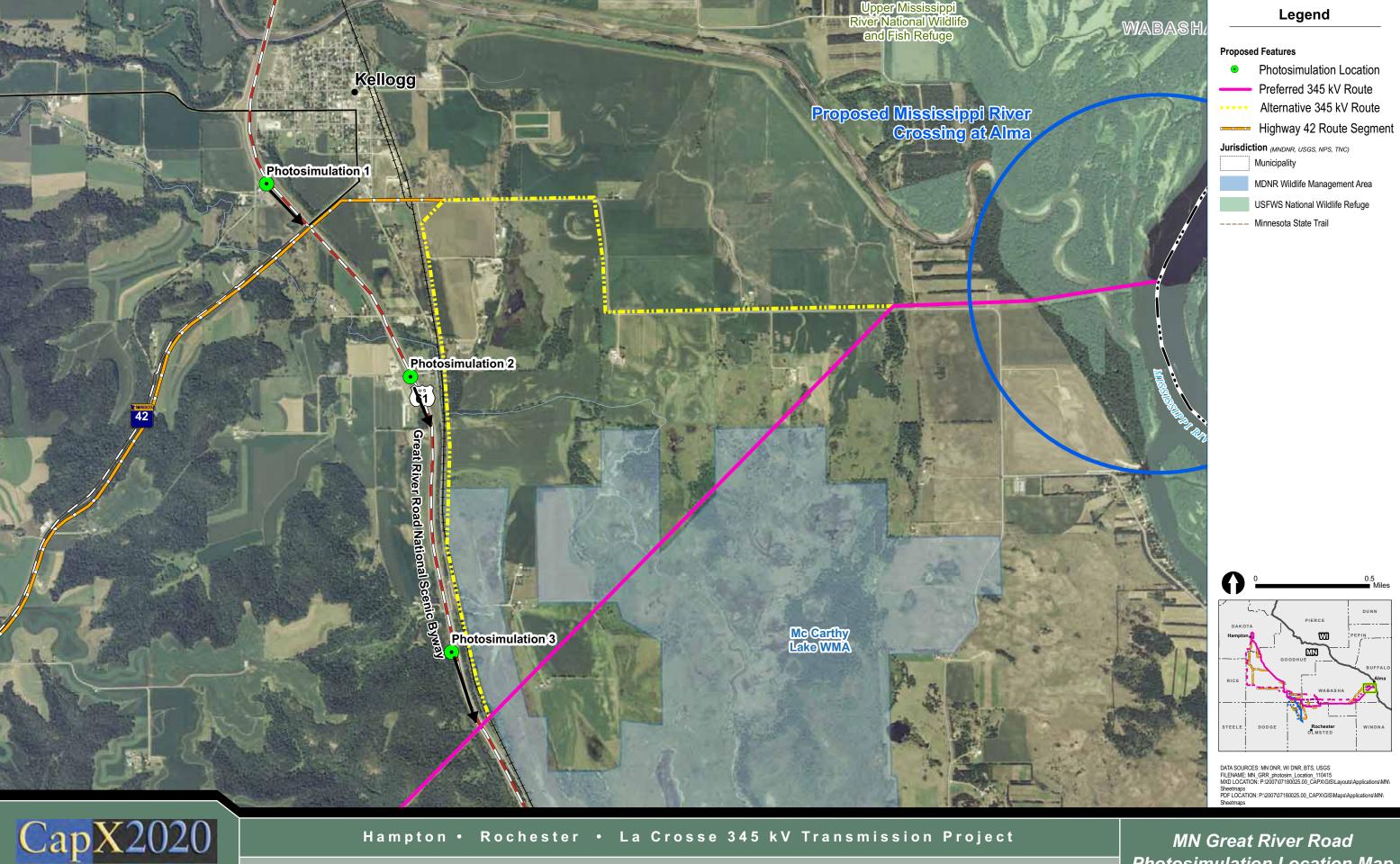
Summary Comparison of Impacts for Preferred and Alternative 161 kV Routes

