

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.



1



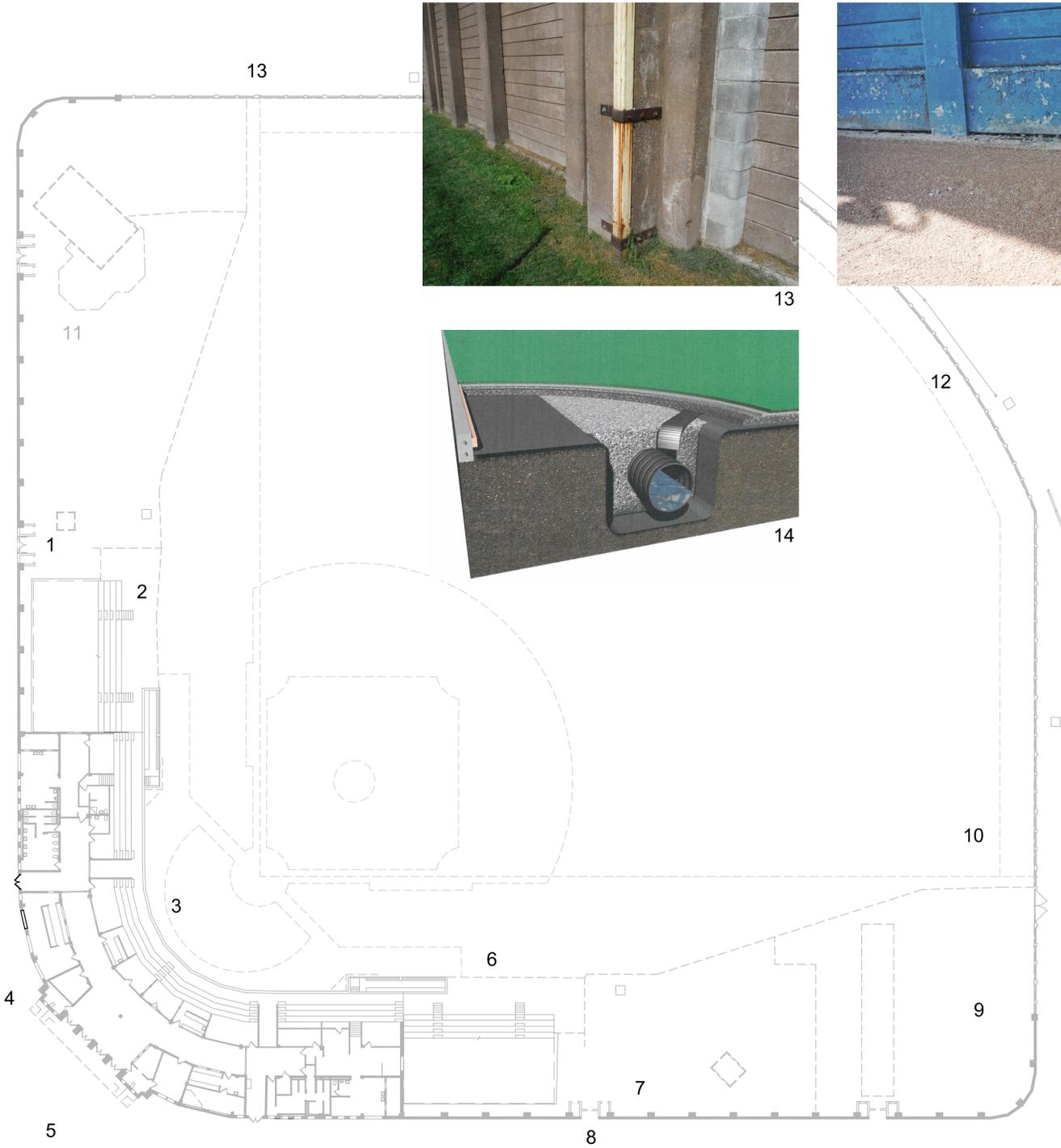
2



3



4



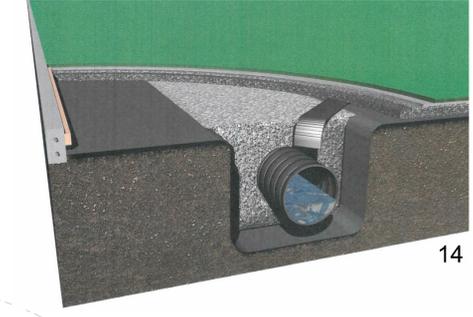
13



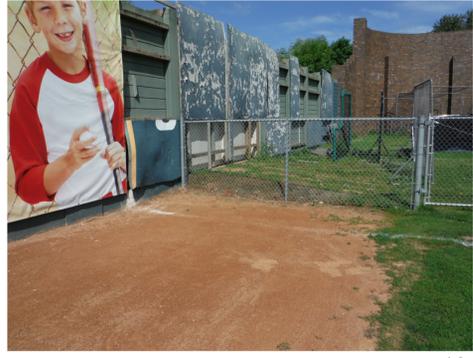
12



11



14



10



9



5



6



7



8



CITY OF DULUTH WADE STADIUM 101 N. 35TH AVE. W. DULUTH, MN 55807

WADE STADIUM IMPROVEMENTS

PHASE 1: FIELD & LIGHTING

Table with multiple empty rows for notes or revision history.

Table with columns: NO., DATE, ISSUE RECORD.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: [Signature] PRINTED NAME: KENNETH JOHNSON LIC. NO.: 11326 DATE: 7.28.2014

TKDA 11 East Superior Street, Suite 340 Duluth, MN 55802 218.724.8578 tkda.com

Table with columns: DESIGNED, DRAWN, CHECKED.

IMAGES

G2.0

15609.000

DATE PLOTTED: Jul 25, 2014 - 4:21pm DRAWING PATH: \\DUL-FSRV01\DuluthOffice\Projects\15609000 Duluth Wade Stadium\04 DRAW 00 CURRENT_ARCH\G2.0.dwg



CITY OF DULUTH WADE STADIUM

101 N. 35TH AVE W. DULUTH, MN 55807

WADE STADIUM IMPROVEMENTS

PHASE 1: FIELD & LIGHTING

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A BASEBALL FIELD RECONSTRUCTION, INCLUDING SUBDRAIN AND ARTIFICIAL TURF, AS WELL AS BITUMINOUS AND CONCRETE REPLACEMENT. THE TOTAL LAND AREA ANTICIPATED TO BE DISTURBED BY THE PROJECT (EXCLUSIVE OF BORROW AND DISPOSAL AREAS) IS 5.6 ACRES.

- 1. MnDOT (2014 Edition) Std. Spec. 1803.5, Erosion Control, shall apply. Along with the City of Duluth, Contractor will be co-permittee for the MPCA NPDES stormwater construction permit for this project... 2. The Contractor is responsible for EC Quality Control on this project... 3. Sediment and erosion control devices shall be functional before site is disturbed... 4. Total disturbed area is 5.6 acres... 5. Receiving water is Merritt Creek... 6. Disturbed slopes not actively worked shall be protected from soil erosion... 7. At minimum, the following controls will be implemented at the construction site... 8. All slopes and ditches shall be stabilized prior to opening new culverts... 9. If any stockpile is to remain in place for more than 3 days... 10. Water pumped or otherwise discharged from the site during construction dewatering shall be directed through effective filtering device(s)... 11. The contractor shall take all possible precautions to prevent appreciable soil tracking on roadways... 