WADE STADIUM IMPROVEMENTS
Phase 1: Field & Lighting
101 N 35th Ave West
Duluth, Mn. 55807

GENERAL NOTES

PROJECT #: P14-08-EB
BID #: 14-23DS

PROJECT INDEX

MATERIALS LEGEND

SYMBOLS LEGEND

DRAWING SYMBOL LEGEND

SITE LOCATION MAP

CODE REVIEW

The storm water management plan is not required as the new field drainage is cleaner than a parking lot.

Projects exceeding 75% of the appraised value shall comply with the UDC. The appraised value of the project in 2015 is $1,788,100, thus we exceed the threshold of 75% and will be required to meet the UDC requirements which include the following:

1) Stadium lighting cannot exceed 80 feet in height or 2 foot canopies at the property line.
2) Since our project has poles at 100' the project will not exceed the 2 foot canopies at the property line.
3) Parking lot requirements for landscaping are extensive and will be waived until adequate funding is in place to accomplish it.
4) UDC 5031 is the applicable chapter.
5) A screened dumpster enclosure is required, and will be addressed in Phase 2 of the project.

For toilet fixture count, portable toilet facilities will meet the requirements of the code for the interim until additional funding is secured and the permanent facilities can be constructed.

The renovation of the brick walls and new field will not trigger additional code requirements to upgrade the facilities.

Due to the seasonal use of the facility the 1 1/2" slanted ramp is acceptable.

The building is being reclassified as Type 38 construction, and as such, fireproofing of the wood roof structure is not required.
CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

2. Receiving water is Merritt Creek.
3. Where not otherwise specified; MnDot Sp Provision S-270; Rapid Stabilization Method 4 shall be used when quick stabilization is needed. Use Cat III erosion control blanket (ECB) [N. American Green S150 or approved equal]. Use with seed mixture 250@2lbs throughout the blanket at a maximum spacing in all directions of 2 feet.
4. All spills will be contained and cleaned up immediately upon discovery. Spills large enough to reach the stormwater conveyance system will be reported to the Minnesota duty officer at 1-800-422-0798.
5. The contractor shall take all possible precautions to prevent appreciable soil tracking onto roadways. Appreciable soil, mud or debris washed, tracked or deposited onto paved surfaces shall be removed prior to the end of each work day.
6. Petroleum products will be stored in tightly sealed containers, which are clearly labeled.
7. Fertilizers will be stored in a covered shed and partially used bags will be transferred to a sealable bin to reduce chance of spillage.
8. Spill kits will be included with all fueling sources and maintenance activities. Secondary containment measures will be installed and maintained by the contractor.
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. Excess paint will not be discarded in the stormwater system but will be properly disposed of according to manufacturer’s instructions.
11. Materials and equipment necessary for spill response will be readily available to be promptly deployed at any site. Equipment will include, but not be limited to: absorbent pads, gravel, sponges, sandbags, sawdust, kitty litter, liquid spill kits, and other spill control items.
12. Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site. Unless done in an approved method as approved by the project engineer.
13. Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site. Unless done in an approved method at the end of each day. Any alternative to a metal dumpster must be submitted in writing for approval by the project engineer.
14. Form release oil used for concrete work must be applied over a pallet containing absorbent to collect excess liquid. The absorbent material will be kept in a metal dumpster that is maintained by the contractor.
15. The contractor will instruct all personnel regarding the correct procedure for disposal of waste materials.
16. Any stockpile is to remain in place for more than 3 days, sediment and erosion control devices shall be used.
17. Where not otherwise specified; MnDot Sp Provision S-270; Rapid Stabilization Method 4 shall be used when quick stabilization is needed. Use Cat III erosion control blanket (ECB) [N. American Green S150 or approved equal]. Use with seed mixture 250@2lbs throughout the blanket at a maximum spacing in all directions of 2 feet.
18. Where not otherwise specified; MnDot Sp Provision S-270; Rapid Stabilization Method 4 shall be used when quick stabilization is needed. Use Cat III erosion control blanket (ECB) [N. American Green S150 or approved equal]. Use with seed mixture 250@2lbs throughout the blanket at a maximum spacing in all directions of 2 feet.
19. Use erosion control blanket with soil staples, or engineer approved equal.
NO SURFACE ELEVATIONS WERE TAKEN BELOW STADIUM ROOF BENCHMARK X IN CONCRETE, TOP OF DUGOUT WALL. ELEVATION = 631.65

