

Received Date

LANCASTER COUNTY
555 SOUTH 10TH STREET
LINCOLN, NE 68508

Utility Permit No. 1543

Application Date
4/3/2017

Application to Construct
Utilities On County property

Project or WO No. San. Sewer C.I.P. #702854

Contract No. C-17-0530

County Rep. AGO

Application is hereby made to LANCASTER COUNTY by:

Name: Craig Reinsch, PE for

Phone: 402.441.7987

Company Name: Lincoln Wastewater System (LWWS)

E-Mail: bakramer@lincoln.ne.gov

Address: Attn: Brian Kramer

2400 Theresa St., Lincoln, NE 68521

To construct a utility or utilities on County right-of-way as follows:

LEGAL DESCRIPTION:

Crossing of W. Holdrege Street (currently gravel) between NW 48th and 56th Streets, from Sta. 136+85 to 137+67. Holdrege Street is the south line of Section 18, and north line of Section 19, Township 10N, Range 6E, Lancaster County, approx. 1,483' west of NW 48th Street and 914' east of NW 56th Street. Occupy installation will be to west of crossing for approximately 180' on the south side of Holdrege Street from Sta. 135+05 to Sta. 136+85.

UTILITY TO BE CONSTRUCTED

TYPE	DESCRIPTION	ANNOTATION
<u>Sanitary Sewer</u>	<u>Pipe Size & Type</u>	<u>8" PVC (most probable)</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Other No utility to be buried directly above a drainage structure. Existing utilities will be separated by 24".

PROPOSED UTILITY INSTALLATION

METHOD	SIZE/WIDTH	DESCRIPTION	DEPTH	DESCRIPTION
<u>Open Trench</u>	<u>Width</u>	<u>3' minimum at bottom</u>	<u>Depth</u>	<u>7' min (existing); 13' min (future)</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Other Contact Bob Jacobs at 402-441-7797 48 hours prior to any construction in County Right-of-way.

NAME AND ADDRESS OF CONTRACTOR(S) PERFORMING THE WORK (if Applicable):

UTILITY PERMIT REQUIREMENTS

NOTE – If Engineer plan sheet project notes conflict with Lancaster County’s utility permit application requirements and the special utility permit requirements, the utility permit application requirements and special utility permit requirements shall govern. See Page 6 for additional requirements upon permit approval.

1. Unless agreed to in writing in advance by the owner, the depth of installed facilities shall be at a minimum as follows:
 - A. For utility installation parallel to the roadway, the minimum depth of burial will be 42” (48” in road ditches) measured from the ground surface to the top of the utility, except as noted in “C” below.
 - B. For utility installation transverse to the roadway the minimum depth of burial will be 48” measured from the ground surface to the top of the utility, except as noted in “C” below.
 - C. The minimum depth of burial beneath drainage structures, waterways, creek channels, or culverts within 5’ of the utility route will be 72”, measured from the flow line of the drainage structure, waterway, or creek channel (whichever is lower), to the top of the utility.
 - D. No utility will be buried directly above a drainage structure, **regardless of the burial depth.**
 - E. All crossings with existing utilities will be separated by a minimum of 24”, both horizontally and vertically.
 - F. All paved road and paved driveway crossings will be dry-bored.
 - G. All areas disturbed by construction will be restored to their pre-construction condition. This includes: all open-cut crossings to be backfilled with material excavated from trench; no sand or crushed rock backfill will be allowed; and compaction of backfills to a density equal to or greater than the surrounding soil in and around trenches, bore pits, pull boxes, and other utility appurtenances. It also includes replacing roadway and driveway surfacing lost or damaged by construction, and re-seeding of all areas disturbed by the work.
 - H. Trees within the right-of-way will be preserved by the contractor when possible. All trees, bushes, brush, debris piles, resulting from clearing or grubbing operations will become the property of the contractor and will be removed from county property at the contractor’s expense.
2. The contractor performing the work shall have onsite a copy of approved utility permit allowing permitted work to be done within County Road Right-of-Way.
3. The utility owner or his representative will mark all existing Lancaster County drainage structures along the proposed utility installation route 24 hours prior to construction at a culvert site. All structures will be marked in a manner so as to allow the Utility’s Contractor to identify all “Bore” locations.
4. The contractor will notify Lancaster County Maintenance Superintendent Bob Jacobs at 402-441-7797, within 48 hours, prior to commencing construction on county right-of way.
5. Contractor performing the work to submit insurance certificate naming Lancaster County as additional insured prior to any activities in the right-of-way. Contractor shall also provide Lancaster County a 30 day notice of cancellation, non-renewal or any material reduction of insurance coverage.
6. The applicant, or his contractor, shall contact the local utility companies and request location of any buried utilities. Damage to any utilities, either on County right-of-way or adjacent to County right-of-way, shall be repaired at the expense of the applicant or his contractor.

7. Future road construction work could necessitate relocation of utilities. Those utility relocation costs shall be borne by the utility owner.
8. All trenches shall be backfilled the same day trench was excavated except for the portion where the work is to be continued the next day. The portion left open for work continuation shall be protected by barricades with flashing lights at night. No open trenches in the roadway will be allowed overnight. (Except when such road is closed for construction or except with prior conditional approval to be noted on page #6)
9. Roads may be closed for a maximum of 12 hours, with prior review and approval from this office. (See #11 for signage layout)
10. Road closures longer than 12 hours will require prior review and shall include an approved detour plan. (See #11 for signage layout)
11. Three Type III barricades w/Type A flashing lights shall be placed on each side of construction site. "Road Closed" {R 1 1-2} signs shall be mounted on the middle barricade on each side of the construction site. At the nearest intersection each way from crossing, a "Road Closed _____ Miles ahead -- Local Traffic Only" (R11-3) sign shall be placed.
12. All barricading, flagmen, warning signs, etc. shall conform to the current **Manual on Uniform Traffic Control Devices.**
13. No equipment shall be left unattended on public right-of-way. No trenches shall be left open after working hours. No equipment shall block traffic control devices. If necessary, flagmen shall be required.
14. All pipe and encasements to conform to State Highway Standards.
15. **Notification of proposed utility work to adjacent landowners shall be the responsibility of the Utility Company and or their Agents.**
16. *****Utility Company and or their Agents shall be responsible to notify the Lancaster County Engineering Department upon completion of permitted utility work.*****

TYPICAL CROSS SECTION OF ROAD CROSSING

(Proposed Drawing by Applicant)

I (We) agree to construct the Sanitary Sewer in accordance with the permit requirements and
(utility)
the provisions included as a part of this permit.

COMPANY: Olsson Associates

DATE: 4/3/2017

SIGNED BY: Craig T. Reinsch Digitally signed by Craig T. Reinsch
Date: 2017.04.03 12:45:12 -05'00'

EXECUTION BY LANCASTER COUNTY

The above application is hereby approved subject to the requirements and provisions of the permit.

APPROVED and dated this _____ day of _____ by the Lancaster County
Board of Commissioners.

LANCASTER COUNTY BOARD OF COMMISSIONERS

Chairperson

APPROVED as to form

this _____ day of _____

Deputy County Attorney

REVIEWED this _____ day of _____, _____

Lancaster County Engineering Representative

I (We) agree to construct the _____ in accordance with the permit requirements and
(utility)
the provisions included as a part of this permit.

COMPANY: _____

DATE: _____

SIGNED BY: _____

EXECUTION BY LANCASTER COUNTY

The above application is hereby approved subject to the requirements and provisions of the permit.

Date _____

Signed By: _____
Lancaster County Representative

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(TO BE FILLED IN BY COUNTY PERSONNEL)

Encasement Requirements:

Barricade, Signing and Flagging Requirements:

Comply with Section #12 of the Utility Permit Requirements

Methods of Installation:

Open Trench

Minimum Cover Provided in Road Ditches:

Comply with Section #1 of the Utility Permit Requirements

Other Requirements:

Comply with Section #2 of the Utility Permit Requirements: The Contractor is required to have a copy of the permit in-hand at all times while construction is in progress.

Comply with Section #4 of the Utility Permit Requirements: Contractor must contact Lancaster County Maintenance Superintendent Bob Jacobs (402) 441-7797 within 48-hours prior to beginning construction in the County Right-of-Way.

Additional Comments:

Comply with ALL Sections of the Utility Permit Requirements

Utility Owner/Contractors responsibility to notify Lancaster County upon completion of permitted work.

Detour For Utility Permit No.1543

W. Adams St.

NW 84th St.

W. Holdrege St.

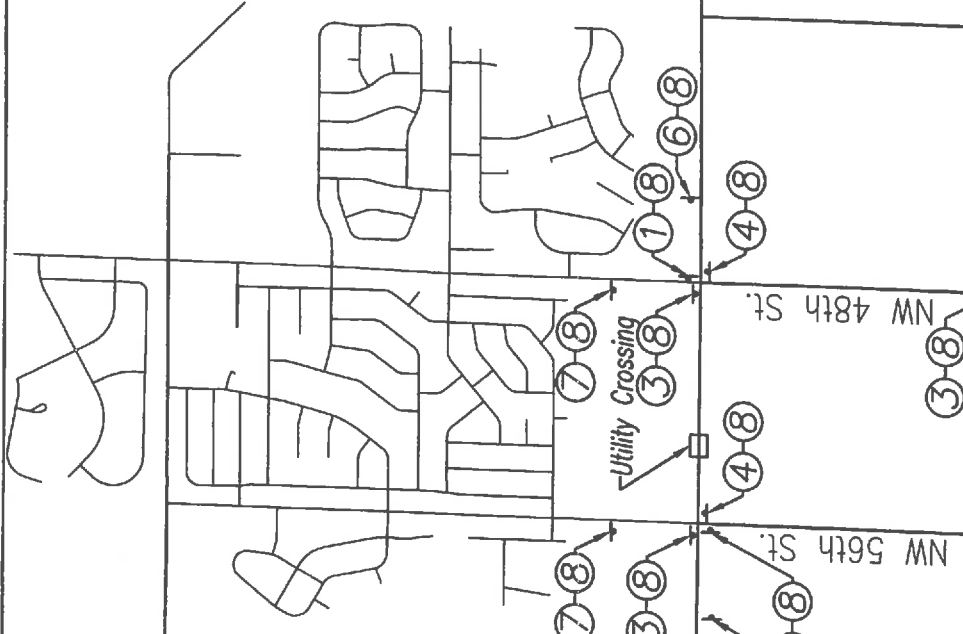
I-80

Hwy 6

SW 63rd St.

SW 40th St.

W. "0" St.



- ① "Detour" (Left Arrow) - (M4-10L)
- ② "Detour" (Right Arrow) - (M4-10R)
- ③ "Detour" (Straight Arrow) - (M4-10)
- ④ "End Detour" - (M4-8A)
- ⑤ "Detour 1 Mile Ahead" - (W20-2f)
- ⑥ "Detour 1000 Ft." - (W20-2c)
- ⑦ "Detour Ahead" - (W20-2A)
- ⑧ "W. Holdrege St. (19 Non-Standard Signs)

⑦-⑧

⑦-⑧

③-⑧

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④-⑧

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①-⑧

**INSURANCE CLAUSE
FOR LANCASTER COUNTY ENGINEER UTILITY PERMITS**

Insurance; Coverage Information

The contractor shall, prior to beginning work, provide proof of insurance coverage in a form satisfactory to the County, which shall not withhold approval unreasonably. The coverages and minimum levels required by this contract are set forth below and shall be in effect for all times that work is being done pursuant to this Contract. No work on the Project or pursuant to this Contract shall begin until all insurance obligations herein are met to the satisfaction of the County, which shall not unreasonably withhold approval. Self-insurance shall not be permitted unless consent is given by the County prior to execution of the Agreement and may require submission of financial information for analysis. Deductible levels shall be provided in writing from the Contractor's insurer and will be no more than \$25,000.00 per occurrence. Said insurance shall be written on an **OCCURRENCE** basis, and shall be **PRIMARY, with any insurance coverage maintained by the County being secondary or excess.**

Certificates

The Contractor shall provide certificates of insurance and endorsements evidencing compliance with these requirements. The Contractor shall provide a Certificate of Insurance demonstrating the coverage required herein and the necessary endorsements and waivers described herein and below before being permitted to begin the work or project. All certificates, endorsements and endorsement forms (where required) must be acceptable to the County Attorney. Certificates shall include an endorsement to provide for at least thirty (30) days' firm written notice in the event of cancellation. During the term of the Agreement and during the period of any required continuing coverages, the Contractor shall provide, prior to expiration of the policies, certificates and endorsement forms evidencing renewal insurance coverages. The parties agree that the failure of County to object to the form of a certificate and/or additional insured endorsement or endorsement forms provided shall not constitute a waiver of this requirement.

1. Commercial General Liability

The Contractor shall provide proof of Commercial General Liability Insurance with a minimum limit of not less than \$1,000,000.00 each occurrence and \$2,000,000.00 aggregate. These minimum limits can be met by primary and umbrella liability policies. Coverage shall include: Premises-Operations, Products/ Completed Operations, Contractual, Broad Form Property Damage, and Personal Injury. Such coverage shall be endorsed for the general aggregate to be on a **PER PROJECT** basis, and the contractor shall provide an additional insured endorsement acceptable to the County. The required insurance must include coverage for all projects and operations of Contractor or similar language that meets the approval of the County, which approval shall not be unreasonably withheld.

1.1 Additional Insured (Requires an Endorsement Form)

An Additional Insured Endorsement Form showing the County as additional Insured.

1.2 Automobile Liability

The Contractor shall provide proof of Automobile Liability coverage, which shall include: Owned, Hired and Non-Owned. Bodily Injury and Property Damage Combined Single Limit shall be at least \$1,000,000 Per Accident.

1.3 Intentionally Omitted

1.4. Workers' Compensation; Employers' Liability

The Contractor shall provide proof of workers' compensation insurance of not less than minimum statutory requirements under the laws of the State of Nebraska and any other applicable State. Employers' Liability coverage with limits of not less than \$500,000.00 each accident or injury shall be included. The Contractor shall provide the County with an endorsement for waiver of subrogation. The contractor shall also be responsible for ensuring that all subcontractors have workers' compensation insurance for their employees before and during the time any work is done pursuant to this Contract.

1.5 Intentionally Omitted

1.5.1 Intentionally Omitted

1.6 Intentionally Omitted

1.7 Intentionally Omitted

1.8 Railroad Contractual Liability Insurance (Required only if appropriate)

If work is to be performed within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass or railroad crossing, the Contractor must provide an endorsement (ISO® form CG24170193 or newer) that removes or deletes any exception for such work in the Contractor's commercial general liability policy. Any endorsement not described herein shall be subject to the approval of the County Attorney.

1.8.1 Railroad Protective Liability (Required only if appropriate)

If work is to be performed within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass or crossing or otherwise required by the Special Provisions or applicable requirements of an affected railroad, the Contractor shall provide Railroad Protective Liability Insurance naming the affected railroad/s as insured with minimum limits for bodily injury and property damage of \$2,000,000 per occurrence, \$6,000,000 aggregate, or such other limits as required in the Special Provisions or by the affected railroad. The original of the policy shall be furnished to the railroad and a certified copy of the same furnished to the County Purchasing Department prior to any related construction or entry upon railroad premises by the Contractor or for work related to the Contract.

1.9 Intentionally Omitted

2. Risk of Loss

Except to the extent covered by the builder's risk insurance, the Contractor shall have the sole responsibility for the proper storage and protection of, and assumes all risk of loss of, any Subcontractor's Work and tools, materials, equipment, supplies, facilities, offices and other property at or off the Project site. The Contractor shall be solely responsible for ensuring each subcontractor shall take every reasonable precaution in the protection of all structures, streets, sidewalks, materials and work of other subcontractors. Contractor shall protect its Work from damage by the elements or by other trades working in the area.

3. Umbrella or Excess Liability

The Contractor may use an Umbrella, Excess Liability, or similar coverage to supplement the primary insurance stated above in order to meet or exceed the minimum coverage levels required by this Contract.

4. Minimum Scope of Insurance

All Liability Insurance policies shall be written on an "Occurrence" basis only. All insurance coverage are to be placed with insurers authorized to do business in the State of Nebraska and must be placed with an insurer that has an A.M. Best's Rating of no less than A:VII unless specific approval has been granted otherwise.

