ADDENDUM NO. 2
May 31, 2013

Duluth International Airport
New Parking Structure and Exterior Wayfinding Signage
Bid Package 2D
Duluth, MN 55811

TO ALL CONTRACTORS:

The following are clarifications and/or changes to the Plans and Specifications, dated May 15, 2013, to be Bid on June 11, 2013, for the above named Project. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

1. A specific Bid Form Packet is required for the Prime Contractor’s bid submission on this project. Bidders must contact Kim Lofquist, Kraus-Anderson® Construction Company, a: 218-722-3775 or kim.lofquist@krausanderson.com to obtain the required Bid Form Packet.

   A. Bid Form Packet documents can be found in Volume 1 of the Project Manual following is a list of those documents included in the Bid Form Packet: City of Duluth cover page; Bid Form; City of Duluth Purchasing Division General Specifications; AIA Document A310 Bid Bond; Affidavit of Non-Collusion; EEO Affirmative Action Policy Statement & Compliance Certificate; Forms 1 & 2 for Demonstration of Good Faith Efforts, Good Faith努力s Affidavit and Certificate of Good Faith Efforts.

2. Section 00 41 00 – Bid Form
   A. Bid Form
      1. Bid Form replaced in its entirety.
3. **Section 01 01 40 Work Scope Descriptions**

A. **Work Scope Index**


2. Work Scope 5.10D – Struct. Steel & Misc. Metal Fabrication & Erection – Delete Specification Section and Remarks: “05 75 13 Wire Cloth Complete” and replace with the following “05 75 12 Wire Cloth Complete, As It Relates to Alternate No. 10B and 11A.”

3. Work Scope 7.10D – Metal Panels & Roofing – Add the following under Specification Sections and Remarks: “05 75 12 Wire Cloth Complete, As It Relates to Alternate No. 10C and 11B.”

4. Work Scope 7.10D – Metal Panels & Roofing – Add the following under Specification Sections and Remarks: “05 50 00 Metal Fabrications Complete, As It Relates to Alternate No. 12B.”

B. **Work Scope Descriptions**

1. Work Scope 3.40D – Precast Wall Panel & Floor Plank:
   
a. Delete Specification Section reference “03 41 01 Precast Hollow Core Slabs Complete.” This section is no longer included.

   b. Add the following to Par. 1.03, M. Coordination of Openings Required by Others, Item 2 to read: “Include required sleeves in Precast Floor Plank as shown on Sheet E101 for electrical conduit.”

2. Work Scope 5.10D – Struct. Steel & Misc. Metal Fabrication & Erection:
   
a. Delete Specification Section reference “05 75 13 Wire Cloth Complete” and replace with the following “05 75 12 Wire Cloth Complete, As It Relates to Alternate No. 10B and 11A.”

   b. Add the following to Par. 1.02, R. Equipment Screen, Item 4 to read: “All work associated with the Equipment Screen is to be included in Alternate No. 12A. Do not include this in base bid.”

3. Work Scope 7.10D – Metal Panels & Roofing:
   
a. Add the following under Specification Sections: “05 75 12 Wire Cloth Complete, As It Relates to Alternate No. 10C and 11B.”

   b. Add the following under Specification Sections: “05 50 00 Metal Fabrications Complete, As It Relates to Alternate No. 12B.”
4. Work Scope 10.20D – Interior & Exterior Wayfinding Signage:
   a. Add the following to Par. 1.07 Unit Prices and Cost Break Downs, Item B to read: "Provide a breakout price on the Construction Manager issued Bid Form for all work associated with the construction of the Exterior Wayfinding Signage. This price should include all material, labor, equipment, and overhead and profit."

5. Work Scope 26.10D – Electrical Systems:
   a. Add the following to Par. 1.07 Unit Prices and Cost Break Downs, Item B to read: "Provide a breakout price on the Construction Manager issued Bid Form for all work associated with the construction of the Exterior Wayfinding Signage. This price should include all material, labor, equipment, and overhead and profit."
   b. Add the following Paragraph to Section 1.03 Special Coordination or Installation Requirements, Item J to read: "J. Communication Tie In to Existing Terminal: Reference reflective ceiling plan, sheet A210 – For Reference, that is included with this addendum for work associated with communication wiring tie in to existing terminal. A site visit is encouraged to review the as-built conditions. All the work associated with the removal and reinstallation of finishes is to be included with this work."

5. General Information
   A. See attached Pre-Bid Meeting Sign-In Sheet.
   B. See attached Kraus-Anderson Construction Company Pre-Bid Meeting Agenda.
   C. The Pre-Bid Meeting clarification: The Pre-Bid Meeting was not mandatory; however, contractors are still required to review the Sign-In Sheet and Agenda. A site visit is also recommended to ensure contractors have an understanding of the existing conditions.
   D. Add Reynolds, Smith & Hills, Inc.'s, Addendum No. 2 dated May 31, 2013, in its entirety.

END OF ADDENDUM NO. 2
00 41 00 - BID FORM

(Bidder may copy this form on his own letterhead)

SUBMIT IN DUPLICATE

BID FORM

BID TO: Duluth Airport Authority;
By the City Purchasing Agent
Room 100 City Hall
Duluth, MN 55802

BID FROM: ____________________________________________

_____________________________________________________

_____________________________________________________

_____________________________________________________

In accordance with the Invitation to Bid and the proposed Contract Documents prepared by Reynolds, Smith and Hills, Inc., relating to the construction of:

Duluth International Airport
New Parking Structure and Exterior Wayfinding Signage
Bid Package 2D
Duluth, Minnesota

the undersigned, having visited the site of proposed construction and having become thoroughly familiar with local conditions affecting the cost and performance of the Work and with all requirements of the Contract Documents and related Addenda, hereby proposes and agrees to provide all labor, materials, equipment, applicable permits and taxes required to construct and complete the Work in accordance with the Contract Documents and Addenda for the following amounts:

Base Bids:

Instructions for Submitting Base Bids:

• Base Bid includes the Parking Structure and Skywalk.
• Provide Skywalk and Exterior Wayfinding Signage breakdown in space provided. These costs are to be included in the base bid and broken out in the space provided.
• Note: Cost breakdowns are for funding purposes only. These will not have an impact on award.
• For bidders wishing to submit bids on more than one Work Scope, space has been provided to submit bids for Multiple Work Scopes on the same Bid Form.
• State Base Bid in both words and figures in spaces provided.
1. Base Bid for Work Scope No. 2.20D Title Civil, Site Work, & Building Earthwork
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk (Part of Unit Price 71)
      Breakdown Amount: ____________________________ $ __________________

