



## Addendum 1

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August 31, 2016

Big Red Restaurant  
Lincoln, Nebraska  
Project: 15-10013

This addendum is hereby made a part of the contract documents to the same extent as though it were originally included therein. Specifications and drawings shall be considered modified or revised as hereinafter described.

Addendum drawings provided by the following consultants are included as part of this addendum

- The Clark Enersen Partners
- Advanced Engineering Systems

Sheet T1.0

Revised legal description due to re-plat of lots

Sheets C1.1, C2.1, C3.1, C3.2, C4.1, C4.2, C5.1, C6.1, L1.1, L2.1

Revised all civil and landscape sheets to reflect re-plat of lots

Sheets M5.0 Detail D10

Corrected water service detail to show 2" meter, backflows, and piping

End of Addendum

# BIG RED RESTAURANT

## LEGAL DESCRIPTION:

APPIAN WAY 14TH ADDITION, LOTS 1  
CITY OF LINCOLN, LANCASTER COUNTY, NEBRASKA

## GENERAL NOTES:

- THESE DRAWINGS, AND COPIES THEREOF, ARE LEGAL INSTRUMENTS OF SERVICE FOR USE OF THE OWNER ONLY.
- ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS, WHICH ARE NECESSITATED BY FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL WORK DONE SHALL CONFORM TO THE APPLICABLE EDITION OF THE INTERNATIONAL BUILDING CODE AND THE STATE AND LOCAL BUILDING CODES.
- EACH TRADE SHALL BE HELD RESPONSIBLE FOR KNOWLEDGE OF THE GENERAL NOTES INCLUDED THROUGHOUT THE CONTRACT DOCUMENTS AND THE APPLICABLE BUILDING CODES.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD CONDITIONS PRIOR TO BIDDING. CONTRACTOR ACKNOWLEDGES REVIEW OF CONDITIONS AND INTENT OF ALL CONSTRUCTION DOCUMENTS UPON SUBMITTING BID.
- ALL COLORS AND FINISH MATERIALS SHALL BE SELECTED BY THE OWNER AND/OR HIS AGENT.
- NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- ALL DIMENSIONS ARE TO FACE OF STUD OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
- PROVIDE FIRE BLOCKING @ 10' VERTICAL INTERVALS IN ALL WOOD FRAMED WALLS OVER 10'.
- GYP. BD. WALLS NOT TO EXCEED 30 FT W/O A CONTROL JOINT. UNDIVIDED GYP. BD. SURFACES NOT TO EXCEED 900 SQ. FT.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED.
- ALL SUBCONTRACTORS SHALL PROVIDE AND INSTALL APPROVED UL SYSTEMS FOR ALL PENETRATIONS OF RATED ASSEMBLIES MADE BY THEIR DISCIPLINE INCLUDING BUT NOT LIMITED TO FIRE CAULKING, DAMPERS, AND OTHER FIRE INTUMESCENT SYSTEMS.
- ALL SIGNS SHALL BE UNDER SEPARATE PERMIT BY SIGN CONTRACTOR. SIGNS SHOWN ARE FOR REFERENCE ONLY.

## GOVERNING CODES:

2012 INTERNATIONAL BUILDING CODE  
2009 INTERNATIONAL ENERGY CONSERVATION CODE  
2009 UNIFORM PLUMBING CODE  
2009 INTERNATIONAL MECHANICAL CODE  
2014 NATIONAL ELECTRICAL CODE  
2004 INTERNATIONAL FUEL GAS CODE  
2000 LIFE SAFETY 101  
2010 ADA STANDARDS

- THIS IS A GENERAL LIST OF GOVERNING CODES. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY THAT ALL GOVERNING CODES ARE BEING MET.

## BUILDING / CODE NOTES:

ZONE: B-5  
FLOOD PLAIN: NO  
SPECIAL USE PERMITS: YES  
CONST. TYPE: V-B  
STORIES: 1  
BUILDING HEIGHT: 28'  
FIRE SPRINKLERS: FULLY SPRINKLED  
FIRE ALARMS: NO  
OCCUPANCY: A-2

GROSS BUILDING AREA: 6,149 S.F. (IBC)  
USABLE BUILDING AREA: 5,823 S.F. (ZONING)



DRAWING LIST	
SHEET	DRAWINGS
T1.0	TITLE PAGE / CODE INFORMATION
C1.1	EXISTING CONDITIONS / SITE DEMOLITION
C2.1	SITE PLAN
C3.1	GRADING PLAN
C3.2	EROSION CONTROL PLAN
C3.1	GRADING PLAN
C3.2	EROSION CONTROL PLAN
C4.1	SITE UTILITY PLAN
C4.2	STORM SEWER PLAN
C5.1	PAVING PLAN
C6.1	CONSTRUCTION DETAILS
L1.1	PLANTING PLAN
L2.1	IRRIGATION PLAN
A0.1	SPECIFICATIONS
A0.2	SPECIFICATIONS
A1.1	FLOOR PLAN
A1.2	EQUIPMENT PLAN
A1.3	ROOF PLAN
A1.4	ENLARGED PLANS / PLAN DETAILS
A1.5	PLAN DETAILS
A1.6	PLAN DETAILS
A2.1	NORTH & SOUTH BUILDING ELEVATIONS
A2.1C	NORTH & SOUTH BUILDING ELEVATIONS - COLOR
A2.2	WEST & EAST BUILDING ELEVATIONS
A2.2C	WEST & EAST BUILDING ELEVATIONS - COLOR
A3.1	BUILDING SECTIONS & DETAILS
A3.2	BUILDING SECTIONS & DETAILS
A3.3	BUILDING SECTIONS & DETAILS
A3.4	BUILDING SECTIONS & DETAILS
A3.5	BUILDING SECTIONS & DETAILS
A3.6	BUILDING SECTIONS & DETAILS
A3.7	ROOF LADDER DETAILS
A3.8	DUMPSTER ENCLOSURE DETAILS
A4.1	DOOR & WINDOW SCHEDULES / ELEVATIONS / DETAILS
A5.1	INTERIOR ELEVATIONS
A5.2	CASEWORK SECTIONS
A5.3	FINISH PLAN & FINISH SCHEDULES
A6.1	REFLECTED CEILING PLAN

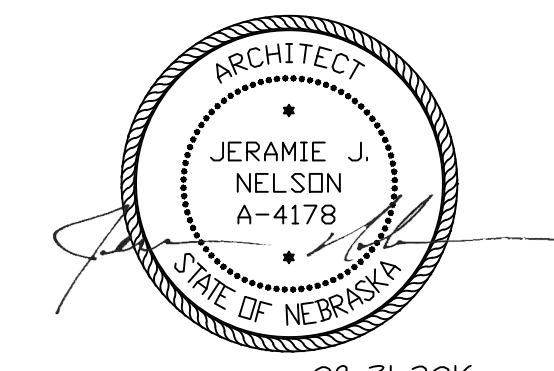
SHEET	DRAWINGS
S1.1	STRUCTURAL NOTES
S1.2	STRUCTURAL SCHEDULES
S2.1	FOUNDATION PLAN
S2.2	ROOF FRAMING PLAN
S2.3	JOIST LOADING DIAGRAM
S3.1	STRUCTURAL DETAILS
S3.2	STRUCTURAL DETAILS
S3.3	STRUCTURAL DETAILS
M1.0	PLUMBING FLOOR PLAN / DETAILS
M1.1	DOMESTIC WATER PLANS
M1.2	HVAC / MECHANICAL ROOF PLAN
M2.0	HVAC FLOOR PLAN
M3.0	MECHANICAL SPECIFICATIONS AND SCHEDULES
M4.0	HVAC SPECIFICATIONS AND SCHEDULES
M5.0	HVAC AND PLUMBING DETAILS
E0.1	ELECTRICAL SITE PLAN
E1.0	LIGHTING FLOOR PLAN
E2.0	POWER FLOOR PLAN
E2.1	KITCHEN PLAN & EQUIPMENT CONNECTION SCHEDULE
E2.2	POWER ROOF PLAN
E3.0	LIGHTING SCHEDULES
E3.1	ELECTRICAL SCHEDULES
E4.0	ELECTRICAL & TELEPHONE ONE-LINE DRAWINGS
E5.0	ELECTRICAL SPECIFICATIONS
E6.0	ELECTRICAL SYMBOLS & GENERAL NOTES

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REVISIONS  
ADDENDUM #1

DATE  
31 AUG 16

NO. 1



I, JERAMIE NELSON, AM THE COORDINATING PROFESSIONAL FOR THE BIG RED RESTAURANT PROJECT.

**BIG RED**  
**RESTAURANT**  
**84TH & HWY 2**  
**LINCOLN, NE**

TITLE PAGE

Project: 15-10013

Date: 19 AUG 2016

Revision Date: 31 AUG 2016

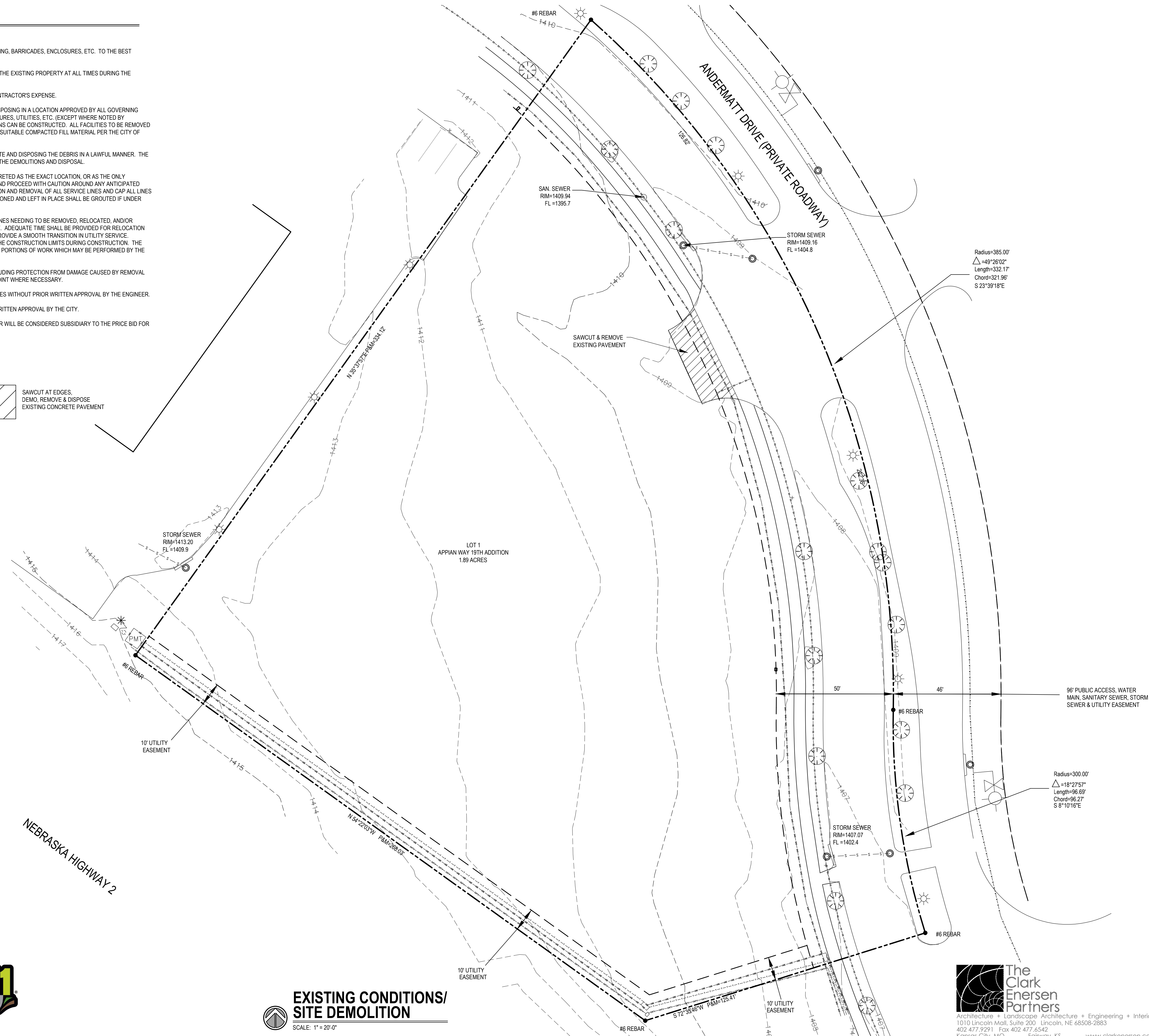
T1.0

# DEMOLITION NOTES

- CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE CITY OF LINCOLN.
- CONTINUOUS PEDESTRIAN & VEHICULAR ACCESS SHALL BE MAINTAINED FOR THE EXISTING PROPERTY AT ALL TIMES DURING THE DEMOLITION OF THE EXISTING FACILITIES.
- DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ENGINEER), SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE CITY OF LINCOLN SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED, RELOCATED, AND/OR ABANDONED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES.
- ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ADJUTING CONCRETE. THE CONTRACTOR SHALL SAW CUT AT NEAREST JOINT WHERE NECESSARY.
- DO NOT DISRUPT UTILITY SERVICES TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
- REMOVAL AND DISPOSAL OF SHRUBS & TREES SMALLER THAN 12" IN DIAMETER WILL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR "CLEARING AND GRUBBING".

## LEGEND

- FB FIBER OPTICS BOX
- UB UTILITY BOX
- + SIGN
- ⊙ DECIDUOUS TREE
- ⊠ AIR HANDLING UNIT
- ⊕ FIRE HYDRANT
- - - - - UNDERGROUND TELEPHONE LINE
- - - - - UNDERGROUND ELECTRIC LINE
- - - - - UNDERGROUND GAS LINE
- - - - - SANITARY SEWER
- - - - - WATER MAIN
- - - - - PROPERTY LINE
- ▨ SAWCUT AT EDGES, DEMO, REMOVE & DISPOSE EXISTING CONCRETE PAVEMENT



**EXISTING CONDITIONS/  
SITE DEMOLITION**  
SCALE: 1" = 20'-0"

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REVISIONS	AS PER CONSTRUCTION DOCUMENTS REMOVED MIDDLE LOT LINE
DATE	8-19-2016 8-31-2016
NO.	ISSUED A-001

**BIG RED KENO**  
8933 ANDERMATT DRIVE  
LINCOLN, NEBRASKA



Project:	14-01005
Date:	19 AUG 2016
Revision Date:	31 AUG 2016

Existing Conditions/  
Site Demolition  
**C1.1**

# GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN, ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO ENGINEER/OWNER PRIOR TO COMMENCEMENT OF WORK.
2. UNDERGROUND IMPROVEMENTS ARE UNKNOWN. UTILITY LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES AND SHALL REPAIR ANY SUCH DAMAGE AT HIS OWN EXPENSE. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM BEFORE DIGGING. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666.
3. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
4. ALL SPOIL MATERIAL SHALL BE REMOVED FROM THE SITE. NO SEPARATE PAYMENT SHALL BE MADE FOR DISPOSAL OF SPOIL MATERIAL; IT SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
5. A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON-SITE DURING CONSTRUCTION ACTIVITIES.
6. ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
7. A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON SITE.
8. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES OR BY RAIN EVENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
10. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF BUILDING, OR BACK OF CURB. FOLLOW WRITTEN DIMENSIONS. DO NOT SCALE. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
11. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL & SAFETY MEASURES.
12. ALL DISABLED PARKING STALLS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (FEDERAL REGISTER/VOL. 59 NO. 144/RULES AND REGULATIONS).
13. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS.
14. 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.
15. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.

