

ADDENDUM NO. 1

PROJECT NAME: Nebraska Soccer & Tennis Complex
UNL PROJECT NUMBER: C909P101
BID INVITATION NUMBER: 2257-13-7214

CONSULTANT: Olsson Associates, Inc.
ADDRESS: 1111 Lincoln Mall, Suite 111, Lincoln, NE 68508

DATE OF ISSUANCE: Friday, October 18, 2013
DATE OF BID OPENING: Thursday, October 24, 2013

The bid documents dated October 3rd & 4th, 2013 for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

MODIFICATIONS TO THE DRAWINGS:

DEMOLITION PLAN - DRAWING SHEET NO. 1 OF 7

1. Replace with attached Sheet 1 of 7.

PHASING PLAN - DRAWING SHEET NO. 2 OF 7

1. Replace with attached Sheet 2 of 7.

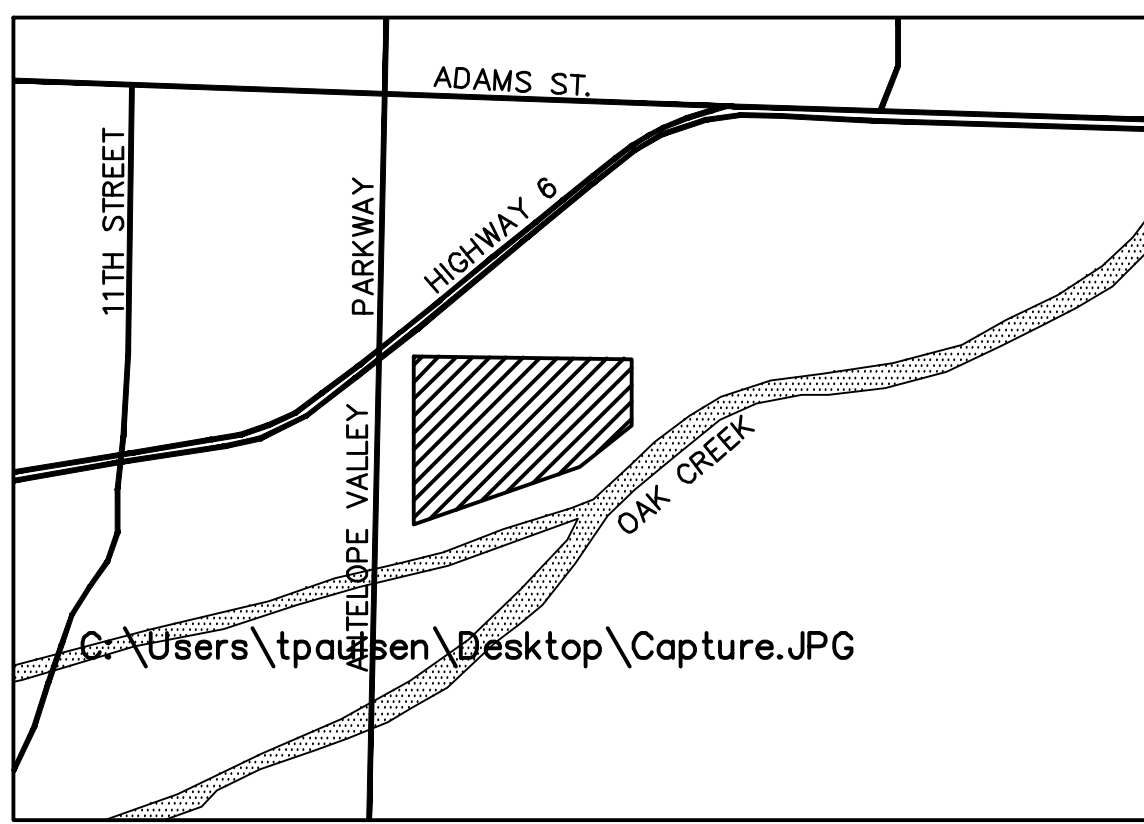
GRADING PLAN - DRAWING SHEET NO. 3 OF 7

1. Replace with attached Sheet No. 3 of 7.

OLSSON ASSOCIATES BOREHOLE REPORTS

1. Add attached Boring Location Map and Borehole Reports to Bid documents.

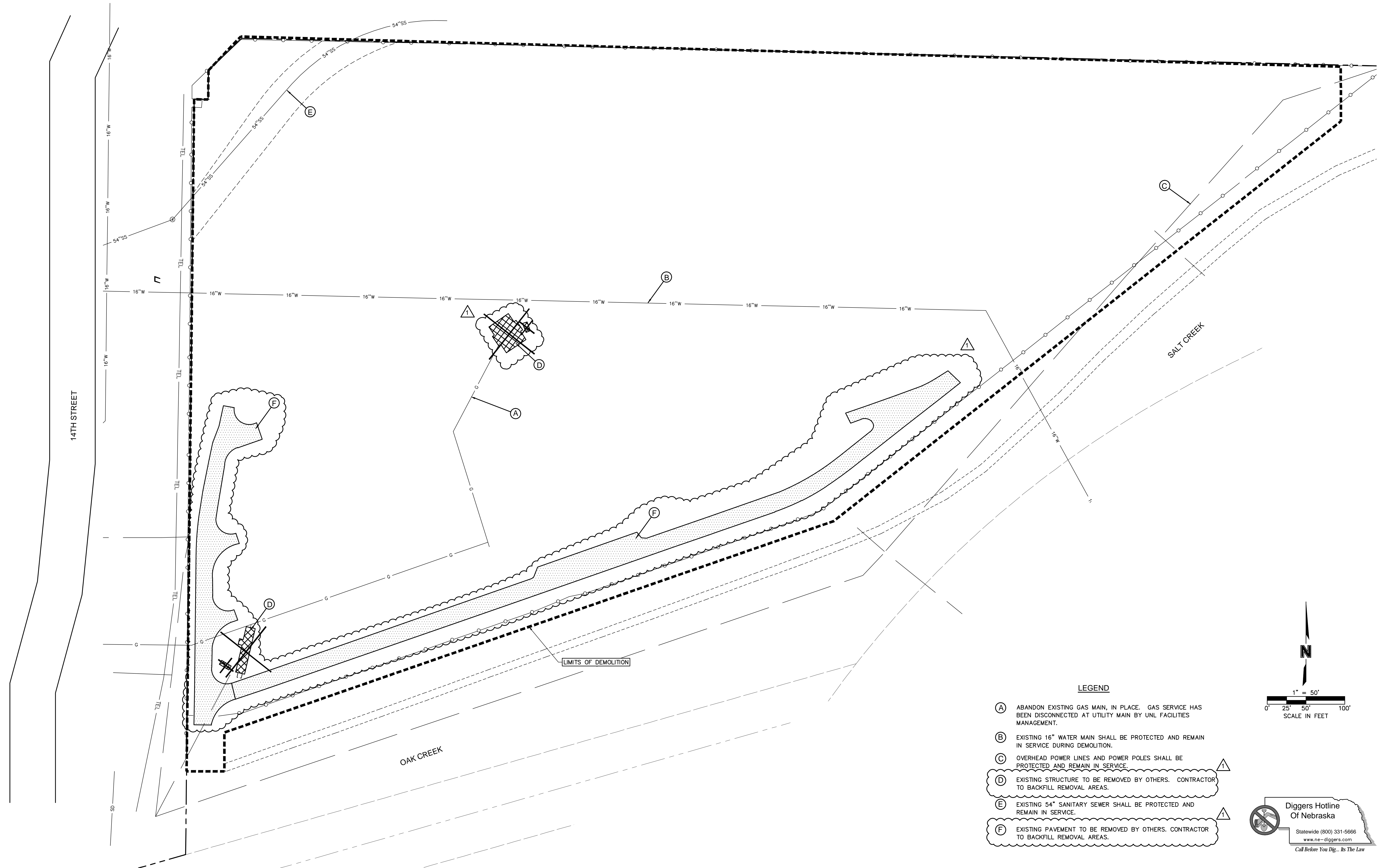
END OF ADDENDUM NO. 1



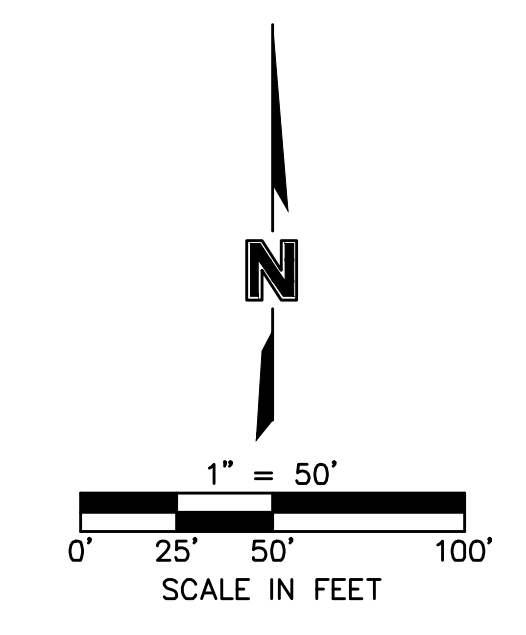
BENCHMARKS