2. Base Bid for Work Scope No. 2.90D Title Landscaping
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: ____________________________ $ __________________

3. Base Bid for Work Scope No. 3.30D Title Concrete
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: ____________________________ $ __________________

4. Base Bid for Work Scope No. 3.40D Title Precast Wall Panel & Floor Plank
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: ____________________________ $ __________________

5. Base Bid for Work Scope No. 4.20D Title Unit Masonry
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: ____________________________ $ __________________

6. Base Bid for Work Scope No. 5.10D Title Struct. Steel & Misc. Metal Fabrication & Erection
   Bid Amount: ____________________________ $ __________________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: ____________________________ $ __________________
### 00 41 00 - BID FORM

7. **Base Bid for Work Scope No. 7.10D Title Metal Panels & Roofing**
   - Bid Amount: ___________________________ $ ____________
   - a. Cost Breakdown No. 1: Skywalk
      - Breakdown Amount: ___________________________ $ ____________

8. **Base Bid for Work Scope No. 8.22D Title Overhead Coiling Doors**
   - Bid Amount: ___________________________ $ ____________
   - a. Cost Breakdown No. 1: Skywalk
      - Breakdown Amount: ___________________________ $ ____________

9. **Base Bid for Work Scope No. 8.30D Title Doors, Frames, Hardware, & Misc. Specialties (Materials Only)**
   - Bid Amount: ___________________________ $ ____________
   - a. Cost Breakdown No. 1: Skywalk
      - Breakdown Amount: ___________________________ $ ____________

10. **Base Bid for Work Scope No. 8.40D Title Aluminum Framed Automatic Entrances, Storefronts, and Glass**
    - Bid Amount: ___________________________ $ ____________
    - a. Cost Breakdown No. 1: Skywalk
       - Breakdown Amount: ___________________________ $ ____________

11. **Base Bid for Work Scope No. 9.20D Title Metal Studs & Drywall**
    - Bid Amount: ___________________________ $ ____________
    - a. Cost Breakdown No. 1: Skywalk
       - Breakdown Amount: ___________________________ $ ____________

12. **Base Bid for Work Scope No. 9.60D Title Terrazzo**
    - Bid Amount: ___________________________ $ ____________
    - a. Cost Breakdown No. 1: Skywalk
       - Breakdown Amount: ___________________________ $ ____________

---

DULUTH INTERNATIONAL AIRPORT  
NEW PARKING STRUCTURE AND  
EXTERIOR WAYFINDING SIGNAGE  
BID PACKAGE 2D  
ISSUE FOR BID
13. Base Bid for Work Scope No. 9.65D Title Flooring
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________

14. Base Bid for Work Scope No. 9.90D Title Painting
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________

15. Base Bid for Work Scope No. 10.20D Title Interior & Exterior Wayfinding Signage
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________
   b. Cost Breakdown No. 2: Exterior Wayfinding Signage
      Breakdown Amount: __________________________________

16. Base Bid for Work Scope No. 14.20D Title Elevator
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________

17. Base Bid for Work Scope No. 21.10D Title Fire Suppression System
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________

18. Base Bid for Work Scope No. 22.10D Title Mechanical Systems
   Bid Amount: __________________________________ $ _____________
   a. Cost Breakdown No. 1: Skywalk
      Breakdown Amount: __________________________________ $ _____________

Bid Amount: _______________________________ $ __________

a. Cost Breakdown No. 1: Skywalk

Breakdown Amount: _______________________________ $ __________

b. Cost Breakdown No. 2: Exterior Wayfinding Signage

Breakdown Amount: _______________________________ $ __________

Combined Base Bid:

Work Scope Numbers and Titles on which Combined Bid is based:

<table>
<thead>
<tr>
<th>Work Scope No.</th>
<th>Title:</th>
<th>Work Scope No.</th>
<th>Title:</th>
<th>Work Scope No.</th>
<th>Title:</th>
<th>Work Scope No.</th>
<th>Title:</th>
<th>Work Scope No.</th>
<th>Title:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Combined Bid Amount: _______________________________ $ __________

Alternates:

Refer to Section 01 23 00 for complete description of Alternates.

ADD

Alternate No. 1A to Work Scope 8.40D $ __________
Alternate No. 1B to Work Scope 26.10D $ __________
Alternate No. 2 to Work Scope 3.40D $ __________
Alternate No. 3A to Work Scope 9.60D $ __________
Alternate No. 3B to Work Scope 9.65D $ __________
Alternate No. 4 to Work Scope 26.10D $ __________
Alternate No. 5 to Work Scope 26.10D $ __________
ADD

Alternate No.  6  to Work Scope  26.10D  $_________
Alternate No.  7  to Work Scope  26.10D  $_________
Alternate No.  8  to Work Scope  26.10D  $_________
Alternate No.  9  to Work Scope  26.10D  $_________
Alternate No.  10A  to Work Scope  3.40D  $_________
Alternate No.  10B  to Work Scope  5.10D  $_________
Alternate No.  10C  to Work Scope  7.10D  $_________
Alternate No.  11A  to Work Scope  5.10D  $_________
Alternate No.  11B  to Work Scope  7.10D  $_________
Alternate No.  12A  to Work Scope  7.10D  $_________
Alternate No.  12B  to Work Scope  7.10D  $_________

Addenda: Receipt of the following Addenda to the Contract Documents and their costs being incorporated into the Bid is acknowledged (provide Addenda numbers below):

<table>
<thead>
<tr>
<th>Addenda No.</th>
<th>Dated</th>
<th>Addenda No.</th>
<th>Dated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bid Acceptance: If written notice of the acceptance of this Bid is received by the undersigned within 60 days after date set for opening of this Bid, or at any other time thereafter before Bid is withdrawn, the undersigned agrees to enter into and execute a Contract with the Owner in accordance with this Bid as accepted and in a form acceptable to Owner, and to furnish and deliver to the Construction Manager the Performance Bond, Payment Bond, and proof of insurance coverage, all within 10 days after notice of acceptance of this Bid.
Execution of Proposal: The entity(ies) signing this proposal is fully authorized to sign on behalf of the named firm and to fully bind the named firm to all of the conditions and provisions of the Contract. This proposal shall remain valid and not be withdrawn for 60 calendar days after bid due date.