5. Indemnification

To the fullest extent permitted by law the Contractor shall indemnify, defend, and hold harmless the County, its elected officials, officers, employees, agents, consultants, and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorney fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible or intangible property, including the Work itself, but only to the extent caused by the negligent, wrongful, or intentional acts or omissions of the Contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by the negligence of a party indemnified hereunder. In the event the claim, damage, loss or expense is caused in part by the negligence of a party indemnified hereunder, the indemnification by the Contractor shall be prorated based on the extent of the liability of the party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce obligations of indemnity which would otherwise exist as to a party or person described in this Section. Nothing herein shall be construed to be a waiver of sovereign immunity by the County.

6. Reservation of Rights

The County reserves the right to require a higher limit of insurance or additional coverages when the County determines that a higher limit or additional coverage is required to protect the County or the interests of the public. Such changes in limits or coverages shall be eligible for a change order or amendment to the Contract.

7. Sovereign Immunity

Nothing contained in this clause or other clauses of this Agreement/Contract shall be construed to waive the Sovereign Immunity of the County.

For questions regarding Insurance Requirements, please contact Risk Management.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/14/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER UNICO Group, Inc. 1128 Lincoln Mall Suite 200 Lincoln NE 68508	CONTACT NAME: Mary Kent PHONE (A/C No. Ext): (402) 434-7200 E-MAIL ADDRESS: mkent@unicogroup.com FAX (A/C, No): (402) 434-7272
INSURED H R Bookstrom Construction Inc 6401 N 60th St Lincoln NE 68507	INSURER(S) AFFORDING COVERAGE INSURER A: BITCO INSURER B: Cincinnati Insurance Co. INSURER C: INSURER D: INSURER E: INSURER F:
	NAIC # 10677

COVERAGES **CERTIFICATE NUMBER:** 17/18 GL, Auto, UMB, WC **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			CLP 3651539	3/31/2017	3/31/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			CAP 3651540	3/31/2017	3/31/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Scheduled waiver of \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			EXS0072075/2018	3/31/2017	3/31/2018	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC 3651541	3/31/2017	3/31/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
The General Liability policy includes a blanket automatic additional insured endorsement that provides additional insured status on a primary and non-contributing basis only when there is a written contract between the named insured and the certificate holder/entity(ies) that requires such status. The Workers Compensation policy includes a waiver of subrogation endorsement as required by written contract with thenamed insured prior to a loss.

CERTIFICATE HOLDER aolson@lancastrer.ne.gov Lancaster County 444 Cherrycreek Rd. Building "C" Lincoln, NE 68528	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Ric Stoakes/MKENT
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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

UTILITY CONTRACTORS EXTENDED LIABILITY COVERAGE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

It is agreed that the provisions listed below apply only upon the entry of an in the box next to the caption of such provision.

- | | |
|--|---|
| A. <input checked="" type="checkbox"/> Partnership and Joint Venture Extension | M. <input checked="" type="checkbox"/> Construction Project General Aggregate Limits |
| B. <input checked="" type="checkbox"/> Contractors Automatic Additional Insured Coverage – Ongoing Operations | N. <input checked="" type="checkbox"/> Fellow Employee Coverage |
| C. <input checked="" type="checkbox"/> Automatic Waiver of Subrogation | O. <input checked="" type="checkbox"/> Property Damage to the Named Insured's Work |
| D. <input checked="" type="checkbox"/> Extended Notice of Cancellation, Nonrenewal | P. <input checked="" type="checkbox"/> Care, Custody or Control |
| E. <input checked="" type="checkbox"/> Unintentional Failure to Disclose Hazards | Q. <input checked="" type="checkbox"/> Electronic Data Liability Coverage |
| F. <input checked="" type="checkbox"/> Broadened Mobile Equipment | R. <input checked="" type="checkbox"/> Consolidated Insurance Program Residual Liability Coverage |
| G. <input checked="" type="checkbox"/> Personal and Advertising Injury - Contractual Coverage | S. <input checked="" type="checkbox"/> Automatic Additional Insureds – Managers or Lessors of Premises |
| H. <input checked="" type="checkbox"/> Nonemployment Discrimination | T. <input checked="" type="checkbox"/> Automatic Additional Insureds – State or Governmental Agency or Political Subdivisions – Permits or Authorizations |
| I. <input checked="" type="checkbox"/> Liquor Liability | U. <input checked="" type="checkbox"/> Contractors Automatic Additional Insured Coverage – Completed Operations |
| J. <input checked="" type="checkbox"/> Broadened Conditions | V. <input checked="" type="checkbox"/> Additional Insured – Engineers, Architects or Surveyors |
| K. <input checked="" type="checkbox"/> Automatic Additional Insureds – Equipment Leases | |
| L. <input checked="" type="checkbox"/> Insured Contract Extension - Railroad Property and Construction Contracts | |

A. PARTNERSHIP AND JOINT VENTURE EXTENSION

The following provision is added to **SECTION II - WHO IS AN INSURED**:

The last full paragraph which reads as follows:

No person or organization is an insured with respect to the conduct of any current or past partnership, joint venture or limited liability company that is not shown as a Named Insured in the Declarations.

is deleted and replaced with the following:

With respect to the conduct of any past or present joint venture or partnership not shown as a Named Insured in the Declarations and of which you are or were a partner or member, you are an insured, but only with respect to liability arising out of "your work" on behalf of any partnership or joint venture not shown as a Named Insured in the Declarations, provided no other similar liability

insurance is available to you for "your work" in connection with your interest in such partnership or joint venture.

B. CONTRACTORS AUTOMATIC ADDITIONAL INSURED COVERAGE – ONGOING OPERATIONS

SECTION II – WHO IS AN INSURED is amended to include as an additional insured any person or organization who is required by written contract to be an additional insured on your policy, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the project(s) designated in the written contract.

With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

C. AUTOMATIC WAIVER OF SUBROGATION

Item 8. of **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS**, is deleted and replaced with the following:

8. Transfer of Rights of Recovery Against Others to Us and Automatic Waiver of Subrogation.

- a. If the insured has rights to recover all or part of any payment we have made under this Coverage Form, those rights are transferred to us. The insured must do nothing after loss to impair those rights. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.
- b. If required by a written contract executed prior to loss, we waive any right of recovery we may have against any person or organization because of payments we make for injury or damage arising out of "your work" for that person or organization.

D. EXTENDED NOTICE OF CANCELLATION, NONRENEWAL

Item **A.2.b.** of the **COMMON POLICY CONDITIONS**, is deleted and replaced with the following:

A.2.b. 60 days before the effective date of the cancellation if we cancel for any other reason.

Item **9.** of **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS**, is deleted and replaced with the following:

9. WHEN WE DO NOT RENEW

- a.** If we choose to nonrenew this policy, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 60 days before the expiration date.
- b.** If we do not give notice of our intent to nonrenew as prescribed in **a.** above, it is agreed that you may extend the period of this policy for a maximum additional sixty(60) days from its scheduled expiration date. Where not otherwise prohibited by law, the existing terms, conditions and rates will remain in effect during that extension period. It is further agreed that so long as it is not otherwise prohibited by law, this one time sixty day extension is the sole remedy and liquidated damages available to the insured as a result of our failure to give the notice as prescribed in **9. a.** above.

E. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

Although we relied on your representations as to existing and past hazards, if unintentionally you should fail to disclose all such hazards at the inception date of your policy, we will not deny coverage under this Coverage Form because of such failure.

F. BROADENED MOBILE EQUIPMENT

Item **12.b.** of **SECTION V - DEFINITIONS**, is deleted and replaced with the following:

- 12.b.** Vehicles maintained for use solely on or next to premises, sites or locations you own, rent or occupy.

G. PERSONAL AND ADVERTISING INJURY - CONTRACTUAL COVERAGE

Exclusion 2.e. of **SECTION I, COVERAGE B** is deleted.

H. NONEMPLOYMENT DISCRIMINATION

Unless "personal and advertising injury" is excluded from this policy:

Item **14.** of **SECTION V - DEFINITIONS**, is amended to include:

"Personal and advertising injury" also means embarrassment or humiliation, mental or emotional distress, physical illness, physical impairment, loss of earning capacity or monetary loss, which is caused by "discrimination."

SECTION V - DEFINITIONS, is amended to include:

"Discrimination" means the unlawful treatment of individuals based on race, color, ethnic origin, age, gender or religion.

Item **2. Exclusions** of **SECTION I, COVERAGE B**, is amended to include:

"Personal and advertising injury" arising out of "discrimination" directly or indirectly related to the past employment, employment or prospective employment of any person or class of persons by any insured;

"Personal and advertising injury" arising out of "discrimination" by or at your, your agents or your "employees" direction or with your, your agents or your "employees" knowledge or consent;

"Personal and advertising injury" arising out of "discrimination" directly or indirectly related to the sale, rental, lease or sub-lease or prospective sale, rental, lease or sub-lease of any dwelling, permanent lodging or premises by or at the direction of any insured; or

Fines, penalties, specific performance or injunctions levied or imposed by a governmental entity, or governmental code, law, or statute because of "discrimination."

I. LIQUOR LIABILITY

Exclusion 2.c. of **SECTION I, COVERAGE A**, is deleted.

J. BROADENED CONDITIONS

Items **2.a.** and **2.b.** of **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS**, are deleted and replaced with the following:

2. Duties In The Event Of Occurrence, Offense, Claim Or Suit:

- a.** You must see to it that we are notified of an "occurrence" or an offense which may result in a claim as soon as practicable after the "occurrence" has been reported to you, one of your officers or an "employee" designated to give notice to us. Notice should include:
 - (1)** How, when and where the "occurrence" or offense took place;
 - (2)** The names and addresses of any injured persons and witnesses; and
 - (3)** The nature and location of any injury or damage arising out of the "occurrence" or offense.
- b.** If a claim is made or "suit" is brought against any insured, you must:
 - (1)** Record the specifics of the claim or "suit" and the date received as soon as you, one of your officers, or an "employee" designated to record such information is notified of it; and
 - (2)** Notify us in writing as soon as practicable after you, one of your officers, your legal department or an "employee" you designate to give us such notice learns of the claims or "suit."

Item **2.e.** is added to **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:**

- 2.e.** If you report an "occurrence" to your workers compensation insurer which develops into a liability claim for which coverage is provided by the Coverage Form, failure to report such "occurrence" to us at the time of "occurrence" shall not be deemed in violation of paragraphs **2.a., 2.b., and 2.c.** However, you shall give written notice of this "occurrence" to us as soon as you are made aware of the fact that this "occurrence" may be a liability claim rather than a workers compensation claim.

K. AUTOMATIC ADDITIONAL INSUREDS - EQUIPMENT LEASES

SECTION II - WHO IS AN INSURED is amended to include any person or organization with whom you agree in a written equipment lease or rental agreement to name as an additional insured with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, at least in part, by your maintenance, operation, or use by you of the equipment leased to you by such person or organization, subject to the following additional exclusions.

The insurance provided to the additional insured does not apply to:

- 1.** "Bodily injury" or "property damage" occurring after you cease leasing the equipment.

- 2. "Bodily injury" or "property damage" arising out of the sole negligence of the additional insured.
- 3. "Property damage" to:
 - a. Property owned, used or occupied by or rented to the additional insured; or
 - b. Property in the care, custody or control of the additional insured or over which the additional insured is for any purpose exercising physical control.

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

L. INSURED CONTRACT EXTENSION - RAILROAD PROPERTY AND CONSTRUCTION CONTRACTS

Item **9.** of **SECTION V - DEFINITIONS**, is deleted and replaced with the following.

- 9. "Insured Contract" means:
 - a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire to premises while rented to you or temporarily occupied by you with permission of the owner is not an "insured contract";
 - b. A sidetrack agreement;
 - c. Any easement or license agreement;
 - d. An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;
 - e. An elevator maintenance agreement;
 - f. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for "bodily injury" or "property damage" to a third person or organization. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

Paragraph **f.** does not include that part of any contract or agreement:

- (1) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:
 - (a) Preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - (b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage; or
- (2) Under which the insured, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the insured's rendering or failure to render professional services, including those listed in (1) above and supervisory, inspection, architectural or engineering activities.

M. CONSTRUCTION PROJECT GENERAL AGGREGATE LIMITS

This modifies **SECTION III - LIMITS OF INSURANCE**.

A. For all sums which can be attributed only to ongoing operations at a single construction project for which the insured becomes legally obligated to pay as damages caused by an "occurrence" under **SECTION I - COVERAGE A**, and for all medical expenses caused by accidents under **SECTION I - COVERAGE C**:

1. A separate Construction Project General Aggregate Limit applies to each construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
2. The Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under **COVERAGE A**, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard," and for medical expenses under **COVERAGE C** regardless of the number of:
 - a. Insureds;
 - b. Claims made or "suits" brought; or
 - c. Persons or organizations making claims or bringing "suits."
3. Any payments made under **COVERAGE A** for damages or under **COVERAGE C** for medical expenses shall reduce the Construction Project General Aggregate Limit for that construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Construction Project General Aggregate Limit for any other construction project.
4. The limits shown in the Declarations for Each Occurrence, Fire Damage and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Construction Project General Aggregate Limit.

B. For all sums which cannot be attributed only to ongoing operations at a single construction project for which the insured becomes legally obligated to pay as damages caused by an "occurrence" under **SECTION I - COVERAGE A**, and for all medical expenses caused by accidents under **SECTION I - COVERAGE C**:

1. Any payments made under **COVERAGE A** for damages or under **COVERAGE C** for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-Completed Operations Aggregate Limit, whichever is applicable; and
2. Such payments shall not reduce any Construction Project General Aggregate Limit.

C. Payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-Completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Construction Project General Aggregate Limit.

D. If a construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

E. The provisions of **SECTION III - LIMITS OF INSURANCE** not otherwise modified by this endorsement shall continue to be applicable.

N. FELLOW EMPLOYEE COVERAGE

Exclusion 2.e. Employers Liability of **SECTION I, COVERAGE A**, is deleted and replaced with the following:

2.e. "Bodily injury" to

- (1) An "employee" of the insured arising out of and in the course of:
 - (a) Employment by the insured; or
 - (b) Performing duties related to the conduct of the insured's business; or
- (2) The spouse, child, parent, brother or sister of that "employee" as a consequence of paragraph (1) above.

This exclusion applies:

- (1) Whether the insured may be liable as an employer or in any other capacity; and
- (2) To any obligation to share damages with or repay someone else who must pay damages because of the injury.

This exclusion does not apply to:

- (1) Liability assumed by the insured under an "insured contract"; or
- (2) Liability arising from any action or omission of a co-"employee" while that co-"employee" is either in the course of his or her employment or performing duties related to the conduct of your business.

Item **2.a. (1)(a)** of **SECTION II - WHO IS AN INSURED**, is deleted and replaced with the following:

2.a. (1)(a) To you, to your partners or members (if you are a partnership or joint venture) or to your members (if you are a limited liability company), or to your "volunteer workers" while performing duties related to the conduct of your business.

O. PROPERTY DAMAGE TO THE NAMED INSURED'S WORK

Exclusion I of **SECTION I, COVERAGE A**, is deleted and replaced with the following:

I. Damage to Your Work

"Property damage" to "your work" arising out of it or any part of it and included in the "products completed operation hazard."

This exclusion applies only to that portion of any loss in excess of \$50,000 per occurrence if the damaged work and the work out of which the damage arises was performed by you.

This exclusion does not apply if the damaged work or the work out of which the damage arises was performed on your behalf by a subcontractor.

P. CARE, CUSTODY OR CONTROL

Exclusion 2.j.4 of **SECTION I, COVERAGE A**, is deleted and replaced with the following:

2.j.4 Personal property in the care, custody or control of the insured. However, for personal property in the care, custody or control of you or your "employees," this exclusion applies only to that portion of any loss in excess of \$25,000 per occurrence, subject to the following terms and conditions;

- (a) The most that we will pay under this provision as an annual aggregate is \$100,000, regardless of the number of occurrences.
- (b) This provision does not apply to "employee" owned property or any property that is missing where there is not physical evidence to show what happened to the property.
- (c) The aggregate limit for this coverage provision is part of the General Aggregate Limit and **SECTION III - LIMITS OF INSURANCE** is changed accordingly.
- (d) In the event of damage to or destruction of property covered by this exception, you shall, if requested by us, replace the property or furnish the labor and materials necessary for repairs thereto, at actual cost to you, exclusive of prospective profit or overhead charges of any nature.
- (e) \$2,500 shall be deducted from the total amount of all sums you became obligated to pay as damages on account of damage to or destruction of all property of each person or organization, including the loss of use of that property, as a result of each "occurrence." Our limit of liability under the endorsement as being applicable to each "occurrence" shall be reduced by the amount of the deductible indicated above; however, our aggregate limit of liability under this provision shall not be reduced by the amount of such deductible. The conditions of the policy, including those with respect to duties in the event of "occurrence," claims or "suit" apply irrespective of the application of the deductible amount. We may pay any part or all of the deductible amount to effect settlement of any claim or "suit" and, upon notification of the action taken, you shall promptly reimburse us for such part of the deductible amount as has been paid by us.

