SCANNED

MAR 24 2017

HS001416

Application to Alter or Repair an Onsite Wastewater Treatment System

The applicant is applying for a permit to: ☒ **ALTER** ☐ **REPAIR** an existing Onsite Wastewater Treatment System, and agrees to comply with LMC 24.38 or County Resolution 02-0030.

1. **Street Address (No Rural Route):** 6001 Bluff Road

   Legal Description of Property: Township: 11 Range: 7 Section: 21

   Block --- Lot --- SubDivsion --- Add: ---

   ***Parcel ID** 18 - 21 - 100 - 003 - 000 (i.e. 99-99-999-999-999)

2. **Property use:** ☐ Residential ☒ Commercial ☒ Other use (Describe: Sludge Holding Pad)
   Number of bedrooms_____ Does the system have a: ☐ Garbage Grinder ☐ Large Capacity Tub

3. **Type of Present Individual Disposal System** ☐ septic system ☒ lagoon ☐ other

4. **Description of proposed alteration or repair:**
   Repair existing west cell (commercial) with clay liner. Enlarge east cell (sludge holding pad) and and install synthetic liner.

5. **Current Type of Lateral**- --- **Current Linear Ft. Of Lateral** - ---

   Current Tank Gallonage- ---

6. Print Name Justin Stark Address 601 P Street, Lincoln, NE 68508 Phone: 402-474-6311

   Applicant Signature: Justin R Stark

649
4303

Please contact LLCHD for the current permit fee for this application
Fee must be included before the application will be processed. Incomplete information will delay processing.

HEALTH DEPARTMENT USE ONLY

☒ Municipal Code 24.38 ☐ County Resolution Number 02-30

Date received 3/27/17 REVIEW: ☒ Approved ☐ Disapproved By:

Comments (if any): * See paper / email trail

Site visits
Date ___/___/___ By_____
Date ___/___/___ By_____

Installation final written approval
Date 8/11/17 By

Return application to:
Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street, Lincoln, NE 68510
Phone: (402) 441-8643

- fence installed 8/1/17

Business Office Use Only
Received: Date: 3/24/17 Amount $215.00 Check No. 219108 Initials SB

Revised 4/8/13

COPY

NEBRASKA

Good Life. Great Environment.

DEPT. OF ENVIRONMENTAL QUALITY

Ryan Boyer
Senior Engineering Specialist
City of Lincoln
Lincoln, NE 68508

FEB 9 2017

RE: Wastewater Works Construction Permit
Bluff Road Landfill, Sludge Pad Lagoon New WWTF
Lancaster County
NDEQ ID: 58617

CONSTRUCTION PERMIT NO.: 16-0188

Dear Mr. Boyer,

Pursuant to Neb. Rev. Stat. Sec. 81-1506 (2) (Reissue 1994), documents describing this project have been approved and stamped accordingly. One set of construction documents is being retained for the Department's records. The remaining sets are being returned to the **submitting engineer** for distribution, including a construction certification card to be returned to the Department.

Compliance with wastewater design standards and regulations was the primary consideration in the review of this project. **This construction permit does not supersede any required local approvals or substitute for other required Department permits, such as for storm water construction or for construction dewatering.** This permit does not release the owner from the responsibility of providing an operable facility. If significant changes, as described in Title 123, Chapter 9.001 are made during construction, change orders must be submitted to the Department, and as-built plans are required. Please reference the State construction permit number in all submittals.

Pursuant to a Delegation Memorandum dated August 22, 2016 and signed by the Director, the undersigned hereby executes this document on behalf of the Director. **If you have questions, please contact Charles Duerschner, P.E., Supervisor, Technical Assistance Unit, at (402) 471-4206.**

Sincerely,

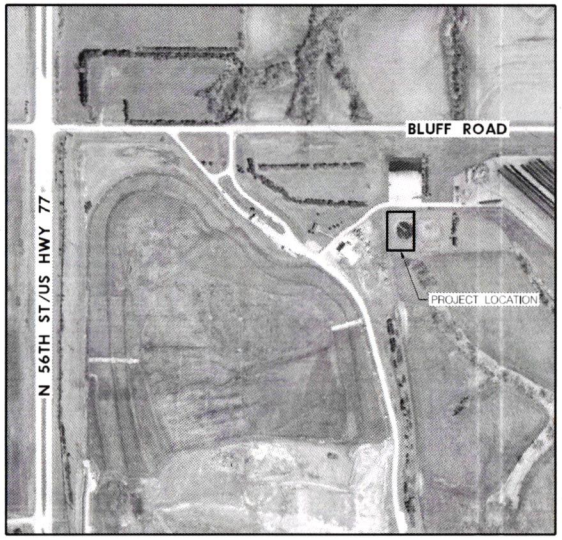
Shelley Schneider

Shelley Schneider
Water Permits Division Administrator

SS/cad/dab
Cc: Justin Stark, P.E., Olsson Associates, 601 'P' Street, PO Box 200, Lincoln, NE 68501

Jim Macy, Director
Department of Environmental Quality
P.O. Box 98922
1200 N Street, Suite 400
Lincoln, Nebraska 68509-8922
OFFICE 402-471-2186 FAX 402-471-2909
ndeq.moreinfo@nebraska.gov
deq.ne.gov

EXECUTIVE ORDER NO. 088977
BLUFF ROAD LANDFILL LAGOON IMPROVEMENTS
BLUFF ROAD EAST OF US HWY 77
CITY OF LINCOLN, NE (2016)
OA PROJECT #016-0150



N.T.S.

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	1
Date: 11/29/2016	Drawn: PEU
Horiz. Scale: N.T.S.	Designed: MJD
Vert. Scale:	Approved: JRS

000-A-00

SHT NO.	SHEET INDEX
1	COVER
2	GENERAL NOTES AND SUMMARY OF QUANTITIES
3	GENERAL NOTES
4	PHASE I DETAILS
5 - 6	PHASE II DETAILS
7	HORIZONTAL AND VERTICAL CONTROL
8	CONSTRUCTION PHASING
9 - 10	SEDIMENT AND EROSION CONTROL
11 - 12	CONSTRUCTION AND REMOVAL
13 - 14	WASTE WATER LAGOON PLAN

R1 11-29-16 REVISIONS

PROJECT CONTACT

OLSSON ASSOCIATES
PROJECT MANAGER
601 P STREET, SUITE 200
LINCOLN, NE 68508
ATTN: JUSTIN STARK
OFFICE....(402) 474-6311

LINCOLN SOLID WASTE OPERATIONS
SENIOR ENGINEERING SPECIALIST
5101 N 48TH ST
LINCOLN, NE 68504
ATTN: RYAN BOYER
OFFICE....(402) 405-5578

LINCOLN WASTEWATER SYSTEM
SUPERINTENDENT OF WPC FACILITIES
2400 THERESA STREET
LINCOLN, NE 68521
ATTN: STEVE CRISLER
OFFICE....(402) 441-7966
CELL.....(402) 429-0090

netcall.com
Nebraska811
Know what's below.
Call before you dig.

PRIOR TO CONSTRUCTION:

CALL 1-800-331-5666 OR 811 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLEVISION AND CITY OF LINCOLN UTILITIES.

NOTE: EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO EXACTLY LOCATE AND PROTECT EACH EXISTING UTILITY BEFORE AND DURING ACTUAL CONSTRUCTION.

PROFESSIONAL ENGINEER
JUSTIN R. STARK
E-13167
11/29/16
STATE OF NEBRASKA

COVER
000-A-00

GENERAL NOTES:

1. EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. NOT ALL LOCATIONS, CONFIGURATIONS AND ELEVATIONS OF EXISTING UNDERGROUND POWER, TELEPHONE OR FIBER OPTIC CABLE DUCTWAYS, MANHOLES, SYSTEMS, SEPTIC SYSTEMS AND WATER, GAS AND SEWER SERVICE LINES ARE INDICATED. OTHER UTILITIES AND STRUCTURES MAY BE PRESENT.

2. UNDERGROUND LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES AS FURNISHED BY THE OWNER OF EACH UTILITY OR STRUCTURE ARE APPROXIMATE. PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD IN ADVANCE OF EXCAVATING, TRENCHING OR TUNNELING, BY CONTACTING ALL UTILITIES AND OTHER AGENCIES AND BY PROSPECTING, IF REQUIRED, IN ORDER TO LOCATE UNDERGROUND UTILITIES AND STRUCTURES AND ADJUSTMENT OF ALIGNMENT AND GRADE ARE COVERED IN THE SPECIFICATIONS.

3. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES THROUGH THE USE OF POT-HOLING EXCAVATION OR OTHER MEANS PRIOR TO CONSTRUCTION ON THIS PROJECT.

4. NOTIFICATION OF UTILITIES AND OTHER AGENCIES SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT OR RELOCATION OF ANY UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE OR OVERHEAD) REQUIRED FOR INSTALLATION OF THE TRUNK SEWER SHALL BE COORDINATED WITH THE OWNER OF EACH UTILITY BEFORE CONSTRUCTION IS STARTED.

5. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, AND SPECIAL SURFACE RESTORATION REQUIREMENTS AT CERTAIN LOCATIONS MAY BE INDICATED ON THE DRAWINGS TO BRING CONTRACTORS ATTENTION TO SENSITIVE AREAS. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES OF PROTECTION AND RESTORATION AT LOCATIONS AS REQUIRED BY HIS CONSTRUCTION OPERATIONS AND AS DIRECTED BY THE ENGINEER.

6. HORIZONTAL STATIONING ALONG THE SEWER ALIGNMENT IS FOR LEVEL LINE MEASUREMENT. ACTUAL PIPE LENGTH SHALL BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.

7. DEFLECTIONS FROM A STRAIGHT PIPE OR GRADE ARE TO BE MADE WITH FITTINGS OR WITHIN MANHOLES OR A COMBINATION OF THESE METHODS TO CONFORM TO THE ALIGNMENT AND PROFILE INDICATED ON THE DRAWINGS AS SPECIFIED.

8. APPROXIMATE LOCATIONS OF TEST HOLES TAKEN ALONG THE PIPELINE ARE SHOWN ON THE DRAWINGS. ACTUAL TEST HOLE LOCATIONS AND THE FINDINGS OF THE GEOTECHNICAL INVESTIGATIONS ARE COVERED IN THE GEOTECHNICAL REPORT IDENTIFIED IN THE CONTRACT DOCUMENTS.

9. STATIONING OF THE MANHOLES ARE BASED ON THE STATION THAT FALLS AT THE CENTER OF THE MANHOLE.

10. CONTRACTOR SHALL AVOID PLACING EXCESSIVE AMOUNTS OF EXCAVATED OR EMBEDMENT MATERIALS ABOVE OTHER EXISTING PIPELINES IN ORDER TO AVOID DAMAGING THESE FACILITIES.

11. THESE DRAWINGS REFERENCE THE LINCOLN STANDARD PLANS 2011 AVAILABLE AT THE CITY OF LINCOLN'S WEB SITE: WWW.LINCOLN.NE.GOV/CITY/WORKS/LNGR/CODCNST/STANDARD/LSP/INDEX.HTM OR AT THE CITY ENGINEER'S OFFICE.

12. CONTRACTOR SHALL UTILIZE THE "CITY OF LINCOLN STANDARD SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION - 2007" FOR CONSTRUCTION REQUIREMENTS UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS FOR THIS PROJECT.

13. CONTRACTOR SHALL MINIMIZE CONSTRUCTION IMPACTS TO THE WETLANDS AREAS AS A MINIMUM, CONTRACTOR SHALL LIMIT EXCAVATION AND DISTURBANCE BY USE OF A TRENCH BOX OR OTHER METHODS ACCEPTABLE TO ENGINEER. THE TOP ONE FOOT OF SOIL WILL BE SIDE CAST AND PUT BACK AS TOPSOIL TO PRE-CONSTRUCTION CONTOURS. PRESERVE EXISTING TREES AND VEGETATION TO THE GREATEST EXTENT POSSIBLE.

