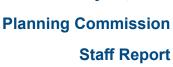
Planning Commission July 24, 2023 7:00PM City Hall, 6090 Woodson Street



AGENDA

- I. CALL TO ORDER
- II. APPROVAL OF MINUTES FROM JUNE 26, 2023
- III. NEW BUSINESS
 - 1. Public Hearing: Case #23-13 Residence on Rock Creek II Preliminary Development Plan at 5201 Johnson Drive (lot south of Martway)
 - 2. Public Hearing: Case #23-14 Tobacco Retailer Ordinance
 - 3. Case #23-15 Water Works Park Final Development Plan at 5814 West 53rd Street
- IV. OLD BUSINESS
- V. PLANNING COMMISSION COMMENTS
- VI. STAFF UPDATES





AT A GLANCE

Applicant:

Mission Bowl Apartments LLC

Location:

5201 Johnson Drive (South of Martway)

Property ID:

KP38000000 0007

Current Zoning:

MS-2

Proposed Zoning:

N/A

Current Land Use:

Surface Parking

Proposed Land Use:

Mixed-Use

Public Hearing Required

Legal Notice:

July 4, 2023

Case Number: 23-13

Project Name: Residence on Rock Creek Phase II

Project Summary:

The applicant proposes a mixed-use development of multi-family residential and retail for the existing parking area on the south side of Martway as phase two of the Residence on Rock Creek development that is currently under construction on the adjacent property to the west. It is a five-story structure, with four stories of 96 residential units over a first floor parking garage and small retail space with additional surface parking and on-street parking on site.

Staff Contact:

Karie Kneller, City Planner







PROPERTY BACKGROUND AND INFORMATION

The subject property is located at 5201 Johnson Drive, on the lot south of Martway. It is a proposed development for Phase II of the Residence on Rock Creek that is currently under construction. The property is zoned "MS-2" Main Street District 2. The lot is currently combined with the lot to the north on Martway, which is a high-rise office building.

The subject property is currently an impervious parking lot with an approximately 15-foot buffer between the lot and the stormwater channel. The north, west, and east perimeter also contain a small area of pervious landscaping strip; to the north is a two-foot strip on the south side of the existing sidewalk, with two landscaped islands at the west and east vehicular drives. According to County maps, the south side of the subject property lies partially within the 100-year floodplain, adjacent to the Rock Creek channel.

Stormwater generally flows from north to south and west to east on the property surface, without underground infrastructure to capture runoff. A concrete flume currently located on the southeast corner of the lot shunts stormwater from the surface into the Rock Creek channel. A water main is located on the north side of Martway and on the adjacent property to the west. Gas, electrical, and sanitary sewer utilities are available. The property is not currently platted.

PROJECT PROPOSAL

The applicant submitted a preliminary development plan for a 90,647 square foot 96-unit multi-family development with a 1,750-square foot retail component on the northwest corner of the ground floor. A structured parking and surface parking component with 98 spaces for residents is located under and at the back of the building, accessed on the south side of the lot via the east vehicular drive. There is an additional seven parking spaces located diagonally along Martway for retail customers. The building is a five-story structure, about the same height as the Residence on Rock Creek development that is currently under construction. This development is phase two of Residence on Rock Creek, and circulation through the phase two development consists of a drive onto the phase one property for fire access ingress and egress.

The building footprint is outside of the 100-year floodplain, with some surface parking located within the floodplain on the south side ground floor. While a stormwater capture component will be part of the final development plan, it is not included in the preliminary development plan as this time. The stormwater infrastructure needed to improve the site with this development will consist of best management practices for stormwater management according to the American Public Works Association (APWA) and Mid-America Regional Council (MARC) guidelines, and will be the standard of evaluation for plan details. Impervious surface will nominally increase by about 3.3% with this plan, therefore stormwater calculations are provided with the project packet. The conversion from paved parking to more than 23,000 square feet of rooftop impervious surface is anticipated to decrease runoff contaminates from oil, salt, and gasoline.

Landscaping consists of a variety of trees, bushes, and ground cover that will provide green space on





site on the perimeter and within the parking area. There are nine street trees proposed along Martway with this plan. Annual planter beds are also a part of the landscaping plan. An extension of the existing Rock Creek Trail is located on the north side of the lot to maintain that connection, and a small area with public exercise equipment is also located adjacent to the trail. This exercise equipment is an extension of equipment located similarly on the first phase of the Residence on Rock Creek project.