Q. ELECTRONIC DATA LIABILITY COVERAGE

- 1. **Exclusion 2.p. Electronic Data of SECTION I, COVERAGE A,** is deleted and replaced with the following:
 - 2.p. Damages arising out of the loss of, loss of use of, damage to, corruption of, inability to access, or inability to manipulate "electronic data" that does not result from physical injury to tangible property.
- 2. The following definition is added to **SECTION V – DEFINITIONS:**

"Electronic data" means information, facts or programs stored as or on, created or used on, or transmitted to or from computer software (including systems and applications software), hard or floppy disks, CD-ROMS, tapes, drives, cells, data processing devices or any other media which are used with electronically controlled equipment.
- 3. For the purposes of this coverage, the definition of "property damage" in **SECTION V – DEFINITIONS** is replaced by the following:

"Property damage" means:

 - a. Physical injury to tangible property, including all resulting loss of use of that property. All such loss of use shall be deemed to occur at the time of the physical injury that caused it;
 - b. Loss of use of tangible property that is not physically injured. All such loss of use shall be deemed to occur at the time of the "occurrence" that caused it; or
 - c. Loss of, loss of use of, damage to, corruption of, inability to access, or inability to properly manipulate "electronic data", resulting from physical injury to tangible property. All such loss of "electronic data" shall be deemed to occur at the time of the "occurrence" that caused it.

For the purposes of this insurance, "electronic data" is not tangible property.

R. CONSOLIDATED INSURANCE PROGRAM RESIDUAL LIABILITY COVERAGE

With respect to "bodily injury", "property damage", or "personal and advertising injury" arising out of your ongoing operations; or operations included within the "products-completed operations hazard", the policy to which this coverage is attached shall apply as excess insurance over coverage available to "you" under a Consolidated Insurance Program (such as an Owner Controlled Insurance Program or Contractors Controlled Insurance Program).

Coverage afforded by this endorsement does not apply to any Consolidated Insurance Program involving a "residential project" or any deductible or insured retention, specified in the Consolidated Insurance Program.

The following is added to **Section V – Definitions**

"Residential project" means any project where 30% or more of the total square foot area of the structures on the project is used or is intended to be used for human residency. This includes but is not limited to single or multifamily housing, apartments, condominiums, townhouses, co-operatives or planned unit developments and appurtenant structures (including pools, hot tubs, detached garages, guest houses or any similar structures). A "residential project" does not include military owned housing, college/university owned housing or dormitories, long term care facilities, hotels, motels, hospitals or prisons.

All other terms, provisions, exclusions and limitations of this policy apply.

S. AUTOMATIC ADDITIONAL INSURED - MANAGERS OR LESSORS OR PREMISES

SECTION II – WHO IS AN INSURED is amended to include:

Any person or organization with whom you agree in a written contract or written agreement to name as an additional insured but only with respect to liability arising out of the ownership, maintenance or use of that part of the premises, designated in the written contract or written agreement, that is leased to you and subject to the following additional exclusions:

This insurance does not apply to:

1. Any "occurrence" which takes place after you cease to be a tenant in that premises.
2. Structural alterations, new construction or demolition operations performed by or on behalf of the additional insured listed in the written contract or written agreement.

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

T. AUTOMATIC ADDITIONAL INSURED – STATE OR GOVERNMENTAL AGENCY OR POLITICAL SUBDIVISIONS – PERMITS OR AUTHORIZATIONS

SECTION II – WHO IS AN INSURED is amended to include any state or governmental agency or subdivision or political subdivision with whom you are required by written contract, ordinance, law or building code to name as an additional insured subject to the following provisions:

This insurance applies only with respect to operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization.

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the federal government, state or municipality; or
2. "Bodily injury" or "property damage" included within the "products-completed operations hazard".

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

U. CONTRACTORS AUTOMATIC ADDITIONAL INSURED COVERAGE – COMPLETED OPERATIONS

SECTION II – WHO IS AN INSURED is amended to include as an additional insured any person or organization who is required by written contract to be an additional insured on your policy for completed operations, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the project designated in the contract, performed for that additional insured and included in the "products-completed operations hazard".

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

V. ADDITIONAL INSURED – ENGINEERS, ARCHITECTS OR SURVEYORS

SECTION II – WHO IS AN INSURED is amended to include as an additional insured any architect, engineer or surveyor who is required by written contract to be an additional insured on your policy, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations performed by you or on your behalf.

This includes such architect, engineer or surveyor, who may not be engaged by you, but is contractually required to be added as an additional insured to your policy.

With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services, including:

1. The preparing, approving, or failing to prepare or approve maps, drawings, opinions, reports, surveys, change orders, designs or specifications; or
2. Supervisory, inspection or engineering services.

This insurance is excess of all other insurance available to the additional insured, whether primary, excess, contingent or on any other basis, unless the written contract requires this insurance to be primary. In that event, this insurance will be primary relative to insurance policy(s) which designate the additional insured as a Named Insured in the Declarations and we will not require contribution from such insurance if the written contract also requires that this insurance be non-contributory. But with respect to all other insurance under which the additional insured qualifies as an insured or additional insured, this insurance will be excess.

CONTROL POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
1	210692.72	136545.47	2" ALUM. CAP NE. CORNER NW. QUARTER SEC. 19-10-06
2	210696.41	134097.23	2" ALUM. CAP NW. CORNER NW. QUARTER SEC. 19-10-06
3	208053.99	134075.79	2" ALUM. CAP SW. CORNER NW. QUARTER SEC. 19-10-06
5	208620.16	134055.99	3/4" REBAR
6	210718.33	134431.82	3/4" REBAR

BENCHMARKS		
BM#	DESCRIPTION	ELEVATION
1	CHISELED SQUARE ON S. RIM OF LT&T MANHOLE, NE. CORNER NW. 48TH STREET AND W. HOLDREGE STREET	ELEV.=1281.55 (N.A.V.D. 1988)
2	CHISELED SQUARE S. SIDE OF HEADWALL, APPROX. 0.3 MILE S. OF NW. 48TH STREET AND W. HOLDREGE STREET	ELEV.=1253.96 (N.A.V.D. 1988)
3	CHAIR NAILS IN POWER POLE, 5TH POLE W. OF NW. 48TH STREET AND W. HOLDREGE STREET	ELEV.=1259.13 (N.A.V.D. 1988)
4	CHAIR NAILS IN POWER POLE, 4TH POLE E. OF NW. 56TH STREET AND W. HOLDREGE STREET	ELEV.=1224.44 (N.A.V.D. 1988)
5	NAIL IN POWER POLE, NW. CORNER NW. 56TH STREET AND W. HOLDREGE STREET	ELEV.=1255.78 (N.A.V.D. 1988)
6	RR SPIKE IN 3RD POWER POLE S. OF NW. 56TH STREET AND W. HOLDREGE STREET	ELEV.=1247.18 (N.A.V.D. 1988)

LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854

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EROSION & SEDIMENTATION CONTROL PLAN	9
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LEGEND	
	PROPOSED SANITARY SEWER
	ROAD RIGHT-OF-WAY
	EASEMENT LINE
	BUILDING SETBACK LINE
	ROADWAY CENTERLINE
	SECTION LINE
	SANITARY SEWER MANHOLE

OLSSON ASSOCIATES

601 P Street, Suite 200
P.O. Box 64608
Lincoln, NE 68508

TEL 402.474.6311
FAX 402.474.1510

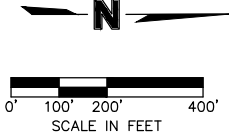
COORDINATING PROFESSIONAL

PROFESSIONAL CIVIL ENGINEER

JOHN B. DAY
E-10648

STATE OF NEBRASKA

I, JOHN B. DAY, AM THE COORDINATING PROFESSIONAL ON THE LWWS I-80 W. BUSINESS DISTRICT TRUNK SEWER PROJECT.



PROJECT CONTACTS	
OLSSON ASSOCIATES	PROJECT MANAGER 601 P STREET LINCOLN, NE 68508 ATTN: BEN DAY (402) 458-5693
LINCOLN WASTEWATER SYSTEM	PROJECT MANAGER 2400 THERESA STREET LINCOLN, NE 68521 ATTN: BRIAN KRAMER (402) 441-7987
LINCOLN WATERSHED MANAGEMENT	PROJECT MANAGER 901 N. 6TH STREET COUNTY-CITY BUILDING, BOX #32 LINCOLN, NE 68508 ATTN: BEN HIGGINS (402) 441-7589

AUTHORIZED FOR CONSTRUCTION

CITY ENGINEER'S OFFICE

REV. NO.	DATE	REVISIONS DESCRIPTION

COVER SHEET	E.O.#	T.C.#	REVISIONS
LWWS I-80 W. LINCOLN BUSINESS CENTER SANITARY TRUNK SEWER			2017

drawn by: BDB
checked by: BJM
approved by: JBD
QA/QC by: CTR
project no.: 016-3244
drawing no.:
date: 05.17.2017



F:\2016\3001-3500\016-3244\40-Design\AutoCAD\Final Plans\Yes\C_PSAN_63244.dwg USER: bdb DATE: May 17, 2017 1:47pm XREFS: C:\INT_BASE_63244 C:\BASE_63244 C:\PSAN_63240

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LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854

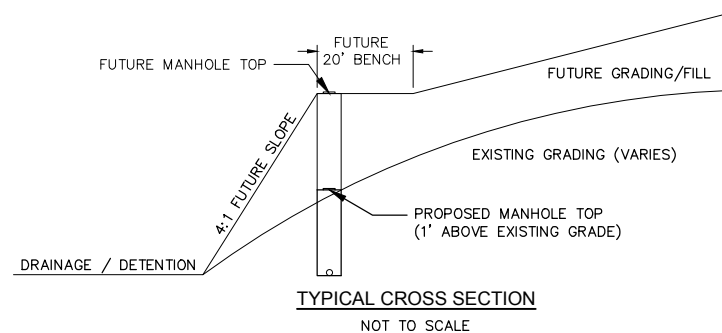
GENERAL NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON-SITE DURING CONSTRUCTION ACTIVITIES.
10. ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
11. A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON SITE AS SHOWN ON THE SWPPP PLANS PLANS LOCATED ON-SITE), OR AS APPROVED BY THE ENGINEER.
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES.
13. EXISTING UTILITY LINES, EITHER OVERHEAD OR UNDERGROUND, AND PERMANENT STRUCTURE WITHIN THE PROPERTY LINES SHALL BE KEPT FREE OF DAMAGE BY CONTRACTOR'S OPERATIONS. IF SUCH UTILITY OR STRUCTURE IS DAMAGED, IT SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. IF ANY UTILITY LINES OR STRUCTURES ARE DAMAGED DURING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER INSTRUCTIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
15. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL & SAFETY MEASURES.
16. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS.
17. 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.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
19. ALL CONSTRUCTION SHALL MEET THE CITY OF LINCOLN STANDARD SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION, 2017 EDITION, APPROVED SPECIAL PROVISIONS, AND LINCOLN STANDARD PLANS (LSP), 2017.

SANITARY SEWER NOTES

1. SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF LINCOLN STANDARD SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION, CHAPTER 22, 2017 EDITION AND ALL APPROVED ADDENDA.
2. FOR DETAILS OF SANITARY SEWER CONSTRUCTION, REFER TO THE CITY OF LINCOLN STANDARD PLANS (LSP), 2017 EDITION AND ALL APPROVED ADDENDA.
 - C.I. MANHOLE RING, COVER, AND STEPS, LSP 162.
 - WASTEWATER MANHOLE TYPE "S" (LINE) AND TYPE "R" (OUTSIDE DROP), LSP 200.
 - WASTEWATER MANHOLE TYPE "G" (LINE), "H" (DROP), "P" (LINE), AND "Q" (DROP), LSP 201.
 - PIPE BEDDING, LSP 185.
 - PVC STUB MARKER, LSP 210
3. SANITARY SEWER PIPE, 8" TO 15", SHALL BE PVC SEWER, ASTM D-3034, TYPE PSM, SDR 35. RESTRAINED JOINT SANITARY SEWER PIPING SHALL BE ASTM D2241 PVC RJ/IB SDR 21 (4"-8") OR SDR 26 (10"-12"). PROVIDE 20' PIPE LENGTHS WHEN POSSIBLE.
4. ON CURVILINEAR ALIGNMENTS, USE 1' JOINT DEFLECTIONS AS REQUIRED BY STANDARD SPECIFICATIONS. SANITARY SEWER PIPE SHALL NOT BE BENT TO ACHIEVE CURVILINEAR ALIGNMENTS.
5. SANITARY SEWER SERVICES SHALL BE EXTENDED TO THE CENTER OF THE RESIDENTIAL LOT FRONTAGE AND TERMINATE AT THE PROPERTY LINE.
6. SANITARY SEWERS MUST BE SEPARATED BY AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
7. AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 IN BELOW THE BOTTOM OF THE WATER MAIN. IN THOSE INSTANCES WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 18 IN ABOVE THE TOP OF THE SANITARY SEWER OR THE SANITARY SEWER IS LOCATED ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED USING A 20 FT. LENGTH OF PVC PRESSURE PIPE, MEETING THE REQUIREMENTS OF AWWA C900 FOR DR18, PRESSURE RATING 150 PSI, CENTERED ON THE WATER MAIN.
8. CONTRACTOR IS REQUIRED TO MAINTAIN EROSION CONTROL BMPs DURING SEQUENCE OF CONSTRUCTION. FOLLOWING COMPLETION OF UTILITY CONSTRUCTION, CONTRACTOR SHALL REPAIR OR PROVIDE NEW EROSION CONTROL BMPs WHICH WERE DAMAGED DURING CONSTRUCTION.