14. IF SOD WILL BE DISTURBED WITHIN 5 FEET OF POWER POLES CONTRACTOR SHALL CONTACT UTILITY OWNER TO SUPPORT THE POLES DURING CONSTRUCTION ACTIVITIES. UTILITY OWNER SHALL BE NOTIFIED A MINIMUM OF SIX WEEKS IN ADVANCE OF THE WORK AND A CROSS SECTION OF THE CONTRACTOR'S METHOD SHALL BE PROVIDED TO UTILITY OWNER FOR THEIR USE.

15. VERTICAL CONTROL IS BASED ON NAVD 1988. HORIZONTAL CONTROL IS BASED ON SECTION AND PROPERTY CORNERS AND FIELD TIES ESTABLISHED BY OLSSON ASSOCIATES (OA) AND TIED INTO THE LANCASTER COUNTY GRID SYSTEM.

16. CONTRACTOR SHALL RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION TO THEIR ORIGINAL LOCATION AND CONDITION. STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT SIDEWALKS, PAVING, BRICKS, FENCING, RETAINING WALLS, ETC. CROSSED BY THE SANITARY SEWER ARE NOT AS INDICATED IN PROFILE.

17. CONTRACTOR SHALL REPLACE EXISTING PIPE CULVERTS THAT ARE REMOVED TO INSTALL THE SANITARY SEWER WITH NEW PIPE CULVERTS OF THE SAME SIZE, MATERIAL AND CONSTRUCTION AT THE SAME LOCATION AND INVERT ELEVATION AS THOSE THAT WERE REMOVED, AND SHAPE THE DITCH TO DRAIN WITH THE REPLACED CULVERT. PROVIDE ANY TEMPORARY CULVERTS THAT MAY BE REQUIRED FOR CONTRACTOR'S OPERATIONS. COORDINATE REMOVAL AND REPLACEMENT OF ANY CULVERTS WITHIN PUBLIC RIGHT-OF-WAY WITH THE REGULATING AGENCY.

18. EXISTING TREES AND PLANTS ARE INTENDED TO BE SAVED UNLESS OTHERWISE NOTED. PROTECTION OR REMOVAL OF TREES, PLANTS AND LANDSCAPING IS TO BE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED, INCLUDING COMPLYING WITH THE CONDITIONS FOR EASEMENTS BETWEEN OWNER AND PROPERTY OWNER.

19. ALL EXISTING SURVEY BENCHMARKS, MONUMENTS, PROPERTY PINS AND RIGHT-OF-WAY MARKERS ARE TO BE PRESERVED OR IF DISTURBED OR REQUIRED TO BE MOVED DURING CONSTRUCTION ARE TO BE RESTORED.

20. THERE ARE SEVERAL TYPES OF PIPE WHICH MAY BE SELECTED BY THE CONTRACTOR FOR USE ON THIS PROJECT. THE CONTRACTOR SHALL USE ONE TYPE OF PIPE TO CONSTRUCT THE PROJECT. NO EXCEPTIONS.

21. CONTRACTOR SHALL STOCKPILE EXCAVATE AND STOCKPILE TOPSOIL AFTER PIPE INSTALLATION AND BACKFILL. TOPSOIL SHALL BE REINSTALLED.

22. STORAGE OF PIPE AND MATERIALS SHALL BE ACCEPTABLE TO OWNER AND ENGINEER AND IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS. STAGING AREA FOR CONTRACTOR IS STILL IN GENERAL LAS MINAS SHALL NOT BE USED FOR LONG TERM STORAGE OF PIPING.

GENERAL NOTES, cont'd:

23. FIELD VERIFY PRECISE LOCATION, ELEVATION AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES WITH EXISTING SEWER MAINS BASED UPON FIELD CONDITIONS, INCLUDING EXPOSING EXISTING PIPING PRIOR TO FABRICATING NEW PIPING. PROVIDE FITTINGS, ADAPTERS OR OTHER FITTINGS AS REQUIRED. COORDINATE CONSTRUCTION WITH OWNER.

24. CONTRACTOR SHALL COORDINATE WITH BLACK HILLS ENERGY AS NECESSARY WHEN WORKING AROUND NATURAL GAS SERVICES.

25. CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH THE PROPERTY OWNER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND HE SHALL MOVE THE MATERIAL AT HIS OWN COST IF THE OWNER SO DIRECTS.

26. FENCES, SIGNS OR OTHER IMPROVEMENTS REQUIRED TO BE DISTURBED OR REMOVED TO PERMIT CONSTRUCTION SHALL BE RESTORED OR REPLACED IN THE SAME LOCATION AND IN A CONDITION AS GOOD OR BETTER THAN IN WHICH THEY WERE FOUND. NO COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR REMOVAL AND REPLACEMENT OF FENCES, SIGNS OR OTHER IMPROVEMENTS ON PRIVATE PROPERTY. THIS WORK SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE CONTRACTOR.

27. BEFORE FINAL COMPLETION OF THIS PROPOSED WORK, ALL ROADWAYS, SLOPES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

ABBREVIATIONS

AB	ANCHOR BOLT
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ALUM	ALUMINUM
APPROX.	APPROXIMATE(LY)
ARV	AIR RELEASE VALVE
ARVV	AIR RELEASE AND VACUUM RELIEF VALVE
BC	BRIDGE CRANE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLK	BLOCK
BO	BLOW-OFF
BV	BALL VALVE
CHKD. PL.	CHECKERED PLATE
CI	CAST IRON
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(ED)(OUS)(ATION)
CONTR	CONTRACTOR
CPLG	COUPLING
CTR(S)	CENTER(S)
CU	CUBIC
CU YD	CUBIC YARD
CV	CHECK VALVE
CW	COLD WATER
DEG	DEGREE
DET	DETAIL
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
E	EAST, ELECTRICAL
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL(AR)
FC	FLOW CONTROL
FCA	FLANGED COUPLING ADAPTER
FD	FLOOR DRAIN
FES	FLARED END SECTION
FIN	FINISH
FL	FLOW LINE
FLG	FLANGE
FLR	FLOOR
FT	FOOT
FTG	FITTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HA	HAND AUGER BORE
HDR	HEADER
HMC	HARNESSED MECHANICAL COUPLING
HMJ	HARNESSED MECHANICAL JOINT
HORIZ	HORIZONTAL
HR	HOUR, HANDRAIL
HSS	HOLLOW STRUCTURAL SECTION
HUH	HYDRONIC UNIT HEATER
HWH	HOT WATER
HW	HOT WATER
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
ID	INSIDE DIAMETER
IN	INCHES
INCR	INCREASE
INSTALL	INSTALLATION
INV	INVERT
LF	LINEAR FOOT
LIN	LINEAR
LS	LIQUID SWITCH LIMIT SWITCH
LSP	LINCOLN STANDARD PLANS

MATL	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL COUPLING
METH	METHOD
MFR(S)	MANUFACTURER(S)
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MO	MOTOR OPERATED
N	NORTH
N/A	NOT APPLICABLE
NO.(S)	NUMBER(S)
NOM	NOMINAL
NPW	NON-POTABLE WATER
N.T.S.	NOT TO SCALE
OD	OUTSIDE DIAMETER
OHC	OVERHEAD CABLE
OHL	OVERHEAD ELECTRIC
OPER	OPERATING
OPNG	OPENING
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PERMANENT EASEMENT
PL	PLATE
PLCS	PLACES
PR	PAIR
PS	PIPE SUPPORT
PW	POTABLE WATER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER, REDUCING
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISED, REVERSED
RFG	ROOFING
ROW	RIGHT-OF-WAY
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHEET	SHEET
SIM	SIMILAR
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SSC	STAINLESS STEEL C CHANNEL
SSI	STAINLESS STEEL I CHANNEL
STA	STATION
STD	STANDARD
STL	STEEL
STRUC	STRUCTURE
SV	SHUTOFF VALVE
SW	SERVICE WATER
SYS	SYSTEM
TERM	TERMINATION
TOC	TOP OF CONCRETE
TYP	TYPICAL
UF	UNDERGROUND ELECTRIC
UFO	UNDERGROUND FIBER
UG	UNDERGROUND GAS LINE
UH	UNIT HEATER
USA	UNDERGROUND SANITARY SEWER LINE
UST	UNDERGROUND STORM SEWER LINE
UT	UNDERGROUND TELEPHONE LINE
UW	UNDERGROUND WATER LINE
V	VOLT
VERT	VERTICAL
VTR	VENT THROUGH ROOF
W	WEST, WIDE
W/	WITH
WF	WALL FITTING
W/O	WITHOUT
WS	WATER STOP
x	BY, TIMES
&	AND
@	AT
℄	CENTERLINE
∆	DEFLECTION ANGLE
#	NUMBER
%	PERCENT

BID SECTION I QUANTITIES

01.00001	MOBILIZATION	LS	1
01.04001	PAVEMENT & SIDEWALK REMOVAL	CY	29.9
01.06001	TYPE 'B' SAWING	LF	173
2.01001	GEN. CLEARING & GRUBBING	LS	1
2.04001	REM. & RESET FENCE	LF	50
2.05001	EXCAVATION	CY	350
2.08001	EARTHWORK, MEASURED IN EMBANKMENT	CY	2,129
22.05008	SANITARY SEWER PIPE, 8"	LF	73
22.05208	SANITARY SEWER PLUG, 8"	EA	1
22.08304	PIPE SEWER SERVICE, 4"	LF	559
30.07006	SEEDING, TY "F"	AC	0.43
32.02001	SYNTHETIC FABRIC SILT FENCE INST	LF	178
32.02002	SYNTHETIC FABRIC SILT FENCE MAINT	LF	178
32.02003	SYNTHETIC FABRIC SILT FENCE REM	LF	178
32.03001	CONSTRUCTION ENTRANCE SURFACING	TON	22.0
50.00001	INSTALL SPLASH PAD	EA	1
50.00001	INSTALL RUNDOWN - DEPTH MARKER	EA	1
50.00001	INSTALL WARNING SIGN	EA	1
50.00005	REMOVE EX 8" SANITARY SEWER PIPE	LF	65
50.00005	REMOVE EX SANITARY SERVICE	LF	20
50.00040	10" P.C.C. PAVEMENT L4500 MIX	SY	107

BID SECTION II QUANTITIES

01.00001	MOBILIZATION	LS	1
2.01001	GEN. CLEARING & GRUBBING	LS	1
2.04001	REM. & RESET FENCE	LF	484
2.05001	EXCAVATION	CY	16,352
2.08001	EARTHWORK, MEASURED IN EMBANKMENT	CY	13,574
21.03018	REM. STORM SEWER PIPE, 18"	LF	82
21.03024	REM. STORM SEWER PIPE, 24"	LF	40
21.03324	RCP, STORM SEWER, CL. III, 24"	LF	39
22.05018	SANITARY SEWER PIPE, 18"	LF	148
22.07002	STD. MH, TY "P"	EA	1
22.07102	STD. MH, TY "P" VF	VF	11.0
30.07006	SEEDING, TY "F"	AC	1.49
32.02001	SYNTHETIC FABRIC SILT FENCE INST	LF	1054
32.02002	SYNTHETIC FABRIC SILT FENCE MAINT	LF	1054
32.02003	SYNTHETIC FABRIC SILT FENCE REM	LF	1054
32.03001	CONSTRUCTION ENTRANCE SURFACING	TON	22.0
50.00001	REMOVE EX CONCRETE DISSIPATION STRUCTURE	EA	1
50.00001	REMOVE EX OVERFLOW STRUCTURE	EA	2
50.00001	REMOVE EX INTERCONNECT PIPE AND VALVE	EA	1
50.00001	REMOVE EX DISCHARGE PIPE AND VALVE	EA	1
50.00001	INSTALL HDPE DEPTH MARKER	EA	1
50.00001	INSTALL WARNING SIGN	EA	1
50.00001	INSTALL INLET PAD	EA	1
50.00001	INSTALL SAFETY POST AND ROPE	EA	1
50.00005	REMOVE EX 8" SANITARY SEWER PIPE	LF	119
50.00005	REMOVE BARB WIRE FENCE	LF	261
50.00005	BARB WIRE FENCE	LF	420
50.00005	CHAINLINK FENCE	LF	161
50.00015	REMOVE TREE MASS	LS	1
50.00035	FLY ASH STABILIZATION	TN	331
50.00045	60 MIL HDPE LINER	SF	89,425

