



November 22, 2013

Mr. Patrick Fahn
Director of Division
North Dakota bureau of weights and measures

Re: Request for variance permit to use a self contained pitless scale for commercial weighing

Dear Mr. Patrick Fahn,

Please let this letter serve as an application for a variance permit to use a self contained pitless scale for commercial weighing at the Unimin Terminal facility in New Town, ND for a period of approximately six (6) months, would like to begin to use this portable scale for weighing empty trucks by December 10, 2013.

Directions to the Site:

The site is located south of New Town, approximately 0.50 miles south State Highway 23, and directly west of College Drive. Directions from Bismarck, North Dakota are as follows: North from Bismarck on U.S. Highway 83 to State Highway 23, West on State Highway 23 to New Town, south on College Drive for 0.25 miles, Site is on the right (west side of College Drive).

Project Purpose

Unimin is currently constructing a terminal facility to provide a rail to truck loading facility for frac sand for use in Bakken Formation oil production. Rail cars are anticipated to offload the silica sand for loading into semi trailer trucks that will deliver the frac sand to well locations.

Reason for variance

Because the permanent scales located under the silos will not be accessible during construction and that Unimin would like to go into business in December 10, 2013 using tracks A and B, a variance is needed to use the portable scale for commercial purpose. The silos and all associated material handling construction is expected to be completed in May 2014.



Portable scale description

The scale serial number: **SO300527**
The scale description is 13570-EPRLF
Portable self-contained Electronic motor truck scale
135 ton Capacity
70' x 11' platform, 4-section
Checkered steel Deck
NTEP Certified for 45 ton CLC
With lower frame and spreader bars
eMIN=20lb, nMAX=10K, CoC 97-093

Please see attached information about the portable scale and the Unimin Frac Sand Terminal Facility.

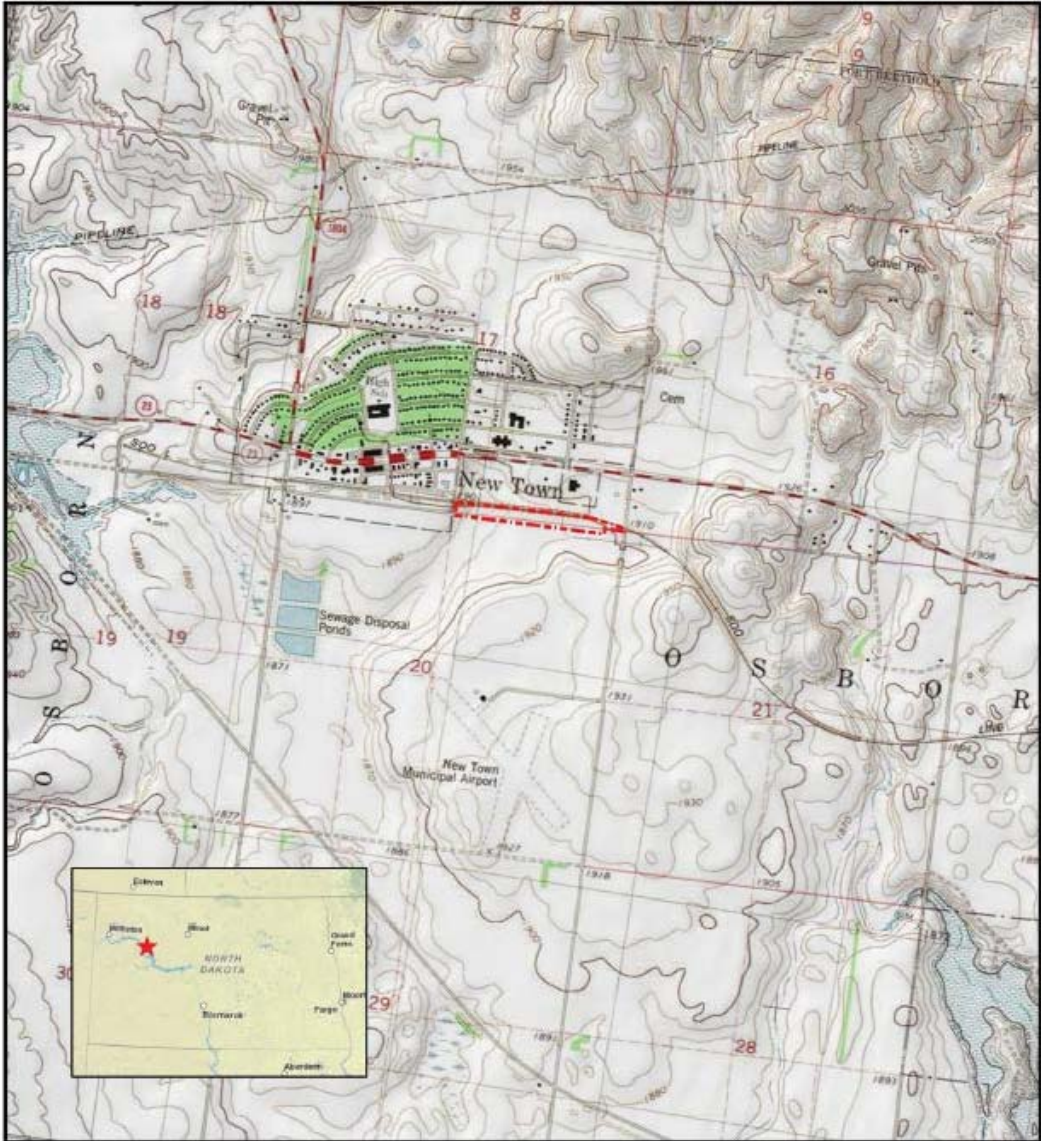
Sincerely,

Jerome Mikombo
Project Engineer
Unimin Corporation
149-A Houston Rd
Troutman, NC 28166
Office: (704) 528-5545 Ext. 25
Cell: (704) 775- 6101
email: jmikombo@unimin.com

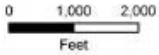
Mailing Address:
258 Elm Street
New Canaan
CT 06840

FIGURES

FIGURE 1
Site Location Map



Proj. No.: N013224.000
 Date: August 7, 2013
 GIS Analyst: ST
 Reviewed By: KR



Pinnacle Engineering
 11341 39th Avenue North
 Minneapolis, Minnesota 55420
 Tel: (763) 315-4901 Fax: (763) 315-4907

