CITY OF CHICAGO
RICHARD M. DALEY
MAYOR

O'HARE MODERNIZATION PROGRAM
ROSEMARIE S. ANDOLINO
COMMISSIONER, CHICAGO DEPARTMENT OF AVIATION

ISSUED BY:
DEPARTMENT OF PROCUREMENT SERVICES
JAMIE L. RHEE, CHIEF PROCUREMENT OFFICER

O'HARE MODERNIZATION PROGRAM

SOUTH AIRFIELD
RUNWAY 10R-28L
EAST UTILITIES AND GUARD POSTS

VOLUME I OF III - GENERAL PLANS

CONTRACT AND SPECIFICATION NO.
DEPARTMENT OF AVIATION
PROJECT NO. OH6135-200.520

ISSUED FOR PROCUREMENT
JANUARY 31, 2011
STABILIZATION PRACTICES - IMPLEMENTATION REQUIREMENTS

WATER RECOVERED FROM THE TYPE OF WIND ROWS PREDOMINANTLY EXPOSED TO WIND AND WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS MUST BE CONDUCTED AT LEAST EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF CONSTRUCTION ACTIVITY.

ENVIRONMENTAL PLANNING

VERIFICATION AND COMPLIANCE MONITORING

THAT THE POLLUTION PREVENTION PLAN IS EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. SUCH INSPECTIONS MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE POLLUTED WATERS DISCHARGE PERMIT.


BY INCREASING THE VELOCITY OF THE WASTEWATER, THE NEWLY-CREATED STREAMS OR DITCHES MAY BE IMPROVED IN FUNCTIONALITY AND BECOME STABILIZED WITHOUT FURTHER MAINTENANCE.

THE FOLLOWING STORMWATER MANAGEMENT PRACTICES, AS A MINIMUM, MUST BE PLANNED AND EXECUTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE.

THE TECHNICAL GUIDANCE CONTAINED IN IEPA'S STANDARD SPECIFICATIONS FOR SOIL STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC IMPLEMENTATION REQUIREMENTS, MUST ALSO BE CONSIDERED.

THE following POLLUTION PREVENTION PLAN, SITE PLANS MUST INDICATE THE LOCATION OF EACH DISCHARGE SOURCE AND THE EFFECTIVE MEASURES TO BE TAKEN TO PREVENT DISCHARGES AND CONTROL POLLUTANTS ENTERING THE ENVIRONMENT.

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SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL CONTACT THE KANE DUPage SOIL AND WATER CONSERVATION DISTRICT (KOSSCWD) OR THE NORTH KANKAN-DOU SOIL AND WATER CONSERVATION DISTRICT (NKCWD) AS APPROPRIATE, ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO LAND CLEARANCE, ONE WEEK PRIOR TO THE INSTALLATION OF ALL DRAINAGE PIPING SYSTEM (IF APPLICABLE) OR ONE WEEK PRIOR TO FINAL INSPECTION.

2. THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO THE LUCES ENVIRONMENTAL PROTECTION AGENCY (EPA) FOR THE PROJECT. THE CONTRACTOR IS NOT PERMITTED TO BEGIN WORK UNTIL 60 DAYS carratories, ALTERATIONS OR SUBMISSIONS TO THE LUCES ENVIRONMENTAL PROTECTION AGENCY (EPA) FOR THE PROJECT. THE CONTRACTOR IS NOT PERMITTED TO BEGIN WORK UNTIL 60 DAYS PRIOR TO THE INSTALLATION OF ALL DRAINAGE PIPING SYSTEM (IF APPLICABLE) OR ONE WEEK PRIOR TO FINAL INSPECTION.

3. THE CONTRACTOR SHALL MAINTAIN AND OBSERVE ALL EXISTING MILITARY AIRPORT SAFETY MEASURES. THE CONTRACTOR SHALL COOPERATE WITH THE COMMISSIONER OR THE COMMISSIONER’S REPRESENTATIVE STATING THESE FACTS.

