

TECHNICAL SPECIFICATIONS

FOR

DTA Facility Hoist Replacement (1-5)

March 23, 2009

The DTA will be replacing from one to five Hoists due to long term corrosion.

One hoist will be awarded on April 29th, 2009. The remaining hoists will be awarded no later than July of this year. That date is dependant on Federal concurrence. Only two hoists can be under construction at any one time. Scheduling to be approved by James Brown, Maintenance Director. H hoist rear will be first and A , E, F, and M, rear will follow.

Contractor shall provide all labor and material to replace bus floor lifts as specified herein and as directed by DTA and architect.

Cut floor as shown and as instructed by Architect.

New lift shall be Rotary, Model 70C or equal as approved by DTA.

Contractor shall consider the specifications of the lift manufacturer to be a part of these specifications.

The DTA is built on pilings and each lift is on a cap for a piling. If the contractor cuts floor slab in excess of six (6) inches or cuts #7 steel mat at the bottom of the slab, the contractor shall assume all costs to repair the structural slab as directed by the Architect/Engineer appointed by the DTA.

New #6 vertical dowel reinforcement shall be placed drilled hole with epoxy@12" O.C. top of 9.5" of embedment into unexcavated concrete use epoxy coated reinforcement.

Contractor shall add fiberglass tube around cylinder to reduce rust.

Contractor shall patch back all concrete floor slab with 4,000 psi concrete at 28 days.

Verify all dimensions in field prior to start of work. Verify schedule for lift replacements with DTA staff. The lifts to be replaced are H, A, E, F, and M.

Contractor shall maintain all existing reinforcement exposed during excavation of concrete. Do not cut any of this material.

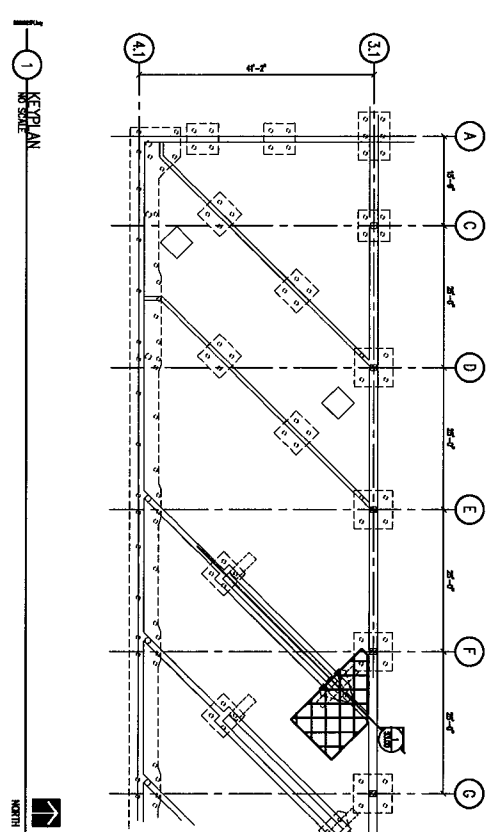
Additional instructions are detailed on drawings S1.00, s2.00, and S3.00.

GENERAL NOTES AND CONSTRUCTION NOTES

- A. **REINFORCING**
 1. 2005 MINNESOTA STATE REINFORCING CODE (MSRC)
 2. 2005 INTERNATIONAL REINFORCING CODE (IRC)
- B. **CONCRETE**
 1. 28-DAY COMPRESSIVE STRENGTH: 4000 PSI (CONCRETE) (40)
- C. **FORMING AND SHORING**
 1. ALL CONCRETE SHALL BE CAST AGAINST FORMWORK. FORMWORK SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE CONCRETE AND THE WEIGHT OF THE FORMWORK ITSELF. FORMWORK SHALL BE DESIGNED TO WITHSTAND THE WEIGHT OF THE CONCRETE AND THE WEIGHT OF THE FORMWORK ITSELF. FORMWORK SHALL BE DESIGNED TO WITHSTAND THE WEIGHT OF THE CONCRETE AND THE WEIGHT OF THE FORMWORK ITSELF.
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DETAILS AND NOTES

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21 W. Superior Street
 Duluth, MN 55802
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 FAX 218/727-8155
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TLBR
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**DULUTH
 TRANSIT
 AUTHORITY**
 2402 W. MICHIGAN ST.
 DULUTH, MN