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	2
Date: 11.27.2016	Drawn: KDJ
	Designed: NEO
	Approved: JRS

000-A-00

JUSTIN R. STARK
E-13167
11/29/16
STATE OF NEBRASKA

GENERAL NOTES AND SUMMARY OF QUANTITIES

000-A-00

PROJ: _PRELIM&FINAL Lincoln Rural Road Ext&Realignment Capacity
TEAM: Add to per SHT_ENTRIES.txt
USER: KEVIN.DEJONG
DATE: 07/07/2016
DGN: G:\projects\088977\cad\dgn\088977GENNOT.dgn

LEGEND – SURVEY (UTILITIES)

- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRICAL RISER
- GAS BLOW OFF
- GAS METER
- GAS VALVE
- GUY POLE
- GUY ANCHOR
- LIGHT POLE
- MONITORING WELL
- ORNAMENTAL LIGHT
- PULL BOX
- SPRINKLER CONTROL BOX
- SPRINKLER HEAD
- STORM DRAINAGE FLARED END SECTION
- STORM DRAINAGE GRATE INLET
- STORM DRAINAGE CURB INLET
- STORM DRAINAGE MANHOLE
- TELEPHONE BOX
- TELEPHONE PULL BOX
- TELEVISION/CABLE RISER BOX
- TRAFFIC SIGNAL
- TRAFFIC CONTROL BOX
- UTILITY POLE
- WASTE WATER MANHOLE
- WATER HYDRANT
- WATER BLOW OFF
- WATER MANHOLE
- WATER PRIVATE WELL
- WATER STOP BOX
- WATER VALVE
- WATER YARD HYDRANT
- STORM DRAINAGE
- WASTE WATER
- WATER

LEGEND – SURVEY (NON SURVEYED UTILITIES)

- GAS LINE
- ELECTRICAL SERVICE
- ELECTRICAL SERVICE OVERHEAD
- WASTE WATER
- STORM DRAINAGE
- WATER
- TELEPHONE LINE
- TELEPHONE LINE OVERHEAD
- FIBER OPTIC TELE. LINE
- TELEVISION/CABLE TV LINE
- TELEVISION/CABLE TV LINE OVERHEAD
- TRAFFIC SIGNAL

LEGEND – SURVEY (MISC.)

- BENCHMARK
- BORING
- FENCE – R.O.W. OR WIRE
- FENCE – CHAIN LINK
- FENCE – PICKET, PRIVACY OR SPLIT RAIL
- FLOWLINE
- GUARDRAIL
- HEAD STONE
- MAILBOX
- RAILROAD CROSSING SIGNAL
- RAILROAD SWITCH
- RAILROAD TRACKS
- RETAINING WALL
- SIGN
- WATER EDGE

LEGEND – SURVEY (LANDSCAPE)

- BUSH – CONIFEROUS
- BUSH – DECIDUOUS
- BUSH – CONIFEROUS BUSH ROW
- BUSH – DECIDUOUS BUSH ROW
- STUMP – < 12"
- STUMP – 12" TO 23"
- STUMP – 24" TO 35"
- STUMP – > 36"
- TREE – CONIFEROUS MASS PERIMETER
- TREE – CONIFEROUS < 12"
- TREE – CONIFEROUS 12" TO 23"
- TREE – CONIFEROUS 24" TO 35"
- TREE – CONIFEROUS > 36"
- TREE – CONIFEROUS TREE LINE
- TREE – DECIDUOUS MASS PERIMETER
- TREE – DECIDUOUS < 12"
- TREE – DECIDUOUS 12" TO 23"
- TREE – DECIDUOUS 24" TO 36"
- TREE – DECIDUOUS > 36"
- TREE – DECIDUOUS TREE LINE
- TREE REMOVAL

LEGEND – EROSION & SEDIMENT CONTROL

- SYNTHETIC FABRIC SILT FENCE
- SEEDING
- SEEDING
- SODDING
- EROSION CONTROL MAT – STRAW
- EROSION CONTROL MAT – SYNTHETIC
- EROSION CONTROL MAT – BLEND

LEGEND – RIGHT-OF-WAY

- LOT CORNER
- RIGHT-OF-WAY
- EXISTING CONTROL ACCESS
- EXISTING PERMANENT EASEMENT
- EXISTING ROW
- PROPERTY LINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED ROW
- PROPOSED TEMPORARY EASEMENT
- EXISTING PERMANENT EASEMENT
- PERMANENT EASEMENT
- R.O.W. TAKING
- TEMPORARY EASEMENT

LEGEND – PROPOSED (MISC.)

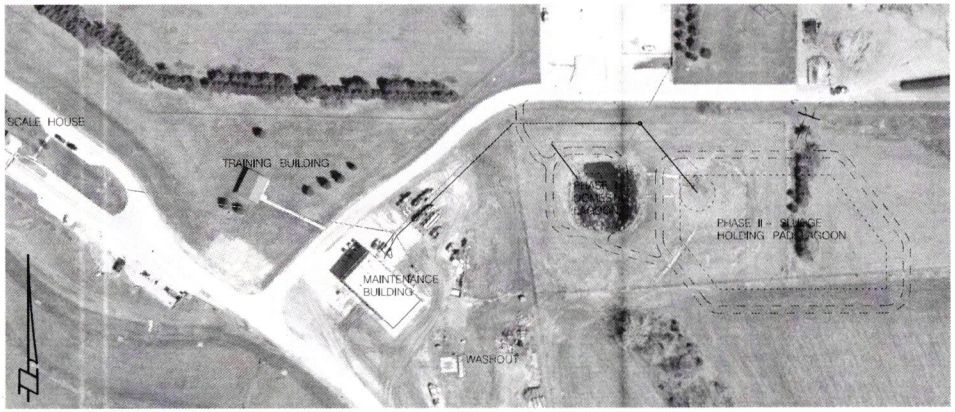
- LIMITS OF CONSTRUCTION
- PROPOSED LOC – CUT
- PROPOSED LOC – FILL
- PROPOSED RETAINING WALL
- ASPHALT SURFACE
- CONCRETE BIKEWAY
- CONCRETE DRIVEWAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- CRUSHED ROCK SURFACING
- EARTH
- RIP RAP
- TACK ON MEDIAN
- WETLANDS
- TUNNEL

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	3
Date: 11-29-2016	Drawn: PSD
Proj. Scale: N.T.S.	Designed: NDO
	Reviewed: MS