4. THE CONTRACTOR MAY USE OTHER METHODS TO CONTROL RUNOFF, INCLUDING, BUT NOT LIMITED TO, TEMPORARY DIVERSION OF WATER RESOURCES (IDNR-OWR) PRIOR TO INSTALLATION. THE COMMISSIONER WILL FACILITATE THE PERMIT APPLICATION PROCEDURE. ALL PERMITS REQUIRED UNDER THE TEMPORARY STREAM CROSSINGS IN THE CONTRACT DOCUMENTS. IN CASE OF REGULATED WATERS, THE CONTRACTOR MUST REQUEST THE PERMIT FROM THE FEDERAL OR STATE AGENCY RESPONSIBLE FOR THE REGULATED WATER.

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### Soil Protection Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Final Stabilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OAP Permanent Seed Mix</td>
<td><strong>JUNE 2013</strong></td>
</tr>
<tr>
<td>2</td>
<td>Late Fall Sod Mix</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Dormant Seeding</td>
<td></td>
</tr>
</tbody>
</table>

**Stabilization During Construction Activities**

- **Stabilization During Construction Maintenance**
  - Responsible Party: Commissioner
  - Duration: At least once every calendar day and within 24 hours of the end of a storm event that is 0.10 inch or greater (equivalent snowfall).

- **Stabilization During Construction Observation**
  - Responsible Party: Contractor
  - Completion of Contract: On-going after construction completion.

### Proposed Work Schedule

**Mobilization/Implementation/Erosion Control**

**Description of Construction Activities**

**Final Stabilization**

**Inspection and Maintenance Schedule**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Responsible Party</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Contractor</td>
<td>On-going after construction completion.</td>
</tr>
</tbody>
</table>

**Vegetation Maintenance**

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<thead>
<tr>
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<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Aviation</td>
<td>Ongoing after construction completion.</td>
</tr>
</tbody>
</table>

### Responsible Parties

- **Mobilization/Implementation/Erosion Control**
  - Responsible Party: Contractor

- **Vegetation Maintenance**
  - Responsible Party: Department of Aviation

- **Stabilization During Construction Observation**
  - Responsible Party: Contractor

- **Stabilization During Construction Maintenance**
  - Responsible Party: Commissioner

**Contractor**

**Inspector**

**Signatures**

**Date**

### Soil Erosion and Sediment Control

- **Vegetative Filter Strip**
  - Can be used on steep slopes or in conjunction with shrubs and trees.
  - Higher rates of seed application are required.

- **Temporary Sedging**
  - Used to control sediments at storm drain inlet for temporary paved surfaces.
  - Temporarily protects streambanks from erosion.

- **Permanence Sedging**
  - Used to control sediments at storm drain inlet for permanent paved surfaces.
  - Permanent seedings, with shrubs and trees.

- **Soil Protection Schedule**
  - Includes:
    1. All soil erosion and sediment control plans and details
    2. Existing conditions and demolition plans
    3. Utility plans showing drainage and storm sewer systems

**Silt Fence**

- **Type 1: Tall Fescue @ 300 lbs/acre and Perennial Rye @ 75 lbs/acre**
  - Type 2: Tall Fescue @ 250 lbs/acre and Perennial Rye @ 75 lbs/acre
  - Type 3: Sodding plants, trees, and shrubs
  - Type 4: Permanent seeding
  - Type 5: Dormant seeding

**Silt fence**

- Protects streambanks from erosion.

**Silt fence**

- Used to control sediments at storm drain inlet for paved surfaces.

**Soil Protection Schedule**

- Includes:
  1. All soil erosion and sediment control plans and details
  2. Existing conditions and demolition plans
  3. Utility plans showing drainage and storm sewer systems

**Stabilization During Construction Observation**

- Responsible Party: Contractor
- Completion of Contract: On-going after construction completion.