# LEGEND

- FB FIBER OPTICS BOX
- UB UTILITY BOX
- +
- DECIDUOUS TREE
- AIR HANDLING UNIT
- FIRE HYDRANT
- - - T - - - T UNDERGROUND TELEPHONE LINE
- - - E - - - E UNDERGROUND ELECTRIC LINE
- - - G - - - G UNDERGROUND GAS LINE
- - - S - - - S SANITARY SEWER
- - - W - - - W WATER MAIN
- - - P - - - P PROPERTY LINE

- 6" P.C.C. PAVEMENT
- 4" P.C.C. SIDEWALK
- 8" P.C.C. PAVEMENT
- PAVES ON CONCRETE BASE, REF DETAIL C6.1



**SITE PLAN**  
SCALE: 1" = 20'-0"



REVISIONS	AS PER CONSTRUCTION DOCUMENTS
DATE	8-19-2016 8-31-2016
NO.	ISSUED A-001

**BIG RED KENO**  
8933 ANDERMATT DRIVE  
LINCOLN, NEBRASKA



Project:	14-01005
Date:	19 AUG 2016
Revision Date:	31 AUG 2016

Site Plan  
**C2.1**

# GRADING NOTES

1. THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, TOP OF CURB, OR TOP OF SIDEWALK IN PAVEMENT. IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE. THE CONTRACTOR SHALL LEAVE THE SITE AT SUBGRADE ELEVATIONS IN PARKING LOT AND BUILDING AREAS.
2. ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
3. CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY GRADING WILL TAKE PLACE BEYOND THE PROPERTY LINE.
6. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF GRADING PRIOR TO PLACEMENT OF FILL MATERIAL AND REDISTRIBUTED WITH THE TOPSOIL. A STRIPPING DEPTH OF 6" IS ANTICIPATED ON THIS SITE.
7. SUFFICIENT TOPSOIL SHOULD BE SALVAGED AND STOCKPILED BY THE CONTRACTOR FOR RE-SPREADING IN PERMANENT PLANTING AREAS, INCLUDING PARKING LOT ISLANDS AND GREEN SPACES. STOCKPILING AND RE-SPREADING OF TOPSOIL IS NOT A SEPARATE BID ITEM, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE SITE GRADING.
8. TOPSOIL SALVAGED AS PART OF THE EXCAVATION SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED TO MATCH ADJACENT GRADES. READY FOR SEEDING. ANY ROCK OR SAND FROM PAVING ACTIVITIES SHALL BE REMOVED PRIOR TO PLACEMENT OF TOPSOIL. ALL EXCESS SOILS, NOT RE-SPREAD WITHIN THE PROJECT LIMITS, SHALL BE REMOVED BY THE CONTRACTOR.
9. IF THERE ARE TREES ON THIS SITE THAT DO NOT SHOW UP ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE OR ENGINEER FOR REMOVAL OR RELOCATION, IF REQUIRED.
10. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN ONE FOOT VERTICAL IN 3 FEET HORIZONTAL.
11. CONTRACTOR SHALL GRADE ALL LOW SPOTS TO DRAIN.
12. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ENGINEER METHODS TO VERIFY POSITIVE DRAINAGE OFF THE BUILDING PADS.
13. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING FOR ALL NATURAL AND PAVED AREAS.
14. CONTRACTOR SHALL GRADE TO CONTOURS SHOWN IN GREENSPACES.
15. AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO COMMENCING CONSTRUCTION.
17. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES, IF NECESSARY.
18. ANY GEOTECHNICAL TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.
19. ONCE STRIPPING AND REMOVAL OPERATIONS ARE COMPLETE, THE CONTRACTOR SHALL PROOFROLL THE AREAS TO RECEIVE STRUCTURAL FILL. THE CONTRACTOR SHALL INFORM THE GEOTECHNICAL ENGINEER PRIOR TO BEGINNING OF PROOFROLLING. THE GEOTECHNICAL ENGINEER SHALL WITNESS ALL PROOFROLLING.
20. FULL TIME OBSERVATION AND TESTING BY A QUALIFIED TESTING LAB OR PROFESSIONAL GEOTECHNICAL ENGINEER SHALL OCCUR TO MONITOR SITE STRIPPING, REMOVAL OF EXISTING FILL/BACKFILL IN THE BUILDING AREA (UNSATURABLE MATERIALS) AND PROOFROLLING AND FILL PLACEMENT.

## LEGEND

- FB FIBER OPTICS BOX
- UB UTILITY BOX
- SIGN
- ⊙ DECIDUOUS TREE
- ⊠ AIR HANDLING UNIT
- ⊕ FIRE HYDRANT
- T—T—T— UNDERGROUND TELEPHONE LINE
- U—U—U— UNDERGROUND ELECTRIC LINE
- G—G—G— UNDERGROUND GAS LINE
- S—S—S— SANITARY SEWER
- W—W—W— WATER MAIN
- — — — — PROPERTY LINE
- — — — — PROPOSED MAJOR CONTOUR
- — — — — PROPOSED MINOR CONTOUR
- — — — — EXISTING MAJOR CONTOUR
- — — — — EXISTING MINOR CONTOUR
- — — — — LIMITS OF GRADING



Radius=385.00'  
 Δ=49°26'02"  
 Length=332.17'  
 Chord=321.96'  
 S 23°39'18"E

Radius=300.00'  
 Δ=18°27'57"  
 Length=96.69'  
 Chord=96.27'  
 S 8°10'16"E



**GRADING PLAN**  
 SCALE: 1" = 20'-0"

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REVISIONS	AS PER CONSTRUCTION DOCUMENTS REMOVED MIDDLE LOT LINE
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NO.	ISSUED A-001

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Grading Plan  
**C3.1**

# EROSION CONTROLS AND FINAL STABILIZATION

- THE PERMITTEE SHALL COMPLY WITH THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATER OF THE STATE OF NEBRASKA, ISSUED JANUARY 1, 2008.
- SEQUENCE OF EROSION CONTROL BMP'S (BEST MANAGEMENT PRACTICES)
  - PRIOR TO GRADING OPERATION, INSTALL ALL SILT FENCE AND CURB INLET FILTERS
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE (SEE NOTE 5) BEFORE SOIL DISTURBANCE
  - FOLLOWING SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER SEDIMENT 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.

PERMITTEE SHALL REFER TO SPECIFICATION SECTION 312500-EROSION AND SEDIMENT CONTROL SYSTEMS FOR MORE INFORMATION ON PRODUCTS TO BE USED FOR THESE BMP'S
- THE PERMITTEE SHALL HAVE A SPILL PREVENTION AND RESPONSE PLAN THAT ADDRESSES FUELING, MAINTENANCE AND STORAGE AREAS ON-SITE INCLUDING A DESCRIPTION OF SAID CONSTRUCTION MATERIALS (WITH UPDATES AS APPROPRIATE). THIS SPILL PREVENTION PLAN SHALL BE MAINTAINED ON THE PROJECT SITE. THE PLAN SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 18 OF NDEQ TITLE 126- RULES AND REGULATIONS PERTAINING TO THE MANAGEMENT OF WASTES.
- ANY WASTES PRESENT OR GENERATED AT THE SITE SHALL BE DISPOSED OF IN COMPLIANCE WITH NDEQ REGULATIONS. REGULATIONS THAT MAY HAVE APPLICATION IN THIS RESPECT INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO:
  - NDEQ TITLE 119 - RULES AND REGULATIONS PERTAINING TO THE ISSUANCE OF PERMITS UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
  - NDEQ TITLE 128 - RULES AND REGULATIONS GOVERNING HAZARDOUS WASTE MANAGEMENT IN NEBRASKA
  - NDEQ TITLE 129 - NEBRASKA AIR QUALITY REGULATIONS
  - NDEQ TITLE 130 - RULES AND REGULATIONS PERTAINING TO LIVESTOCK WASTE CONTROL
  - NDEQ TITLE 132 - INTEGRATED SOLID WASTE MANAGEMENT REGULATIONS
- THE PERMITTEE SHALL PROVIDE A STABILIZED SURFACE FOR EACH CONSTRUCTION ENTRANCE AS DELINEATED ON THE SITE PLAN. THE STABILIZED SURFACE SHALL CONSIST OF A 6" THICK BASE OF CRUSHED ROCK OVER A WOVEN GEOTEXTILE FABRIC MANUFACTURED BY MIRAFI, PRODUCT #HP 370 OR EQUAL AS APPROVED BY ARCHITECT. IF TRAFFIC ON SITE EXCEEDS MORE THAN 25 VEHICLES PER DAY, A WASH DOWN STATION FOR TRUCKS SHALL BE INSTALLED AND STREET SWEEPING SHALL BE PERFORMED.
- DUST BLOWING CONTROL. THE PERMITTEE SHALL USE EITHER OF THE FOLLOWING MEASURES OR A COMBINATION OF BOTH IF NECESSARY:
  - A. TANK TRUCK OR OTHER SUCH EQUIPMENT TO SPREAD WATER ON THE SOIL SURFACE.
  - B. INSTALL PICKET FENCE WIND BREAKS. FENCES SHALL BE PLACED AT THE RIGHT ANGLE TO THE PREVAILING WIND CURRENTS.
- THE PERMITTEE SHALL REMOVE ACCUMULATED SEDIMENT FROM BEHIND SILT FENCES DURING THE LIFE OF THIS CONTRACT. ACCUMULATION OF SEDIMENT MUST NOT BE ALLOWED TO REACH ABOVE HALF THE HEIGHT OF THE FENCE. ALL EROSION CONTROL FEATURES SHALL BE KEPT IN WORKING ORDER DURING THE LIFE OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- LITTER, CONSTRUCTION DEBRIS AND CONSTRUCTION CHEMICALS MUST BE PREVENTED FROM ENTERING RECEIVING WATERS.
- THE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT FINAL STABILIZATION IS ACCOMPLISHED ON ALL NON-IMPERVIOUS SURFACES OF THE CONSTRUCTION SITE PRIOR TO SUBMITTING FORM CSW-NOT. REFERENCE PART III, PARAGRAPH 'M', SUBPARAGRAPH 1, SECTIONS A-H IN THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATER OF THE STATE OF NEBRASKA, ISSUED JANUARY 1, 2008.

## TEMPORARY SEEDING

TEMPORARY SEED ALL DISTURBED AREAS FOR EROSION CONTROL PURPOSES INCLUDING ANY LAND THAT WAS NOT DISTURBED BY GRADING OPERATIONS.  
SEED WITH SEED OATS AT A RATE OF 64 LBS/ACRE

## BMP IMPLEMENTATION SCHEDULE

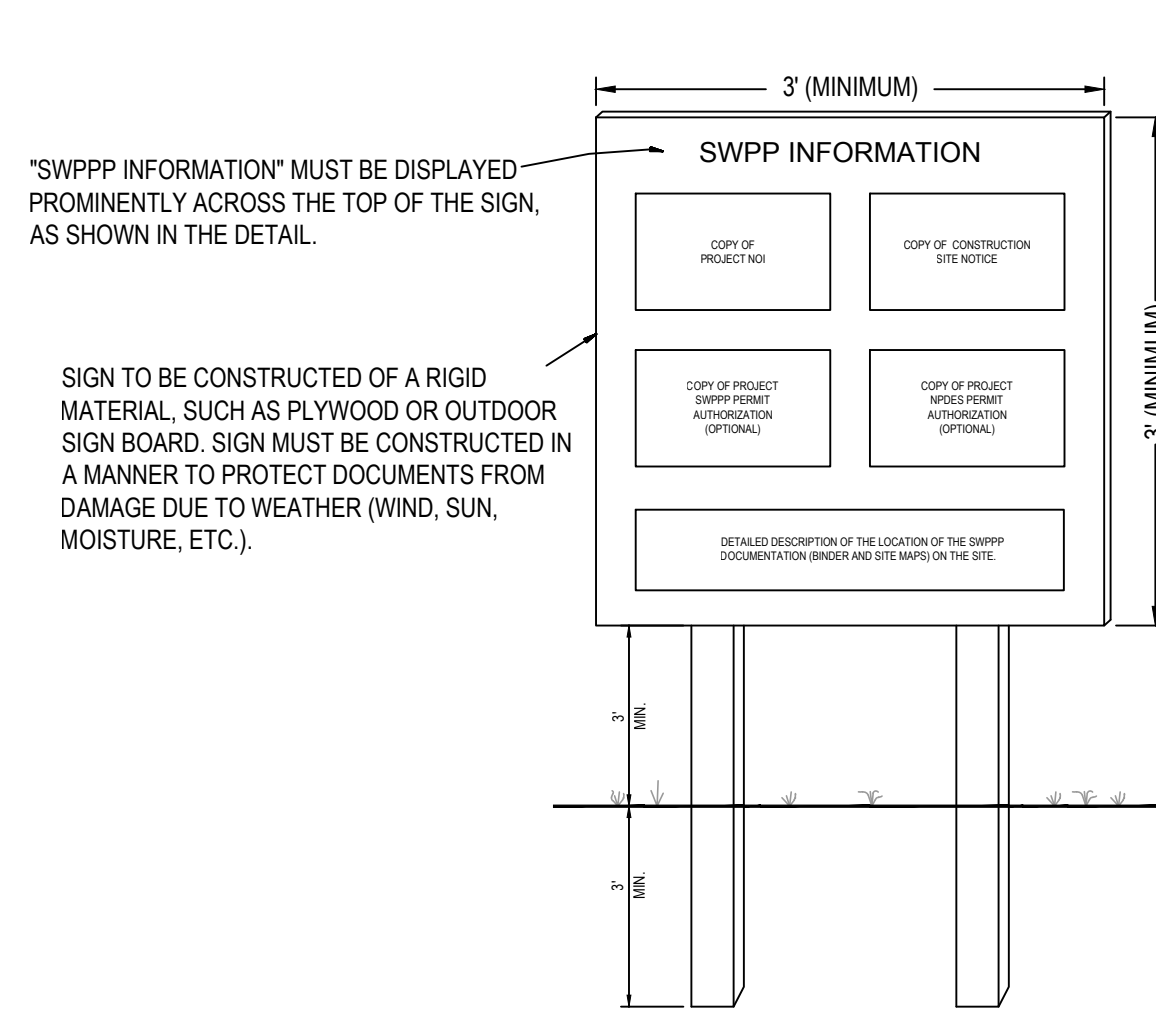
SPECIFIED BMP	INSTALLATION	REQUIRED MAINTENANCE	REMOVAL
CONSTRUCTION ENTRANCE	UPON MOBILIZATION OF GRADING CONTRACTOR	ADD OR REPLACE ROCK AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING
EXISTING STORM DRAIN INLET PROTECTION	INSTALL VISIBLE INLET PROTECTION PRIOR TO CLEANING AND GRUBBING AROUND PERIMETER	REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	COMPLETION OF PAVING AND PERMANENT SEEDING IS ESTABLISHED
SILT FENCE	IMMEDIATELY FOLLOWING CLEANING AND GRUBBING AROUND PERIMETER	REPAIR WASH-OUTS, DOWNED FABRIC, AND REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	85% VEGETATIVE COVER ON UPSTREAM AREAS
SEDIMENT TRAP	PRIOR TO CLEANING AND GRUBBING AROUND PERIMETER	REMOVE SEDIMENT WHEN BASIN REACHES 50% SEDIMENT CAPACITY	COMPLETION OF PAVING
TEMPORARY SEEDING	IMMEDIATELY FOLLOWING MAJOR GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER. ENSURE GOOD STAND IS MAINTAINED	N/A
CONCRETE WASHOUT	UPON MOBILIZATION OF UTILITY CONTRACTOR	REMOVE CONCRETE RUBBLE AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF PAVING
STORM DRAIN INLET PROTECTION	IMMEDIATELY FOLLOWING INSTALLATION OF STORM SEWER	REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	COMPLETION OF PAVING AND PERMANENT SEEDING IS ESTABLISHED
PERMANENT SOD	IMMEDIATELY FOLLOWING FINISHED GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SOD AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER. CONTROL WEEDS. ENSURE GOOD STAND IS MAINTAINED	N/A

## LEGEND

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	INLET PROTECTION
	CONCRETE WASH-OUT
	CONSTRUCTION ENTRANCE
	SILT FENCE
	SWPPP SIGN
	LIMITS OF CONSTRUCTION

