# City of Des Moines

## PLAN OF PROPOSED IMPROVEMENT FOR THE

**Northside Library Parking Lot Expansion**

**ACTIVITY ID 04-2021-006**

The urban standard specifications for public improvements, plus current supplemental specifications and special provisions shall apply to construction work on this project.

**Scales**

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<td>A1</td>
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<td>A3</td>
<td>Notes and Credits</td>
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<td>Lighting and Electrical</td>
</tr>
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<td>Parking Lot Lighting and Electrical Plan</td>
</tr>
<tr>
<td>J1</td>
<td>Traffic Control, Signing, and Traffic Control Equipment</td>
</tr>
<tr>
<td>L1</td>
<td>Jointing, Pavement Elevations, Offsets and Details</td>
</tr>
<tr>
<td>L2</td>
<td>Pavement Elevations, Offsets</td>
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<td>L3</td>
<td>Pavement, Trench Details</td>
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<td>M1</td>
<td>Storm Sewer</td>
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<tr>
<td>M2</td>
<td>Storm Sewer Plan and Profile</td>
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<td>S1</td>
<td>Sidewalk Layout</td>
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<td>S2</td>
<td>Sidewalk and Traffic Control Plan</td>
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<td>W1</td>
<td>Cross Sections</td>
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<tr>
<td>W2</td>
<td>Parking Lot Cross Sections</td>
</tr>
<tr>
<td>X1</td>
<td>Landscaping Plan</td>
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</table>

**Utility Contacts**

Iowa One Call: 1-800-292-8989

CenturyLink: Dustin Witmer, 515-263-7202

Des Moines Water Works: Katie Kinsey, 515-283-8796

Mediacom Paul May, 515-246-2252

Mid American Energy: Michael Younts, 515-252-6555

**City Engineer, Licensed P.E.**

APPROVED: 3/10/2023

**Iowa City**

**Department of Engineering**

**City of Des Moines, Iowa**
Northside Library

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>START STATION</th>
<th>START NORTING</th>
<th>START EASTING</th>
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<td>5</td>
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<td>592464.904</td>
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<td>104.725</td>
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</table>

BENCHMARK

△

△

GRAPHIC SCALE
Typical Section - Parking Lot

Profile Form Grade
Varies

6'' Subgrade Preparation
6'' Modified Subbase
6'' P.C. Concrete Pavement

Notes:
Normal section shown may be appropriately modified for areas specifically designated by the engineer, such as intersections or the ends of the project.

Construct curb & gutter 20' (Sta 0+31.4 to Sta 0+47.4) to end from Sta 0+31.4 to Sta 1+19.4

42.5' (Sta 0+31.4 to Sta 0+47.4)
58.5' (Sta 0+47.4 to Sta 1+32.9)
85' (Sta 0+31.4 to Sta 0+47.4)

Slope varies

See jointing plan for joint layout

Type 2 Geogrid

6'' Subbase

See plan for location

6'' P.C. Concrete Pavement
6'' Modified Subbase
6'' Subgrade Preparation

TYPICAL CROSS SECTION
PARKING LOT

Type 2 Geogrid

Existing Ground

NOTES:
① Std.6" curb. Refer to Figure 7802 for details.
② Prior to placement verify with the Engineer that Geogrid is required.
GENERAL NOTES

UTILITIES: The contractor shall coordinate his work with the utility companies with respect to relocating and constructing their facilities. Forty-eight (48) hours before construction call, Iowa One Call for utility locations, phone number 1-800-292-9899.

The cost of staging construction for utility installation, providing temporary supports for all utilities with assistance from affected utility company, and all costs involved in coordinating with utilities shall be included in and considered incidental to the contract bid price; and no additional compensation shall be allowed.

The contractor shall exercise all due caution and use construction methods and equipment to complete the work without damaging utilities.

The contractor shall determine the exact location and elevation of all utilities at the time of construction.

ABANDONED UTILITY LINES: All removal and disposal of abandoned utility lines including gas mains, water mains, telephone conduits, service lines, etc., required to complete the work shall be incidental to the contract.

INSPECTION: The contractor shall contact the Principal Construction Inspector for the City of Des Moines Engineering Department (283-4177) 24 hours before beginning construction.

