

# URBAN DESIGN COMMITTEE

The Urban Design Committee will hold a meeting on **Tuesday, September 5, 2023**, at **3:00 p.m.** in the County-City Building, 555 S. 10<sup>th</sup> Street, Lincoln, Nebraska in **City Council Chambers** on the 1<sup>st</sup> floor. For more information, contact the Planning Department at 402-441-7491.

## AGENDA

1. Approval of UDC meeting record of [August 1, 2023](#).

### DISCUSS AND ADVISE

2. Terminal Parking Design: Discussion on the potential options for parking design and Downtown Design Standards waivers at [139 S 10<sup>th</sup> Street](#).
3. [West Haymarket Streetscape Improvement completion](#): Canopy street, south of O Street- Advisory review.

### MISCELLANEOUS

4. [Text amendments](#) to the chapter 4.36 Urban Design Committee – Title 4 Boards and Commissions under the Lincoln Municipal Code.

*Urban Design Committee's agendas may be accessed on the Internet at*  
<https://www.lincoln.ne.gov/City/Departments/Planning-Department/Boards-and-Commissions/Urban-Design-Committee>

### ACCOMMODATION NOTICE

The City of Lincoln complies with Title VI of the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973 guidelines. Ensuring the public's access to and participating in public meetings is a priority for the City of Lincoln. In the event you are in need of a reasonable accommodation in order to attend or participate in a public meeting conducted by the City of Lincoln, please contact the Director of Equity and Diversity, Lincoln Commission on Human Rights, at 402 441-7624 as soon as possible before the scheduled meeting date in order to make your request.

## MEETING NOTES

*Advanced public notice of the Urban Design Committee meeting was posted on the County-City bulletin board and the Planning Department's website.*

**NAME OF GROUP:** URBAN DESIGN COMMITTEE

**DATE, TIME AND PLACE OF MEETING:** Tuesday, August 1, 2023, 3:00 p.m., County-City Building, City Council Chambers, 555 S. 10<sup>th</sup> Street, Lincoln, NE.

**MEMBERS IN ATTENDANCE:** Mark Canney, Jill Grasso and Gil Peace; Emily Deeker, Tom Huston and Michelle Penn absent.

**OTHERS IN ATTENDANCE:** Paul Barnes, Arvind Gopalakrishnan, Collin Christopher and Teresa McKinstry of the Planning Department; Jennifer Hiatt with Urban Development Department; and Omar Attaie.

Vice-Chair Peace called the meeting to order and acknowledged the posting of the Open Meetings Act in the room. He noted the approval of the minutes will be postponed until the next meeting due to a lack of quorum.

### **Sidewalk Café Application for Pita & Naan at 1434 'O' Street**

Arvind Gopalakrishnan stated this is an application for a permit for a sidewalk café covering the right-of-way. The café meets the standards for the most part. A hand drawn sketch provided of the space does not provide detail of the obstructed or unobstructed passageway after considering a 13.5 foot sidewalk café. The application also does not specify the joinery details between the metal railing and the brick pavers. The edge of the outdoor café space might interfere with the adjoining pedestrian walkway. He showed a sketch of what the applicant is proposing. Staff met with the applicant and discussed some options. The café could be 12 feet wide and that leaves 3 feet 6 inches off the lamppost and 7 feet 6 inches for the walkway. The idea is to maximize the space. The applicant would like space for 12 people. He believes 12 people could be seated in a 12 foot' wide café. Staff is recommending conditional approval for a 12 foot wide café.

Canney questioned is there has to be an exit on the south. He wondered if there is a possibility of closing what appears to be a pathway out of the door on the right and taking out that piece of fence. Omar Attaie stated that he has been told that is where a post needs to be. Gopalakrishnan also noted that is where the door opens. Canney is supportive of outdoor dining in downtown and was just looking for any possible solution. Gopalakrishnan showed the staff proposed arrangements that are possible for 12 person seating.

Peace inquired what the standard is for a pedestrian walkway. Gopalakrishnan stated that between the lamppost and parking meter is around 7 feet of space. That is enough, but right after the sidewalk café there is a planting bed, streetlights and on-street parking. Peace asked about the minimum distance. Gopalakrishnan answered that the minimum is 6 feet.

Peace asked if bikes are allowed in downtown. Barnes responded there is a prohibitive boundary in downtown. It is enforced by business owners. It is a safety issue. There is a boundary. Bike racks are available for parking.

Peace is in favor of outdoor dining. He would go out as deep on the light pole and not have a sliver on one side.

Grasso asked about the 11 foot seating area. She is wondering about downtown, with people walking and bikes. 3.5 feet can start to get a little narrow. She thinks that 3 feet is what is usually spaced between people. It is not ADA (American's with Disabilities Act), but meets downtown requirements. Gopalakrishnan stated that with 11 feet, it might get a little cluttered. Grasso stated that if it was bumped out to the lamppost, you might get 4 tables with 4 seats each in the outdoor space.

Grasso inquired if the fence will be installed there permanently. Attaie replied yes. He believes the 11 feet makes things very tight. There needs to be spacing and there is the wheelchair code. He just wanted to do exactly what was there previously.

Peace wondered about the dimensions of Lazari's outdoor space goes. Gopalakrishnan stated it was 13.5 feet. Attaie believes the lamppost is overstated. He thinks it can be avoided very easily.

Canney understands that the master plan for 'O' Street is still being worked on. He wondered if it is too early to give any consideration to the master plan. Collin Christopher believes it is too early. The goal is to get away from always attaching the café to the building. There is the option to push these out to the curbside. They are also considering both options of one attached to the building and one on the curbside, with a pathway in the middle. Christopher met with Attaie, along with Jennifer Hiatt. There is a struggle as City staff looks at the light pole that may or may not go away. If you are just looking at this café on its' own, people can move around it. If there were a couple of cafés stacked up, it could be an issue to navigate in and out, and around many items. He doesn't believe it is an ideal situation. If someone else did this, you are creating a pinch point. That is his struggle. You can push it to 13.5 feet and go around the light pole, but that isn't ideal for him.

Peace asked about the timeline regarding the master plan. Christopher believes there is a solid expectation of spring 2025. He thinks what that means is, if the Urban Design Committee encouraged staff to allow the applicant to maximize his space with the understanding that with the streetscape project, there might be a decision in the future that avoids this scenario. Peace asked if the master planning had started. Christopher stated they developed a master plan that doesn't get into high detail yet. They are still working on the schematic design. The goal is by the end of the year to be done with design development.

Canney appreciates all comments. Knowing the risk, he wants to maximize seating and success for the applicant.

Attaie appreciates the comments. There are many businesses that have 4 to 5 feet of passageway.

Canney wants the opportunity to maximize the space with the understanding that in a few years, the configuration might change.

Grasso wondered if the applicant could install a fence where Lazari's previously had their fence.

Canney doesn't mean to be disrespectful of City staff, but he believes outdoor dining space is very nice to have.

Attaie would be happy with 13.5 feet with mirroring what was there before.

Barnes thinks that when we look at these, they are looked at individually. The master plan will eventually change that. We heard in the past that people weren't happy with the gap when Lazari's was there. Knowing that if this extends out, it is temporary until the master plan. There will be a zig zag around it and people will get used to it. We just don't want it to be unsafe. He noted that staff considered some options. He would like specifics on what is being considered.

Canney is comfortable going out to the light pole with understanding that this could be reevaluated when the master plan is done, if there are concerns about it being too big.

Attaie inquired if there could be more tables if the outdoor space went out to the light pole. Gopalakrishnan believes there could be 4 sets of 4 seaters. Attaie would be comfortable with that.

Peace would like to see it go to the light pole. He would like to create as much a possibility for success as possible. Grasso agreed. She would like to see it extend to the light pole as well. She believes you could fit 12 people in there comfortably. She recommended eliminating the gap. You can always fill in any gap with a planter or something.

Gopalakrishnan will work with the applicant to maximize the space for 16 people.

Barnes stated that City staff will work with the City Clerk to get the applicant his sidewalk café permit.

**STAFF REPORT AND MISCELLANEOUS:**

Christopher stated that he had nothing else to present.

There being no further business, the meeting was adjourned at 3:30 p.m.

## URBAN DESIGN COMMITTEE STAFF REPORT

APPLICATION NUMBER	Urban Design Record #23110
APPLICATION TYPE	Advisory Review
ADDRESS/LOCATION	139 S 10th Street
HEARING DATE	September 05, 2023
ADDITIONAL MEETINGS	-
APPLICANT	Derek Zimmerman and Justin Hernandez, <a href="mailto:derek@revdev.com">derek@revdev.com</a>
STAFF CONTACT	Arvind Gopalakrishnan, 402-441-6361, <a href="mailto:agopalakrishnan@lincoln.ne.gov">agopalakrishnan@lincoln.ne.gov</a>

### DISCUSSION ITEM

#### Summary of Request

Rev Development (Mr. Derek Zimmerman and Justin Hernandez) is proposing an enclosed parking structure on the lot south of the Terminal building to address the needs and requirements of their condo tenants. The site currently houses a drive-thru area for two bank machines of their commercial tenant- First Interstate Bank.

The proposed single-story, enclosed parking structure would accommodate about 25 parking stalls based on the current needs of their tenants. LTU requires the entrance and exit to the parking to be on the south side, as the alley north of the parking lot might not provide sufficient turning area and visibility for the cars to and from this building. The parking structure would be at a 20' setback from the west alley, where there is diagonal parking for the condo office. It has a 60' setback from the south property line fronting 10<sup>th</sup> Street.

The proposed building is a metal structure spanning 64' x 117' with vinyl wrap (PVF film) on all sides with about 60% ventilation provided by the vents under the roof running along the perimeter of the building. The building does not have any windows but has a wrap with a printed mural (see Attachment E). Rev Development is planning this structure as a short-term solution for the next 5-7 years. The life expectancy of the façade material is about 10 years.

The covered walkway over the alley will be retained, and the roof over the bank machines will be demolished and replaced with the new parking structure.

In 2021, the applicant had requested a waiver of Downtown Design Standard Title 3, Chapter 3.76, Section 4.1(f) which allows drive thru lanes only when located behind or beside buildings and prohibits drive thru lanes between buildings and streets. The application for waiver was conditionally approved by the Planning Director for a period of seven years from September 28, 2021.

The committee’s advice is requested on the size, materiality, and placement of the building considering the nature of the project, challenges the development team is facing, and the possible design waivers to receive approval. The developer is proposing two options to gain feedback from the Urban Design Committee and will return in October to request final approval. The two options proposed are:

Option 1: Construct an enclosed parking structure approximately 60 feet west of the 10<sup>th</sup> Street ROW line. The building would be encased in a PFV vinyl wrap with historic imagery of the Terminal Building. A masonry wall would be built to screen the parking between the enclosed parking structure and the public ROW.

Option 2: An enclosed parking structure would be built to the property line along 10<sup>th</sup> Street. No masonry wall would be built with this option.

## **Compatibility with the Lincoln Municipal Code**

### **Chapter 3.76, Lincoln Downtown Design Standards**

#### **Section 4.1: Site Development**

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- Downtown Lincoln buildings west of 19<sup>th</sup> Street and on North 21<sup>st</sup> Street from O to Q Streets shall be substantially “built-to” their front property lines (and on corner lots, shall be built-to both front property lines). - *Non-compliant*
- Any on-site surface parking shall be screened pursuant to Section 7.13 of Chapter 3.50, *Design Standards for Screening and Landscaping*.

**Screen Location, Coverage, and Layout** (7.13 Screening for Downtown Lincoln) - *Further detail is needed to see if this proposal meets parking lot screening requirements. Option 1 shows a masonry wall along 10<sup>th</sup> street and part of N street*

Those properties located within the B-4 and O-1 Districts are subject to the following screening requirements:

- Any on-site surface parking shall be paved and must be screened with plant materials, masonry walls, or masonry and metal (not chain-link) fences, or some combination thereof, to provide at least a 90% screen from grade to three feet above the grade.
- Parking shall be set back six feet from the property line if only plant materials are used for screening or set back three feet if fence or wall are used.
- Parking and driveways between a building and the street are prohibited with two exceptions:
  - o hotels may offer drop-off lanes at their principal entrance; and
  - o buildings situated on a parcel occupying an entire blockface may be built to one corner (fronting two streets) and may offer screened parking behind and/or beside the building.
- Drive-through lanes, if used, must be located behind or beside buildings, and are prohibited between the building and streets. - *Non-compliant, but currently approved by Planning Director waiver.*
- Drive-through facilities (in which the customer is served directly in the car including, but not limited to, drive-in teller windows and ATMs, drive-in restaurants, motorized vehicle fuel sales facilities, motorized vehicle repair/service, or motorized vehicle wash facilities) are prohibited in the area of the B-4 Lincoln Center Business District bounded by 10<sup>th</sup> Street, 150 feet north of P Street, 14<sup>th</sup> Street, and N Street. - *Non-compliant, but currently approved by Planning Director waiver.*

#### **Section 4.2: Building features**

Materials:

<https://linclanc.sharepoint.com/sites/PlanningDept-Boards/Shared Documents/Boards/UDC/REPORTS/2023/09 Sept/Terminal Parking Design staff report.docx>

- For the first 20 (twenty) feet above street level, durable masonry materials, such as stone, brick, or tile, or similar materials such as pre-cast concrete, or poured-in-place concrete are required as the primary exterior material facing streets for Downtown Lincoln buildings. Ample windows are allowed but glass curtain wall structures are allowed only in the area more than 20 feet above street level. Decorative accents of durable materials including metal architectural panels, architectural tile, and metalwork are allowed. Other high-quality, durable materials as accents or primary materials may be proposed to and approved by the appropriate design review board.- *Non-compliant*
- Use of lap or shingle siding of any material including wood, vinyl, cementous, or painted or corrugated metal is prohibited for Downtown Lincoln buildings. - *Non-compliant*

Parking structures and lots:

- Parking structures shall be designed with usable floor area on the ground floor between parking areas and public sidewalks if built between (and including) N and Q Streets, and between 9<sup>th</sup> and 19<sup>th</sup> Streets, and along North 21<sup>st</sup> Street between O and Q Streets and along Canopy Street. - *Non-compliant*
- Entrances and exits shall be located and grouped to minimize curb cuts and other interruptions of pedestrian movement on sidewalks.- *Questionable*

# ATTACHMENT A - Location Map



2022 Aerial



**UDR23110 - Terminal Parking Design (139 S 10th Street)**

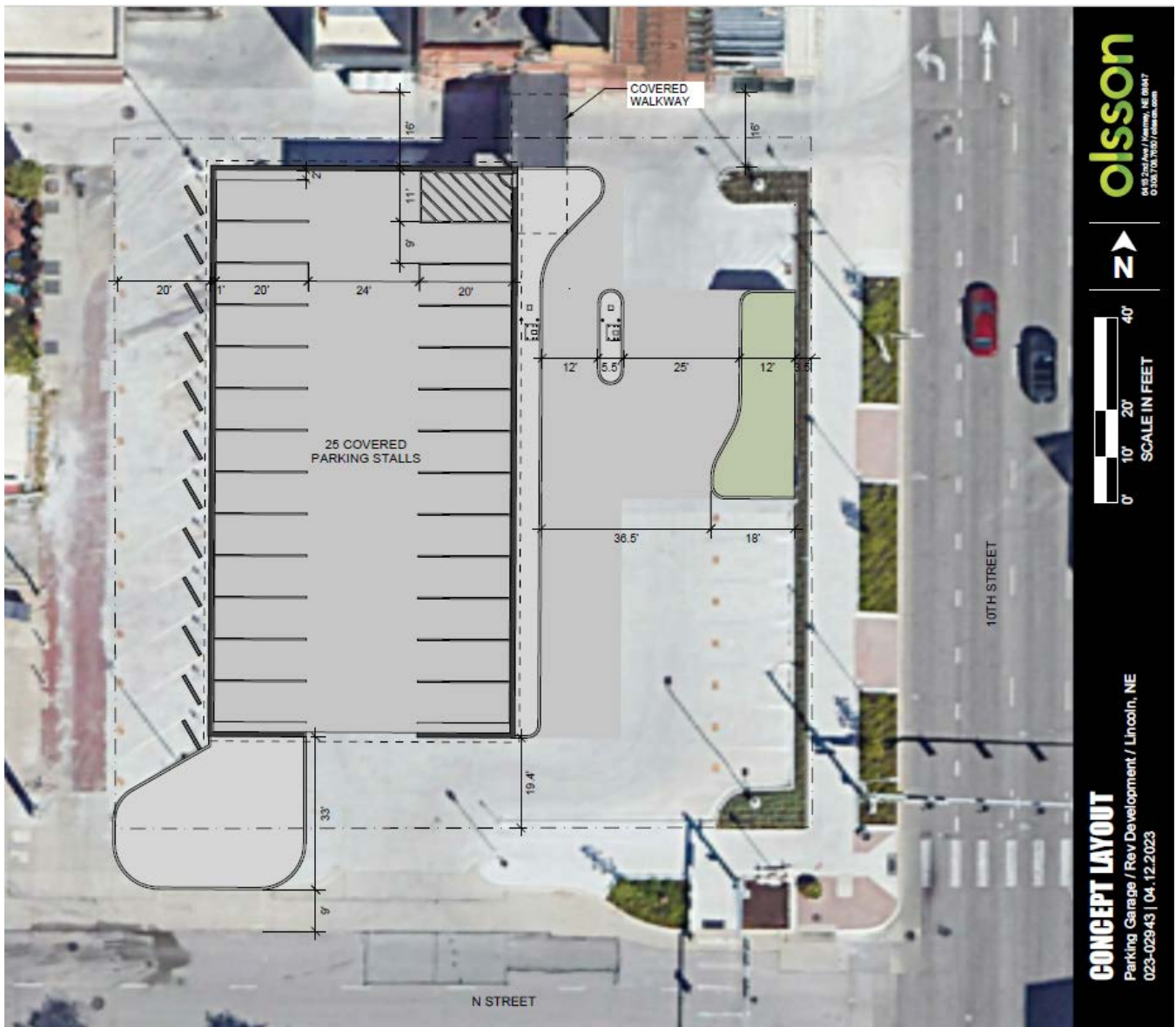
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ATTACHMENT B – Existing Conditions