**Stabilization During Construction Maintenance**

- Responsible Party: Commissioner
- Duration: At least once every calendar day and within 24 hours of the end of a storm event that is 0.10 inch or greater (equivalent snowfall).
1. Contractor must install perimeter erosion barrier at any location in which sheet flows may result in sediment runoff outside the construction limits. Locations to be determined in the field by the Commissioner. The contractor may use other methods to establish Erosion Zones limited to temporary diversion pipes, temporary sediment traps, swales, and ditches to convey water.

2. All waters leaving the site must be treated for stormwater before being released downstream. Under no circumstances is sediment-laden water allowed to go uncontrolled to the public storm drain system.

3. Erosion control and stabilization measures must follow specification P-156 of the Project Specifications.

4. All disturbed soils are to be stabilized temporarily or permanently within 14 days of construction activity having ceased if the soil is to remain undisturbed for more than 14 days. Caps and tires to remain undisturbed for a period of 28 days.

5. The erosion control measures shown on sheets CG-011 thru CG-014 must be installed prior to the commencement of construction and maintained on sheets CG-015 thru CG-018.

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NOTES:
1. CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AT ANY LOCATION IN WHICH SHEET CG-011 MAY RESULT IN SEDIMENT EROSION, SUCH AS PROPOSED TARMAC PB LOCATION. SITES TO BE DETERMINED AT THE FIELD BY THE COMMISSIONER. THE CONTRACTOR MAY USE OTHER METHODS TO CONTROL RUNOFF, INCLUDING, BUT NOT LIMITED TO, TEMPORARY DIVERSION DRAINS, TEMPORARY SEDIMENT TRAPS, SHAPED DITCHES TO CONVEY WATER, ETC.
2. ALL WATERS LEAVING THE SITE MUST BE TREATED FOR SEDIMENT BEFORE BEING RELEASED DOWNSTREAM. UNDER NO CIRCUMSTANCE IS SEDIMENT LEACH TO BE ALLOWED TO LEAVE THE CONSTRUCTION SITE.
3. EROSION CONTROL AND STABILIZATION MEASURES MUST FOLLOW SPECIFICATION P-156 OF THE PROJECT SPECIFICATIONS.
4. ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN 14 DAYS OF CONSTRUCTION ACTIVITY HAVING CAUSED THE SOIL TO REMAIN UNSTABILIZED FOR MORE THAN FOURTEEN (14) DAYS.
5. THE EROSION CONTROL MEASURES SHOWN ON SHEETS CG-011 MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAINTAINED ON SHEETS CG-011 THROUGH CG-028.

EXISTING CARGO FUEL FACILITY

PROPOSED POST OFFICE ROAD

EXISTING SOUTH DETENTION BASIN

MATCH LINE SEE SHEET CG-015

PROPOSED TAXIWAY 25 (BY OTHERS)

MATCH LINE SEE SHEET CG-015

LEGEND

EXISTING SOUTH DETENTION BASIN

INLET PROTECTION (TYPICAL)

EXISTING CARGO FUEL FACILITY

PROPOSED POST OFFICE ROAD

INLET PROTECTION (TYPICAL)
NOTES:

1. CONTRACTOR MUST INSTALL PERMEABLE PROGRESSION BARRIER AT ANY LOCATION IN WHICH SOIL PLACEMENT MAY RESULT IN SEDIMENT RUNOFF OUTSIDE THE CONSTRUCTION LIMITS. LOCATIONS TO BE DETERMINED BY THE CONTRACTOR. SOIL AND/OR SEDIMENT MUST BE CONTAINED IN THE BARRIER AND MUST BE BURIED. SEDIMENT TRAP MF-2005 IS RECOMMENDED TO BE INSTALLED AT THE END OF THE BARRIER;

2. ALL MATURE LEAVING THE SITE MUST BE TREATED FOR SEDIMENT BEFORE BEING RELEASED DOWNSTREAM. UNDER NO CIRCUMSTANCES IS SEDIMENT ALLOWED TO LEAVE THE CONSTRUCTION SITE;

3. EROSION CONTROL AND STABILIZATION MEASURES MUST FOLLOW SPECIFICATIONS OR P-109 OF THE PROJECT Specifications;

4. ALL DISTURBED SOILS ARE TO BE STABILIZED TEMPORARILY OR PERMANENTLY WITHIN SEVEN DAYS OF CONSTRUCTION AND ANY WORKS OF ART OR LOCAL POLICIES REQUIREMENT OR FAD TO DATE.