LOOP DETECTORS: Care shall be taken when doing construction around loop detectors not scheduled for replacement. Repair of any damage to existing detectors will be the contractor's responsibility.

PROGRESS OF WORK: The contractor shall schedule his work and the work of his subcontractors in such a manner that will ensure a minimal amount of inconvenience to the abutting property owners. If the engineer determines the progress of the work is unsatisfactory, partial payments will be withheld in full or part until satisfactory progress is made.

CONSTRUCTION LIMITS: The contractor shall not disturb desirable grass areas and desirable trees outside of construction limits. The contractor shall not park service vehicles and equipment, or use these areas for storage of materials. Storage, parking, and service areas shall be subject to the approval of the Engineer or as designated in the plans. The contractor shall access the site in manner that does not damage existing paved surfaces, sidewalks, and trails that are not designated to be replaced. Any damage to these surfaces shall be repaired at the Contractor’s expense as approved by the Engineer.

STORM/SANITARY SEWERS: The Contractor shall maintain flow at all times. The Contractor shall be responsible for flow diverting and/or bypass pumping required to facilitate construction. The costs for maintaining, diverting, or pumping shall be incidental to the contract.

The Contractor shall protect all storm sewer inlets and curbs from sight disturbance and debris during construction. The Contractor shall place an inlet protection device over inlets and manholes prior to placement of pavement to prevent soil from entering the sewer.

The Contractor shall have a representative at the final inspection and will be responsible to open all manholes and intakes for inspection by City personell.

FIXTURE ADJUSTMENTS: Coordinate with Des Moines Water Work to get any water valves adjusted prior to rerouting. Coordinate with other utilities for fixture adjustment. City of Des Moines sanitary and storm manhole adjustment will be paid for by bid item.

PROJECT SCHEDULE: The contractor will provide schedule to the Project Engineer in order to assist in project tracking. The contractor will continually update as the schedule changes.

TRAFFIC CONTROL: No additional payment will be given for traffic control required while installing permanent pavement markings. This shall be incidental to the pavement marking and paving growing items.

DAMAGE TO ADJACENT PROPERTIES: The contractor is responsible use construction methods that prevent damage to adjacent buildings, including damage from excessive vibration.

PAVEMENT REMOVAL: Existing pavement to be removed shall be saw cut at removal limits unless otherwise specified by the Engineer. Unnecessary surface breaks or premature spalling that occurs during the removal process shall be repaired at the Contractor’s expense. The method of repair will be subject to the approval of the Engineer. All hot mix asphalt and concrete removed shall become the property of the Contractor for disposal unless otherwise specified in the plans.

REINFORCING STEEL: All reinforcing steel dowels and tie bars used in the paving and in-place structures shall be epoxy-coated.

SITE CLEANUP: The Contractor shall clean all surfaces prior to opening the project to the public. Pickup broom or street sweeper that creates a minimal amount of dust shall be used for cleaning. All costs for cleaning shall be incidental to the contract.

MAINTENANCE OF POSTAL SERVICE: Whenever construction impedes the delivery of mail from adjacent homes and/or business from the work area, the Contractor shall be responsible for providing temporary mailboxes. This work shall be in accordance with SUDAS Section 11030.01.

MAINTENANCE OF SOLID WASTE COLLECTION: Whenever construction impedes the pick-up of trash from adjacent homes and/or business from the work area, the Contractor shall be responsible for moving and placing trash bins, recycle bins, dumpsters, etc. at a location accessible for pick-up by trash collectors. Contractor shall also be responsible for returning the bins/dumpsters to the house/business after the trash pick-up is complete. This work shall be in accordance with SUDAS Section 11030.02.