Figure 1:
 Site Location

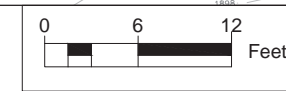
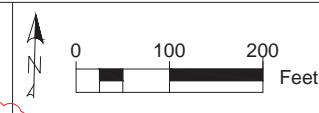
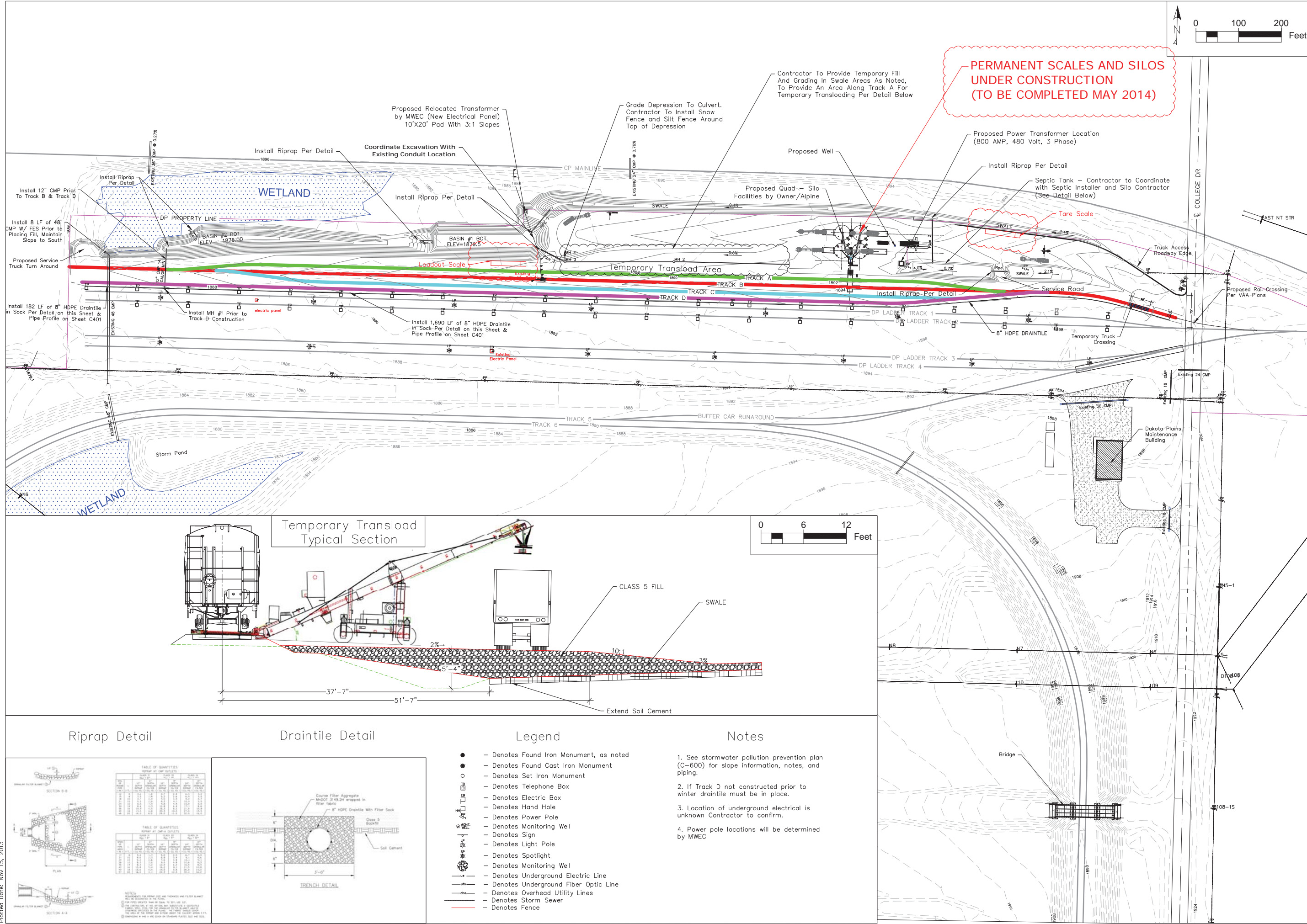
Uminin Corporation
 Sand Transload Facility
 New Town, North Dakota

Legend
 Site Boundary

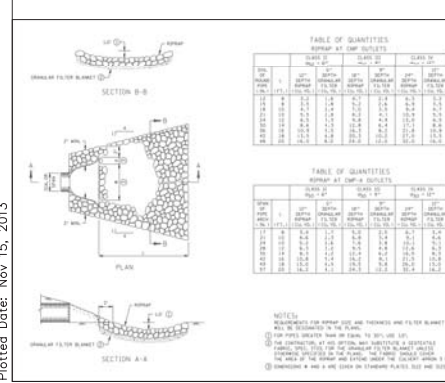
FIGURE 2

Site Layout and Silos General Arrangement Drawings

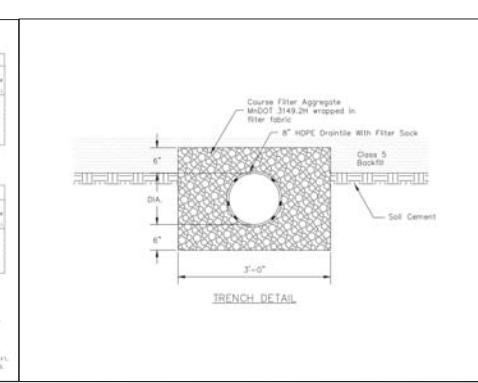
Drawing File: N:\Projects\C-D Clients\Dakota Plains Holding Inc\2012 Projects\N012467.003 Loop Track Design and Planning\Civil 3D Drawings\FINAN013224_PHASE1_GRADING.dwg
 Plotted Date: Nov 15, 2013



Riprap Detail



Draintile Detail



Legend

- - Denotes Found Iron Monument, as noted
- - Denotes Found Cast Iron Monument
- - Denotes Set Iron Monument
- - Denotes Telephone Box
- - Denotes Electric Box
- - Denotes Hand Hole
- - Denotes Power Pole
- - Denotes Monitoring Well
- - Denotes Sign
- - Denotes Light Pole
- - Denotes Spotlight
- - Denotes Monitoring Well
- - Denotes Underground Electric Line
- - Denotes Underground Fiber Optic Line
- - Denotes Overhead Utility Lines
- - Denotes Storm Sewer
- - Denotes Fence

Notes

1. See stormwater pollution prevention plan (C-600) for slope information, notes, and piping.
2. If Track D not constructed prior to winter draintile must be in place.
3. Location of underground electrical is unknown Contractor to confirm.
4. Power pole locations will be determined by MVEC

NO.	DATE	ISSUE/REVISION	DRWN	CHKD
1	8/14/13	Alignment Shift North	MJB	GEB
2	8/28/13	Site Entrance & Temporary Crossing	MJB	GEB
3	9/19/13	Truck Road West Extension	MJB	MJC
4	10/18/13	Phase 1 Gravel Fill	MJB	MJC