STORMWATER POLLUTION PREVENTION PLAN
EXISTING CONDITION

OHARE INTERNATIONAL AIRPORT
OHARE MODERNIZATION PROGRAM
SOUTH AIRFIELD
STORMWATER POLLUTION PREVENTION PLAN
EXISTING CONDITION

OHARE RUNWAY DESIGNERS, LLC
OHARE MODERNIZATION PROGRAM
SOUTH AIRFIELD
EAST UTILITIES AND GUARD POSTS

O'HARE INTERNATIONAL AIRPORT
OHARE MODERNIZATION PROGRAM
SOUTH AIRFIELD
STORMWATER POLLUTION PREVENTION PLAN
EXISTING CONDITION
NOTES:

1. CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AT ANY LOCATION IN WHICH SHEET FLOWS MAY RESULT IN SEDIMENT RUNOFF OUTSIDE THE CONSTRUCTION LIMITS. THE LOCATIONS TO BE DETERMINED IN THE FIELD BY THE COMMISSIONER. THE CONTRACTOR MAY USE OTHER METHODS TO CONTROL RUNOFF SUCH AS TEMPORARY DIVERSION SWALES, TEMPORARY SEDIMENT TRAPS, SHAPED DITCHES TO CONVEY WATER, ETC.

2. ALL WATERS LEAVING THE SITE MUST BE TREATED FOR SEDIMENT BEFORE BEING RELEASED DOWNSTREAM. UNDER NO CIRCUMSTANCE IS SEDIMENT LADEN WATER ALLOWED TO LEAVE THE CONSTRUCTION SITE.

3. EROSION CONTROL AND STABILIZATION MEASURES MUST FOLLOW SPECIFICATION P-156 OF THE PROJECT SPECIFICATIONS.

4. ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN SEVENTY (70) DAYS OF CONSTRUCTION ACTIVITY HAVING CEASED IF THE SOIL IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS.

5. THE EROSION CONTROL MEASURES SHOWN ON SHEETS CG-011 THRU CG-040 MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAINTAINED ON SHEETS CG-041 THRU CG-068.

6. PREVENTION PLAN

7. STORMWATER POLLUTION

8. EXISTING CONDITION

9. POSITIONING

10. MATCH LINE SEE SHEET CG-014
NOTES:

1. CONTRACTOR MUST INSTALL PERMANENT EROSION BARRIER AT ANY LOCATION IN WHICH SEDIMENT FLOWS MAY RESULT IN SEDIMENT RUNOFF OUTSIDE THE CONSTRUCTION LIMITS. LOCATIONS TO BE DETERMINED BY THE COMMISSIONER. THE CONTRACTOR MAY USE OTHER METHODS OF EROSION CONTROL TO AVOID EROSION發布率 EXCESSIVE EROSION SLOPES, TEMPORARY SEDIMENT TRAPS, SHAPED DITCHES TO CONVEY WATER, ETC.

2. ALL WATERS LEAVING THE SITE MUST BE TREATED FOR EROSION BEFORE BEING RELEASED DOWNSTREAM. UNDER NO CIRCUMSTANCES IS SEDIMENT LADEN WATER ALLOWED TO LEAVE THE CONSTRUCTION SITE.

3. EROSION CONTROL AND STABILIZATION MEASURES MUST LEAVE THE CONSTRUCTION SITE.

4. ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN SEVEN (7) DAYS OF CONSTRUCTION ACTIVITY HAVING CEASED IF THE SOIL IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS.