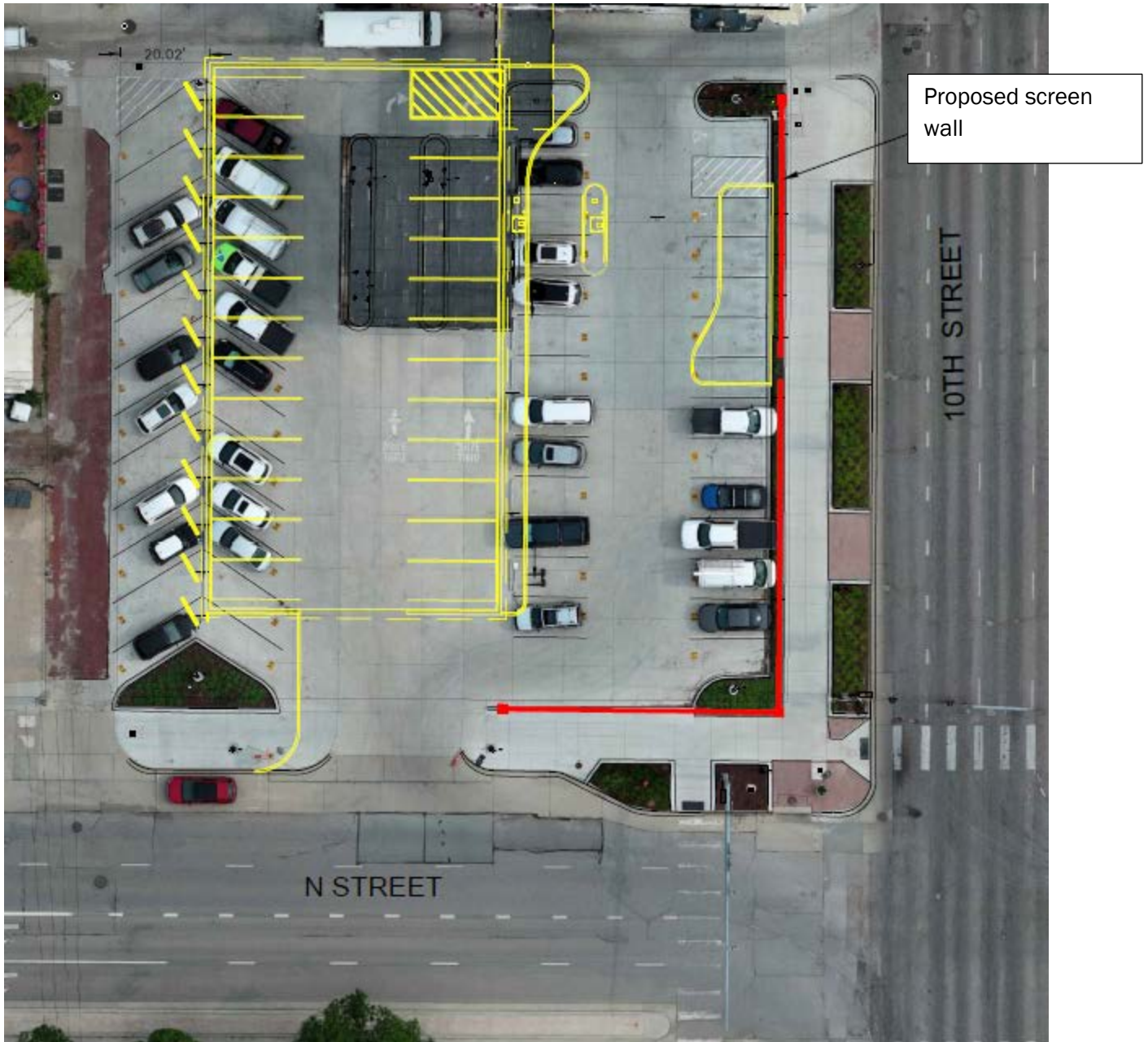


# ATTACHMENT B - Proposed Site Plan with dimensions

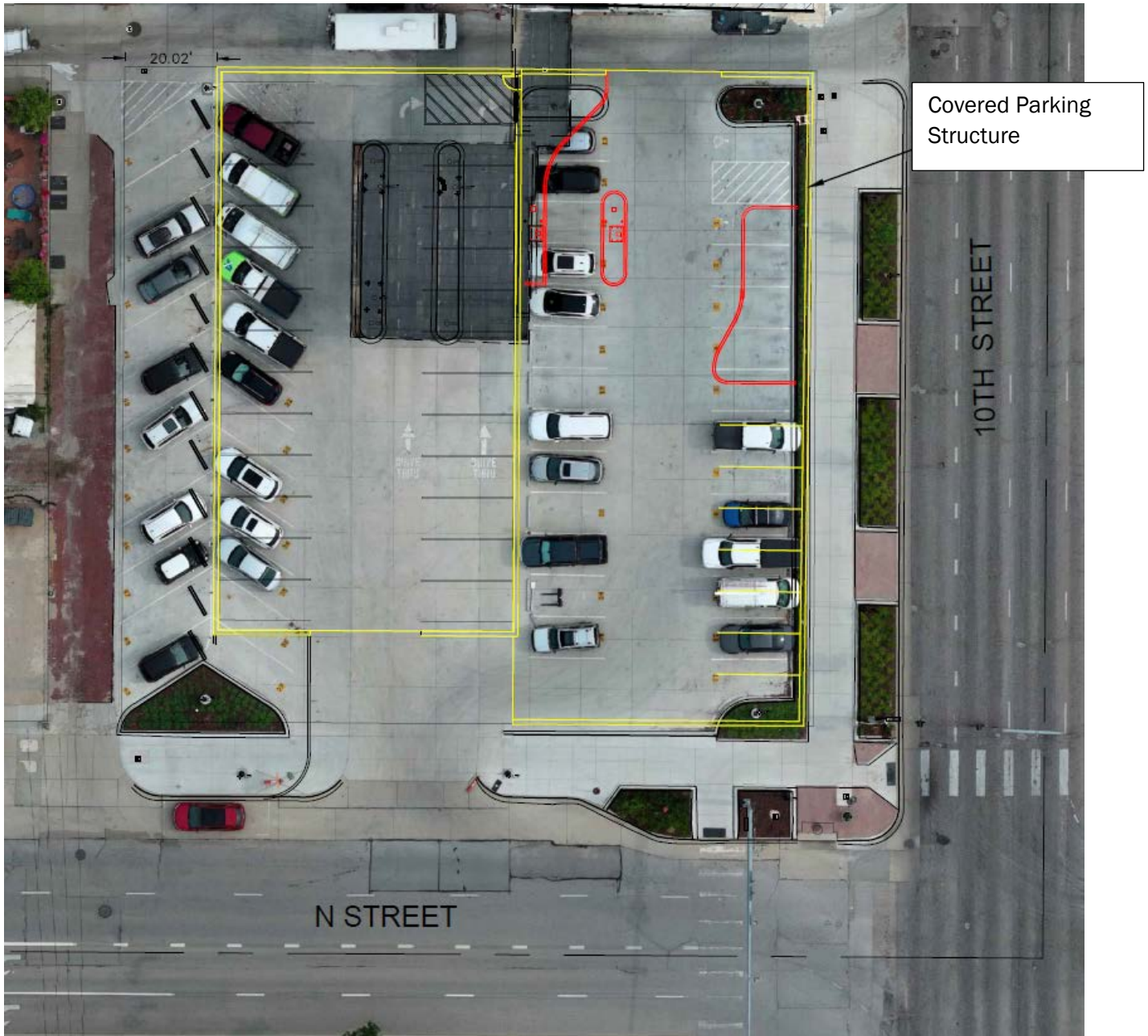


# ATTACHMENT C - Option 1 (with screening)

<https://linclanc.sharepoint.com/sites/PlanningDept-Boards/Shared Documents/Boards/UDC/REPORTS/2023/09 Sept/Terminal Parking Design staff report.docx>



ATTACHMENT D -Option 2



**ATTACHMENT E –Perspective Images of the initial Option**

<https://linclanc.sharepoint.com/sites/PlanningDept-Boards/Shared Documents/Boards/UDC/REPORTS/2023/09 Sept/Terminal Parking Design staff report.docx>





N STREET

10TH STREET

**EXISTING CONDITIONS**

Parking Garage / Rev Development / Lincoln, NE  
023-02943 | 04.12.2023



SCALE IN FEET



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6415 2nd Ave / Kearney, NE 68847  
O 308.708.7650 / olsson.com

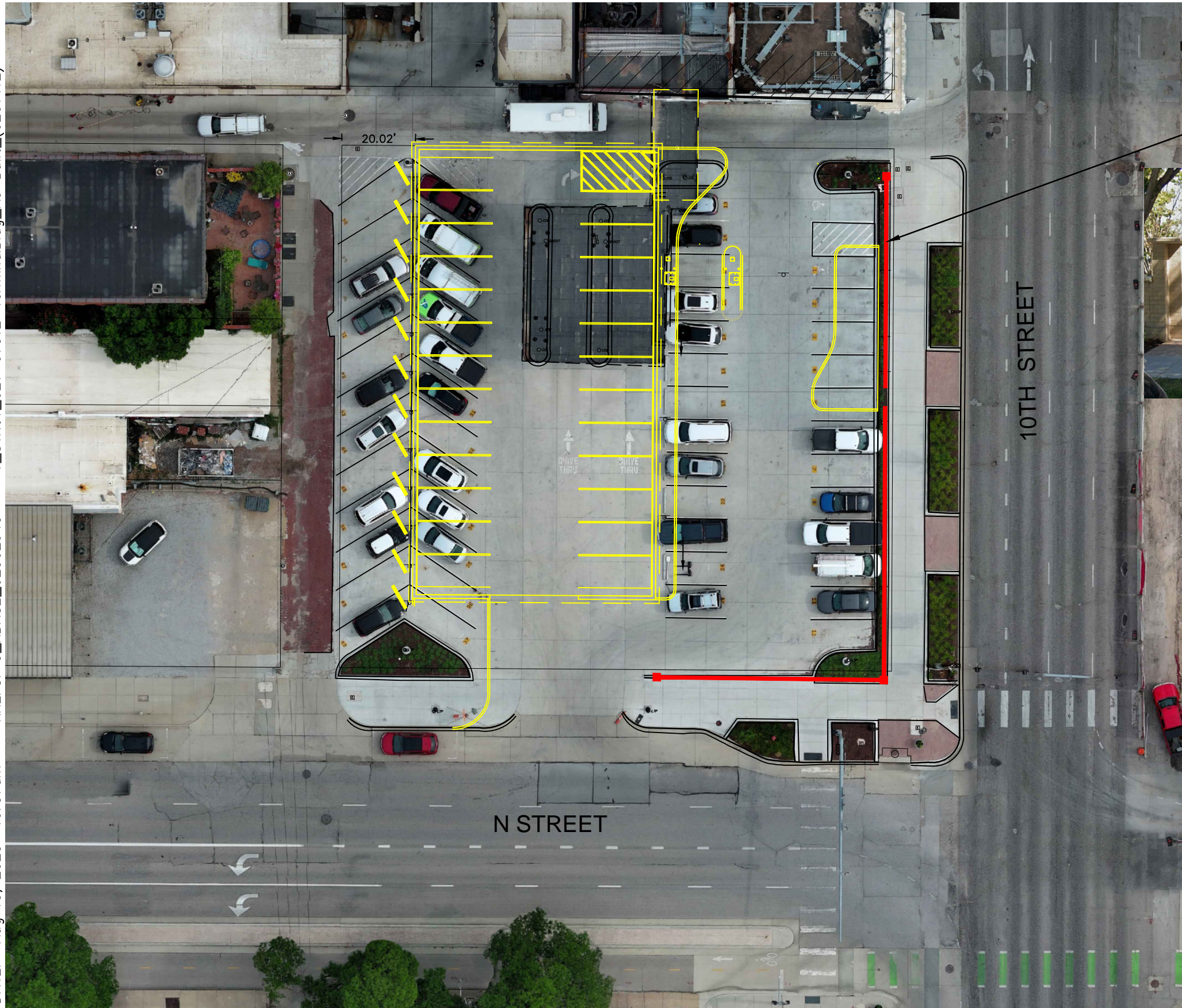


# CONCEPT LAYOUT

Parking Garage / Rev Development / Lincoln, NE  
023-02943 | 04.12.2023



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PROPOSED SCREEN WALL



PROJECT NO:	023-02943
DRAWN BY:	BAL
DATE:	8/15/23

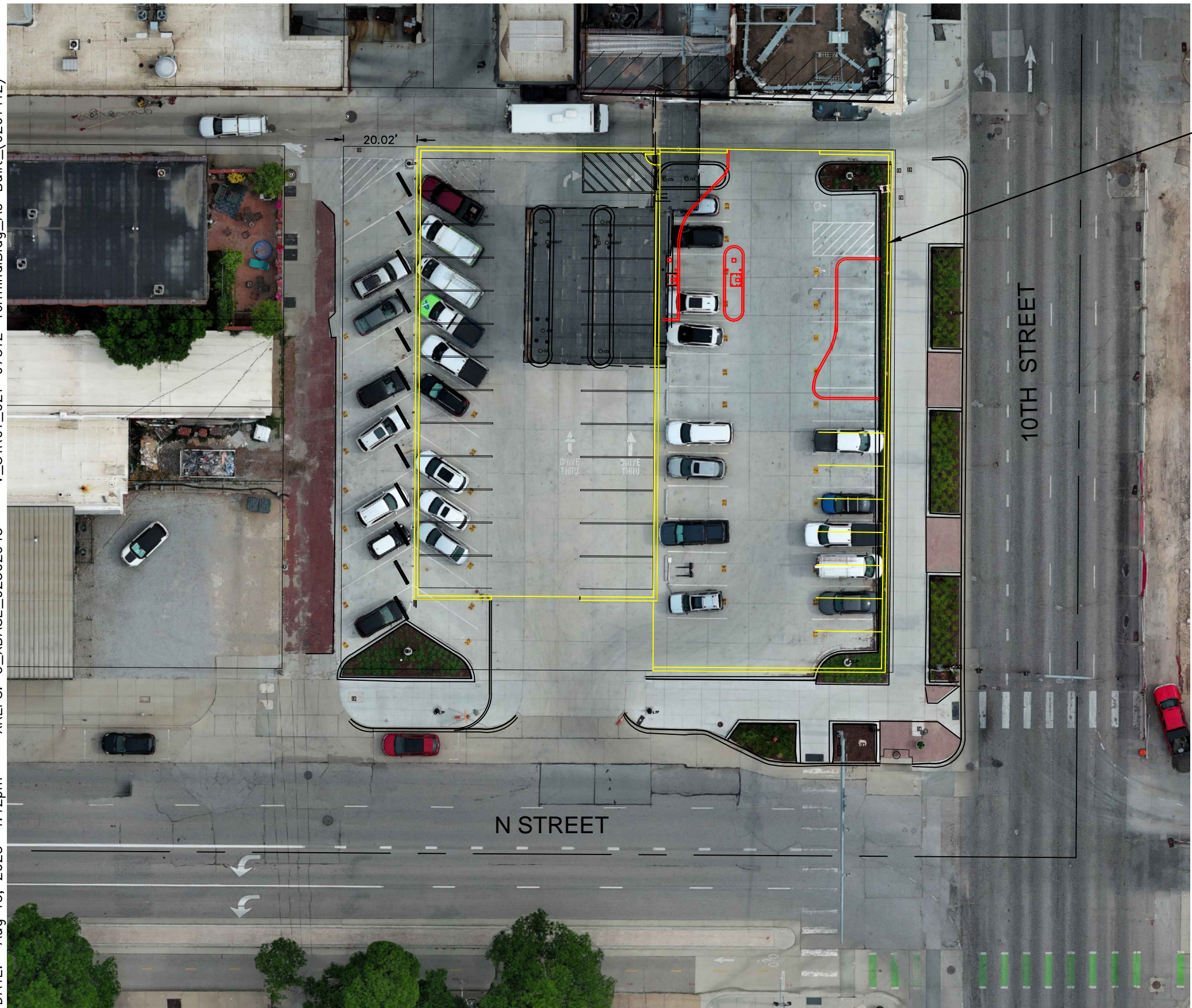
### TERMINAL BUILDING PARKING - OPTION 1

**olsson**  
601 P Street, Suite 200  
P.O. Box 84608  
Lincoln, NE 68508  
TEL 402.474.6311

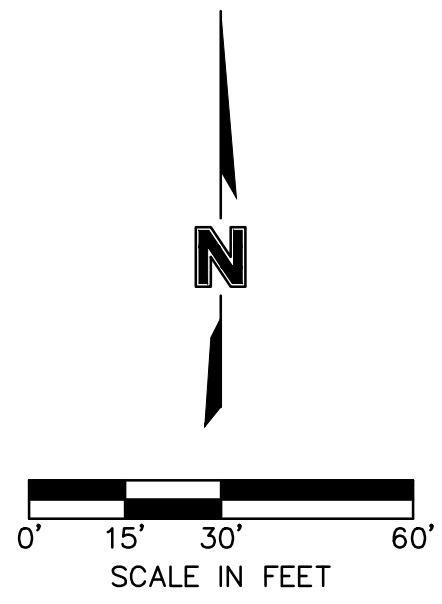
EXHIBIT  
1



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COVERED PARKING STRUCTURE



PROJECT NO:	023-02943
DRAWN BY:	BAL
DATE:	8/15/23

### TERMINAL BUILDING PARKING - OPTION 2

**olsson**  
601 P Street, Suite 200  
P.O. Box 84608  
Lincoln, NE 68508  
TEL 402.474.6311

EXHIBIT  
1

## URBAN DESIGN COMMITTEE STAFF REPORT

APPLICATION NUMBER	Urban Design Record #23111
APPLICATION TYPE	Advisory Review
ADDRESS/LOCATION	S Canopy St.
HEARING DATE	September 5, 2023
ADDITIONAL MEETINGS	-
APPLICANT	Halli Salem, <a href="mailto:HSalem@lincoln.ne.gov">HSalem@lincoln.ne.gov</a>
STAFF CONTACT	Arvind Gopalakrishnan, 402-441-6361, <a href="mailto:agopalakrishnan@lincoln.ne.gov">agopalakrishnan@lincoln.ne.gov</a>

### RECOMMENDATION: APPROVAL

#### Summary of Request

The City of Lincoln and the West Haymarket Joint Public Agency (WHJPA) are partnering to complete one of the final gaps in the Canopy Street streetscape in West Haymarket. The scope of the project addresses improvements to the public streetscape and the BNSF parking lot under the overpass that is owned by the WHJPA. The streetscape portion of the project is designed to continue the existing streetscape pattern already along Canopy Street, including amenities like decorative paving, landscaping, benches, trash receptacles and a new crosswalk. The improvements to the WHJPA parking lot are meant to establish a cleaner, simpler design for the lot and its adjacent sidewalk to the north. Specifically, a curb is being added to the north edge of the parking lot, the river rock is being removed in favor of a widened sidewalk, and the parking lot entry structure is being eliminated. Combined, the improvements will serve to unify the developments to the north and south and present a finished streetscape for visitors to Canopy Street.