Resource Category	Preferred 161 kV Route	Alternative 161 kV Route	
Residences ¹			
Revised Number of Residences 0-40 feet (within ROW) from route centerline	0	0	
Revised Number of Residences 0-75 feet from route centerline	4	1	
Revised Number of Residences 75-150 feet from route centerline	15	5	
Revised Number of Residences 150-300 feet from route centerline	40	28	
Revised Density (residences/linear mile within 300 feet of route centerline)	3.8	1.8	
Recreation and Tourism			
No impacts to recreation and tourism are anticipated			
Effects on Land-Based Economics			
Agriculture		_	
Permanent Impact	2.4 acres	2.6 acres	
Temporary Impact	139 acres	161 acres	
Forestry	No impacts to economically important forestry areas are anticipated.		
Mining	No impacts to aggregate mines are anticipated.		
Archaeological and Historic Resources Sites Within 1 mile of Rou	ıte Centerline		
Archaeological	14	0	
Architectural			
National Register of Historic Places (NRHP)	0	3	
Architectural	13	11	
Natural Environment			
Water Resources			
Permanent Wetlands Impacts	<1 acre	<1 acre	
Temporary Wetlands Impacts	2 acres	3 acres	
Potential Tree Clearing in Wetlands	1.3 acres	1.9 acres	
Stream Crossings	5	18	
Permanent Impacts to Floodplains	<1 acre	<1 acre	
Flora		,	
Percent Cropland	77	72	
Percent Grassland	17	22	
Percent Shrubland	0	<1	
Percent Forested Land	3	5	

¹ The house count numbers contained in this chart were revised from the Application. *See* Schedule 8 to Tom Hillstrom's Direct Testimony for additional information.

Summary Comparison of Impacts for Preferred and Alternative 161 kV Routes

Resource Category	Preferred 161 kV	Alternative 161 kV	
	Route	Route	
Percent Aquatic	<1	0	
Fauna		1	
Conservation Reserve Program Lands Crossed	4	2	
Conservation Reserve Enhancement Program Lands Crossed	0	0	
Length of Important Bird Areas Crossed	0 mile	0 mile	
Length of Grassland Bird Conservation Areas Crossed	0 mile	2.6 miles	
Number of Federal Rare and Unique Species Known to Occur Within 1	mile of Route Centerline		
Threatened	0	0	
Endangered	0	0	
Candidate	0	0	
Number of State Rare and Unique Species Known to Occur Within 1 mi	le of Route Centerline		
Threatened	6	6	
Endangered	0	0	
Species of Concern	4	2	
DNR Rare Native Communities	35	70	
Length of Outstanding Biodiversity Sites Crossed	0	0	
Length of High Biodiversity Sites Crossed	0	0.7 mile	
Length of Moderate Biodiversity Sites Crossed	0	0	
Use or Paralleling of existing ROW (transportation, pipeline, and el lines	ectrical transmission s	ystems) and property	
Total length of route (miles)	15.4	18.0	
Length following Transmission Line (miles)	0.5	5.8	
Percentage of route following Transmission Line	3%	32%	
Length following road but not Transmission Line (miles)	13.3	8.1	
Percentage of route following road but not Transmission Line	86%	45%	
Length following property line but not transmission line or roads (miles)	1.6	2.2	
Percentage of route following property line but not transmission line or roads	10%	12%	
Total length following transmission line, roads, or property lines (miles)	15.3	16.1	
Percentage of route following transmission line, roads, or property lines	100%	89%	
Length not following transmission line, roads, or property lines (miles)	0.1	1.9	
Percentage of route not following transmission line, roads, or property lines	1%	11%	
Estimated Costs (millions)			
Cost	\$16	\$17	



Hampton · Rochester · La Crosse 345 kV Transmission Project





Photopoint 1 - **Southbound Great River Road looking southeast.** Looking southeast at the Highway 42 Route Segment.



Photopoint 1 - **Southbound Great River Road looking southeast.** Looking southeast at the Highway 42 Route Segment.



Photopoint 2 - Southbound Great River Road. Looking southeast at the Alternative 345 kV Route.



Photopoint 2 - **Southbound Great River Road.** Looking southeast at the Alternative 345 kV Route.



Photopoint 3 - **Southbound Great River Road.** Looking southeast at the Alternative 345 kV Route.