5. THE EROSION CONTROL MEASURES SHOWN ON SHEETS CG-011 THROUGH CG-018 MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAINTAINED ON SHEETS CG-011 THROUGH CG-018.


MATCH LINE SEE SHEET CG-022

STORMWATER POLLUTION PREVENTION PLAN
PROPOSED CONDITION

O'HARE INTERNATIONAL AIRPORT
OHARE MODERNIZATION PROGRAM
SOUTH AIRFIELD RUNWAY 10R-28L
EAST UTILITIES AND GUARD POSTS

PROPOSED POST OFFICE ROAD

SOUTH AIRFIELD RUNWAY 10R-28L
EAST UTILITIES AND GUARD POSTS

PROPOSED GUARD POST 3

O'HARE RUNWAY DESIGNERS, LLC
T: 312-429-8100
OHARE INTERNATIONAL AIRPORT
COMMISSIONER
ROSEMARIE S. ANDOLINO

MATCH LINE SEE SHEET CG-022

LEGEND

8" PPVC (TYPICAL)

PERMANENT SEEDING AND
TEMPORARY SEEDING (TYPICAL)

PREPARED BY: O'HARE RUNWAY DESIGNERS, LLC
DATE: 01/31/2011
PROJECT NO.: OH6135.200.520
PROJECT NAME: EAST UTILITIES AND GUARD POSTS
VOLUME II
RUNWAY 10R-28L
PROPOSED POST OFFICE ROAD

PROPOSED GUARD POST 3

MATCH LINE SEE SHEET CG-022
NOTES:

1. CONTRACTOR MUST INSTALL PERMEABLE EROSION BARRIER AT ANY LOCATION IN WHICH SHEET FLOWS MAY RESULT IN EROSION. RUNOFF PROTECTION TYPICAL PROTECTION UNITS, LOCATIONS TO BE DETERMINED IN THE FIELD BY THE COMMISSIONER. THE CONTRACTOR MAY USE OTHER METHODS TO CONTROL RUNOFF, EXCEPT WHERE SPECIFIED TO USE TYPICAL PROTECTION UNITS.

2. ALL WATERS LEAVING THE SITE MUST BE TREATED FOR SEDIMENT BEFORE BEING RELEASED DOWNSTREAM. UNDER NO CIRCUMSTANCES IS SEDIMENT-LADEN WATER ALLOWED TO LEAVE THE CONSTRUCTION SITE.

3. EROSION CONTROL AND STABILIZATION MEASURES MUST FOLLOW SPECIFICATION R-168 OF THE PROJECT SPECIFICATIONS.

4. ALL DISTURBED SOILS ARE TO BE STABILIZED TEMPORARILY OR PERMANENTLY, AT THE CONCLUSION OF THE PROJECT. EROSION ACTIVITY SHALL BE KEPT TO A MINIMUM; IF THE SOIL IS TO REMAIN UNSTABILIZED FOR MORE THAN FOURTEEN (14) DAYS.

5. THE EROSION CONTROL MEASURES SHOWN ON SHEETS CG-011 THROUGH CG-028 MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAINTAINED ON SHEETS CG-021 THROUGH CG-028.
3. Erosion control and silt control measures must follow specification K-16 of the project specifications.
4. All disturbed soils are to be stabilized temporarily or permanently, as described in the erosion control activity. If the soil is to remain undisurbed, then permanent erosion control measures are required.
5. The erosion control measures shown on sheets CG-011 through CG-028 are to be completed prior to the commencement of construction and maintained on sheets CG-029 through CG-038.
6. Work associated with culvert construction shall take place in the dry means and methods of culvert construction and non-erosion control measures. See specification section P-190 for erosion control.
A base of 2" aggregate will be placed in the pit to a minimum depth.

Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

The standpipe will extend 12" to 18" above the lip of the pit. The standpipe will be constructed by perforating a 12" to 24" diameter PVC perforated pipe or corrugated metal or PVC pipe.