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
01.00001	MOBILIZATION / DEMOBILIZATION	LS	1
02.01001	GENERAL CLEARING AND GRUBBING	LS	1
15.09001	TRAFFIC CONTROL FOR CONSTRUCTION	LS	1
01.01001	CONSTRUCTION STAKING	LS	1
22.05015	SANITARY SEWER PIPE, 15"	LF	895
22.05012	SANITARY SEWER PIPE, 12"	LF	2474
22.05008	SANITARY SEWER PIPE, 8"	LF	541
50.00005	BORE 12-INCH PIPE WITHOUT CASING (INCLUDES PIPE)	LF	150
50.00005	BORE 8-INCH PIPE WITHOUT CASING (INCLUDES PIPE)	LF	50
50.00005	OPEN CUT ACROSS EXISTING GRAVEL ROAD AND REPLACE ROADWAY	LF	30
22.03002	CONV EX TYP P MH TO DROP MH TYP Q	EA	1
22.07002	STD MH, TY "P"	EA	2
22.07003	STD MH, TY "S"	EA	5
22.07102	STD MH, TY "P" VF	VF	18.30
22.07103	STD MH, TY "S" VF	VF	49.75
22.07202	STD DROP MH, TY "Q"	EA	1
22.07302	STD DROP MH, TY "Q" VF	VF	9.47
22.05208	SANITARY SEWER PLUG, 8"	EA	6
50.00001	REMOVE SANITARY SEWER PLUG, 8"	EA	1
30.07008	SEEDING, TY "H"	AC	1.42
32.02001	SYNTHETIC FABRIC SILT FENCE INST	LF	1100
32.02002	SYNTHETIC FABRIC SILT FENCE MAINT	LF	1100
32.02003	SYNTHETIC FABRIC SILT FENCE REM	LF	1100
32.05001	ECB, TYPE I	SY	1820
32.10001	BIODEGRADABLE LOG DITCH CHECK INST	LF	184
32.10002	BIODEGRADABLE LOG DITCH CHECK MAINT	LF	184
32.10003	BIODEGRADABLE LOG DITCH CHECK REM	LF	184
50.00010	OVEREXCAVATION AND TRENCH STABILIZATION	CY	700
50.00015	DEWATERING	LS	1



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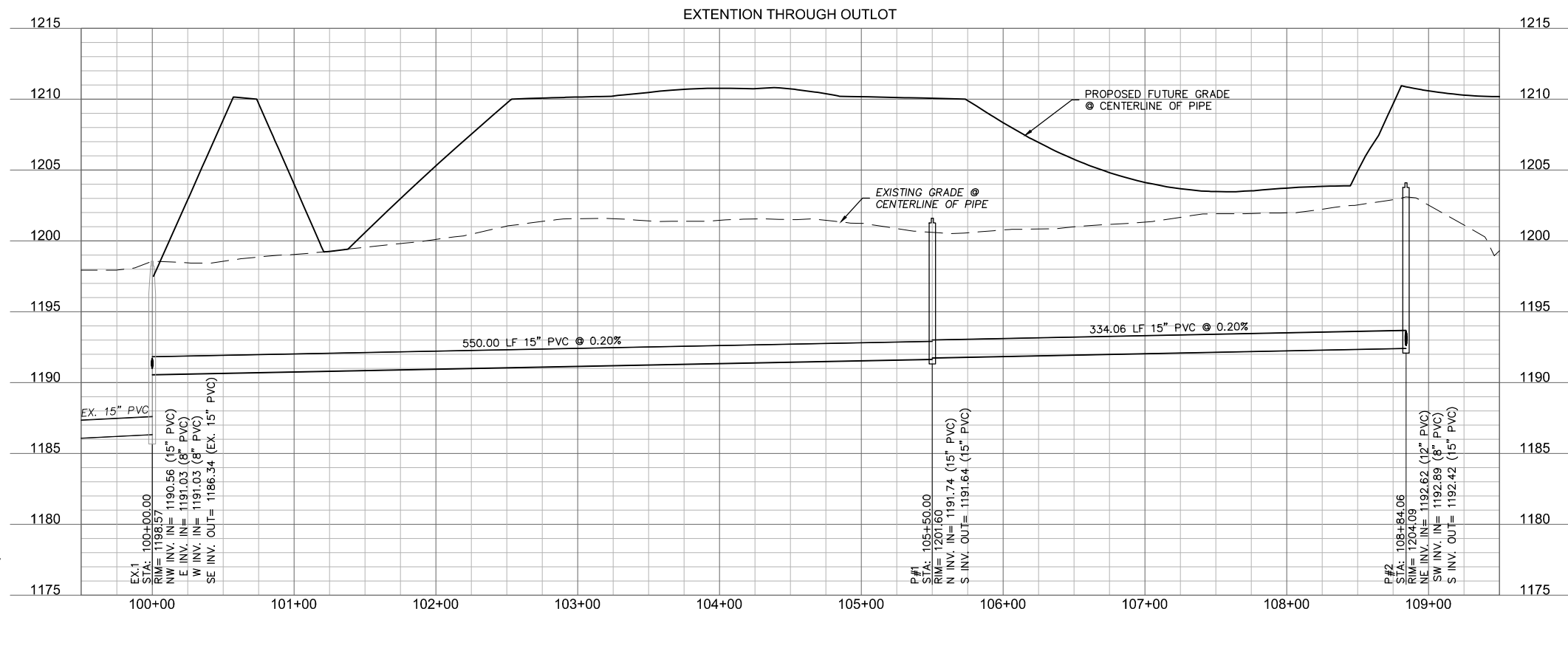
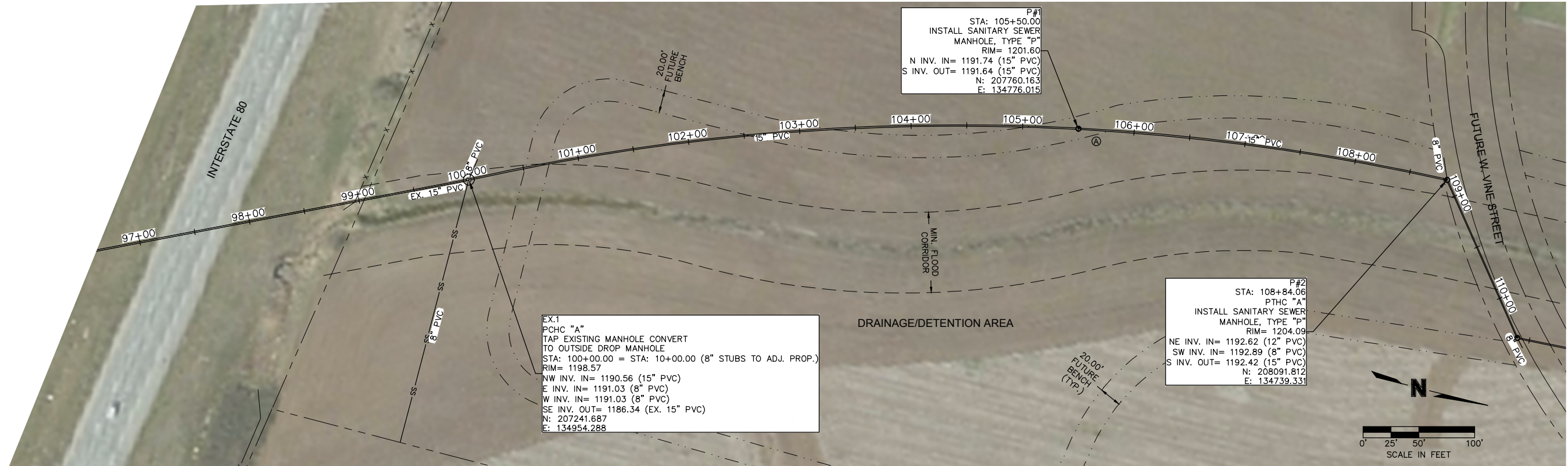
E.O.#	T.C.#	2017
NOTES AND QUANTITIES		
LWWS I-80 W. LINCOLN BUSINESS CENTER SANITARY TRUNK SEWER		
LINCOLN, NEBRASKA		
drawn by: BDB	checked by: BJM	approved by: JBD
QA/QC by: CTR	project no.: 016-3244	drawing no.:
date: 05.17.2017		
SHEET		
2 of 10		

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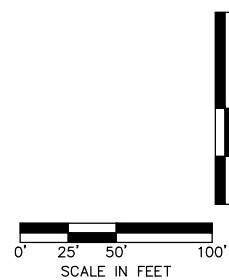
LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854

CURVE TABLE										
CURVE ID	RADIUS (FT)	DELTA	LENGTH (FT)	CHORD BEARING	CHORD LENGTH (FT)	EXTERNAL TANGENT (FT)	START DIRECTION	END DIRECTION	PCHC N/E	PTHC N/E
A	2000.00	025°19'35"	884.06	N14°11'24.08"W	876.88	449.37	N26°51'11.68"W	N01°31'36.47"W	N: 207241.69 E: 134954.29	N: 208091.81 E: 134739.33



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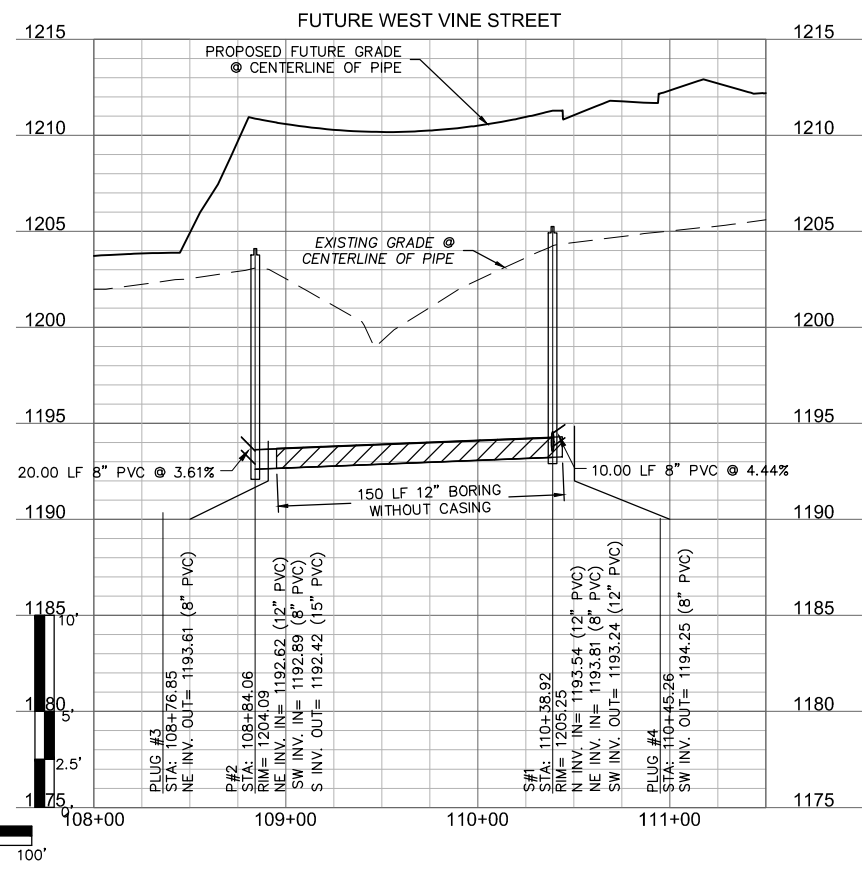
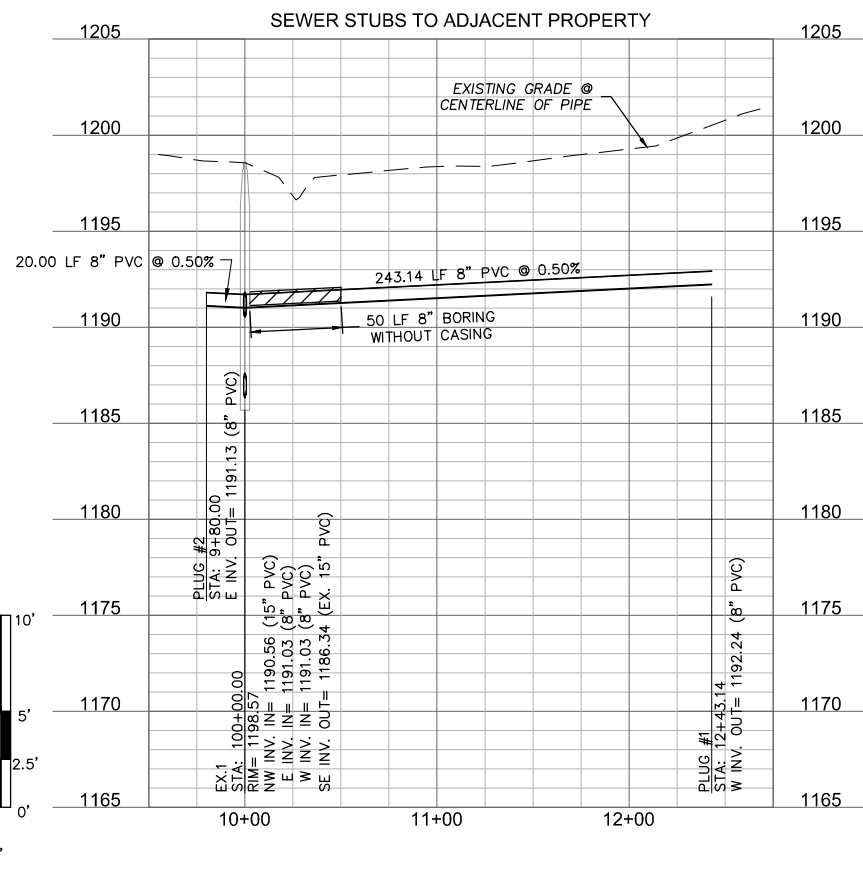
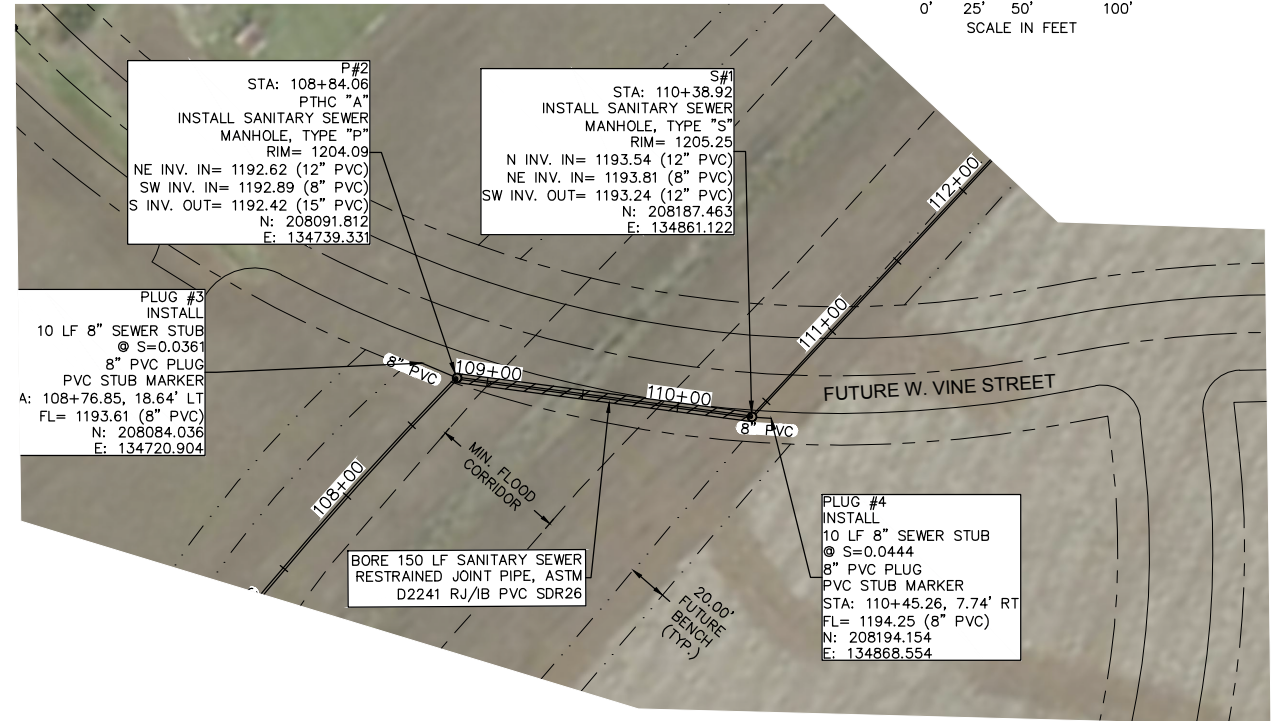
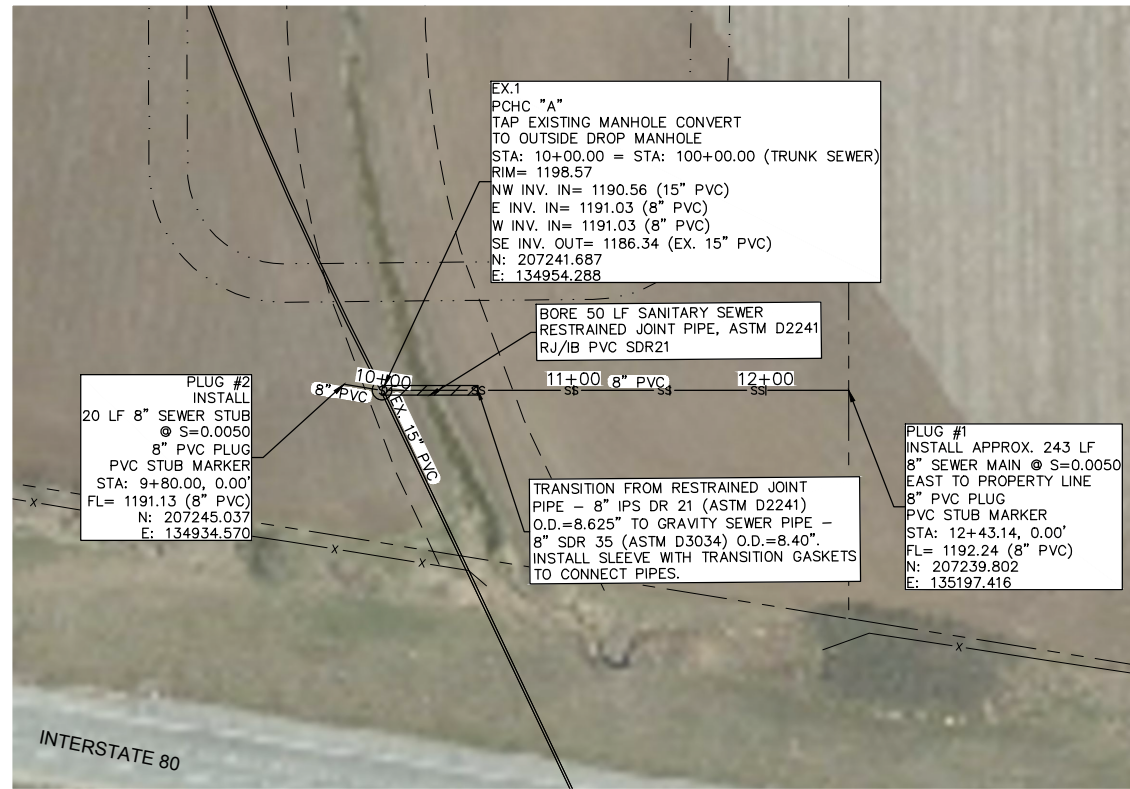
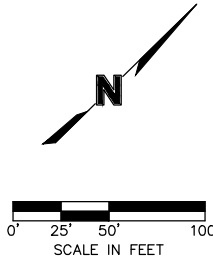