000-A-00

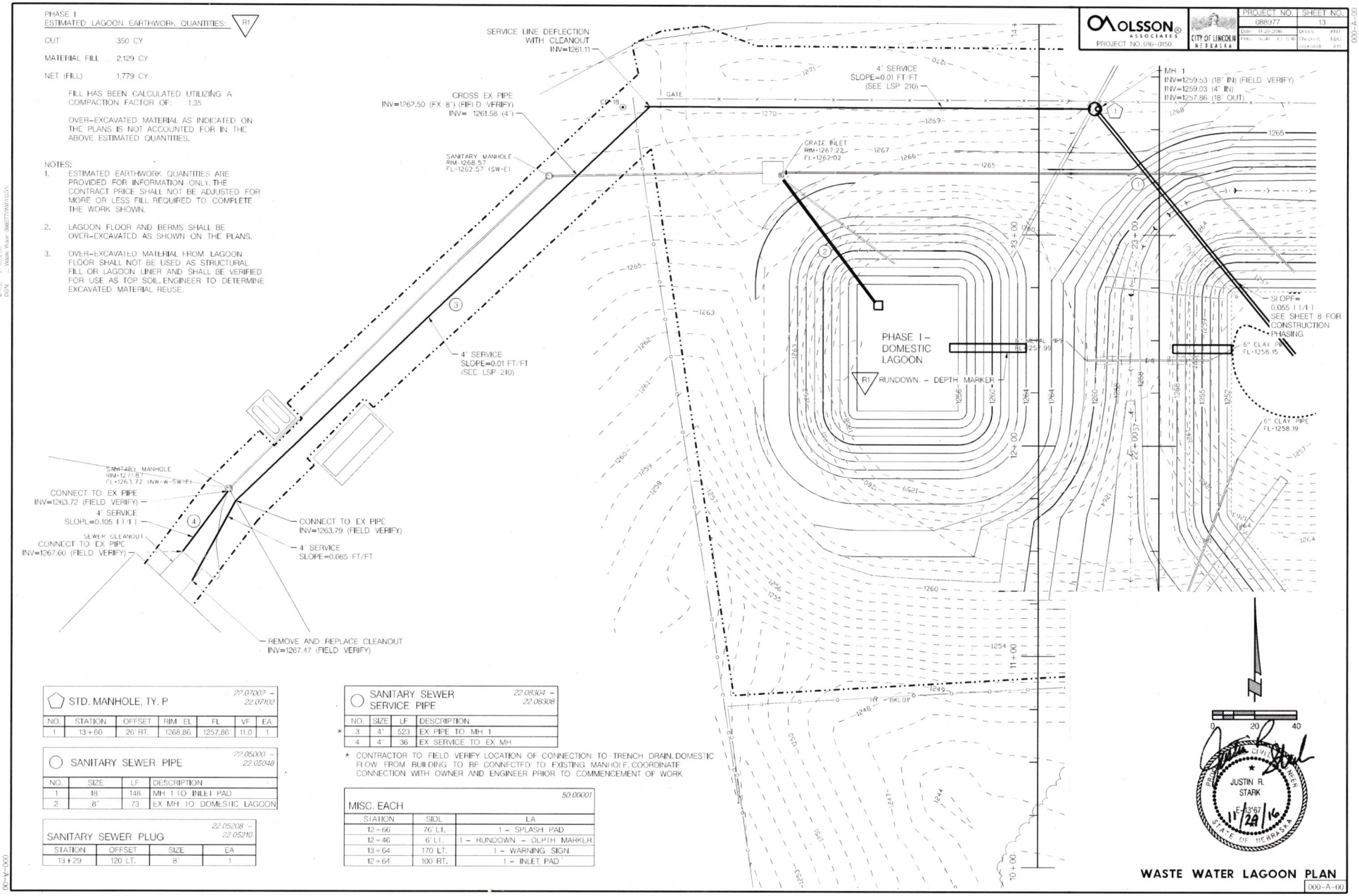


OVERALL SITE PLAN

JUSTIN R. STARK
E-13167
11/29/16
STATE OF NEBRASKA

GENERAL NOTES

000-A-00



STD. MANHOLE, TY. P						22.07002 – 22.07102
NO.	STATION	OFFSET	RIM EL	FL	VF	EA
1	13+60	26' RT.	1268.86	1257.86	11.0	1

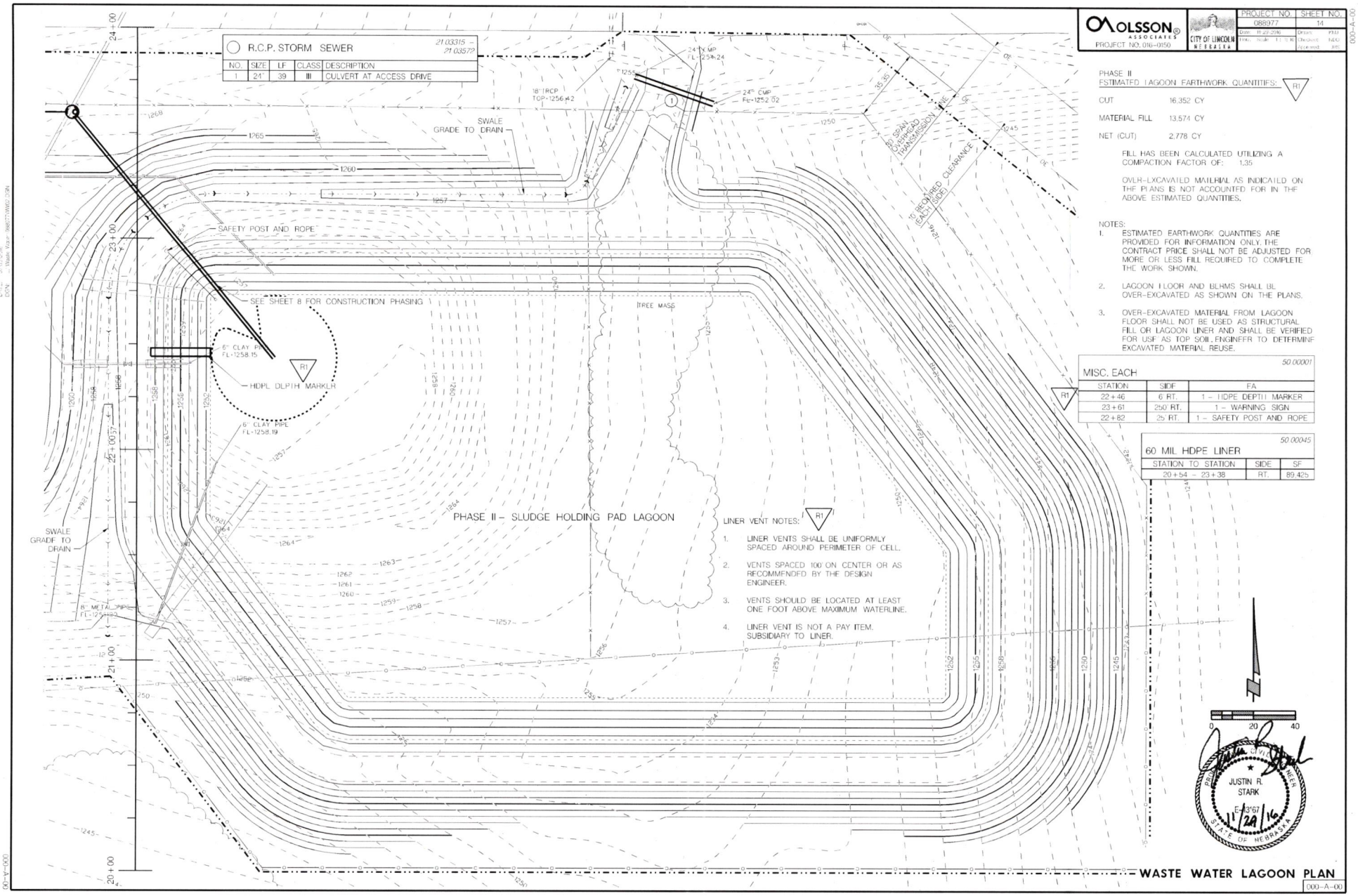
SANITARY SEWER PIPE				22.05000 – 22.05048
NO.	SIZE	LF	DESCRIPTION	
1	18"	148	MH 1 TO INLET PAD	
2	8"	73	EX MH TO DOMESTIC LAGOON	

SANITARY SEWER PLUG				22.05208 – 22.05210
STATION	OFFSET	SIZE	EA	
13+29	120 LT.	8"	1	

SANITARY SEWER SERVICE PIPE				22.08304 – 22.08308
NO.	SIZE	LF	DESCRIPTION	
* 3	4"	523	EX PIPE TO MH 1	
4	4"	36	EX SERVICE TO EX MH	

* CONTRACTOR TO FIELD VERIFY LOCATION OF CONNECTION TO TRENCH DRAIN DOMESTIC FLOW FROM BUILDING TO BE CONNECTED TO EXISTING MANHOLE. COORDINATE CONNECTION WITH OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK

MISC. EACH			50.00001
STATION	SIDE	EA	
12+66	76' LT.	1 - SPLASH PAD	
12+46	6' LT.	1 - RUNDOWN - DEPTH MARKER	
13+64	170' LT.	1 - WARNING SIGN	
12+64	100' RT.	1 - INLET PAD	



OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	14

Date: 11.29.2016
Doc. Scale: 1" = 40'
Drawn: PEU
Checked: NAG
Approved: JRS

000-A-00

PHASE II
ESTIMATED LAGOON EARTHWORK QUANTITIES: R1

CUT	16,352 CY
MATERIAL FILL	13,574 CY
NET (CUT)	2,778 CY

FILL HAS BEEN CALCULATED UTILIZING A COMPACTION FACTOR OF: 1.35

OVER-EXCAVATED MATERIAL AS INDICATED ON THE PLANS IS NOT ACCOUNTED FOR IN THE ABOVE ESTIMATED QUANTITIES.

NOTES:
1. ESTIMATED EARTHWORK QUANTITIES ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACT PRICE SHALL NOT BE ADJUSTED FOR MORE OR LESS FILL REQUIRED TO COMPLETE THE WORK SHOWN.
2. LAGOON FLOOR AND BERMS SHALL BE OVER-EXCAVATED AS SHOWN ON THE PLANS.
3. OVER-EXCAVATED MATERIAL FROM LAGOON FLOOR SHALL NOT BE USED AS STRUCTURAL FILL OR LAGOON LINER AND SHALL BE VERIFIED FOR USE AS TOP SOIL ENGINEER TO DETERMINE EXCAVATED MATERIAL REUSE.

50.00001
MISC. EACH

STATION	SIDE	EA
22+46	6' RT.	1 - HDPE DEPTH MARKER
23+61	250' RT.	1 - WARNING SIGN
22+82	25' RT.	1 - SAFETY POST AND ROPE

50.00045
60 MIL HDPE LINER

STATION TO STATION	SIDE	SF
20+54 - 23+38	RT.	89,425

WASTE WATER LAGOON PLAN

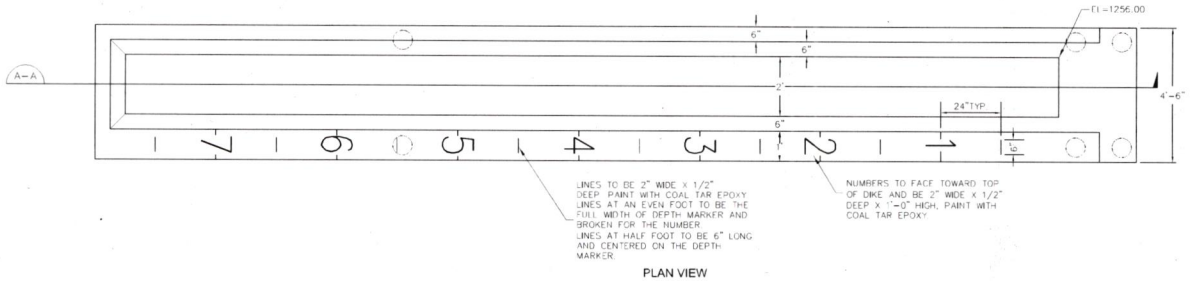
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OLSSON ASSOCIATES
PROJECT NO. 016-0150

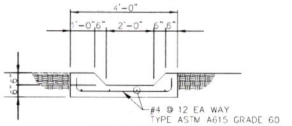
CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	4
Date: 11-29-2016	Drawn: PBM
Date: YEAR - M-D	Checked: NDM
	Approved: JRS

000-A-00

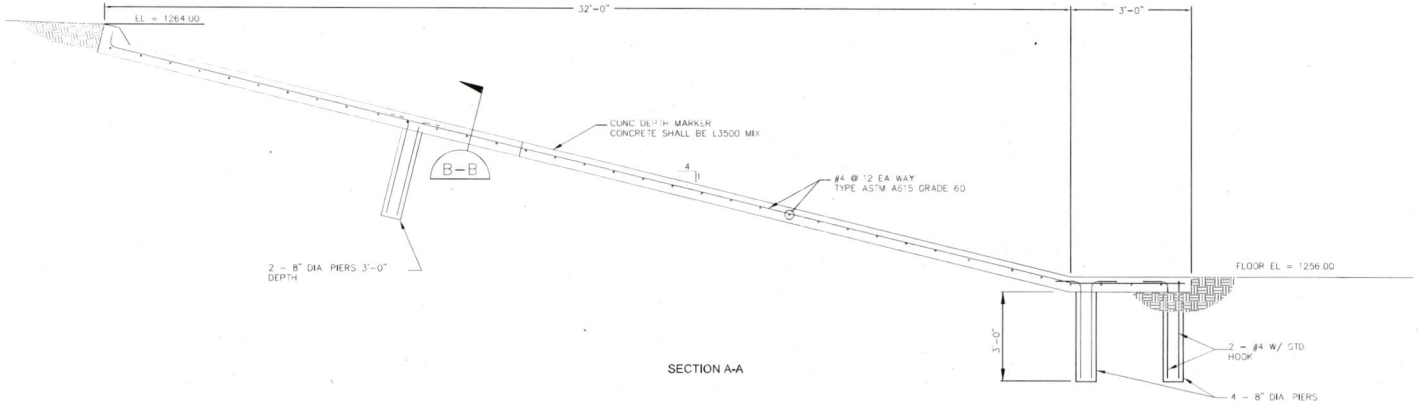


PLAN VIEW



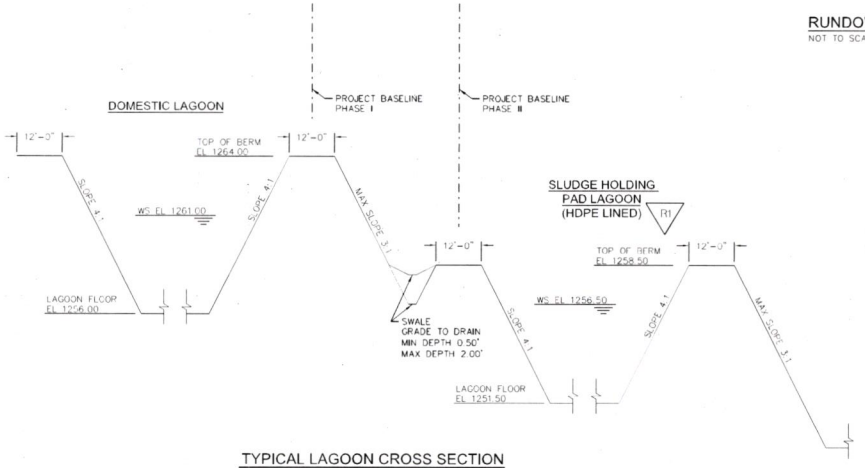
SECTION B-B

RUNDOWN - DEPTH MARKER
NOT TO SCALE

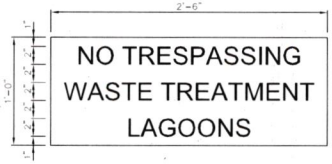


SECTION A-A

RUNDOWN - DEPTH MARKER
NOT TO SCALE

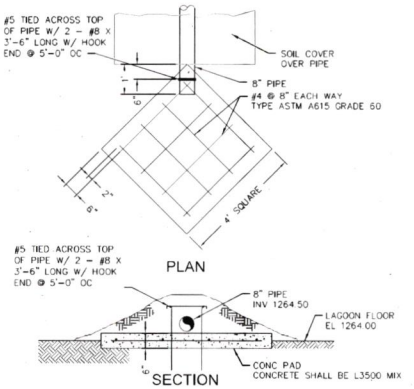


TYPICAL LAGOON CROSS SECTION
SCALE: NTS



NOTE:
WARNING SIGN SHALL BE ALUMINUM & PAINTED ON ALL SIDES. THE BACKGROUND SHALL BE PAINTED WHITE & THE LETTERS SHALL BE RED. ALL LETTERS SHALL BE 1 ½" WIDE & 2" HIGH WITH ½" SPACE BETWEEN EACH LETTER & 1" SPACE BETWEEN EACH WORD. SHALL BE LOCATED ON THE GATE.