Materials consist of brick and stone, with breeze block detailing on the ground floor facing Martway east of the retail location. There are four glass doors proposed along street frontage, and spandrel glass detail along a storage wall on the north façade at the ground floor. Several balconies and vertical architectural details around 360-degrees of the building breaks up the frontage on each floor of the proposed development. Park benches and bike racks are available along Martway, as well.

The design team submitted a sustainability scorecard for review by the Sustainability Commission. The meeting will be scheduled to provide the Commission with an opportunity to review the project and provide feedback for ways to improve the sustainability of the project.

PLAN REVIEW AND ANALYSIS

Mission Comprehensive Plan and Municipal Code

The 2007 Comprehensive Plan indicates future land use for the subject property as mixed-use. The draft update to the Comprehensive Plan defines the property as "High-Density Residential," defined as 21 or more units per acre. The municipal code for properties located in MS-2 zones at §410.230-410.240 states that multi-family dwellings have a minimum of 35 units per acre.

Analysis: The proposal conforms with the municipal code and the comprehensive plan (2007 and draft update) for lot density.

The maximum height permitted in MS-2 is three stories and/or 45 feet. No front, side, or rear setback is required, except where the lot is adjacent to properties in R-1 or R-2 zoning districts.

Analysis: Because the lot is separated by the adjacent Rock Creek channel, this stipulation would not apply, but development is not permitted within the floodplain, so there is a significant back yard setback as determined by the floodplain area. This project is consistent with the development type, height, and density of phase one to the western adjacent lot, and the proposal conforms with the density and land use stipulated in the municipal code.

Parking requirements per municipal code at §410.250 (A) stipulate that for each 1,000 square feet of gross floor area, four spaces shall be provided. The retail space is 1,750 square feet, therefore the requirement for parking is seven spaces. These are provided in diagonal parking along Martway at the north side of the property. Americans with Disability Act (ADA) guidelines state that one ADA-accessible parking space should be provided for every 20 parking spaces on a site. There are a total of 105 parking spaces proposed, therefore six accessible spaces are required. Additionally, parking requirements for residential uses (B) stipulate that one space per bedroom for one- and two-bedroom units is required.





The project contemplates 112 bedrooms in 96 units, with 98 resident parking spaces in covered and uncovered lots.

Analysis: Staff is currently working with the applicant and the property owner to provide an agreement for shared parking to accommodate parking needs between the office use on the north side of Martway and the residential needs of this project. Staff will also work with the applicant to ensure that the ADA needs are met for the residents and customers. The shared parking agreement and equitable ADA access will be required with the final development plan.

Screening on the property is provided on the east side of the property, via a 4-foot high wall, that will be detailed in the final development plan. Trash receptacles are located behind the building in the uncovered parking lot, with access from within the building or covered parking garage. The final development plan will detail the enclosure materials.

Per municipal code at §415.030, screening for trash bins must be provided so that it is not visible from the pedestrian realm or off site, and the enclosure shall be constructed of masonry or frame. All roof-mounted equipment shall be screened from adjacent property or street level.

Analysis: The trash enclosure is located at the back of the building and will be enclosed with details to be provided in the final development plan

Landscaping requirements are provided in the municipal code at §415.090, which states that one tree is required for each 50 feet of street frontage. The frontage measures 385 feet, with a required eight trees. The proposal shows nine trees along street frontage. Additionally, one tree for each 3,000 square feet of open spaces is required. The lot has 5,390 square feet of open space, for a required two additional trees, which are provided in the plan. Landscaping within parking lots requires 6% of landscaped space and one tree for each 20 parking spaces (not to include garage). There are 50 uncovered parking spaces and three trees required. The area that is required to be landscaped is at least 486 square feet, and the proposal shows 592 square feet of landscaped parking area.

Analysis: The landscaping requirements as set forth in the municipal code are met with the preliminary plan; staff requires a landscape plan that details native and non-invasive species for the final development plan as noted.

Johnson Drive Design Guidelines

Materials in accordance with the Johnson Drive Design Guidelines (referenced in the municipal code as the City Wide Design Guidelines) shall be neutral beige, tan, and yellow tones and shall be of durable, high quality such as brick and stone. Each façade shall be addressed to provide a 360-degree design. The pedestrian realm is a priority, and should provide adequate connections for improved walkability. Park benches and bike racks are encouraged as part of design for walkable connections throughout the community as part of new developments. Ground floor transparency is encouraged to provide an enhanced pedestrian experience.