If discharge will be pumped directly to a storm drainage system, the standpipe will then be backfilled with 2" aggregate. Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.

Posts

Filter Fabric

ATTACHING TWIST SILT FENCE

NOTES:

1. Drainage pipes shall be sized to convey the rate of water seepage into the pipe.
2. For the culvert headwall, shall meet IDOT Quality Designation A. See plans for H dimension.
3. Natural Resources Conservation Service (NRCS) requires the following design elevation of the stone berm. See plans for H dimension.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. The standpipe will be constructed by perforating a 12" to 24" diameter PVC perforated pipe or corrugated metal or PVC pipe.
6. If discharge will be pumped directly to a storm drainage system, the standpipe will then be backfilled with 2" aggregate. Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
7. If desired, 1/4" - 1/2" hardware cloth may be placed around the standpipe will be wrapped with filter fabric before installation.

A computer filename of CG-030 is available for reference.
The rock will be placed according to construction specification. Any drainage facilities required because of washing shall be installed according to method 1 and class I, II, III, or IV and shall be placed over the cleared area prior to the placing of rock.

Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, III, or IV and shall be placed over the cleared area prior to the placing of rock.

Maximum drainage area to each dam is 10 acres. ROCK CHECK DAM - RIPRAP

Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to method 1 and class I, II, III, or IV and shall be placed over the cleared area prior to the placing of rock.

GEOTEXTILE FILTER BAG WITH REINFORCED STAINLESS STEEL FRAME

A. The geotextile shall meet the requirements in material specification.

INLET PROTECTION - INLET FILTER

5. If wash racks are used they shall be installed according to the manufacturer’s specifications.

INLET PROTECTION - INLET FILTER (ROUND)

3. The rock will be placed in a manner to ensure the rock mass will not settle. 2.5' in Tabular:

NOTE:

2. Place washed or reclaimed rock over the cleared area to a depth of 2.5' before placing of rock. A minimum of 3' of washed or reclaimed rock shall be placed over each section of the rock check dam.

3. The geotextile shall meet the requirements in material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, III, or IV and shall be placed over the cleared area prior to the placing of rock.

4. The geotextile shall meet the requirements in material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, III, or IV and shall be placed over the cleared area prior to the placing of rock.

5. The rock will be placed in a manner to ensure the rock mass will not settle. 2.5' in Tabular:

6. The rock will be placed in a manner to ensure the rock mass will not settle. 2.5' in Tabular:

7. If wash racks are used they shall be installed according to the manufacturer’s specifications.
NOTES:
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class , or .
2. The rock riprap shall meet the IDOT requirements for the following gradation .
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.
4. All construction shall comply with applicable federal, state, and local laws and regulations.
**DRAINAGE NOTES:**

1. **SEE SHEETS CG-301 TO CG-306 FOR STORM SEWER PROFILES.**

2. ANY UNDERGROUND WATER WILL BE PUMPED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

3. **ALL STORM SEWER CONNECTIONS TO EXISTING STRUCTURES, INCLUDING REMOVAL OF EXISTING CONCRETE BENCHES, ARE INCIDENTAL TO THE STORM SEWER PIPE ITEMS.**

4. **ALL CONNECTIONS TO EXISTING STRUCTURES OR PIPES SHALL BE CORED. COST INCIDENTAL TO THE STORM SEWER PIPE ITEMS.**

5. **PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND ROUNDED TO THE CLOSEST WHOLE NUMBERS.**

6. **CONNECTION TO EXISTING STORM SEWERS SHALL BE DONE BY A LICENSED DRAINLAYER.**

7. **ALL PIPE STUDS SHALL BE PLUGGED WITH BRICK AND MORTAR AND ARE INCIDENTAL TO THE STORM SEWER PIPE PAY ITEMS.**

8. **SEE SHEETS CU-162 AND CU-163 FOR RIM ADJUSTMENTS TO BE MADE TO EXISTING UTILITY STRUCTURES.**

9. **FRIENDRIES MUST BE BACKFILLED UNDER PROPOSED AND FUTURE PAVEMENT IN ACCORDANCE WITH SPECIFICATIONS.**

10. **SEE SHEET CG-429 FOR FRAME, LID AND GRATE DETAILS.**

**DRAWING SPECIFICATIONS:**

1. **LOCATIONS OF EXISTING PRECAST CURB ARE TO BE PRODUCED IN ACCORDANCE WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