WARNING SIGN DETAIL
NOT TO SCALE

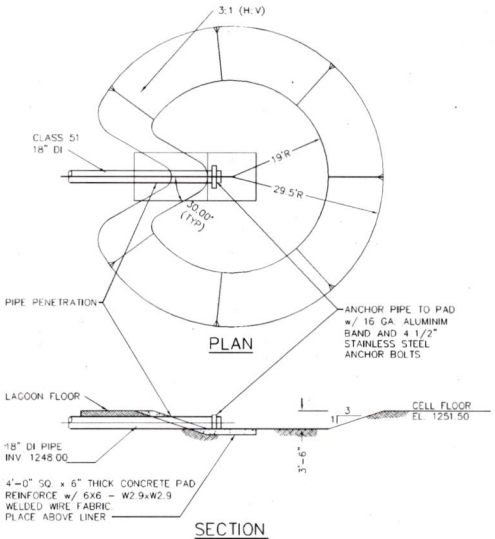


SPLASH PAD DETAIL - PHASE I LAGOON R1
SCALE: 1/2" = 1'-0"



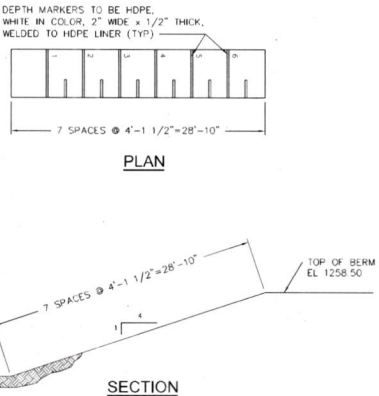
PHASE I DETAILS

000-A-00



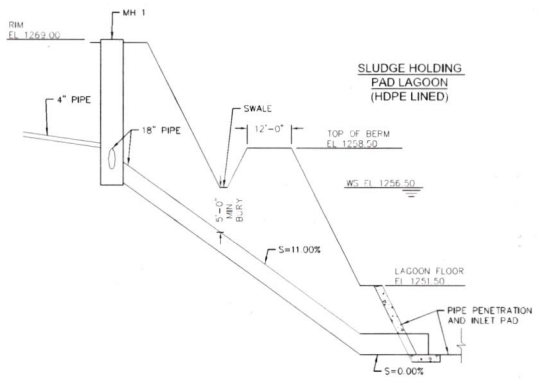
INLET PAD DETAIL – PHASE II LAGOON R1

NOT TO SCALE



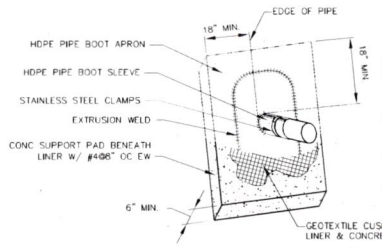
HDPE DEPTH MARKER DETAIL

NOT TO SCALE



R1 SLUDGE HOLDING LAGOON INFLUENT PIPING DETAIL

SCALE: NTS

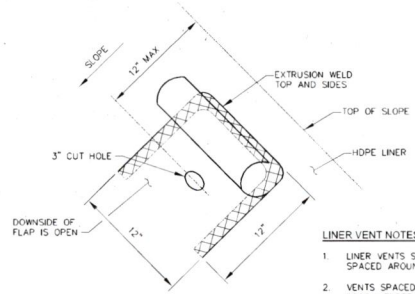


PIPE PENETRATION NOTES:

1. CONCRETE SURFACES TO BE STEEL TROWEL FINISHED WITH ROUNDED & SMOOTHED EDGES.
2. SUGGESTED MIN. CONCRETE STRENGTH 4000 PSI, OR AS DETERMINED BY THE DESIGN ENGINEER.
3. PROVIDE LINER AT EACH PIPE PENETRATION LOCATION.
4. PIPE PENETRATION IS NOT A PAY ITEM. SUBSIDIARY TO INLET PAD.

PIPE PENETRATION DETAIL

SCALE: NTS

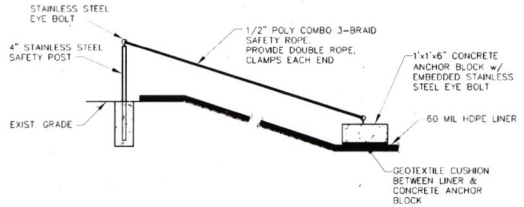


LINER VENT NOTES:

1. LINER VENTS SHALL BE UNIFORMLY SPACED AROUND PERIMETER OF CELL.
2. VENTS SPACED 100' ON CENTER OR AS RECOMMENDED BY THE DESIGN ENGINEER.
3. VENTS SHOULD BE LOCATED AT LEAST ONE FOOT ABOVE MAXIMUM WATERLINE.
4. LINER VENT IS NOT A PAY ITEM. SUBSIDIARY TO LINER.

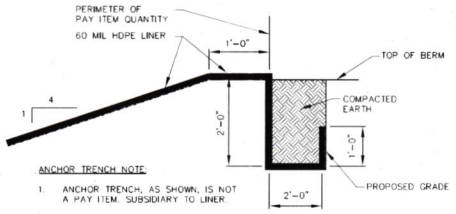
LINER VENT DETAIL

SCALE: NTS



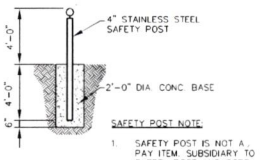
SAFETY POST AND ROPE DETAIL

SCALE: NTS



ANCHOR TRENCH DETAIL

SCALE: NTS



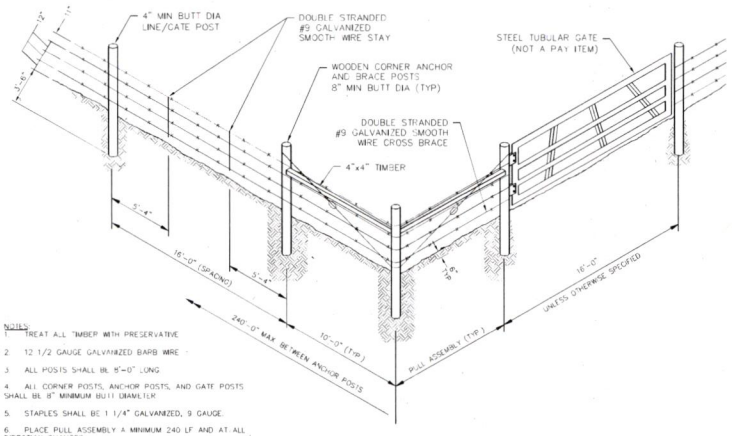
SAFETY POST DETAIL

SCALE: NTS



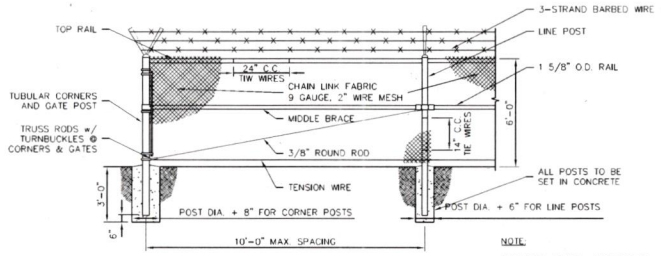
PHASE II DETAILS

000-A-00



NOTES:
1. TREAT ALL TIMBER WITH PRESERVATIVE.
2. 12 1/2 GAUGE GALVANIZED BARB WIRE.
3. ALL POSTS SHALL BE 5'-0" LONG.
4. ALL CORNER POSTS, ANCHOR POSTS, AND GATE POSTS SHALL BE 8" MINIMUM BUTT DIAMETER.
5. STAPLES SHALL BE 1 1/4" GALVANIZED, 9 GAUGE.
6. PLACE PULL ASSEMBLY A MINIMUM 240 LF AND AT ALL DIRECTION CHANGES.

BARBED WIRE DETAIL
NOT TO SCALE



NOTE
REFER TO SPECIAL PROVISIONS FOR FENCE COMPONENTS

CHAINLINK FENCE DETAIL
NOT TO SCALE

JUSTIN R. STARK
E-13167
11/29/16
PROFESSIONAL ENGINEER
STATE OF NEBRASKA

PHASE II DETAILS
000-A-00

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	7
Date: 11-29-2016	Drawn: RDD
Proj. Scale: 1" = 100'	Checked: NEO
	Approved: JRS

000-A-00

LAGOON IMPROVEMENT

(1) P.O.B. STA. 10+00.00 – PROJECT BASELINE – PHASE I
N=241254.24, E=178770.74

(2) P.O.E. STA. 14+00.00 – PROJECT BASELINE – PHASE I
N=241654.24, E=178770.74

(3) P.O.B. STA. 20+00.00 – PROJECT BASELINE – PHASE II
N=241254.24, E=178827.87

(4) P.O.E. STA. 24+00.00 – PROJECT BASELINE – PHASE II
N=241654.24, E=178827.87

(5) END OF 8" PIPE
N=241521.77, E=178693.44

(6) CONNECT TO EX SERVICE LINE DEFLECTION
N=241427.61, E=178392.49

(7) SERVICE LINE DEFLECTION WITH CLEANOUT
N=241614.29, E=178586.96

(8) MH 1
N=241613.91, E=178797.08

(9) END OF 18" PIPE
N=241497.54, E=178892.37

SITE IMPROVEMENT

(10) FENCE
N=241614.28, E=179170.01

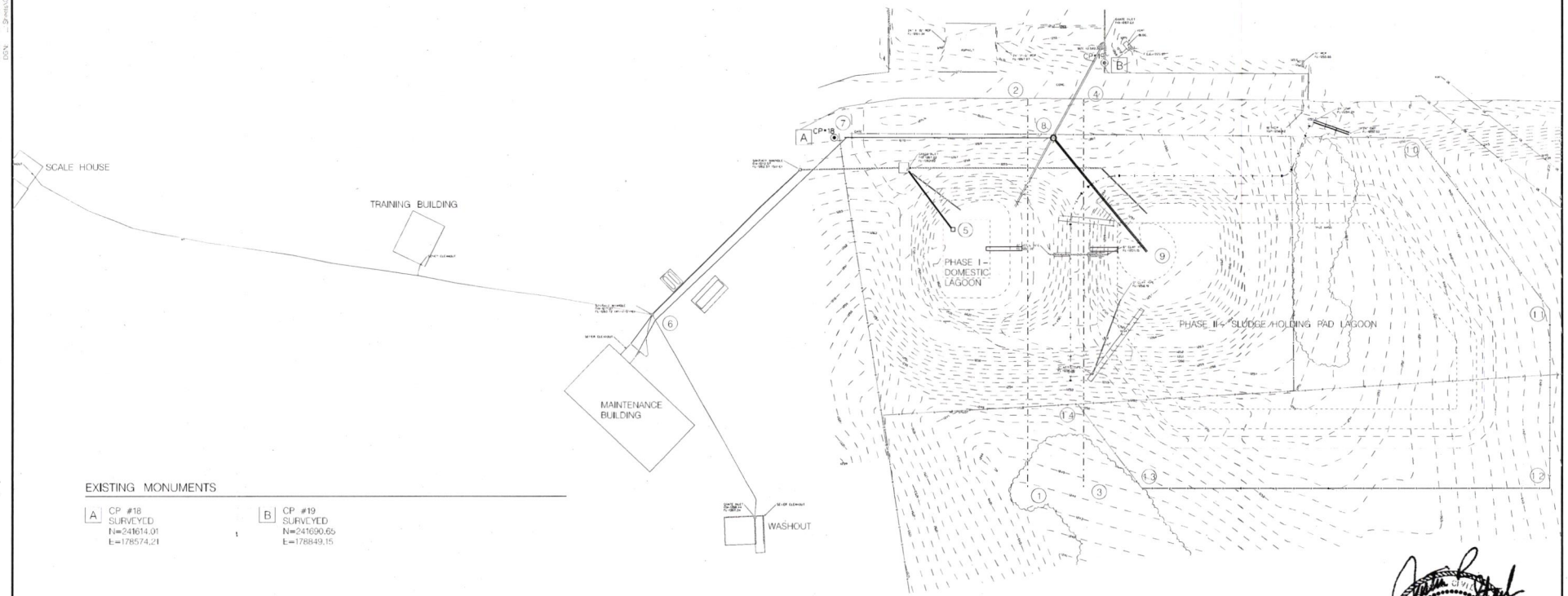
(11) FENCE
N=241438.12, E=179304.29

(12) FENCE
N=241255.78, E=179304.29

(13) FENCE
N=241255.78, E=178885.33

(14) FENCE
N=241341.92, E=178821.65

0 50 100



EXISTING MONUMENTS

A CP #18
SURVEYED
N=241614.01
E=178574.21

B CP #19
SURVEYED
N=241690.65
E=178849.15

BENCHMARKS

BM#18
2" BRASS CAP
ELEV.=1269.82 (N.A.V.D. 1988)