12. Stabilized construction entrance(s) shall be removed and area restored after grading is complete... 13. JAW MnDot 1803.5D, the contractor QC program shall ensure that a competent individual shall inspect erosion and sediment control devices weekly... 14. Where not otherwise specified, MnDot Sp Provision S-270, Rapid Stabilization Method 4 shall be used when quick stabilization is needed.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

TO PREVENT STORM WATER CONTAMINATION FROM OCCURRING, THE FOLLOWING BMPs WILL BE IMPLEMENTED:

- 1. All areas that are rough graded must be kept in a smooth condition to allow sheet flow of storm water wherever practical and always ready for surface application of degradable or non-degradable blankets, mulch, or other protective covers. 2. A stabilized construction entrance/exit will be constructed to reduce vehicle tracking of sediments off the project right of way. 3. All non-hazardous waste materials will be collected and stored in a securely lidded metal sumpster or other approved containment method at the end of each day. 4. A licensed sanitary waste management contractor will collect all sanitary waste from the portable units at a rate necessary to maintain design function. 5. All vehicles on site will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. 6. Fertilizers will be stored in a covered shed and partially used bags will be transferred to a sealable bin to reduce chance of spillage. 7. Petroleum products will be stored in tightly sealed containers, which are clearly labeled. 8. Spill kits will be included with all fueling sources and maintenance activities. 9. Any asphalt substances used on site will be applied in accordance with manufacturers recommendations. 10. All paint containers and curing compounds will be tightly sealed and stored when not required for use. 11. Materials and equipment necessary for spill clean up will be kept in an enclosed trailer or shed on site. 12. All spills will be contained and cleaned up immediately upon discovery. 13. Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site. 14. Form release oil used for concrete work must be applied over a pallet containing absorbent to collect excess liquid. 15. Discharges from basin dewatering operations that are turbid or sediment laden shall be discharged to temporary sediment basins constructed on the site to provide treatment prior to discharge to a water of the state.