Submitted this ________________ day of ____________________, 20 ______.
Name of Firm: __________________________________________________________
Street Address: _________________________________________________________
City: ____________________________ State: __________ Zip: ________________
Phone Number: __________________ Fax Number: ________________________

Bidder is: (check one)
☐ Individual ☐ Partnership ☐ Corporation

If Bidder is a corporation, give legal name of corporation, state where incorporated, and names of president and secretary. If a partnership, give names of all individual co-partners composing the firm. If an individual, give first and last name in full.
________________________________________________________
________________________________________________________
________________________________________________________

Name (typed or printed): ____________________________________________
Signature: __________________________________________________________
Title: ______________________________________________________________

END OF DOCUMENT
# Duluth International Airport

**Pre-Bid Meeting Sign-In Sheet**

"Duluth International Airport – New Parking Structure and Exterior Wayfinding Signage"

"Bid Package 2D"

Third Floor Conference Room – Existing Passenger Building – Duluth International Airport

May 29, 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
<th>Phone Number</th>
<th>Fax Number</th>
<th>E-Mail Address</th>
<th>Bidding Work Scope(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>John E. Hippchen</td>
<td>RS&amp;H</td>
<td>4525 Airport Approach Rd</td>
<td>218-722-1227</td>
<td>218-722-1052</td>
<td><a href="mailto:john.hippchen@rsandh.com">john.hippchen@rsandh.com</a></td>
<td>10.20D</td>
</tr>
<tr>
<td>Darren Olsen</td>
<td>Summit Signs</td>
<td>5051 Miller Trunk</td>
<td>218-722-1052</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rusty Marshall</td>
<td>Summit Signs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mike Holmberg</td>
<td>Gorman Dew Mech</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chris Thacker</td>
<td>Leberco's Union #1091</td>
<td></td>
<td>218-428-7876</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Troy Westendorf</td>
<td>Red Rock Flint Inc</td>
<td>700 Enterprise Cir</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rod Johnson</td>
<td>Johnson Controls</td>
<td>11571 bumper Dr Mountainview</td>
<td>952-390-6732</td>
<td>870-5531</td>
<td><a href="mailto:rod.johnson@johncolton.com">rod.johnson@johncolton.com</a></td>
<td>Div 3</td>
</tr>
<tr>
<td>Drew Johnson</td>
<td>St. Germainy Glass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paul Zupke</td>
<td>Aukland Roof</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jim Horn</td>
<td>Veit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Company</td>
<td>Address</td>
<td>Phone Number</td>
<td>Fax Number</td>
<td>E-Mail Address</td>
<td>Bidding Work Scope(s)</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
<td>-----------------------</td>
<td>--------------</td>
<td>------------</td>
<td>----------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Essay</td>
<td>Erie Gtwney</td>
<td>600 Syc. Blvd./ 5th St.</td>
<td>218-625-3456</td>
<td>218-625-7266</td>
<td><a href="mailto:Essay@eriegateway.com">Essay@eriegateway.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike St. Gyr</td>
<td>Hunt Electric</td>
<td>4330 West 4th Street</td>
<td>218-624-6305</td>
<td></td>
<td><a href="mailto:Mst.Gyr@huntelec.com">Mst.Gyr@huntelec.com</a></td>
<td></td>
</tr>
<tr>
<td>Bill Cox</td>
<td>Leveens 1021</td>
<td>2002 London Rd.</td>
<td>218-728-5151</td>
<td></td>
<td>Bill1021@coleumn</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Company</td>
<td>Address</td>
<td>Phone Number</td>
<td>Fax Number</td>
<td>E-Mail Address</td>
<td>Bidding Work Scope(s)</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------</td>
<td>-------------</td>
<td>--------------------</td>
<td>--------------</td>
<td>----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Greg Peterson</td>
<td>HMI</td>
<td>80 Box 16212 Duluth 55801</td>
<td>218-722-2181</td>
<td>218-722-2191</td>
<td><a href="mailto:greg@hmd.us">greg@hmd.us</a></td>
<td>concrete</td>
</tr>
<tr>
<td>Jeff Widness</td>
<td>HMI</td>
<td></td>
<td>218 743 8299</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kim Schlaes</td>
<td>Summit Fire</td>
<td>4208 Enterprise Ctr 218-740-4412</td>
<td>218-740</td>
<td></td>
<td><a href="mailto:KSchlaes@summitfire.com">KSchlaes@summitfire.com</a></td>
<td>$21</td>
</tr>
<tr>
<td>Andrew E. Hanson</td>
<td>Sign Source</td>
<td>7660 Quatra Dr, Champlausen 763-228-9954</td>
<td>952-908-7102</td>
<td></td>
<td>andrewesign-source.com</td>
<td>10/450</td>
</tr>
</tbody>
</table>
## Duluth International Airport

**PRE-BID MEETING SIGN-IN SHEET**

"Duluth International Airport – New Parking Structure and Exterior Wayfinding Signage"

"Bid Package 2D"