1. CHISELED SQUARE IN NE. CORNER OF CONC. PAD FOR GAS PUMP VENT PIPES, S. OF SALT CREEK BRIDGE, W. SIDE OF N. 14TH STREET.
ELEV.=1150.55 (N.A.V.D. 1988)
2. CHISELED SQUARE ON TOP OF CURB, AT NW CORNER OF BRIDGE AT W. ENTRANCE TO STATE FAIR GROUNDS.
ELEV.=1148.25 (N.A.V.D. 1988)
3. TAIL OF ARROW ON FIRE HYDRANT, S. OF SE. CORNER OF THE ICE BOX, COLISEUM, AT NE. CORNER OF HORSE BARN.
ELEV.=1150.16 (N.A.V.D. 1988)
4. CHISELED SQUARE ON E. END OF N. RETAINING WALL FOR NEW BRIDGE ON NEPARK.ORG ROAD.
ELEV.=1163.09 (N.A.V.D. 1988)
5. CHISELED SQUARE ON TOP OF CURB, E. ISLAND NOSE ON NEPARK.ORG ROAD AND RIVER ROAD.
ELEV.=1151.58 (N.A.V.D. 1988)
6. CHISELED SQUARE ON TOP OF CURB, AT END OF RETURN ON NEPARK.ORG ROAD AND JOURNAL STAR BLVD.
ELEV.=1141.57 (N.A.V.D. 1988)
7. CHISELED SQUARE ON TOP OF CURB, W. ISLAND NOSE ON NEPARK.ORG ROAD AND N. ANTELOPE VALLEY PARKWAY.
ELEV.=1145.61 (N.A.V.D. 1988)
8. CHISELED SQUARE ON TOP OF CURB, AT CENTER OF RETURN AT NE. CORNER OF STATE FAIR PARK DRIVE N., AND ??? W. SIDE OF OVERPASS.
ELEV.=1147.43 (N.A.V.D. 1988)