# INSPECTIONS AND MODIFICATIONS TO THE PLAN

- SITE INSPECTIONS AND MODIFICATIONS MUST BE IN COMPLIANCE WITH THE GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATERS OF THE STATE OF NEBRASKA, ISSUED JANUARY 1, 2008. BELOW IS A SUMMARY OF WHAT IS REQUIRED.
- THE SITE SHALL BE INSPECTED TO IDENTIFY MAINTENANCE NEEDS AND/OR SWPPP DEFICIENCIES ONCE EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCHES OR GREATER. ANY DELAY IN THE REPLACEMENT OR MAINTENANCE OF NON-FUNCTIONAL BMP'S BEYOND SEVEN (7) CALENDAR DAYS SHALL BE DOCUMENTED IN THE SWPPP WITH SUFFICIENT DETAIL AS TO EXPLAIN THE REASON FOR THE DELAY.
- INSPECTIONS FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH IF:
  - A. THE ENTIRE SITE IS TEMPORARILY STABILIZED
  - B. RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G. SITE IS COVERED WITH SNOW, ICE OR GROUND IS FROZEN)
  - C. REDUCED INSPECTION FREQUENCY DOES NOT RELIEVE THE PERMITTEE OF THE MAINTENANCE RESPONSIBILITIES DURING INTERIM PERIODS
- INSPECTIONS MUST BE CONDUCTED BY QUALIFIED PERSONNEL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY EROSION AND SEDIMENT CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITY.
- QUALIFIED PERSONNEL SHALL INITIATE AND COMPLETE CORRECTIVE ACTIONS TO ADDRESS ANY MAINTENANCE NEEDS OR DEFICIENCIES AS SOON AS POSSIBLE. MAINTENANCE AND REPAIR OF SILT FENCES, CURB FILTERS OR ANY OTHER BMP SHALL BE COMPLETED WITHIN 7 DAYS AFTER DEFICIENCIES ARE DISCOVERED.
- THE PERMITTEE SHALL MAINTAIN RECORD LOGS OF SITE INSPECTION AND MAINTENANCE ACTIVITIES FOR AT LEAST THREE YEARS FROM THE DATE THAT PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE PERMITTEE MUST PROVIDE NDEQ, THE ARCHITECT, AND THE OWNER/OWNER'S REPRESENTATIVE, WITH ACCESS AND COPIES OF THESE RECORDS UPON REQUEST. A COPY OF THESE RECORDS MUST BE MAINTAINED ON SITE. AT A MINIMUM THESE RECORDS MUST INCLUDE:
  - A. THE INSPECTION TIME AND DATE
  - B. NAMES, TITLES, AND QUALIFICATION OF WHO CONDUCTED THE INSPECTIONS
  - C. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION
    - BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT
    - DURATION OF EACH STORM EVENT
    - APPROXIMATE AMOUNT OF RAINFALL (IN INCHES)
    - WHETHER ANY DISCHARGE OCCURRED
  - D. WEATHER INFORMATION AND DESCRIPTION OF ANY DISCHARGE OCCURRING AT TIME OF THE INSPECTION
  - E. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE
  - F. LOCATION OF BMP'S THAT NEED TO BE MAINTAINED
  - G. LOCATIONS OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION
  - H. MONITORING RESULTS IF REQUESTED
  - I. RECORDS OF THE LAST GRADING ACTIVITY
  - J. LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION
  - K. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWPPP NECESSARY AND IMPLEMENTATION DATES
- THIS PLAN SHALL REMAIN DYNAMIC. IF DEFICIENCIES ARISE DURING THE COURSE OF THE PROJECT, THE PERMITTEE SHALL IMPLEMENT EFFECTIVE CORRECTIVE ACTIONS. AN UPDATED COPY OF THE SWPPP SHALL BE ON SITE AT ALL TIMES. THE PERMITTEE SHALL MAINTAIN AN UPDATED COPY AT ALL TIMES ANY WORK IS BEING PERFORMED ON SITE. THE PLAN SHALL BE UPDATED WHENEVER EROSION AND/OR SEDIMENT CONTROLS ARE MODIFIED AS SET FORTH IN THE PLAN. THIS DOES NOT CIRCUMVENT THE PERMITTEE'S RESPONSIBILITY TO OBTAIN APPROVAL FOR MODIFICATIONS THAT MAY CONCURRENTLY FALL UNDER THE JURISDICTION OF OTHER GOVERNMENTAL AUTHORITIES. THE PERMITTEE SHALL MAINTAIN A RECORD OF ALL MODIFICATIONS OF CONTROLS ON THE PLAN. THE RECORD SHALL INCLUDE DATE OF MODIFICATION AND REASON(S) FOR MODIFICATION.
- A COPY OF THE SWPPP (INCLUDING A COPY OF THE PERMIT), CSW-NOI, AND THE LETTER FROM NDEQ NOTIFYING YOU OF THE RECEIPT OF THE COMPLETE AND ACCURATE CSW-NOI MUST BE RETAINED AT THE CONSTRUCTION SITE OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS. THE SWPPP MUST BE MADE AVAILABLE UPON REQUEST TO FEDERAL, STATE, AND LOCAL AGENCIES, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE OF FINAL STABILIZATION.

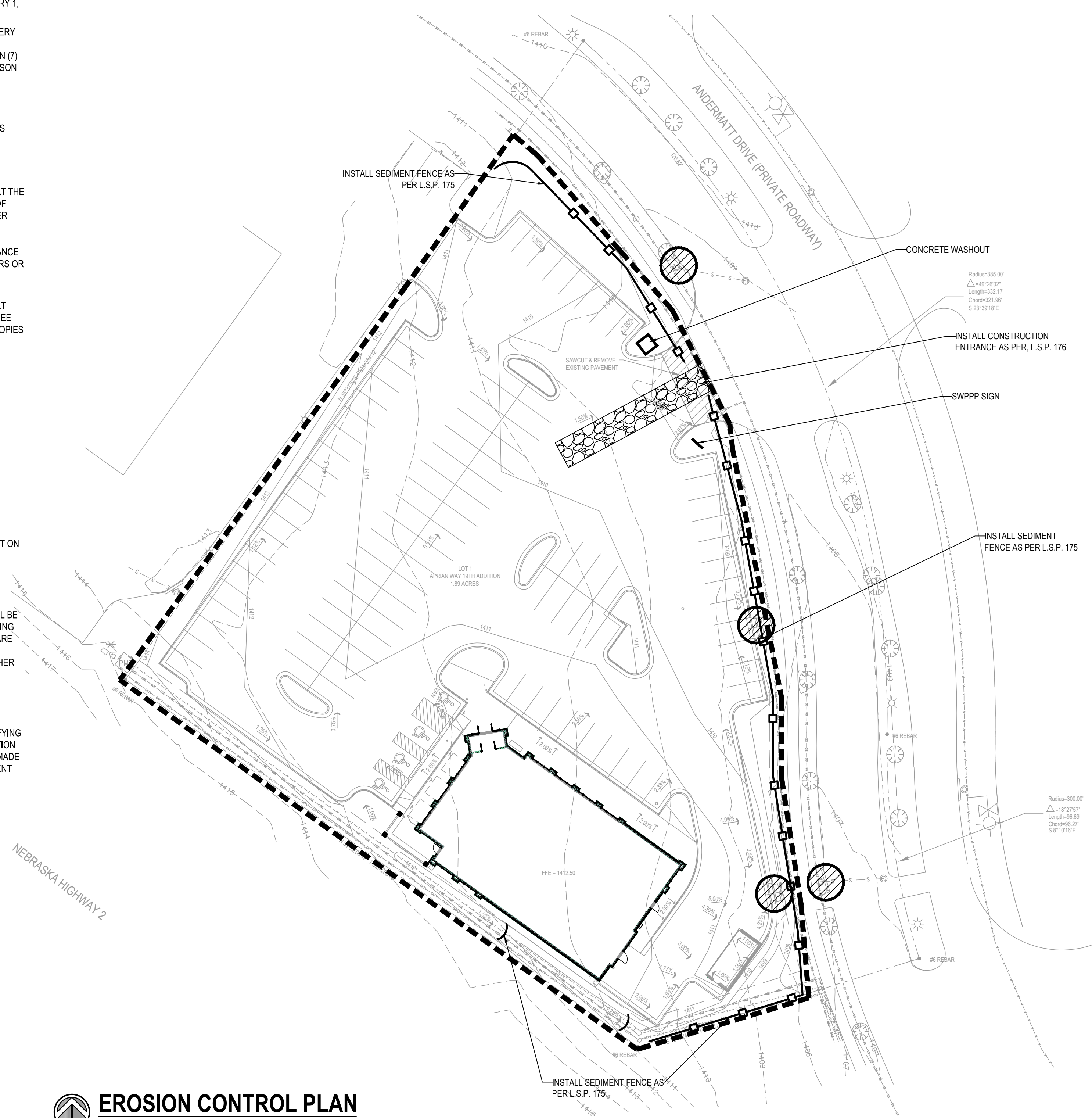


- NOTES:
- THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VISIBLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
  - ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT 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

## EROSION CONTROL PLAN

SCALE: 1" = 30'-0"



### GENERAL INFORMATION

- THE FUNCTION OF THIS PROJECT IS TO BUILD A NEW BIG RED KENO INCLUDING PARKING, SIDEWALK, AND LANDSCAPE AREAS.
- THE FOLLOWING ITEMS ARE LISTED IN CHRONOLOGICAL ORDER THAT THE WORK IS EXPECTED TO OCCUR:
  - A. AUGUST 2016 - SITE DEMOLITION & INSTALLATION OF EROSION CONTROL MEASURES
  - B. SEPTEMBER 2016 - COMPLETION OF ROUGH GRADING AND FOUNDATIONS
  - C. OCTOBER 2016 - BEGIN CONSTRUCTION OF BUILDING
  - D. AUGUST 2017 - CONSTRUCTION OF BUILDING COMPLETE
  - E. SEPT. 2017 - INSTALLATION OF PLANTS AND TURF/PROJECT COMPLETION
- TOTAL PROJECT AREA: 1.89 ACRES  
DEVELOPED/DISTURBED AREA: 1.47 ACRES
- ALL EXISTING SITE CONDITIONS ARE BASED ON SURVEY INFORMATION PERFORMED AND RECORDED BY: K & M Land Surveying Inc. CONTACT: Joe Kerr - 402.476.3020

NOTE:  
ADDITIONAL SILT FENCE SHALL BE INSTALLED WHEN NECESSARY TO PREVENT SEDIMENT FROM MIGRATING ONTO THE ROADS OR ADJACENT PROPERTY.

NOTE:  
SILT FENCE SHALL BE INSTALLED IN NO GREATER THAN 100 LF RUNS. THE ENDS OF EACH RUN SHOULD TURN UPHILL FOR AN APPROPRIATE DISTANCE TO KEEP WATER FROM FLOWING TO THE NEXT SECTION OF SILT FENCE (TYPICAL).

*Tim Gerger*  
TIM GERGER, PE

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REVISIONS	AS PER CONSTRUCTION DOCUMENTS
DATE	8-19-2016 8-31-2016
NO.	ISSUED A-001

**BIG RED KENO**  
8933 ANDERMATT DRIVE  
LINCOLN, NEBRASKA



Project:	14-01005
Date:	19 AUG 2016
Revision Date:	31 AUG 2016

Erosion Control Plan  
**C3.2**

## GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
6. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND WITH REBAR AND A FLAG.

## WATER SERVICE NOTES

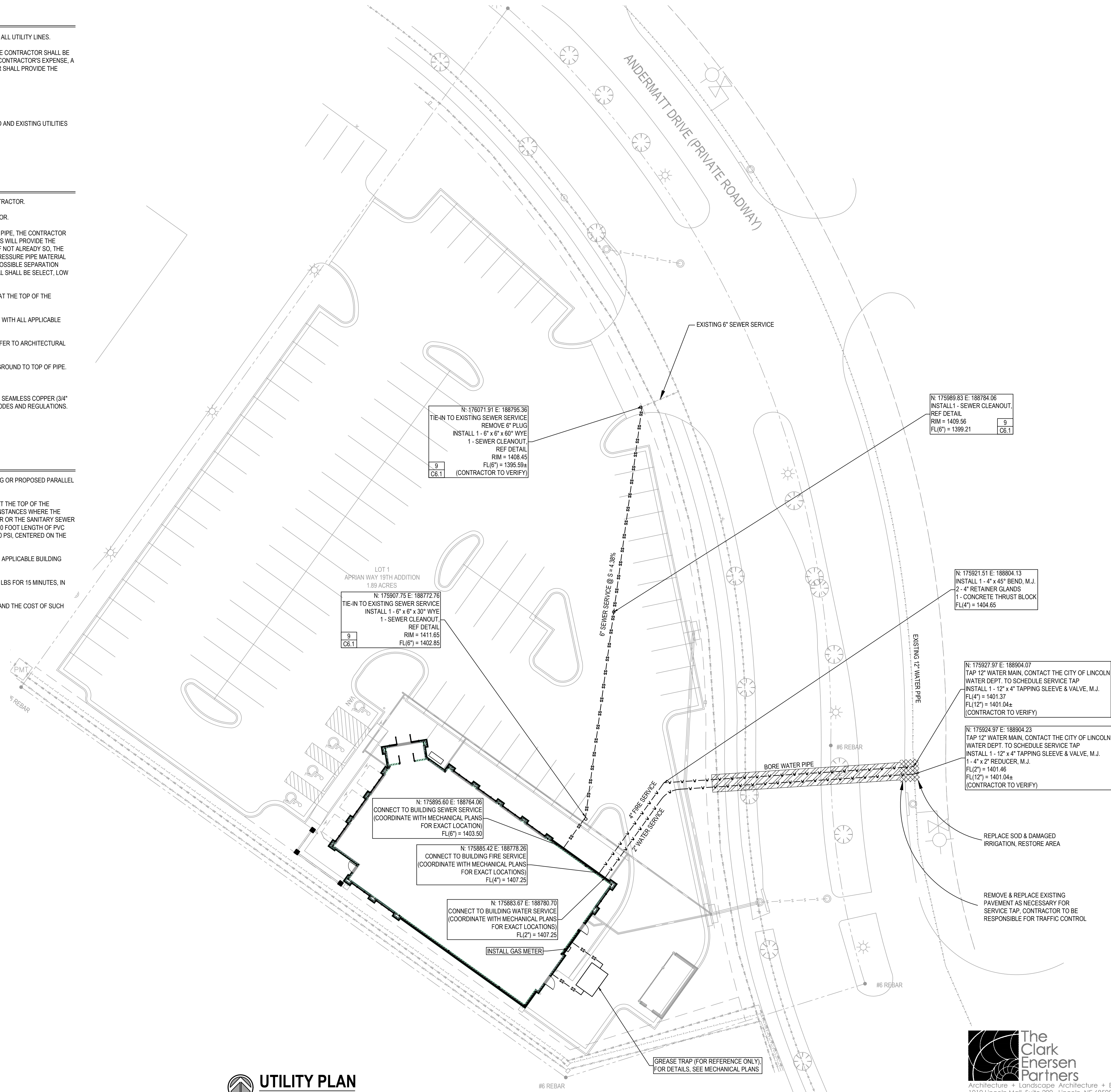
1. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR.
2. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR.
3. WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN AS PROVIDED IN SECTION 22.02(B), SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
4. 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 INCHES BELOW THE BOTTOM OF THE WATER MAIN.
5. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
6. ALL WATER METERS, PUMPS, AND BACKFLOW PREVENTERS ARE LOCATED INSIDE BUILDING. REFER TO ARCHITECTURAL PLANS FOR DESIGN AND LOCATIONS.
7. WATER SERVICE PIPE SHALL HAVE A 5.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
8. SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
9. MATERIAL OF PIPE FROM TAP OF PUBLIC WATER MAIN TO METER IN BUILDING SHALL BE TYPE "K" SEAMLESS COPPER (3/4" TO 3"), DUCTILE IRON PIPE (3" AND LARGER), OR AWWA C900 PVC (4" AND LARGER) PER LOCAL CODES AND REGULATIONS.
10. REFER TO ARCHITECTURAL PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.

## SANITARY SEWER SERVICE NOTES

1. SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
2. 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 INCHES BELOW THE BOTTOM OF THE WATER MAIN. IN THOSE INSTANCES WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 18 INCHES, 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 FOOT LENGTH OF PVC PRESSURE PIPE, MEETING THE REQUIREMENTS OF AWWA C900 FOR DR18, PRESSURE RATING 150 PSI, CENTERED ON THE WATER MAIN.
3. ALL SANITARY SEWER WILL BE DONE UNDER A PLUMBERS PERMIT, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
4. PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE AIR TESTED BY THE CONTRACTOR @ 5 LBS FOR 15 MINUTES, IN ACCORDANCE WITH THE LINCOLN PLUMBING CODE.
5. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN TV INSPECTED AND THE COST OF SUCH WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SEWER WITH INSTALLATION.
6. REFER TO ARCHITECTURAL PLANS FOR SANITARY SEWER TIE-INS WITH BUILDING.
7. ALL PIPE, SERVICE PIPE, AND FITTINGS SHALL BE SCHEDULE 40 PVC.

