

**City of Norman**  
**ADA Self-Evaluation and Transition Plan**  
**Unsignalized Intersection Cost Projection Summary - Parks**  
4/30/2018

| <b>GPS ID</b> | <b>Project Name</b>  | <b>Cost Projection</b> | <b>Priority</b> |
|---------------|--|------------------------|-----------------|
| 2000          | Intersection of Andrews Park and W Daws St                                   | \$ 10,000              | 2               |
| 2001          | Intersection of Andrews Park and W Daws St                                   | \$ 15,000              | 2               |
| 2002          | Intersection of Andrews Park and N Park Ave                                  | \$ 8,000               | 2               |
| 2003          | Intersection of Andrews Park and N James Garner Ave                          | \$ 39,000              | 2               |
| 90000         | Intersection of Andrews Park and parking lot (Lat.35.2237; Long.-97.4486)    | \$ 9,000               | 2               |
| 90001         | Intersection of Andrews Park and parking lot (Lat.35.2238; Long.-97.4489)    | \$ 2,000               | 3               |
| 90002         | Intersection of Andrews Park and N Park Ave                                  | \$ 2,000               | 3               |
| 90004         | Intersection of Andrews Park and parking lot (Lat.35.2235; Long.-97.4491)    | \$ 8,000               | 2               |
| 90015         | Intersection of Lions Park and parking lot (Lat.35.2138; Long.-97.4543)      | \$ 11,000              | 2               |
| 90016         | Intersection of Lions Park and Pickard Ave                                   | \$ 22,000              | 2               |
| 90017         | Intersection of Westwood Park and parking lot (Lat.35.2318; Long.-97.4778)   | \$ 7,000               | 2               |
| 90018         | Intersection of Westwood Park and parking lot (Lat.35.2313; Long.-97.4776)   | \$ 5,000               | 2               |
| 90019         | Intersection of Westwood Park and parking lot (Lat.35.2311; Long.-97.4776)   | \$ 4,000               | 2               |
| 90105         | Intersection of Westwood Park and parking lot (Lat. 35.231; Long. -97.4777)  | \$ 1,000               | 9               |
| 90106         | Intersection of Westwood Park and parking lot (Lat. 35.2308; Long. -97.4779) | \$ -                   | Compliant       |
| 90107         | Intersection of Westwood Park and parking lot (Lat. 35.2308; Long. -97.478)  | \$ 1,000               | 9               |
| <b>TOTAL</b>  |  | <b>\$ 144,000</b>      |                 |

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Andrews Park GPS ID: 2000  
 Project Name: Intersection of Andrews Park and W Daws St  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price                     | Item Cost           |
|------------------|---|----------|------|--------------------------------|---------------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50                        | \$ -                |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00                        | \$ -                |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 7        | SY   | \$ 50.00                       | \$ 350.00           |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 0        | SF   | \$ 25.00                       | \$ -                |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00                       | \$ -                |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 6        | SY   | \$ 12.00                       | \$ 72.00            |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25                        | \$ -                |
| ---              | Crosswalk Pavement Markings               | 52       | LF   | \$ 6.00                        | \$ 312.00           |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00                    | \$ -                |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00                    | \$ -                |
| ---              | Fix Curb Ramp Transition                  | 2        | LS   | \$ 2,000.00                    | \$ 4,000.00         |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00                    | \$ -                |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00                      | \$ -                |
| ---              | Fix Curb Ramp Counter Slope               | 1        | LS   | \$ 2,000.00                    | \$ 2,000.00         |
|                  |   |          |      | Subtotal:                      | \$ 6,734.00         |
|                  |   |          |      | Engineering: (% +/-)           | 15% \$ 1,399.71     |
|                  |   |          |      | Contingency: (% +/-)           | 20% \$ 1,866.29     |
|                  |   |          |      | <b>Estimated Project Cost:</b> | <b>\$ 10,000.00</b> |

Basis for Cost Projection  
 No Design Completed  
 Preliminary Design  
 Final Design

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |     |     |      | Possible Solutions                  |
|---|-----------|-----|-----|------|-------------------------------------|
|   | N         | E   | S   | W    |                                     |
| Path of travel pavement condition   | N/A       | N/A | N/A | Good |                                     |
| Path of travel running slope is greater than 5%                           | N/A       | N/A | N/A |      |                                     |
| Path of travel cross slope is greater than 2% for stop control approaches | N/A       | N/A | N/A | N/A  |                                     |
| Path of travel cross slope is greater than 5% for free-flow approaches    | N/A       | N/A | N/A |      |                                     |
| Crosswalk width is less than 6'   | N/A       | N/A | N/A | N/A  | Install crosswalk pavement markings |
| Crosswalk striping condition  | N/A       | N/A | N/A | None |                                     |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions              |
|---|--|----|----|----|---------------------------------|
|   | 1A   | 2z | 3z | 4A |                                 |
| Curb ramp does not exist and is needed  |  |    |    |    |                                 |
| Curb ramp does not land in crosswalk  |  |    |    |    |                                 |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    |                                 |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |    |    |                                 |
| Flare cross slope is greater than 10%   |  |    |    |    |                                 |
| Curb ramp running slope is greater than 8.3%  |  |    |    |    |                                 |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |                                 |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |                                 |
| Curb ramp cross slope is greater than 2%  |  |    |    |    |                                 |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |                                 |
| Curb ramp width is less than 48"  |  |    |    |    |                                 |
| Cut-thru ramp width is less than 60"  |  |    |    |    |                                 |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |                                 |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |                                 |
| No textured surface at base of curb ramp  |  |    |    |    |                                 |
| No color contrast at base of curb ramp  |  |    |    |    |                                 |
| Landing area does not exist and is needed   |  |    |    |    | Remove and replace landing area |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  |    |    | X  |                                 |
| Curb ramp transition onto roadway is greater than 0.25"                               | X  |    |    | X  | Fix curb ramp transition        |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% | X  |    |    |    | Fix curb ramp counter slope     |
| Ponding occurs at base of curb ramp   |  |    |    |    |                                 |

Comment: Existing sidewalk, curb ramp, and/or striping configurations permit pedestrians to cross the major street. An Engineering study is needed to confirm crossing should be accommodated at this location and the current crossing treatment is appropriate.



Ramp 1A



Corner 2 No Ramp (2z)



Corner 3 No Ramp (3z)



Ramp 4A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

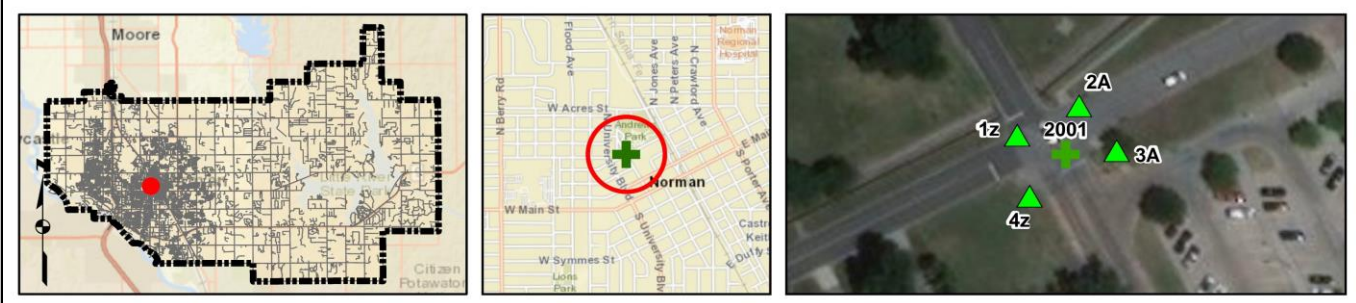
Corridor : Andrews Park GPS ID: 2001  
 Project Name: Intersection of Andrews Park and W Daws St  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 15       | SY   | \$ 50.00    | \$ 750.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 20       | SF   | \$ 25.00    | \$ 500.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -        |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 21       | SY   | \$ 12.00    | \$ 252.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 50       | LF   | \$ 6.00     | \$ 300.00   |
| ---              | Repave Roadway                            | 1        | LS   | \$ 5,000.00 | \$ 5,000.00 |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |

Basis for Cost Projection

|   |                                |                     |
|---|--------------------------------|---------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ 10,802.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ 1,799.14     |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ 2,398.86     |
|   | <b>Estimated Project Cost:</b> | <b>\$ 15,000.00</b> |

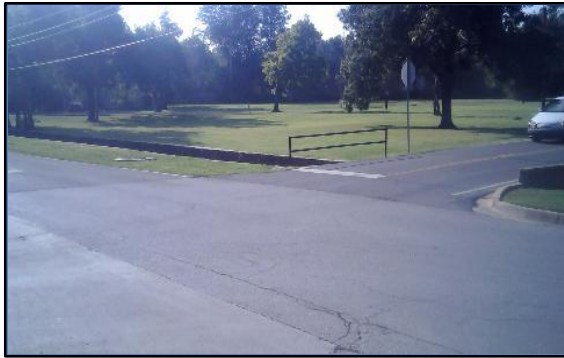
**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |      |     |     | Possible Solutions                                     |
|---|-----------|------|-----|-----|--|
|   | N         | E    | S   | W   |  |
| Path of travel pavement condition   | N/A       | Poor | N/A | N/A | Repave roadway and install crosswalk pavement markings |
| Path of travel running slope is greater than 5%                           | N/A       |      | N/A | N/A |  |
| Path of travel cross slope is greater than 2% for stop control approaches | N/A       |      | N/A | N/A |  |
| Path of travel cross slope is greater than 5% for free-flow approaches    | N/A       | N/A  | N/A | N/A |  |
| Crosswalk width is less than 6'   | N/A       | N/A  | N/A | N/A | Install crosswalk pavement markings                    |
| Crosswalk striping condition  | N/A       | None | N/A | N/A |  |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions   |
|---|--|----|----|----|--|
|   | 1z   | 2A | 3A | 4z |  |
| Curb ramp does not exist and is needed  |  |    |    |    | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |    |    |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    |  |
| Curbed side is not 90° or has traversable adjacent surface                            |  | X  | X  |    |  |
| Flare cross slope is greater than 10%   |  |    |    |    |  |
| Curb ramp running slope is greater than 8.3%  |  |    | X  |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |  |
| Curb ramp cross slope is greater than 2%  |  |    |    |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |  |
| Curb ramp width is less than 48"  |  |    |    |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Cut-thru ramp width is less than 60"  |  |    |    |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| No textured surface at base of curb ramp  |  | X  | X  |    |  |
| No color contrast at base of curb ramp  |  | X  | X  |    |  |
| Landing area does not exist and is needed   |  |    |    |    |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  | X  | X  |    |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |    | X  |    |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |    |    |  |
| Ponding occurs at base of curb ramp   |  |    |    |    | Fix curb ramp counter slope  |



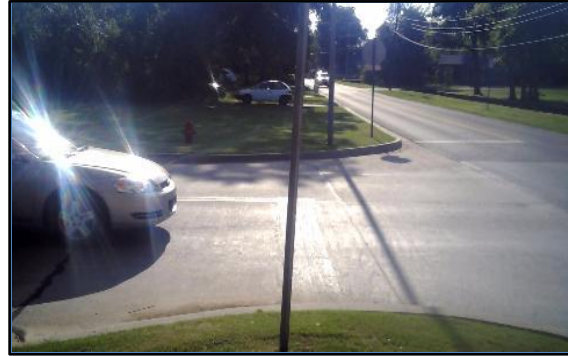
Corner 1 No Ramp (1z)



Ramp 2A



Ramp 3A



Corner 4 No Ramp (4z)

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**Project Location Map Sources:**

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Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

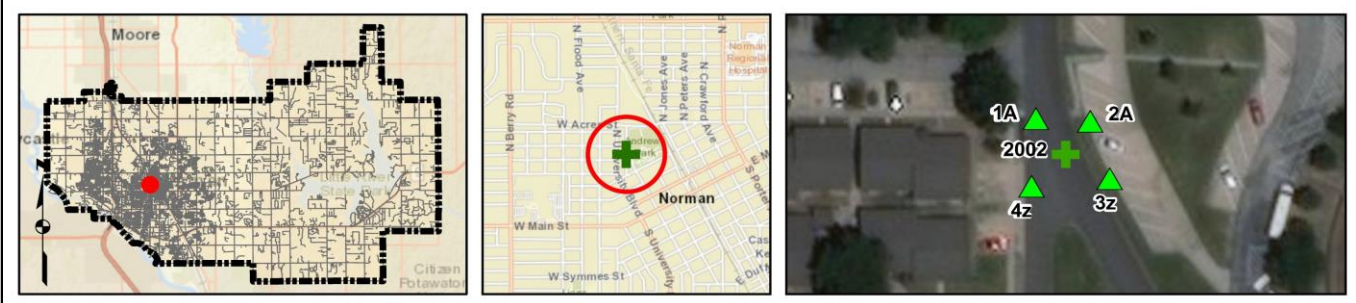
Corridor : Andrews Park GPS ID: 2002  
 Project Name: Intersection of Andrews Park and N Park Ave  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 8        | SY   | \$ 50.00    | \$ 400.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 10       | SF   | \$ 25.00    | \$ 250.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 10       | SF   | \$ 60.00    | \$ 600.00   |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 10       | SY   | \$ 12.00    | \$ 120.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 52       | LF   | \$ 6.00     | \$ 312.00   |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |

Basis for Cost Projection

|   |                                |                    |
|---|--------------------------------|--------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ 5,682.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ 993.43      |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ 1,324.57    |
|   | <b>Estimated Project Cost:</b> | <b>\$ 8,000.00</b> |

**Project Location**



**Field Observations**

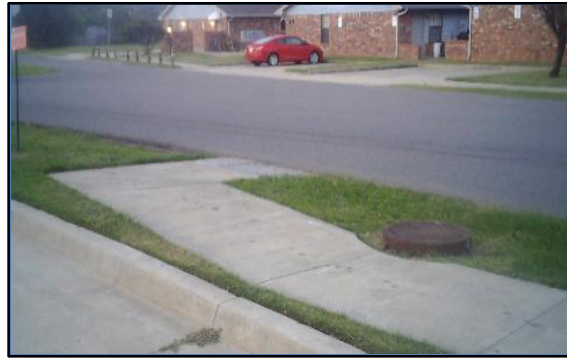
| Intersection Issues   | Crosswalk |     |     |     | Possible Solutions                  |
|---|-----------|-----|-----|-----|-------------------------------------|
|   | N         | E   | S   | W   |                                     |
| Path of travel pavement condition   | Good      | N/A | N/A | N/A |                                     |
| Path of travel running slope is greater than 5%                           |           | N/A | N/A | N/A |                                     |
| Path of travel cross slope is greater than 2% for stop control approaches | N/A       | N/A | N/A | N/A |                                     |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           | N/A | N/A | N/A |                                     |
| Crosswalk width is less than 6'   | N/A       | N/A | N/A | N/A | Install crosswalk pavement markings |
| Crosswalk striping condition  | None      | N/A | N/A | N/A |                                     |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions   |
|---|--|----|----|----|--|
|   | 1A   | 2A | 3z | 4z |  |
| Curb ramp does not exist and is needed  |  |    |    |    | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |    |    |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    |  |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |    |    |  |
| Flare cross slope is greater than 10%   |  |    |    |    |  |
| Curb ramp running slope is greater than 8.3%  |  |    |    |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |  |
| Curb ramp cross slope is greater than 2%  |  | X  |    |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |  |
| Curb ramp width is less than 48"  |  |    |    |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Cut-thru ramp width is less than 60"  |  |    |    |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| No textured surface at base of curb ramp  | X  |    |    |    |  |
| No color contrast at base of curb ramp  | X  | X  |    |    |  |
| Landing area does not exist and is needed   |  |    |    |    |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  | X  |    |    |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  | X  |    |    |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  | X  |    |    |  |
| Ponding occurs at base of curb ramp   |  |    |    |    | Fix curb ramp counter slope  |

Comment: Existing sidewalk, curb ramp, and/or striping configurations permit pedestrians to cross the major street. An Engineering study is needed to confirm crossing should be accommodated at this location and the current crossing treatment is appropriate.