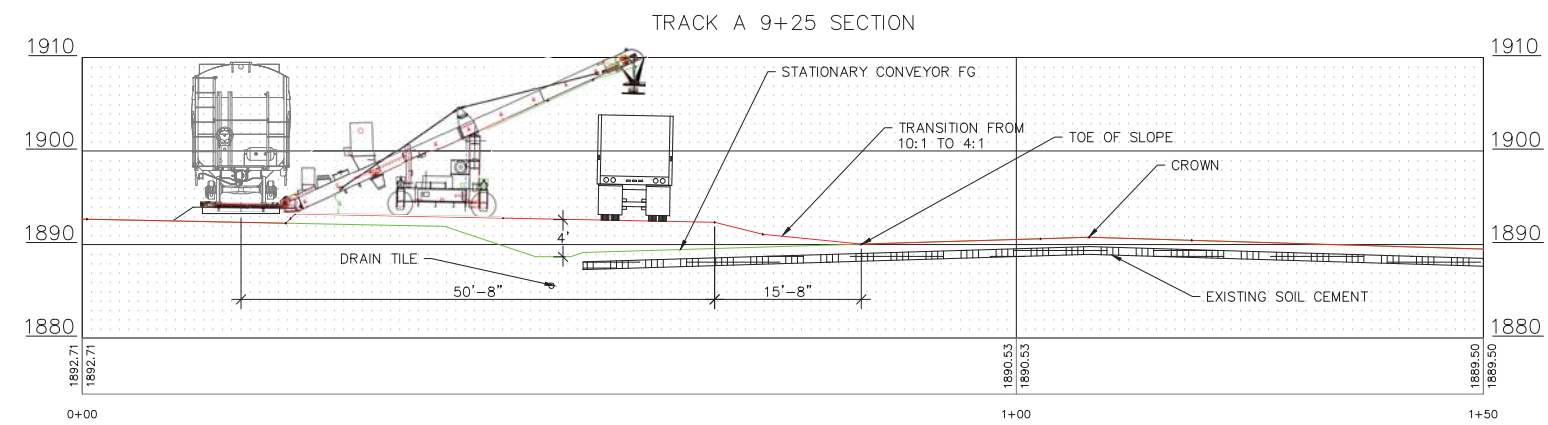
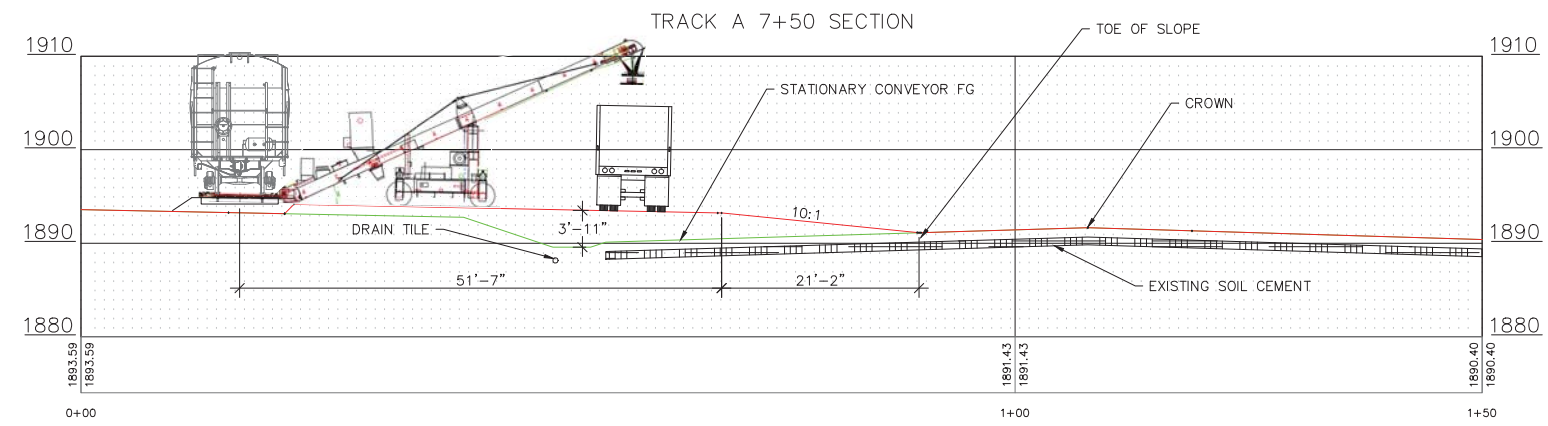
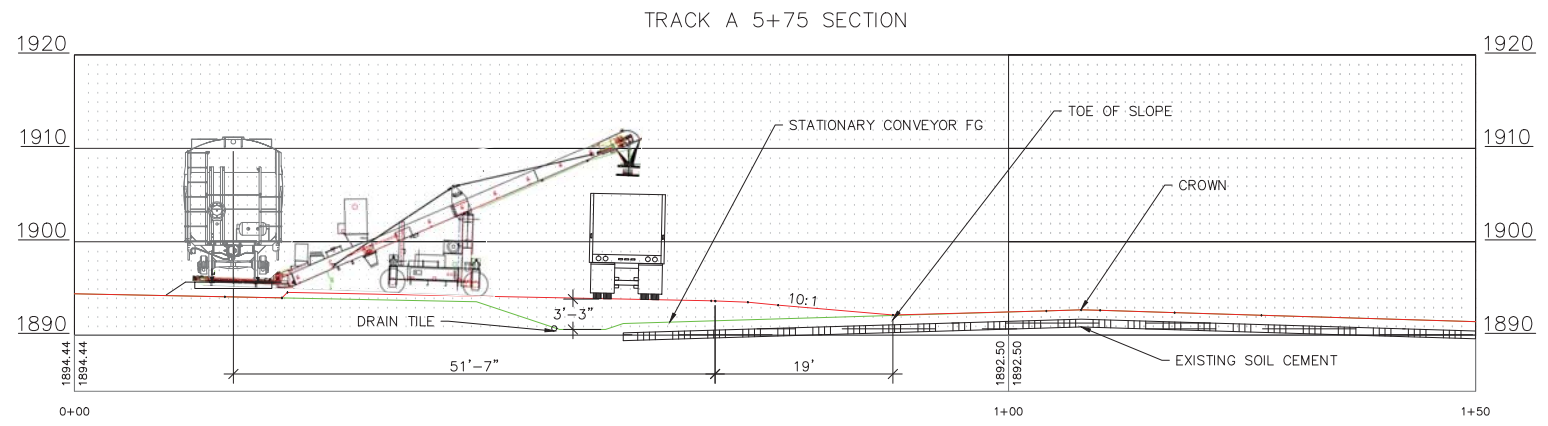
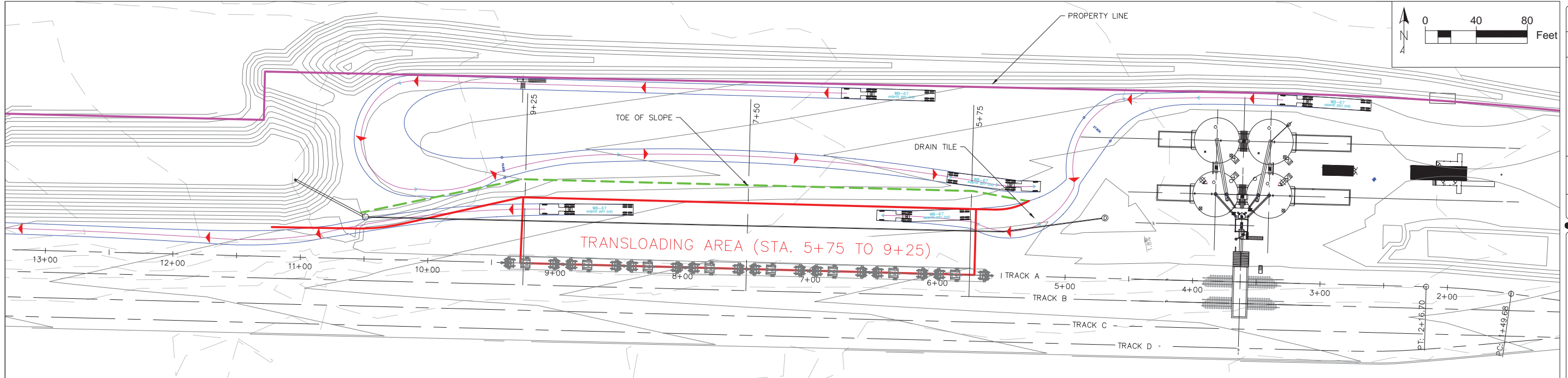
Pinnacle Engineering
 11541 95th Ave N.
 Minneapolis, MN 55369
 (763) 315-4501
 www.pineg.com