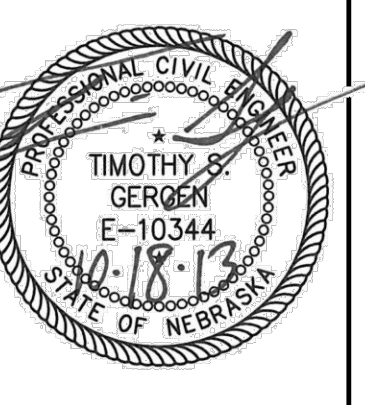
LEGEND
NOT TO SCALE



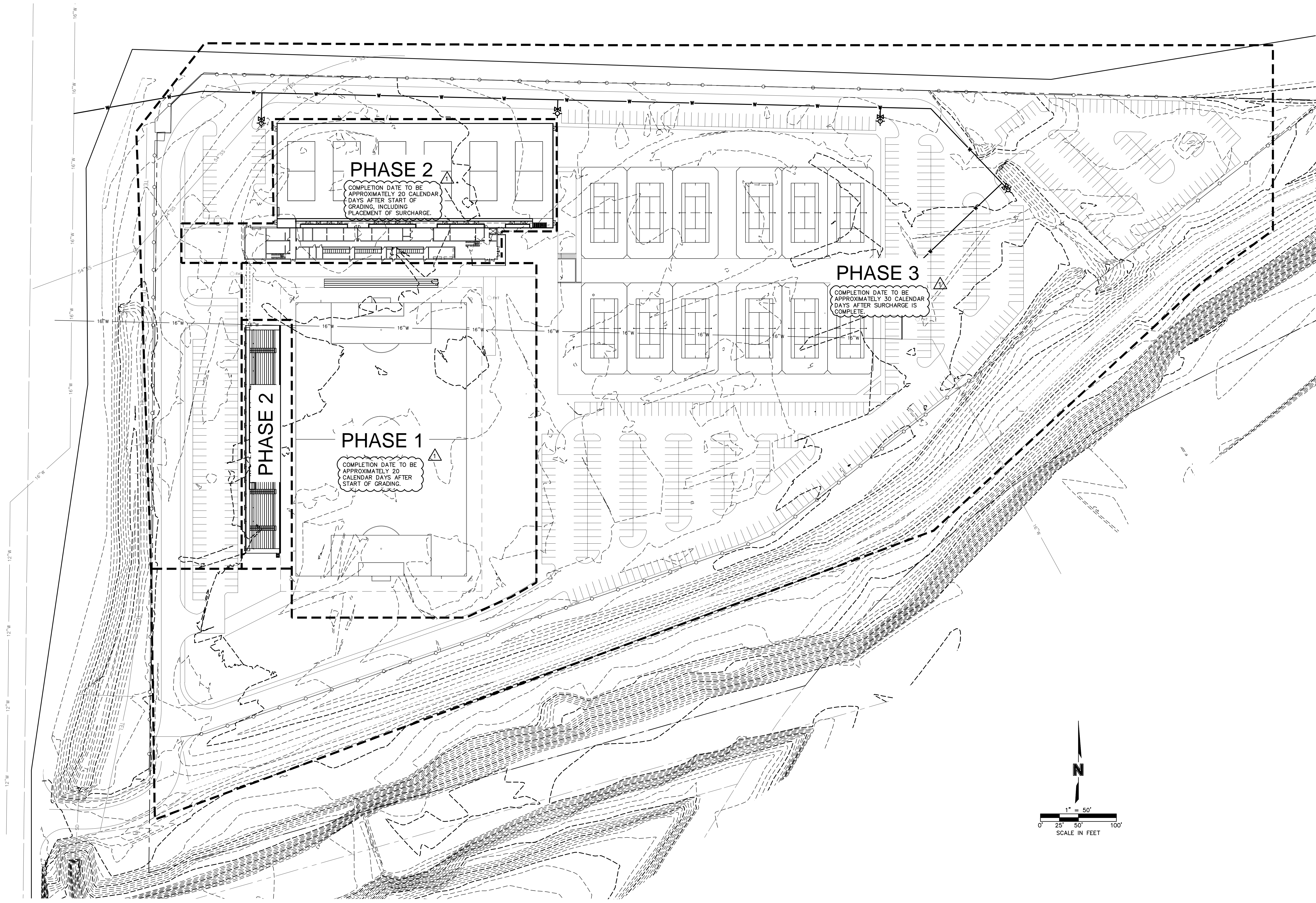
- LEGEND**
- (A) ABANDON EXISTING GAS MAIN, IN PLACE. GAS SERVICE HAS BEEN DISCONNECTED AT UTILITY MAIN BY UNL FACILITIES MANAGEMENT.
 - (B) EXISTING 16" WATER MAIN SHALL BE PROTECTED AND REMAIN IN SERVICE DURING DEMOLITION.
 - (C) OVERHEAD POWER LINES AND POWER POLES SHALL BE PROTECTED AND REMAIN IN SERVICE.
 - (D) EXISTING STRUCTURE TO BE REMOVED BY OTHERS. CONTRACTOR TO BACKFILL REMOVAL AREAS.
 - (E) EXISTING 54" SANITARY SEWER SHALL BE PROTECTED AND REMAIN IN SERVICE.
 - (F) EXISTING PAVEMENT TO BE REMOVED BY OTHERS. CONTRACTOR TO BACKFILL REMOVAL AREAS.



DWG: F:\Projects\013-0429_LDVP\Final_Plans\13-0429_DEMO.dwg USER: sosterhaus
 DATE: Oct 18, 2013 2:05pm XREFS: 0130429_XBASE 0130429_PBASE TIM_GERGEN_PL_NE

