CITY OF DES MOINES, IA
CONSTRUCTION PLANS FOR
TOWER PARK FUTSAL COURT
4900 HICKMAN ROAD

ACTIVITY ID 11-2022-006

GOVERNING SPECIFICATIONS
THE 2022 EDITION OF THE "IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

RESOURCES
City of Des Moines Engineering
Brett Lewis: 515-208-4024
City of Des Moines Parks and Recreation
Aaron Graves: 515-248-6355
City of Des Moines Traffic
Corey Bogenreif: 515-208-4014
Des Moines Water Works
Carla Schumacher: 515-323-6227
Mid-American Energy
Matt Novy: 515-252-6730
CenturyLink
Ngoc Le: 425-502-685

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

PLAN FILE NO.: 643-057
CITY OF DES MOINES ACTIVITY I.D.: 11-2022-006

BOLTON & MENK
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CITY OF DES MOINES
TOWER PARK FUTSAL COURT
TITLE SHEET

PAGES OR SHEETS COVERED BY THIS SEAL:
ALL SHEETS
**ELECTRICAL, CONNECTIONS, AND CIRCUITY**

- **EROSION CONTROL MULCHING, HYDRO MULCHING**
  - FILTER SOCK, INSTALL, MAINTAIN, REMOVE

**SHRUBS**

- **MODIFIED SUBBASE, 6**
  - INSTALL, MAINTAIN, REMOVE

**MULCHING**

- **CONSTRUCTION SAFETY FENCE**
  - ORANGE CONSTRUCTION SAFETY FENCE

**WATERING**

- **TOPSOIL, ON-SITE**
  - SEEDING AREAS ASSUMED FOR TWO APPLICATIONS OVER THE AREAS DISTURBED.

**WATER INTAKE, CATCH BASIN, 6 INCH**

- **INTAKE, CATCH BASIN, 6 INCH**
  - INSTALL THE VAPOR BARRIER. THE VAPOR BARRIER SHALL BE 15 MIL POLYOLEFIN INSTALL

**SEATING AREAS**

- **SIDEWALK, REINFORCED PCC, 5**
  - CONCRETE WASHOUT FACILITIES DURING CONSTRUCTION AND DISPOSING OF WASTE IN ACCORDANCE TO LOCAL REGULATIONS. WASHING OUT ON GRADE IS STRICTLY PROHIBITED.

**VAPOR BARRIER**

- **VAPOR BARRIER, 5 MIL**
  - THIS ITEM INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO PLACE 5" PCC AS INDICATED IN THE DOCUMENTS FOR THE SIDEWALKS. THIS ITEM ALSO INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO INSTALL THE VAPOR BARRIER. THE VAPOR BARRIER SHALL BE 15 MIL POLYOLEFIN INSTALL

**SURFACE PREPARATION**

- **SUBGRADE PREPARATION**
  - THIS ITEM INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO INSTALL THE VAPOR BARRIER. THE VAPOR BARRIER SHALL BE 15 MIL POLYOLEFIN INSTALL

**SIDEWALKS**

- **SIDEWALK, REINFORCED PCC, 5**
  - CONCRETE WASHOUT FACILITIES DURING CONSTRUCTION AND DISPOSING OF WASTE IN ACCORDANCE TO LOCAL REGULATIONS. WASHING OUT ON GRADE IS STRICTLY PROHIBITED.

**SODAL, SEED**

- **SODAL, SEED**
  - INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO INSTALL THE VAPOR BARRIER. THE VAPOR BARRIER SHALL BE 15 MIL POLYOLEFIN INSTALL

**SUBGRADE**

- **SUBGRADE**
  - THIS ITEM INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO INSTALL THE VAPOR BARRIER. THE VAPOR BARRIER SHALL BE 15 MIL POLYOLEFIN INSTALL

**SHEET METAL, REBAR, TIES, AND CHAIRS**

- **SHEET METAL, REBAR, TIES, AND CHAIRS**
  - CONSIDERED INCIDENTAL TO THIS ITEM. SEED AND FERTILIZER SHALL BE APPLIED PRIOR TO SEEDING. WATERING UNTIL SEED ESTABLISHMENT IS ACCEPTED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. WHERE SPECIFIED, SEASONING SHALL BE PERFORMED IN ACCORDANCE TO LOCAL REGULATIONS. WASHING OUT ON GRADE IS STRICTLY PROHIBITED.