GRAPHIC SCALE
### TABULATION OF PCC PARKING LOT

<table>
<thead>
<tr>
<th>Location</th>
<th>Street Ident</th>
<th>Alignment</th>
<th>Side to Side</th>
<th>Size</th>
<th>Thickness (in)</th>
<th>Area (SF)</th>
<th>Div.</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Library Parking</td>
<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>0-31.4 to 1+32.8</td>
<td>Both</td>
<td>6 1263</td>
<td>1</td>
<td>Main parking lot, 6&quot; curb height.</td>
<td></td>
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<tr>
<td>Library Parking</td>
<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>0-31.4 to 1+39.4</td>
<td>Lt</td>
<td>6 44</td>
<td>1</td>
<td>4.5&quot; wide curb &amp; gutter adjacent to alley.</td>
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<tr>
<td>Library Parking</td>
<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>1-32.9 to 1+49.3</td>
<td>Lt</td>
<td>6 5</td>
<td>1</td>
<td>2&quot; wide curb &amp; gutter.</td>
<td></td>
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<tr>
<td>Library Parking</td>
<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>2-20.8 to 2+48.6</td>
<td>Lt</td>
<td>7 41</td>
<td>1</td>
<td>Parking lot around trash enclosures.</td>
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Total: 1312

### REMOVAL OF PAVEMENT TABULATION

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<th>Street Ident</th>
<th>Alignment</th>
<th>Station to Station</th>
<th>Size</th>
<th>Area (SY)</th>
<th>Div.</th>
<th>Remarks</th>
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<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>1+31.3 to 1+48.3</td>
<td>Both</td>
<td>28 1</td>
<td>1</td>
<td>Curb &amp; gutter along south &amp; west side of parking lot.</td>
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<tr>
<td>Library Parking</td>
<td>Library Park</td>
<td>Parking Lot Design Line</td>
<td>2+29.8 to 2+46.6</td>
<td>Left</td>
<td>41 1</td>
<td>1</td>
<td>Parking lot around trash enclosure.</td>
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<td>5th Ave.</td>
<td>5th Ave.  Design Line</td>
<td>23+2.5 to 23+7.6</td>
<td>Left</td>
<td>1</td>
<td>1</td>
<td>Curb &amp; gutter at abandoned line approach.</td>
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Total: 70

### REMOVAL OF DRIVEWAY TABULATION

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<th>Station to Station</th>
<th>Size</th>
<th>Area (Sq Yds)</th>
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<th>Remarks</th>
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<td>12 1</td>
<td>1</td>
<td>Abandoned drive approach.</td>
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<td>5th Ave.</td>
<td>5th Ave.  Design Line</td>
<td>23+61.0 to 23+89.9</td>
<td>Lt</td>
<td>14 1</td>
<td>2</td>
<td>South library drive.</td>
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<td>5th Ave.</td>
<td>5th Ave.  Design Line</td>
<td>24+11.4 to 24+53.5</td>
<td>Lt</td>
<td>37 1</td>
<td>2</td>
<td>North library drive.</td>
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Total: 63

### SIDEWALK TABULATION

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<th>Side</th>
<th>Length (FT)</th>
<th>Width (FT)</th>
<th>4&quot; PCC Area (Sq Yds)</th>
<th>6&quot; PCC Area (Sq Yds)</th>
<th>Detectable Warning Area (SF)</th>
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<td>9 33</td>
<td>10 16</td>
<td>Walk adjacent to trash enclosure. Ramp by alley is 6&quot;</td>
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<td>5th Ave.</td>
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<td>10 16</td>
<td>Entrance walk to #3414</td>
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DIV 1 TOTALS: 104 16 32
DIV 2 TOTALS: 168 16 32
TOTAL BOTH DIV: 120 11 32

### DRIVEWAY TABULATION

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<th>Location</th>
<th>Street Ident</th>
<th>Alignment</th>
<th>Station to Station</th>
<th>Side</th>
<th>Depth Curb (LF)</th>
<th>PR</th>
<th>Area (Sq Yds)</th>
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<th>Remarks</th>
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<td>10 32</td>
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<tr>
<td>5th Ave.</td>
<td>5th Ave.  Design Line</td>
<td>2+75</td>
<td>Lt</td>
<td>9 33</td>
<td>10 32</td>
<td>North library drive.</td>
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Total: 51

### GRAPHIC SCALE

- **Location:** Northside Library Parking Lot Expansion
- **Date:** 03-03-2022
- **Sheet Title:** Southside Library Parking Lot Expansion
- **Graphic Scale:** 1" = 20 ft
- **Drawn By:** (515) 283-4931
- **City of Des Moines, Iowa
  Department of Engineering
  I.D.**
- **NOTES:** Includes removal of curb.
NOTE: EXISTING CONTOURS SHOWN