## UTILITIES LEGEND

- - - - - PROPOSED WATER SERVICE
- - - - - PROPOSED STORM SEWER
- - - - - PROPOSED SANITARY SEWER
- - - - - PROPOSED GAS MAIN
- - - - - EXISTING STORM SEWER
- ⊠ GRATE INLET
- ⊠ STRAIGHT CURB INLET
- ⊠ FLARED-END SECTION
- SANITARY SEWER MANHOLE
- ⊗ POST INDICATOR VALVE
- ⊗ GATE VALVE
- ⊗ STORM SEWER MANHOLE



REVISIONS  
AS PER CONSTRUCTION DOCUMENTS  
REMOVED MIDDLE LOT LINE

DATE  
8-19-2016  
8-31-2016

NO.  
ISSUED  
A-001

**BIG RED KENO**  
**8933 ANDERMATT DRIVE**  
**LINCOLN, NEBRASKA**



Project: 14-01005  
Date: 19 AUG 2016  
Revision Date: 31 AUG 2016



Utility Plan  
**C4.1**

## GENERAL NOTES

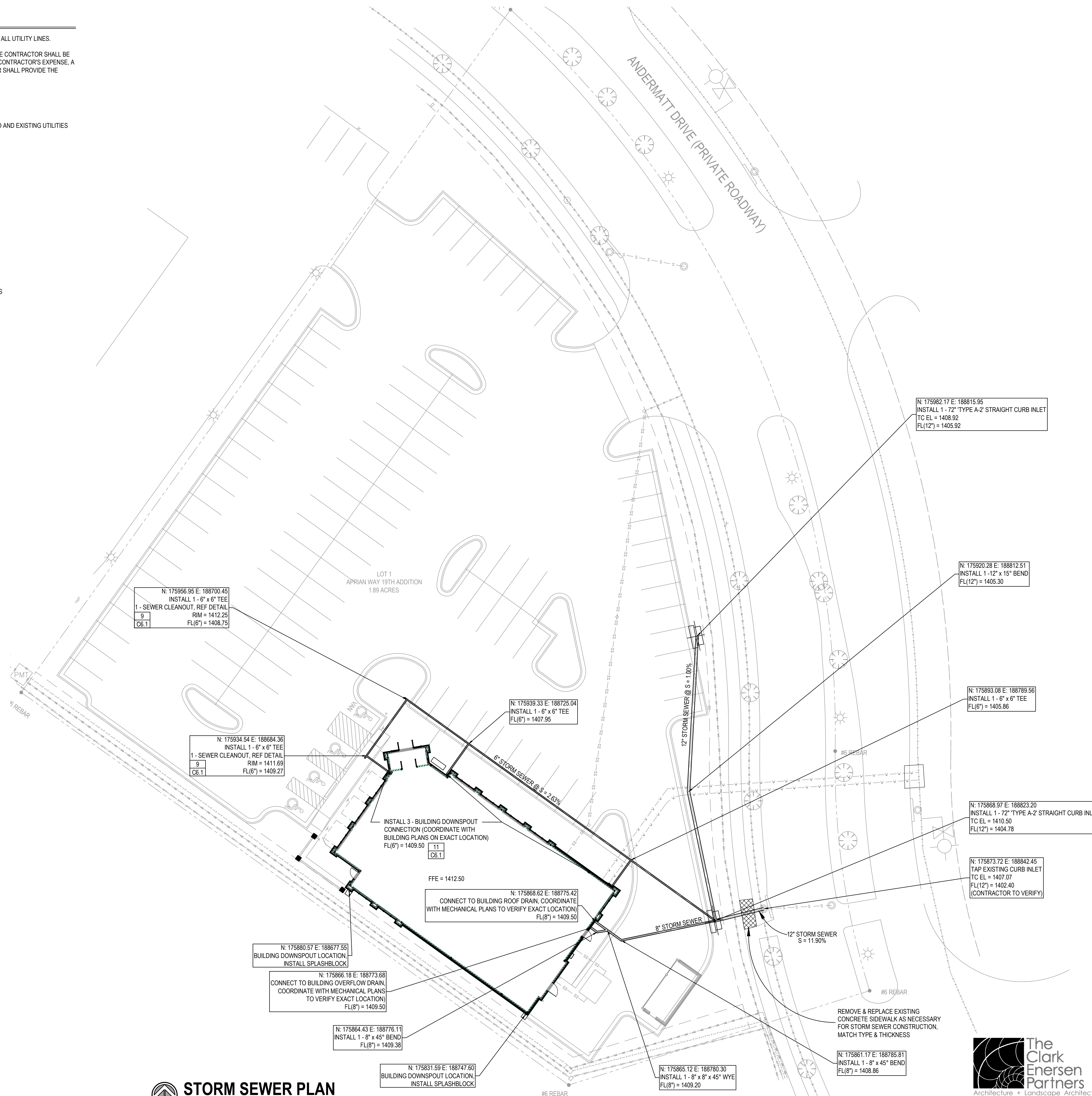
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4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
6. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND WITH REBAR AND A FLAG.

## STORM SEWER NOTES

1. FOR DETAILS OF TYPE A-2 STRAIGHT STORM SEWER INLET, SEE L.S.P. 101
2. ALL STATIONING AND DIMENSIONS ARE TO BE CENTERLINE OF VAULT UNLESS OTHERWISE NOTED.
3. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INLET THROAT AND CURB AND GUTTER UP TO THE INLET TOP.
4. ALL STORM SEWER PIPE MATERIAL 12" AND SMALLER SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) PRODUCT OR APPROVED EQUAL.
5. ALL STORM SEWER PIPE MATERIAL TO CONFORM TO LOCAL CODES.

## UTILITIES LEGEND

	PROPOSED WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED GAS MAIN
	EXISTING STORM SEWER
	GRATE INLET
	STRAIGHT CURB INLET
	FLARED-END SECTION
	SANITARY SEWER MANHOLE
	POST INDICATOR VALVE
	GATE VALVE
	STORM SEWER MANHOLE



**STORM SEWER PLAN**  
SCALE: 1" = 20'-0"

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REVISIONS  
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NO. ISSUED  
A-001

**BIG RED KENO**  
**8933 ANDERMATT DRIVE**  
**LINCOLN, NEBRASKA**



Project: 14-01005  
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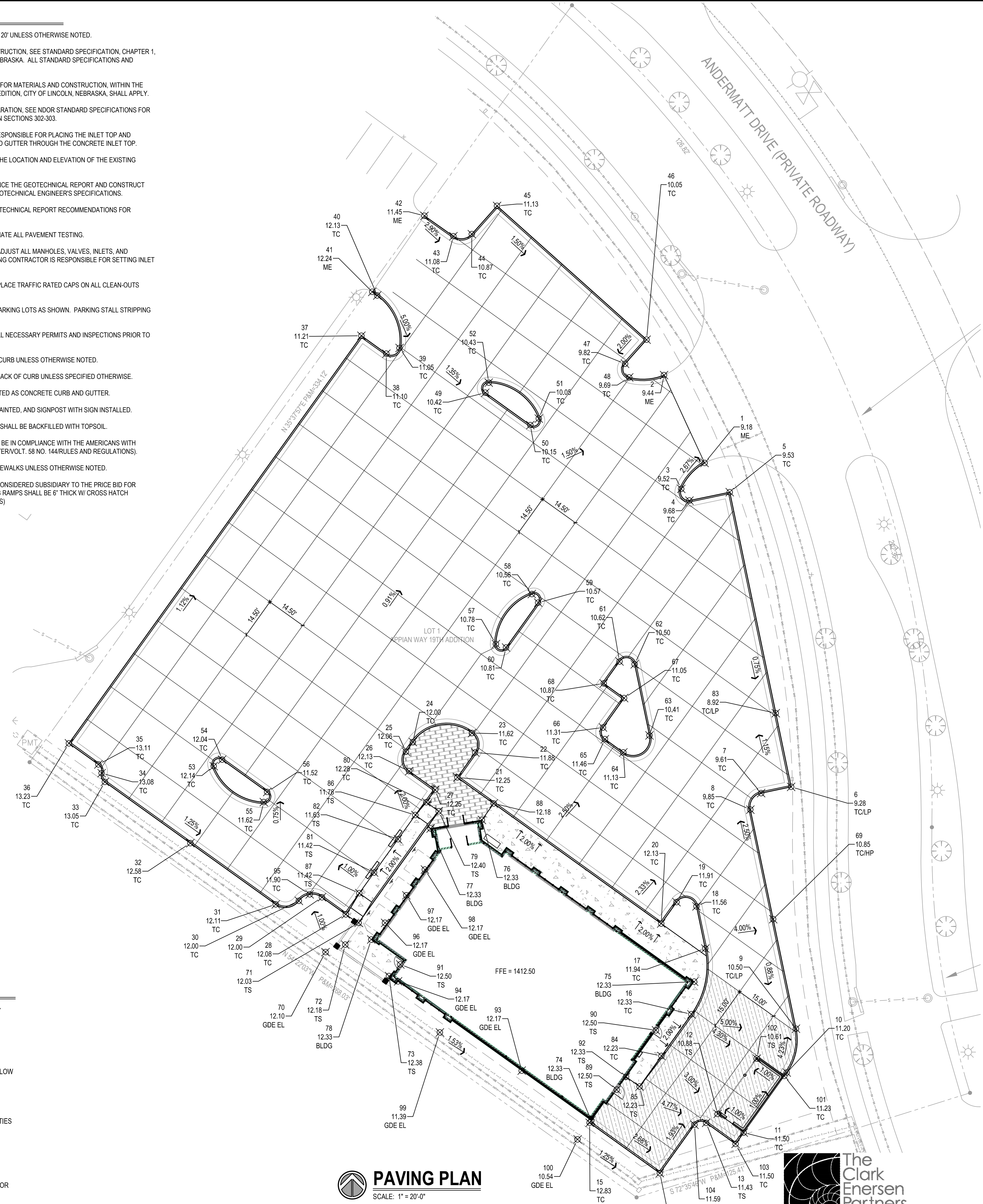
Storm Sewer Plan  
**C4.2**

CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	ME	9.18	176067.1277	188789.2834
2	ME	9.44	176098.6349	188774.7241
3	TC	9.52	176057.8262	188780.8945
4	TC	9.68	176053.6214	188783.8250
5	TC	9.53	176056.6392	188798.3032
6	TCLP	9.28	175950.9116	188820.3411
7	TC	9.61	175948.6670	188809.5726
8	TC	9.85	175942.7519	188805.6981
9	TCLP	10.50	175864.1356	188822.0849
10	TC	11.20	175848.4028	188818.7611
11	TC	11.50	175826.8644	188803.3227
12	TS	10.88	175833.5641	188793.9758
13	TS	11.43	175830.3741	188789.8437
14	TC	12.00	175812.3326	188773.2207
15	TC	12.83	175830.3927	188748.0248
16	TC	12.33	175869.3209	188784.5406
17	TC	11.94	175892.9201	188789.5263
18	TC	11.56	175908.0289	188786.3770
19	TC	11.91	175909.5430	188779.2100
20	TC	12.13	175901.8665	188773.7076
21	TC	12.25	175954.2990	188700.5582
22	TC	11.88	175963.2395	188706.9666
23	TC	11.62	175970.2163	188705.8157
24	TC	12.00	175966.9938	188684.5807
25	TC	12.06	175963.5254	188682.0912
26	TC	12.13	175956.5479	188683.2376
27	TC	12.25	175949.8421	188692.5802
28	TC	12.08	175905.1596	188660.5110
29	TC	12.00	175911.2952	188651.9622
30	TC	12.00	175910.0226	188643.6648
31	TC	12.11	175908.7477	188635.3706
32	TC	12.58	175930.7206	188604.7160
33	TC	13.05	175952.6935	188574.0614
34	TC	13.08	175955.8232	188572.8899
35	TC	13.11	175958.9518	188571.7200
36	TC	13.23	175966.5333	188561.1573
37	TC	11.21	176112.7643	188666.1168
38	TC	11.10	176106.3358	188675.0730
39	TC	11.05	176108.3673	188679.7948
40	TC	12.13	176127.2114	188671.7907
41	ME	12.24	176128.5124	188670.0131
42	ME	11.45	176155.7881	188688.7391
43	TC	11.08	176148.4674	188699.1362
44	TC	10.87	176149.2229	188705.7421
45	TC	11.13	176159.3507	188714.7977
46	TC	10.05	176111.3592	188768.4709
47	TC	9.82	176102.7113	188760.7385
48	TC	9.69	176097.8067	188762.2259
49	TC	10.42	176092.3100	188710.5741
50	TC	10.15	176080.7063	188726.7406
51	TC	10.05	176083.0405	188729.7768
52	TC	10.43	176095.9334	188711.8141

CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
53	TC	12.14	175958.3471	188613.1036
54	TC	12.04	175960.6812	188616.1398
55	TC	11.62	175945.4540	188631.0663
56	TC	11.52	175949.0775	188632.3063
57	TC	10.78	176002.1349	188714.4017
58	TC	10.56	176020.1060	188727.2831
59	TC	10.57	176016.9998	188729.5680
60	TC	10.81	176000.8973	188718.0259
61	TC	10.62	175995.9072	188758.7420
62	TC	10.50	175994.8746	188764.1891
63	TC	10.41	175969.3707	188769.5048
64	TC	11.13	175963.2698	188760.1356
65	TC	11.46	175968.0159	188753.5142
66	TC	11.31	175972.2020	188752.8236
67	TC	11.05	175982.7680	188760.3972
68	TC	10.87	175988.0113	188753.0823
69	TCHP	10.85	175903.4438	188813.8915
70	GDE EL	12.10	175891.6259	188653.2549
71	TS	12.03	175902.1293	188665.1112
72	TS	12.18	175894.2875	188660.3170
73	TS	12.38	175883.0181	188676.0390
74	BLDG	12.33	175831.2065	188748.6081
75	BLDG	12.33	175881.0157	188785.5411
76	BLDG	12.33	175939.0292	188709.3646
77	BLDG	12.33	175935.9881	188690.9299
78	BLDG	12.33	175896.1332	188669.6501
79	TS	12.40	175942.1726	188693.8454
80	TC	12.28	175945.3797	188689.3772
81	TS	11.42	175920.1721	188670.6686
82	TS	11.63	175932.1354	188679.2555
83	TCLP	8.92	175977.3435	188814.8317
84	TC	12.23	175854.3552	188773.8133
85	TS	12.23	175843.3828	188765.9484
86	TS	11.78	175940.7969	188685.4724
87	TS	11.42	175912.7635	188665.3510
88	TC	12.18	175944.9465	188713.6060
89	TS	12.50	175842.2470	188757.7497
90	TS	12.50	175863.5741	188771.8207
91	TS	12.50	175887.1970	188680.0725
92	TS	12.33	175846.8783	188761.0718
93	GDE EL	12.17	175849.1027	188723.6408
94	GDE EL	12.17	175881.1419	188679.2823
95	TC	11.90	175912.3515	188647.5539
96	GDE EL	12.17	175902.1106	188674.6017
97	GDE EL	12.17	175911.9932	188682.2409
98	GDE EL	12.17	175921.2352	188688.8918
99	GDE EL	11.39	175862.8072	188694.2804
100	GDE EL	10.54	175824.4409	188743.6914
101	TC	11.23	175847.1836	188817.8873
102	TS	10.61	175853.4265	188808.0335
103	TC	11.50	175822.8005	188800.4097
104	TC	11.59	175829.6836	188785.6577

### PAVING NOTES

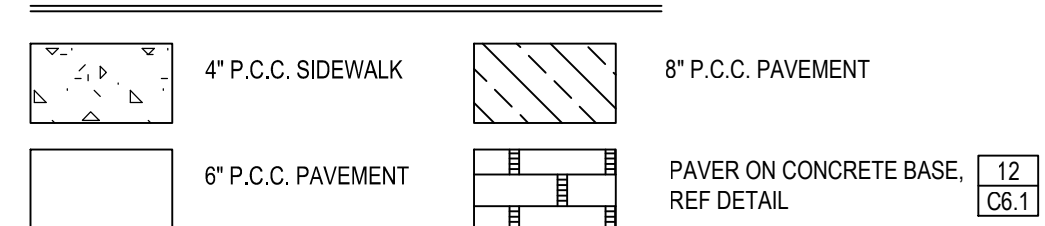
- ALL INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED.
- FOR DETAILS OF PAVEMENT CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 1, 2011 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
- ALL OTHER APPLICABLE SECTIONS FOR MATERIALS AND CONSTRUCTION, WITHIN THE STANDARD SPECIFICATIONS, 2011 EDITION, CITY OF LINCOLN, NEBRASKA, SHALL APPLY.
- FOR DETAILS OF SUBGRADE PREPARATION, SEE NDR STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, DIVISION SECTIONS 302-303.
- PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE INLET TOP AND BUILDING THE COMBINED CURB AND GUTTER THROUGH THE CONCRETE INLET TOP.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE EXISTING PAVEMENT.
- THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT AND CONSTRUCT PAVEMENT ACCORDING TO THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS.
- CONTRACTOR SHALL FOLLOW GEOTECHNICAL REPORT RECOMMENDATIONS FOR SUBGRADE PREPARATION.
- THE CONTRACTOR SHALL COORDINATE ALL PAVEMENT TESTING.
- THE PAVING CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVES, INLETS, AND CLEAN-OUTS TO GRADE. THE PAVING CONTRACTOR IS RESPONSIBLE FOR SETTING INLET TOPS.
- THE PAVING CONTRACTOR SHALL PLACE TRAFFIC RATED CAPS ON ALL CLEAN-OUTS WITHIN PAVED AREAS.
- CONTRACTOR SHALL STRIPE ALL PARKING LOTS AS SHOWN. PARKING STALL STRIPPING SHALL BE 4" WHITE MARKINGS.
- CONTRACTOR SHALL COMPLETE ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL COORDINATE POINTS ARE TO BACK OF CURB UNLESS SPECIFIED OTHERWISE.
- ALL ISLANDS SHALL BE CONSTRUCTED AS CONCRETE CURB AND GUTTER.
- ALL HANDICAPPED STALLS TO BE PAINTED, AND SIGNPOST WITH SIGN INSTALLED.
- ALL ISLANDS AND SETBACK AREAS SHALL BE BACKFILLED WITH TOPSOIL.
- ALL CURB CUTS AND RAMPS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (FEDERAL REGISTER/VOL. 58 NO. 144/RULES AND REGULATIONS).
- MAINTAIN 2% CROSS SLOPE ON SIDEWALKS UNLESS OTHERWISE NOTED.
- CONSTRUCTION OF CURB RAMPS CONSIDERED SUBSIDIARY TO THE PRICE BID FOR "CONCRETE SIDEWALK" (ALL CURB RAMPS SHALL BE 6" THICK W/ CROSS HATCH GROOVING ON ALL RAMP SURFACES)