**SITE DEVELOPMENT**

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GENERAL NOTES

INJECTION: THE CONTRACTOR SHALL CONTACT THE PRINCIPAL CONSTRUCTION INSPECTOR FOR THE CITY OF DES MOINES ENGINEERING DEPARTMENT 283-4137 OR THE INSPECTOR BEFORE BEGINNING CONSTRUCTION.

CUSTOMER OF DES MOINES PARKS AND RECREATION DEPARTMENT REVIEW AND ACCEPTANCE: THE CONTRACTOR’S WORK SHALL MEET THE CITY OF DES MOINES PARKS AND RECREATION DEPARTMENT STANDARDS. BEFORE CONSTRUCTION IS COMPLETED, A FINAL SURFACE SURVEY AND INSPECTION BY CITY PARKS AND RECREATION DEPARTMENT STAFF IS REQUIRED, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- THE FINISHED ELEVATION SHALL BE TO THE DESIGNATION SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE PRINCIPAL CONSTRUCTION INSPECTOR BEFORE EMBARKING ON THE CONSTRUCTION PROCESS.
- THE CONTRACTOR SHALL COMPLETE ALL WORK TO MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). ANY WORK THAT DOES NOT MEET THESE REQUIREMENTS WILL BE CONSIDERED DEFECTIVE AND BE REMOVED AND REPLACED AT THE CONTRACTOR’S EXPENSE. THE CITY OR CONTRACTOR SPECIFIED PORTION OF THE WORK SHALL MEET THE CITY SPECIFIC REQUIREMENTS.
- THE CONSTRUCTION SURVEY SHALL PROVIDE SURVEY STAKING FOR THE GENERAL LAYOUT. PRIOR TO PLACEMENT OF THE SURFACE MATERIAL, THE CONTRACTOR WILL BE MEASURED AND INTERPRET THE SURFACE MATERIAL.
- THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES, OTHER THAN THOSE SHOWN ON THE PLANS, MAY BE PRESENT.
- THE CONTRACTOR TO ENSURE CONSTRUCTION ITEMS MEET CITY REQUIREMENTS.
- THE CONTRACTOR’S WORK SHALL MEET CITY OF DES MOINES PARKS AND RECREATION STANDARDS BEFORE BEING ACCEPTED.
- CONSTRUCTION LIMITS: THE CONTRACTOR SHALL NOT DISTURB DEBASED GRASS AREAS AND DEBUR DRAWS OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL LAYOUT. A SURVEY SHALL BE MADE BEFORE BEGINNING CONSTRUCTION.
- USE OF SELF-LEVELING GROUNTS OR OTHER METHOD TO REPAIR POOR WORKMANSHIP; SURFACE DEPRESSING, POOR FINISHING, ETC. SHALL NOT BE PERMITTED.
- THE CONTRACTOR TO ENSURE CONSTRUCTION ITEMS MEET CITY REQUIREMENTS.
- UTILITIES: THE CONTRACTOR SHALL COORDINATE WORK WITH THE CITY UTILITIES WITH RESPECT TO PROTECTING, RETAINING AND RECONSTRUCTING UTILITIES EXISTING.
- MATERIALS USED IN THE CONSTRUCTION PROCESS SHALL BE TRUE AND CONSISTENT.
- CLEANUP: THE CONTRACTOR SHALL COMPLY WITH CITY CLEANUP RULES AND REGULATIONS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES.
- GENERAL NOTES: ALL REMOVALS AND DISPOSALS OF MATERIALS, INCLUDING, BUT NOT LIMITED TO, EMBANKMENTS, NOTE UTILITIES, CONSOLIDATED ENCLOSES, AND UTILITIES SHALL BE TRUE AND CONSISTENT.

GENERAL NOTES

DISPOSAL OF BITUMINOUS MATERIAL. UNLESS OTHERWISE DIRECTED OR AUTHORIZED, ALL ASPHALTIC CONCRETE AND OTHER BITUMINOUS MATERIALS WHICH ARE INSUFFICIENTLY DESCRIBED IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR TO ENSURE CONSTRUCTION ITEMS MEET CITY SPECIFIC REQUIREMENTS.

1. REMOVE THE MATERIAL FROM THE PROJECT AND STORE THESE FOR THE CONTRACTOR’S FUTURE USE.

2. REMOVE OF A LICENSED STRIPER. NO WORK ZONE, TRAFFIC PROTECTION AREA, CONTRACTOR SHALL NOT ENTER THE “NO WORK ZONE” WITH CONSTRUCTION VEHICLES. THE CONTRACTOR SHALL USE CAREFUL MANNERS AND BE DESIRABLE TO PROVIDE TEMPORARY TRAFFIC CONTROL DEVICES, WHICH ARE PLOTTED TO THE EDGE LINE OF THE TRAFFIC ZONE.