PROJECT: **BUS LIFT REPLACEMENT**
 DRAWING TITLE: **GENERAL NOTES & DETAILS**
 DATE: 10/10/12
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO: [Number]

\$1.00

21 W. Superior Street
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 2402 W. MICHIGAN ST.
 DULUTH, MN

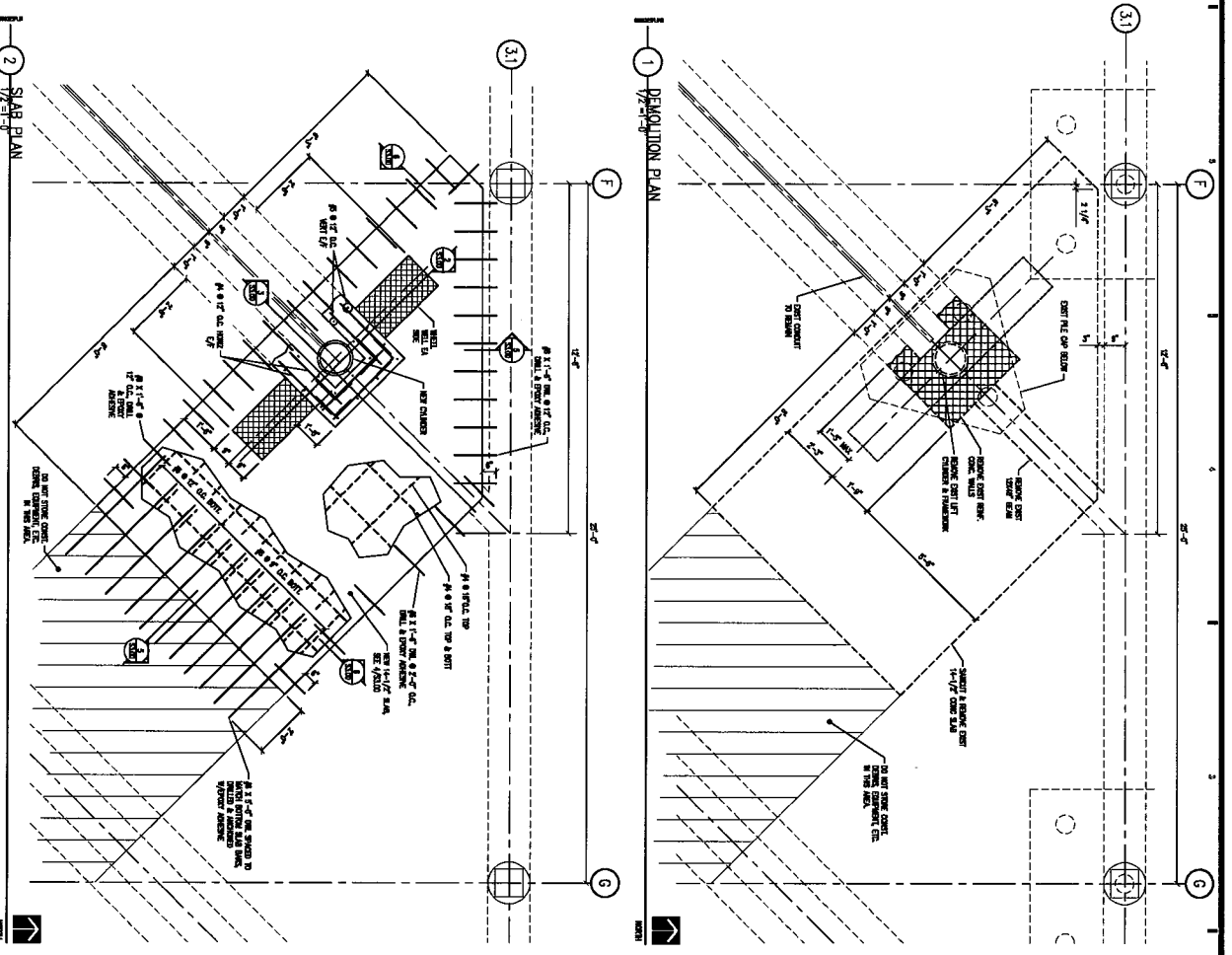
NO. 17000
 DATE 08/20/2007

1. I HEREBY CERTIFY that the person specified in this document is the duly qualified and duly Licensed Professional Engineer under the laws of the State of Minnesota.
 THIRD OR REVISED HUNDRED AND SEVENTEEN THOUSAND AND NO/100ths
 DATE 8/20/07
 REG. NO. 22292
 CONTRACT NUMBER: 07-01-0000000000