Photopoint 3 - **Southbound Great River Road.** Looking southeast at the Alternative 345 kV Route.





Photopoint 3 - **Southbound Great River Road.** Looking southeast at the Preferred 345 kV Route.



Photopoint 3 - **Southbound Great River Road.** Looking southeast at the Preferred 345 kV Route.

SUMMARY OF HOUSE COUNTS WITHIN 300 FEET OF REFERENCE CENTERLINE

The following provides a summary of the Applicant's analysis of house counts within 300 feet of the reference route centerlines that were presented in the Draft Environmental Impact Statement ("DEIS") and in the Applicant's Route Permit Application ("RPA"). Based on review of the DEIS and Applicant's GIS information, aerial oblique and street view photography and some field checks, the Applicant has revised the house counts for each segment as described in this summary. At the end of each segment discussion there is a chart showing the distance to the house from the reference centerline. Revised house counts by route are shown in Tables 1-6 at the end of the document.

The point of measurement on each house is an important consideration when determining distance to a route centerline. The DEIS house measuring point was used unless the house was identified only by the Applicant, in which case the Applicant's measuring location was used.

1.0 Hampton to North Rochester 345 kV Preferred Route

The DEIS lists 46 houses; the RPA lists 29. The Applicant's revised house count is 37 based on the following:

- The DEIS includes 10 businesses and one church, which were removed from the revised count.
- The DEIS adds 5 houses not included in the Applicant's count. These houses are located in densely wooded areas and were not visible from aerial photos or from public property. These were included in the revised count.
- The DEIS measuring point moved 3 houses closer to the reference centerline than the Applicant had placed them originally. These were included in the revised count.
- Two houses identified by the Applicant were not included in the DEIS house count. These houses were reconfirmed by the Applicant and included in the revised count. Each is a second house located at a single farmstead.

0'-75'	76'-150'	151'-300'	Revised Total
1	12	24	37

2.0 Hampton to North Rochester 345 kV Alternative Route

The DEIS lists 13 houses; the RPA lists 12. The Applicant's revised count is 13. The additional house in the DEIS is due to measurement margin of error. The Applicant reviewed the measurement and included the additional house in the revised count.

0'-75'	76'-150'	151'-300'	Revised Total
1	3	9	13

3.0 North Rochester to Mississippi River 345 kV Preferred Route

The DEIS lists 5 houses; the RPA list 8. The Applicant's revised house count is 7. The Applicant reviewed these locations and maintained them in the revised house count except for one, which was removed from the count as it was classified as a storage building.

0'-75'	76'-150'	151'-300'	Revised Total
0	1	6	7

4.0 North Rochester to Mississippi 345 kV Alternative Route

The DEIS lists 3 houses; the RPA lists 5. The Applicant's revised count is 4. The Applicant reviewed these locations and maintained them in the revised house count except for one house where the location of the house on the property is clearly not within the 300-foot buffer.

0'-75'	76'-150'	151'-300'	Revised Total
0	0	4	4

5.0 North Rochester to Northern Hills 161 kV Preferred Route

The DEIS lists 59 houses; the RPA lists 54. The Applicant's revised house count is 59. The difference is due to:

- The DEIS includes one business which was removed from the revised count.
- The DEIS measuring point is closer to the reference centerline than where the Applicant had placed it originally and adds a second house to a property where Applicant showed one. This house was included in the revised count.
- The DEIS adds 3 additional houses not included in the Applicant's count which were included in the revised count.
- Two structures identified as houses by the Applicant were not included in the DEIS house count. Upon further review, one was included in the revised count and one was not because it was classified as a garage.

01-40'	41'-75'	76'-150'	151'-300'	Revised Total
0	4	15	40	59

6.0 North Rochester to Northern Hills 161 kV Alternative Route

The DEIS lists 28 houses; the RPA lists 33. The Applicant's revised house count is 34. The difference is due to 6 houses identified by the Applicant that were not included in the DEIS and 1 house location that was moved closer to the reference centerline in the DEIS being included in the revised count.