**WATER PROOF CONCRETE (WHEN REQUIRED):**

- **SHAPE AND SPACE STRUCTURE FROM PLANS OR SLIGHTLY IN ACCORDANCE WITH UNLINED & UNEQUAL PIPE LENGTHS, USES, ETC.**
- **HOLES, risking EXCAVATION OF STRUCTURE.**
- **CONSTRUCTION MUST SUBMIT SHOP DRAWINGS OF SHORING OR BRACING MEANS.**
- **INCIDENTAL TO STRUCTURE.**

1. **ORDER BARS WHOLE LENGTH & FIELD CUT TO FIT.**

2. **REFER TO LATEST TECHNICAL REPORT FOR UPDATED Data.**

3. **SHAPER FILL CONCRETE (W REQUIRED) TO PROVIDE SMOOTH FLOW BETWEEN BOUNDARY PIPE LINES AND OUTFALL.**

4. **IN ALL AREAS, THE MULD SHALL BE PLACED AND COMPACTED TO REQUIRED DENSITY UP TO THE PROPOSED GRADE ELEVATION, AND SUBSEQUENTLY EXCAVATED THROUGH FOR NEW UNDERGROUND STRUCTURES.**

5. **AIRCRAFT LOADED STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH FAA AC 150/5320-6 (LATEST EDITION), APPENDIX I, DESIGN OF STRUCTURES FOR HIGHWAY AIRCRAFT.**

**STRUCTURE NOTES:**

1. **SEE SHEETS CG-301 TO CG-306 FOR DRAINAGE PROFILES.**

2. **SHAPE AND SPACE STRUCTURE FROM PLANS OR SLIGHTLY IN ACCORDANCE WITH UNLINED & UNEQUAL PIPE LENGTHS, USES, ETC.**

3. **CONSTRUCTION MUST SUBMIT SHOP DRAWINGS OF SHORING OR BRACING MEANS.**

1. **ORDER BARS WHOLE LENGTH & FIELD CUT TO FIT.**

2. **REFER TO LATEST TECHNICAL REPORT FOR UPDATED Data.**

3. **SHAPER FILL CONCRETE (W REQUIRED) TO PROVIDE SMOOTH FLOW BETWEEN BOUNDARY PIPE LINES AND OUTFALL.**

4. **IN ALL AREAS, THE MULD SHALL BE PLACED AND COMPACTED TO REQUIRED DENSITY UP TO THE PROPOSED GRADE ELEVATION, AND SUBSEQUENTLY EXCAVATED THROUGH FOR NEW UNDERGROUND STRUCTURES.**

5. **AIRCRAFT LOADED STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH FAA AC 150/5320-6 (LATEST EDITION), APPENDIX I, DESIGN OF STRUCTURES FOR HIGHWAY AIRCRAFT.**

**DESIGNED:**

1. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

**NOTES:**

1. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

2. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

**CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR SHORING OR BRACING (INCIDENTAL TO STRUCTURE).**

**SHORE OR BRACE STRUCTURE FROM TILTING OR SLIDING DURING CONSTRUCTION (INCIDENTAL TO STRUCTURE).**

**ALSO, SOIL CONDITIONS MAY REQUIRE SPECIAL SHORING OR BRACING FOR UNBALANCED SOIL PRESSURE.**

**SPECIFICATIONS:**

1. **WATERPROOF CONCRETE SURFACE IN CONTACT WITH SOIL (EXCLUDING BOTTOM SLAB) USING APPROVED SEALANT (SEE SPECIFICATIONS).**