CONSTRUCTION NOTES

CONSTRUCTION SHALL BE GOVERNED BY THE MNDOT STANDARD SPECIFICATIONS, CITY OF DULUTH, MINNESOTA STANDARD CONSTRUCTION SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL BMPs BEFORE AND DURING CONSTRUCTION.

THE CONTRACTOR SHALL KEEP THE INSPECTION AND MAINTENANCE LOGS IN ACCORDANCE WITH THIS SWPPP, ALL PERMITS, ALL INSPECTION AND MAINTENANCE RECORDS AND DESIGN CALCULATIONS. THE CONTRACTOR SHALL MAINTAIN A RESPONSIBLY SIZED STOCKPILE OF EROSION CONTROL DEVICES.

TMDL IMPLEMENTATION PLANS CONTAINING STORM WATER REQUIREMENTS

NO TMDL IMPLEMENTATION PLANS CURRENTLY EXIST FOR THE RECEIVING WATERS ON THIS PROJECT.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

Table with 2 columns: DESCRIPTION, TITLE. Rows include: SUMMARY OF PERVIOUS AND IMPERVIOUS, DIRECTION OF FLOW/DRAINAGE AREA, RECEIVING SURFACE WATERS, NO DISTURBANCE AREAS AND AREAS OF PHASED CONSTRUCTION, DRAINAGE STRUCTURES, EROSION CONTROL SHEETS, EROSION CONTROL DETAILS, SEDIMENT CONTROL PRACTICES, FINAL STABILIZATION.

SWPPP IMPLEMENTATION CONTACTS table with columns: AGENCY, PERMIT, NAME, PHONE/E-MAIL. Rows include: CONTRACTOR'S EROSION CONTROL SUPERVISOR, MPCA, STATE DUTY OFFICER, STADIUM REPRESENTATIVE, PROJECT ENGINEER, SWCD, MN DNR WATERS, USACOE.

CALCULATIONS

TOTAL DISTURBED AREA = 5.6 ACRES
POST CONSTRUCTION IMPERVIOUS AREA = 1.1 ACRES
EXISTING IMPERVIOUS AREA = 1.1 ACRES
IMPERVIOUS NET = 0.0 ACRES (NO CHANGE)

CONSTRUCTION DATES ARE ESTIMATED TO BE FROM AUGUST 2014 TO JUNE 2015
THE RECEIVING WATER FOR STORM WATER FROM THE PROJECT INCLUDES EXISTING STORM SEWER SYSTEMS LEADING TO LAKE SUPERIOR.

CONTACTS:

THE SWPPP ENGINEER IS: DAVID SALO, TKDA - 4560 NORWAY PINES PLACE, DULUTH, MN 55811, (218) 727-8796, david.salo@tkda.com
THE WADE STADIUM RENOVATION PROJECT SUPERVISOR IS: ERIK BIRKELAND, 1532 W. MICHIGAN ST., DULUTH, MN 55806, (218) 730-4435, ebirkeland@duluthmn.gov

TIMING OF BMP INSTALLATION

THE EROSION AND SEDIMENTATION CONTROL BMPs SHALL BE INSTALLED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ON SITE, AND SHALL MEET THE NPDES PERMIT PART IV CONSTRUCTION ACTIVITY REQUIREMENTS.

- 1. TEMPORARY PERIMETER CONTROL BMPs WILL BE INSTALLED BEFORE ANY UP GRADIENT SOIL DISTURBANCE OCCURS.
2. PERMANENT AND TEMPORARY SEDIMENT TRAPS AND BASINS (IF APPLICABLE) WILL BE CONSTRUCTED BEFORE ANY HYDRAULIC ADJUSTMENTS BE MADE.
3. TOPSOIL AND TEMPORARY EROSION CONTROL BMPs SHALL BE PLACED WITHIN 7 DAYS OF COMPLETION OF EMBANKMENT
4. PLACEMENT OF RIPRAP SHALL BE COMPLETED WITHIN 24 HOURS OF PLACEMENT OF THE CULVERT AND DONE IN ONE CONTINUOUS OPERATION.
5. ONCE CONSTRUCTION ACTIVITY CEASES FOR 14 DAYS OR MORE, IN AN AREA, THAT AREA WILL BE STABILIZED WITH TEMP. OR PERMANENT BMPs FOR EROSION.
6. DURING CONSTRUCTION, STABILIZATION OF ALL EXPOSED SOIL AREAS MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION BUT IN NO CASE COMPLETED LATER THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

Table with 3 columns: NO., DATE, ISSUE RECORD. Multiple empty rows for recording.