1. A TYPE I ZONING EXCEPTION, ZBOA-2021-000061, WAS APPROVED BY THE NEIGHBORHOOD SERVICES DIRECTOR.
2. PROJECT USE: LIBRARY
3. BUILDING TYPE: CIVIC BUILDING
4. 12" OR LARGER TREE REMOVAL REQUIRED: NONE
5. ALL ROOFTOP MECHANICAL EQUIPMENT MUST BE SCREENED ON ALL SIDES WITH ARCHITECTURAL SCREENING EQUAL TO THE HEIGHT OF THE EQUIPMENT.
6. MECHANICAL EQUIPMENT SHALL NOT BE LOCATED IN THE FRONT YARD OR STREET SIDE YARD AND SHALL BE SCREENED FROM VIEW FROM ANY PUBLIC WAY WITH LANDSCAPING, FENCING, OR WALLS CONSISTENT WITH THE BUILDING DESIGN, COLORS, AND MATERIALS.
NOTE: EXISTING CONTOURS SHOWN

ENTRANCE TO REMAIN CLOSED

ALLEY

PROPOSED STORM SEWER

LOT LINE

EXISTING PCC

TO REMAIN

EXISTING PCC

TO REMAIN

EXISTING DRIVE APPROACH

TO REMAIN

5TH AVE.

NOTE: EXISTING CONTOURS SHOWN

GRAPHIC SCALE
A. COORDINATE LOCATION/INSTALLATION OF ELECTRICAL WORK WITH OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS OCCURRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: EXISTING BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, ETC. REFER TO GENERAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT OR SYSTEMS WILL BE AT THE CONTRACTORS EXPENSE.

B. NOTE THAT THE ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS CONTRACT DOCUMENTS. THE COMPLETE SET OF CONSTRUCTION DOCUMENTS SHALL BE USED TO DEFINE THE ELECTRICAL SCOPE OF WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, USING THE CIVIL PLANS FOR DIMENSIONS AND DETAILS, AND EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS.

INSTALLATION NOTES - ELECTRICAL

A. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO BID.
B. INCREASE CONDUCTOR SIZES ON 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
C. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.

D. LIGHT POLES AND CIRCUIT PATHWAYS ARE SHOWN IN PREFERRED LOCATION. E.C. RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
E. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING METHOD.
F. PROVIDE UPDATED TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION.
G. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS CREATED BY THEIR WORK. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS.

SITE NOTES - ELECTRICAL

A. UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO COMPLETING BID AND ORDERING OF EQUIPMENT.
B. CONTRACTOR SHALL REPAIR AFFECTED SURFACES AND RESTORE TO EXISTING CONDITIONS AT COMPLETION OF PROJECT.
C. WARNING - CALL 48 HOURS BEFORE YOU DIG: IOWA LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. IOWA ONE-CALL 1-800-292-8989.

CODE NOTES - ELECTRICAL

A. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES.
B. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
C. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
LIGHTING GENERAL NOTES

A. Coordinate location/installation of electrical work with other trades and existing conditions. No aspect of a system installation or its rough-in shall commence until proper and timely coordination with trades associated with the installation has transpired. Existing items to be coordinated shall include but not be limited to: building structure, sheet metal, piping systems, light fixtures, conduits, cable trays, etc. Refer to general and electrical drawings and specifications for this project.

B. Proposed conduit routing via trenching and backfilling. Direction boring is accepted if route is confirmed with owner prior to rough-in.

C. Owner will be responsible for new seeding for disturbed green space locations. Contractor responsible for returning grade to level condition.

KEYNOTES

1. Remove light pole and pole base entirely. Remove circuit conductors and abandon conduit in place. Headend circuit breaker shall remain for new site lighting circuit.

2. Proposed route for new conductors and conduit to existing panel P1. Use minimum #10 conductors with #10 EGC in 1" SCH. 80 PVC conduit. Connect to existing 20A-1P breaker and existing astronomical timeclock. Coordinate clock adjustments with owner.