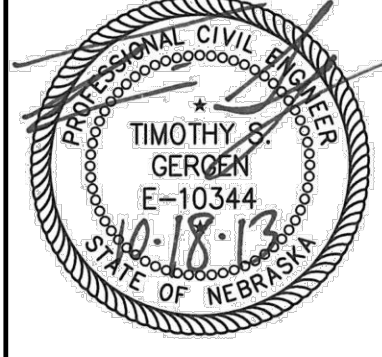


REV. NO.	DATE	REVISIONS DESCRIPTION
1	10/17/2013	BUILDING DEMO NOTES

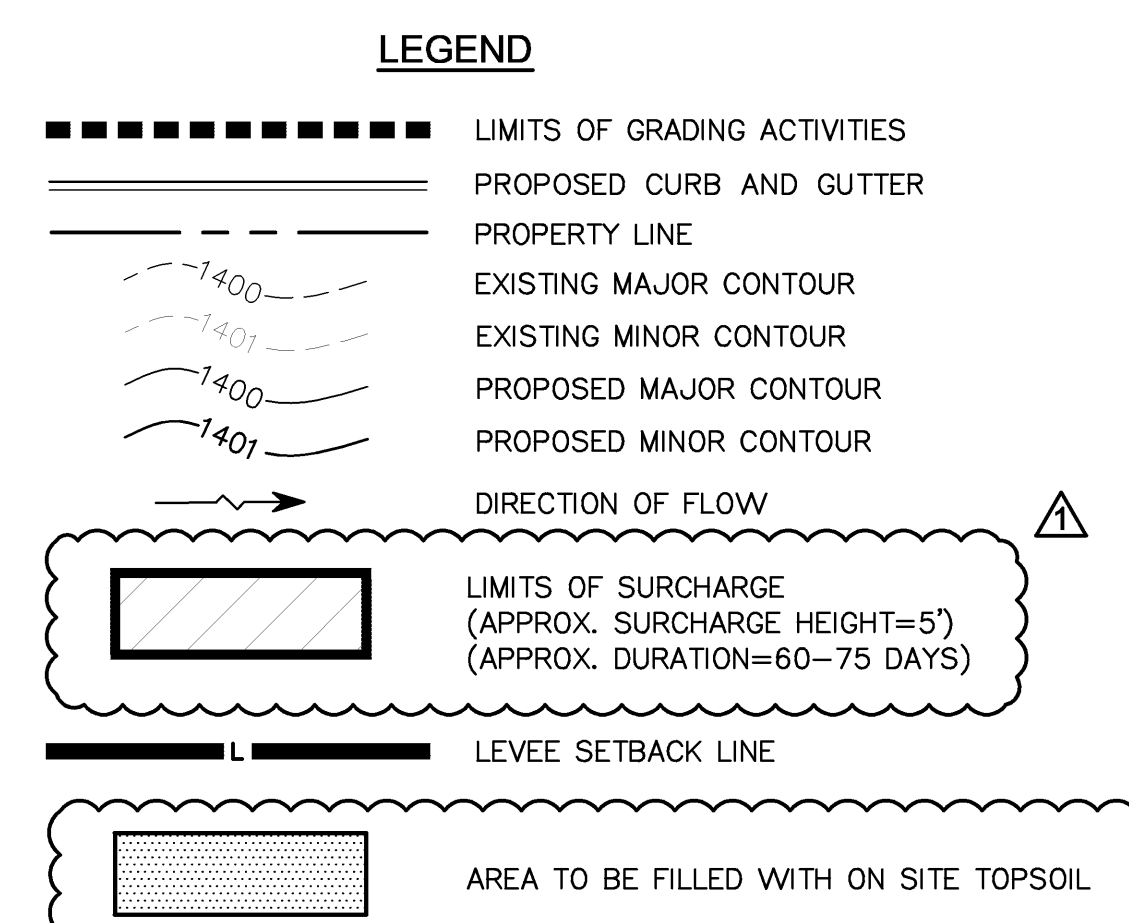
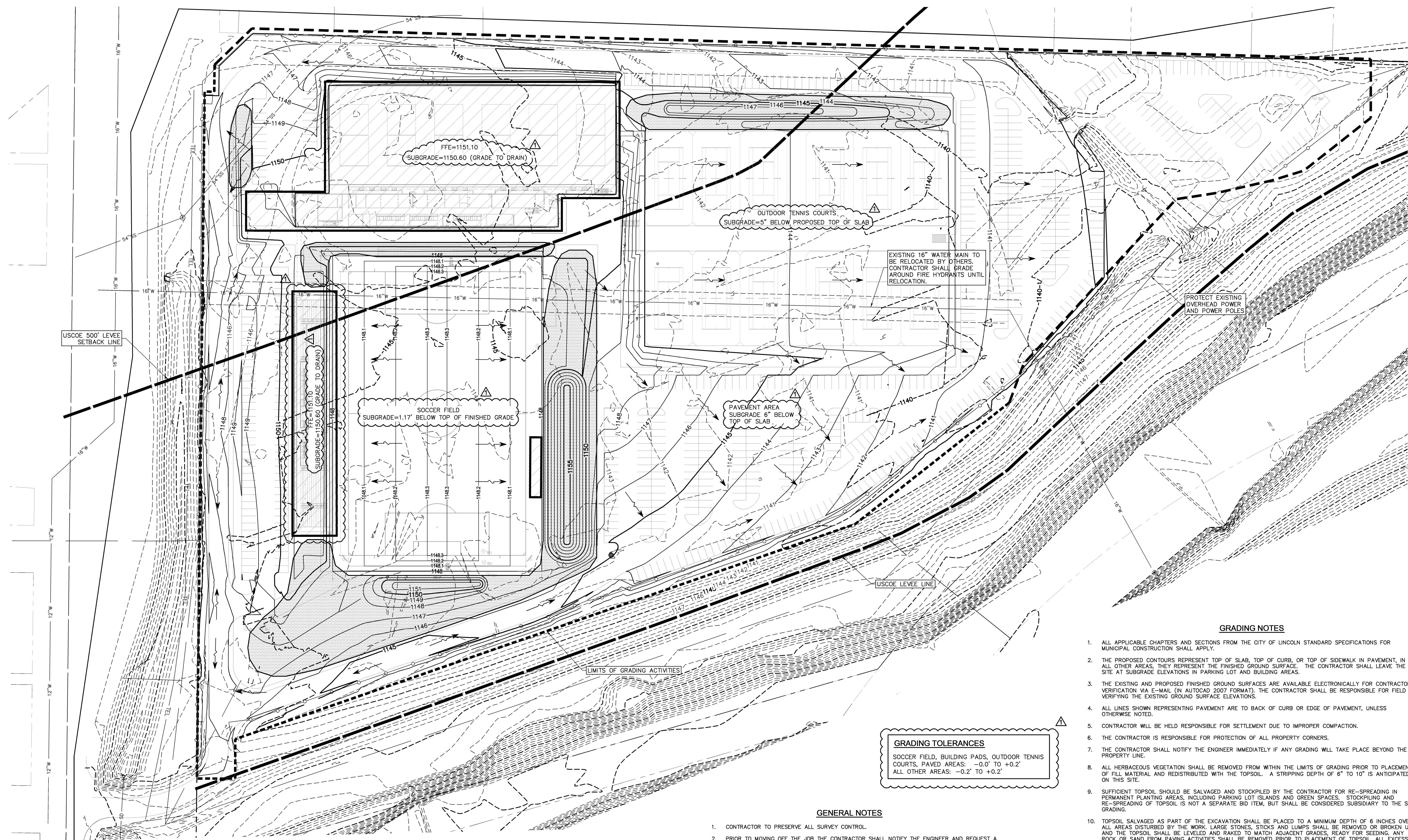


drawn by: TEG
 checked by: TSG
 approved by: TSG
 QA/QC by: TSG
 project no.: 013-0429
 drawing no.:
 date: 9.30.2013

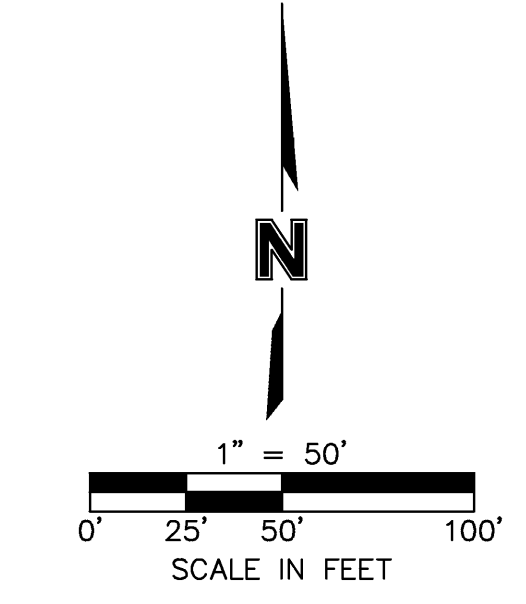
REV. NO.	DATE	REVISIONS DESCRIPTION
1	10.17.2013	SCHEDULING



DWG: F:\Projects\013-0429-LDWP\Final\Plans\3-0429_GRAD.dwg
 DATE: Oct 18, 2013 2:34pm
 USER: ssterns
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 106027-LDDE 0130429_XCONT 106027-LBASE 106027-LBASE-GDE



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UTILITY CONTACTS
 LINCOLN WASTE WATER - (402)441-7711
 LINCOLN ELECTRIC SYSTEM - (402)467-7623
 BLACK HILLS ENERGY - (402)437-1715
 WINDSTREAM COMMUNICATIONS - (402)436-5691
 TIME WARNER - (402)421-0330
 LINCOLN WATER SYSTEM - (402)441-7571

GRADING TOLERANCES
 SOCCER FIELD, BUILDING PADS, OUTDOOR TENNIS COURTS, PAVED AREAS: -0.0' TO +0.2'
 ALL OTHER AREAS: -0.2' TO +0.2'

GENERAL NOTES

- CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
- PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
- LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE DEVELOPER'S ENGINEER, CITY INSPECTOR, OR DEVELOPER'S ENGINEER FIELD REPRESENTATIVE ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND SERVICE ALERT @ 1-800-331-5666 IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.
- BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLAN IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES OR IMPROVEMENTS LOCATED ON SITE. HE SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.
- ALL SPOIL MATERIAL SHALL BE REMOVED FROM THE STREET ROW, UTILITY EASEMENT, OR ACCESS EASEMENT BY THE CONTRACTOR. SPOIL MATERIAL SHALL BE DEPOSITED WITHIN THE SITE DEVELOPMENT BOUNDARY IN AREAS DESIGNATED BY THE DEVELOPER'S ENGINEER. THE MATERIAL SHALL BE STOCKPILED OR SPREAD AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR DISPOSAL OF SPOIL MATERIAL; IT SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
- A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON-SITE DURING CONSTRUCTION ACTIVITIES.
- ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON SITE.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES.