### TABLE LEGEND

TS = TOP OF SLAB  
 TC = TOP OF CURB  
 BLDG = BUILDING CORNER  
 LP = LOW POINT  
 NOTE: ALL SPOT ELEVATIONS ARE TRUNCATED FOR CLARITY.  
 ADD 1400.00' FOR USGS NAVD 88 (i.e. 12.00' = 1412.00')

### PAVING LEGEND



### GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO ENGINEER/ OWNER PRIOR TO COMMENCEMENT OF WORK.
- UNDERGROUND IMPROVEMENTS ARE UNKNOWN. UTILITY LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES AND SHALL REPAIR ANY SUCH DAMAGE AT HIS OWN EXPENSE. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM BEFORE DIGGING. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666.
- PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
- ALL SPOIL MATERIAL SHALL BE REMOVED FROM THE SITE. NO SEPARATE PAYMENT SHALL BE MADE FOR DISPOSAL OF SPOIL MATERIAL; IT SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
- A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON-SITE DURING CONSTRUCTION ACTIVITIES.
- ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON SITE.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES OR BY RAIN EVENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF BUILDING, OR BACK OF CURB. FOLLOW WRITTEN DIMENSIONS. DO NOT SCALE. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL & SAFETY MEASURES.
- ALL DISABLED PARKING STALLS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (FEDERAL REGISTER/VOL. 58 NO. 144/RULES AND REGULATIONS).
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.

**PAVING PLAN**  
 SCALE: 1" = 20'-0"

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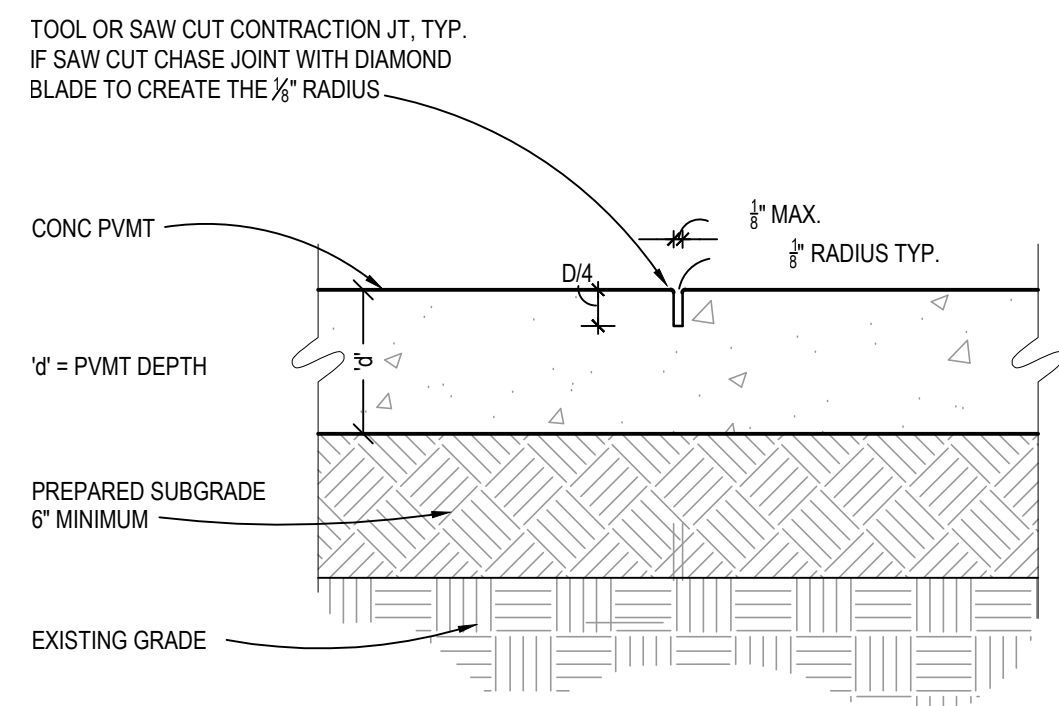
REVISIONS  
 AS PER CONSTRUCTION DOCUMENTS  
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 A-001

**BIG RED KENO**  
 8933 ANDERMATT DRIVE  
 LINCOLN, NEBRASKA

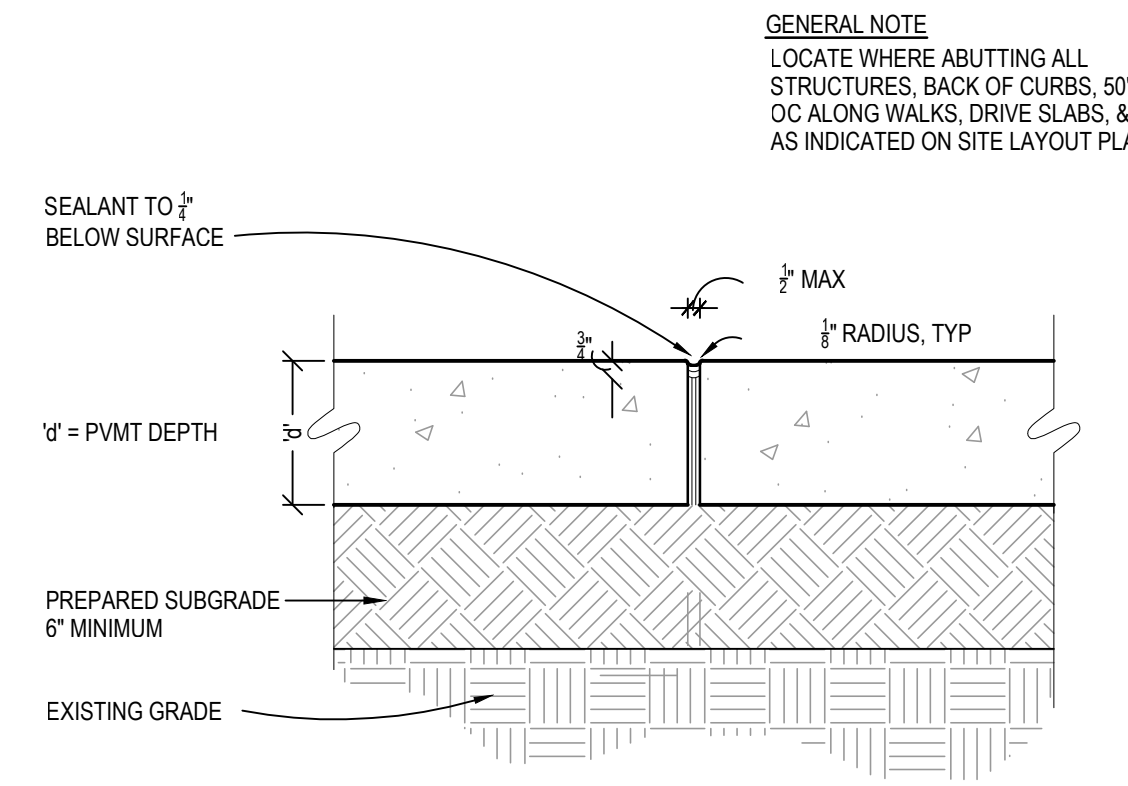


Project: 14-01005  
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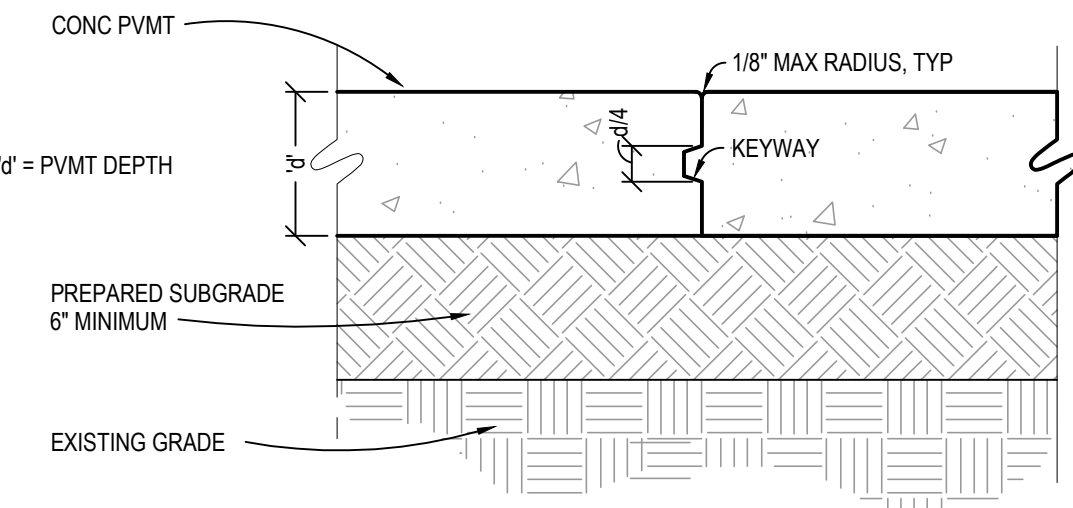
Paving Plan  
**C5.1**



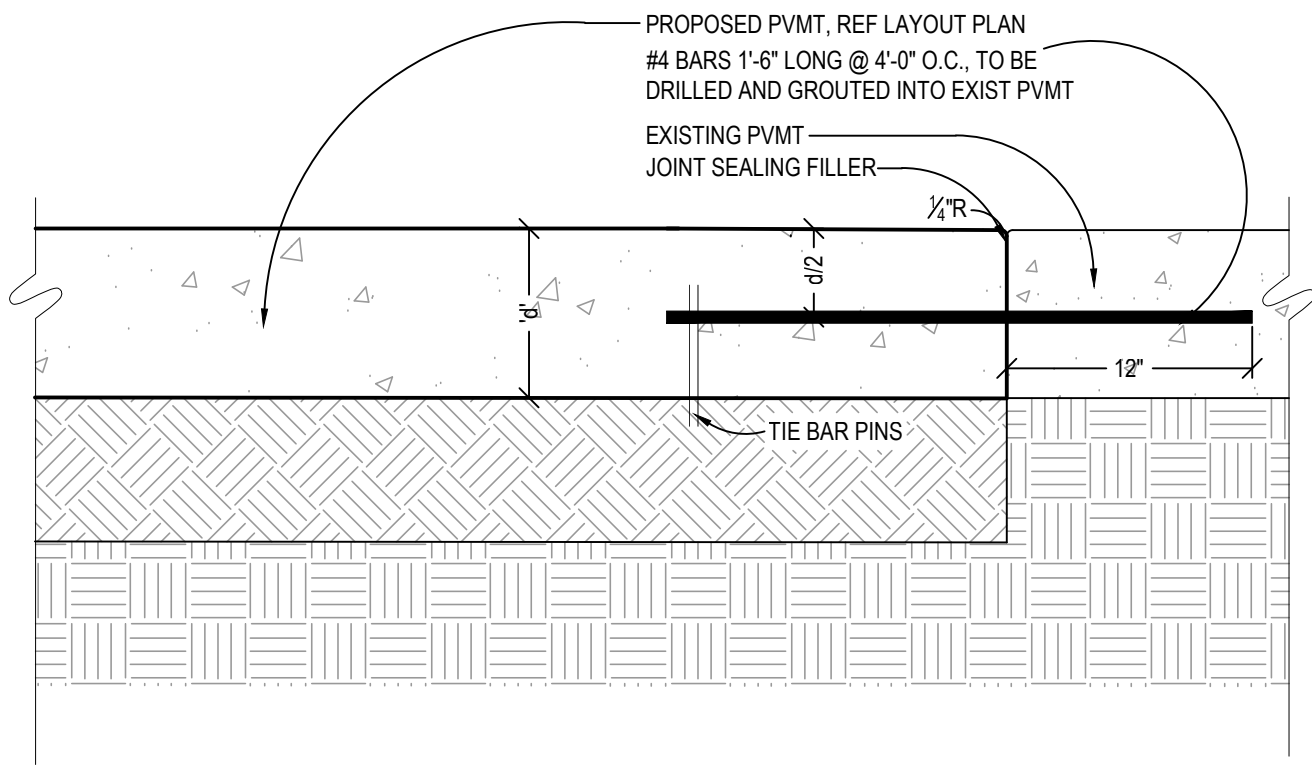
**1 TYP CONCRETE CONTRACTION JOINT**  
NO SCALE (INDICATED CJ ON LAYOUT PLAN)



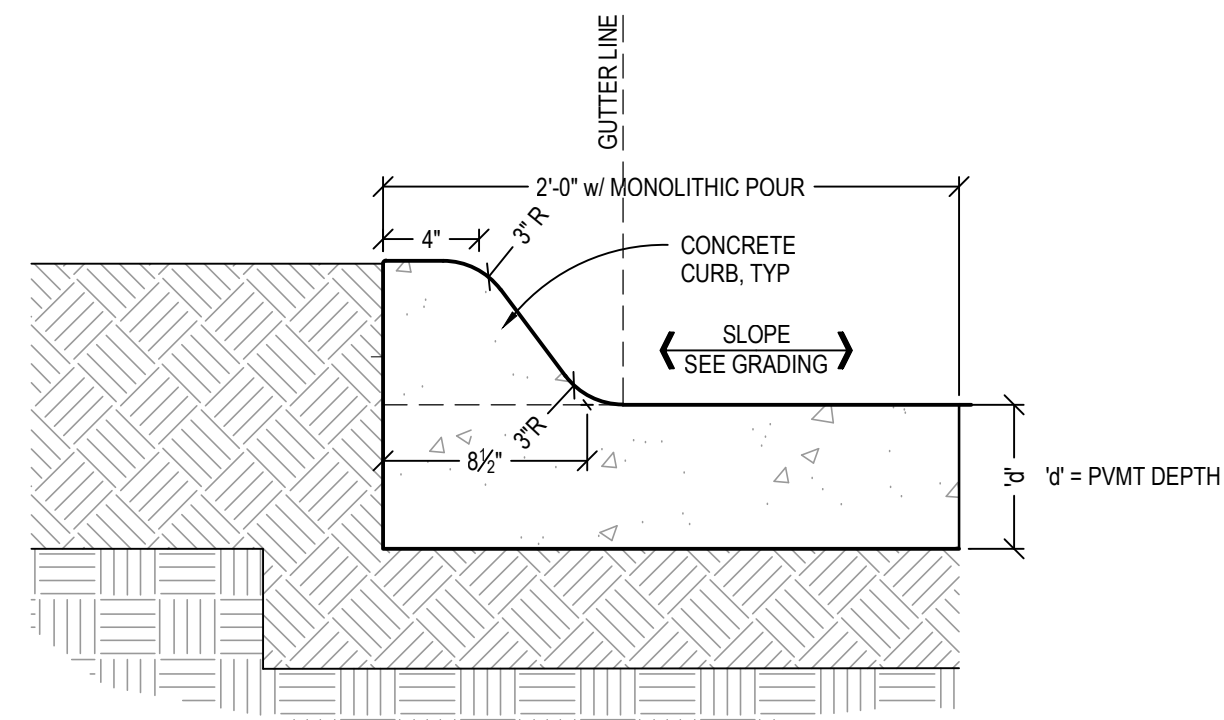
**2 TYP CONCRETE EXPANSION JOINT**  
NO SCALE (INDICATED EJ ON LAYOUT PLAN)