3. Proposed building penetration point of new lighting circuit. Install junction box on exterior and interior wall for circuit pass-thru. Route conduit interior high as possible within exposed structural members and continue to existing panel P1. Coordinate final location with existing building conditions and owner prior to rough-in.

4. Proposed location of polymer concrete hand hole with bolted gasketed lid Quazite or equal. Tier 22 rated with gravel rock bottom. Minimum 18" depth. Provide with engraved label "Electrical". Final size shall be determined by E.C.
NOTES:
1. FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

LIGHTING SCHEDULES

ELECTRICAL SCHEDULES

NOTES:
- GROUND PER N.E.C./SPECIFICATIONS
- ALL CONCRETE 4000 P.S.I.

1. FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: Jonathon LaCroix

KCL Engineering
300 4th Street
West Des Moines, IA 50265
515-724-7938

CITY OF DES MOINES
NORTHSIDE LIBRARY PARKING LOT EXPANSION
DES MOINES, IOWA

Project No.: 04-2021-006
File No.: 041-247
Date: 03/09/2022

F.03
2. INSTALL SIDEWALK CLOSURE SIGNS AND BARRICADES AS PER FIGURE 8030.117 AND 8030.119 OF THE STD. SPECIFICATIONS.

1. INSTALL SIGNS AND BARRICADES IN ADVANCE OF STREET CLOSURE AS PER FIGURE 8030.116 OF THE STD. SPECIFICATIONS.

NOTES:
1. INSTALL SIGNS AND BARRICADES AS IN ADVANCE OF STREET CLOSURE AS PER FIGURE 8030.116 OF THE STD. SPECIFICATIONS.
2. INSTALL SIDEWALK CLOSURE SIGNS AND BARRICADES AS PER FIGURE 8030.117 AND 8030.119 OF THE STD. SPECIFICATIONS.

GENERAL TRAFFIC CONTROL NOTES
1. No measurement will be made for temporary traffic control. The contractor will be paid the contract lump sum price for temporary traffic control installation complete.
2. The Contractor shall furnish the City Engineer with names and telephone numbers of individuals responsible for the maintenance of traffic control signing. These persons shall be available for corrective action 24 hours a day, 7 days a week.
3. All traffic control shall be coordinated with the Engineer and the Traffic and Transportation Division. Notify the Engineer and Traffic Division at least 2 weeks prior to closing any road.
4. The Contractor shall furnish, install, maintain, move, and remove all traffic control devices on the project. All signs shall be reflectorized and conform as to design, color, size and legend to the “Manual on Uniform Traffic Control Devices.” Signs may be installed on portable mounting devices, if desired. Where possible, all post mounted signs shall be placed a minimum of two feet clear of the curb.
5. Before each day’s work begins, all signs and barricades shall be in place. Traffic assisted requirements are shown on the plans. Proposed sign spacing may be modified as approved by the Engineer, to meet existing field restrictions or to prevent obstruction of the motorists’ view of permanent signing. The contractor will be responsible for additional signing and barricades as necessary.
6. Permanent signing that conveys a message contrary to the message of the temporary signing and not applicable to the working conditions shall be covered by the Contractor when directed by the Engineer. If the Engineer determines a sign must be removed for any phase of construction, it will be removed, relocated and reset, upon notification from the contractor, by personnel of the City of Des Moines. Provide a minimum of a 5-day notice to the City for any required work.
7. The Contractor shall hand deliver a notice of street closing to a contacting property when a street is closed to traffic access to a property is restricted or closed. The text for the notice will be provided by the City. The contractor will be responsible for printing the notices. The notice shall be delivered seven days in advance of each closure. If the schedule changes after the notices have been handed out, the contractor shall deliver an updated notice with the new dates for construction.
8. The contractor shall propose starting times for the street closures to minimize the disruption to the public. The engineer and traffic department shall approve the start times. The contractor shall provide supplemental lighting as needed to sufficiently illuminate the work area if needed.
9. During operations that must encroach on the open lane, a certified flagger shall be posted adjacent to the open traffic lane and upstream of the operation. Encroachment shall be held to a minimum and shall be for as short a time as possible. The flagger will alert motorists when equipment encroaches on the travel way. Also provide certified flaggers at the ends of the project as needed to direct traffic and secure the work area.
10. Signs and barricades for pedestrian closures shall be installed as required by the standard specifications. Also, “Sidewalk Closed Ahead” signs shall be placed 1 block in advance of the closure.
**JOINTING PLAN**