RECONCERTING STEEL: ALL RECONCERNING STEEL DUELS AND THE BARS SHALL BE EPONY COATED UNLESS OTHERWISE NOTED.

TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL NOTES

1. THE WORK AREA IS A CITY PARK. THE CONTRACTOR MUST TAKE EXTREME CARE TO AVOID CONFLICTS WITH PARK USERS.

2. AS A RESIDENTIAL AREA, WORK MUST CONFORM TO CITY REGULATIONS REGARDING WORK START AND END TIMES TO REDUCE CONSTRUCTION NOISE IMPACTS ON NEIGHBORS.

3. NO FIELD PREPARATION WILL BE MADE FOR THE TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL ITEMS. THE CONTRACTOR SHALL PROVIDE THAT TEMPORARY TRAFFIC LUMBS, SIGNS, AND THEIR SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ADJACENT UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY TRAFFIC CONTROL DEVICES. SIGNS MAY BE INSTALLED ON PORTABLE MOUNTING DEVICES, AS DESIGNED.

4. NO PAYMENT WILL BE FOR CONTRACT ITEMS THAT ARE DAMAGED PRIOR TO PROJECT ACCEPTANCE.
**EXISTING CONDITIONS & REMOVALS**

**REMOVAL LEGEND**

- **TOP SOIL STRIP & SALVAGE**
- **GRADE & RESEED ACCESS ROUTE**

**NOTES:**

1. **THE AREA TO BE DISTURBED FOR CONSTRUCTION SHALL HAVE 1' OF TOPSOIL STRIPPED AND STOCKPILED FOR RESPREAD.**
2. **CONTRACTOR SHALL MAINTAIN A PERIMETER SAFETY FENCE THROUGH THE DURATION OF THE PROJECT AND REMOVED ONLY AFTER FINAL ACCEPTANCE OF ESTABLISHED SEEDING BY OWNER AND/OR ENGINEER.**
3. **ACCESS FROM 50TH ST TO BE COORDINATED WITH CITY PARKS DEPARTMENT. GRADE & RESEED DISTURBED AREA.**
4. **CONTRACTOR SHALL PROVIDE ADVANCE WARNING DEVICES ON 50TH ST PER MUTCD 2009.**
5. **SURFACE CONTURS SHOWN ON THIS SHEET ARE OF EXISTING CONDITIONS.**

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**ACCESS PATHS**

- **COORDINATE LOCATION WITH PARKS AND REC TO ENSURE ALL PLAYING FIELD AREAS ARE AVOIDED.**

**REMOVED & REINSTALLED SIDEWALK DAMAGED FROM CONSTRUCTION TRAFFIC.**

**SIDEWALK CLOSED**

**TREE SHAL OUTSIDE OF CONSTRUCTION FENCE AND PROTECTED FROM DAMAGE.**

**FENCE ENTRANCE SHALL BE SECURED BY END OF DAY.**

**NOTE:**

- **THE AREA TO BE DISTURBED FOR CONSTRUCTION SHALL HAVE 1' OF TOPSOIL STRIPPED AND STOCKPILED FOR RESPREAD.**
- **CONTRACTOR SHALL MAINTAIN A PERIMETER SAFETY FENCE THROUGH THE DURATION OF THE PROJECT AND REMOVED ONLY AFTER FINAL ACCEPTANCE OF ESTABLISHED SEEDING BY OWNER AND/OR ENGINEER.**
- **ACCESS FROM 50TH ST TO BE COORDINATED WITH CITY PARKS DEPARTMENT. GRADE & RESEED DISTURBED AREA.**
- **CONTRACTOR SHALL PROVIDE ADVANCE WARNING DEVICES ON 50TH ST PER MUTCD 2009.**
- **SURFACE CONTURS SHOWN ON THIS SHEET ARE OF EXISTING CONDITIONS.**

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**TOPSOIL STOCK PILE LOCATION**

**PROTECT ALL TREES FROM DAMAGE THROUGH DURATION OF PROJECT. REPLACE DAMAGED TREES AT CONTRACTOR'S EXPENSE.**

**REMOVE PAVEMENT TO NEAREST JOINT FULL DEPTH SAW CUT REQUIRED.**

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**SHEET BOLTON & MENK, INC.**

**5/17/2022 2:28:09 PM**

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**CLIENT PROJ. NO.**

**430 E GRAND AVENUE, SUITE 101**

**DES MOINES, IOWA  50309**

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**Email: DesMoines@bolton-menk.com**