DATE:	DRAWN:	DESIGNED:	CHECKED:	APPROVED:
9/9/13	MJB	GEB	GEB	GEB

PROJECT: **FRAC SAND SIDING FACILITY NEW TOWN, ND**
 CLIENT: **UNIMIN CORPORATION**

DRAWING TITLE: **SITE, GRADING, & STORM DRAIN PLAN PHASE 1**
 PROJECT NO.: N013224.000
 DRAWING NO.: **C110**
 SCALE: AS NOTED

Drawing File: N:\Projects\C-D Clients\Dakota Plains Holding Inc\2012 Projects\N012467.003 Loop Track Design and Planning\Civil 3D Drawings\N012467.003_PORT_INSL.dwg
Plotted Date: Oct 17, 2013



PRELIMINARY
NOT FOR CONSTRUCTION

NO.	DATE	ISSUE/REVISION	CHKD

Pinnacle Engineering
11541 95th Ave N.
Minneapolis, MN 55369
(763) 315-4501
www.pineneng.com

DATE:	10/16/2013
DRAWN:	MJB
DESIGNED:	GEB
CHECKED:	GEB
APPROVED:	GEB

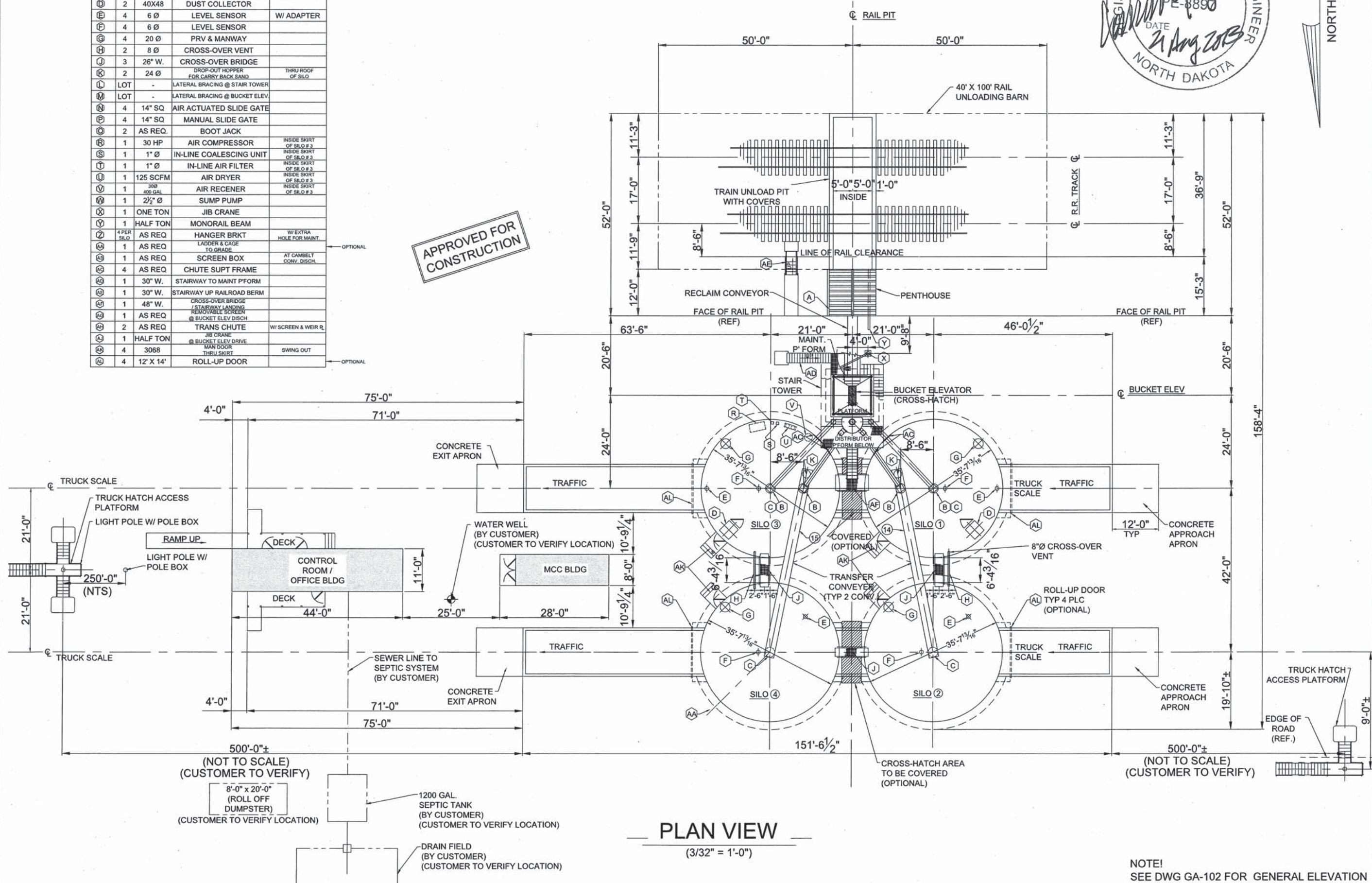
PROJECT
FRAC SAND SIDING FACILITY
NEW TOWN, ND
CLIENT

unimin.
UNIMIN CORPORATION

DRAWING TITLE	SCALE: AS NOTED
219D TRANSLOAD OPTION	
DRAWING NO.	PROJECT NO. N013224.000

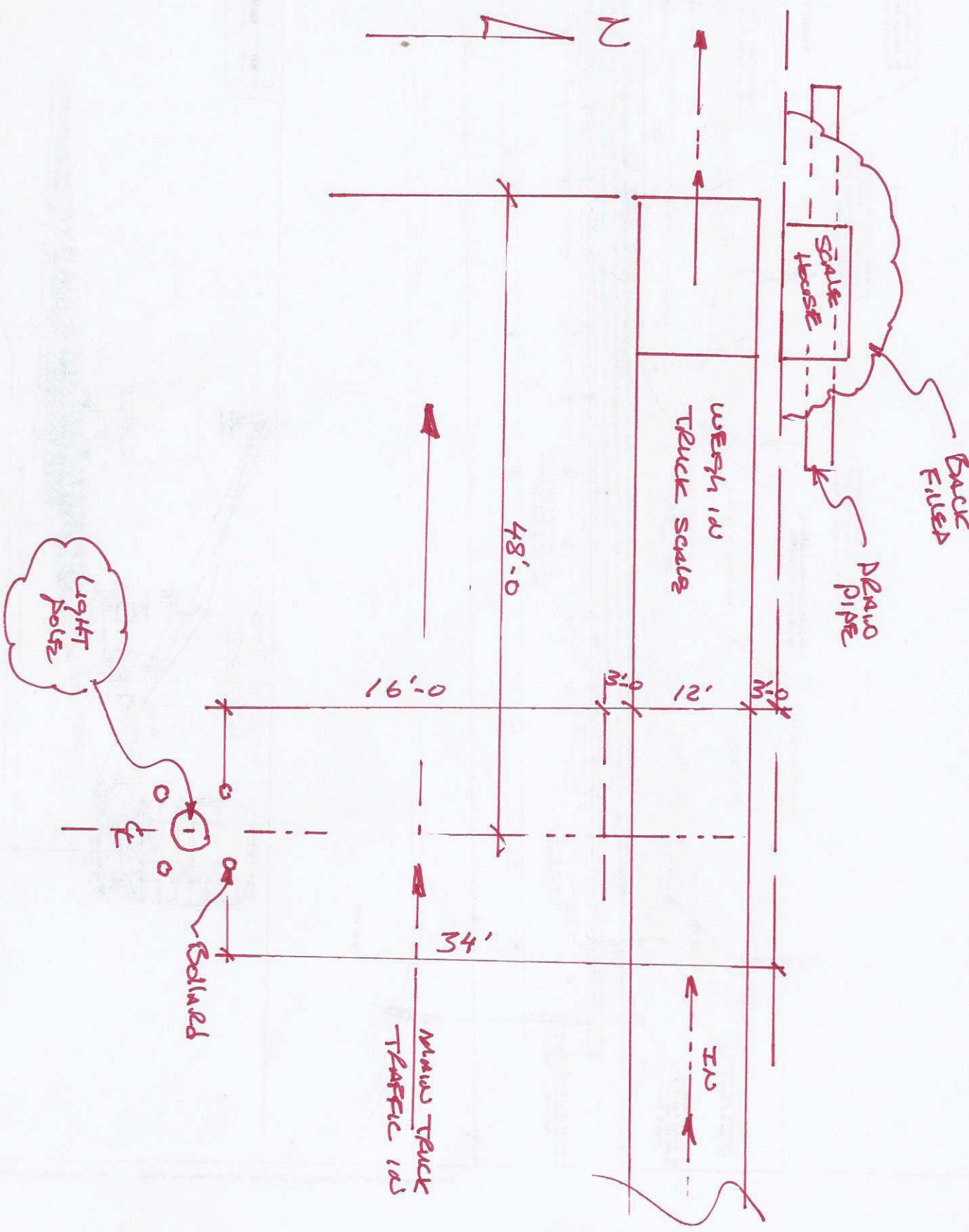
FITTING SCHEDULE				
MARK	No REQ	SIZE	SERVICE	REMARKS
(A)	1	12'X12'	PENTHOUSE	W/ METAL SIDING
(B)	4	AS REQ.	TARGET BOX	
(C)	4	36 Ø	CENTER DOME	W/ COVER
(D)	2	40X48	DUST COLLECTOR	
(E)	4	6 Ø	LEVEL SENSOR	W/ ADAPTER
(F)	4	6 Ø	LEVEL SENSOR	