REV. NO.	DATE	REVISIONS DESCRIPTION

PLAN AND PROFILE	E.O.#	T.C.#	2017
LWWS I-80 W. LINCOLN BUSINESS CENTER SANITARY TRUNK SEWER			
LINCOLN, NEBRASKA			
drawn by: BDB		checked by: BJM	
approved by: JEB		QA/QC by: CTR	
project no.: 016-3244		drawing no.:	
date: 05.17.2017			
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LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854



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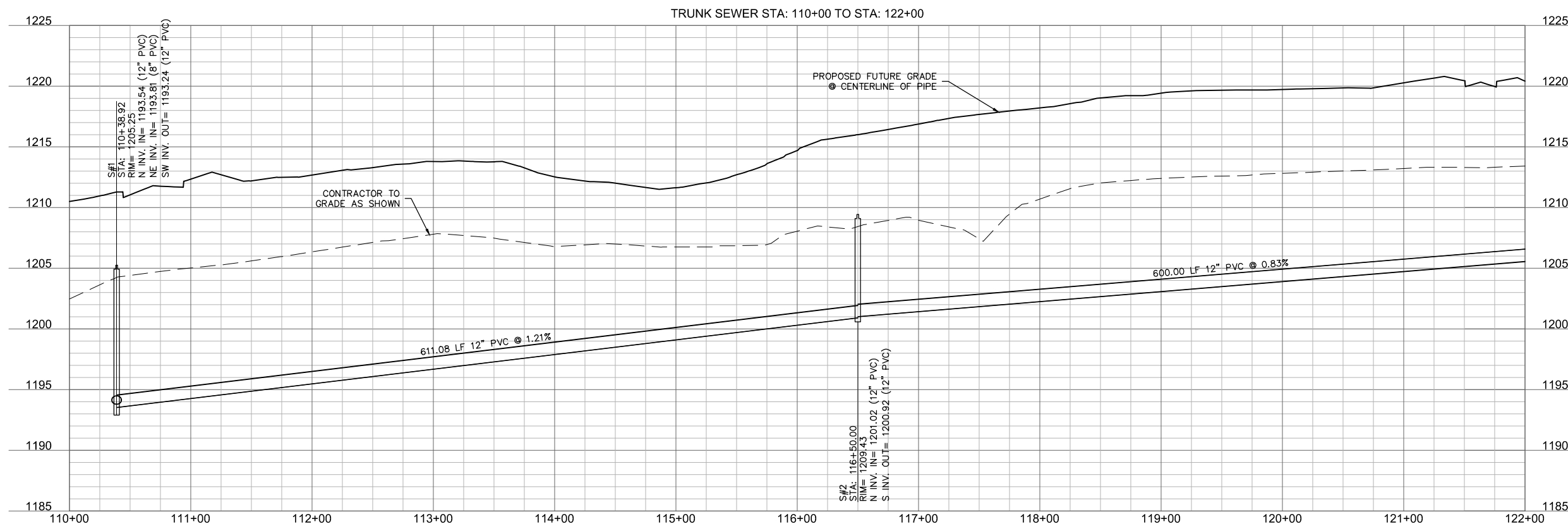
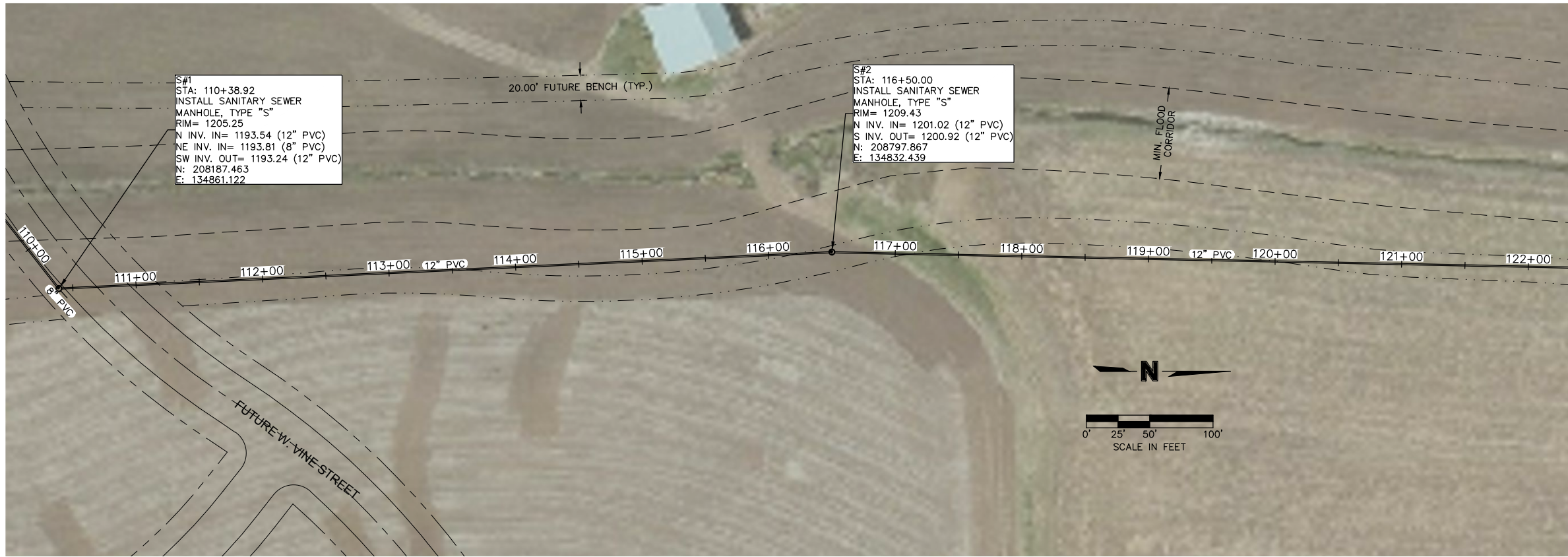
REV. NO.	DATE	REVISIONS DESCRIPTION

PLAN AND PROFILE	E.O.#	T.C.#	REVISIONS
LWWS I-80 W. LINCOLN BUSINESS CENTER SANITARY TRUNK SEWER			2017
LINCOLN, NEBRASKA			

drawn by: BBB
 checked by: BJM
 approved by: CTR
 project no.: 016-3244
 drawing no.:
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LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854



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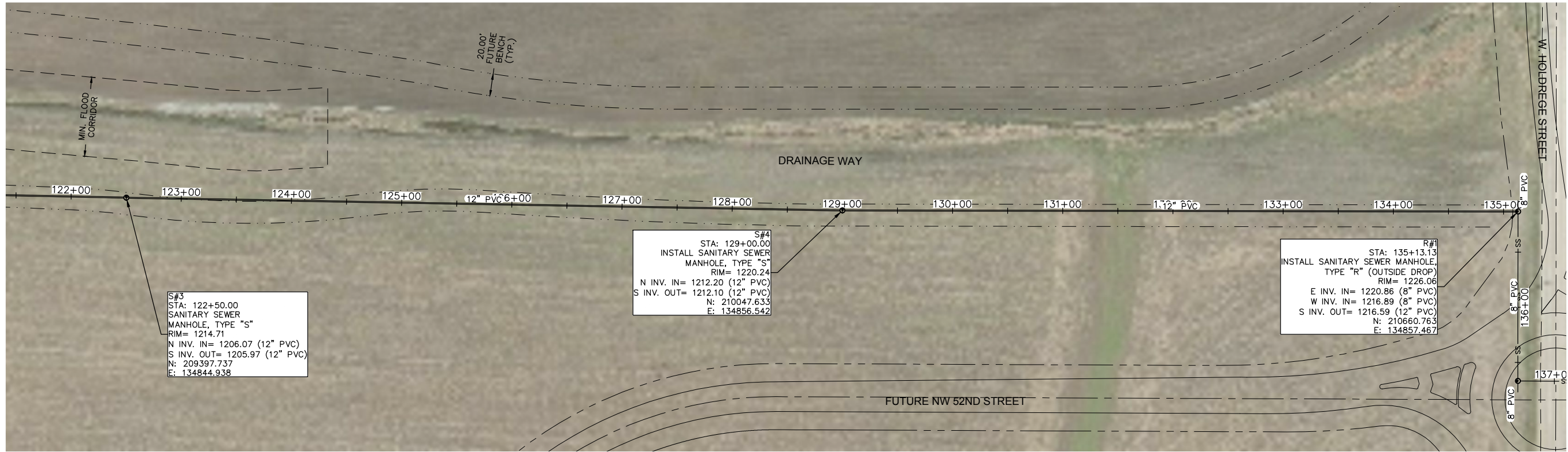
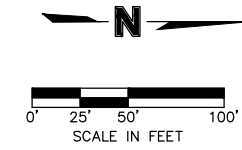
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PLAN AND PROFILE		LWWS I-80 W. LINCOLN BUSINESS CENTER SANITARY TRUNK SEWER LINCOLN, NEBRASKA
SHEET		5 of 10

drawn by: BDB
 checked by: BJM
 approved by: JED
 QA/QC by: CTR
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LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854

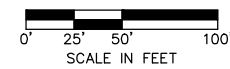
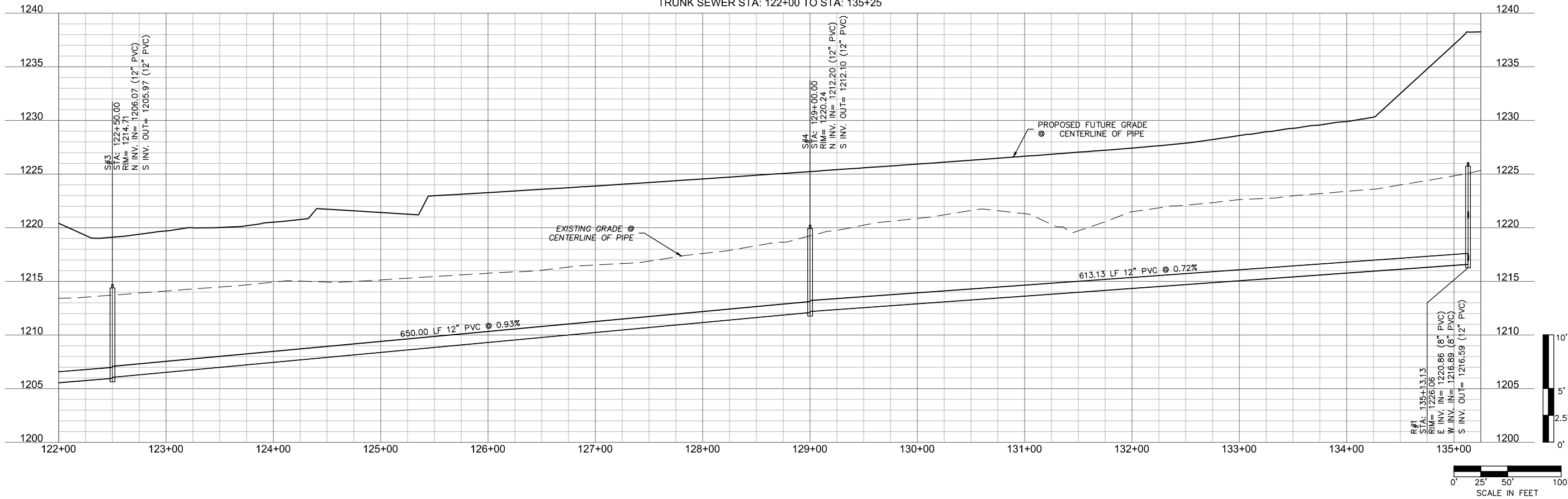


S#3
 STA: 122+50.00
 SANITARY SEWER
 MANHOLE, TYPE "S"
 RIM= 1214.71
 N INV. IN= 1206.07 (12" PVC)
 S INV. OUT= 1205.97 (12" PVC)
 N: 209397.737
 E: 134844.938

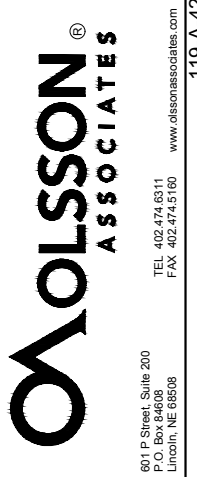
S#4
 STA: 129+00.00
 INSTALL SANITARY SEWER
 MANHOLE, TYPE "S"
 RIM= 1220.24
 N INV. IN= 1212.20 (12" PVC)
 S INV. OUT= 1212.10 (12" PVC)
 N: 210047.633
 E: 134856.542

R#1
 STA: 135+13.13
 INSTALL SANITARY SEWER MANHOLE,
 TYPE "R" (OUTSIDE DROP)
 RIM= 1226.06
 E INV. IN= 1220.86 (8" PVC)
 W INV. IN= 1216.89 (8" PVC)
 S INV. OUT= 1216.59 (12" PVC)
 N: 210660.763
 E: 134857.467