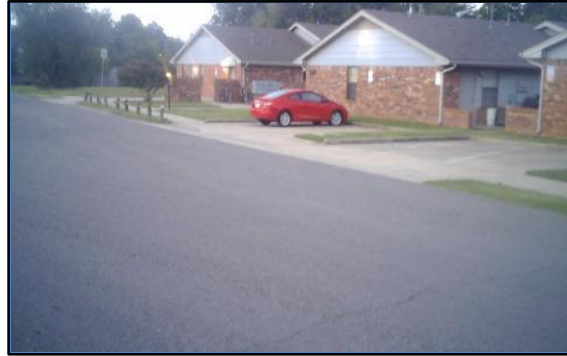
Ramp 1A



Ramp 2A



Corner 3 No Ramp (3z)



Corner 4 No Ramp (4z)

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 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

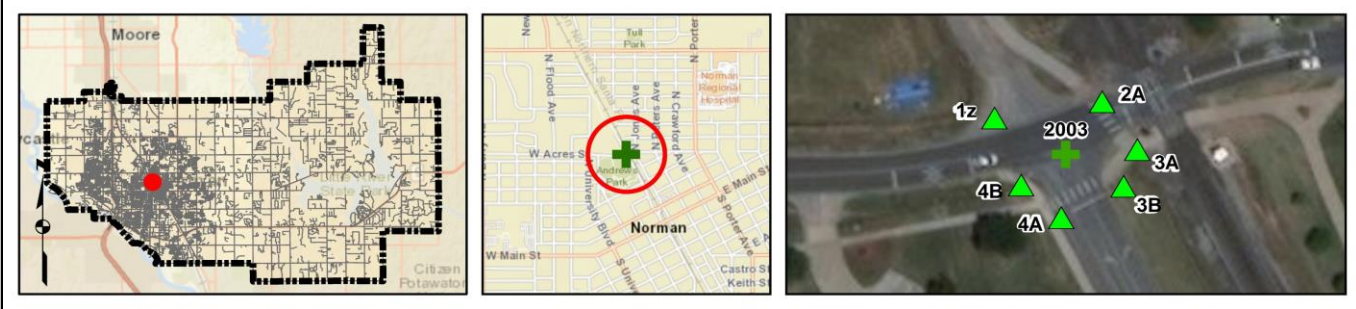
Corridor : Andrews Park GPS ID: 2003  
 Project Name: Intersection of Andrews Park and N James Garner Ave  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost    |
|------------------|---|----------|------|-------------|--------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -         |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -         |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 50       | SY   | \$ 50.00    | \$ 2,500.00  |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 60       | SF   | \$ 25.00    | \$ 1,500.00  |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -         |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 50       | SY   | \$ 12.00    | \$ 600.00    |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -         |
| ---              | Crosswalk Pavement Markings               | 184      | LF   | \$ 6.00     | \$ 1,104.00  |
| ---              | Repave Roadway                            | 3        | LS   | \$ 5,000.00 | \$ 15,000.00 |
| ---              | Fix Ponding                               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00  |
| ---              | Fix Curb Ramp Transition                  | 3        | LS   | \$ 2,000.00 | \$ 6,000.00  |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -         |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -         |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -         |

Basis for Cost Projection

|   |                                |                     |
|---|--------------------------------|---------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ 28,704.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ 4,412.57     |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ 5,883.43     |
|   | <b>Estimated Project Cost:</b> | <b>\$ 39,000.00</b> |

**Project Location**



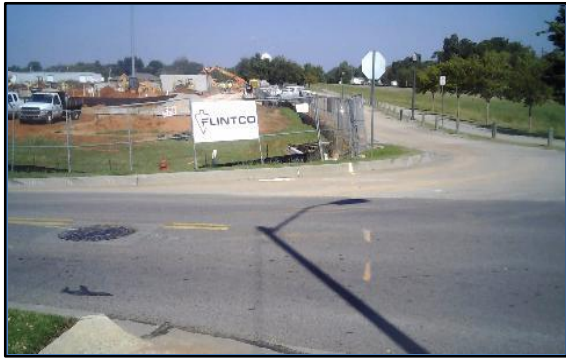
**Field Observations**

| Intersection Issues   | Crosswalk |           |           |           | Possible Solutions                                     |
|---|-----------|-----------|-----------|-----------|--|
|   | N         | E         | S         | W         |  |
| Path of travel pavement condition   | N/A       | Dangerous | Dangerous | Dangerous | Repave roadway and install crosswalk pavement markings |
| Path of travel running slope is greater than 5%                           | N/A       |           |           |           |  |
| Path of travel cross slope is greater than 2% for stop control approaches | N/A       | N/A       | X         | N/A       |  |
| Path of travel cross slope is greater than 5% for free-flow approaches    | N/A       |           | N/A       |           | Install crosswalk pavement markings                    |
| Crosswalk width is less than 6'   | N/A       |           | N/A       | N/A       |  |
| Crosswalk striping condition  | N/A       | Good      | None      | None      |  |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    |    |    | Possible Solutions                                      |
|---|--|----|----|----|----|----|---|
|   | 1z   | 2A | 3A | 3B | 4A | 4B |   |
| Curb ramp does not exist and is needed  | X  |    |    |    |    |    | Install curb ramp; if median improvement, see shapefile |
| Curb ramp does not land in crosswalk  |  |    |    |    |    |    |   |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    |    |    |   |
| Curbed side is not 90° or has traversable adjacent surface                            |  | X  | X  | X  |    |    |   |
| Flare cross slope is greater than 10%   |  |    |    |    | X  |    |   |
| Curb ramp running slope is greater than 8.3%  |  |    |    | X  | X  |    |   |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |    |    |   |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |    |    |   |
| Curb ramp cross slope is greater than 2%  |  | X  | X  |    |    | X  |   |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |    | X  |   |
| Curb ramp width is less than 48"  |  |    |    |    |    | X  |   |
| Cut-thru ramp width is less than 60"  |  |    |    |    |    | X  |   |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    | X  |    | X  |    | Remove and replace curb ramp                            |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |    |    |   |
| No textured surface at base of curb ramp  |  |    | X  | X  | X  | X  |   |
| No color contrast at base of curb ramp  |  |    | X  | X  | X  | X  |   |
| Landing area does not exist and is needed   |  |    |    |    |    | X  |   |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  | X  | X  | X  | X  | X  |   |
| Curb ramp transition onto roadway is greater than 0.25"                               |  | X  |    |    | X  | X  |   |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |    |    |    | X  |   |
| Ponding occurs at base of curb ramp   |  |    |    |    |    | X  |   |
|   |  |    |    |    |    | X  |   |

Comment: Existing sidewalk, curb ramp, and/or striping configurations permit pedestrians to cross the major street. An Engineering study is needed to confirm crossing should be accommodated at this location and the current crossing treatment is appropriate.