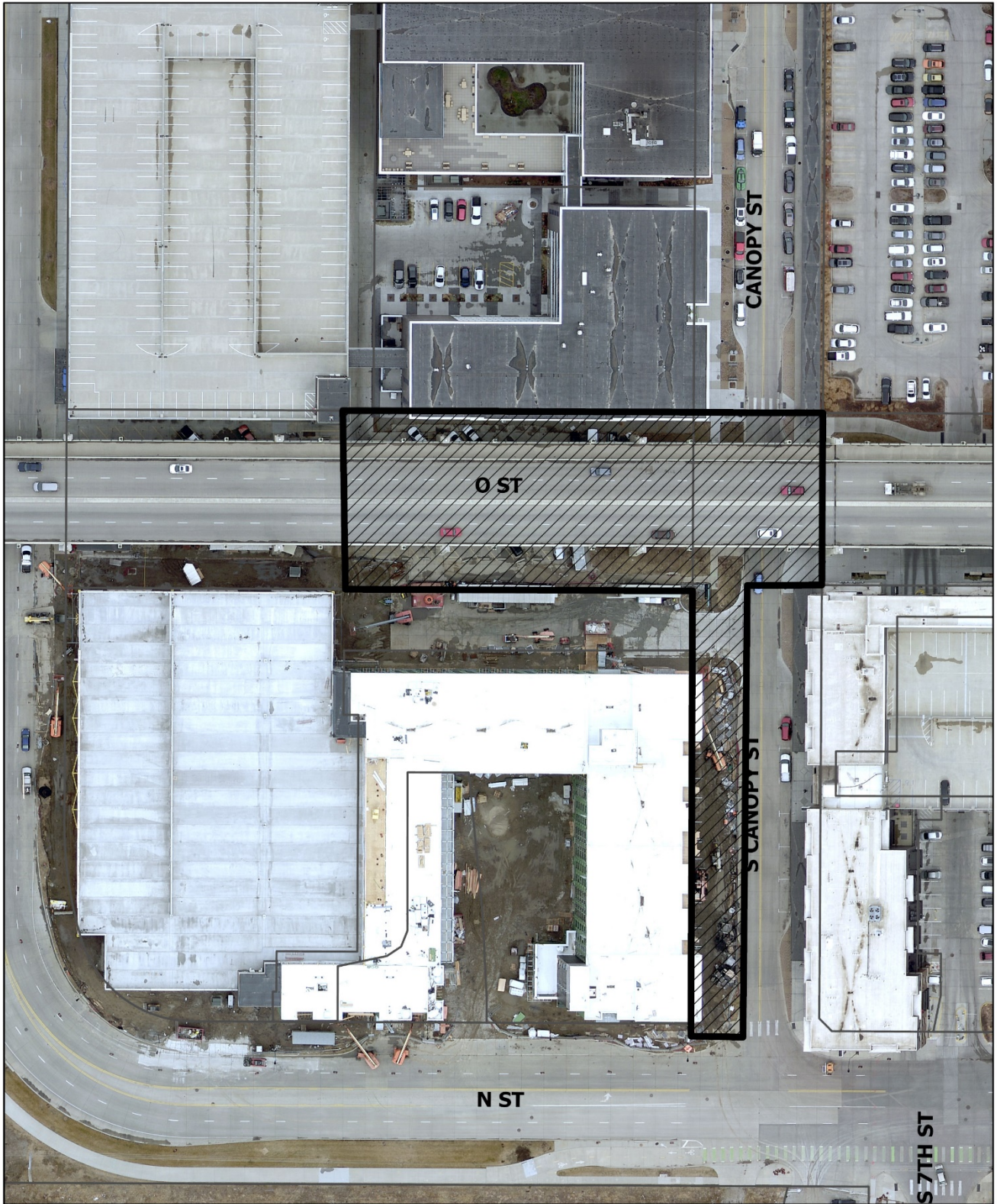
The expectation is that construction for this project would start in early 2024. As a City-led effort, staff is seeking guidance from the Committee as to how the proposed design fits within the context of the existing West Haymarket environment.

#### Staff note:

City staff recommends approval, as this proposal is a continuation of the existing streetscape pattern in the vicinity and the improvements on the WHJPA would have the same material palette as on Canopy Street. Moreover, the proposed additional crosswalk on Canopy Street adds to the pedestrian safety.

Overall, the design concept is in line with the discussions held in fall of 2011 with the Urban Design Committee and the Historic Preservation Commission, ~~that the arena was the core area and~~ At that time, it was understood that the streetscape had to be addressed in phases.

# ATTACHMENT A - Location Map



2022 Aerial

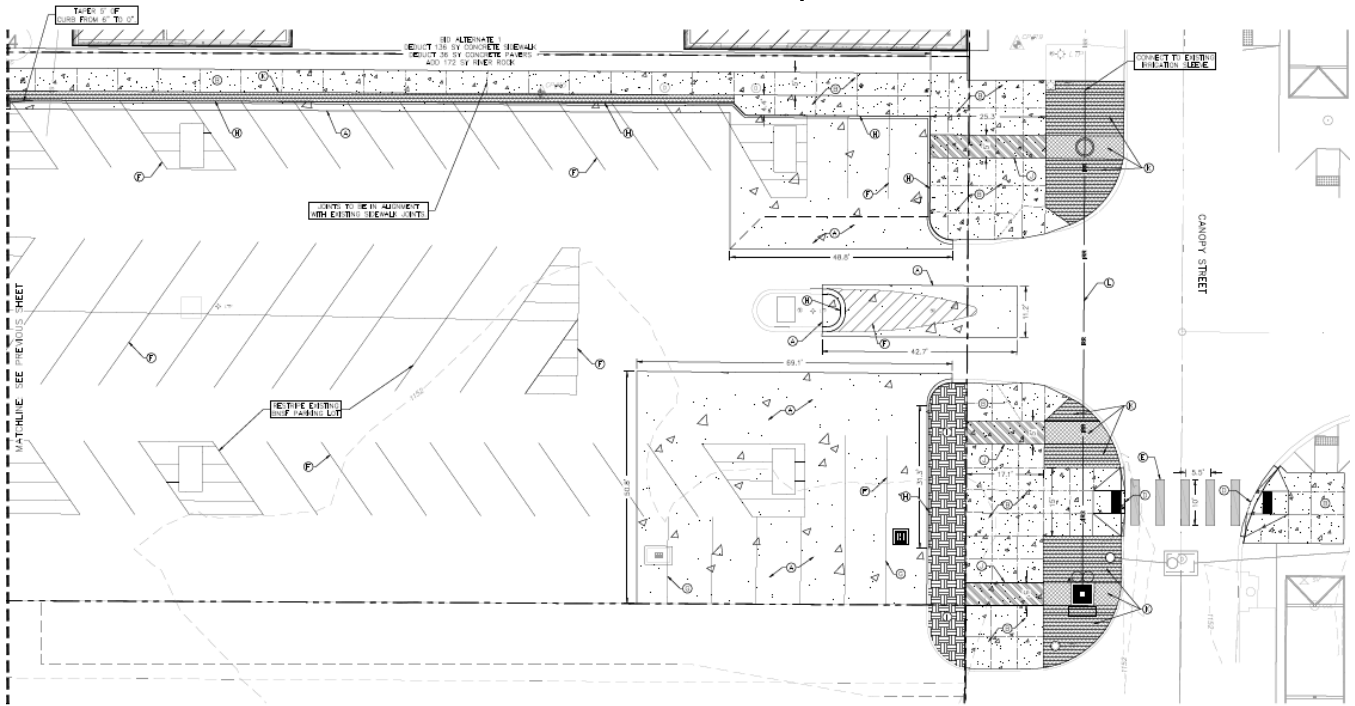


**UDR23111 - S Canopy Street - West Haymarket Streetscape Completion**

Project: GIS\Projects\Dev\Review\UDC\_Location\Maps.aprx  
PDF: \Boards\UDC\REPORTS\Location Maps

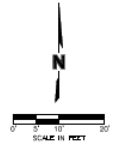
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# ATTACHMENT B – Site plan



NOTES:  
 1. ALL EXISTING PAV. SURGRADE FINISH TOPSOIL AND/OR FINISHED SOIL IS SUBORDINARY TO PAVEMENT, PAVEL AND LANDSCAPING SET BACK.  
 2. SELECTED HARDWARES ARE SHOWN ON THIS SHEET. REFERENCE GEOMETRICS PLAN FOR EXACT LOCATIONS.

SITE KEY NOTES	
	RED PAVT. 8"
	CONC. SIDEWALK, 8"
	NOT USED
	CONCRETE CURB RAMP. REFERENCE CITY STANDARD PLANS. PAVEMENT IS INCLUDED IN CONC. SIDEWALK. SEE ITEM 1. RETAINABLE HARDWARES ARE A SEPARATE SET. SEE
	PAINT MKG. 24" WHITE SPACED 5.0' O.C. REFERENCE CITY STANDARD PLANS
	PAINT MKG. 4" YELLOW
	PAINT MKG. 4" WHITE
	COMBINED CURB AND GUTTER
	INSTALL LANDSCAPING BED. REFERENCE LANDSCAPE PLAN.
	TEXTURED CONCRETE SURFACE. REFERENCE HARDSCAPE PLAN.
	CONCRETE PAVERS. REFERENCE HARDSCAPE PLAN.
	INSTALL 4" SCHEDULE 40 PVC IRRIGATION SLEEVE. CONNECT TO EXISTING SLUDGE BORE UNDERGROUND CROWN MAINLINE TO REPAIR. AND TERMINATE WITH A CAP IN PROPOSED TREE BED.



# ATTACHMENT C – Hardscape Plan

<https://linclanc.sharepoint.com/sites/PlanningDept-Boards/Shared Documents/Boards/UDC/REPORTS/2023/09 Sept/West Haymarket Streetscape staff report.docx>



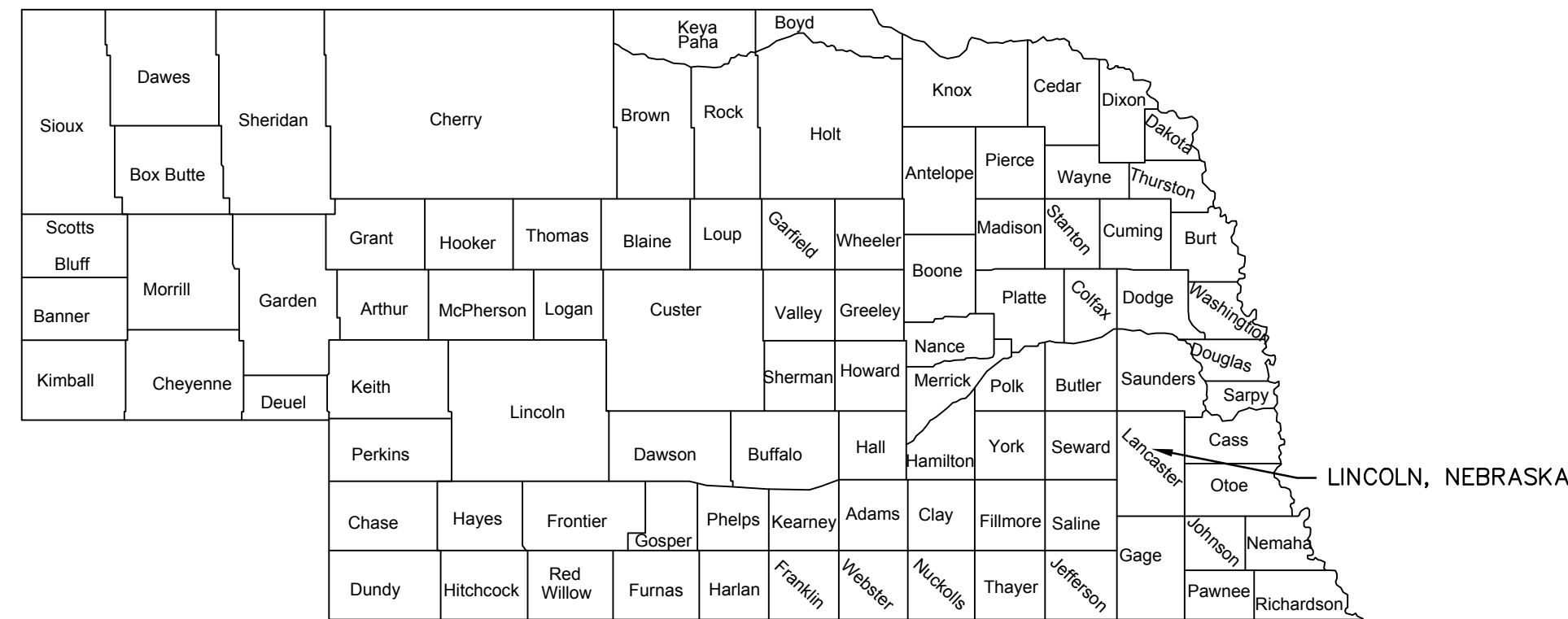
# WEST HAYMARKET STREETScape EXTENSION

## LINCOLN, NEBRASKA

### 2023



LOCATION MAP  
NOT TO SCALE

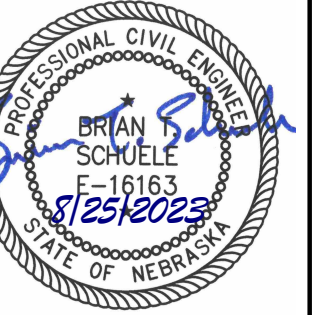


Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES AND DETAILS
3	EXISTING CONDITIONS AND REMOVALS PLAN
4	SITE PLAN
5	SITE PLAN
6	GRADING AND DRAINAGE PLAN
7	GEOMETRICS PLAN
8	GEOMETRICS POINT TABLE
9	HARDSCAPE PLAN
10	HARDSCAPE PLAN
11	HARDSCAPE DETAILS
12	LANDSCAPE PLAN



**olsson**

Engineering - Nebraska COA #CA-0638  
601 P Street, Suite 200  
P.O. Box 84608  
Lincoln, NE 68508  
TEL 402.474.6311 www.olsson.com



REVISIONS DESCRIPTION

DATE

REV. NO.

2023

COVER SHEET

WEST HAYMARKET  
STREETScape EXTENSION

LINCOLN, NEBRASKA

REVISIONS



COORDINATING PROFESSIONAL  
I, BRIAN SCHUELE, AM THE COORDINATING  
PROFESSIONAL FOR THE WEST HAYMARKET  
STREETScape EXTENSION PROJECT.



drawn by: TJC  
checked by: TJC  
approved by: BTS  
QA/QC by: BTS  
project no.: 018-2666  
drawing no.:  
date: 08-25-2023



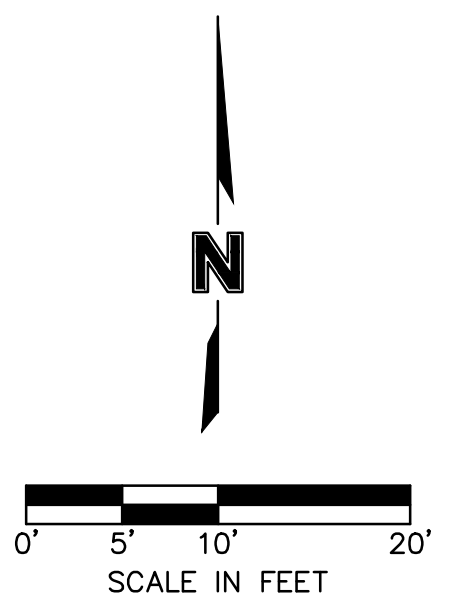
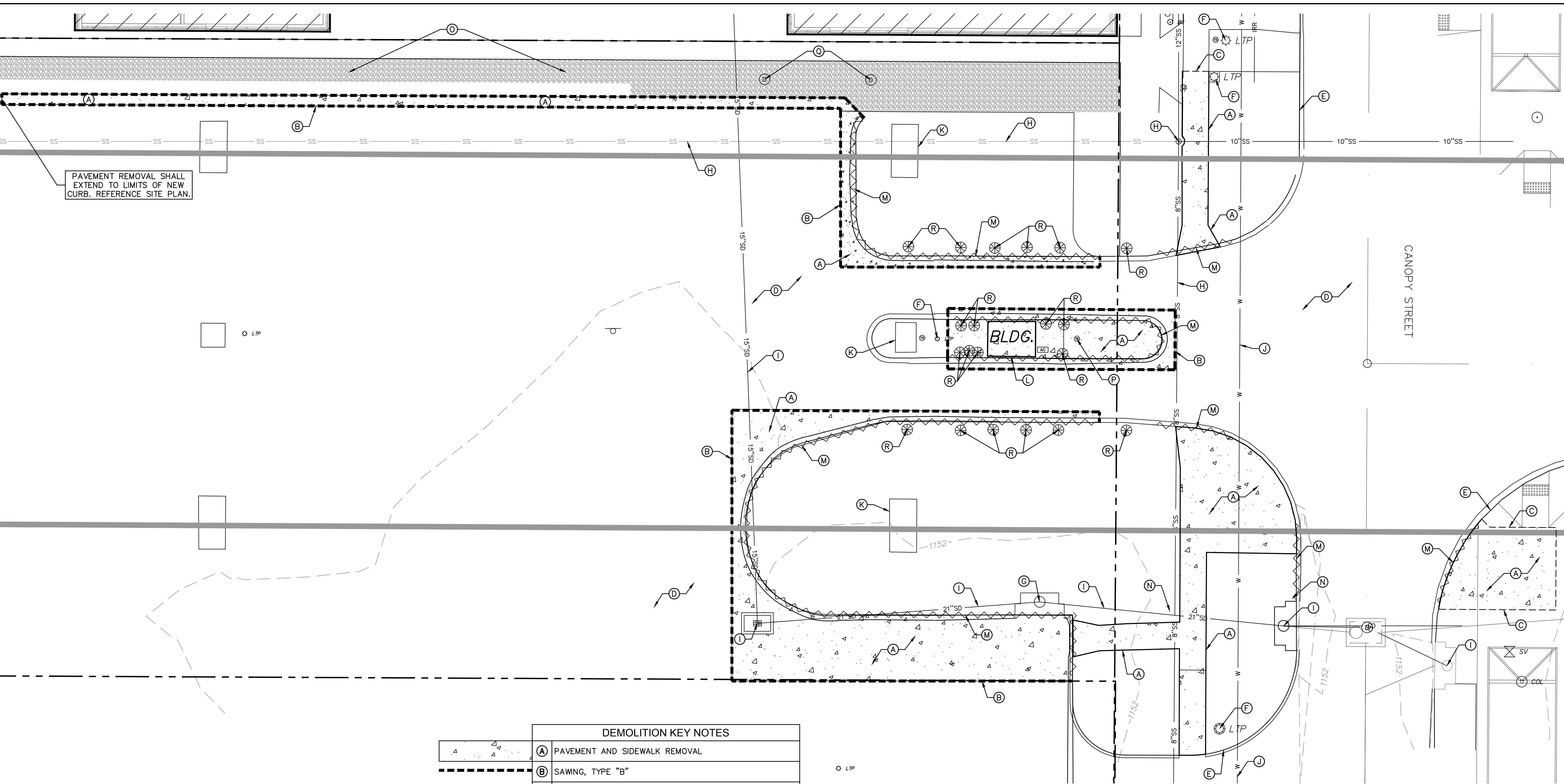
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 USER: tcurtis C\_XBASE\_underpass\_82666



PAVEMENT REMOVAL SHALL EXTEND TO LIMITS OF NEW CURB. REFERENCE SITE PLAN.