TRUNK SEWER STA: 122+00 TO STA: 135+25



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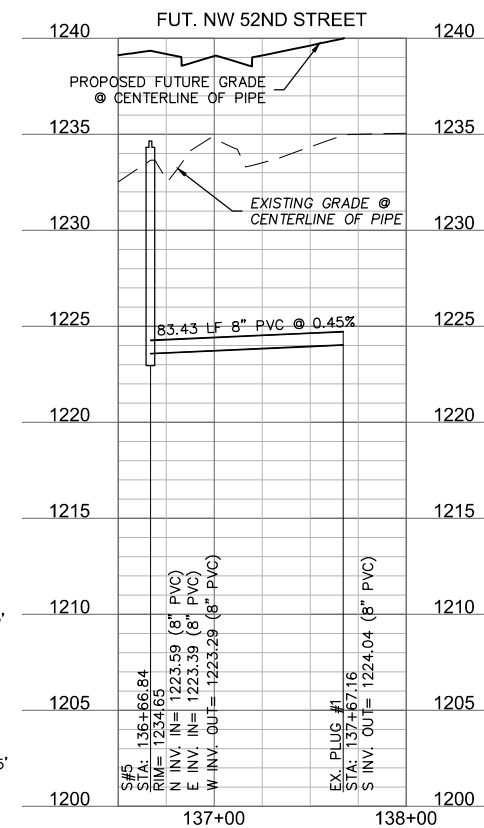
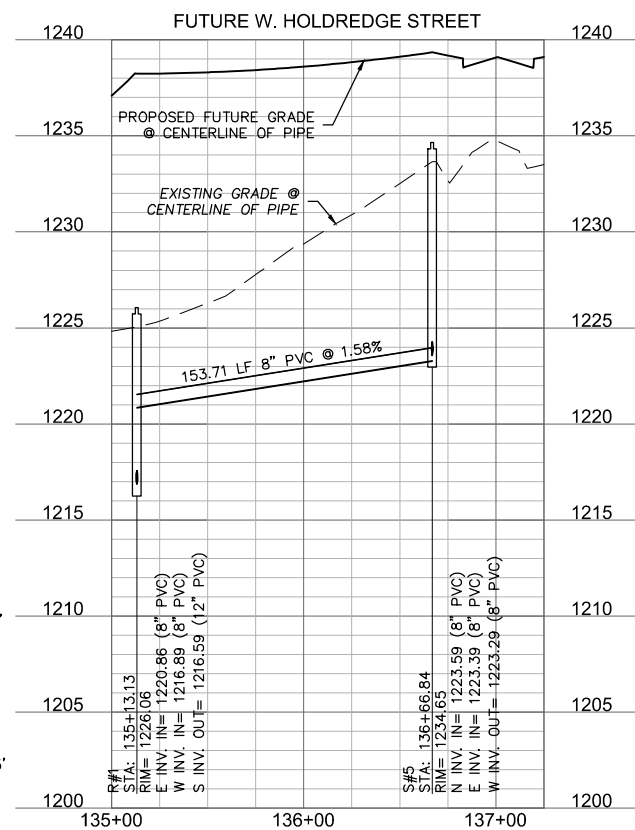
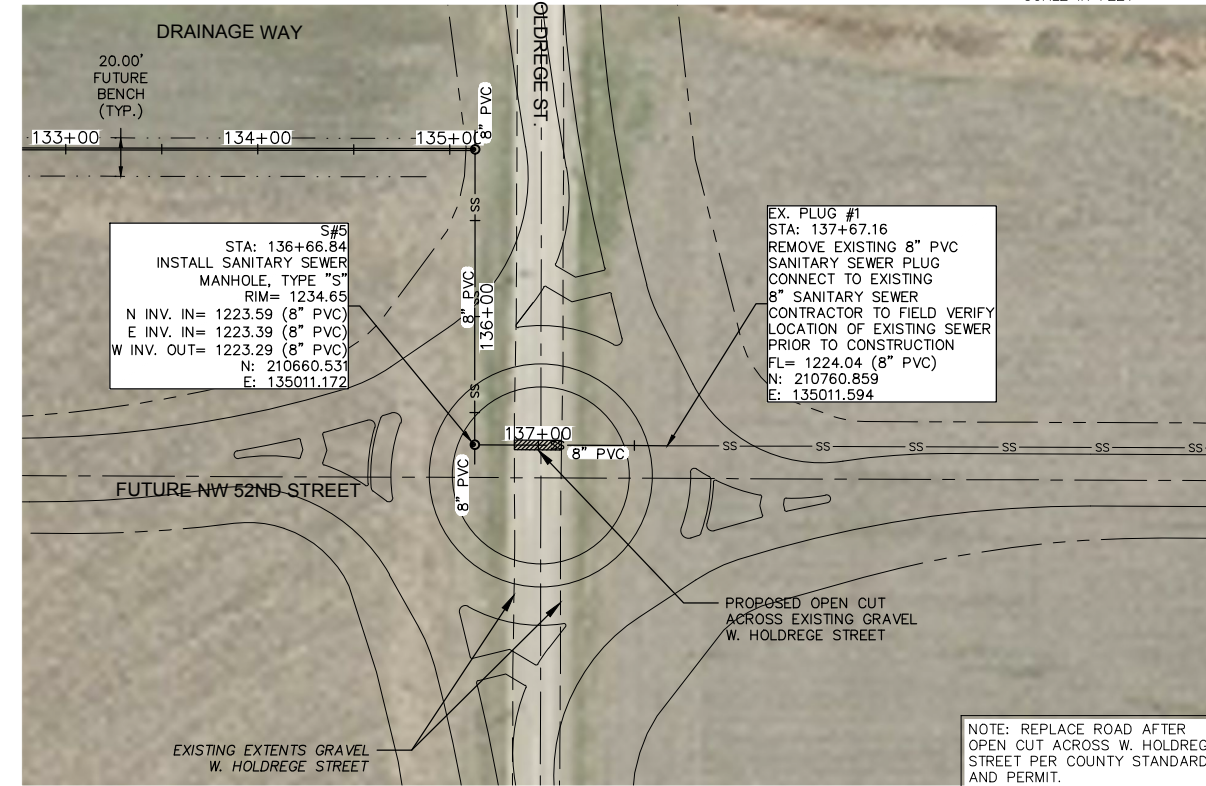
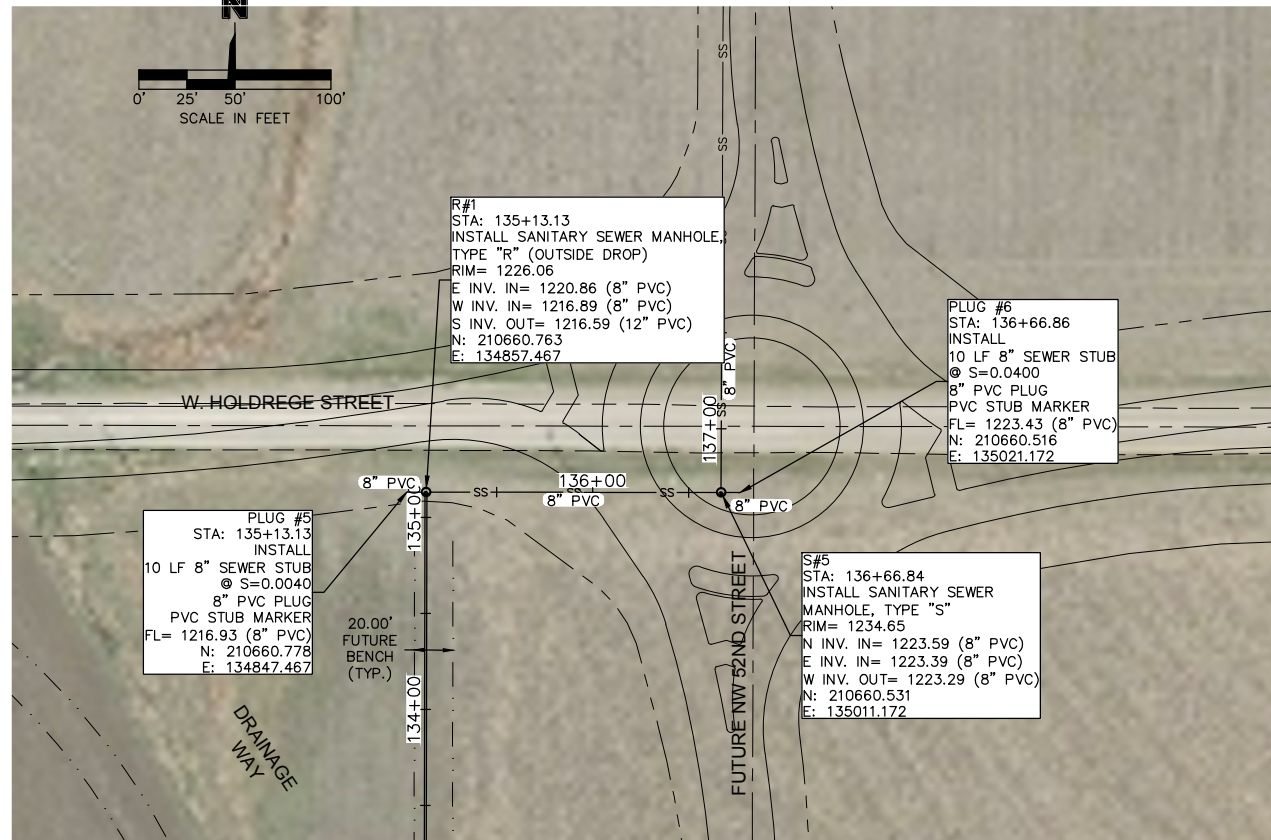
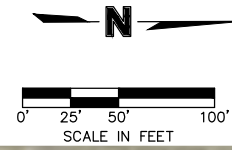
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PLAN AND PROFILE
 LWWS I-80 W. LINCOLN
 BUSINESS CENTER
 SANITARY TRUNK SEWER
 LINCOLN, NEBRASKA

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 QA/QC by: CTR
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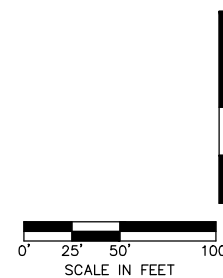
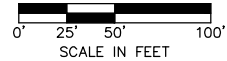
LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854



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PLAN AND PROFILE	E.O.#	T.C.#
	LWWS I-80 W. LINCOLN BUSINESS CENTER	SANITARY TRUNK SEWER
LINCOLN, NEBRASKA		2017

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LWWS I-80 W. LINCOLN BUSINESS CENTER

SANITARY SEWER C.I.P. #702854



VICINITY MAP
NOT TO SCALE

SITE INFORMATION	
TOTAL DISTURBED AREA	1.42 Ac.
TOTAL SITE AREA	1.42 Ac.
NPDES PERMIT IS REQUIRED	

EROSION AND SEDIMENT CONTROL GENERAL NOTES

- CONTRACTOR IS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NPDES CONSTRUCTION STORMWATER DISCHARGE PERMIT, AS APPROVED BY NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY AND CITY OF LINCOLN WATERSHED MANAGEMENT FOR THIS PROJECT SITE.
- CONTRACTOR IS REQUIRED TO IMPLEMENT AND MAINTAIN CONSTRUCTION STORMWATER BEST MANAGEMENT PRACTICES (BMPs) DURING ALL CONSTRUCTION ACTIVITY TO CONTROL POLLUTANTS AND SEDIMENT IN STORMWATER DISCHARGES FROM THE PROJECT SITE.
- THE PROJECT IS A DYNAMIC SITE WITH CHANGES TO THE CONDITIONS AND DRAINAGE PATTERNS DURING CONSTRUCTION ACTIVITY. CHANGES TO THE DRAINAGE PATTERNS OF THE PROJECT WILL REQUIRE ADDITIONAL BMPs TO BE INSTALLED BY THE CONTRACTOR TO MAINTAIN CONTROL OF POLLUTANTS AND SEDIMENT FROM STORMWATER DISCHARGE FROM THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF ALL SEDIMENT AND EROSION CONTROL BMPs AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24-HOURS OF ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION. FOR EACH INSPECTION WHICH IS PERFORMED AN INSPECTION REPORT MUST BE COMPLETED AND FILED WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN DOCUMENTATION.

AT A MINIMUM, THE INSPECTION REPORTS SHALL INCLUDE:

- TIME AND DATE OF INSPECTION
 - NAME AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION
 - WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (NUMBER OF STORM EVENTS AMOUNT OF RAINFALL IN EACH EVENT)
 - WEATHER INFORMATION AND A DESCRIPTION OF DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION
 - LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE
 - LOCATION OF EROSION CONTROL BMPs THAT NEED TO BE MAINTAINED
 - LOCATION OF BMPs THAT FAILED TO OPERATE EFFECTIVELY OR PROVED INADEQUATE FOR A PARTICULAR LOCATION
 - RECORDS OF THE GRADING ACTIVITIES SINCE THE LAST INSPECTION
 - LOCATIONS WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION.
 - CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWPPP NECESSARY AND IMPLEMENTATION DATES
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL BMPs IN AN EFFECTIVE WORKING CONDITION. IF SITE INSPECTIONS INDICATE BMPs ARE NOT OPERATING EFFECTIVELY, MAINTENANCE, REPAIR OR ADDITIONAL BMPs MUST BE PERFORMED WITHIN SEVEN (7) DAYS AND PRIOR TO THE NEXT STORM EVENT.
 - THIS EROSION AND SEDIMENT CONTROL PLAN IS ONE COMPONENT OF THE OVERALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. THE EROSION CONTROL PLAN AND THE SWPPP DOCUMENTS BOTH INCLUDE PROJECT REQUIREMENTS FOR COMPLIANCE WITH THE NPDES CONSTRUCTION STORMWATER DISCHARGE PERMIT.
 - THE CONTRACTOR SHALL HAVE CURRENT COPIES OF THE EROSION AND SEDIMENT CONTROL PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN DOCUMENTS ON THE PROJECT SITE AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN COMPLETE AND ACCURATE RECORDS WITHIN THE PROJECT SWPPP DOCUMENTATION INCLUDING: EROSION CONTROL INSPECTIONS, COPIES OF CURRENT EROSION CONTROL PLAN, COPIES OF CSW-NOI AND AUTHORIZATION TO DISCHARGE LETTER FROM NDEQ.

EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

- CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REMOVAL OF EROSION CONTROL BMPs FOR THE DURATION OF CONSTRUCTION ACTIVITIES UNTIL FINAL STABILIZATION ON THE PROJECT SITE HAS BEEN ACHIEVED.
- CONTRACTOR SHALL NOTIFY NEBRASKA ONE CALL (NEBRASKA 811), 1-800-331-5666 PRIOR TO PERFORMING ANY SOIL DISTURBANCE ACTIVITIES.
- PRIOR TO SOIL DISTURBANCE ACTIVITIES CONTRACTOR SHALL INSTALL PHASE 1 EROSION CONTROL BMPs FOR PROJECT SITE INCLUDING: PERIMETER SILT FENCE AND CONSTRUCTION ENTRANCES.
- REMOVE HERBACEOUS VEGETATION FROM WITHIN THE LIMITS OF THE GRADING, WHERE POSSIBLE, LEAVE VEGETATION BUFFER BETWEEN PERIMETER SILT FENCE AND NEIGHBORING PROPERTIES AND SENSITIVE AREAS.
- INSTALL PHASE 1 EROSION CONTROL BMPs IN COORDINATION WITH SITE GRADING PLAN. REFER TO BMP IMPLEMENTATION SCHEDULE FOR INSTALLATION AND REMOVAL SEQUENCE OF EROSION CONTROL BMPs.
- THE STRIPPING STOCKPILE SHALL BE LOCATED ON SITE BY THE GRADING CONTRACTOR AT TIME OF GRADING. THE STOCKPILE SHALL RECEIVE SILT FENCE PERIMETER CONTROL.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL STRUCTURES UNTIL FINAL SITE STABILIZATION IS ACHIEVED. REFER TO BMPs MAINTENANCE SCHEDULE. UPON FINAL STABILIZATION OF CONTRIBUTING AREAS, BMPs SHALL BE REMOVED BY THE CONTRACTOR. DISTURBANCES WHICH OCCUR DURING REMOVALS OF BMPs SHALL BE REPAIRED BY CONTRACTOR.

BEST MANAGEMENT PRACTICES (BMP) MAINTENANCE SCHEDULE

THE FOLLOWING MAINTENANCE SCHEDULE HAS BEEN PROVIDED. THE INSPECTOR MUST PERFORM THE INSPECTIONS. THE OPERATOR/CONTRACTOR MUST PERFORM ALL NEEDED MAINTENANCE. FURTHERMORE, ALL EROSION CONTROL FEATURE REQUIRING MAINTENANCE MAY NOT BE LISTED BELOW. THE OPERATOR/CONTRACTOR AND INSPECTOR MUST PERFORM THEIR RESPECTIVE DUTIES ON ALL BMPs THAT ARE NOT LISTED BELOW AS WELL.