Corner 1 No Ramp (1z)



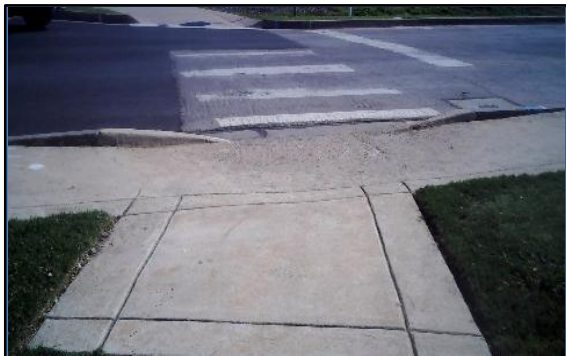
Ramp 2A



Ramp 3A



Ramp 3B



Ramp 4A



Ramp 4B

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

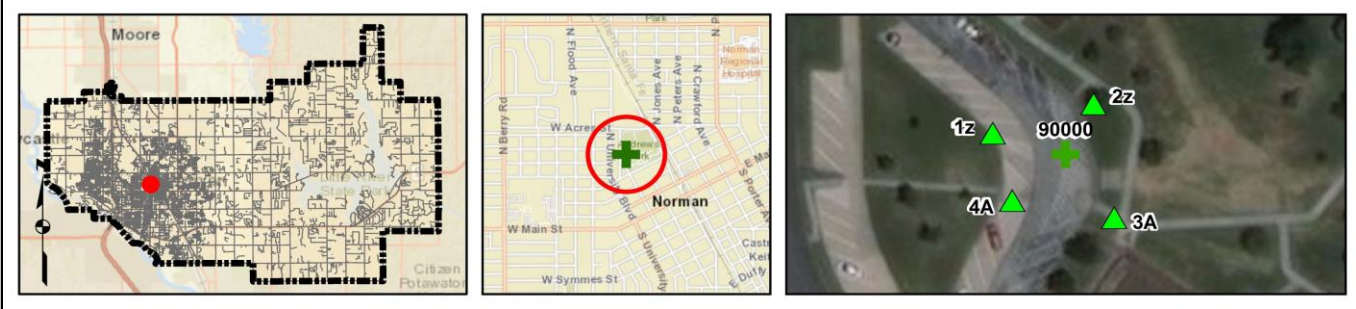
Corridor : Andrews Park GPS ID: 90000  
 Project Name: Intersection of Andrews Park and parking lot (Lat.35.2237; Long.-97.4486)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 21       | SY   | \$ 50.00    | \$ 1,050.00 |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 20       | SF   | \$ 25.00    | \$ 500.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 10       | SF   | \$ 60.00    | \$ 600.00   |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 10       | SY   | \$ 12.00    | \$ 120.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 2        | LS   | \$ 2,000.00 | \$ 4,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -        |

Basis for Cost Projection

|   |                                   |                 |
|---|-----------------------------------|-----------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal: \$                      | 6,270.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)              | 15% \$ 1,170.00 |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)              | 20% \$ 1,560.00 |
|   | <b>Estimated Project Cost: \$</b> | <b>9,000.00</b> |

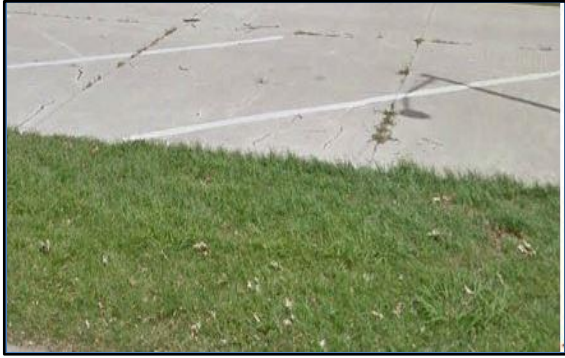
**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions   |
|---|--|----|----|----|--|
|   | 1z   | 2z | 3A | 4A |  |
| Curb ramp does not exist and is needed  |  | X  |    |    | Install curb ramp; if median improvement, see shapefile                              |
| Curb ramp does not land in crosswalk  |  |    |    |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    | Remove and replace curb ramp   |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |    |    |  |
| Flare cross slope is greater than 10%   |  |    | X  |    |  |
| Curb ramp running slope is greater than 8.3%  |  |    |    |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |  |
| Curb ramp cross slope is greater than 2%  |  |    | X  |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |  |
| Curb ramp width is less than 48"  |  |    |    |    |  |
| Cut-thru ramp width is less than 60"  |  |    |    |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    | X  |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| No textured surface at base of curb ramp  |  |    | X  | X  |  |
| No color contrast at base of curb ramp  |  |    | X  | X  |  |
| Landing area does not exist and is needed   |  |    |    |    | Remove and replace landing area  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  |    |    | X  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |    | X  | X  | Fix curb ramp transition   |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |    |    |  |
| Ponding occurs at base of curb ramp   |  |    |    |    |  |



Corner 1 No Ramp (1z)



Corner 2 No Ramp (2z)



Ramp 3A



Ramp 4A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Andrews Park GPS ID: 90001  
 Project Name: Intersection of Andrews Park and parking lot (Lat.35.2238; Long.-97.4489)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost |
|------------------|---|----------|------|-------------|-----------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -      |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -      |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 11       | SY   | \$ 50.00    | \$ 550.00 |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 10       | SF   | \$ 25.00    | \$ 250.00 |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -      |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 0        | SY   | \$ 12.00    | \$ -      |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -      |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -      |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Fix Curb Ramp Transition                  | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -      |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -      |

Basis for Cost Projection

|   |                                |                    |
|---|--------------------------------|--------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ 800.00          |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ 514.29      |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ 685.71      |
|   | <b>Estimated Project Cost:</b> | <b>\$ 2,000.00</b> |

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |  | Possible Solutions                                      |
|---|--|--|---|
|   | 1z   |  |   |
| Curb ramp does not exist and is needed  | X  |  | Install curb ramp; if median improvement, see shapefile |
| Curb ramp does not land in crosswalk  |  |  |   |
| No 4' x 4' clear space at base of curb ramp   |  |  |   |
| Curbed side is not 90° or has traversable adjacent surface                            |  |  |   |
| Flare cross slope is greater than 10%   |  |  |   |
| Curb ramp running slope is greater than 8.3%  |  |  |   |
| Blended transition running slope is greater than 5%                                   |  |  |   |
| Cut-thru ramp running slope is greater than 5%  |  |  |   |
| Curb ramp cross slope is greater than 2%  |  |  |   |
| Cut-thru ramp cross slope is greater than 2%  |  |  |   |
| Curb ramp width is less than 48"  |  |  |   |
| Cut-thru ramp width is less than 60"  |  |  |   |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |  |   |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |  |   |
| No textured surface at base of curb ramp  |  |  |   |
| No color contrast at base of curb ramp  |  |  |   |
| Landing area does not exist and is needed   |  |  |   |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  |  |   |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |  |   |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |  |   |
| Ponding occurs at base of curb ramp   |  |  |   |



Corner 1 No Ramp (1z)

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Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Andrews Park GPS ID: 90002  
 Project Name: Intersection of Andrews Park and N Park Ave  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost |
|------------------|---|----------|------|-------------|-----------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -      |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -      |
| ODOT 610(A)-0602 | 14" Concrete Sidewalk                     | 11       | SY   | \$ 50.00    | \$ 550.00 |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 10       | SF   | \$ 25.00    | \$ 250.00 |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -      |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 0        | SY   | \$ 12.00    | \$ -      |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -      |
| ---              | Crosswalk Pavement Markings               | 42       | LF   | \$ 6.00     | \$ 252.00 |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Fix Curb Ramp Transition                  | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -      |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -      |

Basis for Cost Projection

|   |                                |           |                 |
|---|--------------------------------|-----------|-----------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$        | 1,052.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15%       | \$ 406.29       |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20%       | \$ 541.71       |
|   | <b>Estimated Project Cost:</b> | <b>\$</b> | <b>2,000.00</b> |