DEMOLITION KEY NOTES	
	A PAVEMENT AND SIDEWALK REMOVAL
	B SAWING, TYPE "B"
	C SAWING, TYPE "C"
	D PROTECT PAVEMENT
	E PROTECT CURB AND GUTTER
	F PROTECT LIGHT POLE
	G REMOVE EXISTING INLET
	H PROTECT SANITARY SEWER AND MANHOLE
	I PROTECT STORM SEWER AND INLETS
	J PROTECT WATER MAIN, FIRE HYDRANT AND WATER VALVE
	K PROTECT BRIDGE COLUMN
	L REMOVE SURFACE MOUNTED GUARD SHACK BUILDING
	M REMOVE CURB AND GUTTER. INCLUDED AS PART OF PAVEMENT REMOVAL BID ITEM.
	N ADJUST IRRIGATION CONTROL VALVE TO GRADE
	O REMOVE LANDSCAPING RIVER ROCK
	P ADJUST ELECTRICAL JUNCTION BOX TO GRADE
	Q ADJUST MANHOLES TO GRADE
	R REMOVE BOLLARDS

NOTES:  
 1. REFERENCE SITE PLAN AND GEOMETRICS PLANS FOR DIMENSIONS AND EXACT LIMITS OF REMOVALS.



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 P.O. Box 84608  
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REV. NO.	DATE	REVISIONS DESCRIPTION

EXISTING CONDITIONS AND REMOVALS PLAN  
 WEST HAYMARKET  
 STREETSCAPE EXTENSION  
 LINCOLN, NEBRASKA

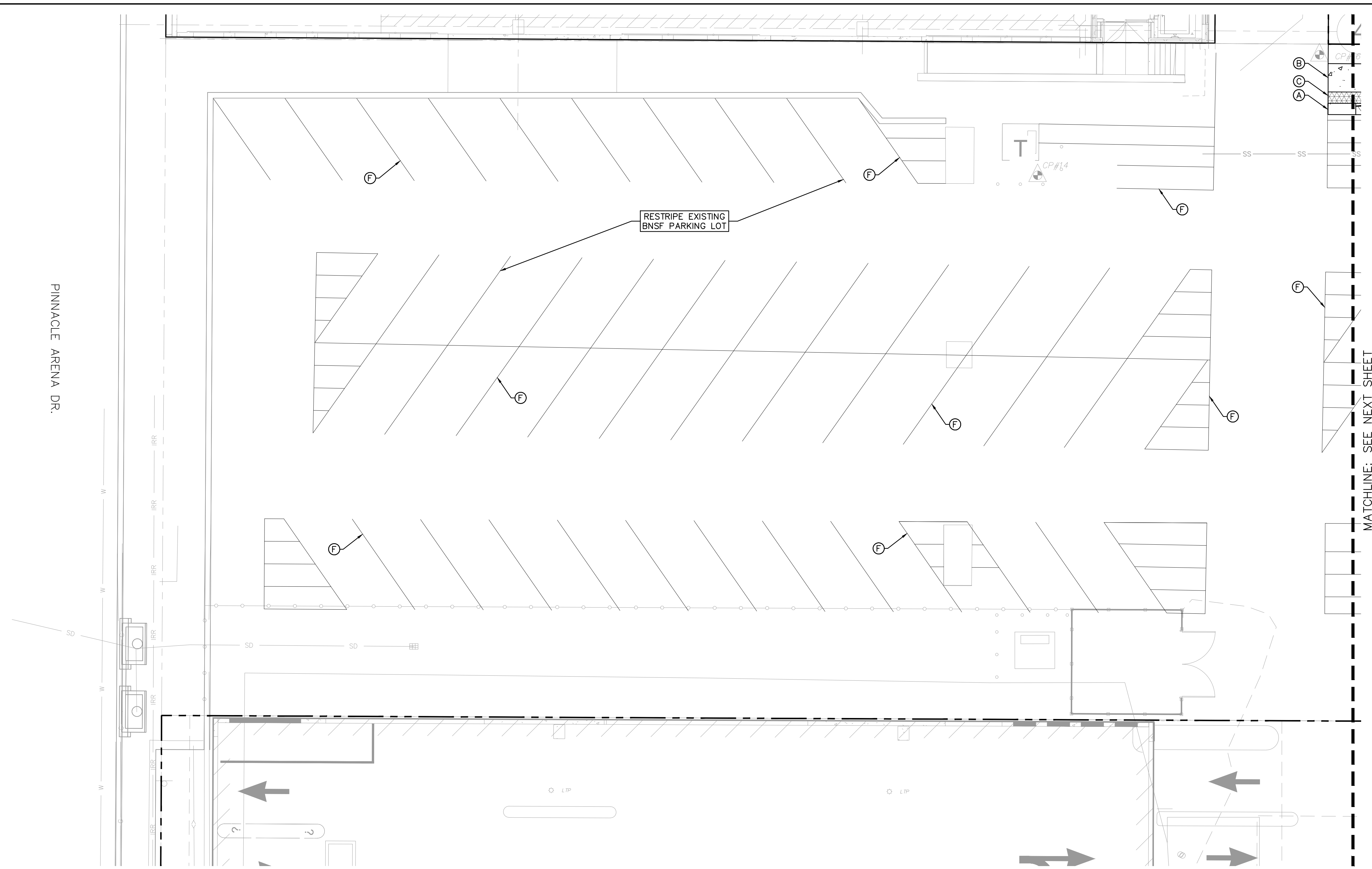
2023

REVISIONS

drawn by: TJC  
 checked by: TJC  
 approved by: BTS  
 QA/QC by: BTS  
 project no.: 018-2666  
 drawing no.:  
 date: 08-25-2023

SHEET  
 3 of 12





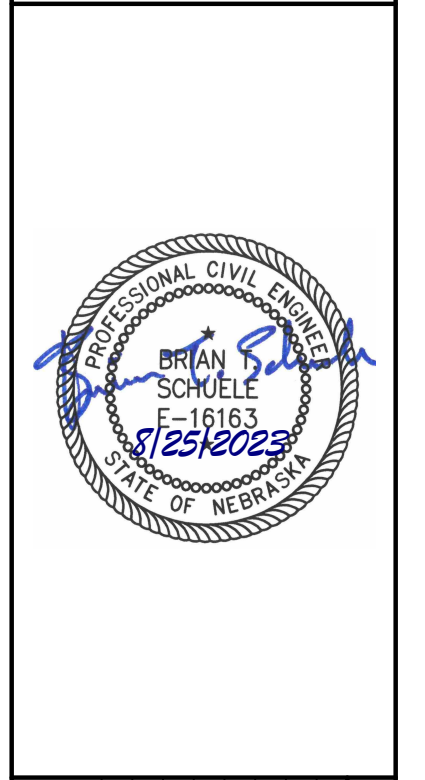
RESTRIPE EXISTING  
BNSF PARKING LOT

MATCHLINE: SEE NEXT SHEET

SITE KEY NOTES

	A PCC PAVT, 8"
	B CONC SIDEWALK, 6"
	C NOT USED
	D CONSTRUCT CURB RAMP. REFERENCE CITY STANDARD PLANS. PAVEMENT IS INCLUDED IN CONC SIDEWALK BID ITEM. DETECTABLE WARNING PANELS ARE A SEPARATE BID ITEM.
	E PAINT MKG, 24" WHITE, SPACED 5.5' O.C. REFERENCE CITY STANDARD PLANS.
	F PAINT MKG, 4" YELLOW
	G PAINT MKG, 4" WHITE
	H COMBINED CURB AND GUTTER
	I INSTALL LANDSCAPING BED. REFERENCE LANDSCAPE PLAN.
	J TEXTURED CONCRETE SURFACE. REFERENCE HARDSCAPE PLAN.
	K CONCRETE PAVERS. REFERENCE HARDSCAPE PLAN.
	L INSTALL 4" SCHEDULE 40 PVC IRRIGATION SLEEVE. CONNECT TO EXISTING SLEEVE, BORE UNDERNEATH EXISTING PAVEMENT TO REMAIN, AND TERMINATE WITH A CAP IN PROPOSED TREE BED.

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 P.O. Box 84608  
 Lincoln, NE 68508  
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REV. NO.	DATE	REVISIONS DESCRIPTION

SITE PLAN  
 WEST HAYMARKET  
 STREETSCAPE EXTENSION  
 LINCOLN, NEBRASKA

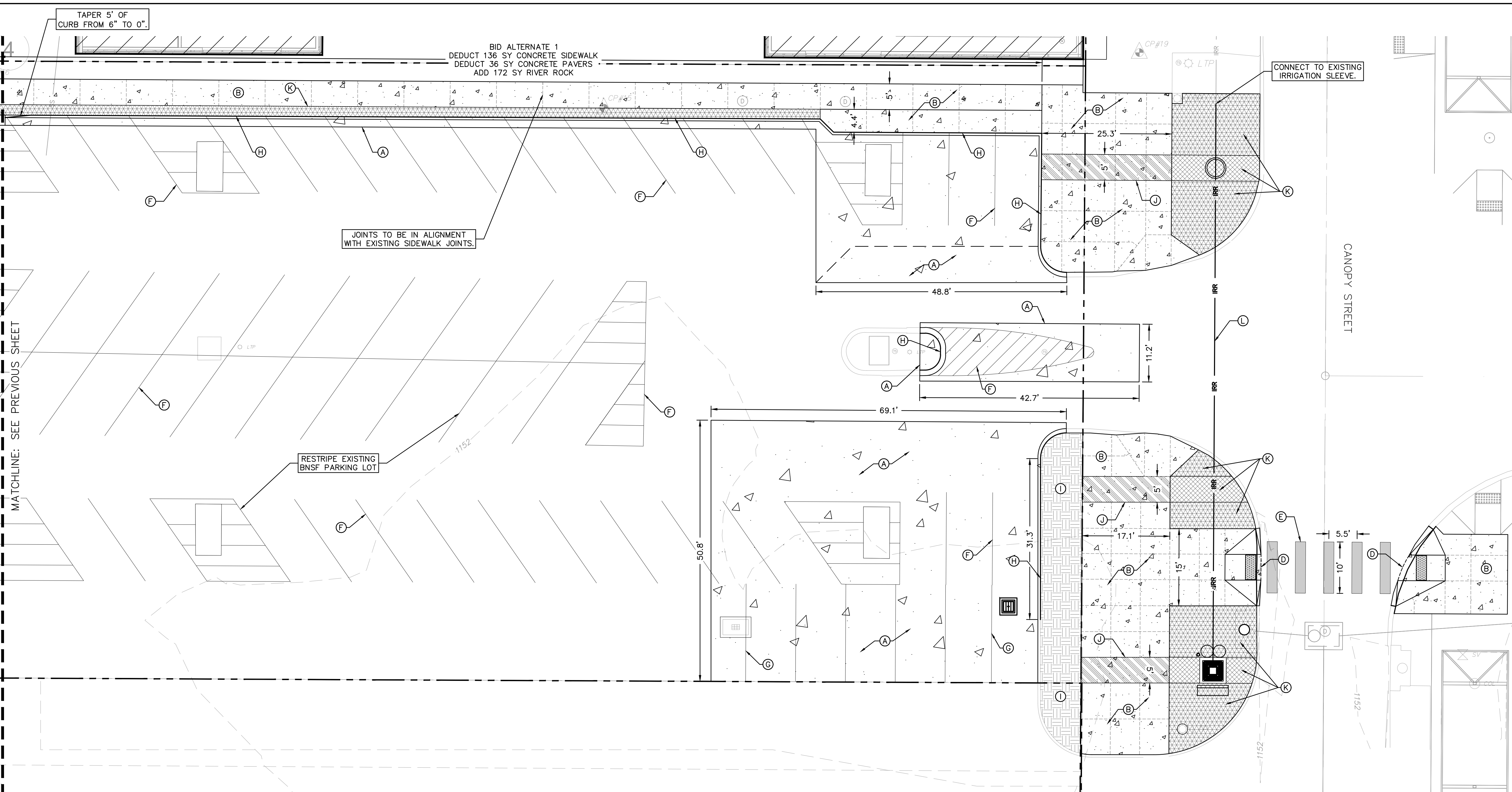
2023

REVISIONS

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SHEET  
 4 of 12

DWG: F:\2018\2501-3000\018-2666\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Underpass Parking\Phase 1 Base Bid\VC\_SIT\_182666.dwg  
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NOTES:  
 1. ALL EARTHWORK, FILL, SUBGRADE PREP, TOPSOIL, AND/OR AMENDED SOIL IS SUBSIDIARY TO PAVEMENT, PAVER, AND LANDSCAPING BID ITEMS.  
 2. SELECTED DIMENSIONS ARE SHOWN ON THIS SHEET. REFERENCE GEOMETRICS PLAN FOR EXACT LOCATIONS.

SITE KEY NOTES	
	(A) PCC PAVT, 8"
	(B) CONC SIDEWALK, 6"
	(C) NOT USED
	(D) CONSTRUCT CURB RAMP. REFERENCE CITY STANDARD PLANS. PAVEMENT IS INCLUDED IN CONC SIDEWALK BID ITEM. DETECTABLE WARNING PANELS ARE A SEPARATE BID ITEM.
	(E) PAINT MKG, 24" WHITE, SPACED 5.5' O.C. REFERENCE CITY STANDARD PLANS.
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	(I) INSTALL LANDSCAPING BED. REFERENCE LANDSCAPE PLAN.
	(J) TEXTURED CONCRETE SURFACE. REFERENCE HARDSCAPE PLAN.
	(K) CONCRETE PAVERS. REFERENCE HARDSCAPE PLAN.
	(L) INSTALL 4" SCHEDULE 40 PVC IRRIGATION SLEEVE. CONNECT TO EXISTING SLEEVE, BORE UNDERNEATH EXISTING PAVEMENT TO REMAIN, AND TERMINATE WITH A CAP IN PROPOSED TREE BED.



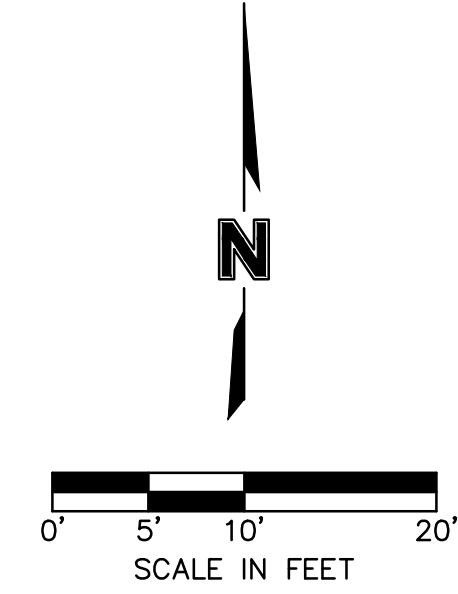
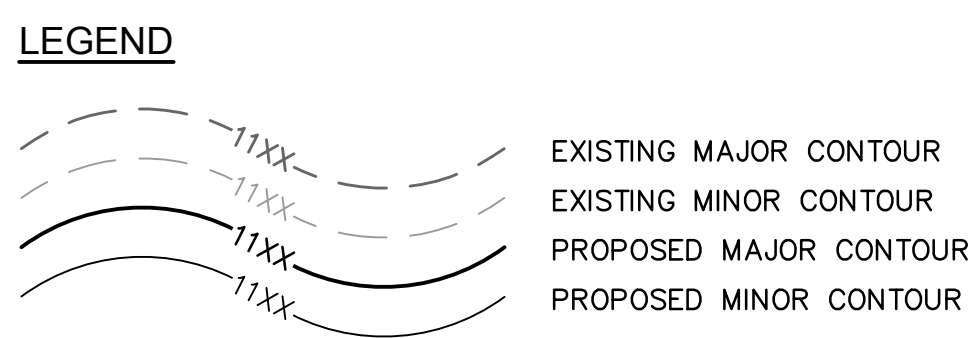
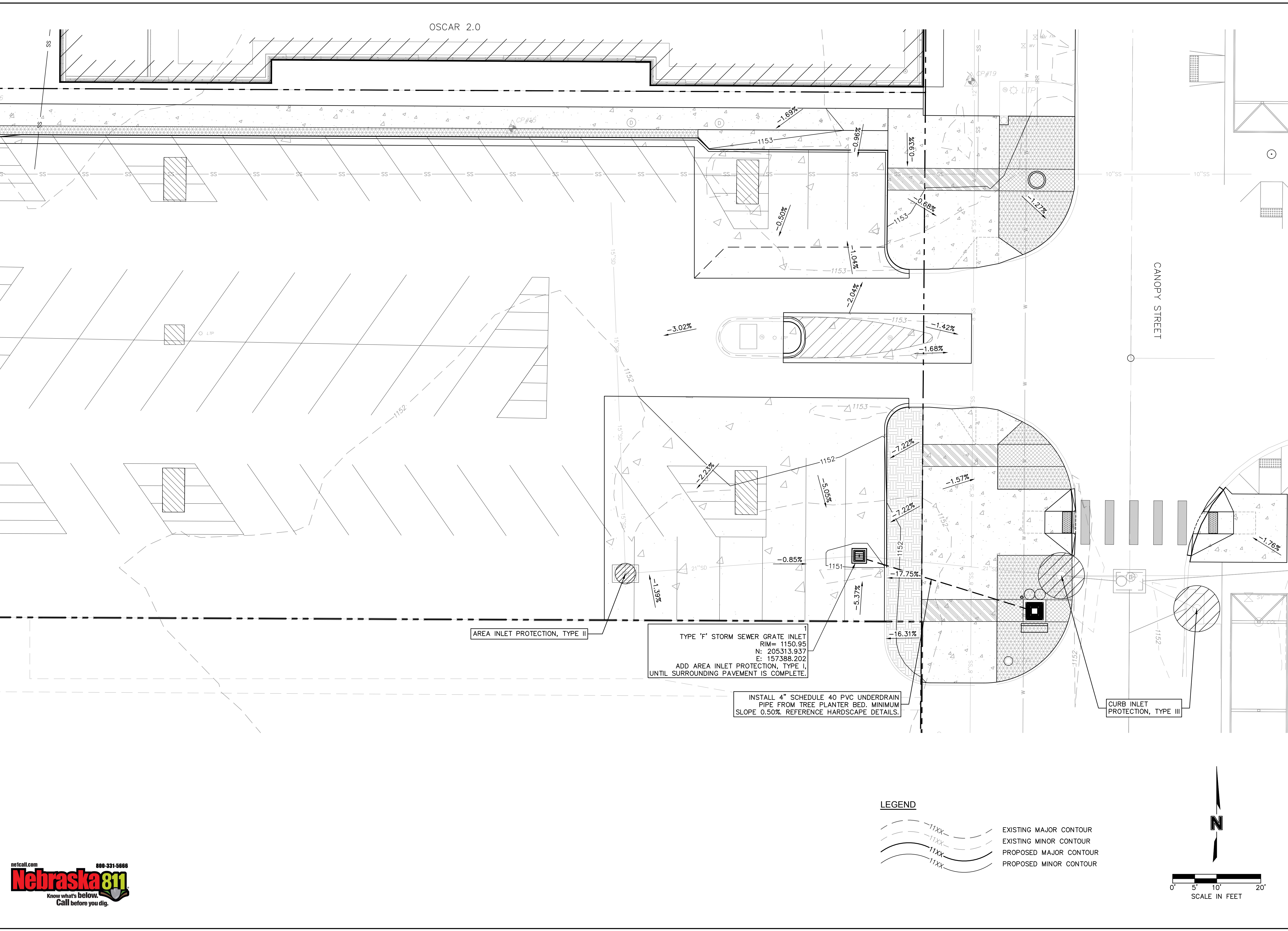
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REV. NO.	DATE	REVISIONS DESCRIPTION