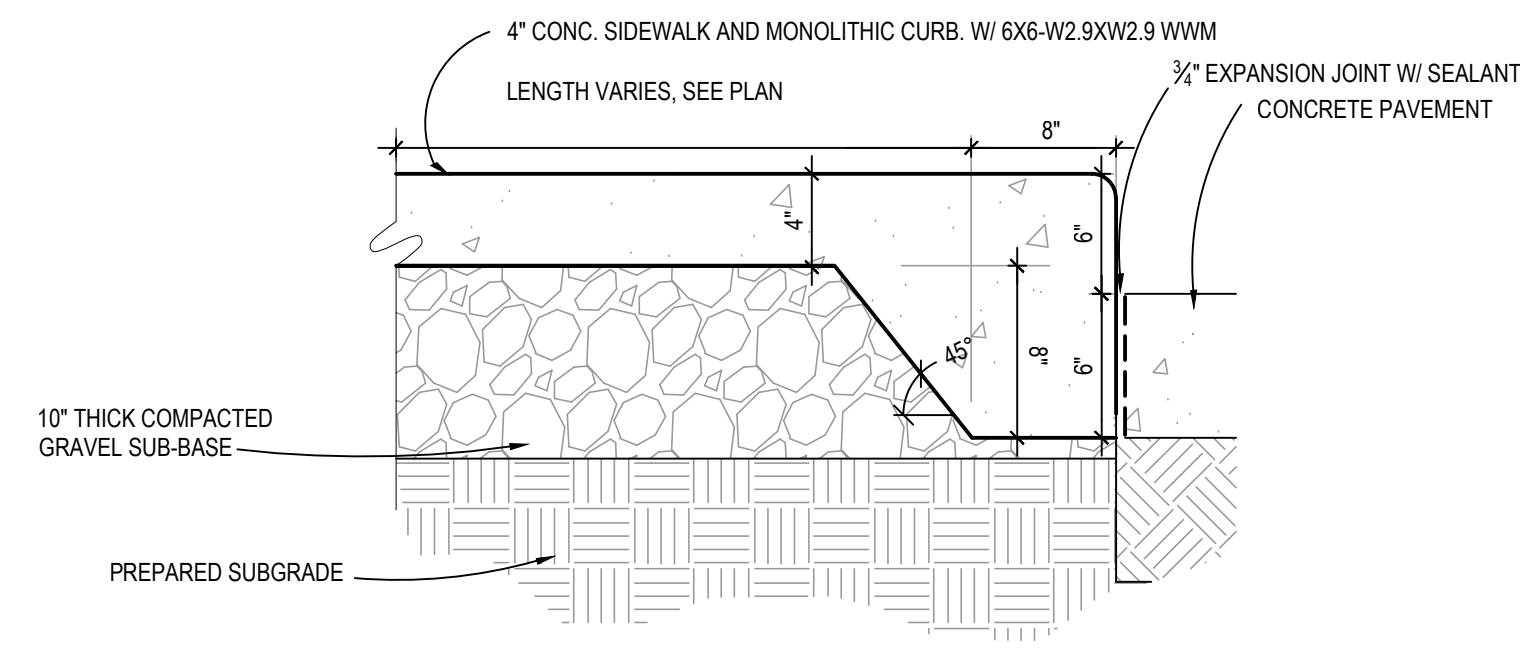
**3 TYP CONCRETE CONSTRUCTION JOINT**  
NO SCALE



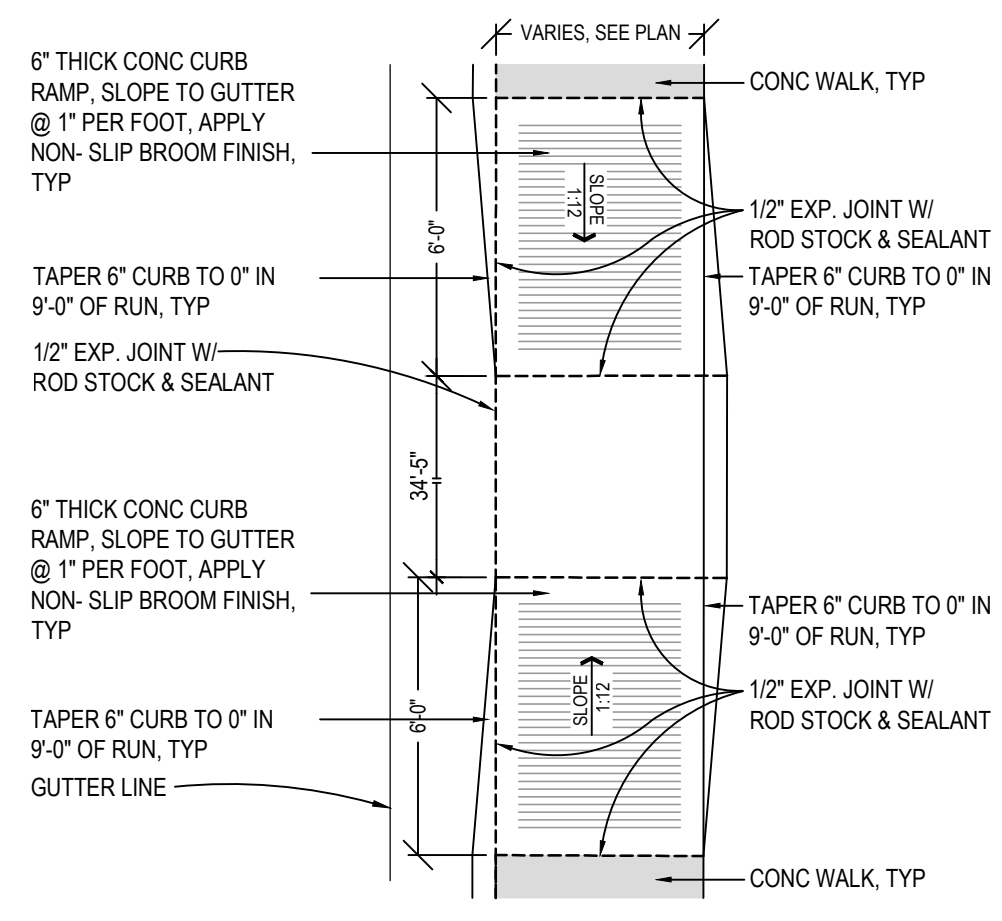
**4 CONCRETE CONSTRUCTION JOINT: PROPOSED TO EXISTING PVMT**  
NO SCALE



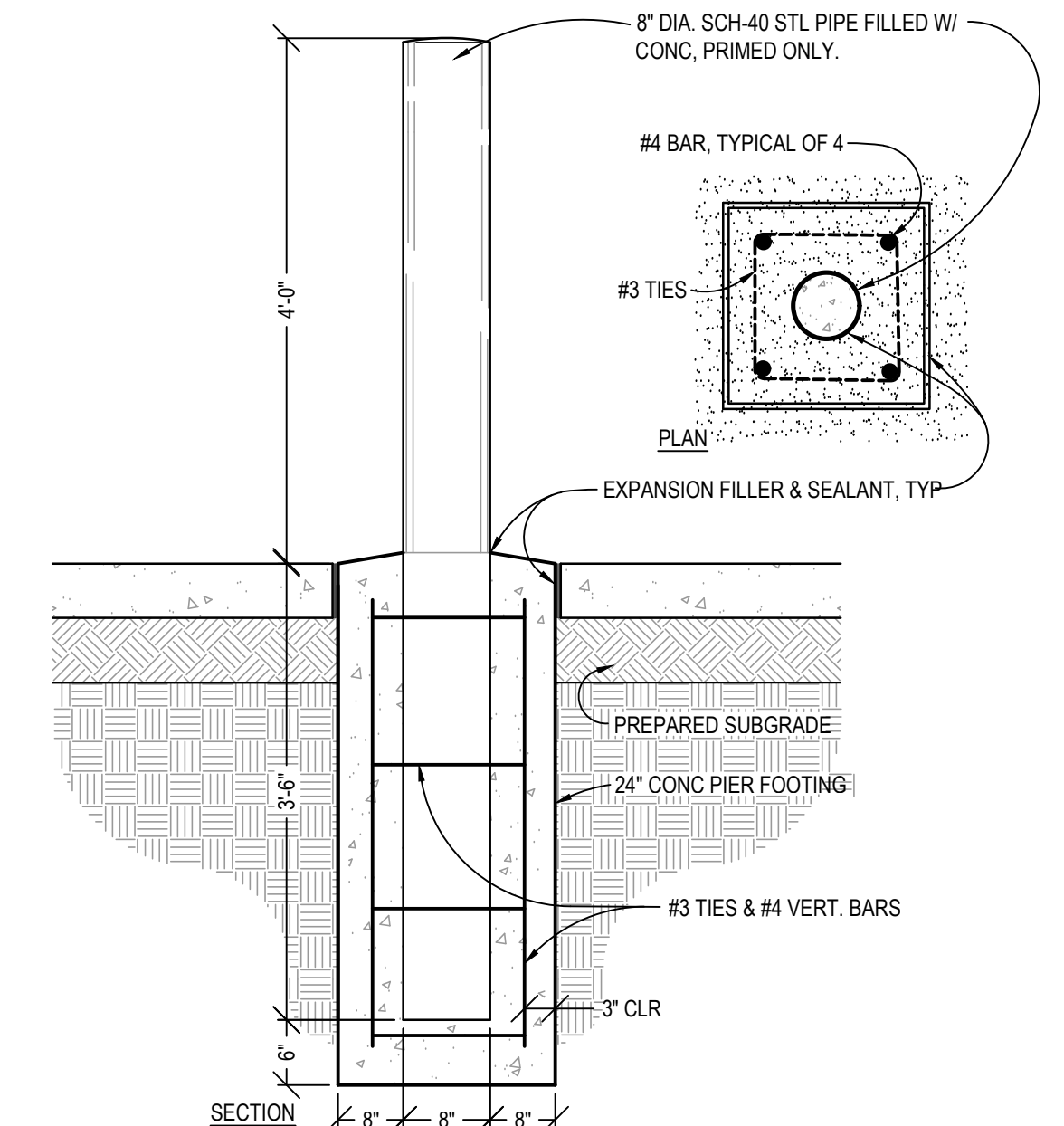
**5 INTEGRAL CONCRETE CURB & GUTTER**  
NO SCALE



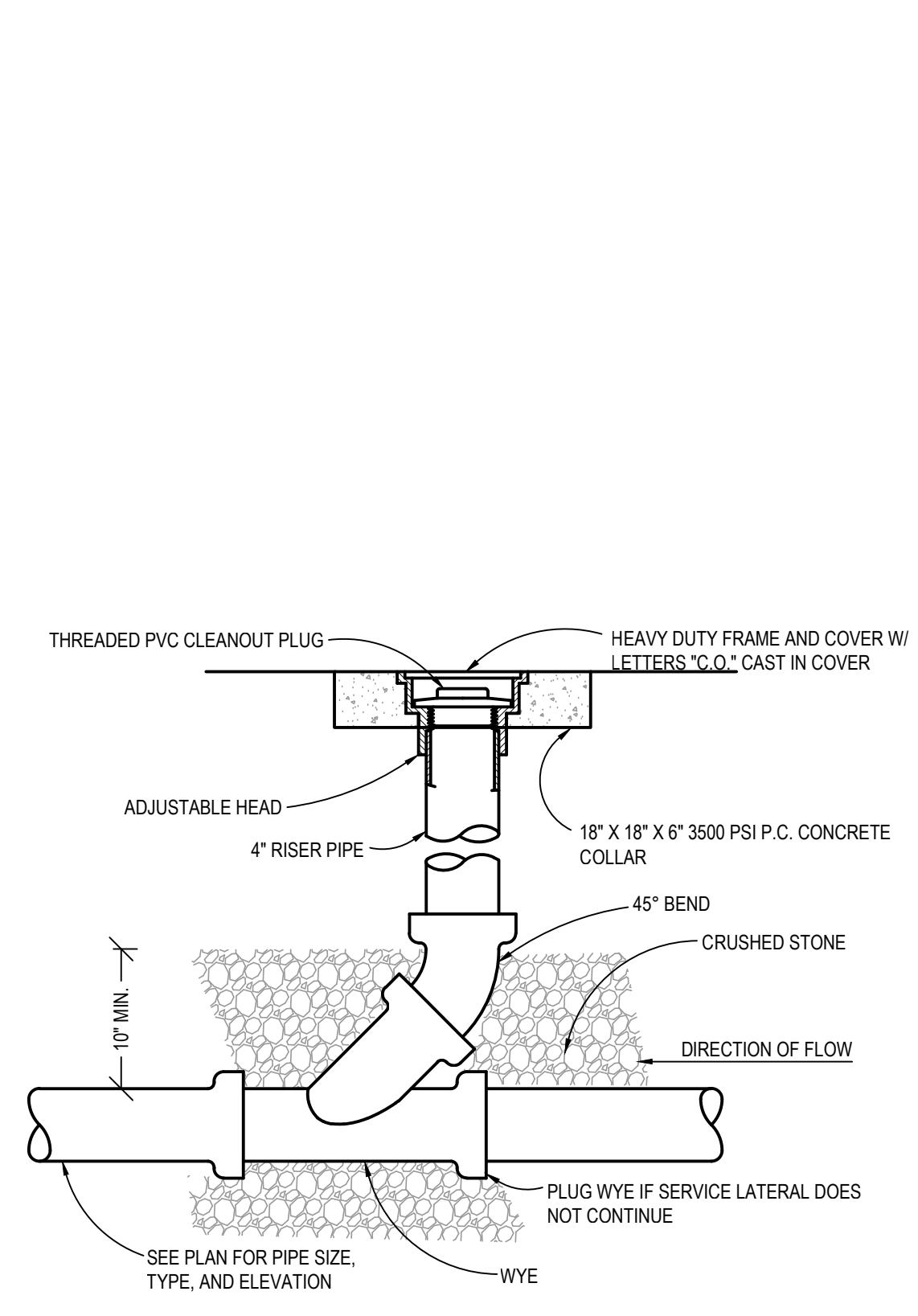
**6 TYP CONCRETE W/ THICKENED EDGE**  
NO SCALE (INDICATED CJ ON LAYOUT PLAN)



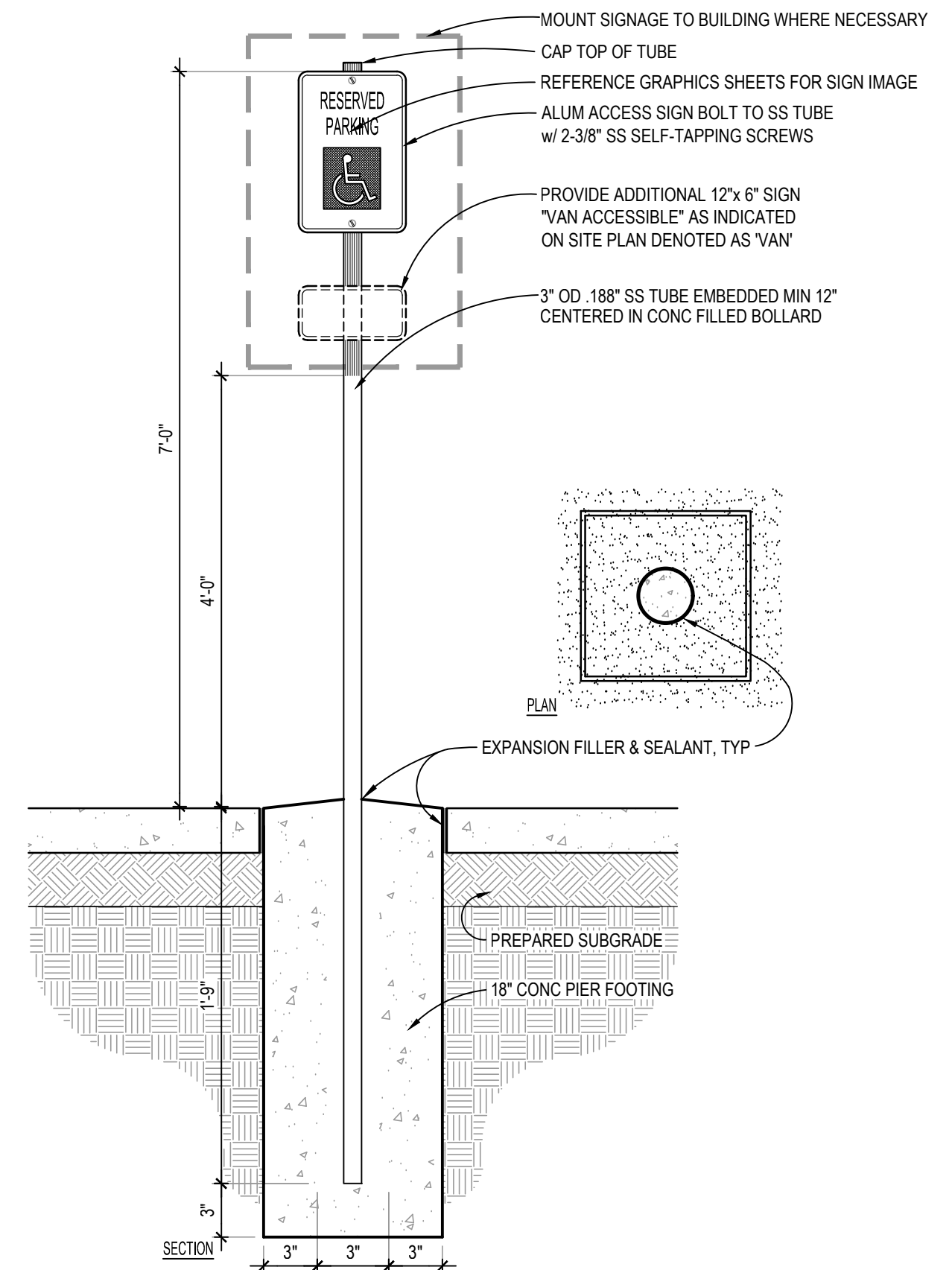
**7 PARALLEL CURB RAMP PLAN**  
NO SCALE