01-40'	41'-75"	76'-150'	151'-300'	Revised Total
0	1	5	28	34

TABLE 1: Hampton to North Rochester 345 kV Modified Preferred Route

Source	Residences 0-75 feet from Route Centerline	Residences 76-150 feet from Route Centerline	Residences 151- 300 feet from Route Centerline	Total Residences 0-300 feet from proposed Route Centerline
Route Permit Application	0	8	21	29
DEIS	1	13	32	46
Revised House Count	1	12	24	37

TABLE 2: Hampton to North Rochester 345 kV Alternate Route

Source	Residences 0-75 feet from Route Centerline	Residences 76-150 feet from Route Centerline	Residences 151- 300 feet from Route Centerline	Total Residences 0-300 feet from proposed Route Centerline
Route Permit Application	0	2	10	12
DEIS	1	3	9	13
Revised House Count	1	3	9	13

TABLE 3: North Rochester to Mississippi River 345 kV Modified Preferred Route

Source	Residences 0-75 feet from Route Centerline	Residences 76-150 feet from Route Centerline	Residences 151- 300 feet from Route Centerline	Total Residences 0-300 feet from proposed Route Centerline
Route Permit Application	0	2	6	8
DEIS	0	1	4	5
Revised House Count	0	1	6	7

TABLE 4: North Rochester to Mississippi River 345 kV Alternate Route

Source	Residences 0-75 feet from Route Centerline	Residences 76-150 feet from Route Centerline	Residences 151- 300 feet from Route Centerline	Total Residences 0-300 feet from Proposed Route Centerline
Route Permit Application	0	0	5	5
DEIS	0	0	3	3
Revised House Count	0	0	4	4

TABLE 5: North Rochester to Northern Hills 161 kV Preferred Route

Source	Residences 0-40 feet	Residences 41-75 feet	Residences 41-100 feet	Residences 76-150 feet	Residences 151-300	Residences 101-300	Total Residences 0-300 feet
Route Permit Application	0	0	1	14	40		54
DEIS	0		7			52	59
Revised House Count	0	4		15	40		59

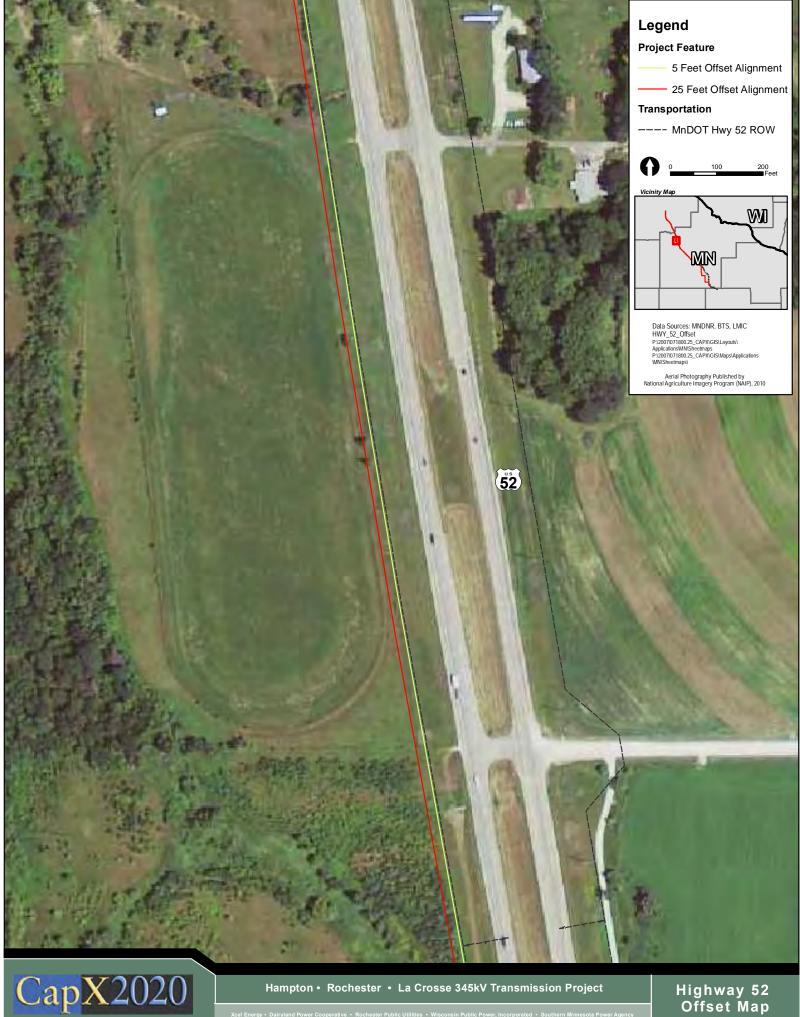
¹ The Route Permit Application and the DEIS did not use the same distances for measuring house impacts. A dash Is used to signify where there is no count for a particular category.

