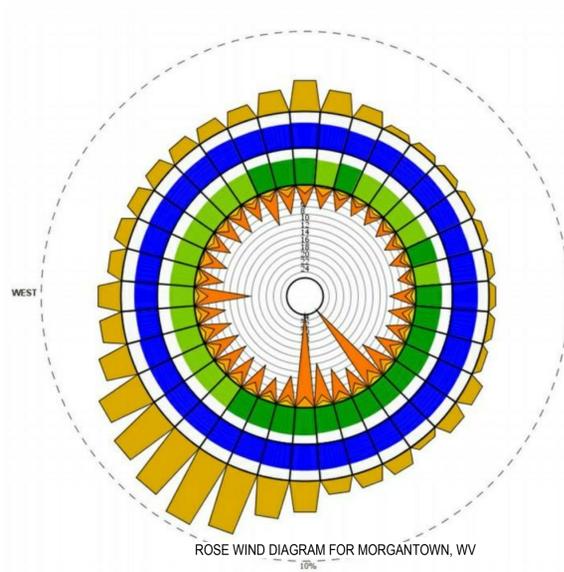


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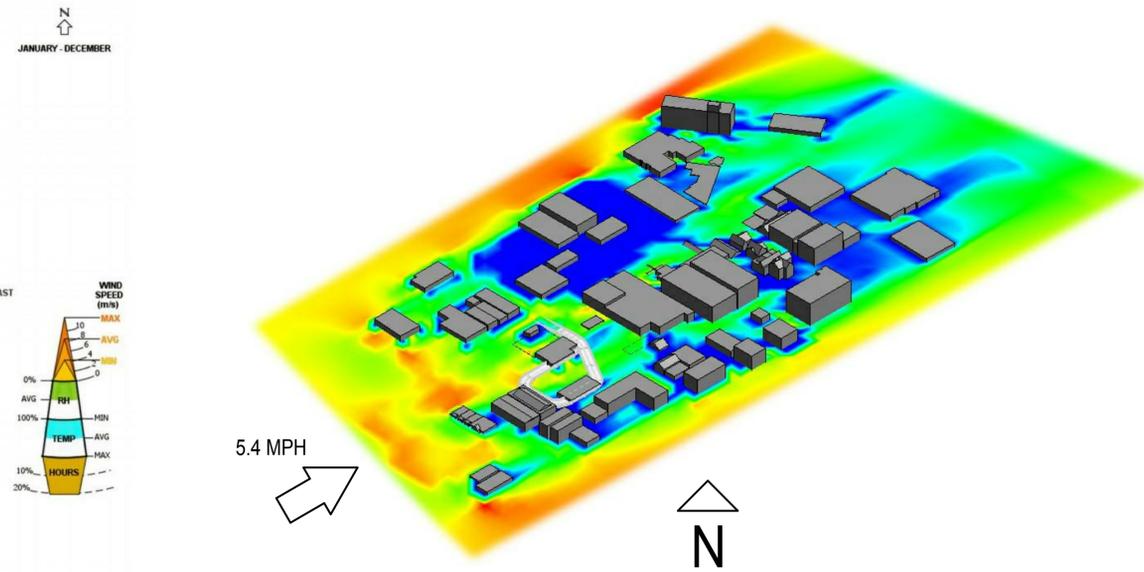


DIAGRAM 2 HORIZONTAL WIND PLANE (EXISTING STRUCTURE)

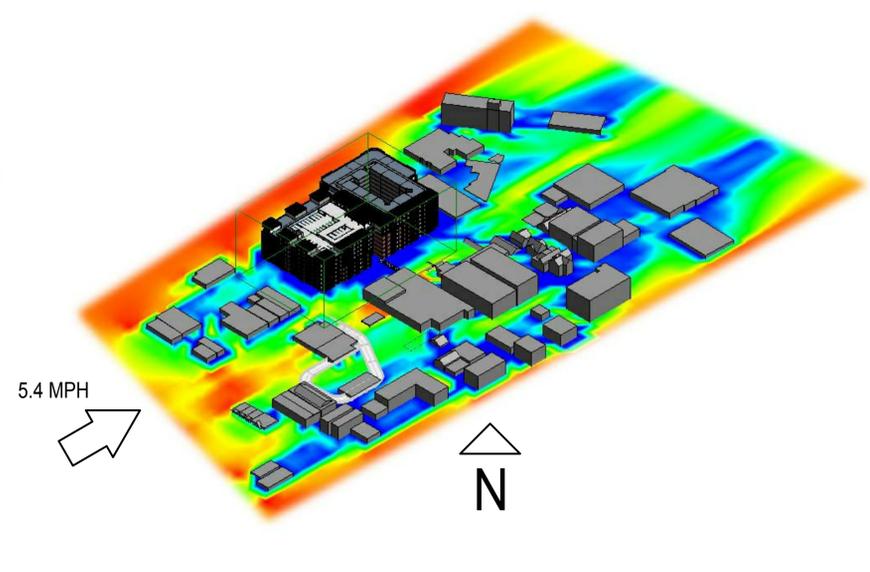


DIAGRAM 3 HORIZONTAL WIND PLANE (PROPOSED STRUCTURE)