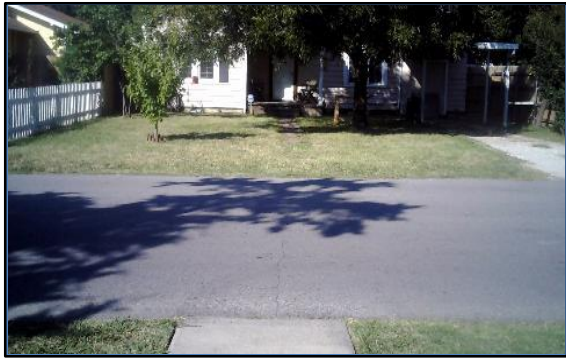
**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |     |     |     | Possible Solutions                  |
|---|-----------|-----|-----|-----|-------------------------------------|
|   | N         | E   | S   | W   |                                     |
| Path of travel pavement condition   | Good      | N/A | N/A | N/A |                                     |
| Path of travel running slope is greater than 5%                           |           | N/A | N/A | N/A |                                     |
| Path of travel cross slope is greater than 2% for stop control approaches |           | N/A | N/A | N/A |                                     |
| Path of travel cross slope is greater than 5% for free-flow approaches    | N/A       | N/A | N/A | N/A |                                     |
| Crosswalk width is less than 6'   | N/A       | N/A | N/A | N/A | Install crosswalk pavement markings |
| Crosswalk striping condition  | None      | N/A | N/A | N/A |                                     |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions                                      |
|---|--|----|----|----|---|
|   | 1z   | 2z | 3z | 4z |   |
| Curb ramp does not exist and is needed  |  | X  |    |    | Install curb ramp; if median improvement, see shapefile |
| Curb ramp does not land in crosswalk  |  |    |    |    |   |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    |   |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |    |    |   |
| Flare cross slope is greater than 10%   |  |    |    |    |   |
| Curb ramp running slope is greater than 8.3%  |  |    |    |    |   |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |   |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |   |
| Curb ramp cross slope is greater than 2%  |  |    |    |    |   |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |   |
| Curb ramp width is less than 48"  |  |    |    |    |   |
| Cut-thru ramp width is less than 60"  |  |    |    |    |   |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |   |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |   |
| No textured surface at base of curb ramp  |  |    |    |    |   |
| No color contrast at base of curb ramp  |  |    |    |    |   |
| Landing area does not exist and is needed   |  |    |    |    |   |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  |    |    |    |   |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |    |    |    |   |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |    |    |   |
| Ponding occurs at base of curb ramp   |  |    |    |    |   |



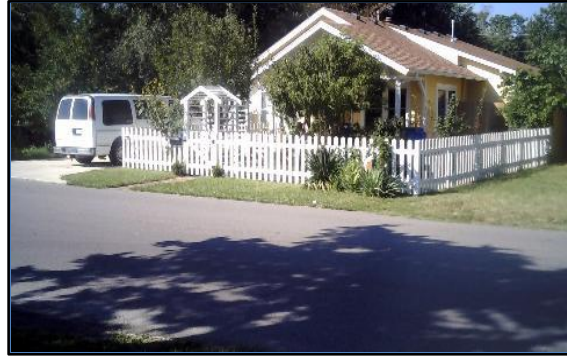
Corner 1 No Ramp (1z)



Corner 2 No Ramp (2z)



Corner 3 No Ramp (3z)



Corner 4 No Ramp (4z)

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Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Andrews Park GPS ID: 90004  
 Project Name: Intersection of Andrews Park and parking lot (Lat.35.2235; Long.-97.4491)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 11       | SY   | \$ 50.00    | \$ 550.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 10       | SF   | \$ 25.00    | \$ 250.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 10       | SF   | \$ 60.00    | \$ 600.00   |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 12       | SY   | \$ 12.00    | \$ 144.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |

Basis for Cost Projection

|   |                                |                    |
|---|--------------------------------|--------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ 5,544.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ 1,052.57    |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ 1,403.43    |
|   | <b>Estimated Project Cost:</b> | <b>\$ 8,000.00</b> |

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    | Possible Solutions   |
|---|--|----|--|
|   | 1A   | 2A |  |
| Curb ramp does not exist and is needed  |  |    | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |  |
| Curbed side is not 90° or has traversable adjacent surface                            | X  |    |  |
| Flare cross slope is greater than 10%   |  |    |  |
| Curb ramp running slope is greater than 8.3%  | X  |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |  |
| Curb ramp cross slope is greater than 2%  |  |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |  |
| Curb ramp width is less than 48"  | X  |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Cut-thru ramp width is less than 60"  |  |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| No textured surface at base of curb ramp  |  | X  |  |
| No color contrast at base of curb ramp  | X  | X  |  |
| Landing area does not exist and is needed   |  |    |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  | X  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  | X  |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% | X  |    |  |
| Ponding occurs at base of curb ramp   |  |    | Fix curb ramp transition   |
|   |  |    | Fix curb ramp counter slope  |





Ramp 1A



Ramp 2A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

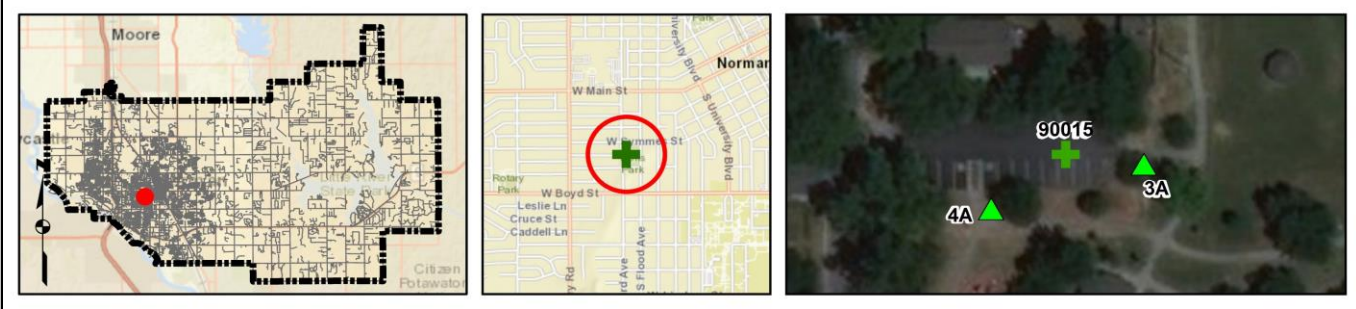
Corridor : Lions Park GPS ID: 90015  
 Project Name: Intersection of Lions Park and parking lot (Lat.35.2138; Long.-97.4543)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 14" Concrete Sidewalk                     | 15       | SY   | \$ 50.00    | \$ 750.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 20       | SF   | \$ 25.00    | \$ 500.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -        |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 24       | SY   | \$ 12.00    | \$ 288.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 2        | LS   | \$ 2,000.00 | \$ 4,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |

Basis for Cost Projection

|   |   |
|---|---|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal: \$ 7,538.00                       |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-) 15% \$ 1,483.71        |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-) 20% \$ 1,978.29        |
|   | <b>Estimated Project Cost: \$ 11,000.00</b> |

**Project Location**



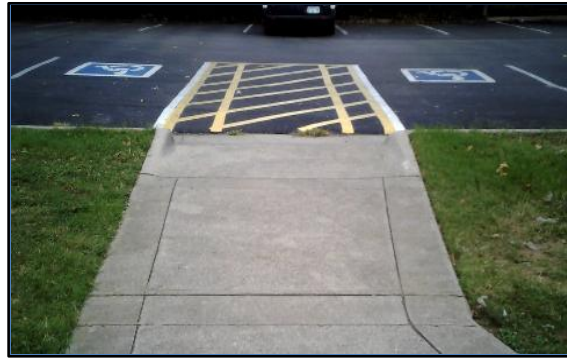
**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    | Possible Solutions   |
|---|--|----|--|
|   | 3A   | 4A |  |
| Curb ramp does not exist and is needed  |  |    | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |  |
| Curbed side is not 90° or has traversable adjacent surface                            | X  | X  |  |
| Flare cross slope is greater than 10%   |  |    |  |
| Curb ramp running slope is greater than 8.3%  |  |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |  |
| Curb ramp cross slope is greater than 2%  |  | X  |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |  |
| Curb ramp width is less than 48"  |  |    | For intersection, commercial driveway, and park ramps, install color truncated domes       |
| Cut-thru ramp width is less than 60"  |  |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| No textured surface at base of curb ramp  |  | X  |  |
| No color contrast at base of curb ramp  |  | X  |  |
| Landing area does not exist and is needed   |  |    |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  | X  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               | X  | X  |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  | X  |  |
| Ponding occurs at base of curb ramp   |  |    | Remove and replace landing area<br>Fix curb ramp transition<br>Fix curb ramp counter slope |