- CONSTRUCTION ENTRANCE (CE)** – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR PRIVATE ROADWAY PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- SILT FENCE (SF)** – THE MAINTENANCE MEASURES ARE AS FOLLOWS: (3.1) SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL, ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY; (3.2) CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING; (3.3) SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY; (3.4) SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER; AND (3.5) ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED.
- STORM DRAIN INLET PROTECTION** – THE MAINTENANCE MEASURES ARE AS FOLLOWS: (4.1) STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NECESSARY AND (4.2) STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- TEMPORARY DIVERSION DIKE (DV)** – THE MEASURE SHALL BE INSPECTED AFTER EVERY STORM AND REPAIRS MADE TO THE DIKE, FLOW CHANNEL, OUTLET OR SEDIMENT TRAPPING FACILITY, AS NECESSARY. DAMAGES CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
- TEMPORARY SEDIMENT TRAP (ST)** – THE MAINTENANCE MEASURES ARE AS FOLLOWS: (7.1) SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN VOLUME OF THE WET STORAGE, SEDIMENT REMOVAL FROM THE BASIN SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS; (7.2) FILTER STONE SHALL BE REGULARLY CHECKED TO ENSURE THAT FILTRATION PERFORMANCE IS MAINTAINED, STONE CHOKED WITH SEDIMENT SHALL BE REMOVED AND CLEANED OR REPLACED; AND (7.3) THE STRUCTURE SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT, THE HEIGHT OF THE STONE OUTLET SHOULD BE CHECKED TO ENSURE THAT ITS CENTER IS AT LEAST 1 FOOT BELOW THE TOP OF THE EMBANKMENT.
- TEMPORARY SEDIMENT BASIN (SB)** – THE BASIN EMBANKMENT SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE EMERGENCY SPILLWAY SHOULD BE CHECKED REGULARLY TO ENSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION-RESISTANT. THE BASIN SHOULD BE CHECKED AFTER EACH RUNOFF PRODUCING RAINFALL FOR SEDIMENT CLEANOUT AND TRASH REMOVAL. WHEN THE SEDIMENT REACHES THE CLEANOUT LEVEL, IT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
- TEMPORARY SEEDING** – AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION WILL BE RE-SEEDING AS SOON AS SUCH AREAS ARE IDENTIFIED. CONTROL WEEDS BY MOWING.
- PERMANENT SEEDING** – THE MAINTENANCE MEASURES ARE AS FOLLOWS: (10.1) IN GENERAL, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL IT HAS BEEN MAINTAINED FOR ONE FULL YEAR AFTER PLANNING; (10.2) NEW SEEDLINGS SHALL BE SUPPLIED WITH ADEQUATE MOISTURE, SUPPLY WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY CONDITIONS, OR ON ADVERSE SITES. WATER APPLICATIONS SHALL BE CONTROLLED TO PREVENT EXCESSIVE RUNOFF; (10.3) INSPECT ALL SEEDING AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE; [10.3A] IF STAND IS INADEQUATE FOR EROSION CONTROL, OVER SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED; [10.3B] IF STAND IS 60% DAMAGED, RE-ESTABLISH FOLLOWING SEEDBED AND SEEDING RECOMMENDATIONS; [10.3C] IF STAND HAS LESS THAN 40% COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER, THE SOIL MUST BE TESTED TO DETERMINE IF ACIDITY OR NUTRIENT IMBALANCES ARE RESPONSIBLE, RE-ESTABLISH THE STAND FOLLOWING SEEDBED AND SEEDING RECOMMENDATIONS.
- MULCHING** – ALL MULCHES AND SOIL COVERINGS SHOULD BE INSPECTED PERIODICALLY (PARTICULARLY AFTER RAINSTORMS) TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHOULD BE APPLIED. NETS AND MATS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NETTING OR MATTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. INSPECTIONS SHOULD TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.
- SOIL STABILIZATION BLANKETS & MATTING (BL)** – ALL SOIL STABILIZATION BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL WHICH TIME THEY BECOME PERMANENTLY STABILIZED. AT THAT TIME AN ANNUAL INSPECTIONS SHOULD BE ADEQUATE.
- STREET CLEANING / SWEEPING** – THE MAINTENANCE MEASURES ARE AS FOLLOWS: (13.1) EVALUATE ACCESS POINTS DAILY FOR SEDIMENT TRACKING; (13.2) WHEN TRACKED OR SPILLED SEDIMENT IS FOUND ON PAVED SURFACES, IT WILL BE REMOVED DAILY, DURING TIMES OF HEAVY TRACK-OUT, SUCH AS DURING RAINS, CLEANING MAY BE DONE SEVERAL TIMES THROUGHOUT THE DAY; (13.3) UNKNOWN SPILLS OR OBJECTS WILL NOT BE MIXED WITH THE SEDIMENT; AND (13.4) IF SEDIMENT IS MIXED WITH OTHER POLLUTANTS, IT WILL BE DISPOSED OF PROPERLY AT AN AUTHORIZED LANDFILL.

EROSION CONTROL PRODUCT SPECIFICATIONS

- CONSTRUCTION ENTRANCE:**
 - AGGREGATE SHALL BE 2" TO 3.5" CLEAN CRUSHED ROCK. CRUSHED CONCRETE IS NOT ACCEPTABLE.
 - FILTER FABRIC SHALL BE WOVEN GEOTEXTILE FABRIC WITH A MINIMUM GRAB TENSILE STRENGTH OF 250 LBS.
 - CONSTRUCTION ENTRANCE SHALL BE A MINIMUM SIZE OF 24' X 70' LONG, FILTER FABRIC AND ROCK SHALL EXTEND THE FULL LENGTH OF THE ENTRANCE.
- SILT FENCE:**
 - 100% POLYPROPYLENE SILT FENCE FABRIC WITH A MINIMUM FILTERING EFFICIENCY OF 70%
 - MINIMUM GRAB STRENGTH TENSILE (120 LBS)
 - MINIMUM FABRIC HEIGHT 36"
 - FURROW POSTS SHALL BE STEEL "T" POSTS, MINIMUM OF 40" IN LENGTH
 - SILT FENCE INSTALLATION:** SILT FENCE SHALL BE KNIFE INTO EXISTING GRADE BY USE OF A SILT FENCE INSTALLATION MACHINE A MINIMUM DEPTH OF SIX (6") INCHES INTO THE GROUND. POSTS SHALL BE DRIVEN INTO GROUND A MINIMUM OF SIXTEEN (16") INCHES. POSTS SHALL BE SPACED A MINIMUM OF SIX (6") APART. SILT FENCE JOINTS SHALL OCCUR AT POST LOCATIONS ONLY, OVERLAP FENCE A MINIMUM OF 12" AT POSTS. CONNECT SILT FENCE FABRIC TO POSTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- EROSION CONTROL BLANKET**
 - TYPE 1: 100% STRAW FIBER MATRIX WITH PHOTODEGRADABLE POLYPROPYLENE TOP NET. APPROVED PRODUCT, NORTH AMERICAN GREEN DS150, OR APPROVED EQUAL.
 - TYPE 2: 70% STRAW FIBER/30% COCONUT MATRIX WITH HEAVYWEIGHT POLYPROPYLENE TOP NET. APPROVED PRODUCT, NORTH AMERICAN GREEN SC150, OR APPROVED EQUAL.
 - INSTALL AND SECURE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CURB INLET PROTECTION:**
 - MANUFACTURED INLET PROTECTOR WITH HIGH STRENGTH GEOTEXTILE FABRIC AND FILLED WITH RECYCLED TIRE RUBBER.
 - APPROVED PRODUCT: NILEX, BIG RED FILTER, OR APPROVED EQUAL
 - CURB INLET PROTECTOR SHALL BE OF SUFFICIENT LENGTH TO COVER THE ENTIRE CURB
 - INLET THROAT OPENING
 - INSTALL FLAT ON THE PAVEMENT IN FRONT OF CURB INLET, MAKING SURE THERE ARE NO OPENINGS AROUND THE INLET PROTECTOR WHICH SEDIMENT COULD ENTIRE THE INLET.
- COMPOST FILTER SOCK:**
 - COMPOST MEDIUM WRAPPED BY A MESH FABRIC, SECURELY FASTENED AT EACH END.
 - APPROVED PRODUCT: FILTREXX, SILTSOXX, OR APPROVED EQUAL
 - MINIMUM DIAMETER, 12"
 - INSTALL FILTER SOCK PARALLEL TO THE BASE OF A SLOPE, OR PERPENDICULAR TO SHEET FLOW. SOCK SHALL BE UNIFORMLY CONTACTING THE GROUND SURFACE. ANCHOR SOCK IN PLACE BY USE OF 2" X 2" WOODEN STAKES DRIVEN INTO GROUND AT SIX (6') FOOT MAXIMUM INTERVALS. DRIVE STAKES A MINIMUM OF 12" INTO GROUND SURFACE
- WATTLE LOG:**
 - STRAW FILLED TUBE OF FLEXIBLE NETTING MATERIAL. NETTING SHALL BE HIGH-DENSITY POLYETHYLENE AN NATURAL MATERIAL.
 - MINIMUM DIAMETER, 12"
 - INSTALL WATTLE SOCK PARALLEL TO THE BASE OF A SLOPE, OR PERPENDICULAR TO SHEET FLOW. SOCK SHALL BE UNIFORMLY CONTACTING THE GROUND SURFACE. SHAPE GROUND SURFACE BELOW WATTLE LOG WITH 2"-3" TRECH. ANCHOR WATTLE LOG IN PLACE BY USE OF 2" X 2" WOODEN STAKES DRIVEN INTO GROUND AT TWO (2') FOOT MAXIMUM INTERVALS. DRIVE STAKES A MINIMUM OF 12" INTO GROUND SURFACE.

SEEDING SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS:

- PRIOR TO SEEDING, ENSURE ALL EROSION CONTROL BMPs HAVE BEEN INSTALLED AND ARE IN ACCEPTABLE CONDITION.
- SEEDING SHALL BE INSTALLED ON A MINIMUM OF 6" OF TOPSOIL MATERIAL, UNLESS OTHERWISE SPECIFIED. TOPSOIL SHALL BE FREE OF ALL DEBRIS, ROOTS AND STONES LARGER THAN 1" IN THE LARGEST DIMENSION.
- FINISH GRADE THE AREA TO TO BE SEED TO PROVIDE A SMOOTH, FREE DRAINING AND EVEN SURFACE WITH A LOOSE, MODERATELY COARSE TEXTURE. ROLL AND RAKE, REMOVE RIDGES AND FILL DEPRESSIONS AS REQUIRED TO DRAIN.
- SEEDBED PREPARATION:
 - IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED OR HARDENED, THE SOIL SURFACE SHALL BE LOOSENED BY DISCING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS. SEEDBED PREPARATION SHOULD NOT BE UNDERTAKEN WHEN EXCESSIVELY WET CONDITIONS EXIST. SEEDBED SHALL BE PREPARED TO A DEPTH OF APPROXIMATELY 3 INCHES.
 - 150 LBS./ACRE OF 10-20 FERTILIZER SHOULD BE APPLIED TO THE SEEDBED, AND INCORPORATED INTO THE TOP 2-4 INCHES OF SOIL DURING SEEDBED PREPARATION. SOILS WHICH ARE HIGHLY ACIDIC SHOULD BE LIMITED.
- SEEDING:
 - CERTIFIED BLUE TAG SEED SHALL BE USED FOR ALL SEEDING OPERATIONS.
 - SEED FOR OUTLOTS AND LOW MAINTENANCE AREAS SHALL BE CITY OF LINCOLN, TYPE "T" OR APPROVED EQUAL.
 - SEED FOR LAWNS AND MEDIUM MAINTENANCE AREAS SHALL BE CITY OF LINCOLN, TYPE "B" OR APPROVED EQUAL.

SEEDING WINDOW

APRIL 15 – MAY 30, SEPTEMBER 1 – OCTOBER 15.

- SEED SHOULD BE EVENLY APPLIED WITH A DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER.
- SEED SHALL BE MULCHED WITH HAY OR STRAW AND CRIMPED IN PLACE.
- SEEDED AREAS SHALL BE WATERED IMMEDIATELY FOLLOWING INSTALLATION. WATERING SHALL BE MAINTAINED FOR FOURTEEN DAYS FOLLOWING SEED INSTALLATION.

MAINTENANCE:

- AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION SHALL BE RE-SEEDING AS SOON AS SUCH AREAS ARE IDENTIFIED. CONTROL WEEDS BY MOWING.

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REV. NO.	DATE	REVISIONS DESCRIPTION

E.O.#	T.C.#

E&S NOTES

LWWS I-80 W. LINCOLN BUSINESS CENTER
SANITARY TRUNK SEWER
LINCOLN, NEBRASKA

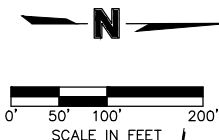
drawn by: BDB
checked by: BJM
approved by: JED
QA/QC by: CTR
project no.: 016-3244
drawing no.:
date: 05.17.2017

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Know what's below. Call before you dig.

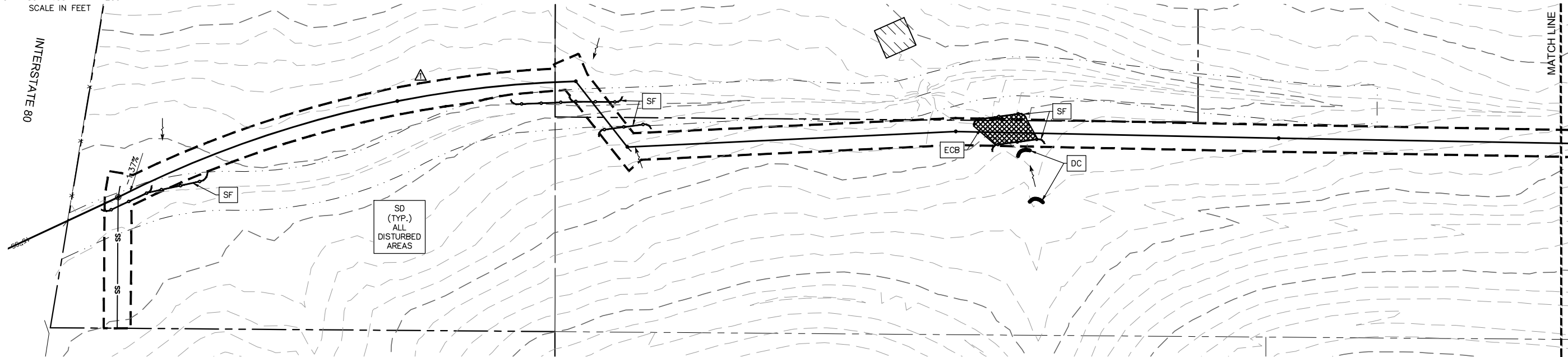
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LWWS I-80 W. LINCOLN BUSINESS CENTER

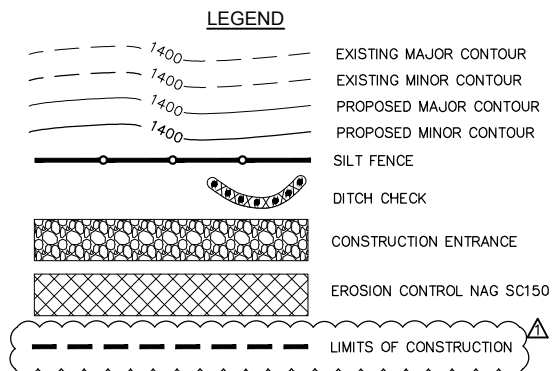
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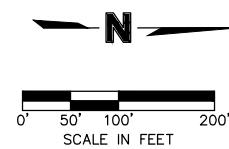


MATCH LINE



BMP IMPLEMENTATION SCHEDULE

SPECIFIED BMP	INSTALLATION	REQUIRED MAINTENANCE	REMOVAL
VEGETATED BUFFER/FILTER STRIP	PRESERVE BUFFER STRIPS NEIGHBORING SENSITIVE AREAS	WEED AND PEST CONTROL, MOVING, FERTILIZING, IRRIGATING, AND PRUNING, INSPECT FOR VEGETATION FOR CONTINUED ESTABLISHMENT	ADOPT BUFFER INTO FINAL LANDSCAPE
CONSTRUCTION ENTRANCE	UPON MOBILIZATION OF GRADING CONTRACTOR	ADD OR REPLACE ROCK AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING.
SILT FENCE	IMMEDIATELY FOLLOWING CLEARING AND GRUBBING AROUND PERIMETER	REPAIR WASH-OUTS, DOWNED FABRIC, AND REMOVE SEDIMENT WHEN DEPTH IS 1/2 THE HEIGHT OF THE FABRIC.	95% VEGETATIVE COVER ON UPSTREAM AREAS.
TEMPORARY SEEDING	IMMEDIATELY FOLLOWING MAJOR GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; CONTROL WEEDS; ENSURE GOOD STAND IS MAINTAINED	N/A
CONCRETE WASHOUT	UPON MOBILIZATION OF UTILITY CONTRACTOR	REMOVE CONCRETE RUBBLE AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING.
PERMANENT SEEDING	IMMEDIATELY FOLLOWING FINISHED GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; CONTROL WEEDS; ENSURE GOOD STAND IS MAINTAINED	N/A
HYDROSEEDING/HYDROMULCHING	IMMEDIATELY FOLLOWING FINISHED GRADING	INSPECT FOR EROSION, ADD MULCH AND/OR SEED AS NECESSARY	N/A
MULCHING		INSPECT FOR EROSION, ADD MULCH AS NECESSARY UNTIL GRASSES ARE FIRMLY ESTABLISHED	N/A