BM#19
CHISELED "X"
ELEV.=1268.51 (N.A.V.D. 1988)

PROFESSIONAL ENGINEER
JUSTIN R. STARK
E-13167
11/29/16
STATE OF NEBRASKA

HORIZONTAL AND VERTICAL CONTROL

000-A-00

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	8
Date: 11-22-2016	Drawn: PSD
Proj. Scale: 1" = 100'	Checked: NJD
	Submitted: JRS

000-A-00

PHASING NOTES:

PHASE I – DOMESTIC LAGOON
SUBSTANTIAL COMPLETION DATE: JUNE 1ST, 2017

1. DURING CONSTRUCTION OF THE DOMESTIC LAGOON AND DOMESTIC LAGOON INLET PIPING, CONTRACTOR SHALL DIVERT WASTEWATER FLOW TO THE EXISTING EAST LAGOON CELL USING THE EXISTING SPLITTER STRUCTURE.
2. PRIOR TO DIVERSION OF WASTEWATER TO EAST LAGOON, CONTRACTOR TO VERIFY THAT PIPING FROM THE SPLITTER STRUCTURE TO THE EXISTING EAST LAGOON IS OPERATIONAL.
3. PRIOR TO WASTEWATER FLOW ENTERING THE DOMESTIC LAGOON, PIPING FROM TRENCH DRAINS TO SLUDGE HOLDING PAD LAGOON JUNCTION STRUCTURE MUST BE INSTALLED AND OPERATIONAL.
4. SUBSTANTIAL COMPLETION OF PHASE I – DOMESTIC LAGOON INCLUDES THE OWNER RECEIVING THE OPERATING PERMIT FROM NDEQ.
5. ALL EROSION SHALL BE ADDRESSED PRIOR TO SEEDING. FINAL SEEDING TO BE COMPLETED IN PHASE II. COVER CROP SHALL BE USED IN PHASE I. COVER CROP IS NOT A PAY ITEM, SUBSIDIARY TO SEEDING.

PHASE II – SLUDGE HOLDING PAD LAGOON
SUBSTANTIAL COMPLETION DATE: OCTOBER 1ST, 2017

1. CONSTRUCTION OF SLUDGE HOLDING PAD LAGOON SHALL NOT COMMENCE UNTIL THE PHASE I – DOMESTIC LAGOON IS COMPLETE AND OPERATIONAL.
2. AMOUNT OF SLUDGE ON THE SLUDGE HOLDING PAD MAY BE MINIMIZED BY LWWS DURING CONSTRUCTION .
3. SUBSTANTIAL COMPLETION OF PHASE II – SLUDGE HOLDING PAD LAGOON IS OPERATIONAL.

PERMITTING NOTES:

PHASE I – DOMESTIC LAGOON

R1 1. OWNER IS RESPONSIBLE FOR COMPLIANCE OF LAGOON SYSTEM WITH NDEQ TITLE 124 AND REGISTRATION OF THE LAGOON SYSTEM WITH NDEQ.

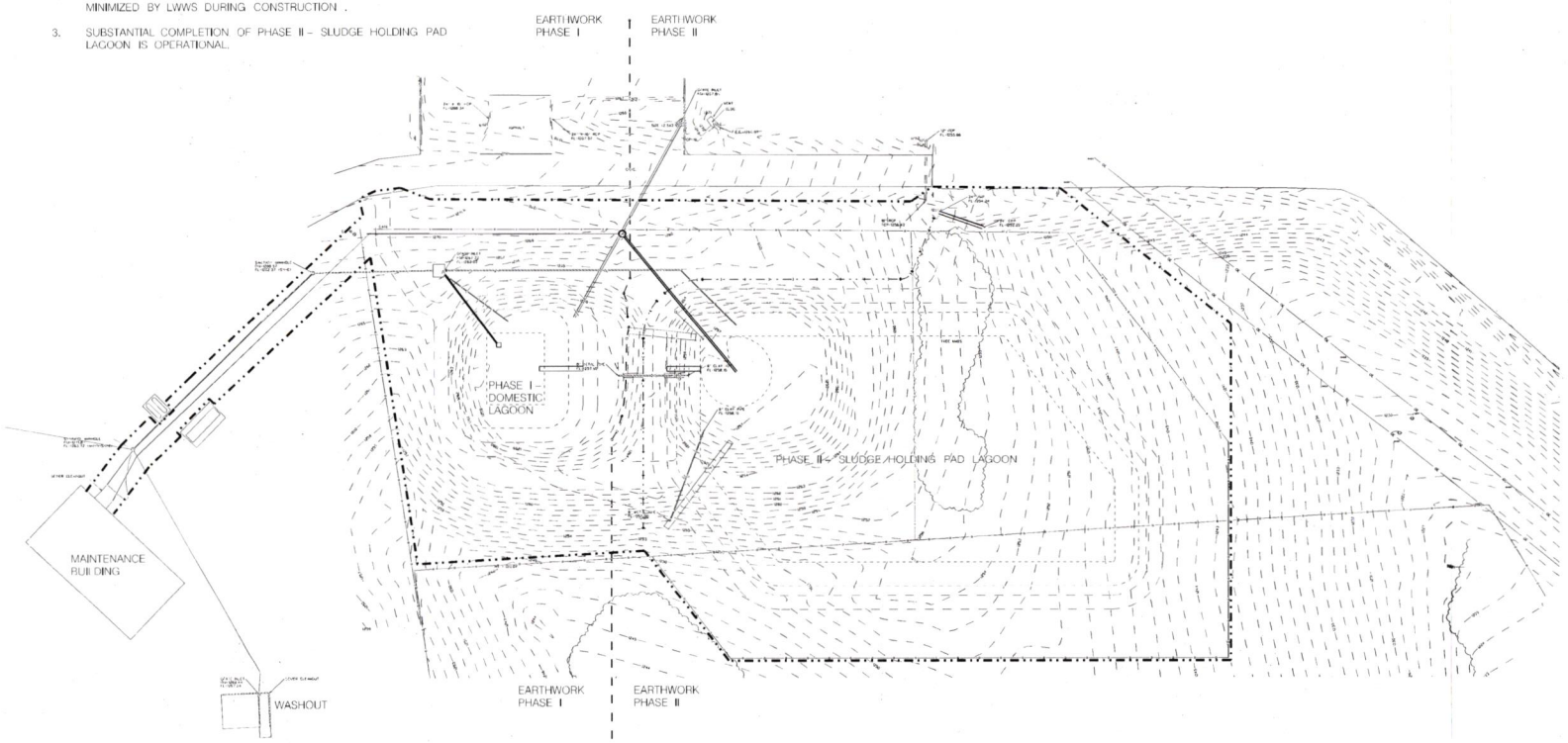
PHASE II – SLUDGE HOLDING PAD LAGOON

R1 1. OWNER IS RESPONSIBLE FOR COMPLIANCE OF LAGOON SYSTEM WITH NDEQ TITLE 123.

MISCELLANEOUS NOTES:

1. STAGING AREAS SHALL BE COORDINATED WITH THE OWNER PRIOR TO CONSTRUCTION.
2. CONSTRUCTION ACTIVITIES SHALL NOT INTERFERE WITH THE NORMAL WORK OPERATIONS OF THE LANDFILL OR THE BUILDING CONSTRUCTION ACTIVITIES. ACCESS SHALL BE MAINTAINED IN ALL AREAS AT ALL TIMES DURING CONSTRUCTION.

R1



0 50 100

PROFESSIONAL ENGINEER
JUSTIN R. STARK
E-13167
11/29/16
STATE OF NEBRASKA

CONSTRUCTION PHASING

000-A-00

SWPPP GENERAL NOTES

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	9
Date: 11-29-2016	Drawn: RMM
Rev. Date: 11-29-16	Designed: MBN
	Approved: RBF

000-A-00

GENERAL:

THIS SEDIMENT AND EROSION CONTROL PLAN IS INTENDED AS A GENERAL GUIDE FOR IMPLEMENTING EROSION CONTROL MEASURES FOR THE CITY OF LINCOLN BLUFF ROAD LANDFILL LAGOON IMPROVEMENT PROJECT. SUGGESTED PRACTICES, STRUCTURES, AND MEASURES SHOWN HERE ARE NOT NECESSARILY ALL-INCLUSIVE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE NPDES GENERAL PERMIT (NER110000) AND ANY APPLICABLE CITY OF LINCOLN, LPSNRD, NDEQ, AND EPA REGULATIONS AND GUIDELINES. LINCOLN SOLID WASTE OPERATIONS HAS AN INDUSTRIAL STORMWATER PERMIT. ALL SWPPP PROCEDURES SHALL FOLLOW THAT PERMIT.

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES THE CONSTRUCTION OF A DOMESTIC LAGOON ON THE PROJECT SITE. THE PROJECT SITE IS LOCATED EAST OF THE INTERSECTION OF US HIGHWAY 77 AND BLUFF ROAD APPROXIMATELY 1200 FEET.

EXISTING SITE CONDITIONS:

CONSTRUCTION WILL TAKE PLACE INSIDE THE LIMITS OF CONSTRUCTION.

SUPPLEMENTAL NOTES:

1. CONTRACTOR SHALL CLEAN VEHICLES AND EQUIPMENT BEFORE EXITING THE CONSTRUCTION SITE TO PREVENT NEGATIVE IMPACTS TO ADJACENT ROADS. CONTRACTOR SHALL CLEAN ANY CONSTRUCTION-RELATED SEDIMENT OR DEBRIS FROM NEIGHBORING STREETS ON A DAILY BASIS, OR IMMEDIATELY AFTER SIGNIFICANT BUILD UP.
2. A CONSTRUCTION ENTRANCE IN ACCORDANCE WITH LSP 176 SHALL BE INSTALLED AT EACH STAGING AREA AND AT ANY POINT ALONG THE ALIGNMENT WHERE VEHICLES AND EQUIPMENT ARE EXPECTED TO EXIT THE CONSTRUCTION SITE ON A ROUTINE BASIS.
3. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION, SEDIMENT CONTROL AND STORM WATER MANAGEMENT PRACTICES WILL BE CONSTRUCTED AND MAINTAINED TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE LOWER PLATTE SOUTH NRD MANUAL OF EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT STANDARDS, DATED 1994, AND APPROVED SUPPLEMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL MEASURES UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
5. FOLLOWING SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER CONTROLS, TOPSOIL STOCKPILES, AND ANY OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WHICH ARE NOT BEING USED FOR MATERIAL STORAGE, OR ON WHICH ACTUAL EARTH MOVING ACTIVITIES ARE NOT BEING PERFORMED.
6. ALL SEDIMENT OR EROSION CONTROL PRACTICES REQUIRED UNDER THIS CONTRACT SHALL BE INSPECTED BY CONTRACTOR AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. BY RESPONSIBLE PERSONNEL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE BEST MANAGEMENT PRACTICES SHALL BE MADE BY CONTRACTOR IMMEDIATELY. AFTER EACH INSPECTION, AN INSPECTION REPORT SHALL BE COMPLETED BY THE CONTRACTOR AND PLACED IN THE SWPPP.
7. ALL DEWATERING OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. ALL DISCHARGE WATER SHALL BE DIRECTED INTO AN APPROVED SILT TRAPPING DEVICE AND SHALL BE FREE OF ANY SUBSTANCE THAT MAY BE HARMFUL TO AQUATIC LIFE.
8. ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS
9. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
10. INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 9.3.9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL.
11. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH CHAPTER 9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND DUST CONTROL. ANY DAMAGE FROM BLOWING DUST OR EROSION AND RUNOFF FROM THE SITE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER NPDES PERMITS ON ALL BORROW SITES.
14. CONTRACTOR SHALL INSTALL SILT FENCE, STRAW, WATTLE, OR COMPOST BERM ALONG OUTSIDE EDGE OF CONSTRUCTION EASEMENT NEEDED FOR PERIMETER CONTROL MEASURES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT ONTO NEIGHBORING PROPERTIES.
15. CONTRACTOR SHALL REMAIN OUTSIDE OF DITCHES, SWALES, AND CHANNELS TO THE EXTENT POSSIBLE AND TAKE CARE TO AVOID DISTURBANCE OF OR SEDIMENT DISCHARGES TO OPEN CHANNELS, STORM SEWERS, OR ADJACENT PROPERTIES.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL SUPPLY AND MAINTAIN SANITATION FACILITIES AND TRASH DUMPSTERS AT THE CONSTRUCTION SITE. THE LOCATION OF THE SANITATION FACILITIES AND TRASH DUMPSTERS SHALL BE MARKED ON THE SEDIMENT AND EROSION CONTROL PLAN SHEETS.
2. SPILL CONTAINMENT AND CLEAN-UP MATERIALS SHOULD BE READILY AVAILABLE AT EACH OF THE STAGING AREAS. SPILLS OF HAZARDOUS MATERIALS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. ANY CONTAMINATED SOILS OR MATERIALS SHALL BE REMOVED AND TREATED OR DISPOSED OF (AS APPROPRIATE) IN ACCORDANCE WITH NDEQ AND EPA GUIDELINES.
3. CONCRETE TRUCKS SHALL BE CLEANED OUT IN AREAS DESIGNATED BY THE CONTRACTOR. CLEANOUT AREAS SHALL INCLUDE A CONTAINMENT DEVICE THAT WILL PREVENT CONCRETE MATERIALS FROM BECOMING A SOURCE OF STORM WATER POLLUTION.
4. CONTRACTOR SHALL INSTALL A SWPPP INFORMATION SIGN NEAR THE SITE ENTRANCE. SIGN MUST BE ACCESSIBLE/VIEWABLE TO THE GENERAL PUBLIC BUT NOT AN OBSTRUCTION TO SITE TRIANGLES OR VIEWS AS TO CAUSE A SAFETY HAZARD. SWPPP INFORMATION TO BE ON THE SIGN INCLUDES THE NOI, SWPPP PERMIT AUTHORIZATION, NPDES PERMIT AUTHORIZATION, CONSTRUCTION SITE NOTICE AND DETAILED DESCRIPTION OF THE SWPPP DOCUMENTATION.

CONSTRUCTION SEQUENCING:

1. INSTALL ALL CONSTRUCTION ENTRANCES AS REQUIRED.
2. INSTALL ALL PERIMETER CONTROLS AND MAINTAIN UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
3. PROCEED WITH CONSTRUCTION OF DOMESTIC LAGOON.
4. ANY PERIMETER CONTROLS THAT MUST BE REMOVED DURING THE DOMESTIC LAGOON CONSTRUCTION SHALL BE REINSTALLED AT THE END OF EACH WORK DAY.
5. TO THE EXTENT POSSIBLE, THE DOMESTIC LAGOON INSTALLATION SHALL BE COMPLETED IN SEGMENTS.
6. IN ALL CASES, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS FOR EACH SEGMENT WITHIN SEVEN CALENDAR DAYS OF COMPLETION OF CONSTRUCTION.
7. UPON COMPLETION OF THE ENTIRE DOMESTIC LAGOON INSTALLATION, ALL REMAINING DISTURBED AREAS SHALL BE SEEDED AND MULCHED, AND ANY OTHER SPECIFIED EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED.
8. CLEAN UP ANY SEDIMENT DEPOSITS OR CONSTRUCTION DEBRIS IN, ON, OR AROUND SEDIMENT CONTROLS, STORM SEWERS, CULVERTS, DITCHES, CHANNELS, AND ROADS.
9. REMOVE CONSTRUCTION ENTRANCES. SEED AND MULCH DISTURBED AREAS.
10. MAINTAIN SEDIMENT AND EROSION CONTROLS UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
11. AFTER FINAL SITE STABILIZATION IS ACHIEVED, REMOVE AND DISPOSE OF ALL SEDIMENT CONTROLS AND ANY CONTAINED SEDIMENT AS DIRECTED BY THE ENGINEER.
12. SEED AND MULCH AREAS THAT ARE DISTURBED WHILE REMOVING SEDIMENT CONTROLS.

SEEDING NOTES:

1. ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE SEEDED AND MULCHED WITH THE SPECIFIED SEED MIXTURE SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN.
2. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE SEEDED AND MULCHED TO RE-ESTABLISH THE PRE-EXISTING VEGETATION AT NO COST TO THE CITY OF LINCOLN.

PHASE I OWNER:

CITY OF LINCOLN
LINCOLN SOLID WASTE OPERATIONS
5101 N 48TH ST
LINCOLN, NE 68504
CONTACT: RYAN BOYER
(402) 405-5578

PHASE II OWNER:

CITY OF LINCOLN
LINCOLN WASTEWATER SYSTEM
2400 THERESA STREET
LINCOLN, NE 68521
CONTACT: STEVE CRISLER
(402) 441-7966
(402) 429-0090

ENGINEER:

OLSSON ASSOCIATES
601 P STREET, SUITE 200
LINCOLN, NE 68508
CONTACT: JUSTIN R STARK
(402) 458-5917

REGULATORY AGENCY:

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
1200 "N" STREET, SUITE 400
PO BOX 98922
LINCOLN, NE 68501-3581
CONTACT: WENDY WULF
(402) 471-8330



EROSION AND SEDIMENT CONTROL 000-A-00

PROJ: P:\PROJECTS\Lincoln Bluff Road Landfill\Design\Lagoon
FILE: 4-Cover.dwg
USER: mbenck
DATE: 11/29/2016
DWG: 4-Cover.dwg

000-A-00

OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088077	10
Date: 11.27.2016	Drawn: KMJ
Horiz. Scale: 1" = 100'	Checked: NAD
	Approved: JRS

000-A-00

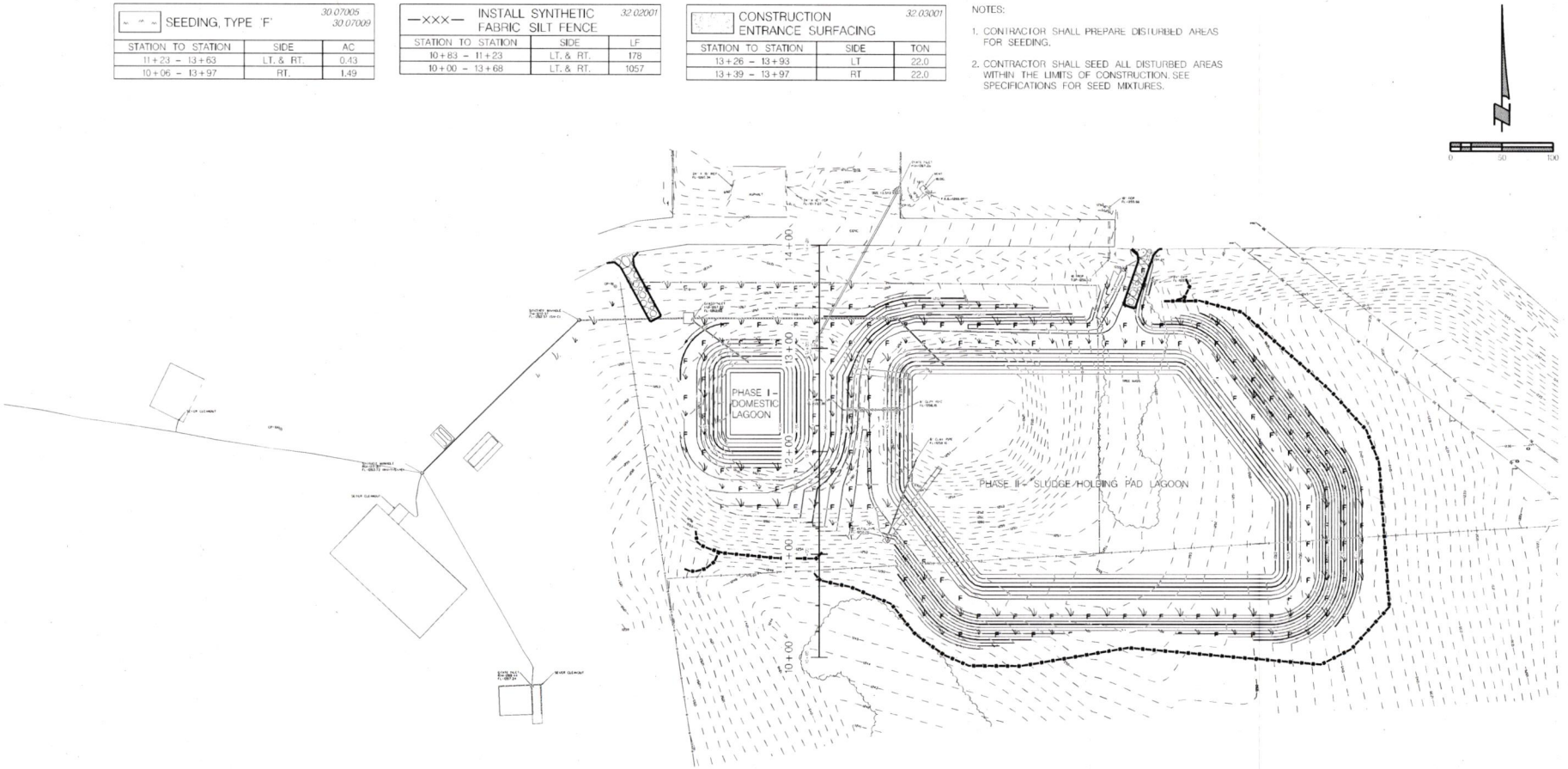
SEEDING, TYPE 'F'		30.07005 30.07009
STATION TO STATION	SIDE	AC
11+23 – 13+63	LT. & RT.	0.43
10+06 – 13+97	RT.	1.49

—XXX— INSTALL SYNTHETIC FABRIC SILT FENCE		32.02001
STATION TO STATION	SIDE	LF
10+83 – 11+23	LT. & RT.	178
10+00 – 13+68	LT. & RT.	1057

CONSTRUCTION ENTRANCE SURFACING		32.03001
STATION TO STATION	SIDE	TON
13+26 – 13+93	LT	22.0
13+39 – 13+97	RT	22.0

NOTES:

1. CONTRACTOR SHALL PREPARE DISTURBED AREAS FOR SEEDING.
2. CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION. SEE SPECIFICATIONS FOR SEED MIXTURES.