**NOTE:** DIMENSIONS ARE TO BACK OF CURB

1" = 20'

**DESIGN LINE**

MATCH EXISTING JOINTS

CONSTRUCT C JOINTS TO MATCH EXISTING JOINTS IN ALLEY

IN ALLEY

5TH AVE.

NOTE: DIMENSIONS ARE TO BACK OF CURB
**TRASH ENCLOSURE DETAILS**

**PLAN**

- Concretes Trench ftG. Below
- Solid Concrete Masonry Units, 4"
- STD. Concrete Masonry Units, 3"x3"x18" (5)
- GATE; SEE ELEVATIONS

**ELEVATION TRASH ENCLOSURE SIDE**

- Solid Concrete Masonry Unit, 4"
- STD. Concrete Masonry Units, 3"x3"x18"
- Grade
- Concrete Trench FtG. (5)

**ELEVATION TRASH ENCLOSURE GATE**

- Solid Concrete Masonry Units, 4"
- STD. Concrete Masonry Units, 3"x3"x18"
- Grade
- Concrete Trench FtG. (5)

**ELEVATION TRASH ENCLOSURE REAR**

- Solid Concrete Masonry Units, 4"
- STD. Concrete Masonry Units, 3"x3"x18"
- Grade
- Concrete Trench FtG. (5)

**SECTION TRASH ENCLOSURE**

- 1"-4" x 3"-6" Conc. Trench FtG. w/ (5)¥
- TOP AND BOT. ANG
- ¥ VERT. 2'0" O.C. (5)

---

**FILE NO.**

- L.03

**SHEET**

- L.03

**DATE**

- 03-03-2022

**SURVEY BY**

- (515) 283-4931

**DRAWN BY**

- CITY OF DES MOINES, IOWA

**DESIGNED BY**

- DAVID D. GORDON

**CHECKED BY**

- TERRY B. KERKHOFF

**PROJECT BY**

- GIDEON H. GOLDBERG

**NOTES**

- NORTHSIDE LIBRARY PARKING LOT EXPANSION

---

**GRAPHIC SCALE**

- SCALE: 1/4" = 1'-0"
Storm Sewer Profile

EXISTING GROUND

PROPOSED GROUND

112 LF OF 36" PERFORATED STM SEWER @ 0.23%

INSTALL 1/4" STEEL PLATE TO INTAKE WALL TO BLOCK FLOW IN 36" PIPE, LEAVE 6" GAP AT BOTTOM

6" GAS PH #6 - 111.07'

STORM SEWER @ 1.01% 26 LF OF 15" STM @ 0.11%

110.66 FL: 109.66

INT 1

INT 2

INT 3

GRAPHIC SCALE

DEPARTMENT OF ENGINEERING
CITY OF DES MOINES, IOWA
(515) 283-4931

NOTE: All dimensions are approximate.
INTERSECTION DETAILS

THE EXISTING RETAINING WALL CONSTRAINTS CAUSED BY ARE NON-COMPLIANT DUE TO NOTE: WALK RAMP SLOPES (FROM CURB TOWARDS CL) TO DRAIN SOUTHWEST SLOPE RETURN OVID AVE.

SLOPE RETURN TO DRAIN SOUTHWEST (FROM CURB TOWARDS CL)

WALL TO REMAIN

STA 41+79.32
104.85 FG

STA 41+94.0
105.06 FG

STA 41+94.0
104.85 FG

STA 41+79.32
104.85 FG

WALK

NOTE: WALK RAMP SLOPES ARE NON-COMPLIANT DUE TO CONSTRAINTS CAUSED BY THE EXISTING RETAINING WALL

WALK

104.83 FG

104.96 FG

105.06 FG

104.86 FG

50.6

105.8

104.61 FG

ELEV 99.67'
PH#2 (8'' WATER)
ELEV 101.86'
PH#3 (6'' GAS)
ELEV 102.48'
PH#1 (6'' GAS)