Ramp 3A



Ramp 4A

**Opinion of Probable Construction Cost Disclaimer:**

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

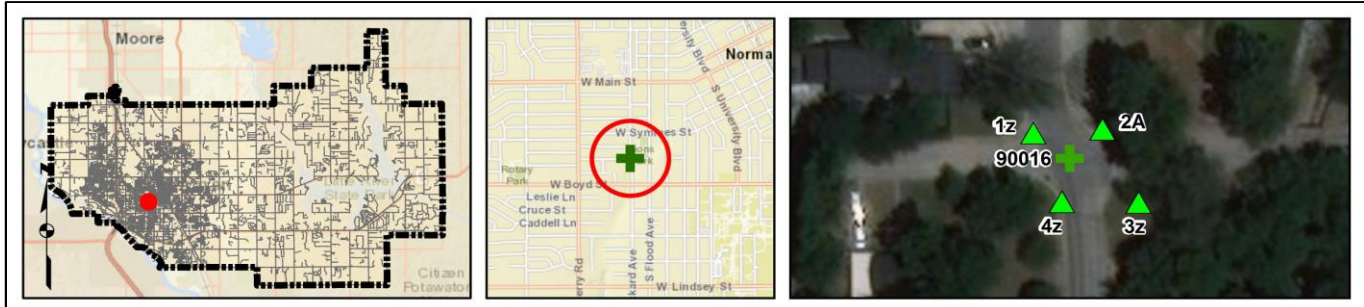
Corridor : Lions Park GPS ID: 90016  
 Project Name: Intersection of Lions Park and Pickard Ave  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost    |
|------------------|---|----------|------|-------------|--------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -         |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -         |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 42       | SY   | \$ 50.00    | \$ 2,100.00  |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 40       | SF   | \$ 25.00    | \$ 1,000.00  |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -         |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 18       | SY   | \$ 12.00    | \$ 216.00    |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -         |
| ---              | Crosswalk Pavement Markings               | 162      | LF   | \$ 6.00     | \$ 972.00    |
| ---              | Repave Roadway                            | 2        | LS   | \$ 5,000.00 | \$ 10,000.00 |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -         |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00  |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -         |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -         |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -         |

Basis for Cost Projection

|   |                                |           |                  |
|---|--------------------------------|-----------|------------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$        | 16,288.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15%       | \$ 2,448.00      |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20%       | \$ 3,264.00      |
|   | <b>Estimated Project Cost:</b> | <b>\$</b> | <b>22,000.00</b> |

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |      |     |     | Possible Solutions                                     |
|---|-----------|------|-----|-----|--|
|   | N         | E    | S   | W   |  |
| Path of travel pavement condition   | Dangerous | Good | N/A | N/A | Repave roadway and install crosswalk pavement markings |
| Path of travel running slope is greater than 5%                           |           |      | N/A | N/A |  |
| Path of travel cross slope is greater than 2% for stop control approaches | N/A       | X    | N/A | N/A |  |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           | N/A  | N/A | N/A | Install crosswalk pavement markings                    |
| Crosswalk width is less than 6'   | N/A       | N/A  | N/A | N/A |  |
| Crosswalk striping condition  | None      | None | N/A | N/A |  |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    |    |    | Possible Solutions   |
|---|--|----|----|----|--|
|   | 1z   | 2A | 3z | 4z |  |
| Curb ramp does not exist and is needed  | X  |    | X  |    | Install curb ramp; if median improvement, see shapefile                              |
| Curb ramp does not land in crosswalk  |  |    |    |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |    |    | Remove and replace curb ramp   |
| Curbed side is not 90° or has traversable adjacent surface                            |  | X  |    |    |  |
| Flare cross slope is greater than 10%   |  |    |    |    |  |
| Curb ramp running slope is greater than 8.3%  |  |    |    |    |  |
| Blended transition running slope is greater than 5%                                   |  |    |    |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |    |    |  |
| Curb ramp cross slope is greater than 2%  |  |    |    |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |    |    |  |
| Curb ramp width is less than 48"  |  |    |    |    |  |
| Cut-thru ramp width is less than 60"  |  |    |    |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |    |    |  |
| No textured surface at base of curb ramp  |  | X  |    |    | Remove and replace landing area  |
| No color contrast at base of curb ramp  |  | X  |    |    |  |
| Landing area does not exist and is needed   |  |    |    |    | Fix curb ramp transition   |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  | X  |    |    |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  | X  |    |    |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |    |    |  |
| Ponding occurs at base of curb ramp   |  |    |    |    |  |

Comment: Existing sidewalk, curb ramp, and/or striping configurations permit pedestrians to cross the major street. An Engineering study is needed to confirm crossing should be accommodated at this location and the current crossing treatment is appropriate.



Corner 1 No Ramp (1z)



Ramp 2A



Corner 3 No Ramp (3z)



Corner 4 No Ramp (4z)

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90017  
 Project Name: Intersection of Westwood Park and parking lot (Lat.35.2318; Long.-97.4778)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 3        | SY   | \$ 50.00    | \$ 150.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 0        | SF   | \$ 25.00    | \$ -        |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 10       | SF   | \$ 60.00    | \$ 600.00   |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 3        | SY   | \$ 12.00    | \$ 36.00    |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -        |

Basis for Cost Projection

|   |                                |           |                 |
|---|--------------------------------|-----------|-----------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$        | 4,786.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15%       | \$ 948.86       |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20%       | \$ 1,265.14     |
|   | <b>Estimated Project Cost:</b> | <b>\$</b> | <b>7,000.00</b> |

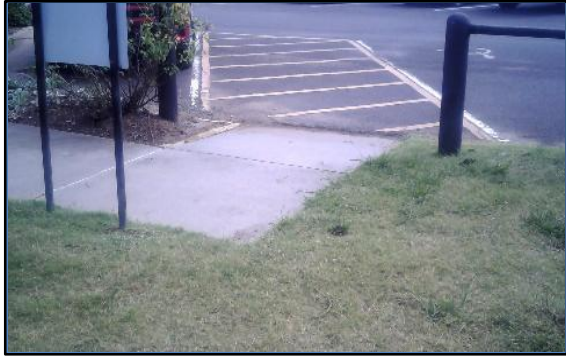
**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |  | Possible Solutions   |
|---|--|--|--|
|   | 1A   |  |  |
| Curb ramp does not exist and is needed  |  |  | For intersection, commercial driveway, and park ramps, install color truncated domes<br><br>Remove and replace landing area<br>Fix curb ramp transition<br><br>Fix ponding |
| Curb ramp does not land in crosswalk  |  |  |  |
| No 4' x 4' clear space at base of curb ramp   |  |  |  |
| Curbed side is not 90° or has traversable adjacent surface                            |  |  |  |
| Flare cross slope is greater than 10%   |  |  |  |
| Curb ramp running slope is greater than 8.3%  |  |  |  |
| Blended transition running slope is greater than 5%                                   |  |  |  |
| Cut-thru ramp running slope is greater than 5%  |  |  |  |
| Curb ramp cross slope is greater than 2%  |  |  |  |
| Cut-thru ramp cross slope is greater than 2%  |  |  |  |
| Curb ramp width is less than 48"  |  |  |  |
| Cut-thru ramp width is less than 60"  |  |  |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |  |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |  |  |
| No textured surface at base of curb ramp  | X  |  |  |
| No color contrast at base of curb ramp  | X  |  |  |
| Landing area does not exist and is needed   |  |  |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  |  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               | X  |  |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |  |  |
| Ponding occurs at base of curb ramp   | X  |  |  |