SITE PLAN  
 WEST HAYMARKET  
 STREETSCAPE EXTENSION  
 LINCOLN, NEBRASKA  
 2023  
 drawn by: TJC  
 checked by: TJC  
 approved by: BTS  
 QA/QC by: BTS  
 project no.: 018-2666  
 drawing no.:  
 date: 08-25-2023  
 SHEET  
 5 of 12

DWG: F:\2018\2501-3000\018-2666\40-Design\AutoCAD\Final Plans\Underpass Parking\Phase 1 Base Bid\VC\_UTIL\_182666.dwg  
 DATE: Aug 25, 2023 3:27pm XREFS: C\_PBASE\_TEMP\_underpass\_82666 FloorPlan-FPL\_1-8\_New - ca C\_PBASE\_60172 C\_PBASE\_0200642 C\_BLDG\_0200642 C\_PBASE\_underpass\_0200642 L\_PBASE\_O-St\_82666 USER: tcourtis c\_r4-partial



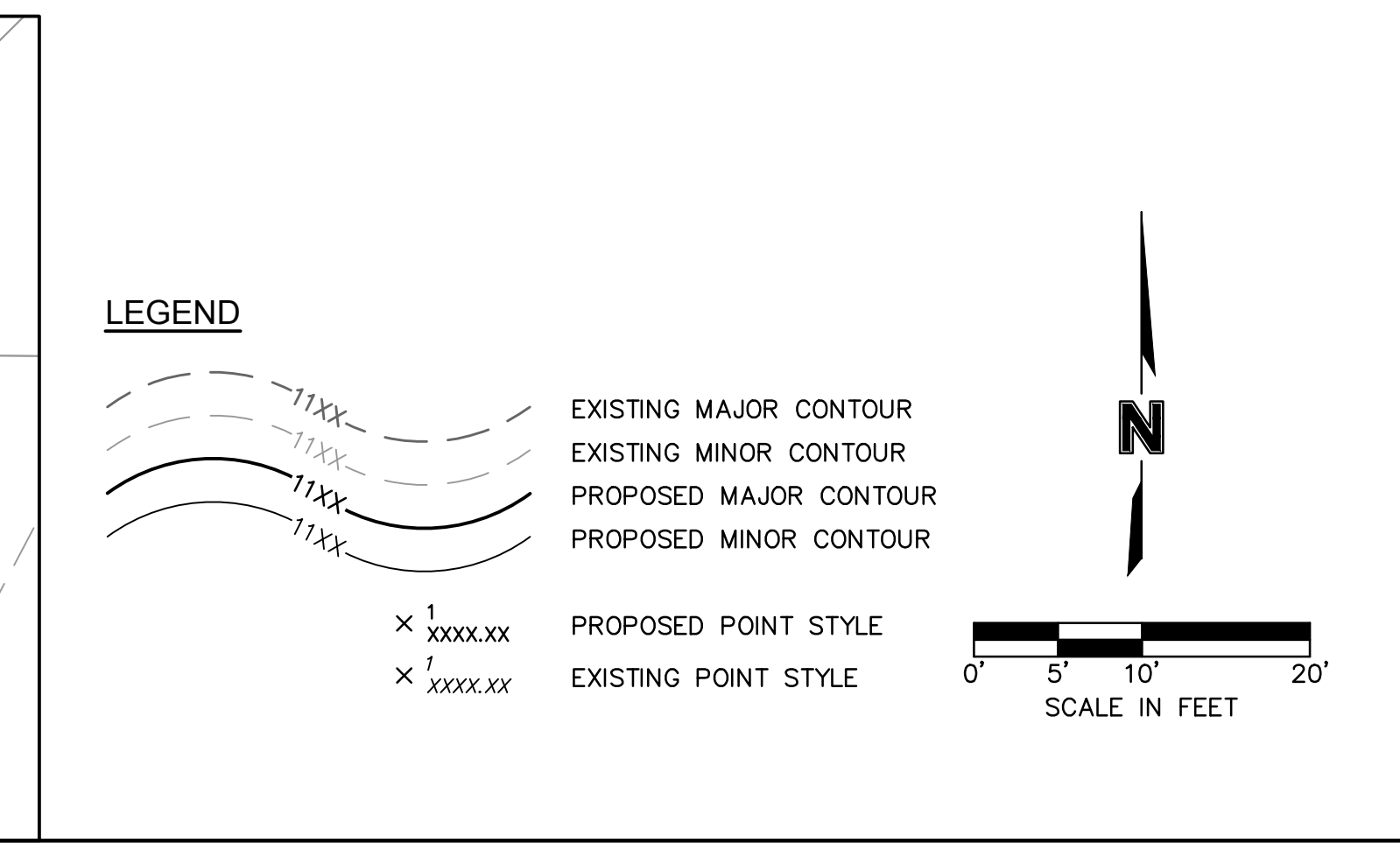
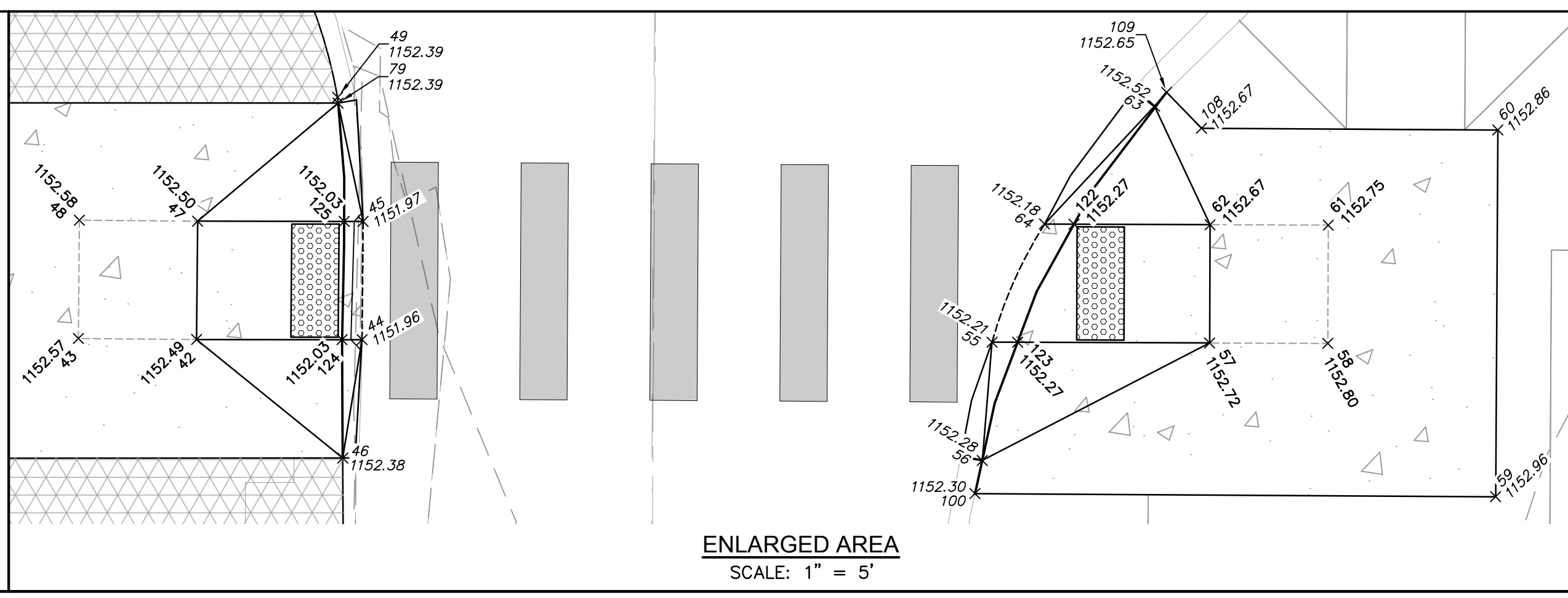
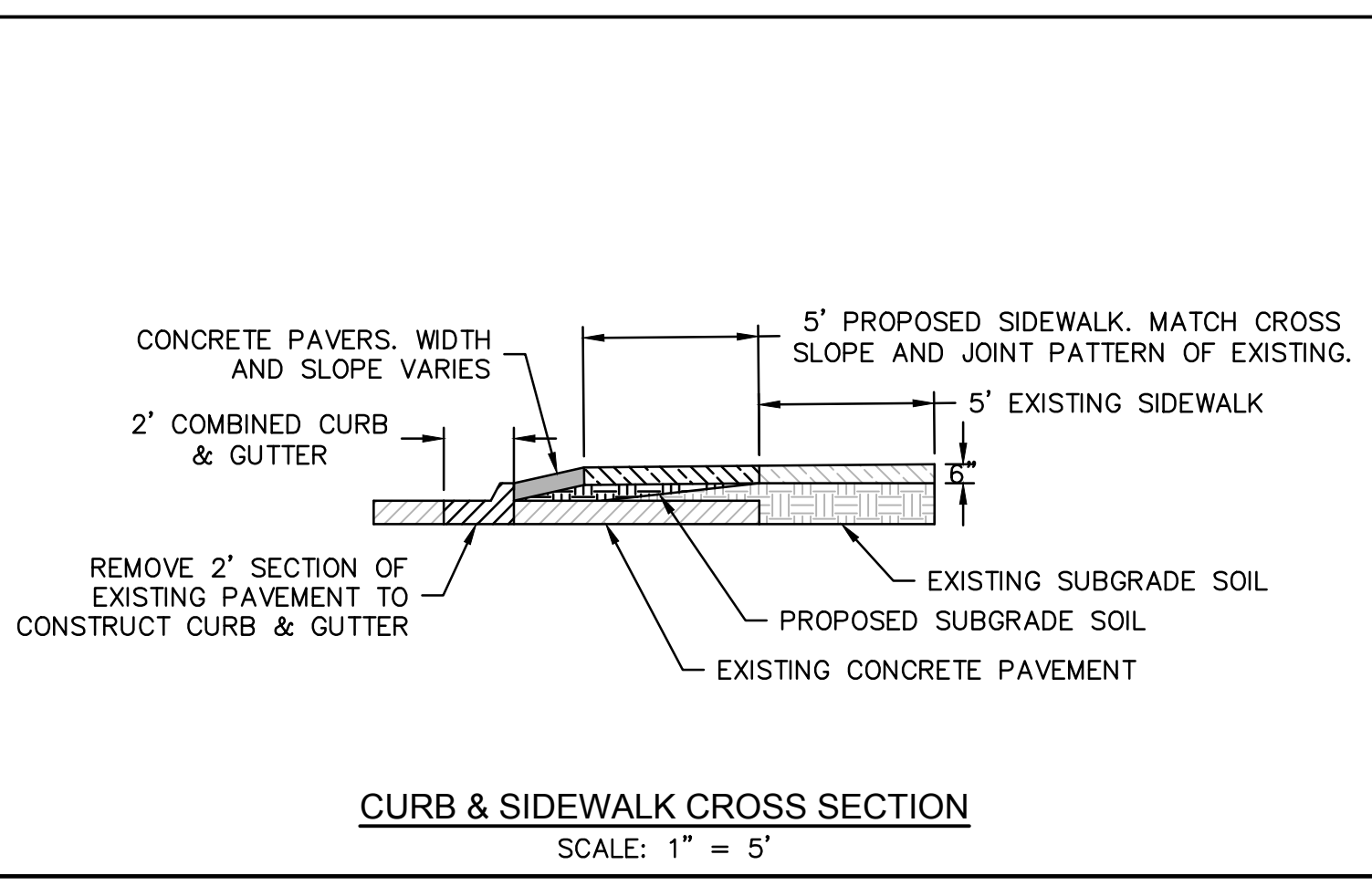
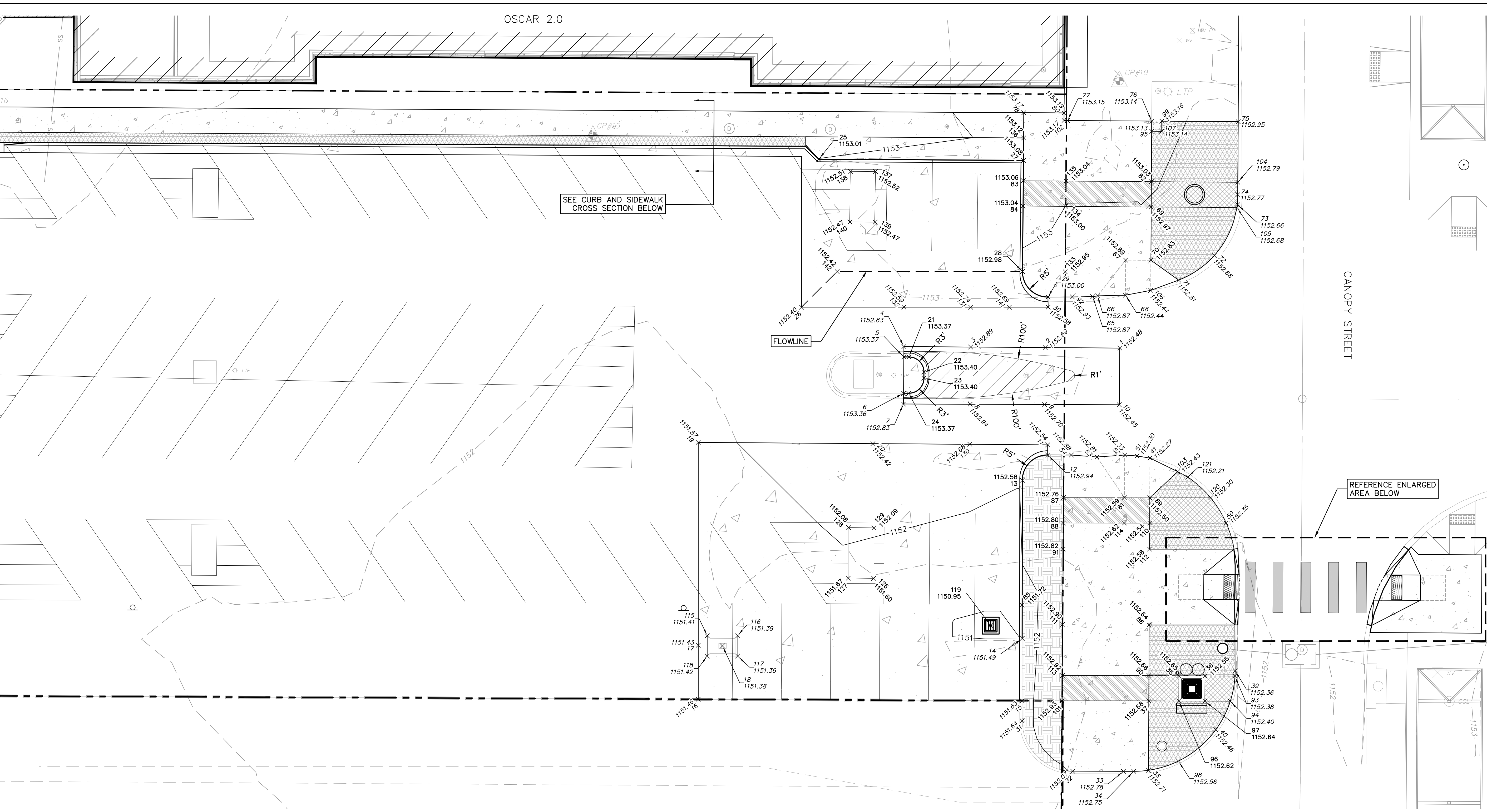
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REV. NO.	DATE	REVISIONS DESCRIPTION

GRADING AND DRAINAGE PLAN		2023
WEST HAYMARKET STREETSCAPE EXTENSION		
LINCOLN, NEBRASKA		
drawn by:	TJC	
checked by:	TJC	
approved by:	BTS	
QA/QC by:	BTS	
project no.:	018-2666	
drawing no.:		
date:	08-25-2023	

DWG: F:\2018\2501-3000\018-2666\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Underpass\Phase 1 Base Bid\VC\_GRD\_182666.dwg  
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 Lincoln, NE 68508  
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REV. NO.	DATE	REVISIONS DESCRIPTION

GEOMETRICS PLAN  
 WEST HAYMARKET  
 STREETSCAPE EXTENSION

2023

REVISIONS

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 checked by: TJC  
 approved by: BTS  
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**SHEET**  
7 of 12

POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION
1	205368.8504	157413.7106	1152.484	TS/ME
2	205368.9548	157398.9635	1152.689	TS/ME
3	205369.0592	157384.2164	1152.894	TS/ME
4	205369.1526	157371.0214	1152.826	TS/ME
5	205367.0914	157371.0069	1153.368	TC/ME
6	205359.9132	157370.9560	1153.363	TC/ME
7	205357.7787	157370.9409	1152.830	TS/ME
8	205357.7313	157384.1222	1152.939	TS/ME
9	205357.6783	157398.8763	1152.697	TS/ME
10	205357.6253	157413.6304	1152.449	TS/ME
11	205349.6952	157399.4562	1152.542	TS/ME
12	205347.6905	157399.4543	1152.940	TC/ME
13	205342.6952	157394.4496	1152.580	TC
14	205311.3870	157394.4197	1151.486	TC/ME
15	205299.0601	157394.4080	1151.629	TC/ME
16	205299.3636	157330.3464	1151.459	TS/ME
17	205310.0273	157330.3464	1151.427	TS/ME
18	205309.9120	157335.1440	1151.378	INLET/ME
19	205350.1748	157330.3464	1151.867	TS/ME
20	205349.9350	157364.8980	1152.423	TS/ME
21	205367.0859	157372.0023	1153.373	TC
22	205364.0647	157374.9855	1153.397	TC
23	205362.8889	157374.9772	1153.397	TC
24	205359.9101	157371.9682	1153.369	TC
25	205406.2038	157354.1957	1153.014	TC
26	205376.9422	157350.7671	1152.398	TS/ME
27	205405.9876	157394.6809	1153.080	TC
28	205383.9864	157394.4837	1152.979	TC
29	205378.9417	157399.5139	1152.997	TC/ME
30	205376.9422	157399.5595	1152.584	TS/ME
31	205295.0754	157394.4288	1151.639	TC/ME
32	205285.1278	157404.4028	1152.074	TC/ME
33	205285.1018	157414.4291	1152.776	SW/ME
34	205285.0965	157416.4792	1152.748	SW/ME
35	205304.0224	157425.4087	1152.653	SW
36	205303.9926	157430.5698	1152.547	SW
37	205299.0565	157419.4665	1152.676	SW
38	205285.3038	157419.4042	1152.711	SW/ME
39	205305.0077	157436.5309	1152.357	TC/ME
40	205293.3436	157432.7135	1152.458	TC/ME
41	205347.0870	157419.6931	1152.268	TS/ME
42	205319.0728	157430.3025	1152.490	SW
43	205319.1167	157425.3027	1152.570	SW
44	205319.0640	157437.3024	1151.965	TS/ME
45	205324.0646	157437.3463	1151.972	TS/ME
46	205314.0640	157436.4860	1152.385	TC/ME
47	205324.0734	157430.3464	1152.497	SW

POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION
48	205324.1173	157425.3466	1152.580	SW
49	205329.3140	157436.2700	1152.390	TC/ME
50	205334.2138	157434.7512	1152.351	TC/ME
51	205347.5013	157417.1362	1152.304	TS/ME
52	205347.6877	157414.6959	1152.333	TS/ME
53	205347.2894	157409.1940	1152.807	TC/ME
54	205347.6860	157404.1460	1152.885	TC/ME
55	205318.9615	157463.9478	1152.215	TS/ME
56	205313.9631	157463.5352	1152.280	TC/ME
57	205318.9260	157473.1514	1152.721	SW
58	205318.9067	157478.1514	1152.796	SW
59	205312.4291	157485.2499	1152.963	SW/ME
60	205327.9289	157485.3424	1152.856	SW/ME
61	205323.9066	157478.1707	1152.746	SW
62	205323.9259	157473.1707	1152.671	SW
63	205328.9350	157470.8253	1152.521	TC/ME
64	205323.9530	157466.1708	1152.181	TC/ME
65	205379.0212	157408.3701	1152.868	TC/ME
66	205379.1788	157409.3366	1152.872	TC/ME
67	205386.2512	157414.8764	1152.894	SW
68	205379.3111	157414.8374	1152.443	TS/ME
69	205396.7592	157419.9356	1152.968	SW
70	205386.2231	157419.8763	1152.828	SW
71	205382.3036	157425.3544	1152.811	TC/ME
72	205387.1710	157432.4070	1152.675	TC/ME
73	205397.2010	157437.0429	1152.656	TC/ME
74	205399.1698	157437.0265	1152.768	TC/ME
75	205413.6536	157437.1379	1152.945	TC/ME
76	205413.7589	157420.0311	1153.138	SW/ME
77	205413.8867	157403.3877	1153.153	SW/ME
78	205415.4266	157394.7337	1153.169	SW/ME
79	205329.0646	157436.2903	1152.391	TC/ME
80	205415.3819	157402.7088	1153.190	SW/ME
81	205339.2226	157414.6549	1152.587	SW
82	205401.7708	157419.9596	1153.035	SW
83	205401.9474	157394.6447	1153.061	TC
84	205396.9476	157394.5999	1153.038	TC
85	205318.0073	157394.4260	1151.718	TC
86	205314.0566	157419.5345	1152.639	SW
87	205339.3135	157402.6129	1152.762	SW
88	205334.2278	157402.5745	1152.799	SW
89	205339.2204	157419.6549	1152.504	SW
90	205304.0566	157419.4891	1152.664	SW
91	205329.0792	157402.5360	1152.824	SW
92	205378.9710	157404.3440	1152.929	TC/ME
93	205303.9585	157436.4724	1152.380	TC/ME
94	205298.9636	157435.5676	1152.400	TC/ME

POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION
95	205411.7590	157420.0199	1153.128	SW/ME
96	205299.0224	157425.3855	1152.624	SW
97	205298.9926	157430.5436	1152.636	SW
98	205287.1358	157425.3297	1152.558	TC/ME
99	205413.7466	157422.0311	1153.164	SW/ME
100	205312.5606	157463.2289	1152.295	TC/ME
101	205299.0490	157402.3125	1152.934	SW
102	205413.8834	157402.6998	1153.168	SW/ME
103	205344.3980	157425.1801	1152.427	TC/ME
104	205401.6515	157437.0686	1152.787	TC/ME
105	205396.6525	157436.9082	1152.682	TC/ME
106	205380.2709	157419.8429	1152.441	TS/ME
107	205411.7466	157422.0199	1153.141	SW/ME
108	205328.0037	157472.8102	1152.672	SW/ME
109	205329.5220	157471.3320	1152.646	TC/ME
110	205334.2204	157419.6307	1152.543	SW
111	205314.1857	157402.4232	1152.896	SW
112	205329.0719	157419.6057	1152.583	SW
113	205304.0490	157402.3467	1152.921	SW
114	205334.2226	157414.6306	1152.618	SW
115	205311.9170	157332.1473	1151.411	TS/ME
116	205311.9070	157338.1473	1151.394	TS/ME
117	205307.9070	157338.1407	1151.362	TS/ME
118	205307.9170	157332.1407	1151.421	TS/ME
119	205313.9371	157388.2018	1150.950	INLET
120	205339.2151	157431.6822	1152.300	TC/ME
121	205343.3157	157427.1733	1152.207	TC/ME
122	205323.9482	157467.4144	1152.268	TC/SW
123	205318.9573	157465.0321	1152.275	TC/SW
124	205319.0651	157436.4554	1152.028	TC/SW
125	205324.0656	157436.5442	1152.032	TC/SW
126	205323.2872	157365.0369	1151.603	TS/ME
127	205323.3197	157360.0370	1151.669	TS/ME
128	205333.3195	157360.1021	1152.076	TS/ME
129	205333.2869	157365.1020	1152.090	TS/ME
130	205349.8020	157384.0672	1152.678	TS/ME
131	205376.9422	157384.2164	1152.741	TS/ME
132	205376.9422	157371.0214	1152.590	TS/ME
133	205383.9225	157402.9496	1152.955	SW
134	205396.8848	157403.0474	1153.000	SW
135	205401.8885	157403.0852	1153.041	SW
136	205410.4267	157394.7057	1153.119	SW
137	205403.7760	157365.4178	1152.521	TS/ME
138	205403.8098	157360.4208	1152.513	TS/ME
139	205393.7775	157365.3556	1152.475	TS/ME
140	205393.8100	157360.3558	1152.466	TS/ME
141	205376.9422	157391.8880	1152.686	TS/ME

**POINT TABLE LEGEND**  
 INLET = MATCH EXISTING  
 SW = SIDEWALK  
 TC = TOP OF CURB  
 TS = TOP OF SLAB



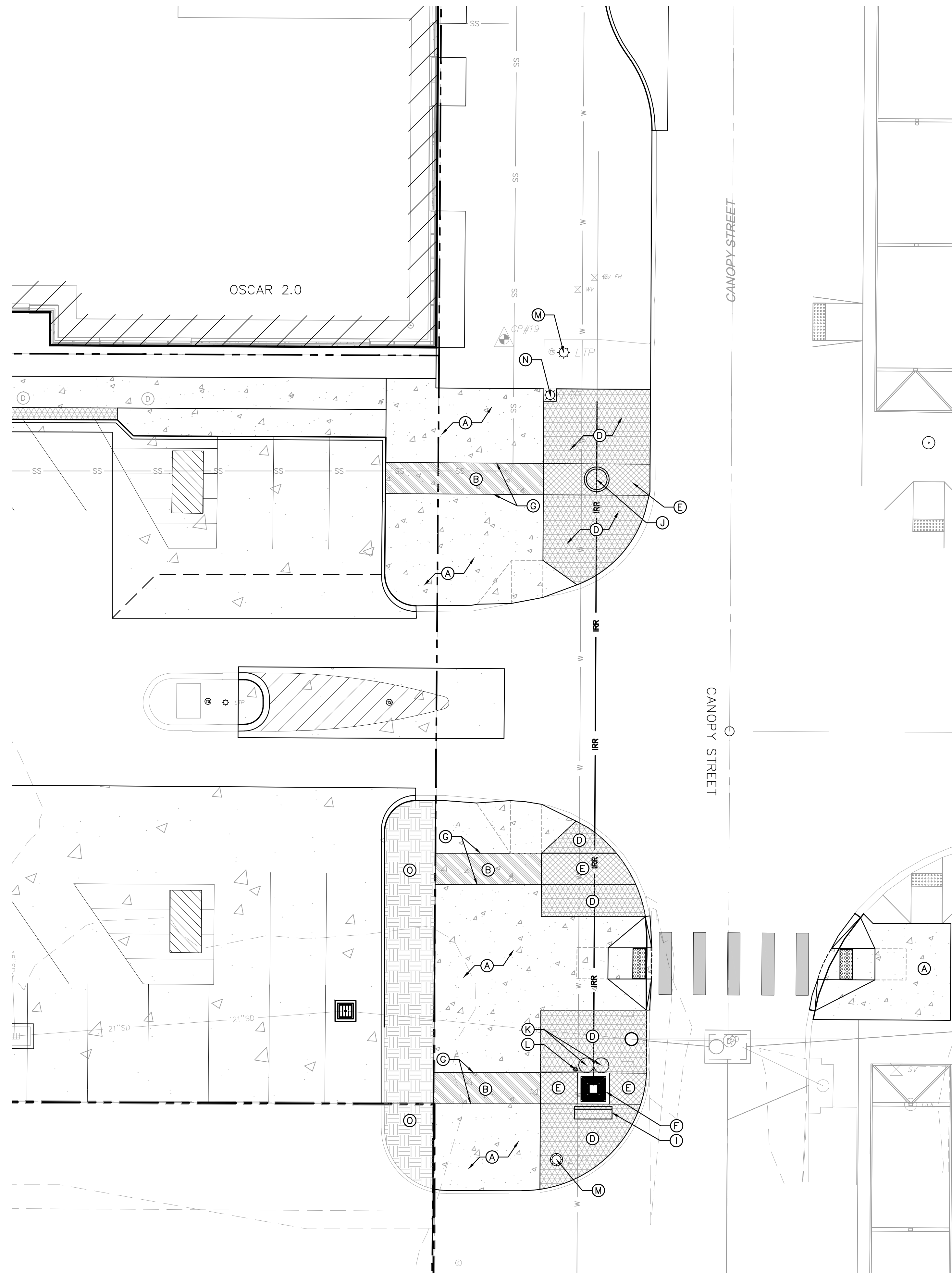
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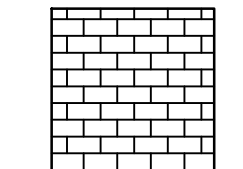
REV. NO.	DATE	REVISIONS DESCRIPTION

**GEOMETRICS POINT TABLE**  
 WEST HAYMARKET  
 STREETSCAPE EXTENSION  
 LINCOLN, NEBRASKA

drawn by: TJC  
 checked by: TJC  
 approved by: BTS  
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TYPICAL UNIT PAVER PATTERNS



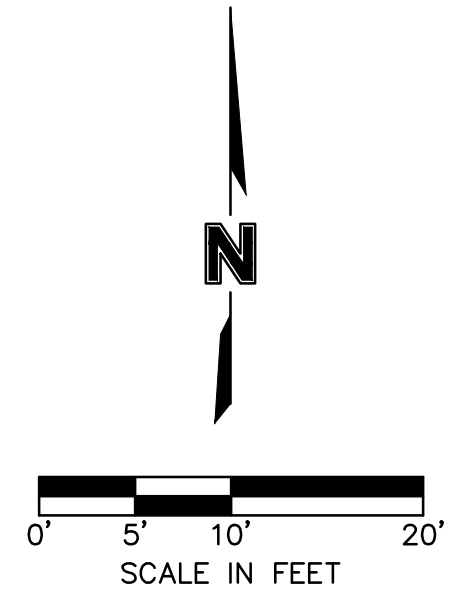
RUNNING BOND

HARDSCAPE LEGEND

- RIGHT OF WAY / PROPERTY LINE
- 6" CONCRETE SIDEWALK
- 6" TEXTURED GRAY CONCRETE PAVING (P-201)
- CONCRETE PAVERS - PAVESTONE - HOLLAND - 4"X8" - 40% BROWN SANDSTONE, 40% TERRA COTTA, & 20% SANDSTONE BLEND; 2.375" THICKNESS; RUNNING BOND (P-301)
- CONCRETE PAVERS - PAVESTONE - HOLLAND - 4"X8" - SANDSTONE; 2.375" THICKNESS; RUNNING BOND (P-302)
- TREE GRATE - IRONSMITH - 48" ADA, 1/2" MAX. SLOT OPENING - CAST IRON SUB-SURFACE DRIP LINE FOR TREE PITS
- PLANTER C - KORNEGAY DESIGN - DUNE SERIES (DS-17.5) - COLOR: FULL-RANGE OF STANDARD & PREMIUM
- BENCH  
LANDSCAPE FORMS - STAY - BACKED W/ ARMS - COLOR: TITANIUM - SURFACE MOUNTED
- TRASH/RECYCLING RECEPTACLES  
LANDSCAPE FORMS - POE - COLOR: TITANIUM - SURFACE MOUNTED
- ASH CAN  
LANDSCAPE FORMS - GRENADIER - COLOR: TITANIUM - SURFACE MOUNTED

NOTES:

- REFERENCE SITE PLAN AND GEOMETRICS PLAN FOR EXACT LOCATIONS AND DIMENSIONS.

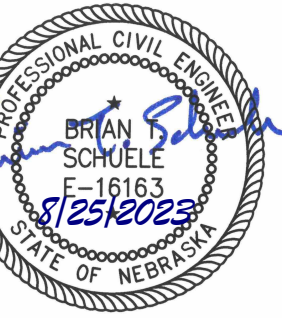


HARDSCAPE KEY NOTES

KEY	DESCRIPTION
A	6" CONCRETE SIDEWALK. REFERENCE SITE PLAN.
B	P-201, TEXTURED GRAY CONCRETE PAVING. REFERENCE HARDSCAPE DETAIL SHEET
C	NOT USED.
D	P-301, CONCRETE PAVERS. REFERENCE HARDSCAPE DETAIL SHEET.
E	P-302, CONCRETE PAVERS. REFERENCE HARDSCAPE DETAIL SHEET.
F	TREE GRATE. REFERENCE HARDSCAPE DETAIL SHEET.
G	EXPANSION JOINT. REFERENCE HARDSCAPE DETAIL SHEET.
H	SAW-CUT JOINT. REFERENCE HARDSCAPE DETAIL SHEET.
I	BENCH. REFERENCE HARDSCAPE DETAIL SHEET.
J	PLANTER. REFERENCE HARDSCAPE DETAIL SHEET.
K	TRASH AND RECYCLE RECEPTACLES. REFERENCE HARDSCAPE DETAIL SHEET.
L	ASH CAN. REFERENCE HARDSCAPE DETAIL SHEET.
M	EXISTING STREET LIGHT POLE.
N	EXISTING PEDESTRIAN LIGHT POLE.
O	LANDSCAPING BED. REFERENCE LANDSCAPING PLAN.
P	REMOVE EXISTING PAVERS. COORDINATE WITH LANDSCAPE ARCHITECT TO SEE IF PAVER BASE CAN BE REUSED.
Q	REMOVE AND RESET BENCH.
R	REMOVE AND RESET BIKERACK.