(G)	4	20 Ø	PRV & MANWAY	
(H)	2	8 Ø	CROSS-OVER VENT	
(I)	3	26" W.	CROSS-OVER BRIDGE	
(J)	2	24 Ø	DROP-OUT HOPPER FOR CARRY BACK SAND	THRU ROOF OF SILO
(K)	LOT	-	LATERAL BRACING @ STAIR TOWER	
(L)	LOT	-	LATERAL BRACING @ BUCKET ELEV.	
(M)	4	14" SQ	AIR ACTUATED SLIDE GATE	
(N)	4	14" SQ	MANUAL SLIDE GATE	
(O)	2	AS REQ.	BOOT JACK	
(P)	1	30 HP	AIR COMPRESSOR	INSIDE SKIRT OF SILO #3
(Q)	1	1" Ø	IN-LINE COALESCING UNIT	INSIDE SKIRT OF SILO #3
(R)	1	1" Ø	IN-LINE AIR FILTER	INSIDE SKIRT OF SILO #3
(S)	1	125 SCFM	AIR DRYER	INSIDE SKIRT OF SILO #3
(T)	1	400 GAL	AIR RECENER	INSIDE SKIRT OF SILO #3
(U)	1	2 1/2" Ø	SUMP PUMP	
(V)	1	ONE TON	JIB CRANE	
(W)	1	HALF TON	MONORAIL BEAM	
(X)	4 PER SILO	AS REQ.	HANGER BRKT	W/ EXTRA HOLE FOR MAINT.
(Y)	1	AS REQ.	LADDER & CAGE TO GRADE	
(Z)	1	AS REQ.	SCREEN BOX	AT CAMBELT CONV. DISCH.
(AA)	4	AS REQ.	CHUTE SUPT FRAME	
(AB)	1	30" W.	STAIRWAY TO MAINT P'FORM	
(AC)	1	30" W.	STAIRWAY UP RAILROAD BERM	
(AD)	1	48" W.	CROSS-OVER BRIDGE (STAIRWAY LANDING)	
(AE)	1	AS REQ.	REMOVABLE SCREEN @ BUCKET ELEV DISCH	
(AF)	2	AS REQ.	TRANS CHUTE	W/ SCREEN & WEIR R.
(AG)	1	HALF TON	JIB CRANE @ BUCKET ELEV DRIVE	
(AH)	4	3068	THRU SKIRT	SWING OUT
(AI)	4	12' X 14'	ROLL-UP DOOR	