GRADING NOTES

- ALL APPLICABLE CHAPTERS AND SECTIONS FROM THE CITY OF LINCOLN STANDARD SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION SHALL APPLY.
- THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, TOP OF CURB, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE. THE CONTRACTOR SHALL LEAVE THE SITE AT SUBGRADE ELEVATIONS IN PARKING LOT AND BUILDING AREAS.
- THE EXISTING AND PROPOSED FINISHED GROUND SURFACES ARE AVAILABLE ELECTRONICALLY FOR CONTRACTOR VERIFICATION VIA E-MAIL (IN AUTOCAD 2007 FORMAT). THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXISTING GROUND SURFACE ELEVATIONS.
- ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY GRADING WILL TAKE PLACE BEYOND THE PROPERTY LINE.
- ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF GRADING PRIOR TO PLACEMENT OF FILL MATERIAL AND REDISTRIBUTED WITH THE TOPSOIL. A STRIPPING DEPTH OF 6" TO 10" IS ANTICIPATED ON THIS SITE.
- SUFFICIENT TOPSOIL SHOULD BE SALVAGED AND STOCKPILED BY THE CONTRACTOR FOR RE-SREADING IN PERMANENT PLANTING AREAS, INCLUDING PARKING LOT ISLANDS AND GREEN SPACES. STOCKPILING AND RE-SREADING OF TOPSOIL IS NOT A SEPARATE BID ITEM, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE SITE GRADING.
- TOPSOIL SALVAGED AS PART OF THE EXCAVATION SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED TO MATCH ADJACENT GRADES, READY FOR SEEDING. ANY ROCK OR SAND FROM PAVING ACTIVITIES SHALL BE REMOVED PRIOR TO PLACEMENT OF TOPSOIL. ALL EXCESS SOILS, NOT RE-SREAD WITHIN THE PROJECT LIMITS, SHALL BE REMOVED BY THE CONTRACTOR.
- IF THERE ARE TREES ON THIS SITE THAT DO NOT SHOW UP ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE OR ENGINEER FOR REMOVAL OR RELOCATION, IF REQUIRED.
- THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN ONE FOOT VERTICAL IN 3 FEET HORIZONTAL.
- CONTRACTOR SHALL GRADE ALL LOW SPOTS TO DRAIN.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ENGINEER METHODS TO VERIFY POSITIVE DRAINAGE OFF THE BUILDING PADS.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING FOR ALL NATURAL AND PAVED AREAS.
- CONTRACTOR SHALL GRADE TO CONTOURS SHOWN IN GREENSPACES.
- AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES, IF NECESSARY.
- ANY GEOTECHNICAL/TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.
- ONCE STRIPPING AND REMOVAL OPERATIONS ARE COMPLETE, THE CONTRACTOR SHALL PROOFROLL THE AREAS TO RECEIVE STRUCTURAL FILL AS PER THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL INFORM THE GEOTECHNICAL ENGINEER PRIOR TO BEGINNING OF PROOFROLLING. THE GEOTECHNICAL ENGINEER SHALL WITNESS ALL PROOFROLLING.
- FULL TIME OBSERVATION AND TESTING BY A QUALIFIED TESTING LAB OR PROFESSIONAL GEOTECHNICAL ENGINEER SHALL OCCUR TO MONITOR SITE STRIPPING, REMOVAL OF EXISTING FILL/BACKFILL IN THE BUILDING AREA (UNSATURABLE MATERIALS) AND PROOFROLLING AND FILL PLACEMENT.
- IMPORTED FILL MATERIAL SHALL BE A LEAN CLAY WITH A LIQUID LIMIT OF 45 OR LESS AND A PLASTICITY INDEX OF 25 OR LESS FOR STRUCTURAL FILL INCLUDING THE OUTDOOR TENNIS COURTS AND SOCCER FIELD. IMPORTED FILL MATERIAL MAY HAVE A LIQUID LIMIT OF 50 OR LESS AND A PLASTICITY INDEX OF 30 OR LESS FOR STRUCTURAL FILL THREE FEET BELOW THE STRUCTURAL SLAB.

MOLSSON ASSOCIATES
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 P.O. Box 8409
 Lincoln, NE 68501-4609
 TEL: 402.74.6511
 FAX: 402.74.3150
 www.molssonassociates.com

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	10.18.2013	Soccer Field Elevation, Subgrade, Topsoil Areas

GRADING PLAN

UNL SOCCOR AND TENNIS FACILITY

LINCOLN, NEBRASKA

2013

drawn by: TSD
 checked by: TSG
 approved by: TSG
 GNOC by: TSG
 project no.: 013-0429
 drawing no.:
 date: 09.26.2013

SHEET
 3 of 7



LEGEND

 SOIL BORING LOCATION

PROJECT: A13-0429

DRAWN BY: SVJ

REVISIONS: XXX

DATE: 9/13/13



SCALE IN FEET

BORING LOCATION MAP
LINCOLN, NEBRASKA

OLSSON
ASSOCIATES

1111 Lincoln Mall, Suite 111
P.O. Box 84608
Lincoln, NE 68501-4608

TEL: 402.474.6311
FAX: 402.474.5160
www.olssonassociates.com

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1145	APPROX. SURFACE ELEV. (ft): 1145.0		0								
	DEVELOPED ZONE FILL <i>Lean clay (CL)</i> Stiff, dark brown mottled with light brown, dry to moist, mostly lean clay, ALLUVIUM		0.3'								
			2.0'	U 1				13.8	90.4		
	<i>Silt (ML)</i> Stiff, very pale brown, dry to moist, mostly silt, trace fine sand			U 2				13.0	87.8		
1140			5								
	<i>Silty lean clay (CL)</i> Stiff, dark brown to pale brown, very moist, mostly silty lean clay, trace fine sand		6.5'	U 3							
			10	U 4			1.0	33.2	82.4		
1135			11.0'								
	<i>Lean clay (CL)</i> Firm, dark blueish grey, very moist, mostly lean clay, trace fine sand		13.5'								
			15	NR 5							
1130	<i>Poorly graded sand (SP)</i> Very loose, blueish grey, wet, mostly fine to medium sand			SS 5		0-1-1 N=2		22.5			P-200 = 3.0%
			20	SS 6		1-2-2 N=4					
1125			19.5'								