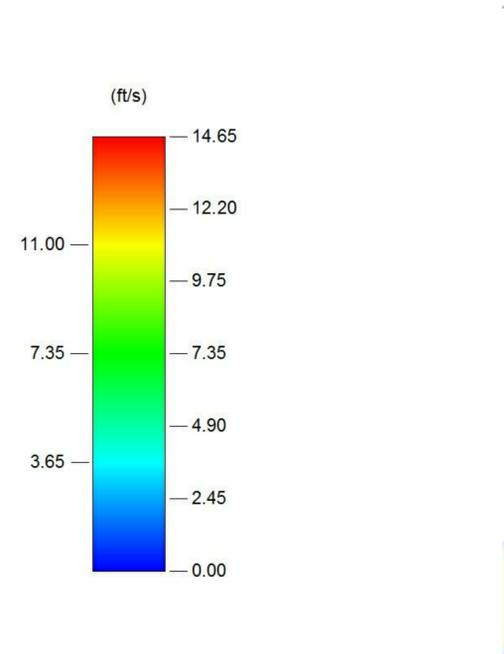


DIAGRAM 4 WIND VELOCITY COLOR KEY

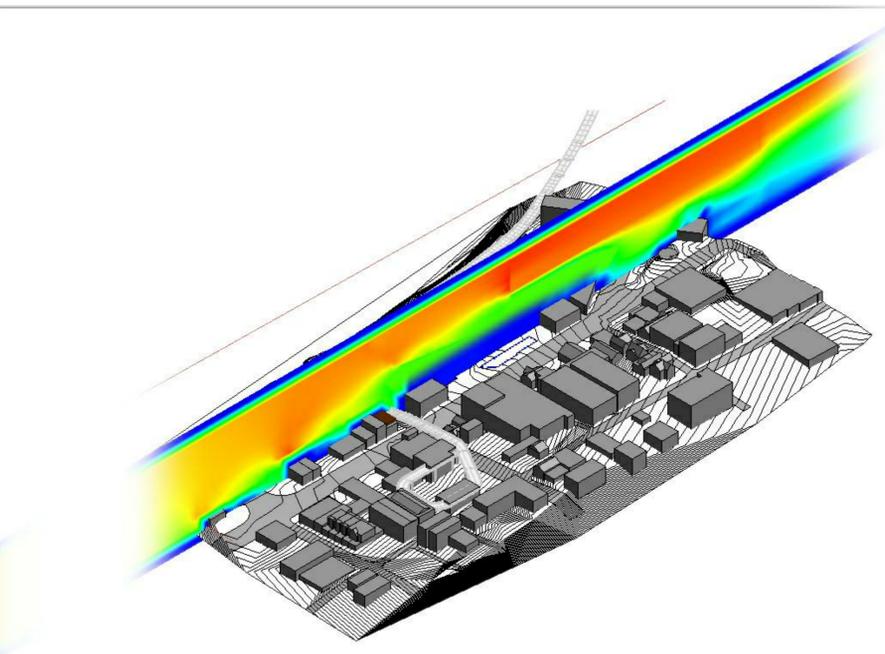


DIAGRAM 5 VERTICAL WIND PLANE (EXISTING STRUCTURE)

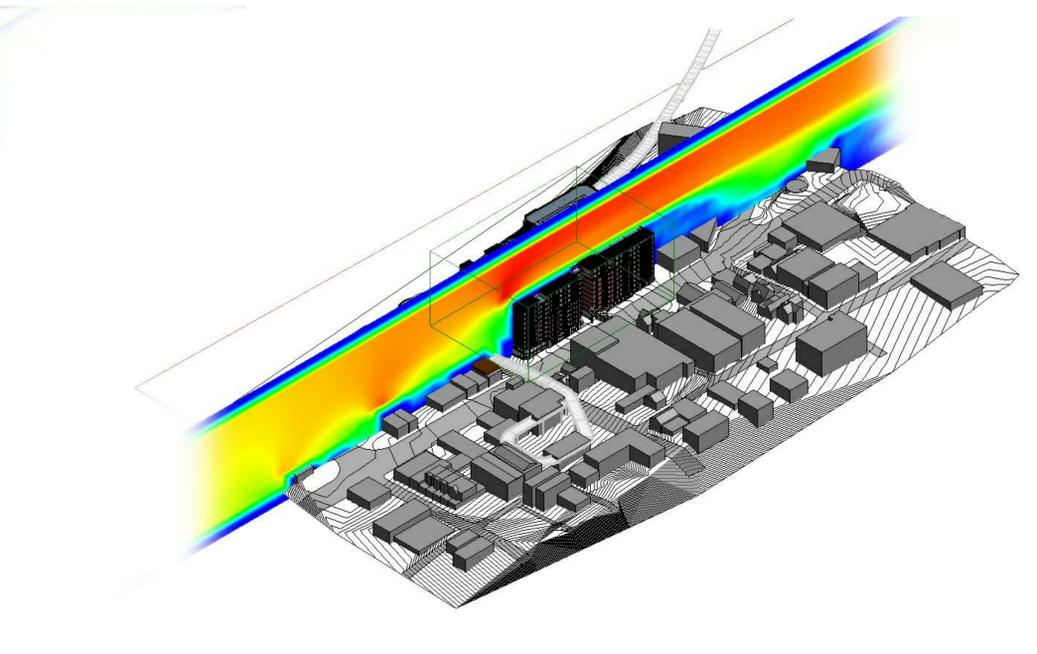


DIAGRAM 6 VERTICAL WIND PLANE (PROPOSED STRUCTURE)

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