**www.bolton-menk.com**

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**EXISTING CONDITIONS & REMOVALS**

**PLAN FILE NO.: 040-562**

**CITY OF DES MOINES ACTIVITY I.D.: 11-2022-006**

**SCALE**

**0 20 40 FEET**

**PROTECT ALL TREES FROM DAMAGE THROUGH DURATION OF PROJECT. REPLACE DAMAGED TREES AT CONTRACTOR'S EXPENSE.**

**SURFACE CONTURS SHOWN ON THIS SHEET ARE OF EXISTING CONDITIONS.**

**TREE SHAL OUTSIDE OF CONSTRUCTION FENCE AND PROTECTED FROM DAMAGE.**

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**NOTE:**

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- **ACCESS FROM 50TH ST TO BE COORDINATED WITH CITY PARKS DEPARTMENT. GRADE & RESEED DISTURBED AREA.**
- **CONTRACTOR SHALL PROVIDE ADVANCE WARNING DEVICES ON 50TH ST PER MUTCD 2009.**
- **SURFACE CONTURS SHOWN ON THIS SHEET ARE OF EXISTING CONDITIONS.**
INSTALL 4" CATCH BAYOU R301
8' ROUND GRATE, GREEN
R = 100.75
I = 198.20

INSTALL RODENT GUARD
I = 198.32

INSTALL RODENT GUARD
I = 199.00

INSTALL SPEE-D CATCH BASIN #101
8" ROUND GRATE, GREEN
R = 199.75
I = 199.20

INSTALL 4" NON-PERFORATED TILE,
20 LF @ 1.0%

HORZ.
FEET
SCALE
0
10
20
643-
064

STORM SEWER PLAN
CONTRACTOR TO INSTALL BREAKER FOR FUTSAL COURT LIGHTING.

COORDINATE WITH DES MOINES PARK AND RECREATION DEPARTMENT FOR PRIVATE UTILITY LOCATES. EXISTING PRIVATE UTILITIES ARE NOT SHOWN ON PLANS.

INSTALL HANDHOLE. HANDHOLE SPACING AS REQUIRED PER STATE AND LOCAL ELECTRICAL CODE.

COORDINATE WITH DES MOINES PARK AND RECREATION DEPARTMENT FOR PRIVATE UTILITY LOCATES. EXISTING PRIVATE UTILITIES ARE NOT SHOWN ON PLANS.

INSTALL 475 LF OF 3/4 INCH CONDUIT.

INSTALL HANDHOLE.

HANDHOLE SPACING AS REQUIRED PER STATE AND LOCAL ELECTRICAL CODE.

CONNECT TO EXISTING BREAKER PANEL.

CO-ORDINATES WITH DES MOINES PARK AND RECREATION DEPARTMENT FOR PRIVATE UTILITY LOCATES. EXISTING PRIVATE UTILITIES ARE NOT SHOWN ON PLANS.

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CONDUIT INSTALLATION SHALL BE OUTSIDE OF TREE DIP LINES.

ILLA-CONDUIT UNDER EXISTING SIDEWALK, CENTERED ON PANEL, INCIDENTAL TO CONDUIT INSTALLATION.

STUB 3/4 INCH CONDUIT 6" ABOVE GRADE. CAP AND PROTECT DURING EAVEMENT INSTALLATION.

NOTE:

1. CONTRACTOR TO CALL IN LOCATES WITH IOWA ONE CALL, THE CITY OF DES MOINES, AND DES MOINES PARKS DEPARTMENT PRIOR TO ANY UNDERGROUND WORK.
2. UTILITIES ARE NOT INDICATED ON PLANS AND ARE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE AND VERIFY ANY AND ALL CROSSINGS.
3. DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
4. SITE RESTORATION SHALL BE INCIDENTAL TO ELECTRICAL CONNECTIONS AND CIRCUITRY LUMP SUM PACKAGE.
5. CONTRACTOR TO LAYOUT CONDUIT INSTALLATION PATH AND HAVE APPROVED BY DES MOINES PARKS AND RECREATION PRIOR TO INSTALLATION.

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EXISTING BREAK PANEL AND METER

DO NOT INSTALL ELECTRICAL WIRE UNDER FUTSAL COURT SLAB. COIL SUFFICIENT WIRE IN HANDHOLE FOR OTHERS TO MAKE CONNECTION.

SITE RESTORATION SHALL BE INCIDENTAL TO ELECTRICAL CONNECTIONS AND CIRCUITRY LUMP SUM PACKAGE.

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DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

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