CONTINUED NEXT PAGE

WATER LEVEL OBSERVATIONS	
WD	▽ 17.0 ft
IAD	▽ 13.5 ft after 0 Hrs
AD	▽ Not Performed

OLSSON ASSOCIATES
1111 LINCOLN MALL, SUITE 111
LINCOLN, NEBRASKA 68508

STARTED	5/8/13	FINISHED	5/8/13
DRILL CO.	OLSSON	DRILL RIG	CME 55
DRILLER	JWY	LOGGED BY	KMW
METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME UNL RV Park Levee and Floodplain Study	CLIENT University of Nebraska-Lincoln
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PROJECT NUMBER A13-0429	LOCATION Lincoln, Nebraska
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ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1125	ALLUVIUM Lean clay (CL) Soft, blueish grey, wet, mostly lean clay, trace fine sand	20	20								
	23.5'										
1120	Poorly graded sand (SP) Medium dense, blueish grey, wet, mostly fine to medium sand	25	25	SS 7		4-4-6 N=10					
	28.0'										
1115	Silty sand (SM) Medium dense, blueish grey, wet, mostly fine to medium sand, little silt	30	30	SS 8		4-6-7 N=13		17.5			P-200 = 15.0%
	33.5'										
1110	WEATHERED SANDSTONE Sandy lean clay (CL) Very stiff, yellowish white, wet, mostly lean clay, some fine sand	35	35	SS 9		6-8-14 N=22		15.1			P-200 = 66.2%
	40.0'										
1105	Lean clay with sand (CL) Hard, greyish white, wet, mostly lean clay, little fine sand	40	40	SS 10		46-24-28 N=52					
BASE OF BORING AT 40.0 FEET											

WATER LEVEL OBSERVATIONS	OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED 5/8/13	FINISHED 5/8/13
WD ∇ 17.0 ft		DRILL CO. OLSSON	DRILL RIG CME 55
IAD ∇ 13.5 ft after 0 Hrs		DRILLER JWY	LOGGED BY KMW
AD ∇ Not Performed		METHOD CONTINUOUS FLIGHT AUGER	

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1145	APPROX. SURFACE ELEV. (ft): 1145.0		0								
	ASPHALT FILL 0.3' 0.5'										
	<i>Lean clay (CL) Very stiff, light grey to yellowish brown, dry to moist, mostly lean clay, trace fine to coarse sand, iron</i>			U 1			1.4	12.2	113.9		
	<i>Lean clay (CL) Very stiff, dark grey, dry to moist, mostly lean clay, trace fine sand</i>			U 2				22.6	94.6		
1140	<i>Lean clay (CL) Stiff, dark greyish brown, moist, mostly lean clay, trace fine sand</i>			U 3			1.8	24.4	90.3		
	ALLUVIUM 8.0'			U 4			0.9	26.3	82.9		
1135	<i>Lean clay (CL) Firm, light grey to grey, very moist, mostly lean clay, trace fine sand</i>			U 5				15.8	103.5		
1130	<i>Lean clay (CL) Firm, light grey to grey, moist, mostly lean clay, trace fine sand</i>										
	16.0'										
1125	<i>Poorly graded sand with silt (SP/SM) Very loose, grey, wet, mostly fine to coarse sand, few silt</i>			SS 6		2-1-2 N=3		22.4			P-200 = 5.4%

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WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	4/16/13	FINISHED	4/16/13
WD	▽ 18.5 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ Not Encountered		DRILLER	AMA	LOGGED BY	IJS
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1125	ALLUVIUM		20								
	<i>Poorly graded sand with silt (SP/SM) Very loose, light grey, wet, mostly fine to coarse sand, few silt</i>										
1120			24.5'	SS 7		3-2-0 N=2		18.9			P-200 = %
	<i>Lean clay with sand (CL) Soft, light grey, wet, mostly lean clay, little fine sand</i>										
1115			30	SS 8		1-1-4 N=5		35.6			P-200 = 83.8%
	<i>Lean clay with sand (CL) Soft, light grey, wet, mostly lean clay, little fine sand</i>										
			34.0'								
1110			35.0'	SS 9							
	<i>Poorly graded sand (SP) Very dense, pale brown, wet, mostly fine to medium sand, trace fine gravel</i>										
	<i>Lean clay (CL) Very stiff, yellowish brown, wet, mostly lean clay, trace fine sand</i>										
1105			40.0'	SS 10							
	<i>Lean clay with sand (CL) Very stiff, yellowish brown, wet, mostly lean clay, trace fine sand</i>										
BASE OF BORING AT 40.0 FEET											

WATER LEVEL OBSERVATIONS			OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508				STARTED	4/16/13	FINISHED	4/16/13
WD	▽	18.5 ft					DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽	Not Encountered					DRILLER	AMA	LOGGED BY	IJS
AD	▽	Not Performed					METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME UNL RV Park Levee and Floodplain Study	CLIENT University of Nebraska-Lincoln
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PROJECT NUMBER A13-0429	LOCATION Lincoln, Nebraska
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ELEVATION (ft)	MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	APPROX. SURFACE ELEV. (ft): 1143.5	0								
	DEVELOPED ZONE FILL <i>Lean clay (CL)</i> <i>Stiff, dark grey, moist, mostly lean clay, trace fine sand</i>	0.3'	U 1				24.4	95.4		
1140	ALLUVIUM <i>Silty lean clay (CL/ML)</i> <i>Firm, dark greenish grey, very moist, mostly silty lean clay, trace fine sand</i>	2.5'	U 2							
	<i>Silty lean clay (CL/ML)</i> <i>Firm, dark greenish grey, very moist, mostly silty lean clay, trace fine sand</i>	5	U 3				29.0	88.3		
1135	<i>Silty lean clay (CL/ML)</i> <i>Firm, dark greenish grey, very moist, mostly silty lean clay, trace fine sand</i>	10	U 4				35.1	89.0		
	<i>Silty sand (SM)</i> <i>Medium dense, light grey mottled with dark grey, moist, mostly fine sand, little silt</i>	11.5'								
1130	<i>Lean clay (CL)</i> <i>Firm, dark grey, wet, mostly lean clay, few silt, trace fine sand</i>	12.5'	U 5			0.5	38.2	82.4		
	<i>Silty lean clay (CL/ML)</i> <i>Soft, dark grey, wet, mostly silty lean clay, trace fine sand</i>	18.0'								
1125		20	NR 6							