MPUC Docket No. E002/TL-09-1448 OAH Docket No. 7-2500-20283-2 Hillstrom Direct - Schedule 8 Page 7 of 7

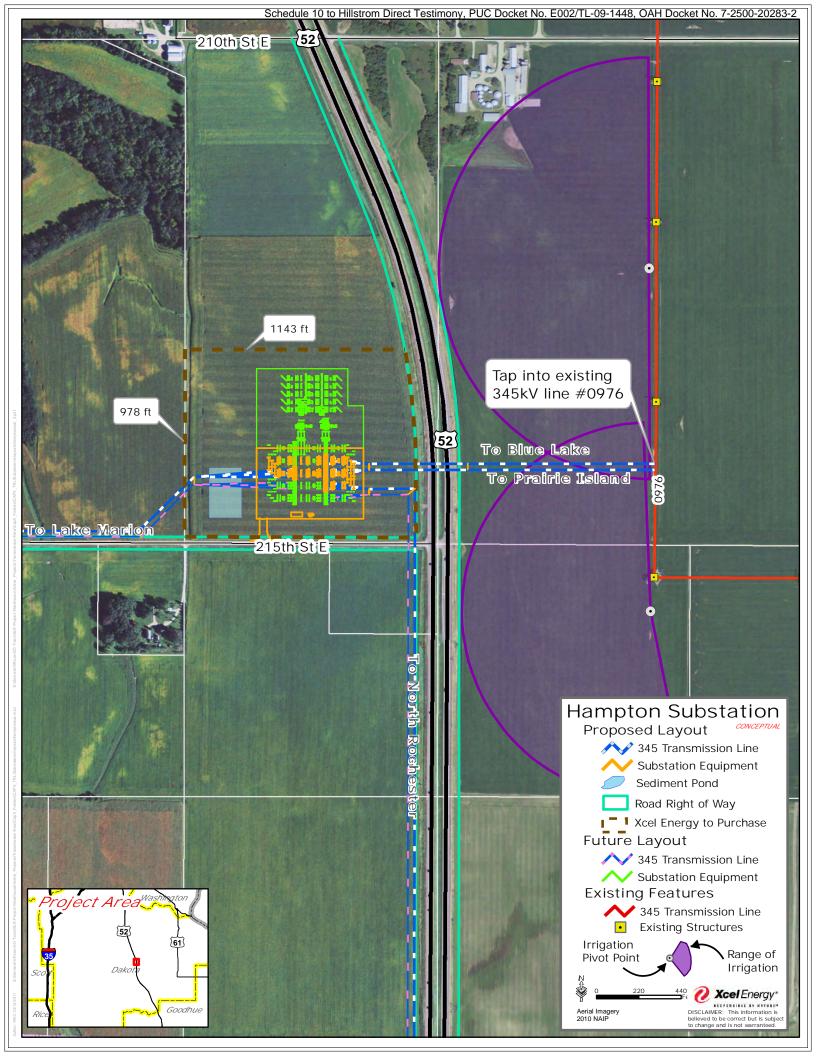
TABLE 6: North Rochester to Northern Hills 161 kV Alternate Route