**Third Floor Conference Room – Existing Passenger Building – Duluth International Airport**

**May 29, 2013**

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
<th>Phone Number</th>
<th>Fax Number</th>
<th>E-Mail Address</th>
<th>Bidding Work Scope(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HealthLine</td>
<td>KGM</td>
<td>9211 West Ave, MN</td>
<td>(218) 666-5688</td>
<td>(218) 666-5708</td>
<td><a href="mailto:health@kgm-intl.com">health@kgm-intl.com</a></td>
<td>Civil</td>
</tr>
<tr>
<td>33</td>
<td>Lamonton</td>
<td>Schroeder Elevators</td>
<td>(651) 406-5300</td>
<td>(651) 406-5321</td>
<td><a href="mailto:rkoertb@schroeder.com">rkoertb@schroeder.com</a></td>
<td>Elevator</td>
</tr>
<tr>
<td>34</td>
<td>Steve Olson</td>
<td>Hanson Precast</td>
<td>763-496-6288</td>
<td>763-495-1277</td>
<td><a href="mailto:steve.olson@hanson.com">steve.olson@hanson.com</a></td>
<td>Precast</td>
</tr>
<tr>
<td>35</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Hanson Precast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Company</td>
<td>Address</td>
<td>Phone Number</td>
<td>Fax Number</td>
<td>E-Mail Address</td>
<td>Bidding Work Scope(s)</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td>------------------------------</td>
<td>--------------</td>
<td>------------</td>
<td>----------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Craig Bursch</td>
<td>MBJ</td>
<td>501 LAKE AVE SOUTH</td>
<td>218-722-1056</td>
<td>218-722-9306</td>
<td><a href="mailto:CBURSCH@MBJENG.COM">CBURSCH@MBJENG.COM</a></td>
<td>No.</td>
</tr>
<tr>
<td>Chad Stolp</td>
<td>Janson</td>
<td>4701 Monte Carlo Dr</td>
<td>952-433-0750</td>
<td>763-697-1022</td>
<td><a href="mailto:CHADSTOLP@JONATHAN.COM">CHADSTOLP@JONATHAN.COM</a></td>
<td>No.</td>
</tr>
<tr>
<td>John Matulski</td>
<td>Lakehead Sign</td>
<td>1000 29551</td>
<td>218-879-3772</td>
<td>218-879-3772</td>
<td><a href="mailto:john@lakeheadsign.com">john@lakeheadsign.com</a></td>
<td>10:20 AM</td>
</tr>
<tr>
<td>Name</td>
<td>Company</td>
<td>Address</td>
<td>Phone Number</td>
<td>Fax Number</td>
<td>E-Mail Address</td>
<td>Bidding Work Scope(s)</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------</td>
<td>--------------------------</td>
<td>--------------</td>
<td>------------</td>
<td>----------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>David Nelson</td>
<td>Ulland</td>
<td>9230 3rd Ave S, Duluth, MN 55720</td>
<td>218-383-9700</td>
<td>383-9700</td>
<td><a href="mailto:duluth@uckland.com">duluth@uckland.com</a></td>
<td></td>
</tr>
<tr>
<td>Rick Ostergaard</td>
<td>Wells Concrete</td>
<td>623 W. Lilac Dr, Duluth, MN 55802</td>
<td>612-756-4662</td>
<td>763-544-0642</td>
<td><a href="mailto:rick.ostergaard@wellsconcrete.com">rick.ostergaard@wellsconcrete.com</a></td>
<td>PRECAST</td>
</tr>
</tbody>
</table>

55

56

57

58

59

60

61

62
<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
<th>Phone Number</th>
<th>Fax Number</th>
<th>E-Mail Address</th>
<th>Bidding Work Scope(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>John E. Hippchen</td>
<td>RS&amp;H</td>
<td>4525 Airport Approach Rd Duluth MN 55811</td>
<td>218-722-1227</td>
<td>218-722-1052</td>
<td><a href="mailto:john.hippchen@rsandh.com">john.hippchen@rsandh.com</a></td>
<td>10.20D</td>
</tr>
<tr>
<td>John Venglarck</td>
<td>Hanson</td>
<td>7844 W Central Ave Dub 011, 03x71</td>
<td>414.410.335</td>
<td>414.871.760</td>
<td><a href="mailto:John.Venglarck@ahcom.com">John.Venglarck@ahcom.com</a></td>
<td>10.20D</td>
</tr>
</tbody>
</table>
Pre-Bid Meeting Agenda  
May 29, 2013 @ 2:00 p.m.  
Duluth International Airport  
New Parking Structure and Exterior Wayfinding Signage BP-2D

Attendance Sheet

1. Everyone must sign the attendance sheet. Make sure to write clearly and write down what Work Scope(s) you are bidding along with your contact information.

Project Team

1. Owner – Duluth Airport Authority:
   a. Tom Werner – Executive Director.
   b. Blaine Peterson – Operations Director.
   c. Ryan Welch – Airport Facilities Manager.
2. Design Team:
   c. Brian Morse – Senior Registered Architect – TKDA Architects.
3. Construction Manager – Kraus-Anderson Construction Company:
   a. Mike Dosan – Sr. Project Manager.
   b. Andy Towner – Project Manager.
   c. Steve Bergerson – Project Superintendent.
   d. Kim Lofquist – Project Assistant.

Project Description

1. The bidding is for BP-2D New Parking Structure and Exterior Wayfinding Signage. This project is a New project, completely separate from the Terminal project.
2. The parking structure is a four-story structure consisting of cast-in-place below grade footings, foundations, and slab; and, three levels of precast walls and planks above grade. There are two circulation towers with an elevator in the Northeast tower. The DAA maintenance area will be enclosed and tempered. All other areas are open air.
3. The skywalk will connect the parking structure to the second floor mezzanine of the existing terminal. This work is not scheduled to start until June of 2014.
4. The signage package consists of both interior signage and exterior wayfinding signage.

Work Scope Overview

1. There is a total of 19 Work Scopes for bidders to submit their bids on.
2. See Specification section 01 01 40 for Work Scope Descriptions and Work Scope Index for quick reference as to the Specification sections you will be responsible for bidding.
3. Review Work Scopes from PowerPoint to better inform bidders.
Bidding Requirements

1. Bid Form Packet – Sent after last Addendum has been issued:
   a. Affidavit of Non-Collusion.
   b. EEO Certificate.
   c. DBE Utilization Form.
   e. Bid Form.
2. Bid Due Date – June 11, 2013 @ 2:00 p.m. at the City of Duluth Purchasing.
3. This project has a Project Labor Agreement that will be signed after award.

Schedule

1. See Civil Plans for civil and utility demolition phasing.
2. Parking Structure Milestone Schedule:
   b. Concrete footings and foundations complete by September 30, 2013.
   c. Precast construction complete by December 27, 2013.
   d. Parking structure substantial completion by March 14, 2013.
   e. Parking structure final completion by April 18, 2013.
3. All work associated with the Skywalk will not start until June of 2014.

Other Issues

1. Safety.
3. Coordination with Owner, Architect, Engineers, and Construction Manager.
4. Issuing of Final Addendums – Addendum #1 already issued, Addendum #2 Friday, May 31, 2013. Addendum #3 by Friday, June 7, 2013.
5. All questions are due to Kim Lofquist, @kim.lofquist@krausanderson.com, by 5PM on June 5th. Answers will be issued with the final addendum.
6. DAA Items – Blaine and Ryan

Questions & Closing Comments

1. Bidder questions.
2. Additional site visits – coordinate with Construction Manager.
3. Tour of building – hard hats, vests, and safety glasses required.
Date: May 31, 2013

RE: City of Duluth Bid #13-4401
   New Parking Structure and
   Exterior Wayfinding Signage
   Bid Package 2D

Addendum No. 2

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 15, 2013. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

1.0 PROJECT MANUAL

1.1 Bid Form:

1.2 Table of Contents:

Volume 2 of 2 – Part 11 Division 03 Concrete: Delete Section 03 41 01 Precast Hollow Core Slab from Table of Contents.