BENCHMARK X IN CONCRETE, TOP OF DUGOUT WALL. ELEVATION = 631.60

SUB-SURFACE HIGH POINT ELEVATION = 627.96

SUB-SURFACE LOW POINT ELEVATION = 627.47

SUB-SURFACE LOW POINT ELEVATION = 626.98

16" GAS MAIN

16" GAS MAIN

1/2" GAS SERVICE

C3.2

SUB-SURFACE GRADING PLAN
1. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

2. MEDIUM DUTY TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

3. NYLOPLAST RISER JOINTS SHALL BE FIELD INSTALLED USING THE GUIDELINES OUTLINED IN ASTM D2855.

4. PVC CEMENT USED SHALL MEET THE REQUIREMENTS OF ASTM D2564.

5. PVC PRIMER USED SHALL MEET THE REQUIREMENTS OF ASTM F656.

6. PERFORATIONS SHOULD NOT BE ON OR WITHIN 1" OF ADAPTERS.

7. HOLES SHOULD BE STAGGERED EVERY OTHER ROW, AS SHOWN.

8. TO PREVENT BLOCKAGE OF PERFORATIONS, BASIN SHOULD BE WRAPPED IN AN ENGINEER APPROVED GEO-TEXTILE FABRIC.

9. BASE CAN BE PERFORATED TO MATCH SCHEDULE OF RISER WALL UPON REQUEST.

10. STRUCTURE SIZE         A°      ANGLE BETWEEN HOLES B      NUMBER OF HOLES

    30"                                                36°          10

11. ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

12. VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
    4" - 30" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX:  SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

13. DRAIN CASTING IN CONCRETE AREA

14. NYLOPAST 30" DRAIN BASIN

15. NYLOPAST RISER EXTENSION

16. PERFORATED SUBDRAIN PIPE

17. TRENCH DRAIN GRATE

18. TRENCH DRAIN-END PIECE FRAME
WADE STADIUM IMPROVEMENTS

PHASE 1:
FIELD & LIGHTING

1. FOUL POLE DETAIL
2. RECESS SHIMMING ON OUTFIELD WALL
3. SIGN INSTALLATION
4. CONCRETE PAVEMENT SECTIONS
5. FIELD TYPICAL SECTION
6. TRENCH SECTIONS FOR STORM SEWER

INSTALL AFTER FIELD IS COMPLETE

CONCRETE PAVEMENT

8" CONCRETE PAVEMENT
6" CONCRETE PAVEMENT

CITY OF DULUTH
WADE STADIUM

101 N. 35TH AVE W.
DULUTH, MN 55807
### Panel Schedule

#### Field & Lighting

**Phase 1: Wade Stadium Improvements**

**E6.2**

**Electrical Panelboard Schedules**

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<thead>
<tr>
<th>Panel Name</th>
<th>Panel Name</th>
<th>Panel Name</th>
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</thead>
<tbody>
<tr>
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<td>Flush</td>
<td>Surface</td>
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<tr>
<td>Feed-Thru Legs</td>
<td>Feed-Thru Legs</td>
<td>Feed-Thru Legs</td>
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<tr>
<td>Circuit Designation</td>
<td>Circuit Designation</td>
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<tr>
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<td>Poles</td>
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<td>1 Pole A</td>
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<tr>
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<tr>
<td>10 Pole J</td>
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</tbody>
</table>

**Subtotal**

Feed-Thru Subtotal: A: 0.2, B: 0.2, C: 0.2, D: 0.2, E: 0.2, F: 0.2, G: 0.2, H: 0.2, I: 0.2, J: 0.2

**The Entire System Shall Be**
- Fully Rated
- Series-Rated

Available Short Circuit Current at Panelboard Loss Is 15,000 AC