**olsson**

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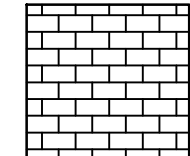
HARDSCAPE PLAN	2023
WEST HAYMARKET STREETSCAPE EXTENSION	
LINCOLN, NEBRASKA	

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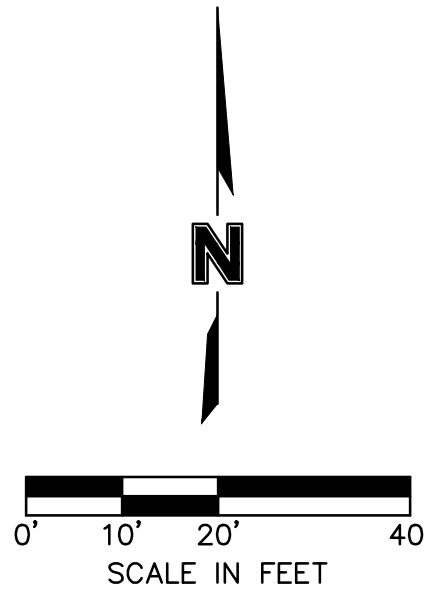
TYPICAL UNIT PAVER PATTERNS



RUNNING BOND

HARDSCAPE LEGEND

- RIGHT OF WAY / PROPERTY LINE
- 6" GRAY CONCRETE PAVING (P-200)
- 6" TEXTURED GRAY CONCRETE PAVING (P-201)
- CONCRETE PAVERS - PAVESTONE - HOLLAND - 4"X8" - 40% BROWN SANDSTONE, 40% TERRA COTTA, & 20% SANDSTONE BLEND; 2.375" THICKNESS; RUNNING BOND (P-301)
- CONCRETE PAVERS - PAVESTONE - HOLLAND - 4"X8" - SANDSTONE; 2.375" THICKNESS; RUNNING BOND (P-302)
- TREE GRATE - IRONSMITH - 48" ADA, 1/2" MAX. SLOT OPENING - CAST IRON SUB-SURFACE DRIP LINE FOR TREE PITS
- PLANTER C - KORNEGAY DESIGN - DUNE SERIES (DS-17.5) - COLOR: FULL-RANGE OF STANDARD & PREMIUM
- BENCH LANDSCAPE FORMS - STAY - BACKED W/ ARMS - COLOR: TITANIUM - SURFACE MOUNTED
- TRASH/RECYCLING RECEPTACLES LANDSCAPE FORMS - POE - COLOR: TITANIUM - SURFACE MOUNTED
- ASH CAN LANDSCAPE FORMS - GRENADIER - COLOR: TITANIUM - SURFACE MOUNTED

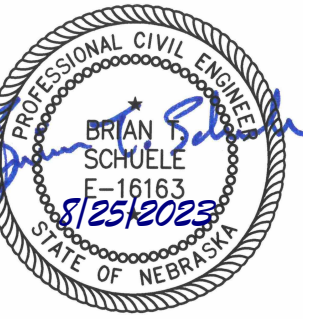


HARDSCAPE KEY NOTES

(A)	6" CONCRETE SIDEWALK. REFERENCE SITE PLAN.
(B)	P-201, TEXTURED GRAY CONCRETE PAVING. REFERENCE HARDSCAPE DETAIL SHEET
(C)	NOT USED.
(D)	P-301, CONCRETE PAVERS. REFERENCE HARDSCAPE DETAIL SHEET.
(E)	P-302, CONCRETE PAVERS. REFERENCE HARDSCAPE DETAIL SHEET.
(F)	TREE GRATE. REFERENCE HARDSCAPE DETAIL SHEET.
(G)	EXPANSION JOINT. REFERENCE HARDSCAPE DETAIL SHEET.
(H)	SAW-CUT JOINT. REFERENCE HARDSCAPE DETAIL SHEET.
(I)	BENCH. REFERENCE HARDSCAPE DETAIL SHEET.
(J)	PLANTER. REFERENCE HARDSCAPE DETAIL SHEET.
(K)	TRASH AND RECYCLE RECEPTACLES. REFERENCE HARDSCAPE DETAIL SHEET.
(L)	ASH CAN. REFERENCE HARDSCAPE DETAIL SHEET.
(M)	EXISTING STREET LIGHT POLE.
(N)	EXISTING PEDESTRIAN LIGHT POLE.
(O)	LANDSCAPING BED. REFERENCE LANDSCAPING PLAN.
(P)	REMOVE EXISTING PAVERS. COORDINATE WITH LANDSCAPE ARCHITECT TO SEE IF PAVES BASE CAN BE REUSED.
(Q)	REMOVE AND RESET BENCH.
(R)	REMOVE AND RESET BIKERACK.

**olsson**

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REV. NO.	DATE	REVISIONS DESCRIPTION

HARDSCAPE PLAN	2023
WEST HAYMARKET STREETSCAPE EXTENSION	
LINCOLN, NEBRASKA	

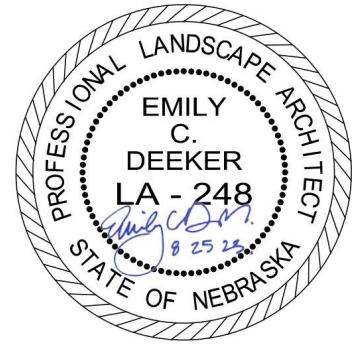
drawn by:	TJC
checked by:	TJC
approved by:	BTS
QA/QC by:	BTS
project no.:	018-2666
drawing no.:	
date:	08-25-2023











**SECTION 329300 - PLANTS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. The Contractor shall furnish all labor, materials, tools, equipment, supervision, and services necessary to install plant material, preparation of soil, fine grading, planting, mulching, guying, pruning, watering, and the proper disposal of any excess earth or debris, all in accordance with the accompanying Drawings and these Specifications.

**1.2 SECTION INCLUDES**

- A. Plants.
- B. Landscape edgings.
- C. Top soil.
- D. Planting soil mix.
- E. Mulch.
- F. Weed preventative fabric.

**1.3 RELATED SECTIONS**

- A. Section 328400 – Planting Irrigation

**1.4 DEFINITIONS**

- A. Backfill: The earth used to replace or the act of replacing earth in an excavation.
- B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant. Some sources classify herbicides separately from pesticides.
- C. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.

**1.5 ACTION SUBMITTALS**

- A. Prior to delivery to the job site, contractor shall submit to the Owner or Landscape Architect the source and supplier of all plant material, fertilizer and mulch, and other materials along with the type of equipment to be used on this project.

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- B. Product Data: For each type of product.
- C. Samples of each type of mulch.

### 1.6 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Sample warranty.

### 1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of plants during a calendar year.

### 1.8 QUALITY ASSURANCE

#### A. Regulatory Requirements

1. Comply with applicable requirements of Federal, State, and Local laws, regulations and codes having jurisdiction at the project site.
2. Contractor shall be responsible for certificates of inspection of plant material that may be required by Federal and Local authorities to accompany shipments of plants.

#### B. Reference Standards

1. "Standardized Plant Names" by the American Joint Committee of Horticultural Nomenclature.
2. "American Standard of Nursery Stock" by the American Association of Nurseryman.
3. American National Standards Institute (ANSI); Publication Z60.1.

#### C. Substitutions

1. Substitutions of plant material will not be permitted unless authorized in writing by Owner or Landscape Architect. If proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size or variety with corresponding adjustment of Contract Price. Such proof shall be substantiated and submitted in writing to the Owner and Landscape Architect at least thirty (30) days prior to start of the work under this Section. These provisions shall not relieve the Contractor of the responsibility of obtaining specified materials in advance if special growing conditions or other arrangements must be made in order to supply specified materials.

#### D. Condition and Source of Plants

1. Plants shall be subject to review and approval by the Owner or Landscape Architect upon delivery for conformity to Specifications. Such approvals shall not impair the right of review and rejection during progress of the Work. Submit written request for inspection of plant material at place of growth and quantity of plants to be inspected.

#### E. Coordination

1. Work in conjunction with other trades as directed, taking all reasonable precautions to avoid disturbance or interference with any other operation or installation on the site. Contractors shall be responsible for the cost of replacing any material damaged as a result of his/her negligence.

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- F. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
  - 1. Pesticide Applicator: State licensed, commercial.
- G. Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1.

### 1.9 DELIVERY, STORAGE, AND HANDLING

#### A. Storage of Materials

- 1. All materials delivered to the job shall be stored so as to keep them in new condition and free from deterioration. Peat moss, fertilizer, etc., shall be stored in temporary sheds off-site at Contractor's expense.

#### B. Packaged Materials

- 1. Deliver packaged materials in unopened containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery and while stored at site.

#### C. Plant Material

- 1. Plants shall not be delivered to the site until the corresponding beds are fully prepared. All shipments of nursery materials shall be thoroughly protected from the sun and from drying winds during transit. All plants which cannot be planted at once after delivery to the site of the work shall be well protected against the possibility of drying by wind and sun. Balls of earth on B&B plants shall be kept covered with soil or other acceptable material. All materials heeled-in on the property shall be adequately watered.
- 2. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.
- 3. Handle planting stock by root ball.
- 4. Store bulbs, corms, and tubers in a dry place at 60 to 65 deg F until planting.
- 5. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.

#### D. Review of Stock

- 1. All planting stock shall be inspected as required by Local, State, or Federal laws, and upon delivery at premises shall be subject to review by the Owner and/or Landscape Architect. All plant material is subject to rejection by the Owner and/or Landscape Architect either at time of delivery or after planting, provided it does not comply with the requirements stated herein. Any rejected stock shall be immediately removed from the premises and replaced with approved stock.

### 1.10 JOB CONDITIONS

#### A. Examination of Site:

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1. The bidder must acknowledge that he has examined the site, Drawings and Specifications and the submission of a quotation shall be considered evidence that examinations have been made.
  - B. Field Conditions: The Contractor shall verify drawing dimensions with actual field conditions and inspect related work and adjacent surfaces. The Contractor shall report to the Landscape Architect all conditions which prevent proper execution of this work.
  - C. The Contractor shall determine the exact location of all existing utilities, structures, and geogrid reinforcement before commencing work. The Contractor shall conduct his work so as to prevent interruption of service or damage to them. The Contractor agrees to be fully responsible for any and all damage which might be occasioned by the Contractor's failure to exactly locate and preserve any and all utilities, structures, and geogrid reinforcement.
- 1.11 SEQUENCING AND SCHEDULING
- A. Planting Time: Proceed with and complete planting as rapidly as portions of the site become available, working within seasonal limitations for each kind of landscape work required.
  - B. Planting Dates:
    1. Trees, shrubs, and perennials shall be planted only when the ground is not frozen, snow covered, or in an otherwise unsuitable condition for planting. Spring planting shall generally occur between Feb 15 and May 31. Fall planting shall generally occur between September 1 and Dec 15.
- 1.12 MATERIALS CLEAN-UP
- A. The Contractor shall keep the premises free from rubbish and all debris associated with their work at all times and all unused materials and debris shall be removed from the site.
- 1.13 WARRANTY
- A. All plant material (trees, shrubs, etc.) and planting supplies (bark mulch, etc.) shall be warranted for a period of not less than one (1) year from the date of issuance of the letter of Substantial Completion.
  - B. All replacement stock shall be subject to the same warranty requirements as the original stock. Any damage due to replacement operations shall be repaired by the Contractor. At the end of the warranty period, inspections shall be made jointly by the Owner, Landscape Architect, and Contractor. All plants not in a healthy growing condition shall be removed and replaced with plants of a like kind and size before the close of the next planting season and before issuance of the letter of Final Completion.
  - C. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period.
    1. Failures include, but are not limited to, the following:
      - a. Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner.
      - b. Structural failures including plantings falling or blowing over.

## **PART 2 - PRODUCTS**

### **2.1 TOPSOIL**

- A. Topsoil shall be fertile, natural topsoil, typical of the locality. Stockpiled topsoil may be used. It shall be free of subsoil, slag, clay, stones, lumps, sticks, plants or their roots, toxic substances or other extraneous matter that may be harmful to plant growth or would interfere with future maintenance. Topsoil pH range shall be 6.0 to 7.0.
- B. Soil Testing:
  - 1. Onsite Topsoil – The Contractor shall be responsible for having onsite topsoil tested by the Local County Extension Office to determine the amounts of amendments needed to meet the desired pH, nutritional organic levels determined to be adequate for the area by the County Extension Agent. The Contractor shall submit topsoil tests to the Landscape Architect.
  - 2. Offsite Topsoil - The Contractor shall be responsible for having offsite imported topsoil tested by the Local County Extension Office to determine the amounts of amendments needed to meet the desired pH, nutritional organic levels determined to be adequate for the area by the County Extension Agent. The Contractor shall submit topsoil tests to the Landscape Architect.
- C. Soil Conditioners and Amendments:
  - 1. Aluminum sulfate shall be horticultural grade.
  - 2. Peat shall be a natural product of sphagnum peat (peat moss), derived from a fresh-water site conforming to ASTM D 2607 except as otherwise specified. Peat shall be shredded and conditioned in storage piles for at least 6 months after excavation.
  - 3. Sand shall be clean and free of toxic materials.
  - 4. Vermiculite shall be horticultural grade and free of any toxic materials.
  - 5. Rotted manure shall be unleached stable or cattle manure not less than 8 months or more than 2 years old, containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; and containing no chemicals or ingredients harmful to plants. The manure shall be heat treated to kill weed seeds.
  - 6. Rotted sawdust shall have 7.5 pounds of nitrogen added uniformly to each cubic yard and shall be free of chips, stones, sticks, soil, and toxic substances.
  - 7. Gypsum shall be 90 percent pure, free of any toxic materials, and at least 95 percent by weight shall pass a 4-mesh sieve.
  - 8. Other amendments as recommended by County Extension Agent.
- D. Treatment of Saline Soil: Saline soil shall be leached out by a controlled amount of water sufficient enough to leach the salts to a level below the root zone. Water used for this purpose shall have a low salt content.

### **2.2 PLANTING SOIL MIXTURE**

- A. The “topsoil mixture” shall be composed of on-site or off-site topsoil and additional soil amendments appropriate for the location and plantings based on the soil test provided in the appendix.

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- B. The "planting soil mixture" for all planting pits shall be 80% topsoil mixture, 10% peat moss, and 10% well composted manure. Mix thoroughly for uniformity of texture and distribution before placing in pit.
- C. The "planter soil mixture" for all planters shall be 60% topsoil mixture, 10% peat moss, 10% well composted manure and 20% clean sand. Mix thoroughly for uniformity of texture and distribution before placing in planter.

### 2.3 PLANT STOCK

- A. Plant material shall be first quality stock and shall conform to the code of standards set forth in the current edition of the American Standards of Nursery Stock sponsored by the American Association for Nurserymen, Inc.
- B. Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant List, Plant Schedule, or Plant Legend indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.
- C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which begins at root flare according to ANSI Z60.1. Root flare shall be visible before planting.
- D. Species and variety as specified on the Drawings and delivered to the site shall be certified true to their genus, species and variety and as defined within the current edition of "Standardized Plant Names" by the American Joint Committee of Horticultural Nomenclature.
- E. The Contractor shall facilitate inspection and identification by labeling of trees, shrubs, and perennials with a durable waterproof label and weather-resistant ink. Labels shall state the correct plant name and size as specified in the plant list of required plants. Labels shall be securely attached to plants and shall be legible for 60 days after delivery to the planting site. Wire identification tags shall not be used. Plants not labeled will be rejected. The Contractor shall remove all tags after the Landscape Architect's acceptance of the installation.
- F. Plants shall be nursery grown and shall be of varieties specified in the plant list bearing botanical names.
- G. Planting stock shall be well-branched and well formed, sound, vigorous, healthy, free from disease, sun-scale, windburn, abrasion, and harmful insects or insect eggs; and shall have healthy, normal unbroken root systems. Deciduous trees and shrubs shall be symmetrically developed, of uniform habit of growth, with straight trunks or stems, and free from objectionable disfigurements. Evergreen trees and shrubs shall have well-developed symmetrical tops with typical spread of branches for each particular species or variety. Evergreen trees and shrubs shall not be sheared. Plants shall have been grown under climatic conditions similar to those in the locality of the project. Deciduous plants shall be dug in a dormant stage only.
- H. Stock Sizes: All stock measurements - caliper, height, branching level, number of canes, ball sizes shall be in strict accordance with the latest edition of the American Standard for Nursery Stock, unless otherwise noted on the plans. Plants used on the project shall meet or exceed all minimum requirements indicated in the size, condition, and remarks sections of the planting legend on the plan sheets.

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- I. All stock shall be balled and burlapped or container grown stock. Bareroot stock of any kind is unacceptable.
- J. All plant material must be watered the same day it is planted to comply with these Specifications.
- K. All trees shall be staked and guyed as shown on Drawings.

### 2.4 FERTILIZER

- A. All fertilizers shall be horticultural grade complete formula fertilizers and shall conform to the applicable State Fertilizer Laws.
- B. Plant Stock: Fertilizer shall be "AGRIFORM" slow release fertilizer tablets. To be applied per manufacturer's specifications. Perennials areas: Fertilizer shall be applied at the same rate as the lawn areas.

### 2.5 MYCORRHIZAL

- A. All mycorrhizal shall be horticultural grade complete formula mycorrhizal and shall conform to the applicable State Mycorrhizal Laws.
- B. MYKE Pro Landscape Granular Mycorrhizal Inoculant
  - 1. Distributor: Subject to compliance with requirements, provide products by the following:
    - a. Arbor Valley Nursery, Brighton, CO, (303) 654-1682, ArborValleyNursery.com.
  - 2. For approved equal, reference specific written instructions from manufacturer.

### 2.6 MULCHES FOR PLANTINGS

- A. Hardwood Mulch: Mulch in all planters labeled as hardwood mulch shall be shredded double ground oak or dark hardwood mulch of its natural color. Cypress, or dyed or colored mulch is unacceptable. Bark shall be of a relative uniform particle size with a median size of one and one-half inches (1-1/2") and shall be free of sticks, stones, leaves and any other debris.
- B. Rock Mulch: Mulch in all open landscape beds labeled as rock mulch shall be 1.0" to 1.5" Mountain Granite Landscape Rock as supplied by Outdoor Solutions in Lincoln, NE, (402) 420-1477 or approved equal. Weed preventative fabric shall be included within rock areas.

### 2.7 WEED PREVENTATIVE FABRIC

- A. Place fabric below all rock mulch in plant beds. Fabric shall be a woven polypropylene, 3.5 to 4.0 ounce product.

### 2.8 EDGING

- A. Shrub bed edge separating wood and rock mulch areas shall be black powder coated 1/4" x 5" x 16' edging with 15" stakes as manufactured by Sure-Loc Steel Edging. or approved equal. 1.800.787.3562.



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### 2.9 TRUNK WRAPPING MATERIAL

#### A. Tree wrap products

1. Paper tree wrap shall be two thicknesses of crinkled paper cemented together with a layer of bituminous material. Wrapping material shall be a minimum of 4" in width and have a stretch factor of 33 1/3 percent. Twine for tying shall be a grafting cord.
2. 50% white wash latex paint. Product shall be submitted to Landscape Architect prior to contractor applying.

### 2.10 WATER

- #### A. Water shall not contain elements toxic to plant life. It shall be the Contractor's responsibility to obtain water to be used for watering of plant material.

### 2.11 ANTI-DESICCANT

- #### A. Anti-desiccant shall be an emulsion that will provide a film over plant surfaces permeable enough to permit transpiration, and not damage the plant.

### 2.12 HERBICIDES

- #### A. Herbicides used must comply with all applicable State and Federal laws and be registered with the U.S. Environmental Protection Agency.

1. Herbicide control shall be: Pre-emergence application of "Dacthal" or equivalent applied according to manufacturer's recommendations and incorporated into soil as specified. Herbicide shall be in dry/pellet form.
2. Post-emergence application of "Roundup" or equivalent, applied as specified by manufacturer. Use with extreme care to avoid contact with landscape plantings.

### 2.13 PESTICIDES

- #### A. General: Pesticide registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

## PART 3 - EXECUTION

### 3.1 GENERAL PREPARATION

#### A. Clearing

1. All planting bed areas are to be cleared by the Contractor.
2. Clearing shall consist of the satisfactory removal and disposal of brush, rubbish, and other vegetative growth occurring within all planting bed areas. All debris associated with this work shall be gathered and removed from the project by the Contractor.

#### B. Preparation of Planting Mixture

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1. Mix recommended soil amendments and fertilizers with topsoil at rates recommended by the soil test results. Delay addition of fertilizer if planting mixture will not be used within two (2) days.