Volume 2 of 2 – Part 11 Division 01 General Requirements: Add Section 01 23 00 Alternates to the table of contents.

1.3 Technical Specifications:

Volume 1 – Part 9 Special Provisions, SP 7.3 Salvage and Reinstall Gate Operator w/New Loops: Add the following text: Contractor shall also relocate and reconnect the existing communication conduit and wire to the gate arm at the new location. Additional conduit, communication wire and handholds will be incidental to the cost. (See attached drawing for reference).

Volume 1 – Part 11 Division 1-49 Technical Specifications, Division 1 – General Requirements: Add: Specification Section 01 23 00 Alternates in its entirety. (5 pages)

Volume 2 – Part 11 Division 1-49 Technical Specifications Division 03 Concrete: Delete Specification Section 03 41 01 Precast Hollow Core Slab in its entirety.

Volume 2 – Part 11 Division 1-49 Technical Specifications Division 03 Concrete: Revise Specification Section 03 45 00 Architectural Wall Panels: Delete Section 1.5.A, items 2, 3, and 4.

Volume 2 – Part 11 Division 1-49 Technical Specifications Division 03 Concrete: Section 03 41 00 Precast Structural Concrete: Section 1.2A1 add the following to read:

1. Precast structural concrete as indicated on drawings. Examples could include:
   (a) Solid and hollow core flat slabs
   (b) Single and double tees
   (c) Columns, beams and spandrels
   (d) Stairs and risers
   (e) Structural (non-architectural) solid or insulated flat wall panels
   (f) All other structural precast elements not specifically noted above
Volume 2 – Part 11 Division 1-49 Technical Specifications Division 09 Painting:

Revise Specification Section 09 91 00 Painting:

Add Section 1.1.A, item 4, to read:
4. Parking stall lines and markings.

Add Section 3.5.F, to read:

F. Parking Stall Lines and Markings:
1. 1 coat PPG Zoneline Traffic and Zone Marking Paint, Latex.
2. Follow manufacturers’ recommendations for surface cleaning/preparation and application.
3. Typical line markings to be 11-53 White.
4. No parking / access aisle markings to be 11-54 Yellow
5. Handicap symbols and line marking to be 11-55 Handicap Blue

2.0 DRAWINGS: Replace drawings listed below with sheets included with this Addendum No. 2

Structural Drawings: Replace (S-Series) in its entirety - 17 sheets.

Drawing A701:
Door Schedule: Remove Note 3 from Door 301

Replace original issue for bid drawings with sheets included with this addendum No. 2:

A104 Enlarged Skywalk Plans
A302 Enlarged Skywalk Elevation

E002 Luminaire Schedule and Notes
E010 Electrical Site Plan
E100 Lower Level Electrical Plan
E101 First Level Electrical Plan
E102 Second Level Electrical Plan
E103 Third Level Electrical Plan
E104 Skywalk Electrical Plan
E601 Electrical and Communication Riser Diagrams
E701 Electrical Panel Schedules

3.0 OTHER:

END OF ADDENDUM NO. 2
PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS
A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
A. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES
A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
A. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
C. Execute accepted alternates under the same conditions as other work of the Contract.
D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. **Alternate No. 1A**: Work Scope 8.40D

Replace aluminum-framed entrances as shown on A701 and specified in 08 41 13 with sliding automatic entrances as shown on A701 (remark note 3) and A703 and specified in 08 42 29.23 for the parking structure and skywalk.

Add the sum of: ________________ Dollars ($______).

B. **Alternate No. 1B**: Work Scope 26.10D

Provide and install automatic door operator circuit as required at all sliding automatic entrances. Refer to the door schedule on A701 (remark note 3), A703 details, and electrical plans for the extent of this alternate.

Add the sum of: ________________ Dollars ($______).

C. **Alternate No. 2**: Work Scope 3.40D

Provide an acid etch / sand blast with integral color finish as outlined in specification section 03 45 00 and shown on architectural plans in lieu of “As-Cast” panel finish.

Add the sum of: ________________ Dollars ($______).

D. **Alternate No. 3A**: Work Scope 9.60D

Replace linoleum flooring with thin set epoxy terrazzo floor in the skywalk to match existing terminal mezzanine terrazzo. Note: Terrazzo inside existing terminal (north of door 302C) is to be included in base bid.

Add the sum of: ________________ Dollars ($______).

E. **Alternate No. 3B**: Work Scope 9.65D

Replace linoleum flooring with thin set epoxy terrazzo floor in the skywalk to match existing terminal mezzanine terrazzo. Note: Terrazzo inside existing terminal (north of door 302C) is to be included in base bid.

Add the sum of: ________________ Dollars ($______).
F. **Alternate No. 4:** Work Scope 26.10D

Replace metal halide light fixtures in the Parking Structure with LED light fixtures as shown on the electrical plans.

Add the sum of: _______________ Dollars ($______).

G. **Alternate No. 5:** Work Scope 26.10D

Replace fluorescent light fixtures in the Skywalk with LED light fixtures as shown on the electrical plans.

Add the sum of: _______________ Dollars ($______).

H. **Alternate No. 6:** Work Scope 26.10D

Provide and install exterior light fixtures Type F1, wiring, and control wiring as shown on electrical plan and schematic control diagram.

Add the sum of: _______________ Dollars ($______).

I. **Alternate No. 7:** Work Scope 26.10D

Provide and install room 106 data outlets as shown on electrical plans wired to GCTC. Note: Underside of skywalk is pathway for comm, so work associated with skywalk construction will not be completed until the summer of 2014.

Add the sum of: _______________ Dollars ($______).

J. **Alternate No. 8:** Work Scope 26.10D

Provide and install 23 CCTV cameras as shown on electrical plan wired to GCTC using CAT6 wire in conduit. Provide CCTV 24 port POE switch with power supply, setup, licenses, and any software additions necessary for Terminal Video Management System. Note: Underside of skywalk is pathway for comm, so work associated with skywalk construction will not be completed until the summer of 2014.