Ramp 1A

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90018  
 Project Name: Intersection of Westwood Park and parking lot (Lat.35.2313; Long.-97.4776)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 14" Concrete Sidewalk                     | 15       | SY   | \$ 50.00    | \$ 750.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 20       | SF   | \$ 25.00    | \$ 500.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -        |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 25       | SY   | \$ 12.00    | \$ 300.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -        |

Basis for Cost Projection

|   |                                |           |                 |
|---|--------------------------------|-----------|-----------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$        | 3,550.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15%       | \$ 621.43       |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20%       | \$ 828.57       |
|   | <b>Estimated Project Cost:</b> | <b>\$</b> | <b>5,000.00</b> |

**Project Location**

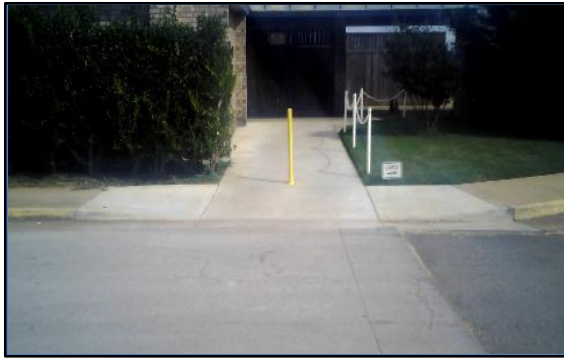


**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    | Possible Solutions   |
|---|--|----|--|
|   | 2A   | 3A |  |
| Curb ramp does not exist and is needed  |  |    | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |    |  |
| No 4' x 4' clear space at base of curb ramp   |  |    |  |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |  |
| Flare cross slope is greater than 10%   |  |    |  |
| Curb ramp running slope is greater than 8.3%  | X  | X  |  |
| Blended transition running slope is greater than 5%                                   |  |    |  |
| Cut-thru ramp running slope is greater than 5%  |  |    |  |
| Curb ramp cross slope is greater than 2%  |  |    |  |
| Cut-thru ramp cross slope is greater than 2%  |  |    |  |
| Curb ramp width is less than 48"  |  |    | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Cut-thru ramp width is less than 60"  |  |    |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |  |
| No textured surface at base of curb ramp  | X  | X  |  |
| No color contrast at base of curb ramp  | X  | X  |  |
| Landing area does not exist and is needed   |  |    |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  | X  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               |  | X  |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |  |
| Ponding occurs at base of curb ramp   |  |    | Fix curb ramp transition   |





Ramp 2A



Ramp 3A

**Opinion of Probable Construction Cost Disclaimer:**

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90019  
 Project Name: Intersection of Westwood Park and parking lot (Lat.35.2311; Long.-97.4776)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost   |
|------------------|---|----------|------|-------------|-------------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -        |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -        |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 8        | SY   | \$ 50.00    | \$ 400.00   |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 10       | SF   | \$ 25.00    | \$ 250.00   |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -        |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 11       | SY   | \$ 12.00    | \$ 132.00   |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -        |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -        |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -        |
| ---              | Fix Curb Ramp Transition                  | 1        | LS   | \$ 2,000.00 | \$ 2,000.00 |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -        |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -        |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -        |

Basis for Cost Projection

|   |                                |           |                 |
|---|--------------------------------|-----------|-----------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$        | 2,782.00        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15%       | \$ 522.00       |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20%       | \$ 696.00       |
|   | <b>Estimated Project Cost:</b> | <b>\$</b> | <b>4,000.00</b> |

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |  | Possible Solutions   |
|---|--|--|--|
|   | 2A   |  |  |
| Curb ramp does not exist and is needed  |  |  | Remove and replace curb ramp   |
| Curb ramp does not land in crosswalk  |  |  |  |
| No 4' x 4' clear space at base of curb ramp   |  |  |  |
| Curbed side is not 90° or has traversable adjacent surface                            |  |  |  |
| Flare cross slope is greater than 10%   |  |  |  |
| Curb ramp running slope is greater than 8.3%  | X  |  |  |
| Blended transition running slope is greater than 5%                                   |  |  |  |
| Cut-thru ramp running slope is greater than 5%  |  |  |  |
| Curb ramp cross slope is greater than 2%  |  |  |  |
| Cut-thru ramp cross slope is greater than 2%  |  |  |  |
| Curb ramp width is less than 48"  | X  |  | For intersection, commercial driveway, and park ramps, install color truncated domes |
| Cut-thru ramp width is less than 60"  |  |  |  |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |  |  |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |  |  |
| No textured surface at base of curb ramp  | X  |  |  |
| No color contrast at base of curb ramp  | X  |  |  |
| Landing area does not exist and is needed   |  |  |  |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  |  |  |
| Curb ramp transition onto roadway is greater than 0.25"                               | X  |  |  |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |  |  |
| Ponding occurs at base of curb ramp   |  |  |  |



Ramp 2A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90105  
 Project Name: Intersection of Westwood Park and parking lot (Lat. 35.231; Long. -97.4777)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost |
|------------------|---|----------|------|-------------|-----------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -      |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -      |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 3        | SY   | \$ 50.00    | \$ 150.00 |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 0        | SF   | \$ 25.00    | \$ -      |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -      |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 3        | SY   | \$ 12.00    | \$ 36.00  |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -      |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -      |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Fix Curb Ramp Transition                  | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -      |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -      |

Basis for Cost Projection

|   |  |
|---|--|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal: \$ 186.00                        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-) 15% \$ 348.86         |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-) 20% \$ 465.14         |
|   | <b>Estimated Project Cost: \$ 1,000.00</b> |

**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |  | Possible Solutions              |
|---|--|--|---------------------------------|
|   | 1A   |  |                                 |
| Curb ramp does not exist and is needed  |  |  | Remove and replace landing area |
| Curb ramp does not land in crosswalk  |  |  |                                 |
| No 4' x 4' clear space at base of curb ramp   |  |  |                                 |
| Curbed side is not 90° or has traversable adjacent surface                            |  |  |                                 |
| Flare cross slope is greater than 10%   |  |  |                                 |
| Curb ramp running slope is greater than 8.3%  |  |  |                                 |
| Blended transition running slope is greater than 5%                                   |  |  |                                 |
| Cut-thru ramp running slope is greater than 5%  |  |  |                                 |
| Curb ramp cross slope is greater than 2%  |  |  |                                 |
| Cut-thru ramp cross slope is greater than 2%  |  |  |                                 |
| Curb ramp width is less than 48"  |  |  |                                 |
| Cut-thru ramp width is less than 60"  |  |  |                                 |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |  |                                 |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |  |                                 |
| No textured surface at base of curb ramp  |  |  |                                 |
| No color contrast at base of curb ramp  |  |  |                                 |
| Landing area does not exist and is needed   |  |  |                                 |
| Landing area is less than 5' x 5' or slopes greater than 2%                           | X  |  |                                 |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |  |                                 |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |  |                                 |
| Ponding occurs at base of curb ramp   |  |  |                                 |



Ramp 1A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90106  
 Project Name: Intersection of Westwood Park and parking lot (Lat. 35.2308; Long. -97.4779)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost |
|------------------|---|----------|------|-------------|-----------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -      |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -      |
| ODOT 610(A)-0602 | 14" Concrete Sidewalk                     | 0        | SY   | \$ 50.00    | \$ -      |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 0        | SF   | \$ 25.00    | \$ -      |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -      |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 0        | SY   | \$ 12.00    | \$ -      |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -      |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -      |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Fix Curb Ramp Transition                  | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -      |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -      |

Basis for Cost Projection

|   |                                |             |
|---|--------------------------------|-------------|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal:                      | \$ -        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-)           | 15% \$ -    |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-)           | 20% \$ -    |
|   | <b>Estimated Project Cost:</b> | <b>\$ -</b> |