APPROVED FOR CONSTRUCTION

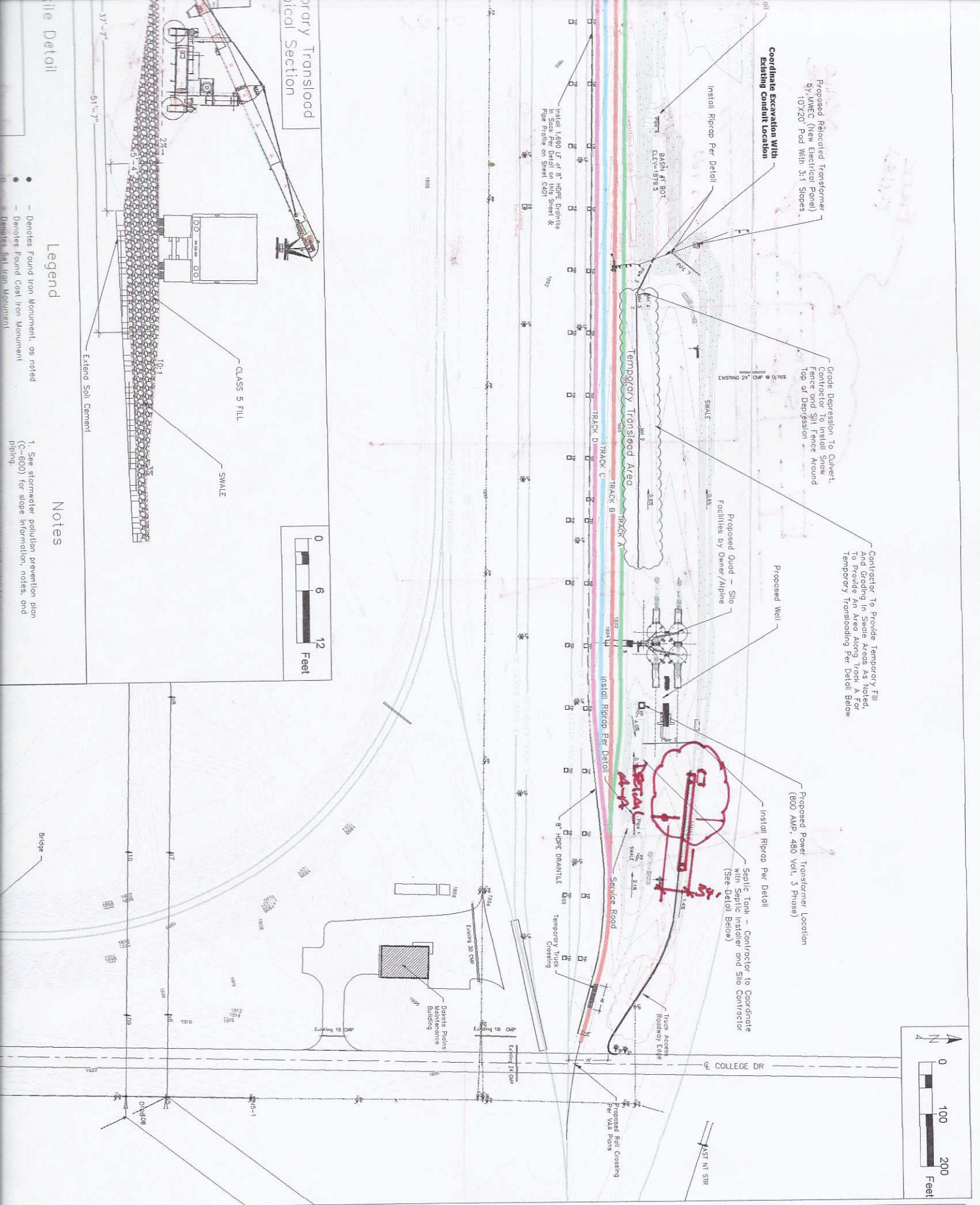


PLAN VIEW
(3/32" = 1'-0")

		FRAC-SAND TRANSLOAD NEW TOWN, NORTH DAKOTA	
08-05-13 1 08-07-13 2	ADD DUMPSTER LOCATION/ DKC REVISE CROSS-OVER LOC.	DATE NO.	REVISION DESCRIPTION BY
<small>THIS DRAWING IS THE PROPERTY OF ALPINE INDUSTRIAL SYSTEMS INC. AND IS LIMITED TO THE CONNECTION WITH THE RECIPIENT. ALL RIGHTS TO THE INFORMATION, DETAIL DESIGN OR DRAWING ARE SPECIFICALLY RESERVED BY ALPINE INDUSTRIAL SYSTEMS INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF ALPINE INDUSTRIAL SYSTEMS INC.</small>			
GENERAL ARRANGMENT FRAC-SAND TRANSLOAD NEW TOWN, NORTH DAKOTA			
SCALE: 3/32"=1'-0" DATE: 07-25-13 DESIGN BY: TSS DRAWN BY: DLG CHECKED BY: TSS APPROVED BY: DKC			
GA-101 SHEET NO. 2 REVISION			



Detail A-A



Proposed Relocated Transformer by WMEC (New Electrical Panel) 10'x20' Pad With 3:1 Slopes

Coordinate Excavation With Existing Conduit Location

Install Riprap Per Detail

Grade Depression To Culvert. Contractor To Install Snow Fence and Silt Fence Around Top of Depression

Proposed Durd - Silt Facilities by Owner/Alpine

Proposed Well

Contractor To Provide Temporary Fill And Grading In Stake Areas Noted To Provide Allowance For Track A For Temporary Transloading Per Detail Below

Proposed Power Transformer Location (800 AMP, 480 Volt, 3 Phase)

Install Riprap Per Detail

Septic Tank - Contractor to Coordinate with Septic Installer and Silt Contractor (See Detail Below)

Install 1,890 LF of 8" HDPE Drip/Irrigation Pipe Per Detail on this Sheet & Pipe Profile on Sheet C401

Install 1,890 LF of 8" HDPE Drip/Irrigation Pipe Per Detail on this Sheet & Pipe Profile on Sheet C401