Add the sum of: _______________ Dollars ($______).

K. **Alternate No. 9:** Work Scope 26.10D

Provide and install landscape light bollards as shown on electrical prints. Include all necessary wiring, excavation, concrete, and backfill work associated with the installation of the bollards as detailed on E150 and E002.

Add the sum of: _______________ Dollars ($______).
L. **Alternate No. 10A:** Work Scope 3.40D

Provide and install solid 10" precast panels with openings for mesh infill (by others) along grid line B instead of solid concrete panels with no openings. Reference A310 for opening detail. The panels on the north wall of DAA Parking 104 are not to receive openings as this space is tempered.

Add the sum of: ________________________ Dollars ($_______).

M. **Alternate No. 10B:** Work Scope 5.10D

Provide and install wire mesh infills along grid line B as shown on architectural plans and specified in section 05 75 12 “Wire Cloth”. The panels on the north wall of DAA Parking 104 are not to receive openings as this space is tempered. Note: This alternate is only for the wire mesh infill at grid line B. Reference Alternate No. 11 for wire mesh infill at exterior walls.

Add the sum of: ________________________ Dollars ($_______).

N. **Alternate No. 10C:** Work Scope 7.10D

Provide and install wire mesh infills along grid line B as shown on architectural plans and specified in section 05 75 12 “Wire Cloth”. The panels on the north wall of DAA Parking 104 are not to receive openings as this space is tempered. Note: This alternate is only for the wire mesh infill at grid line B. Reference Alternate No. 11 for wire mesh infill at exterior walls.

Add the sum of: ________________________ Dollars ($_______).

O. **Alternate No. 11A:** Work Scope 5.10D

Provide and install wire mesh infill at exterior wall panels as shown on architectural plans and specified in section 05 75 12 “Wire Cloth”. This alternate does not include wire mesh at grid line B.

Add the sum of: ________________________ Dollars ($_______).

P. **Alternate No. 11B:** Work Scope 7.10D

Provide and install wire mesh infill at exterior wall panels as shown on architectural plans and specified in section 05 75 12 “Wire Cloth”. This alternate does not include wire mesh at grid line B.

Add the sum of: ________________________ Dollars ($_______).
Q. **Alternate No. 12A:** Work Scope 5.10D

Provide and install Louvered Screen System as shown on A522 and specified in section 05 50 00 “Metal Fabrications”. Include coordination with roofing contractor for base plate installation.

Add the sum of: ________________ Dollars ($______).

R. **Alternate No. 12B:** Work Scope 7.10D

Provide and install Louvered Screen System as shown on A522 and specified in section 05 50 00 “Metal Fabrications”.

Add the sum of: ________________ Dollars ($______).

END OF SECTION 01 23 00
Comply with MNL-116 and/or MNL-117 of the Precast Concrete Institute, ACI-318, and "Recommendations for Concrete Structures for Fire Protection." The contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the project.

The threaded anchor rod for adhesive anchors in concrete shall be ASTM A193, Grade B7. Reinforcement for steel connections in precast shall be certified in accordance with AWS D1.1. Refer to Architectural drawings for fire rating requirements. All members, planks and beams, shall be designed for unrestrained horizontal movement.

Holes shall be drilled with a bit and cleaned using a method that complies with the manufacturer's guidelines, and specifications. Do not cut or damage reinforcing steel or P-T tendons. The control or construction joints shall be placed as shown on the drawings. The joints shall be spaced at 12'-0" on center each way. Vertical reinforcing shall be held in place by rebar positioners, crossties, chairs, or tying to every other layer of horizontal reinforcing.

Vehicle Impact at 18" AFF: 6000 lbsParking Concentrated Load: 2000 lbs

Foundations:

All topsoil, fill, organic swamp deposits, and/or other unsuitable bearing material shall be removed below the footings and/or within the building area to the depths indicated in the geotechnical engineering report and extent of removal shall be field verified by the Geotechnical Engineer. The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Reinforcing Steel in Concrete." Calcium chloride is not permitted as a concrete additive. Concrete Cover on reinforcing: Topping slab: 3/4" clear top. Joists: 1" clear top. Footings: 4,000 psi. Concrete for Underpinning: 3,000 psi. Piers, Walls, Slabs and Beams: Grade 4,000 psi. Exterior Concrete: 4,000 psi. Masonry Corefill Concrete: 3,000 psi. All Concrete not otherwise noted: 4,000 psi.

Foundation walls, pilasters, and columns shall be cast or precast in accordance with the American Concrete Institute's "Building Code Requirements for Reinforced Concrete" and "Standard Specifications for Reinforced Concrete." Minimum concrete cover shall be as follows: Rebars in Grade 40 reinforced concrete: 3/4" clear. Rebars in Grade 60: 1" clear. Rebars in Grade 80: 1 1/4" clear. Rebars in Grade 100: 1 1/2" clear. Pouring joints shall be made of solid concrete masonry unit material: 8" minimum length along wall. Calcium chloride is not permitted as a concrete additive. Concrete Cover on reinforcing: Topping slab: 3/4" clear top. Joists: 1" clear top. Footings: 4,000 psi. Concrete for Underpinning: 3,000 psi. Piers, Walls, Slabs and Beams: Grade 4,000 psi. Exterior Concrete: 4,000 psi. Masonry Corefill Concrete: 3,000 psi. All Concrete not otherwise noted: 4,000 psi.

Certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
certain_cache
UNIFORM LOAD DISTRIBUTION SCHEDULE

<table>
<thead>
<tr>
<th>LOAD</th>
<th>LIVE LOAD (PSF)</th>
<th>SUPERIMPOSED DEAD LOAD (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES:

1. ALL LOADS INDICATED ON LOAD MAP PLAN AND SCHEDULE ARE WORKING (UNFACTORED) LOADS.
2. REFER TO GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR P/C DESIGN REQUIREMENTS. P/C SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL P/C ELEMENTS AND CONNECTIONS FOR PERPENDICULAR AND IN-PLANE LOADING. REFER TO PLANS AND ... INDIVIDUAL COMPONENTS SHALL BE DESIGNED ACCORDING TO ASCE-7 AND THE IBC AS REQUIRED BASED ON TRIBUTARY AREA AND LOCATION.
THIRD LEVEL - LOAD MAP

UNIFORMLY DISTRIBUTED LOAD MAP SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>LIVE LOAD (PSF)</th>
<th>SUPERIMPOSED DEAD LOAD (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>

NOTE:
1. ALL LOADS INDICATED ON LOAD MAP PLAN AND SCHEDULE ARE WORKING (UNFACTORED) LOADS.
2. REFER TO GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR P/C DESIGN REQUIREMENTS. P/C SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL P/C ELEMENTS AND CONNECTIONS FOR PERPENDICULAR AND IN-PLANE LOADING. REFER TO PLANS AND ... INDIVIDUAL COMPONENTS SHALL BE DESIGNED ACCORDING TO ASCE-7 AND THE IBC AS REQUIRED BASED ON TRIBUTARY AREA AND LOCATION.