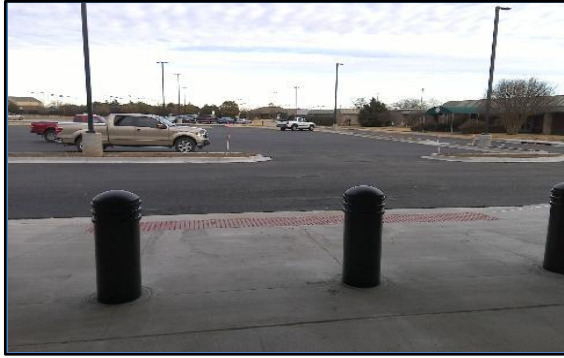
**Project Location**



**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |  | Possible Solutions |
|---|--|--|--------------------|
|   | 4A   |  |                    |
| Curb ramp does not exist and is needed  |  |  |                    |
| Curb ramp does not land in crosswalk  |  |  |                    |
| No 4' x 4' clear space at base of curb ramp   |  |  |                    |
| Curbed side is not 90° or has traversable adjacent surface                            |  |  |                    |
| Flare cross slope is greater than 10%   |  |  |                    |
| Curb ramp running slope is greater than 8.3%  |  |  |                    |
| Blended transition running slope is greater than 5%                                   |  |  |                    |
| Cut-thru ramp running slope is greater than 5%  |  |  |                    |
| Curb ramp cross slope is greater than 2%  |  |  |                    |
| Cut-thru ramp cross slope is greater than 2%  |  |  |                    |
| Curb ramp width is less than 48"  |  |  |                    |
| Cut-thru ramp width is less than 60"  |  |  |                    |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |  |                    |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |  |                    |
| No textured surface at base of curb ramp  |  |  |                    |
| No color contrast at base of curb ramp  |  |  |                    |
| Landing area does not exist and is needed   |  |  |                    |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  |  |                    |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |  |                    |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |  |                    |
| Ponding occurs at base of curb ramp   |  |  |                    |



Ramp 4A

**Opinion of Probable Construction Cost Disclaimer:**

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**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

Client: City of Norman Date: 4/30/18  
 Program: ADA Self-Evaluation and Transition Plan Prepared By: CMP  
 KHA No.: 061298800 Checked By: EPE

Corridor : Westwood Park GPS ID: 90107  
 Project Name: Intersection of Westwood Park and parking lot (Lat. 35.2308; Long. -97.478)  
 City: Norman

| Item No.         | Item Description                          | Quantity | Unit | Unit Price  | Item Cost |
|------------------|---|----------|------|-------------|-----------|
| ODOT 202(A)-0183 | Unclassified Excavation                   | 0        | CY   | \$ 5.50     | \$ -      |
| ODOT 609(A)-0300 | Concrete Curb (6" Barrier-Integral)       | 0        | LF   | \$ 7.00     | \$ -      |
| ODOT 610(A)-0602 | 4" Concrete Sidewalk                      | 3        | SY   | \$ 50.00    | \$ 150.00 |
| ODOT 610(I)-4610 | Tactile Warning Device - New              | 0        | SF   | \$ 25.00    | \$ -      |
| ODOT 610(I)-4615 | Tactile Warning Device - Retrofit         | 0        | SF   | \$ 60.00    | \$ -      |
| ODOT 619(B)-4792 | Removal of Sidewalk                       | 3        | SY   | \$ 12.00    | \$ 36.00  |
| ODOT 857(F)-8006 | Pavement Marking Removal (Traffic Stripe) | 0        | LF   | \$ 0.25     | \$ -      |
| ---              | Crosswalk Pavement Markings               | 0        | LF   | \$ 6.00     | \$ -      |
| ---              | Repave Roadway                            | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Fix Ponding                               | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Fix Curb Ramp Transition                  | 0        | LS   | \$ 2,000.00 | \$ -      |
| ---              | Median Nose Modification                  | 0        | LS   | \$ 5,000.00 | \$ -      |
| ---              | Remove Temporary Obstruction              | 0        | LS   | \$ 500.00   | \$ -      |
| ---              | Fix Curb Ramp Counter Slope               | 0        | LS   | \$ 2,000.00 | \$ -      |

Basis for Cost Projection

|   |  |
|---|--|
| <input checked="" type="checkbox"/> No Design Completed | Subtotal: \$ 186.00                        |
| <input type="checkbox"/> Preliminary Design             | Engineering: (% +/-) 15% \$ 348.86         |
| <input type="checkbox"/> Final Design                   | Contingency: (% +/-) 20% \$ 465.14         |
|   | <b>Estimated Project Cost: \$ 1,000.00</b> |

**Project Location**

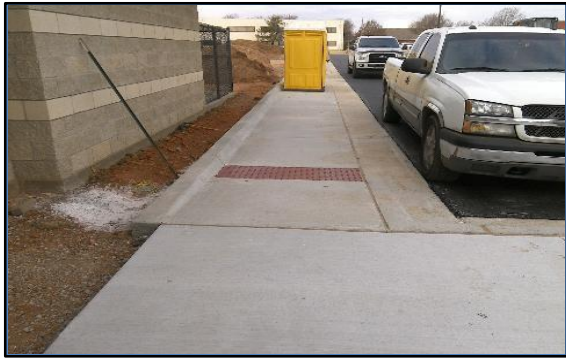


**Field Observations**

| Intersection Issues   | Crosswalk |   |   |   | Possible Solutions  |
|---|-----------|---|---|---|---|
|   | N         | E | S | W |   |
| Path of travel pavement condition   |           |   |   |   | All driveway path of travel issues and possible solutions provided in driveway shapefile (TRPEDDRV) |
| Path of travel running slope is greater than 5%                           |           |   |   |   |   |
| Path of travel cross slope is greater than 2% for stop control approaches |           |   |   |   |   |
| Path of travel cross slope is greater than 5% for free-flow approaches    |           |   |   |   |   |
| Crosswalk width is less than 6'   |           |   |   |   |   |
| Crosswalk striping condition  |           |   |   |   |   |

| Curb Ramp Issues  | Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) |    | Possible Solutions              |
|---|--|----|---------------------------------|
|   | 3A   | 4A |                                 |
| Curb ramp does not exist and is needed  |  |    |                                 |
| Curb ramp does not land in crosswalk  |  |    |                                 |
| No 4' x 4' clear space at base of curb ramp   |  |    |                                 |
| Curbed side is not 90° or has traversable adjacent surface                            |  |    |                                 |
| Flare cross slope is greater than 10%   |  |    |                                 |
| Curb ramp running slope is greater than 8.3%  |  |    |                                 |
| Blended transition running slope is greater than 5%                                   |  |    |                                 |
| Cut-thru ramp running slope is greater than 5%  |  |    |                                 |
| Curb ramp cross slope is greater than 2%  |  |    |                                 |
| Cut-thru ramp cross slope is greater than 2%  |  |    |                                 |
| Curb ramp width is less than 48"  |  |    |                                 |
| Cut-thru ramp width is less than 60"  |  |    |                                 |
| Permanent obstruction (>0.25") in curb ramp/landing/flares                            |  |    |                                 |
| Temporary obstruction (>0.25") in curb ramp/landing/flares                            |  |    |                                 |
| No textured surface at base of curb ramp  |  |    |                                 |
| No color contrast at base of curb ramp  |  |    |                                 |
| Landing area does not exist and is needed   |  |    |                                 |
| Landing area is less than 5' x 5' or slopes greater than 2%                           |  | X  | Remove and replace landing area |
| Curb ramp transition onto roadway is greater than 0.25"                               |  |    |                                 |
| Counter slope of the gutter or street at the foot of the curb ramp is greater than 5% |  |    |                                 |
| Ponding occurs at base of curb ramp   |  |    |                                 |





Ramp 3A



Ramp 4A

**Opinion of Probable Construction Cost Disclaimer:**

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

**Project Location Map Sources:**

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community