### C. Protection of Existing Vegetation

1. All areas under drip lines of existing trees shall be kept free of construction equipment, trailers, material storage, and vehicles.
2. Exercise extreme care when working around existing trees to remain. No soil scarification or compaction from construction vehicles shall occur under any existing tree dripline.
3. In areas of established turf, the surrounding turf area shall be covered in a manner that will provide protection before excavations begin.

## 3.2 TREE, SHRUB, AND PERENNIAL PLANTING

- A. All planting shall be performed by personnel familiar with the accepted procedure of planting and under the constant supervision of a qualified planting foreman.

- B. All planting is to be done as shown on drawings and as specified herein and in strict accordance with standard horticultural practices.

### C. Layout

1. Plant material locations and planting bed outlines shall be staked on the project site by the Contractor and approved by the Owner or Landscape Architect before any plant pits or beds are excavated. Plant material locations and bed outlines may be adjusted by the Landscape Architect to meet field conditions.

### D. Installation of Trees and Shrubs

1. Planting pits shall be excavated to produce vertical sides and flat bottoms. Scarify side walls to alleviate glazing and loosen any hard subsoil in bottom of pit. Minimum pit sizes shall be as shown on drawings. Tree pits within diamond parking lot islands shall be excavated per detail removing existing soil to depth shown prior to gravel and geotextile placement.
2. Dispose of all subsoil, clay, and rock (off-site) removed from planting excavations. The top six (6) inches of topsoil excavated from the planting pit, if free from subsoil, clay, rocks, roots, or other debris, may be utilized in the topsoil mixture as specified.
3. Setting Plants
  - a. Balled and burlapped and container grown plants shall be handled and moved only by the ball or container. Plants shall be set plumb and held in position until a sufficient quantity of planting soil mixture has been firmly placed around roots or ball. Plants shall be set in relation to surrounding grade so that they are 2" higher than the depth at which they are grown in the nursery, collecting field, or container. Fertilizer in tablet form shall be placed prior to backfilling and in accordance with the manufacturer's specifications. Mycorrhizal
  - b. Apply Mycorrhizal to the top 2/3 of root balls of all plant material according to the manufacturer's recommended rates. Inoculant must be physically rubbed onto the root ball thoroughly prior to backfilling planting hole. There is no restriction for use of slow release fertilizers with Mycorrhizal inoculant.
  - c. Balled and bur lapped stock shall be backfilled with the specified planting soil mixture to approximately half the depth of the ball and then tamped and watered. Burlap and tying materials shall be carefully removed or opened and folded back from top 1/3 of root ball. The remainder of backfill of planting soil mixture shall be tamped and watered.

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- d. Container-grown stock shall be removed from containers without damaging plant or root system. Planting shall be completed as specified for balled or burlapped plants.
4. Edging Planting Beds
  - a. All planting beds shall be edged with edging as indicated on the drawings.
5. Mulching
  - a. Prior to the installation of mulch, all areas to be covered shall be weed free and treated with the specified pre-emergent herbicide as specified herein.
  - b. Mulch for planting beds shall be installed to a minimum depth of three inches (3") in all planting bed areas specified on the Drawings. Mulch for all tree plantings shall be three inches (3") in depth.
  - c. Mulching shall take place within 48 hours after planting.
  - d. Mulch shall be kept out of the crowns of shrubs and off walls, sidewalks, light standards, and other structures.
  - e. The top of all areas covered with of mulch shall be 1" below the top of adjacent curb, walk, wall, wall cap, or edge of pavement.
6. Staking and Guying
  - a. Plants shall be staked and guyed as indicated on plans within 24 hours of planting.
  - b. Stakes shall be driven vertically into the ground to a depth specified in the detail and in such a manner as not to damage the ball or roots.
  - c. Tree tie systems shall be installed as per manufacturer's specifications.
  - d. All trees two- and one-half inches (2 1/2") caliper or less shall be staked with two metal "T" stakes. All trees greater than two- and one-half inches (2 1/2") caliper shall be staked with three metal "T" stakes, spaced equal distant around the tree.
7. Wrapping: The trucks of deciduous trees shall be wrapped within 24 hours after planting. Contractor shall coordinate with Landscape Architect which trees get wrapped or white wash prior to completion.
  - a. Tree Wrap: The wrapping shall be securely tied with grafting cord at the top and bottom and at 24" maximum intervals.
  - b. White Wash: Apply 50% white latex paint 50% water mix to trunk
8. Pruning: The Contractor shall prune new plant material in the following manner: Dead and broken branches shall be removed. Evergreen plants shall not be thinned out or sheared. Shrubs shall not be sheared. All plants shall meet or exceed the minimum requirements indicated in the size, condition, and remarks sections of the planting legend on the plan sheets after pruning has taken place. Cuts shall be made with sharp instruments and shall be flush with trunk or adjacent branch to insure elimination of stubs. "Headback" cuts at right angles to line of growth shall not be permitted. All trimmings shall be removed from the site.

### 3.3 TREE, SHRUB, AND VINE PRUNING

- A. Remove only dead, dying, or broken branches. Do not prune for shape.
- B. Prune, thin, and shape trees, shrubs, and vines as directed by Landscape Architect.
- C. Prune, thin, and shape trees, shrubs, and vines according to standard professional horticultural and arboricultural practices. Unless otherwise indicated by Landscape Architect, do not cut tree leaders; remove only injured, dying, or dead branches from trees and shrubs; and prune to retain natural character.
- D. Do not apply pruning paint to wounds.

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### **3.4 PLANT MAINTENANCE**

- A. The Contractor shall maintain trees, shrubs, and other plants by pruning, cultivating, and weeding as required for healthy growth until issuance of the letter of Substantial Completion for the entire site and scope of work. The Contractor shall tighten and repair stake and tree tie systems, reset trees and shrubs to proper grades or vertical position, restore or replace damaged wrappings, and apply herbicides and pesticides to keep trees, shrubs, and other plant material free of insects and disease as required until issuance of the letter of Substantial Completion.
- B. The Contractor shall be responsible for watering trees, shrubs, and other plant material until the new irrigation system is completely functional and the letter of Substantial Completion has been issued. Contractor shall be responsible for watering trees by hand where irrigation system does not cover. Hand watering of these trees shall continue for 90 days after letter of Substantial Completion has been issued. Watering shall supplement natural rainfall and shall assure that the trees, shrubs, and other plant material receive a minimum of one (1) inch of water per week.

**END OF SECTION 329300**

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## SECTION 329433 – PLANTERS

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Planters.

#### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, storage and handling requirements and recommendations, installation methods and available colors, styles, patterns and textures.
- B. Shop Drawings: Submit manufacturer's shop drawings, including plans and elevations, indicating overall dimensions.
- C. Samples: Submit manufacturer's samples of materials, finishes, and colors.
- D. Warranty: Manufacturer's standard warranty.

#### 1.3 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer must have 20 years experience in fabricating site furnishings.
- B. Product Support: Products are supported with complete engineering drawings and design patents.
- C. Production: Orders are filled within a 50-day schedule.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep materials in manufacturer's original, unopened containers and packaging until installation.
- C. Handling: Protect materials and finish during handling and installation to prevent damage.

#### 1.5 WARRANTY

- A. Warranty Information:
  - 1. Products will be free from defects in material and/or workmanship for a period of five years from the date of invoice.
  - 2. The warranty does not apply to damage resulting from accident, alteration, misuse, tampering, negligence, or abuse.

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3. Manufacturer shall, at its option, repair, replace, or refund the purchase price of any items found defective upon inspection by an authorized service representative.
4. Purchasers should be aware that normal use of these high quality products can result in superficial damage affecting the finish. Scratches, nicks, and dents are to be considered normal wear and tear, and are not the responsibility of the manufacturer.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURER

- A. Basis-of-Design manufacturer and product is identified and shall be bid as the base bid. Products by other listed manufacturers shall be bid as an alternate. Substitution request and pre-approval by the architect/engineer is required if proposing a manufacturer not listed in the specification section. Acceptance of alternate bids by Owner / Architect / Engineer / Construction Manager is not solely based on price. See Bid Form for additional information and clarification of expected breakdown.
- B. Basis-of-Design Product: Landscape Forms, Inc., 7800 E. Michigan Ave, Kalamazoo, Michigan 49048. Phone: (800) 521-2546. Fax (269) 381-3455. Website [www.landscapeforms.com](http://www.landscapeforms.com)  
E-mail: [specify@landscapeforms.com](mailto:specify@landscapeforms.com)

#### 2.2 PLANTERS

- A. Kornegay Planters - Planter A: Dune, 60"dia X 40"h
- B. Kornegay Planters - Planter B: Dune, 44"dia X 32"h
- C. Kornegay Planters - Planter C: Dune, 44"dia X 17.5"h
- D. Kornegay Planters - Planter D: Larkspur, 36"dia X 24"h with Custom 6" Lid

#### 2.3 MATERIAL

- A. Reinforced cast stone (concrete): Manufacturer's proprietary blend of portland cement, sand, aggregate, and color admixture.
  1. Use only one brand, type and source of cement for entire Project.
  2. Provide integral colored concrete with lightfast (UV and fade resistant) color pigments.
  3. Reinforced with steel bar framework.
- B. Water: Clean and potable.

#### 2.4 FABRICATION

- A. Formwork: Fabricate forms sufficiently rigid to meet casting tolerances. Coat formwork with form release agent.
- B. Casting: Fabricate units to required profiles and sizes. Execute work accurately to specified tolerances and free of broken edges.

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- C. Curing: Protect units from exposure to weather until concrete strength is adequate for form removal. Cure under identical conditions.

### 2.5 FINISHES

- A. Color: Full range of Standard and Premium finishes. Submit samples for selection.

## **PART 3 - EXECUTION**

### 3.1 EXAMINATION

- A. Examine areas to receive planters.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

### 3.2 INSTALLATION

- A. Install planters in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install planters level and plumb.
- C. Install planting soil per manufacturer's specifications.

### 3.3 ADJUSTING

- A. Finish Damage: Contact manufacturer for assistance to repair minor damages to finish as approved by Architect.

### 3.4 CLEANING

- A. Clean planters promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.

### 3.5 PROTECTION

- A. Protect installed planters to ensure that, except for normal weathering, planters will be without damage or deterioration at time of Substantial Completion.

## **END OF SECTION 329433**

## **SECTION 329443 – TREE GRATES**

### **PART 1 - GENERAL**

#### 1.1 SECTION INCLUDES

- A. Tree Grates.

#### 1.2 SYSTEM DESCRIPTION

- A. Suspended pavement type tree grates as shown on drawings and as specified herein.

#### 1.3 SUBMITTALS

- A. Contractor shall submit drawings of tree grates and frames for review by architect prior to purchase and installation.

#### 1.4 QUALITY ASSURANCE

- A. Manufacturer must have 5 years experience in fabricating suspended pavement systems for use in tree planting areas in pedestrian spaces.
- B. Installer qualifications: 2 years minimum experience installing tree grates and support frames and unit pavers.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store product in manufacturer's packaging until ready to install.
- B. Store protected from weather and excess moisture.

#### 1.6 WARRANTY

- A. Tree grates and frames shall be warranted by the Manufacture against defects in materials and workmanship for a minimum of five (5) years.

### **PART 2 - PRODUCTS**

#### 2.1 MANUFACTURERS

- A. Basis-of-Design manufacturer and product is identified and shall be bid as the base bid. Products by other listed manufacturers shall be bid as an alternate. Substitution request and pre-approval by the architect/engineer is required if proposing a manufacturer not listed in the specification section. Acceptance of alternate bids by Owner / Architect / Engineer /



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Construction Manager is not solely based on price. See Bid Form for additional information and clarification of expected breakdown.

- B. Basis-of-Design Product: IRONSMITH,INC., 41-701 Corporate Way, Unit 3, Palm Desert, CA 92260, (800) 338-4766.

### 2.2 TREE GRATES

- A. Tree grates shall be: ADA 48 inch Square Model 4836 with 16 inch tree opening.
- B. Tree grates material shall be cast gray iron from 100% recycled material. All tree grate castings shall be manufactured true to pattern and component parts, and shall fit together in a satisfactory manner. The castings shall be of uniform pattern and quality, free from blowholes, hard spots, shrinkage, distortion or other defects. Castings shall be cleaned by shot blasting.
- C. Matching steel angle frames provided by tree grate manufacturer model 4800F shall be provided with installation detail(s) per plans.
- D. Finish:
  - 1. Grates are to be supplied in unfinished natural state.
- E. Total Quantity: Per Plans.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until site is properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 INSTALLATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- D. Install grates and frames where indicated on plans flush and leveled with surrounding pavement surface.
- E. Install steel angle frame.
  - 1. Flush and leveled with surrounding paving surface, maintain flush and leveled at all times. Frames MUST NOT slope in more than one direction.
  - 2. Use spreaders or stakes to keep frame from being distorted by concrete pressure.
  - 3. Install frames per details on plans and manufacturer's recommendations.

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- F. Clean concrete and debris from frame prior to tree grate installation.
- G. If needed, grind pads on underside of tree grates to level and prevent rocking in frame.

### 3.3 PILFER PROOF BOLTING

- A. Position tree grates to meet in the center of tree well and have uniform spacing around outside edges of castings. Drill through counter bored holes in the grates and install pilfer proof bolts per manufacturer's instructions.
- B. Use 1" thick wood or foam block out under the frame to allow pilfer proof screw to extend below angle.

### 3.5 CLEAN-UP AND PROTECTION

- A. Protect installed product until completion of project.
- B. DO NOT ALLOW water from new concrete to run off or wash onto tree grate exposed areas to prevent damage from concrete exudates, lime, and efflorescence.
- C. Touch up, repair or replace damaged products.
- D. DO NOT ALLOW ANY CONTAMINATION OF TREE PLANTING AREA. This includes, but is not limited to, construction debris, excess concrete, paint or other chemical contaminants. Any contamination of the planting area may be detrimental to the long term health of the tree.

**END OF SECTION 329443**



# Memo

To: Urban Design Committee                      Date: 09/05/2023

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From: Arvind Gopalakrishnan                      Dept: Planning

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CC: Collin Christopher  
Paul Barnes

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Subject: Text amendments to the chapter 4.36 Urban Design Committee – Title 4 Boards and Commissions under the Lincoln Municipal Code.

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Filename: F:\UrbanDesignStaff/TextAmendments

Original:	<input type="checkbox"/>	Update:	<input type="checkbox"/>	Response Requested:	<input type="checkbox"/>	Information Only:	<input checked="" type="checkbox"/>
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This request is a proposal for text amendments to two existing sections, and addition of a new section within the chapter 4.36 Urban Design Committee. The major text updates, coupled with a design review flowchart, impact some critical aspects of the Urban Design Committee i.e., its powers and duties, the advisory review process, public hearings, appeals, and its jurisdiction relative to the other design review boards: The Nebraska Capital Environs Commission, and the Historic Preservation Commission. This will help inform the Urban Design Committee of its duties as well as its interaction and coordination with the other boards.

As part of the text amendment process, the Planning Department is working towards updating the code for all three design review boards to simplify the process, ~~and~~ have better coordination and decision making among each other, and to determine which board takes the final action based on the nature and location of the application.

The amendments will be shared with all three design review boards, the Urban Development Department, and eventually with the Planning Commission, and the City Council over the third and fourth quarter of 2023.

Attached are the marked-up amendments proposed by the Planning Department, along with the design review flowchart.

(Strikethrough language to be deleted, underlined to be added):

*4.36.30 Duties and Powers.*

f. Act as the Appeals Board for appeals of administrative decisions relating to the Downtown Design Standards, South Haymarket Design Standards, Neighborhood Design Standards, **Accessory Dwelling Design Standards**, or other appeals as may be assigned to the Committee from time to time. Such appeals shall be decided following a public notice and a public hearing as described in Section 4.36.050. (Ord. 20446 §2; February 13, 2017: prior Ord. 15437 §3; February 12, 1990: P.C. §14.90.020: Ord. 13439 §1; August 30, 1982: prior Ord. 13092 §3; January 16, 1981).

*4.36.040 Advisory Review Process.*

Final review. Final review of both public and private projects will consist of a review of various aspects of design with specific emphasis on the applicable objectives ~~in the resolution adopted under Section~~

**4.36.040 listed in the “Aspects and Limitations of Review and Submission Guidelines for Urban Design Review” document.**

*4.36.050 Meetings, Rules, and Notice of Public Hearings.*

The chair shall conduct the meetings of the committee. Minutes and a permanent record of all resolutions, motions, and determinations shall be kept on file in the office of the City Clerk. The committee shall prepare a full statement in writing to each applicant and to the City Council and Mayor detailing and explaining the reasons and basis for their recommendations. The committee shall meet as necessary to process all applications within forty-five days after receipt of application, ordinarily meeting monthly. A quorum shall be four members of the committee. The committee may adopt such rules, bylaws, and procedures as it deems appropriate to carry out the purposes and goals of this chapter.

Public hearings to be held by the Urban Design Committee on appeals relating to Downtown Design Standards, South Haymarket Design Standards, ~~or~~ Neighborhood Design Standards, **or Accessory Dwelling Design Standards** shall not be held until notice thereof has been given as provided in [Chapter 1.00 of the City of Lincoln Design Standards](#).

*4.36.070 Appeals.*

Findings and actions of the Urban Design Committee regarding appeals of decision regarding the Downtown Design Standards, South Haymarket Design Standards, ~~or~~ Neighborhood Design Standards, **or Accessory Dwelling Design Standards** may be appealed as provided in [Chapter 1.00 of the City of Lincoln Design Standards](#). (Ord. [20446](#) §5; February 13, 2017).

***4.36.080 Jurisdiction of the Committee Relative to Other Boards.***

**The Urban Design Committee shall refer review of applications pertaining to local landmarks and local landmark districts designated under LMC 27.57.120 to the Historic Preservation Commission and shall accept a Historic Preservation Commission Certificate as equivalent to recommendations given by the Urban Design Committee. When applications pertain to National Register properties or districts, properties determined to be potentially eligible for listing in the National Register by the federal government, or properties within 300 feet of a local landmark district, the Urban Design Committee shall receive a recommendation from the Historic Preservation Commission before rendering advice. The Committee shall refer review of applications within the Capitol Environs District defined under LMC 27.56.020 to the Nebraska Capitol Environs Commission and shall accept a Capitol Environs Commission Certificate as equivalent to recommendations given by the Committee. When applications pertain to projects impacting Capitol View Corridors, the Committee shall receive a recommendation from the Nebraska Capitol Environs Commission before rendering advice.**

Please feel free to contact us at **402-441-6361** or by email at **agopalakrishnan@lincoln.ne.gov** with any questions.

Thank you for your consideration.

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