EROSION CONTROL IMPROVEMENT LEGEND

- [CE]** CONSTRUCTION ENTRANCE/EXIT TO BE BUILT BY CONTRACTOR. MINIMUM 24" WIDE X 70' LONG FROM EXISTING ROAD. 2" TO 3.5" CLEAN STONE, 6" THICK MIN. WITH GEOTEXTILE FILTER FABRIC, PER DETAIL SHEET
- [SF]** SILT FENCE MUST BE INSTALLED IN NO GREATER THAN 100' RUNS. THE ENDS OF EACH RUN MUST TURN UPHILL ('J' HOOKS) FOR AN APPROPRIATE DISTANCE TO KEEP WATER FROM FLOWING TO THE NEXT SECTION OF SILT FENCE. (TYPICAL), PER DETAIL SHEET
- [SD]** SEEDING SHALL BE PROVIDED BY CONTRACTOR. CONTRACTOR TO COORDINATE WITH SEED INSTALLER FOLLOWING FINAL GRADING.
- [SI]** INSTALL SWPPP INFORMATION SIGN, PER DETAIL SHEET
- [CW]** INSTALL CONCRETE WASHOUT, PER DETAIL SHEET

CONTROL POINTS

PNT.	NORTHING	EASTING	DESC.
1	210692.72	136545.47	2" ALUM. CAP NE. CORNER NW. QUARTER SEC. 19-10-06
2	210696.41	134097.23	2" ALUM. CAP NW. CORNER NW. QUARTER SEC. 19-10-06
3	208053.99	134075.79	2" ALUM. CAP SW. CORNER NW. QUARTER SEC. 19-10-06
5	208620.16	134055.99	3/4" REBAR
6	210718.33	135531.82	3/4" REBAR

BENCHMARKS

1. CHISELED SQUARE ON S. RIM OF LT&T MANHOLE, NE. CORNER NW. 48TH STREET AND W. HOLDREGE STREET. ELEV.=1281.55 (N.A.V.D. 1988)
2. CHISELED SQUARE S. SIDE OF HEADWALL, APPROX. 0.3 MILE S. OF NW. 48TH STREET AND W. HOLDREGE STREET. ELEV.=1253.96 (N.A.V.D. 1988)
3. CHAIR NAILS IN POWER POLE, 5TH POLE W. OF NW. 48TH STREET AND W. HOLDREGE STREET. ELEV.=1259.13 (N.A.V.D. 1988)
4. CHAIR NAILS IN POWER POLE, 4TH POLE E. OF NW. 56TH STREET AND W. HOLDREGE STREET. ELEV.=1224.44 (N.A.V.D. 1988)
5. NAIL IN POWER POLE, NW. CORNER NW. 56TH STREET AND W. HOLDREGE STREET. ELEV.=1255.78 (N.A.V.D. 1988)
6. RR SPIKE IN 3RD POWER POLE S. OF NW. 56TH STREET AND W. HOLDREGE STREET. ELEV.=1247.18 (N.A.V.D. 1988)



REV. NO.	DATE	REVISIONS DESCRIPTION
1	6.23.17	SHOWED LIMITS OF CONSTRUCTION

E.O.#	T.C.#

E&S PLAN
LWWS I-80 W. LINCOLN BUSINESS CENTER
SANITARY TRUNK SEWER
LINCOLN, NEBRASKA

drawn by:	BDB
checked by:	BJM
approved by:	JED
QA/QC by:	CTR
project no.:	016-3244
drawing no.:	
date:	05.17.2017

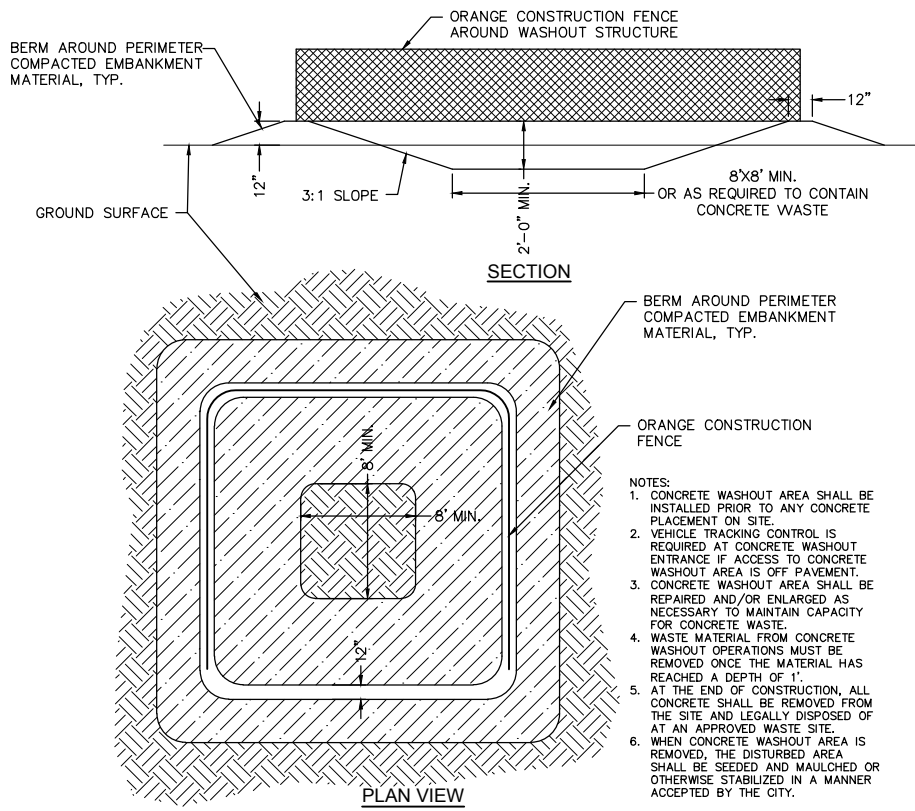
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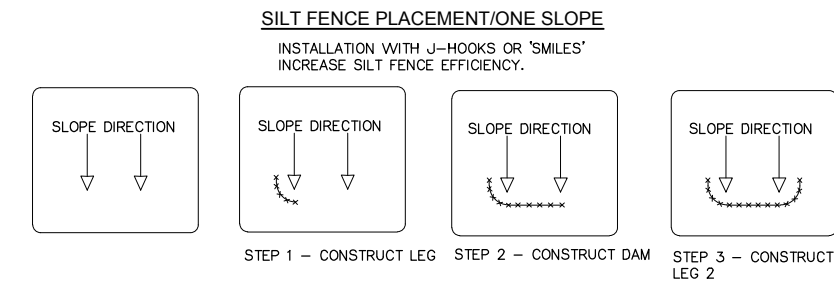
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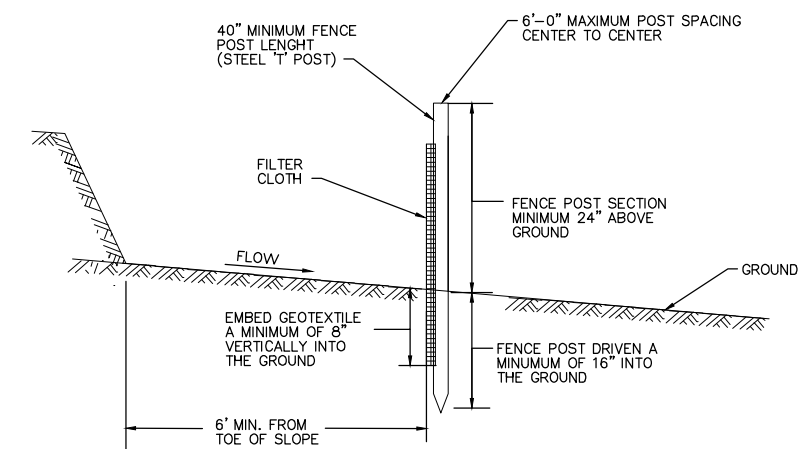
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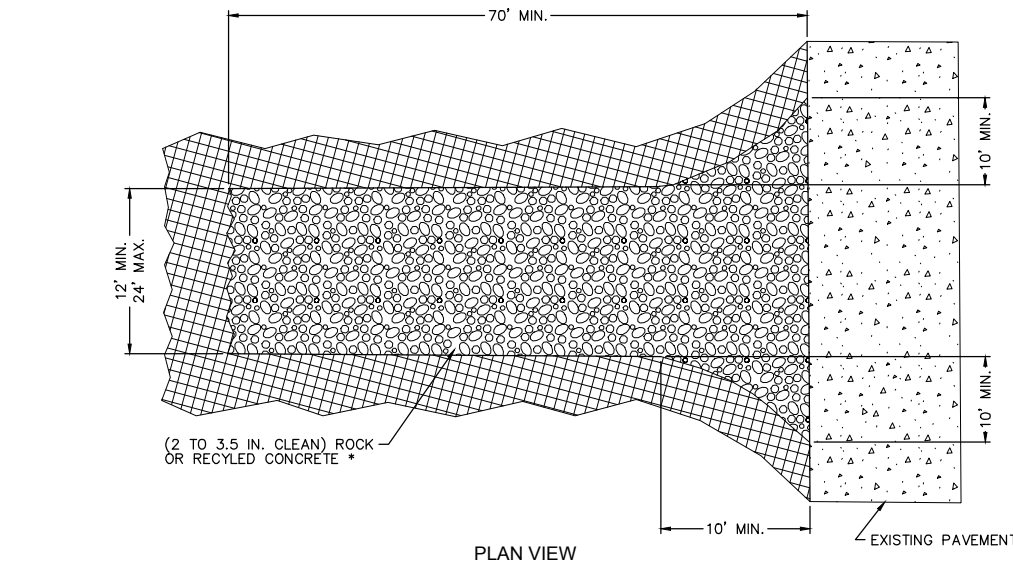
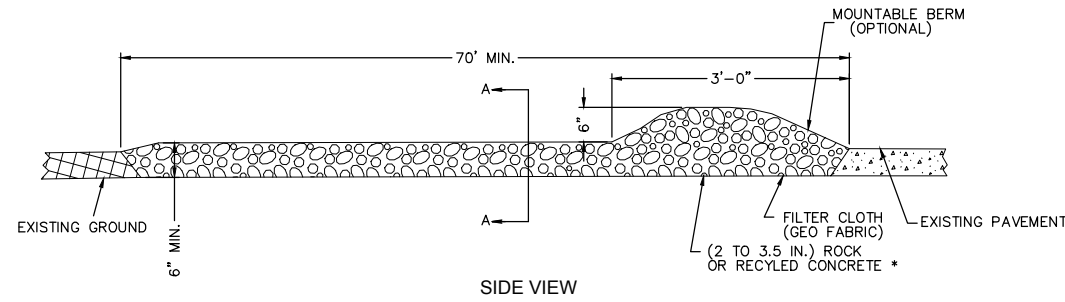
CONCRETE WASHOUT AREA DETAIL
NO SCALE



SILT FENCE PLACEMENT/ONE SLOPE
INSTALLATION WITH J-HOOKS OR 'SMILES'
INCREASE SILT FENCE EFFICIENCY.

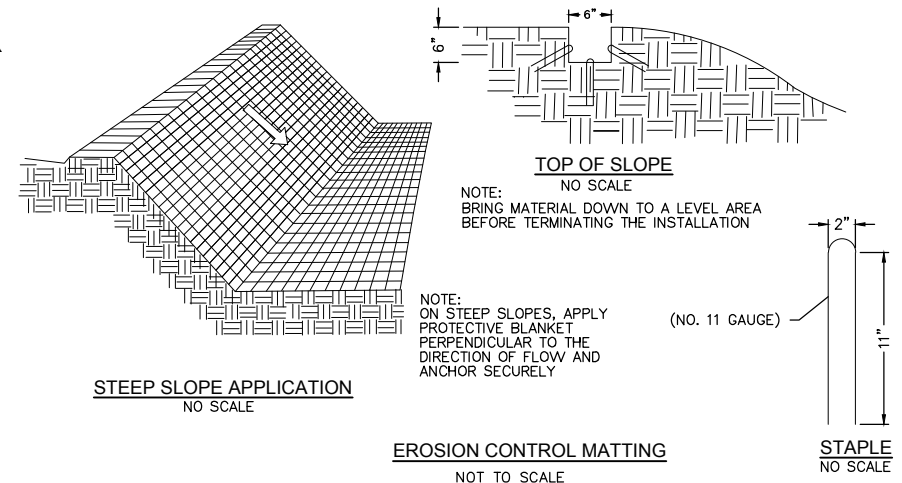


SILT FENCE DETAIL
NOT TO SCALE



- NOTE:**
- * MUST EXTEND THE FULL WIDTH AND LENGTH OF THE CONSTRUCTION ENTRANCE
 - THE 24'-0" WIDTH IS REQUIRED WHEN THE INGRESS AND THE EGRESS ARE THE SAME
 - REFER TO CHAPTER 8 AND 9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL FOR MORE INFORMATION OF SEDIMENT AND EROSION CONTROL MEASURES
 - FOR ROCK DIMENSIONS AND SPECIFICATIONS SEE TABLE ON LINCOLN STANDARD PLAN NO. 177

CONSTRUCTION ENTRANCE DETAIL
SCALE: NOT TO SCALE



EROSION CONTROL MATTING
NOT TO SCALE

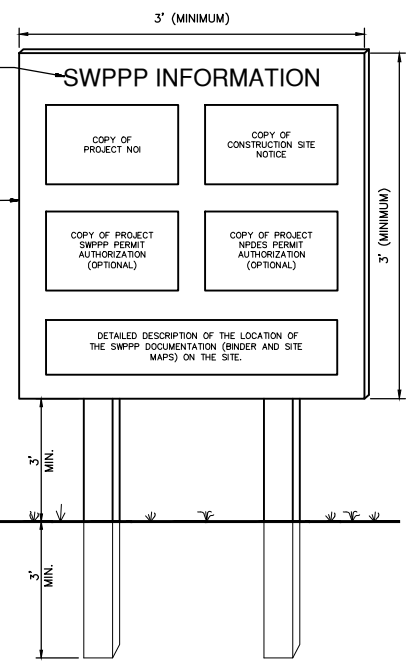
- SITE PREPARATION:**
AFTER THE SITE HAS BEEN GRADED AND SHAPED, PREPARE A SEED BED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN 1 1/2 INCHES IN DIAMETER AND ANY FOREIGN MATERIAL THAT WILL PREVENT UNIFORM CONTACT OF THE PROTECTIVE COVERING WITH THE SOIL SURFACE.
- PLANTING:**
FERTILIZE AND SEED IN ACCORDANCE WITH THE SEEDING OR PLANTING PLAN. WHEN USING JUTE MESH ON A SEEDED AREA, APPLY APPROXIMATELY ONE HALF THE SEED AFTER LAYING THE MAT. THE PROTECTIVE COVERING CAN BE LAID OVER AREAS WHERE SMALL GRASS PLANTS HAVE BEEN INSERTED INTO THE SOIL WHERE GROUND COVERS ARE TO BE PLANTED. LAY THE PROTECTIVE COVERING FIRST AND THEN PLANT THROUGH THE MATERIAL AS PER PLANTING PLAN.
- INSTALLATION:**
- STARTING LAYING THE PROTECTIVE COVERING FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL DOWN HILL. ALLOW TO LAY LOOSELY ON SOIL DO NOT STRETCH.
 - UP SLOPE ENDS OF THE BLANKET SHOULD BE BURIED IN AN ANCHOR SLOT NO LESS THAN 6 INCHES DEEP. TAMP EARTH.
 - EXTEND BLANKET ABOUT 40 INCHES OVER THE TOP OF SLOPE WHEN MATERIAL IS RELATIVELY FLAT. STAPLE EDGES OF THE MATERIAL SHALL BE STAPLED EVERY 3 FT. WHERE MULTIPLE WIDTHS ARE LAID SIDE BY SIDE. THE ADJACENT EDGE SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND STAPLED TOGETHER.
 - STAPLE PATTERNS VARY REFER TO CITY ENGINEER SPECIAL PROVISIONS OR PRODUCT MANUFACTURER FOR APPROPRIATE PATTERNS.

"SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).

- NOTES:**
- THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
 - ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
 - CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
 - SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
 - CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN
NOT TO SCALE



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REV. NO.	DATE	REVISIONS DESCRIPTION

E.O.#	T.C.#

E&S&C DETAILS
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SANITARY TRUNK SEWER
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