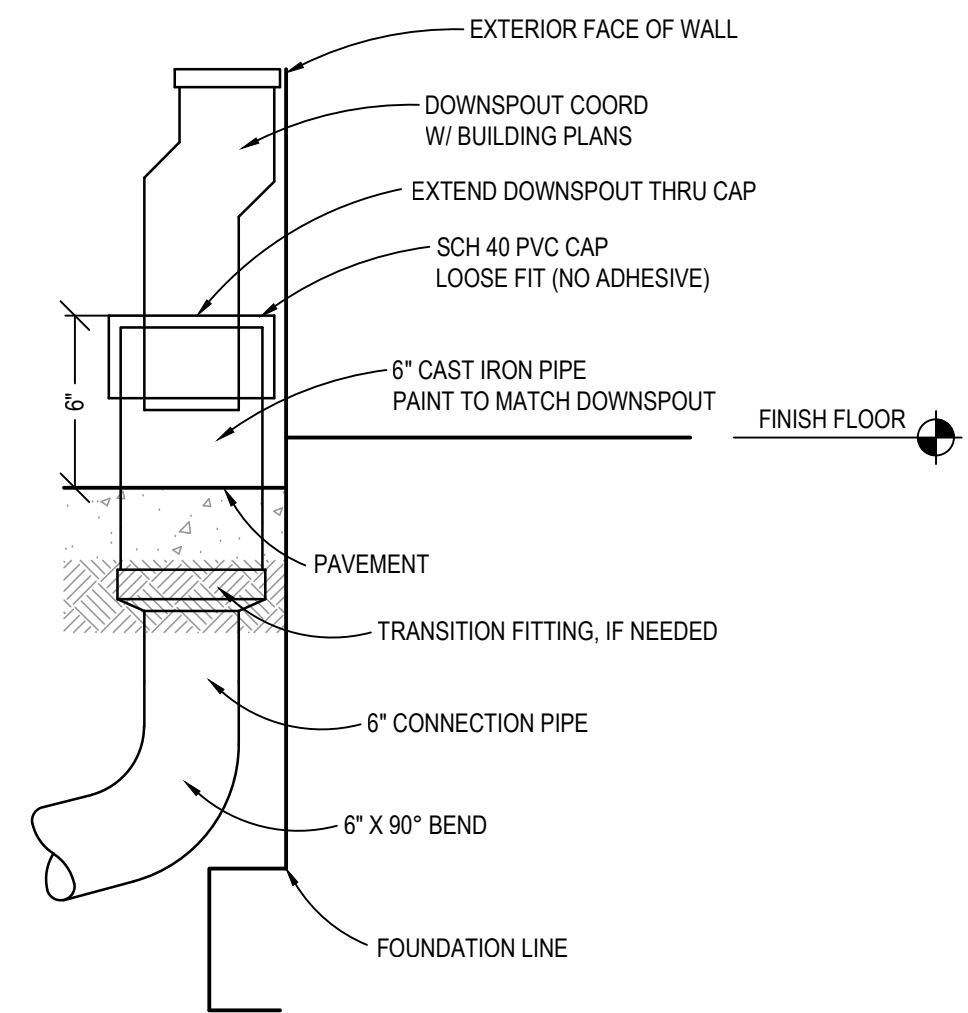
**8 CONCRETE FILLED BOLLARD**  
NO SCALE



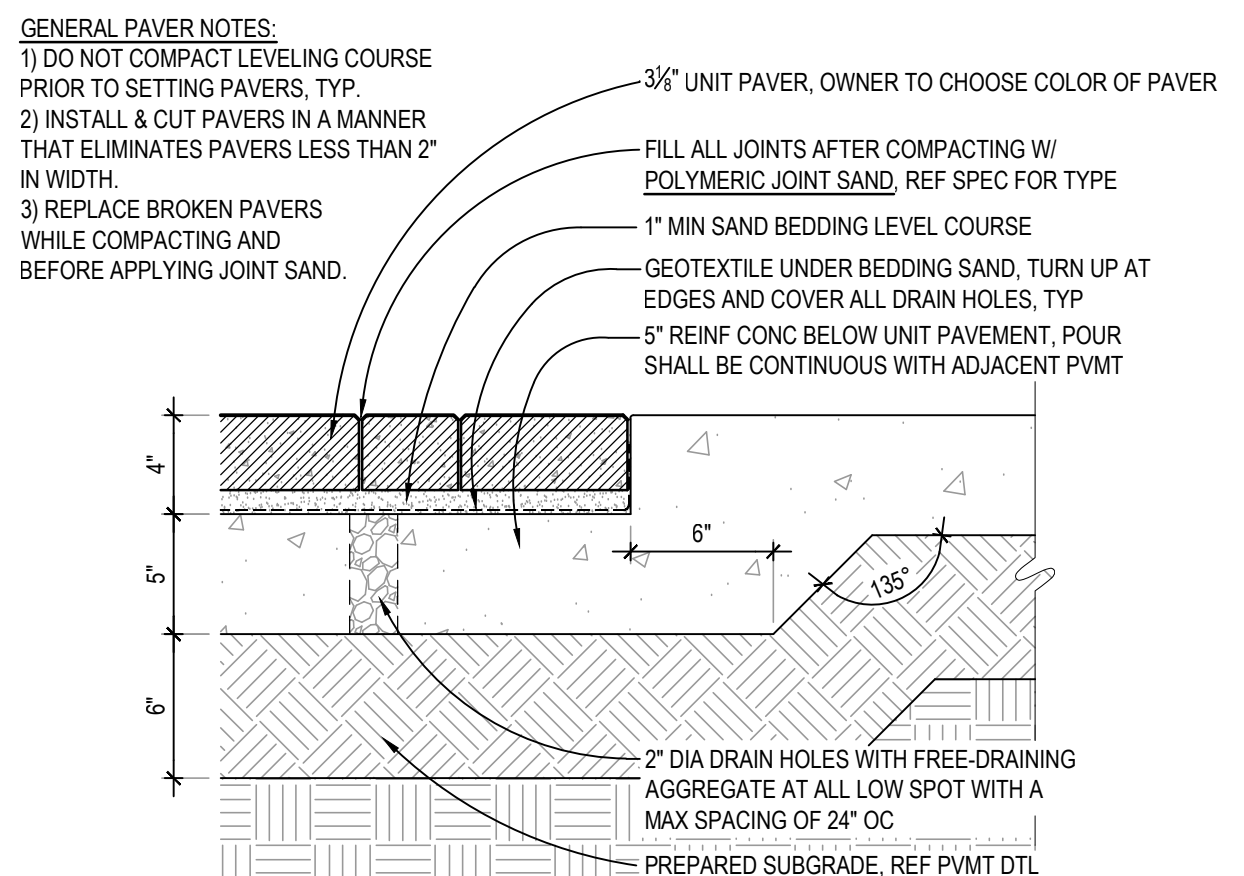
**9 SEWER CLEAN-OUT**  
NO SCALE



**10 SIGN POST W/ ADA ACCESSIBLE SIGN**  
NO SCALE



**11 DOWNSPOUT CONNECTION**  
NO SCALE



**12 UNIT PAVER W/ CONC BASE**  
NO SCALE

REVISIONS	AS PER CONSTRUCTION DOCUMENTS
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ISSUED	8-31-2016
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**BIG RED KENO**  
**8933 ANDERMATT DRIVE**  
**LINCOLN, NEBRASKA**



Project:	14-01005
Date:	19 AUG 2016
Revision Date:	31 AUG 2016

# PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE & METHOD OF HANDLING	DESIGN SPREAD & HEIGHT
<b>TREES</b>				
AFM	ACER x FREEMANII 'MARMO'	MARMO MAPLE	2 1/2" CAL., B&B, 12' HT MIN	35' W x 45' H
<b>SHRUBS</b>				
CSB	CORNUS SERICEA 'BAILELINE'	FIREDANCE DOGWOOD	#2 CONT/18" HT MIN W/ 3 CANES	5' W x 3.5' H
EAC	EUONYMUS ALATUS 'COMPACTUS'	COMPACT EUONYMUS	#2 CONT/18" HT MIN W/ 3 CANES	5' W x 5' H
HAA	HYDRANGEA ABORESCENS 'ANNABELLE'	ANNABELLE HYDRANGEA	#2 CONT/18" HT MIN W/ 3 CANES	4' W x 4' H
JKC	JUNIPERUS 'KALLAY'S COMPACT'	KALLAY'S COMPACT JUNIPER	#3 CONT/24" HT MIN W/ 4 CANES	6' W x 3' H
<b>PERENNIALS</b>				
HRS	HOSTIA 'ROYAL STANDARD'	ROYAL STANDARD HOSTIA	NO. 1 CONTAINER, 36" SPACING	36" W x 30" H
<b>GRASSES</b>				
PVNM	PANICUM VIRGATUM 'NORTHWIND'	NORTHWIND SWITCHGRASS	NO. 1 CONTAINER, 36" SPACING	36" W x 48" H
SSM	SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA'	BLUE HEAVEN LITTLE BLUESTEM	NO. 1 CONTAINER, 30" SPACING	24" W x 36" H

## GENERAL NOTES:

- PRIOR TO PLANTING TREES ON CITY PROPERTY, CONTACT THE LINCOLN PARKS AND RECREATION FORESTRY DEPARTMENT 402-441-7035 AS WELL AS LES FOR PERMITTING AND COORDINATION.
- CONTRACTOR SHALL MULCH ALL TREE PITS, REFERENCE DETAILS 1 & 2, THIS SHEET.
- REFERENCE DETAIL 1, THIS SHEET FOR ALL PLANTING DETAILS

## SOD

SOD IS BASED ON UNITED SEEDS' 'SUPER TURF II LS' SEED MIXTURE, OR APPROVED EQUAL.

SUPER TURF II LS MIXTURE SPECIES:	% OF GRASS MIX
FIRECRACKER LS TURF TYPE TALL FESCUE	22.05%
MUSTANG IV TURF TYPE TALL FESCUE	22.05%
HEMI TURF TYPE TALL FESCUE	22.05%
SPYDER LS TURF TYPE TALL FESCUE	22.05%
BLUE CHIP PLUS KENTUCKY BLUEGRASS	4.90%
NU BLUE PLUS KENTUCKY BLUEGRASS	4.90%

### TREE PLANTING NOTES:

- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, & BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
- SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE.
- APPLY 3" THICK ROCK MULCH, DO NOT PLACE MULCH IN DIRECT CONTACT W/ TREE TRUNK.
- APPLY TREE WRAP TO TRUNK FROM THE BTM UPWARD, SECURE W/ TAPE.
- EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SOIL.
- REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF ROOT BALL (REMOVE WIRE BASKETS).
- PLACE ALL ROOT BALLS ON UN-EXCAVATED OR TAMPED SOIL, TYP.

### STAKING REQUIREMENTS:

- STAKING SHALL BE W/ APPROVAL OF LANDSCAPE ARCH. IF TREE WILL NOT BE ABLE TO SUPPORT ITSELF (DEPENDS ON SPECIES).
- WIRE / CABLE SHALL BE GALV. 14-GAUGE FOR TREES UNDER 2 1/2" CAL. 12-GAUGE FOR TREES OVER 3" CAL.
- TIGHTEN WIRE / CABLE ONLY ENOUGH TO KEEP FROM SLIPPING, ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1 1/2" OF GROWTH.
- STAKES SHALL BE 1 1/2" x 1 1/2" HARDWOOD OR EQUAL.

### PLANTING BED NOTES:

- BREAK UP EXISTING SOIL TO A DEPTH OF 24".
- REMOVE TOP 12" OF SOIL & REPLACE WITH TOP SOIL.
- THOROUGHLY MIX COMPOST IN TOP 3-4" OF SOIL.
- APPLY 3" THICK BED OF ROCK MULCH ON PERENNIAL PLANT BED, DO NOT COVER PLANTS.

### SHRUB PLANTING NOTES:

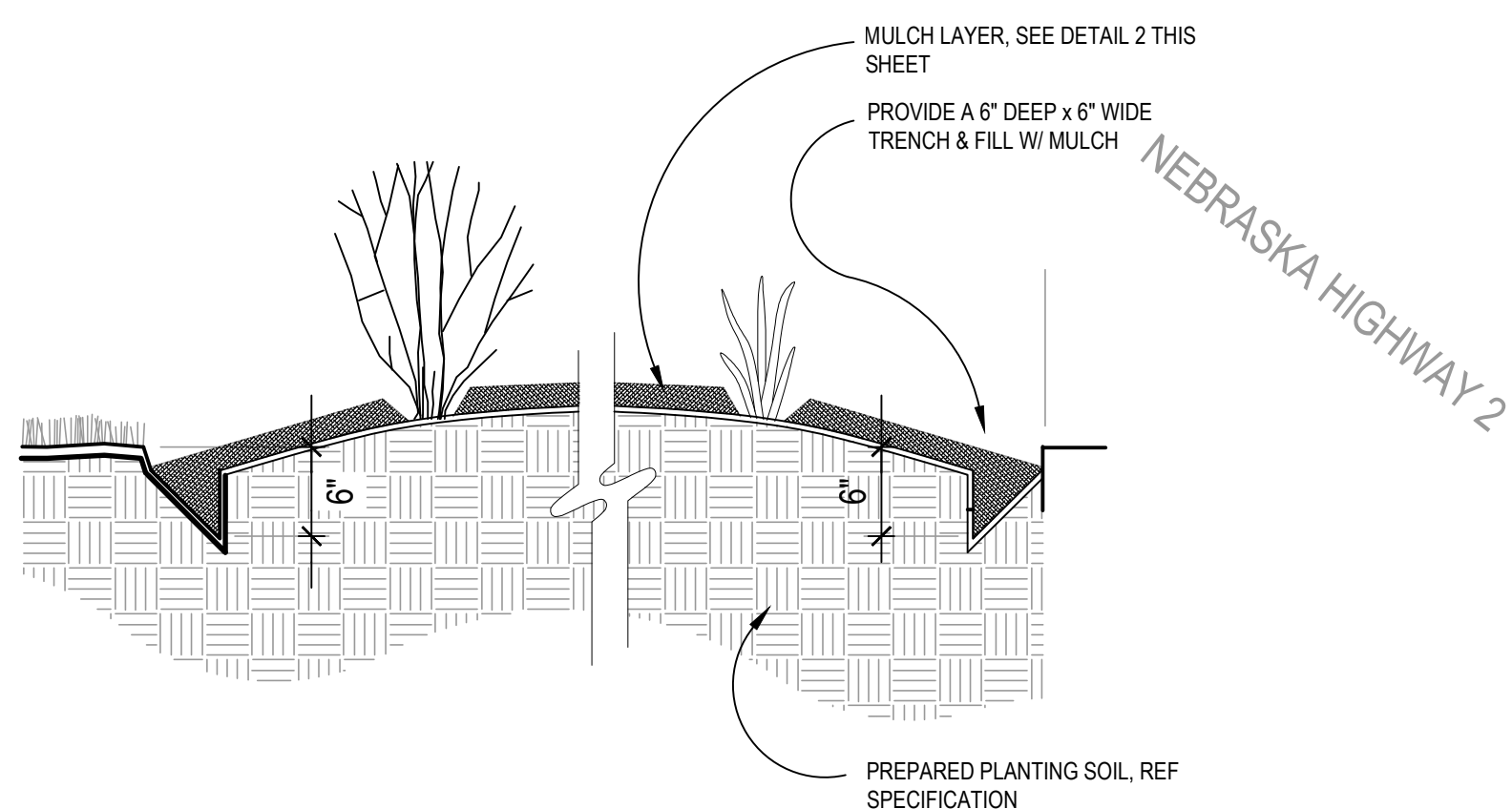
- SET SHRUB AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER.
- PRUNE, THIN & SHAPE SHRUBS IN ACCORDANCE W/ STANDARD HORTICULTURAL PRACTICE.