Table with 3 columns: NO., DATE, ISSUE RECORD. Header row.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE: [Signature]
PRINTED NAME: DAVID P. SALO
LIC. NO.: 18553
DATE: 07/28/14

TKDA logo
11 East Superior Street, Suite 340
Duluth, MN 55802
218.724.8578
tkda.com

Table with 3 columns: DESIGNED, DRAWN, CHECKED. Values: JK, JK, JL.

SWPPP NOTES

C0.3

15609.000

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUSTING DIMENSIONS ACCORDINGLY.

Jul 25, 2014 - 3:22 PM
6:\Projects\TKDA\15609.000-Wade Stadium\630\66.3 SWPPP.dwg



CITY OF DULUTH WADE STADIUM

101 N. 35TH AVE. W. DULUTH, MN 55807

WADE STADIUM IMPROVEMENTS

PHASE 1: FIELD & LIGHTING

Table with 3 columns: NO., DATE, ISSUE RECORD. Contains multiple empty rows for tracking changes.

Table with 3 columns: NO., DATE, ISSUE RECORD. Contains one row with data.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE: Christopher J. Leiter
PRINTED NAME: CHRISTOPHER J. LEITER
LIC. NO.: 47889 DATE: 7/28/14

TKDA logo and address: 11 East Superior Street, Suite 340 Duluth, MN 55802 218.724.8578 tkda.com

Table with 4 columns: DESIGNED, DRAWN, CHECKED, and a fourth column. Includes names JRY and CJL/JRY.

ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS

E0.0

15609.000

Main table with 4 columns: ABBREVIATIONS, SYMBOLS, GENERAL NOTES, SCOPE OF WORK. Contains lists of abbreviations, symbols for communication, lighting, and equipment, and detailed notes and work scope.

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

DATE PLOTTED: Jul 25, 2014 - 3:13pm
DRAWING PATH: W:\Projects\15609000 Duluth Wade Stadium\04 DRAW\00 CURRENT\ELEC\E0.0.dwg



CITY OF DULUTH WADE STADIUM

101 N. 35TH AVE W. DULUTH, MN 55807

WADE STADIUM IMPROVEMENTS

PHASE 1: FIELD & LIGHTING

PANELBOARD SCHEDULE MDP. Includes table with columns for CKT NO., CIRCUIT DESIGNATION, AMPS, POLES, LOAD-KVA, POLES, AMPS, CIRCUIT DESIGNATION, CKT NO. and summary rows for SUBTOTAL and FEED THRU SUBTOTAL.

PANELBOARD SCHEDULE A. Includes table with columns for CKT NO., CIRCUIT DESIGNATION, AMPS, POLES, LOAD-KVA, POLES, AMPS, CIRCUIT DESIGNATION, CKT NO. and summary rows for SUBTOTAL and FEED THRU SUBTOTAL.

PANELBOARD SCHEDULE E. Includes table with columns for CKT NO., CIRCUIT DESIGNATION, AMPS, POLES, LOAD-KVA, POLES, AMPS, CIRCUIT DESIGNATION, CKT NO. and summary rows for SUBTOTAL and FEED THRU SUBTOTAL.

PANELBOARD SCHEDULE LPL. Includes table with columns for CKT NO., CIRCUIT DESIGNATION, AMPS, POLES, LOAD-KVA, POLES, AMPS, CIRCUIT DESIGNATION, CKT NO. and summary rows for SUBTOTAL and FEED THRU SUBTOTAL.

PANELBOARD SCHEDULE LPR. Includes table with columns for CKT NO., CIRCUIT DESIGNATION, AMPS, POLES, LOAD-KVA, POLES, AMPS, CIRCUIT DESIGNATION, CKT NO. and summary rows for SUBTOTAL and FEED THRU SUBTOTAL.

Table with columns: NO., DATE, ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE: Christopher J. Leiter, PRINTED NAME: CHRISTOPHER J. LEITER, LIC. NO.: 47889, DATE: 7/28/14

TKDA logo and address: 11 East Superior Street, Suite 340 Duluth, MN 55802 218.724.8578 tkda.com

Table with columns: DESIGNED, DRAWN, CHECKED and rows for JRY, CJL/JRY, CJL

ELECTRICAL PANELBOARD SCHEDULES

E6.2

15609.000

DATE PLOTTED: Jul 25, 2014 - 3:15pm

DRAWING PATH: W:\Projects\15609000 Duluth Wade Stadium\04_DRAW\00_CURRENT\ELEC\E6.2.dwg