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WATER LEVEL OBSERVATIONS WD ∇ 20.0 ft IAD ∇ 14.7 ft after 0 Hrs AD ∇ Not Performed	OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>STARTED</td> <td style="text-align: center;">5/7/13</td> <td>FINISHED</td> <td style="text-align: center;">5/7/13</td> </tr> <tr> <td>DRILL CO.</td> <td style="text-align: center;">OLSSON</td> <td>DRILL RIG</td> <td style="text-align: center;">CME 55</td> </tr> <tr> <td>DRILLER</td> <td style="text-align: center;">JWY</td> <td>LOGGED BY</td> <td style="text-align: center;">CMM</td> </tr> <tr> <td>METHOD</td> <td colspan="3" style="text-align: center;">CONTINUOUS FLIGHT AUGER</td> </tr> </table>	STARTED	5/7/13	FINISHED	5/7/13	DRILL CO.	OLSSON	DRILL RIG	CME 55	DRILLER	JWY	LOGGED BY	CMM	METHOD	CONTINUOUS FLIGHT AUGER		
STARTED	5/7/13	FINISHED	5/7/13															
DRILL CO.	OLSSON	DRILL RIG	CME 55															
DRILLER	JWY	LOGGED BY	CMM															
METHOD	CONTINUOUS FLIGHT AUGER																	

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ALLUVIUM <i>Silty lean clay (CL/ML) Very soft, dark grey, wet, mostly silty lean clay, trace fine sand</i>		20	SS 6		0-0-0 N=0					
1120	<i>Poorly graded sand (SP) Very loose, light grey, wet, mostly fine to medium sand, trace silt</i>		22.5'	SS 7		0-1-2 N=3		20.7			P-200 = 3.3%
1115	<i>Poorly graded sand (SP) Very loose, light grey, wet, mostly fine to coarse sand, trace silt</i>		30.0'	SS 8		0-0-1 N=1					
1110	WEATHERED SANDSTONE <i>Poorly graded sand (SP) Medium dense, yellowish white, wet, mostly fine to medium sand</i>		34.5'	SS 9		8-13-24 N=37		13.5			P-200 = 67.3%
1105	WEATHERED SHALE <i>Fat clay (CH) Hard, grey, very moist, mostly fat clay</i>		40.0'	SS 10		20-45-35 N=80					
BASE OF BORING AT 40.0 FEET											

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	5/7/13	FINISHED	5/7/13
WD	▽ 20.0 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ 14.7 ft after 0 Hrs		DRILLER	JWY	LOGGED BY	CMM
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME UNL RV Park Levee and Floodplain Study	CLIENT University of Nebraska-Lincoln
PROJECT NUMBER A13-0429	LOCATION Lincoln, Nebraska

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	APPROX. SURFACE ELEV. (ft): 1142		0								
	ASPHALT FILL 0.3' - 0.6'										
1140	Lean clay (CL) Firm, yellowish brown, moist, mostly lean clay, trace fine to coarse sand			U 1	CL			20.5	101.4	24/10	
	Lean clay (CL) Firm, dark brown, moist, mostly lean clay, trace fine sand, iron			U 2				27.0	95.3		
	ALLUVIUM		5								
	Lean clay (CL) Soft, brown, moist, mostly lean clay, little fine sand			U 3							
1135	Poorly grade sand (SP) Loose, light brown, moist, mostly fine to coarse sand			U 4							P-200 = 34.9%
	Lean clay (CL) Soft, brown, moist, mostly lean clay							13.7			
	Clayey sand (SC) Loose, brown, moist, mostly fine to coarse sand, little lean clay										
1130	Lean clay with sand (CL) Soft, brown, moist, mostly lean clay, some fine sand										
	Poorly graded sand (SP) Loose, light brown, moist, mostly fine to coarse sand			SS 5		8-5-4 N=9		6.2			P-200 = 2.5%
	Poorly graded sand (SP) Loose, yellowish brown, moist, mostly fine to coarse sand										
1125											
	Lean clay with sand (CL) Stiff, grey, wet, mostly lean clay, some fine sand			SS 6		8-4-8 N=12		20.1			
			20.0'								

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WATER LEVEL OBSERVATIONS WD ∇ 16.0 ft IAD ∇ Not Encountered AD ∇ Not Performed	OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED 4/16/13 FINISHED 4/16/13 DRILL CO. OLSSON DRILL RIG CME 55 DRILLER AMA LOGGED BY IJS METHOD CONTINUOUS FLIGHT AUGER
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PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1120	ALLUVIUM <i>Lean clay with sand (CL)</i> <i>Very stiff, blueish grey, wet, mostly lean clay, some fine sand</i>		20								
			24.5'	SS 7		2-6-10 N=16					
1115	<i>Poorly graded sand (SP)</i> <i>Medium dense, blueish grey, wet, mostly fine to medium sand</i>		25								
			30.0'	SS 8		4-7-9 N=16		11.5			P-200 = 4.9%
1110	<i>Lean clay (CL)</i> <i>Very stiff, blueish and greyish yellow, wet, mostly lean clay</i>		30								
			33.5'								
1105	<i>Silty sand (SM)</i> <i>Dense, greenish yellow, wet, mostly fine to medium sand, little silt</i>		35			5-13-18 N=31		18.8			P-200 = 69.2%
			38.0'								
	<i>Poorly graded sand (SP)</i> <i>Very dense, yellowish brown, wet, mostly fine to medium sand</i>		40			45-55-100 N=155					
			40.0'	SS 10							

BASE OF BORING AT 40.0 FEET

WATER LEVEL OBSERVATIONS

WD 16.0 ft
 IAD Not Encountered
 AD Not Performed

OLSSON ASSOCIATES
1111 LINCOLN MALL, SUITE 111
LINCOLN, NEBRASKA 68508

STARTED	4/16/13	FINISHED	4/16/13
DRILL CO.	OLSSON	DRILL RIG	CME 55
DRILLER	AMA	LOGGED BY	IJS
METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	APPROX. SURFACE ELEV. (ft): 1141.0		0								
1140	DEVELOPED ZONE FILL <i>Lean clay (CL)</i> <i>Stiff, dark brown mottled with pale brown, moist, mostly lean clay, trace fine sand</i>		0.3'	U 1				19.1	96.5		
	ALLUVIUM <i>Silt (ML)</i> <i>Stiff, very pale brown mottled with yellowish and dark brown, dry to moist, mostly silt</i>		3.0'	U 2				17.3	97.3		
1135	<i>Lean clay (CL)</i> <i>Soft, dark brownish grey, moist, mostly lean clay, trace fine sand</i>		6.0'	U 3							
	<i>Lean clay (CL)</i> <i>Very soft, dark blueish grey, very moist, mostly lean clay, trace fine sand</i>		8.5'	U 4				39.7	85.0		
1130											
	<i>Lean clay (CL)</i> <i>Very soft, dark blueish grey, wet, mostly lean clay, few fine sand</i>		15	SS 5		0-0-0 N=0		32.1			P-200 = 86.6%
1125											
	<i>Silty sand (SM)</i> <i>Very loose, blueish grey, wet, mostly fine to medium sand, little silt</i>		18.0'	SS 6		0-1-2 N=3		24.7			P-200 = 18.9%
	CONTINUED NEXT PAGE		20								