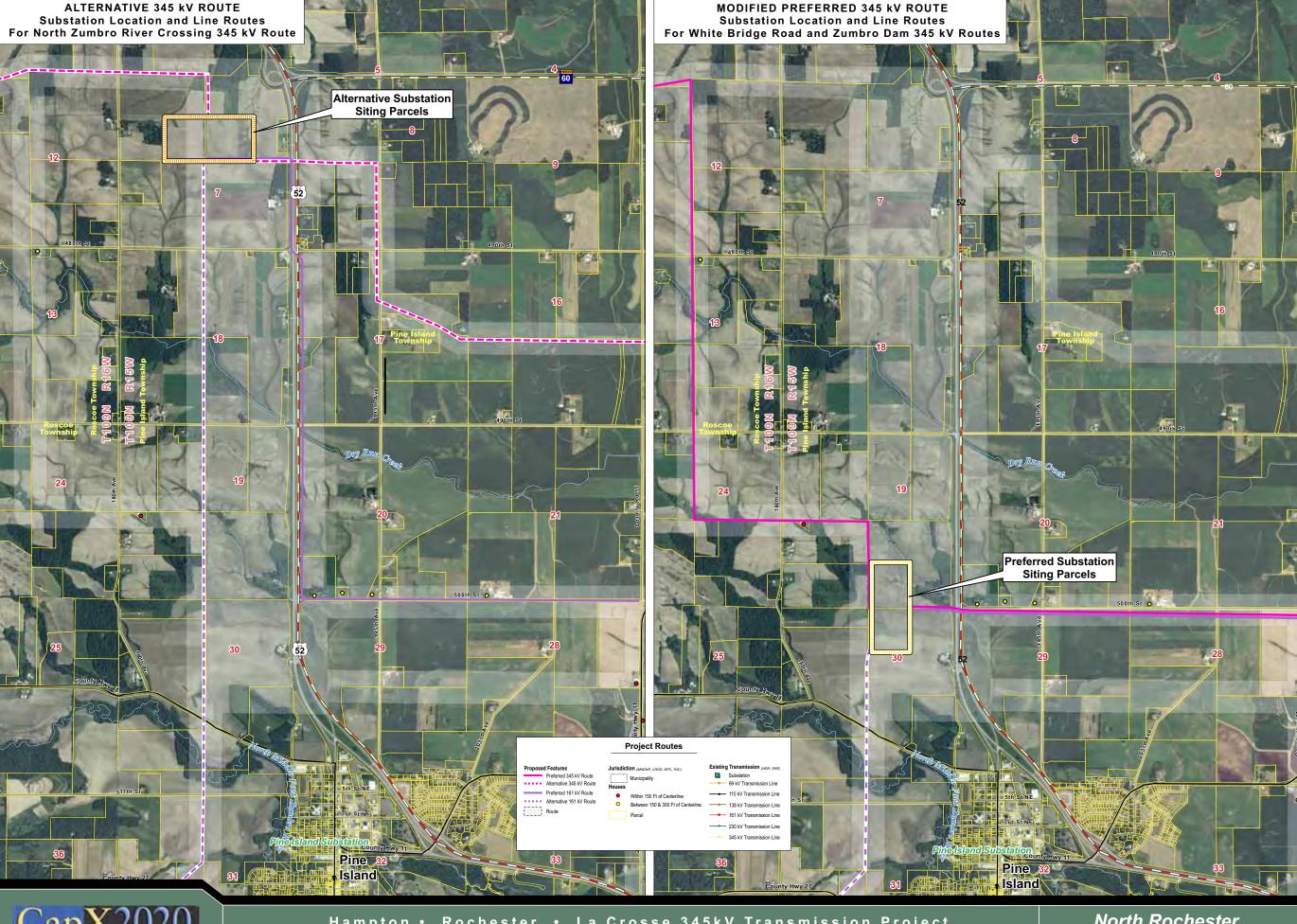
Source	Residences 0-40 feet	Residences 41-75 feet	Residences 41-100 feet	Residences 76-150 feet	Residences 151-300	Residences 101-300	Total Residences 0-300 feet
Route Permit Application	0	0		5	28		33
DEIS	0		1			27	28
Revised House Count	0	1		5	29		34

3786572v3



Schedule 9 to Hillstrom Direct Testimony, PUC Docket No. E002/TL-09-1448, OAH Docket No. 7-2500-20283-





Hampton • Rochester • La Crosse 345kV Transmission Project

North Rochester Substation Siting Area