THIRD LEVEL LOAD MAP

S103A

ISSUED FOR BID

11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

SJL
MDN / PAJ

PAJ

Landscape Architects:

ARCHITECTURAL RESOURCES
126 East Superior Street, Duluth MN 55802
TEL: (218) 727-8481 / FAX: (218) 727-8483

Structural Engineers:

MEYER BORGMAN JOHNSON
501 Lake Avenue South, Suite 300, Duluth MN 55802
TEL: (218) 722-1056 / FAX: (218) 722-9306

MTEK ARCHITECTS
11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

Laws vary by the state, specifications may vary per project, contact your local office or architect for specific requirements.

Print Name: Paul A. Johnson
Signature:
Date: 09/03/13

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.

Reg. No.: 05-15-13

Reynolds, Smith and Hills, Inc.
4525 Airport Approach Rd, Ste A
Duluth, Minnesota 55811
218-722-1227  FAX 218-722-1052
www.rsandh.com

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

THIRD LEVEL - LOAD MAP

3/32" = 1'-0"
CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

<table>
<thead>
<tr>
<th>Bar Size</th>
<th>6&quot; CMU</th>
<th>8&quot; CMU</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>22&quot;</td>
<td>30&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>26&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
<td>22&quot;</td>
<td>30&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>22&quot;</td>
<td>30&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>30&quot;</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

NOTES:
1. CMU REINFORCING BAR LAP SPLICE SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN ASTM C 90 HOLLOW UNITS.
2. BAR SIZE IS DETERMINED BY THE THICKNESS OF CMU OR THE THICKNESS OF CMU LINTELS AND THE MINIMUM REINFORCEMENT REQUIREMENTS OF THE CODE.
3. CMU REINFORCING BARS MAY BE LAPPED AT JOINTS IN THE CMU AND AT THE END OF WALLS.
4. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
5. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
6. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.

CAST IN PLACE AND PRECAST COLUMN SCHEDULE

<table>
<thead>
<tr>
<th>Column Size</th>
<th>B1.0</th>
<th>B2.0</th>
<th>B3.0</th>
<th>B4.0</th>
<th>B5.0</th>
<th>B6.0</th>
<th>B7.0</th>
<th>B8.0</th>
<th>B9.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1.0</td>
<td>16 x 16 P/C W/ HAUNCHES (IT BEAM AND DT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.0</td>
<td>16 x 24 P/C W/ HAUNCHES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B4.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B5.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B6.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B7.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B8.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B9.0</td>
<td>27 x 27 CIP COL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
1. CMU WALL REINFORCING SCHEDULE
2. CMU WALL REINFORCING SCHEDULE
3. CMU WALL REINFORCING SCHEDULE
4. CMU WALL REINFORCING SCHEDULE
5. CMU WALL REINFORCING SCHEDULE
6. CMU WALL REINFORCING SCHEDULE
7. CMU WALL REINFORCING SCHEDULE
8. CMU WALL REINFORCING SCHEDULE

TYPICAL CMU WALL REINFORCING PLAN DETAILS

BEAM SHEAR CONNECTION SCHEDULE

<table>
<thead>
<tr>
<th>Beam Size</th>
<th>Minimum Design Shear Force (kips)</th>
<th>Minimum Design Shear Force (kips)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>3&quot;</td>
<td>150</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>4&quot;</td>
<td>200</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>5&quot;</td>
<td>250</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>6&quot;</td>
<td>300</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
1. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.
2. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.
3. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.
4. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.
5. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.
6. BEAM SHEAR CONNECTION SCHEDULE APPLIES TO W2 HSS COL.

TYPICAL CMU WALL REINFORCING SCHEMATIC

BASE PLATE DETAIL

REINFORCING BAR LAP SPLICE SCHEDULE

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>1&quot;</th>
<th>2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>5&quot;</th>
<th>6&quot;</th>
<th>8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>26</td>
</tr>
<tr>
<td>3</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>4</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>5</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>30</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>22</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>30</td>
<td>32</td>
<td>34</td>
</tr>
</tbody>
</table>

NOTES:
1. SCHEDULED VERT WALL REINF SIZE.
2. CONTROL JOINT LOCATIONS AT NON-LOAD BEARING WALLS.
3. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
4. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
5. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
6. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
7. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
8. CMU REINFORCING BARS IN CMU LINTELS SHALL BE TYPED.
SEE PLAN FOR FOOTING STEP LOCATIONS.
SEE TYPICAL WALL FOOTING STEP DETAIL FOR ADDITIONAL INFORMATION.

6"
3" RIGID INSULATION
AT FOOTINGS BELOW CMU WALLS, COORDINATE WALL FOOTING STEP LOCATIONS WITH CMU COURSING.

SUPPORT ANGLE AND "S" SHALL NOT EXCEED 16" FOR CMU WALLS OR 24" FOR CAST-IN-PLACE OR PRECAST CONCRETE WALLS.

MAXIMUM SPACING OF CONTROL JOINTS IS 20 FT ON CENTER OR 1 1/2 TIMES THE WALL THICKENED SLAB SHALL BE CENTERED ON CMU WALL LOCATIONS, UNLESS NOTED OTHERWISE.

DOWELS TO MATCH WALL REINF SIZE AND LOCATION - WALL - SEE ARCH DRILL AND EPOXY TO SLAB MIN 6" EMBED

CONCRETE COLUMN ISOLATION JOINT - DIAMOND Reynolds, Smith and Hills, Inc.