JUSTIN R. STARK
E-13967
11/29/16
PROFESSIONAL ENGINEER
STATE OF NEBRASKA

EROSION AND SEDIMENT CONTROL

000-A-00

PAVEMENT AND SIDEWALK REMOVAL		1.04001
STATION TO STATION	SIDE	CY
11+31 – 11+98	LT.	29.9

SAWING			1.05001 – 1.09001
STATION TO STATION	SIDE	TYPE	LF
11+31 – 11+98	LT.	B	173

REMOVE & RESET FENCE		2.04001
STATION TO STATION	SIDE	LF
13+64	LT.	50

REMOVE STORM SEWER PIPE			21.03012 – 21.03072
STATION TO STATION	OFFSET	SIZE	LF
12+89 – 13+62	RT.	18"	82

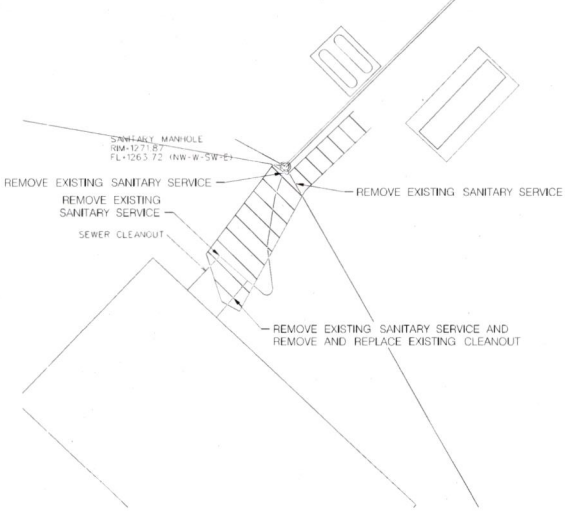
MISC. EACH		50.00001
STATION	SIDE	EA
12+79	19' LT.	REMOVE EX. CONCRETE DISSIPATION STRUCTURE

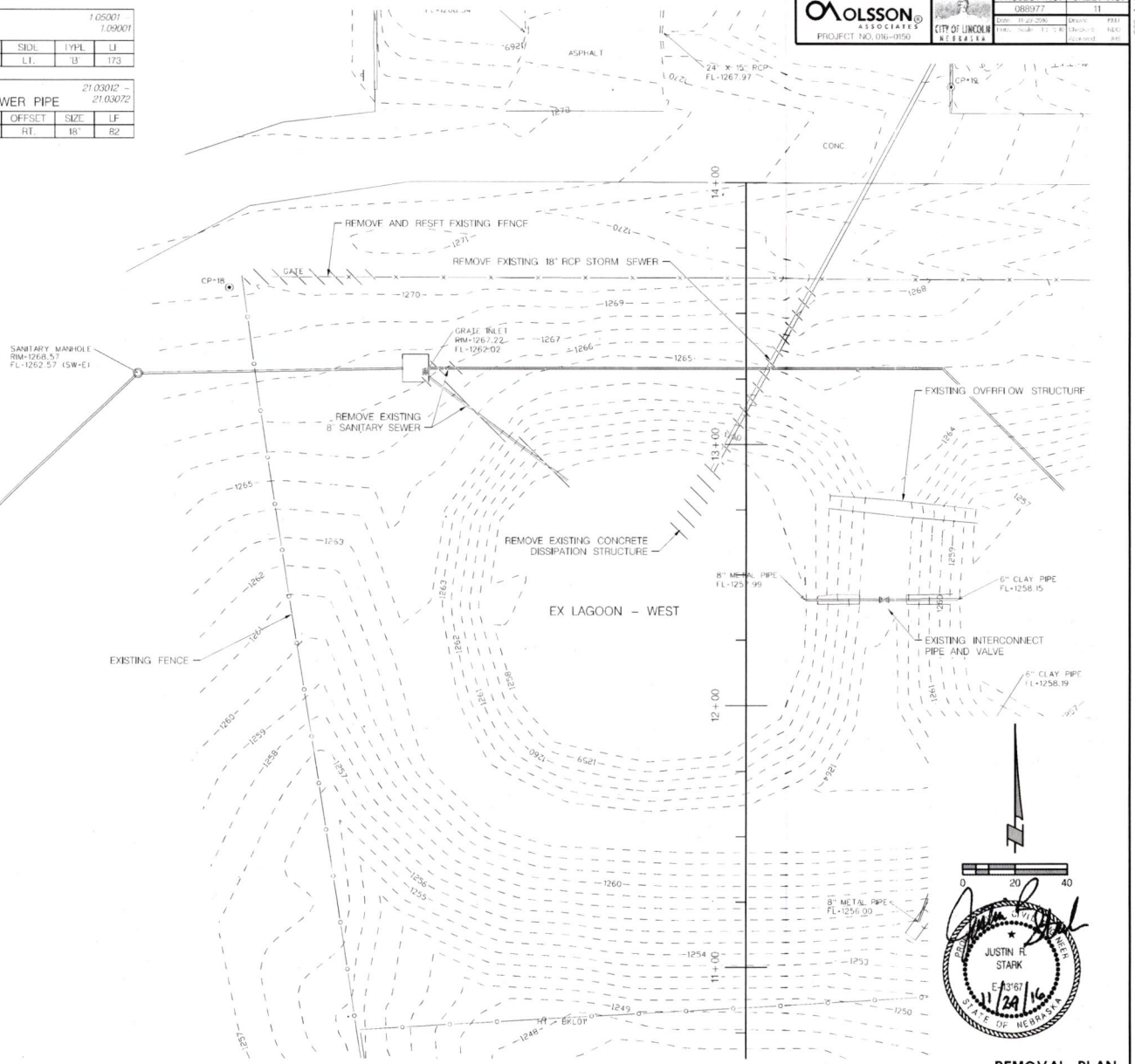
REMOVE EXISTING 8" SANITARY SEWER		50.00005
STATION TO STATION	SIDE	LF
12+86 – 13+26	LT.	65
13+29	119' LT.	5

REMOVE EXISTING SANITARY SERVICE		50.00005
STATION TO STATION	SIDE	LF
11+35	399' LT.	5
11+39	411' LT.	5
11+49	403' LT.	5
11+76	380' LT.	5

10" P.C.C. PAVEMENT L4500 MIX		50.00040
STATION TO STATION	SIDE	SY
* 11+31 – 11+98	LT.	107

* P.C.C. PAVEMENT L4500 MIX SHALL BE IN CONFORMANCE WITH LINCOLN STANDARD SPECIFICATIONS





OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

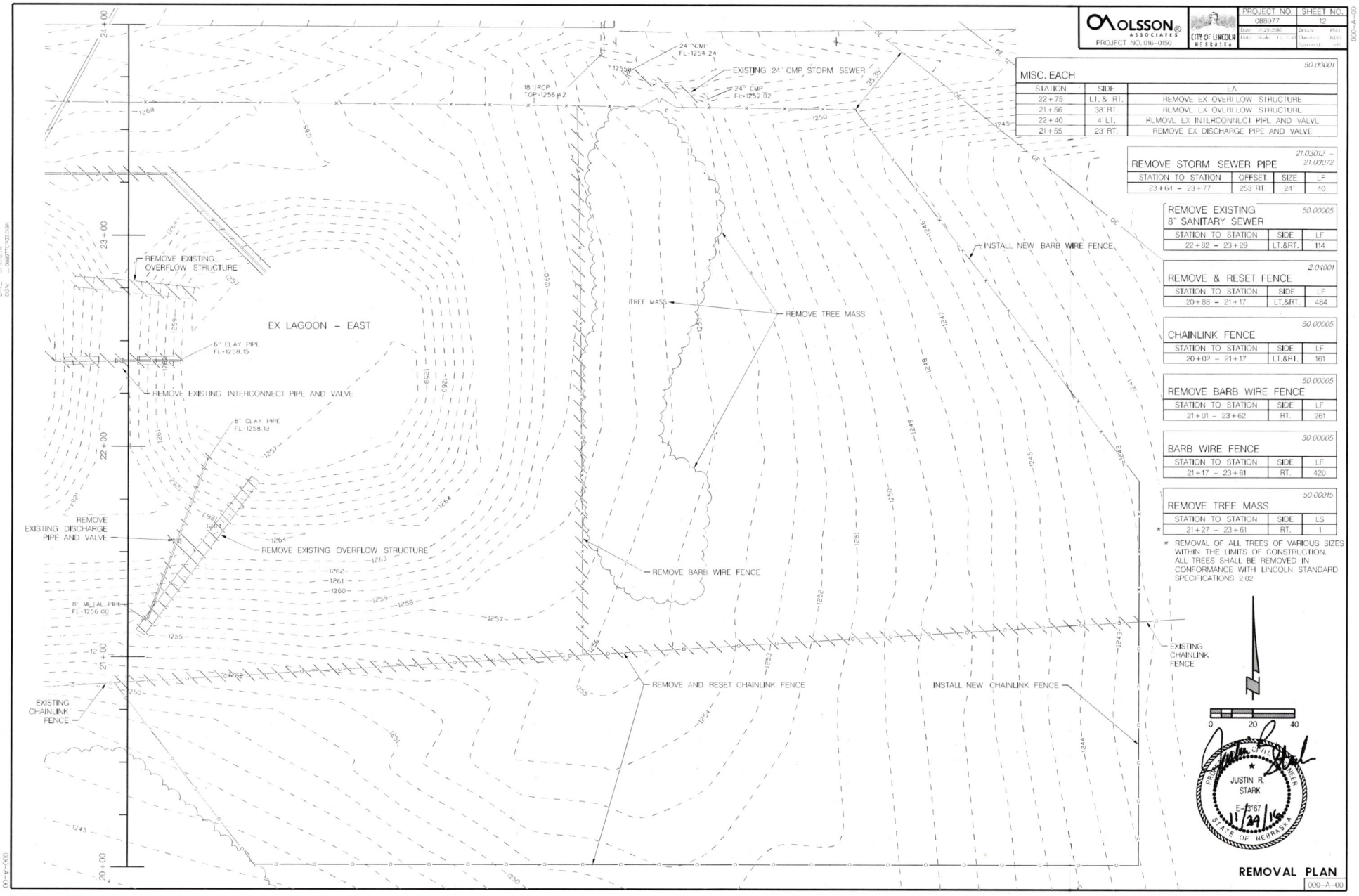
PROJECT NO.	SHEET NO.
088977	11
Date: 11.27.206	Drawn: KDJ
Chkd: Scale: 1" = 40'	Designed: NDC
	Checked: MS

000-A-00

JUSTIN R. STARK
E-13767
11/29/16
STATE OF NEBRASKA

REMOVAL PLAN

000-A-00



OLSSON ASSOCIATES
PROJECT NO. 016-0150

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
088977	12

Date: 11.29.2016
Drawn: PJD
Design: NAL
Approved: JRS

000-A-00

MISC. EACH 50.00001

STATION	SIDE	EA
22+75	LT. & RT.	REMOVE EX OVERFLOW STRUCTURE
21+56	38 RT.	REMOVE EX OVERFLOW STRUCTURE
22+40	4 LT.	REMOVE EX INTERCONNECT PIPE AND VALVE
21+55	23 RT.	REMOVE EX DISCHARGE PIPE AND VALVE

REMOVE STORM SEWER PIPE 21.03012 - 21.03072

STATION TO STATION	OFFSET	SIZE	LF
23+61 - 23+77	253 RT.	24"	10

REMOVE EXISTING 8" SANITARY SEWER 50.00005

STATION TO STATION	SIDE	LF
22+82 - 23+29	LT.&RT.	114

REMOVE & RESET FENCE 2.04001

STATION TO STATION	SIDE	LF
20+88 - 21+17	LT.&RT.	484

CHAINLINK FENCE 50.00005

STATION TO STATION	SIDE	LF
20+02 - 21+17	LT.&RT.	161

REMOVE BARB WIRE FENCE 50.00005

STATION TO STATION	SIDE	LF
21+01 - 23+62	RT.	261

BARB WIRE FENCE 50.00005

STATION TO STATION	SIDE	LF
21+17 - 23+61	RT.	420

REMOVE TREE MASS 50.00015

STATION TO STATION	SIDE	LS
* 21+27 - 23+61	RT.	1

* REMOVAL OF ALL TREES OF VARIOUS SIZES WITHIN THE LIMITS OF CONSTRUCTION. ALL TREES SHALL BE REMOVED IN CONFORMANCE WITH LINCOLN STANDARD SPECIFICATIONS 2.02

PROFESSIONAL ENGINEER
JUSTIN R. STARK
E-9167
11/29/16
STATE OF NEBRASKA

REMOVAL PLAN

000-A-00