PROJECT NAME
**BUS LIFT
 REPLACEMENT**

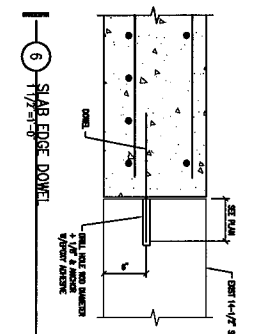
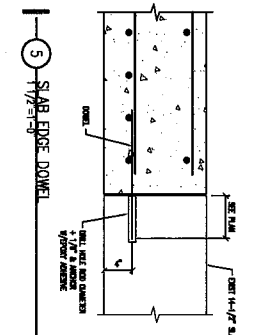
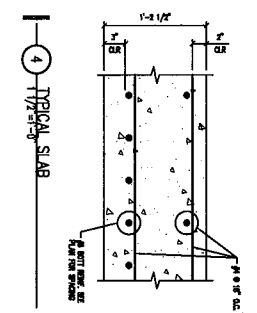
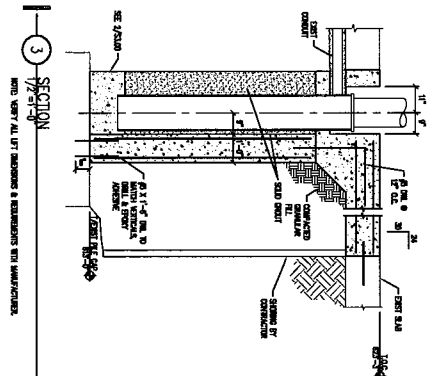
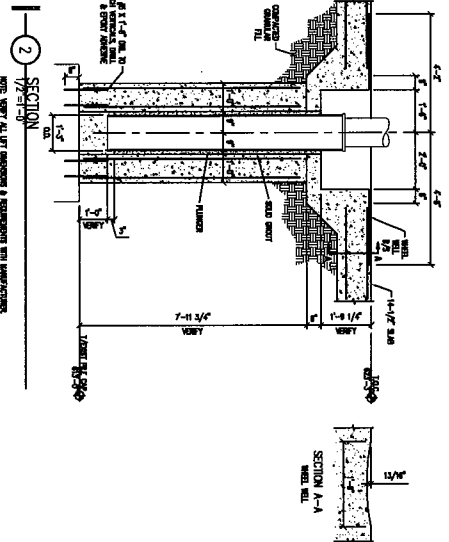
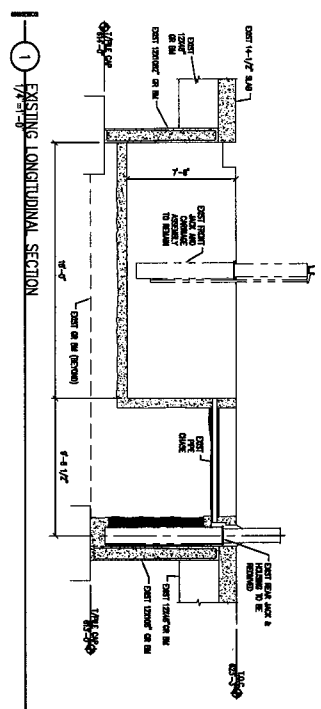
DRAWING TITLE
**SLAB
 PLANS**

DESIGNER
\$2,000



2 SLAB PLAN

1 DEVIATION PLAN



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CONTRACT
**DULUTH
 TRANSIT
 AUTHORITY**
 2402 W. MICHIGAN ST.
 DULUTH, MN

PROJECT NAME
**BUS LIFT
 REPLACEMENT**

SECTIONS
 & DETAILS

TITLE: **SECTION**
 DRAWN BY: **PKV/AL**
 CHECKED BY: **MMB**
 DATE: **11/10/05**
\$3,000