SEE PLAN AND ADDITIONAL 2 - #5 CONT SLAB ON GRADE - SEE PLAN

AND SCHEDULE www.rsandh.com

TFE - SEE PLAN BOND BREAKER MATERIAL

NOTES:
1. PROVIDE JOINT LOCATIONS FOR APPROVAL. IS NOT BOUND BOUNDARIES.
2. PROVIDE LAP SPLICE Width 12" OC HORIZ.
3. PROVIDE LAP SPLICE MAX 2" CLR AT UNION OF EACH REINFORCING MATERIAL.
4. PROVIDE FOR BASE IS SLIPPED SUITABLE THAT SUITABLE GROUT.

3" CLR

1'-0" UNO

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE CHAIRS FOR SUPPORT OF REINFORCING.
2. AT EXTERIOR SLAB ON GRADE LOCATIONS, VAPOR BARRIER IS NOT REQUIRED. 3. PROVIDE DIAMOND SHAPED LOAD PLATE COMPLIANT WITH ACI 302.1 R.

3" CLR

2" CLR AT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL COLUMN ISOLATION JOINT

TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL

TYPICAL WALL FOOTING STEP

TYPICAL STEPPED WALL FOOTING AT UTILITIES

TYPICAL CORNER BAR PLACING DETAIL

TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS

SECTION THRU ELEVATOR PIT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL STOOP DETAIL

TYPICAL STOOP AND STAIR ON GRADE DETAIL

TYPICAL SLAB ON GRADE CONSTRUCTION

REVISIONS

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE JOINT LOCATIONS FOR APPROVAL. IS NOT BOUND BOUNDARIES.
2. PROVIDE LAP SPLICE Width 12" OC HORIZ.
3. PROVIDE LAP SPLICE MAX 2" CLR AT UNION OF EACH REINFORCING MATERIAL.
4. PROVIDE FOR BASE IS SLIPPED SUITABLE THAT SUITABLE GROUT.

3" CLR

1'-0" UNO

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE CHAIRS FOR SUPPORT OF REINFORCING.
2. AT EXTERIOR SLAB ON GRADE LOCATIONS, VAPOR BARRIER IS NOT REQUIRED. 3. PROVIDE DIAMOND SHAPED LOAD PLATE COMPLIANT WITH ACI 302.1 R.

3" CLR

2" CLR AT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL COLUMN ISOLATION JOINT

TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL

TYPICAL WALL FOOTING STEP

TYPICAL STEPPED WALL FOOTING AT UTILITIES

TYPICAL CORNER BAR PLACING DETAIL

TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS

SECTION THRU ELEVATOR PIT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL STOOP DETAIL

TYPICAL STOOP AND STAIR ON GRADE DETAIL

TYPICAL SLAB ON GRADE CONSTRUCTION

REVISIONS

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE JOINT LOCATIONS FOR APPROVAL. IS NOT BOUND BOUNDARIES.
2. PROVIDE LAP SPLICE Width 12" OC HORIZ.
3. PROVIDE LAP SPLICE MAX 2" CLR AT UNION OF EACH REINFORCING MATERIAL.
4. PROVIDE FOR BASE IS SLIPPED SUITABLE THAT SUITABLE GROUT.

3" CLR

1'-0" UNO

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE CHAIRS FOR SUPPORT OF REINFORCING.
2. AT EXTERIOR SLAB ON GRADE LOCATIONS, VAPOR BARRIER IS NOT REQUIRED. 3. PROVIDE DIAMOND SHAPED LOAD PLATE COMPLIANT WITH ACI 302.1 R.

3" CLR

2" CLR AT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL COLUMN ISOLATION JOINT

TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL

TYPICAL WALL FOOTING STEP

TYPICAL STEPPED WALL FOOTING AT UTILITIES

TYPICAL CORNER BAR PLACING DETAIL

TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS

SECTION THRU ELEVATOR PIT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL STOOP DETAIL

TYPICAL STOOP AND STAIR ON GRADE DETAIL

TYPICAL SLAB ON GRADE CONSTRUCTION

REVISIONS

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE JOINT LOCATIONS FOR APPROVAL. IS NOT BOUND BOUNDARIES.
2. PROVIDE LAP SPLICE Width 12" OC HORIZ.
3. PROVIDE LAP SPLICE MAX 2" CLR AT UNION OF EACH REINFORCING MATERIAL.
4. PROVIDE FOR BASE IS SLIPPED SUITABLE THAT SUITABLE GROUT.

3" CLR

1'-0" UNO

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN
NEW PARKING STRUCTURE AND EXTERIOR WAYFINDING SIGNAGE

TKDA ARCHITECTS
126 East Superior Street, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

1. PROVIDE CHAIRS FOR SUPPORT OF REINFORCING.
2. AT EXTERIOR SLAB ON GRADE LOCATIONS, VAPOR BARRIER IS NOT REQUIRED. 3. PROVIDE DIAMOND SHAPED LOAD PLATE COMPLIANT WITH ACI 302.1 R.

3" CLR

2" CLR AT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL COLUMN ISOLATION JOINT

TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL

TYPICAL WALL FOOTING STEP

TYPICAL STEPPED WALL FOOTING AT UTILITIES

TYPICAL CORNER BAR PLACING DETAIL

TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS

SECTION THRU ELEVATOR PIT

TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING

TYPICAL STOOP DETAIL

TYPICAL STOOP AND STAIR ON GRADE DETAIL

TYPICAL SLAB ON GRADE CONSTRUCTION

REVISIONS
### Limiting Control, Operation Schedule and Notes

#### Limiting Control, Operation Schedule

- **Location:** [Insert Location]
- **Date:** [Insert Date]
- **Schedule:** [Insert Schedule]

#### Notes

- **Project:** [Insert Project]
- **Contractor:** [Insert Contractor]
- **Engineer:** [Insert Engineer]
- **Owner:** [Insert Owner]

#### Diagram

- **Diagram Reference:** [Insert Reference]
- **Diagram Scale:** [Insert Scale]
- **Diagram Information:** [Insert Information]

---

### Limiting Control, Operation Schedule

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Limiting Control</th>
<th>Operations Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Notes

- **Notes:** [Insert Notes]
- **References:** [Insert References]
- **Drawings:** [Insert Drawings]

---

### Diagram

- **Diagram Elements:** [Insert Elements]
- **Diagram Sections:** [Insert Sections]
- **Diagram Legends:** [Insert Legends]

---

### Additional Information

- **Additional Notes:** [Insert Notes]
- **Contact Information:** [Insert Contact]
- **Contract Information:** [Insert Contract]