SIDEWALK

INSTALL TREE PROTECTION FENCE

P-6
INT 4
MH 2
INT 5
P-7
INT 6
P-8
INT 3

P-6

104.61 FG

SIDEWALK

SEARCH FOR SUMP PUMP PIPE OUTLET & CONNECT TO INT 6 IF FOUND

PH#1 (8'' WATER)
ELEV 101.86'
PH#3 (6'' GAS)

SIDEWALK

INSTALL TREE PROTECTION FENCE

P-6
INT 4
MH 2
INT 5
P-7
INT 6
P-8
INT 3

P-6

104.61 FG

SIDEWALK

SEARCH FOR SUMP PUMP PIPE OUTLET & CONNECT TO INT 6 IF FOUND

PH#1 (8'' WATER)
ELEV 101.86'
PH#3 (6'' GAS)

SIDEWALK

INSTALL TREE PROTECTION FENCE

P-6
INT 4
MH 2
INT 5
P-7
INT 6
P-8
INT 3

P-6

104.61 FG

SIDEWALK

SEARCH FOR SUMP PUMP PIPE OUTLET & CONNECT TO INT 6 IF FOUND

PH#1 (8'' WATER)
ELEV 101.86'
PH#3 (6'' GAS)
The document contains a Storm Sewer Profile plan for the NORTHSIDE LIBRARY PARKING LOT EXPANSION. It includes details such as existing ground levels, storm sewer construction limits, and design line for OVID AVE. The profile shows full depth patch limits and existing RCP STM. The storm sewer system is designed to be installed with existing tree protection fences and involves the installation of new underground utilities along the 4TH ST. and OVID AVE.
NOTE 1 CONTRACTOR MAY BORE PIPE UNDER DRIVE APPROACH IN LIEU OF REMOVING & REPLACING DRIVE. PAYMENT WILL BE PAID THE CONTRACT AMOUNT FOR REMOVAL & REPLACEMENT OF DRIVE FOR EITHER METHOD USED.

NOTE 2 PLACE TOPSOIL ALONG BUILDING FACE TO 1 INCH BELOW WEEPHOLES AND SLOPE TO DRAIN AWAY FROM BUILDING. FEATHER OUT TO 0 INCH DEPTH 3' FROM BUILDING. HYDROSEED DISTURBED AREA.

PLACE SIDEWALK FACE TO 1 INCH BELOW WEEPHOLES AND SLOPE TO DRAIN.

CONSTRUCT 4' X 5' PCC FLUME WITH 4' CURB ALL AROUND. PLACE TOP OF CURB FLUSH WITH ADJACENT GROUND. CENTER FLUME AND INTAKES ON DOWNSPOUTS.

INSTALL TREE PROTECTION FENCE.

REPLACE WALK & SIDEWALK.

INSTALL 12" FOOTING DRAIN COLLECTOR.

CONTRACTOR MAY BORE PIPE UNDER DRIVE APPROACH IN LIEU OF REMOVING & REPLACING DRIVE. PAYMENT WILL BE PAID THE CONTRACT AMOUNT FOR REMOVAL & REPLACEMENT OF DRIVE FOR EITHER METHOD USED.

MAINTAIN ACCESS TO ONE DRIVE AT ALL TIMES.

CONTRACTOR MAY BORE PIPE UNDER DRIVE APPROACH IN LIEU OF REMOVING & REPLACING DRIVE.
### SIDEWALK COMPLIANCE

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<th>Distance* &amp; Elevation</th>
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**GRAPHIC SCALE**

- **DEPARTMENT OF ENGINEERING**
  - CITY OF DES MOINES, IOWA
  - PHONE: (515) 283-4931

---

**FOR INFORMATION ONLY:**

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<thead>
<tr>
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**DRAWN:**

- DATE: 03-03-2022
- SHEET TITLE: NORTHSIDE LIBRARY PARKING LOT EXPANSION

---

**DEPARTMENT OF ENGINEERING**

- CITY OF DES MOINES, IOWA
- PHONE: (515) 283-4931