2. **SYSTEMIC BAR FORMS FOR HIGHWAY AIRCRAFT.**

3. **ORDER BARS WHOLE LENGTH & FIELD CUT TO FIT.**

4. **REFER TO LATEST TECHNICAL REPORT FOR UPDATED Data.**

5. **SHAPER FILL CONCRETE (W REQUIRED) TO PROVIDE SMOOTH FLOW BETWEEN BOUNDARY PIPE LINES AND OUTFALL.**

6. **IN ALL AREAS, THE MULD SHALL BE PLACED AND COMPACTED TO REQUIRED DENSITY UP TO THE PROPOSED GRADE ELEVATION, AND SUBSEQUENTLY EXCAVATED THROUGH FOR NEW UNDERGROUND STRUCTURES.**

7. **AIRCRAFT LOADED STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH FAA AC 150/5320-6 (LATEST EDITION), APPENDIX I, DESIGN OF STRUCTURES FOR HIGHWAY AIRCRAFT.**

8. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

9. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**

10. **NOTE: NON-COMBUSTIBLE, SUPPORT AND PROTECT EXISTING UTILITIES WHEN CROSSING WITH THE INSTALLATION OF ANY PROPOSED UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITY. COORDINATE WITH THE COMMISSIONER AND APPLICABLE UTILITY COMPANIES.**
NOTES:
1. REFER TO DRAINAGE NOTES ON CG-201. ALL DRAINAGE NOTES ARE APPLICABLE TO THIS PLAN SHEET.

EXISTING 154' STORM SEWER

EXISTING 142' STORM SEWER

EXISTING 148' STORM SEWER

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NOTES:
1. REFER TO DRAINAGE NOTES ON CG-201. ALL DRAINAGE NOTES ARE APPLICABLE TO THIS PLAN SHEET.

MATCH LINE SEE SHEET CG-223
1. REFER TO DRAINAGE NOTES ON CG-201. ALL DRAINAGE NOTES:

- 4" BSWP @ 1.5% MIN.
- 4" BSWP @ 1.5% MIN.
- 4" BSWP @ 1.5% MIN.
- 4" BSWP @ 1.5% MIN.

LEGEND

- MULTIPLE ANODE TEST STATION N + NO. OF ANODES
NOTES:
1. REFER TO DRAINAGE NOTES ON CG-201. ALL DRAINAGE NOTES ARE APPLICABLE TO THIS PLAN SHEET.
NOTES ARE APPLICABLE TO THIS PLAN SHEET.

1. REFER TO DRAINAGE NOTES ON CG-201. ALL DRAINAGE NOTES ARE APPLICABLE TO THIS PLAN SHEET.
CITY OF CHICAGO
RICHARD M. DALEY
MAYOR

O'HARE MODERNIZATION PROGRAM
ROSEMARIE S. ANDOLINO
COMMISSIONER, CHICAGO DEPARTMENT OF AVIATION

ISSUED BY:
DEPARTMENT OF PROCUREMENT SERVICES
JAMIE L. RHEE, CHIEF PROCUREMENT OFFICER

O'HARE MODERNIZATION PROGRAM
SOUTH AIRFIELD
RUNWAY 10R-28L
EAST UTILITIES AND GUARD POSTS

VOLUME III OF III - CM SOUTH AIRFIELD FIELD
OFFICE COMPLEX RELOCATION
CONTRACT AND SPECIFICATION NO.
DEPARTMENT OF AVIATION
PROJECT NO. OH6135-200.520

ISSUED FOR PROCUREMENT
JANUARY 31, 2011
1. The information shown on this drawing concerning type and location of underground utilities is not guaranteed accurate or all inclusive. The contractor is responsible to verify the type and location of underground utilities. As necessary, to avoid damage.

2. All work within limits shown to be part of lump sum item. See specification section M-102 for more information.

3. See Vol. 2 Plans for demolition outside limits shown.