Install Riprap Per Detail

Service Road

Truck Access Roadway Edge

Proposed Rail Crossing Per V&A Plans

Existing 15 CMP

Existing 18 CMP

Existing 21 CMP

Existing 30 CMP

Existing 36 CMP

Existing 42 CMP

Existing 48 CMP

Existing 54 CMP

Existing 60 CMP

Existing 66 CMP

Existing 72 CMP

Existing 78 CMP

CLASS 5 FILL

SWALE

Extend Soil Cement

CLASS 5 FILL

SWALE

Extend Soil Cement

CLASS 5 FILL

SWALE

Extend Soil Cement

CLASS 5 FILL

SWALE

Extend Soil Cement

CLASS 5 FILL

SWALE

Extend Soil Cement

CLASS 5 FILL

SWALE

Extend Soil Cement

0 6 12 Feet

0 100 200 Feet

0 6 12 Feet

0 100 200 Feet

0 6 12 Feet

0 100 200 Feet

0 6 12 Feet

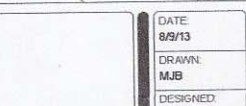
0 100 200 Feet

0 6 12 Feet

0 100 200 Feet

PROJECT
FRAC SAND SIDING FACILITY
NEW TOWN, ND

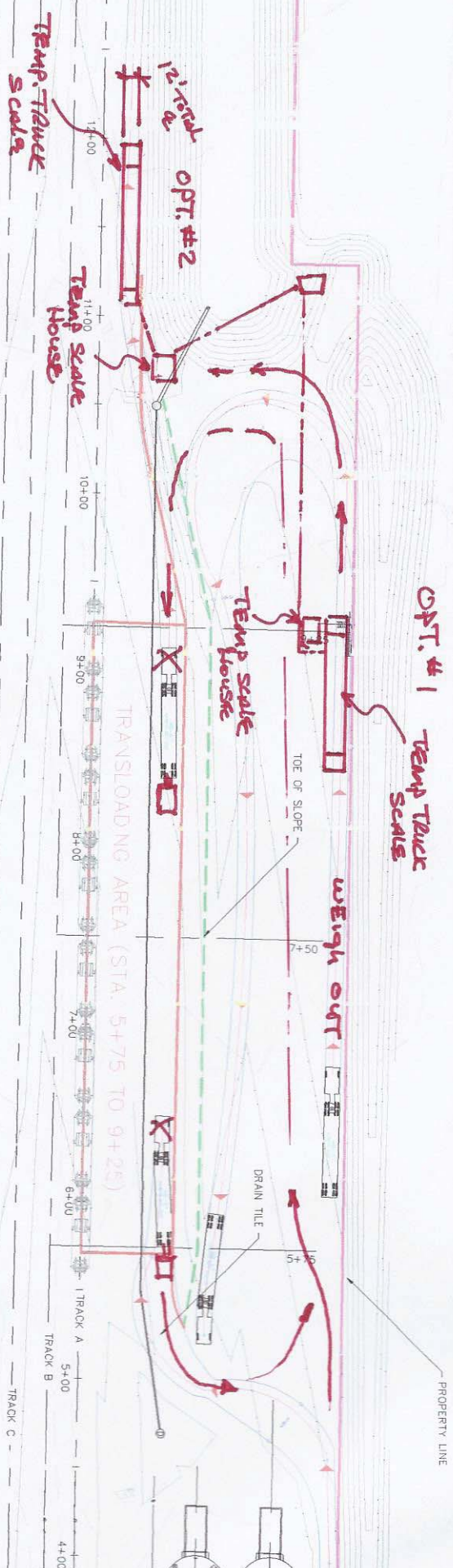
DATE
8/9/13
DRAWN
MJB
DESIGNED



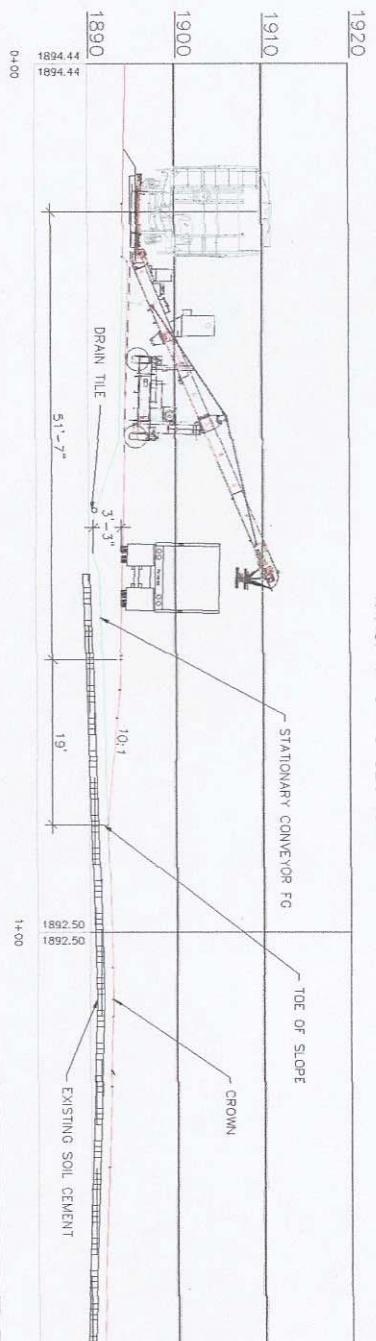
NO.	DATE	ISSUE/REVISION	DRWN	CHKD
1	8/14/13	Alignment Shift North	MJB	GEB
2	8/28/13	Site Entrance & Temporary Crossing	MJB	GEB
3	9/19/13	Truck Road West	MJB	MJC

STORM 1

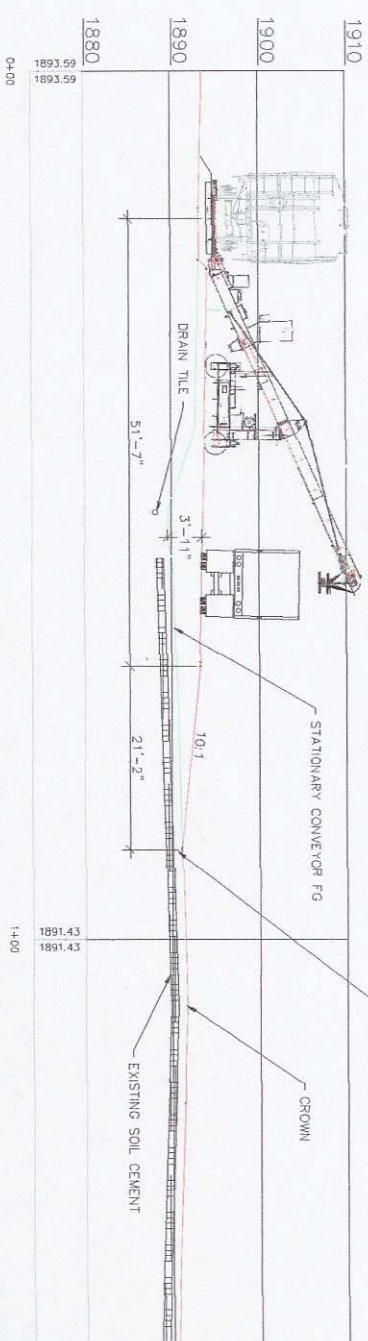
OPTION #2 AREA
 CURBILITY BEAMS USED
 FOR TRACK WORK