### INITIAL WATERING:

- WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED.

## 1 PLANTING INSTALLATION DETAILS

SCALE: 1/2"=1'-0" (IN ALL SOIL TYPES)

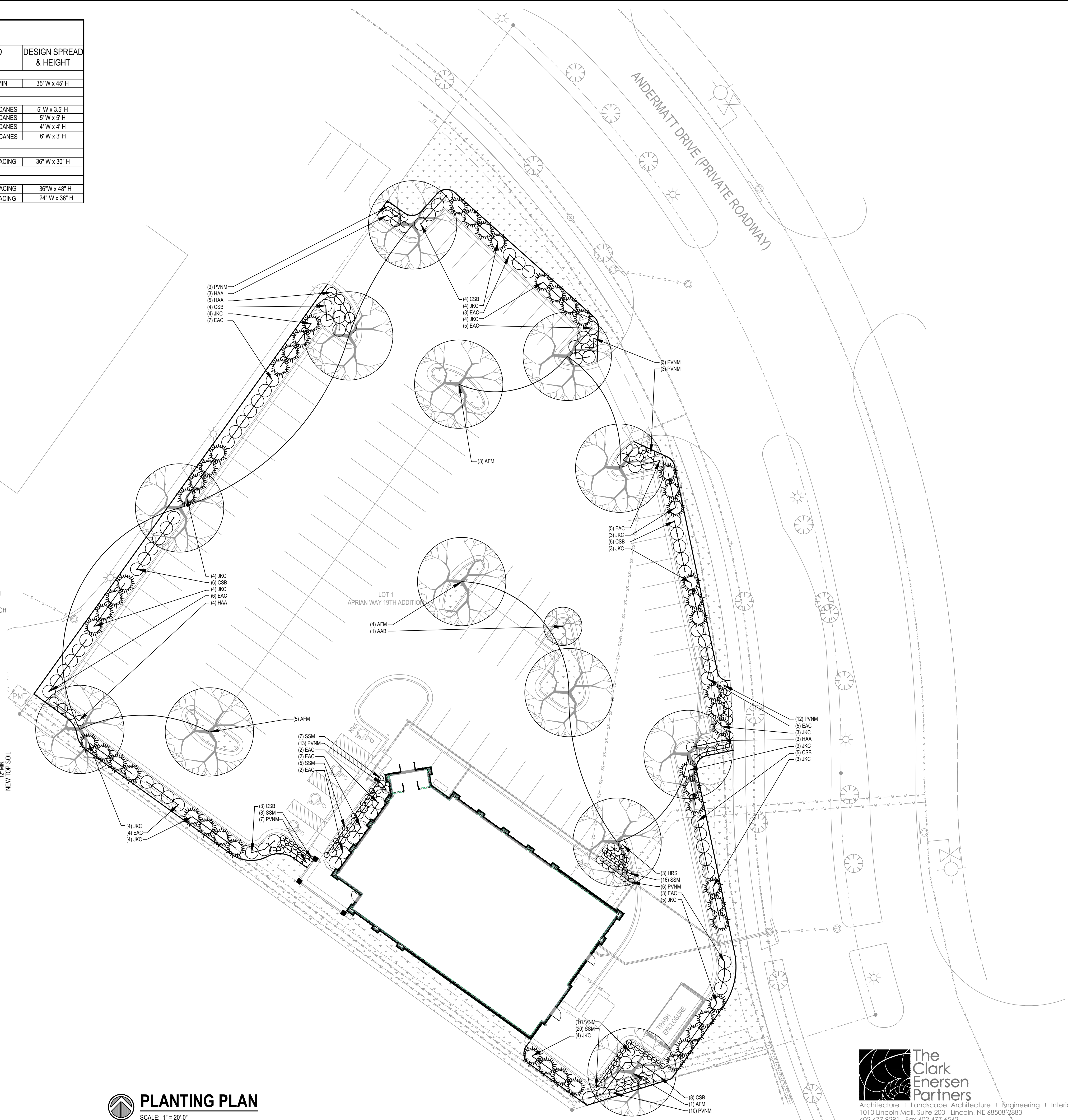


## 2 CULTIVATED MULCH EDGE

NO SCALE

## PLANTING PLAN

SCALE: 1" = 20'-0"



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**Architectural Innovations**

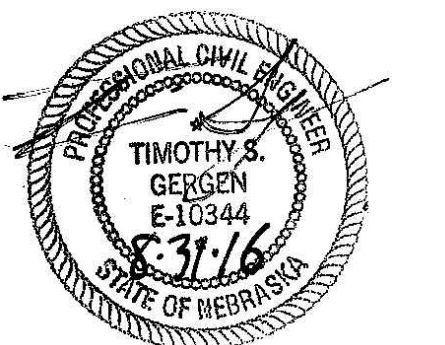
PO BOX 6425  
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 PHONE: (402) 461-4828  
 FAX: (402) 421-1113

REVISIONS  
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**BIG RED KENO**  
 8933 ANDERMATT DRIVE  
 LINCOLN, NEBRASKA



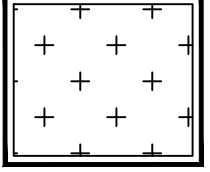
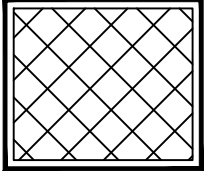
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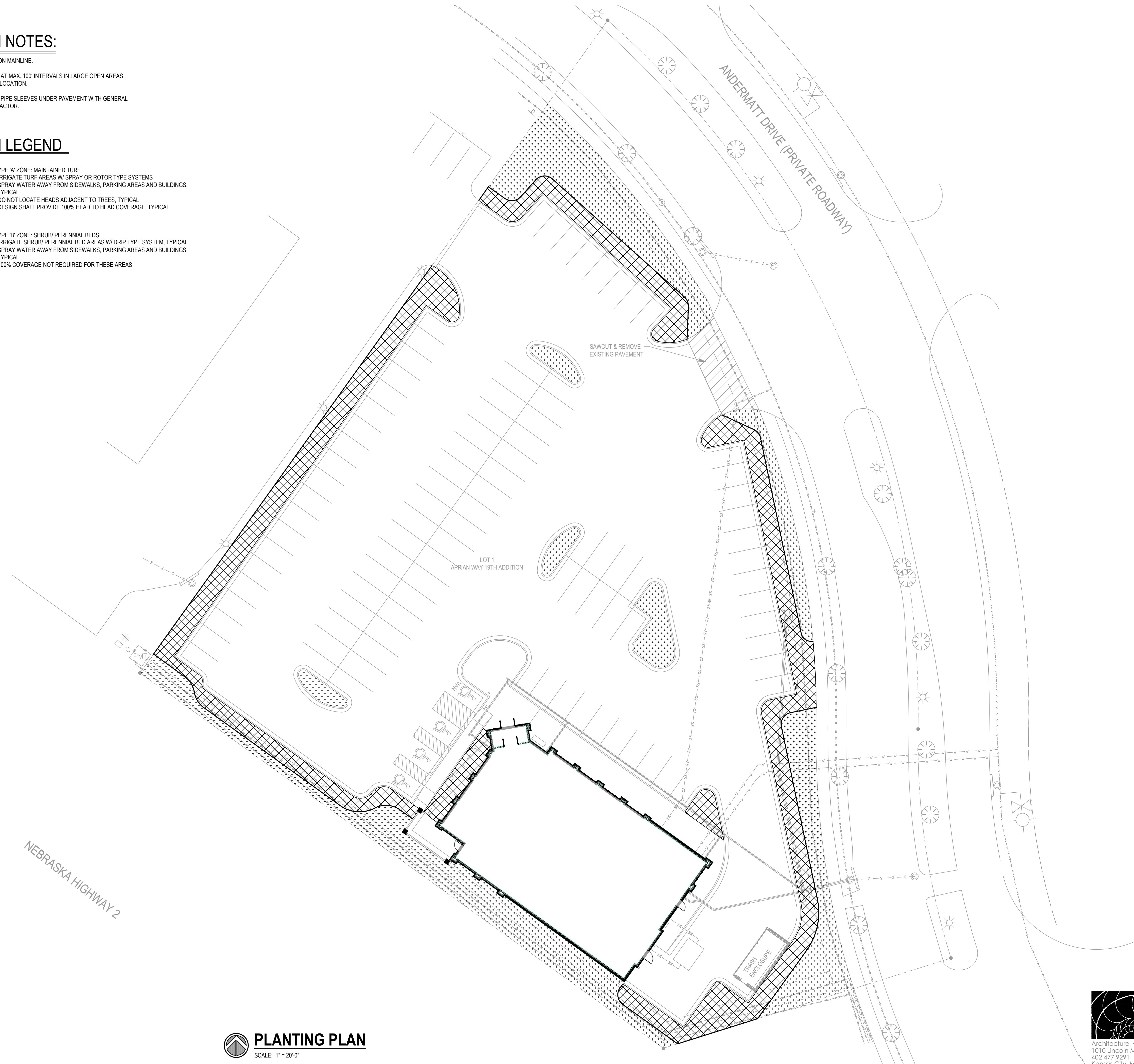
Planting Plan  
**L1.1**

**IRRIGATION NOTES:**

1. PROVIDE LOOPED IRRIGATION MAINLINE.
2. PROVIDE QUICK COUPLERS AT MAX. 100' INTERVALS IN LARGE OPEN AREAS AND ADJACENT TO K9 GRASS LOCATION.
3. COORDINATE LOCATION OF PIPE SLEEVES UNDER PAVEMENT WITH GENERAL CONTRACTOR/PAVING CONTRACTOR.

**IRRIGATION LEGEND**

-  TYPE 'A'
- TYPE 'A' ZONE: MAINTAINED TURF  
 - IRRIGATE TURF AREAS W/ SPRAY OR ROTOR TYPE SYSTEMS  
 - SPRAY WATER AWAY FROM SIDEWALKS, PARKING AREAS AND BUILDINGS, TYPICAL  
 - DO NOT LOCATE HEADS ADJACENT TO TREES, TYPICAL  
 - DESIGN SHALL PROVIDE 100% HEAD TO HEAD COVERAGE, TYPICAL
-  TYPE 'B'
- TYPE 'B' ZONE: SHRUB/ PERENNIAL BEDS  
 - IRRIGATE SHRUB/ PERENNIAL BED AREAS W/ DRIP TYPE SYSTEM, TYPICAL  
 - SPRAY WATER AWAY FROM SIDEWALKS, PARKING AREAS AND BUILDINGS, TYPICAL  
 - 100% COVERAGE NOT REQUIRED FOR THESE AREAS



 **PLANTING PLAN**  
 SCALE: 1" = 20'-0"

  
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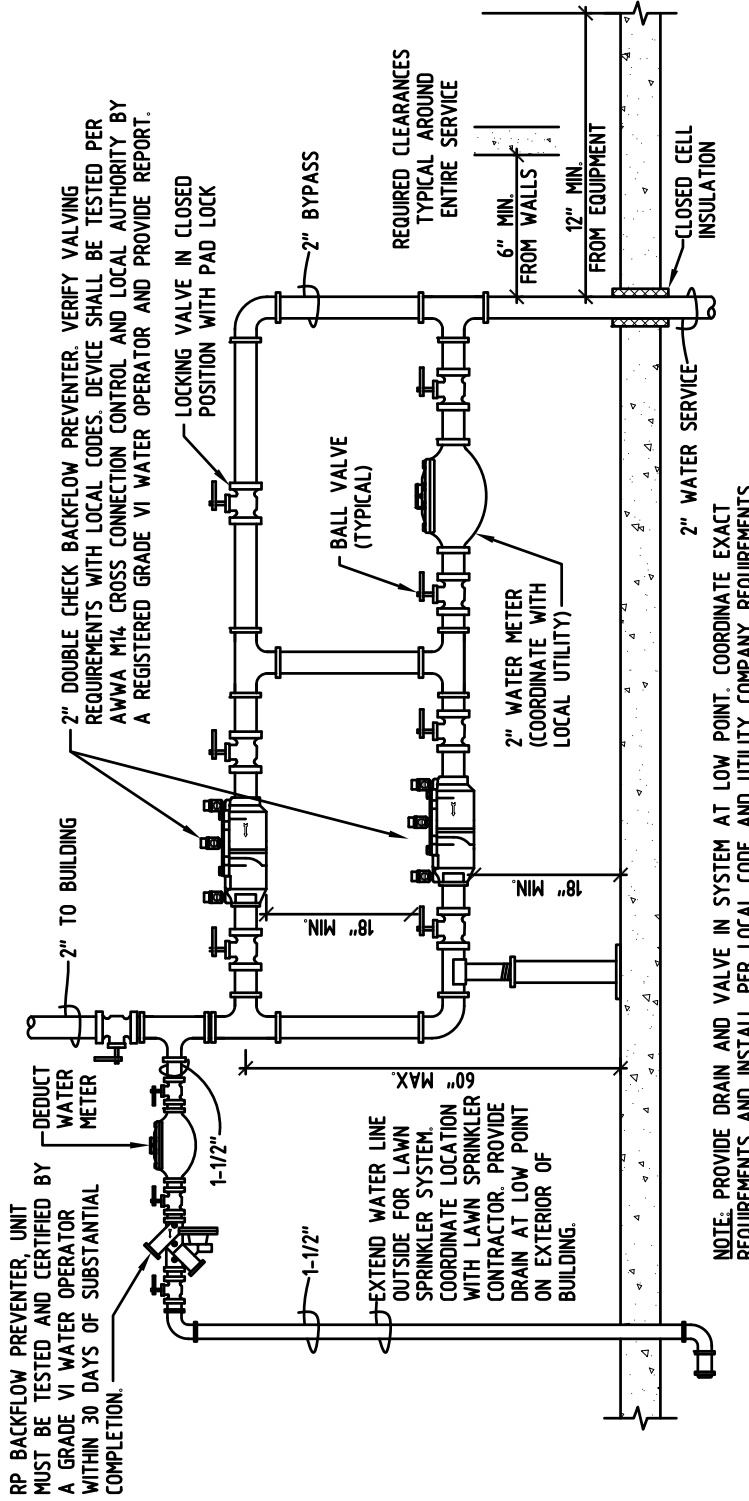
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Irrigation Plan  
**L2.1**



RP BACKFLOW PREVENTER, UNIT MUST BE TESTED AND CERTIFIED BY A GRADE VI WATER OPERATOR WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION.

2" DOUBLE CHECK BACKFLOW PREVENTER. VERIFY VALVING REQUIREMENTS WITH LOCAL CODES. DEVICE SHALL BE TESTED PER AWWA M14 CROSS CONNECTION CONTROL AND LOCAL AUTHORITY BY A REGISTERED GRADE VI WATER OPERATOR AND PROVIDE REPORT.

1-1/2" EXTEND WATER LINE OUTSIDE FOR LAWN SPRINKLER SYSTEM. COORDINATE LOCATION WITH LAWN SPRINKLER CONTRACTOR. PROVIDE DRAIN AT LOW POINT ON EXTERIOR OF BUILDING.

NOTE: PROVIDE DRAIN AND VALVE IN SYSTEM AT LOW POINT. COORDINATE EXACT REQUIREMENTS AND INSTALL PER LOCAL CODE AND UTILITY COMPANY REQUIREMENTS.

D 10  
M5.0

**WATER SERVICE DETAIL**

SCALE: NONE

620 N. 129th Street, Omaha, NE 68154  
P: 402-504-3885 / F: 402-504-4598

www.a-e-sys.com

4630 Antelope Creek Rd Ste 200  
P: 402-488-0075 / F: 402-488-0272

SHEET:

PROJECT: Big Red Restaurant 84th & Hwy2

PROJECT #: 16074  
DATE: 8/31/16  
DESCRIPTION: Addendum #1



**M5.0**

NUMBER: 1 of 1