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	5/8/13	FINISHED	5/8/13
WD	▽ 18.0 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ 12.8 ft after 0 Hrs		DRILLER	JWY	LOGGED BY	KMW
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1120	ALLUVIUM		20								
			23.5'								
	<i>Poorly graded sand with silt (SP/SM) Loose, blueish grey, wet, mostly fine to medium sand, few silt, trace fine gravel</i>		25	SS 7		3-3-5 N=8					
1115											
	<i>Poorly graded sand with silt (SP/SM) Medium dense, blueish grey, wet, mostly fine to medium sand, few silt, trace fine gravel</i>		30	SS 8		3-4-6 N=10		15.2			P-200 = 8.3%
1110											
			34.5'								
	WEATHERED SANDSTONE		35	SS 9		5-8-13 N=21					
1105	<i>Silty sand (SM) Medium dense, blueish grey, wet, mostly fine sand, little silt</i>										
	<i>Silty sand (SM) Medium dense, blueish grey, wet, mostly fine sand, little silt</i>		40	SS 10		5-10-13 N=23		22.8			P-200 = 19.7%
			40.0'								
BASE OF BORING AT 40.0 FEET											

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	5/8/13	FINISHED	5/8/13
WD	▽ 18.0 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ 12.8 ft after 0 Hrs		DRILLER	JWY	LOGGED BY	KMW
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1140	ASPHALT FILL APPROX. SURFACE ELEV. (ft): 1140		0								
	Lean clay (CL) Firm, light grey to grey, very moist, mostly lean clay, trace fine sand		0.3'	U 1				30.2	89.7		
	ALLUVIUM		4.0'	U 2				33.6	85.6		
1135	Fat clay with sand (CH) Firm, light grey to grey, very moist, mostly lean clay, some fine sand			U 3			0.5	45.1	73.8		
	Fat clay with sand (CH) Firm, light grey to grey, very moist, mostly lean clay, some fine sand			U 4	CH					58/37	
1130				U 4A							
			14.0'	U 5							
1125	Poorly graded sand (SP) Loose, light grey, wet, mostly fine to coarse sand		15								
	Poorly graded sand (SP) Medium dense, light grey, wet, mostly fine to coarse sand			SS 6		6-6-5 N=11		20.7			P-200 = 3.0%
1120			20.0'								

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WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	4/16/13	FINISHED	4/16/13
WD	▽ 13.0 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ Not Encountered		DRILLER	AMA	LOGGED BY	IJS
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
1120	ALLUVIUM		20								
			22.0'								
	<i>Lean clay (CL) Stiff, dark brown, wet, mostly lean clay, trace fine sand</i>		24.0'								
1115	<i>Poorly graded sand (SP) Loose, greenish grey, wet, mostly fine to medium sand</i>		25	SS 7		3-3-5 N=8		24.8			P-200 = 31.0%
1110	<i>Poorly graded sand (SP) Medium dense, greenish grey, wet, mostly fine to medium sand, trace fine gravel</i>		30	SS 8		3-4-6 N=10		17.5			P-200 = 2.4%
			33.5'								
1105	<i>Lean clay (CL) Very stiff, greenish grey, wet, mostly lean clay, trace fine sand</i>		35	SS 9		5-8-13 N=21					
1100	<i>Lean clay (CL) Very stiff, greenish grey, wet, mostly lean clay, trace fine sand</i>		40	SS 10		5-10-13 N=23					
			40.0'								
BASE OF BORING AT 40.0 FEET											

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	4/16/13	FINISHED	4/16/13
WD	▽ 13.0 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ Not Encountered		DRILLER	AMA	LOGGED BY	IJS
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME UNL RV Park Levee and Floodplain Study	CLIENT University of Nebraska-Lincoln
PROJECT NUMBER A13-0429	LOCATION Lincoln, Nebraska

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	APPROX. SURFACE ELEV. (ft): 1139.0		0								
	DEVELOPED ZONE ALLUVIUM		0.3'								
	Lean clay (CL) Stiff, brown, dry to moist, mostly lean clay, trace fine sand		0.8'	U 1				10.0	98.2		
1135	Silt (ML) Firm, light brown, dry to moist, mostly silt, trace fine sand										
			4.5'	U 2			0.8	20.3	93.5		
	Lean clay (CL) Firm, greyish brown, moist, mostly lean clay, few fine sand		7.0'	U 3							
	Poorly graded sand (SP) Loose, light grey, moist, mostly fine to coarse sand		8.0'								
1130	Lean clay (CL) Firm, dark brown, moist, mostly lean clay		9.5'	U 4				24.6	95.1		
	Poorly graded sand (SP) Loose, light grey, moist, mostly fine to coarse sand		11.0'								
	Lean clay (CL) Firm, dark grey, moist, mostly lean clay		14.0'	U 5				24.6			P-200 = 12.0%
1125	Poorly graded sand with silt (SP/SM) Loose, light grey, moist, mostly fine to coarse sand, few silt		15								
			20.0'	SS 6		4-4-5 N=9					

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WATER LEVEL OBSERVATIONS	OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	4/16/13	FINISHED	4/16/13
WD ∇ 16.5 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD ∇ 10.8 ft after 0 Hrs		DRILLER	AMA	LOGGED BY	IJS
AD ∇ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		

PROJECT NAME: **UNL RV Park Levee and Floodplain Study** CLIENT: **University of Nebraska-Lincoln**

PROJECT NUMBER: **A13-0429** LOCATION: **Lincoln, Nebraska**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE RQD	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ALLUVIUM		20								
1115	<i>Silty sand (SM) Medium dense, blueish grey, wet, mostly fine to medium sand, little silt, trace fine gravel</i>		25	SS 7		0-5-6 N=11		15.6			P-200 = 20.9%
1110	<i>Lean clay (CL) Very stiff, greenish and greyish brown, wet, mostly lean clay, trace fine sand</i>		30	SS 8		3-6-11 N=17					
1105	<i>Poorly graded sand (SP) Dense, greenish yellow, wet, mostly fine to medium sand</i>		35	SS 9		3-16-20 N=36					
1100	<i>Silty sand (SM) Medium dense, greenish yellow, wet, mostly fine to medium sand, some silt</i>		40	SS 10		3-6-17 N=23		20.4			P-200 = 33.5%
BASE OF BORING AT 40.0 FEET			40								

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1111 LINCOLN MALL, SUITE 111 LINCOLN, NEBRASKA 68508	STARTED	4/16/13	FINISHED	4/16/13
WD	▽ 16.5 ft		DRILL CO.	OLSSON	DRILL RIG	CME 55
IAD	▽ 10.8 ft after 0 Hrs		DRILLER	AMA	LOGGED BY	IJS
AD	▽ Not Performed		METHOD	CONTINUOUS FLIGHT AUGER		