TRACK A 5+75 SECTION



TRACK A 7+50 SECTION



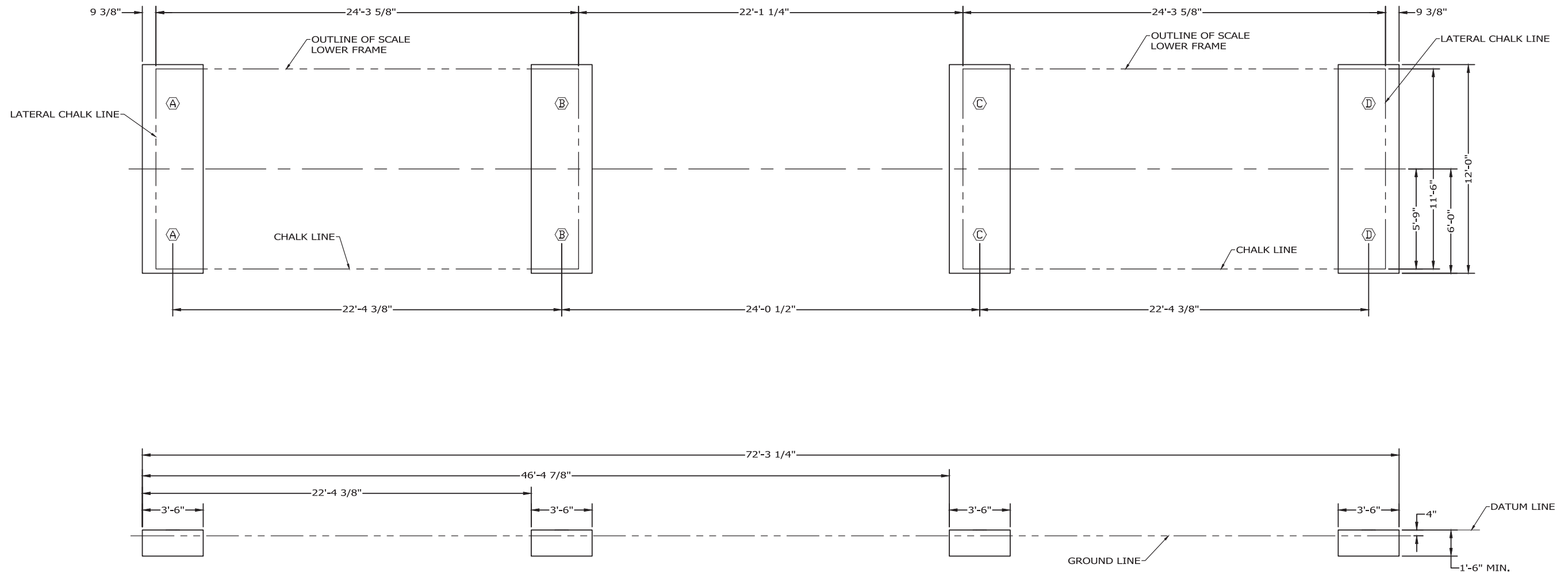
TRACK A 9+25 SECTION



FIGURE 3
Truck Scale Drawings

REVISION HISTORY			
LTR	DESCRIPTION	DATE	BY
A	RELEASE FOR PRODUCTION	03/26/10	24996 ADB
B	REMOVED CONDUIT REVISED NOTE 9	9/26/11	25308 TPY

PIER LOADINGS AT SECTIONAL CAPACITY	
PIER	LOADING
A	51.0 KIPS
B	56.0 KIPS
C	56.0 KIPS
D	51.0 KIPS



NOTES:

1. THE SCALE PIER PLAN AS SHOWN IS SUFFICIENT FOR FIRM SOIL AND GOOD CONCRETE. THE MINIMUM SOIL BEARING SHALL BE 4,000 POUNDS PER SQUARE FOOT AND THE MINIMUM CONCRETE STRENGTH SHALL BE 3,000 POUNDS PER SQUARE INCH, 28 DAY. FOR UNUSUAL SOIL CONDITIONS OR DEEP FROST PENETRATION, ALTER THE FOUNDATION AS REQUIRED. THE FOOTING SHALL BE BELOW THE FROST LINE.
2. TOP OF PIERS SHALL BE IN A LEVEL PLANE AND A MINIMUM OF 4 INCHES ABOVE THE GROUND LINE.
3. A MINIMUM REINFORCING SCHEDULE OF #4 RODS ON 6 INCH CENTERS SHALL EXTENDED THE ENTIRE WIDTH OF THE PIERS. REINFORCING RODS SHALL BE PLACED 3 INCHES FROM THE TOP AND BOTTOM OF SURFACE OF THE PIERS.
4. THE CONTRACTOR SHALL CONTACT THE STATE WEIGHT AND MEASURES DIVISION FOR STATE FOUNDATION REQUIREMENTS. (SOME STATES REQUIRE SPECIAL PIER DEPTHS.)
5. CARDINAL SCALE MFG. CO. SHALL NOT BE RESPONSIBLE FOR THE STABILITY OF THE PIERS.
6. APPROXIMATELY 9.4 CUBIC YARDS OF CONCRETE REQUIRED.

NOTES CONTINUED:

7. ON THE APPROACH END OR ENDS OF A VEHICLE SCALE INSTALLED IN ANY ONE LOCATION FOR A PERIOD OF SIX MONTHS OR MORE, THERE SHALL BE A STRAIGHT APPROACH AS FOLLOWS:
(A) AT LEAST THE WIDTH OF THE PLATFORM AND
(B) AT LEAST ONE-HALF THE LENGTH OF THE PLATFORM BUT NOT REQUIRED TO BE MORE THAN 40 FEET, AND
(C) NOT LESS THAN 10 FEET OF ANY APPROACH ADJACENT TO THE PLATFORM SHALL BE CONSTRUCTED OF CONCRETE OR SIMILAR DURABLE MATERIAL TO INSURE THAT THIS PORTION REMAINS SMOOTH AND LEVEL AND IN THE SAME PLANE AS THE PLATFORM. HOWEVER, GRATING OF SUFFICIENT STRENGTH TO WITHSTAND ALL LOADS MAY BE INSTALLED IN THIS PORTION; AND FURTHER WHERE DEEMED NECESSARY FOR DRAINAGE PURPOSES, THE REMAINING PORTION OF THE APPROACH MAY SLOPE SLIGHTLY.
8. CONSTRUCT CHALK LINES AS SHOWN BEFORE PLACING THE SCALE.
9. THE SUMMING CABLES, FROM THE LOWER FRAMES TO THE SUMMING JUNCTION BOX, MUST BE INSTALLED IN A PROTECTIVE 1" MINIMUM SIZE CONDUIT OR COVER. THE INDICATOR CABLE MUST BE INSTALLED IN A PROTECTIVE 1 1/2" MINIMUM SIZE CONDUIT OR COVER. THE CABLE MUST BE A MINIMUM OF 24" FROM ALL A.C. ELECTRICAL LINES. (THEY MAY CROSS AT 90° ONLY.)

FOR REFERENCE ONLY

QTY.	QTY.	QTY.	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
			-0A	ASSY.			
PARTS/MATERIAL LIST							
UNLESS OTHERWISE SPECIFIED TOLERANCE ON DIMENSIONS ARE: ANGLES ± 1/2° INTEGERS/FRACTIONS ± 1/16 IN. DECIMALS (.X) ± .03 IN. DECIMALS (.XX) ± .01 IN. DECIMALS (.XXX) ± .005 IN. NOTE: WHOLE NUMBERS MUST BE WRITTEN XX,000 TO INVOKE DECIMAL TOLERANCES.							
Cardinal Cardinal Scale Manufacturing Co. WEBB CITY, MISSOURI 64486				CARDINAL DETECTO FULLER WEIGHING SYSTEMS			
TITLE PIER PLAN: 4-SECTION STEEL SCALE; SELF-CONTAINED ELECTRONIC MOTOR TRUCK SCALE							
SCALE	NTS	DO NOT SCALE	NEXT	ASSEMBLY	0102-D295-0A		
DR. ADB	DATE	3/26/2010					
CH.							
MODEL	13570 EPR-LF	SHEET	1	DWG. NO.	0102-D296-0A		REV. B

FIGURES 4

Photos