Analysis: It is staff's determination that the materials and overall architectural design is in conformance with the Johnson Drive Design Guidelines and provides a comprehensive design that is in context with surrounding properties. The extension/retention of the Rock Creek Trail connection provides improved walkability that is inviting and safe for pedestrians and the additional seating, bike racks, and exercise equipment provides enhancements that are consistent with improvements along the corridor. The breeze block detail on the ground floor facing Martway, entry doorways, and spandrels create an environment that engages passing pedestrians and bicyclists.

RECOMMENDATION

Staff recommends that the Planning Commission recommend approval to the City Council of Case #23-13, the preliminary development plan for Residence at Rock Creek Phase II with the following conditions:

- 1. A final development plan will be submitted to the City and approved by the Planning Commission prior to the issuance of any building permits.
- 2. A Final Stormwater Management Report will be required with the Final Development Plan submittal. The stormwater report will document stormwater infrastructure and detention basin design details, subject to review and approval by Public Works staff.
- 3. All necessary stormwater infrastructure, as determined by guidance in the adopted 2009 APWA/ MARC Manual of Best Management Practices for Stormwater Quality, will be detailed in the final development plan.
- 4. A Cross Parking Access Agreement outlining arrangements for shared parking between the proposed development site and the office building to the north located at 5201 Johnson Drive is required for the final development plan. Said Cross Parking Access Agreement will be signed by all parties and recorded with the Johnson County Register of Deeds prior to a building permit being issued.
- 5. Provide adequate ADA parking; One stall for every 20 spaces is required for final development plan. At least one ADA parking stall should be available to residents on-site outside of the parking structure.
- 6. Provide an ADA parking stall for the retail use.
- 7. A study to determine the sight-line from the residential properties that are adjacent to the south to the equipment on the roof shall be completed to ensure that roof-mounted equipment is adequately screened from view; to be provided with the final development plan.
- 8. A detailed landscaping plan is required with the submittal of the final development plan;



landscaping that is native and non-invasive shall be provided.

- 9. A detailed lighting plan is required with the submittal of the final development plan; lighting specifications that adhere to International Dark Sky Standards is preferred.
- 10. A study to determine the need for an improved crosswalk and/or beacon for pedestrians at the mid-block crossing for access to parking on the north side of Martway shall be included in the final development plan.
- 11. Details of the trash enclosure shall be provided that ensure adequate screening of waste from view off the site; to be provided with the final development plan.
- 12. All necessary easements and dedicated rights-of-way shall be submitted in a preliminary plat prior to final development plan approval.
- 13. An application for a Land Disturbance Permit shall be submitted to, and issued by, the City before any clearing, grading, or digging occurs on the site beyond the demolition that has already occurred.
- 14. The applicant shall submit a Final Site Plan and construction documents to the City for review and approval prior to building permit issuance.
- 15. The applicant shall obtain all approvals from Johnson County Wastewater and Johnson County Water District #1 prior to building permit issuance.
- 16. The applicant shall obtain all necessary reviews, inspections, and approvals from Consolidated Fire District #2 prior to final occupancy permit being issued.
- 17. The applicant shall be responsible for all damage to existing City infrastructure, including roads, curbs, and sidewalks. Repairs shall be of a quality like or better than existing conditions before final Certificate of Occupancy issuance.
- 18. The applicant shall provide a two (2) year warranty bond on all public infrastructure installed as part of this Preliminary Development Plan; bond(s) will be placed on file with the City of Mission Community Development Department.
- 19. Maintenance agreement for all site improvements, including but not limited to structures, improved infrastructure, landscaping, parking, and pedestrian connections on the property shall be provided and signed by the applicant and the appropriate City officials prior to construction permitting.
- 20. This Preliminary Plan approval shall lapse in five (5) years from its effective date if construction on the project has not begun, or if such construction is not being diligently pursued; provided, however, that the applicant may request a hearing before the City Council to request an extension of this time period. The City Council may grant an extension for a maximum of 12 months for good cause.



PLANNING COMMISSION ACTION

The Planning Commission will hear Case #23-13 at its July 24, 2023 public hearing.

CITY COUNCIL ACTION

The City Council will hear Case #23-13 at its August 16, 2023 public hearing.



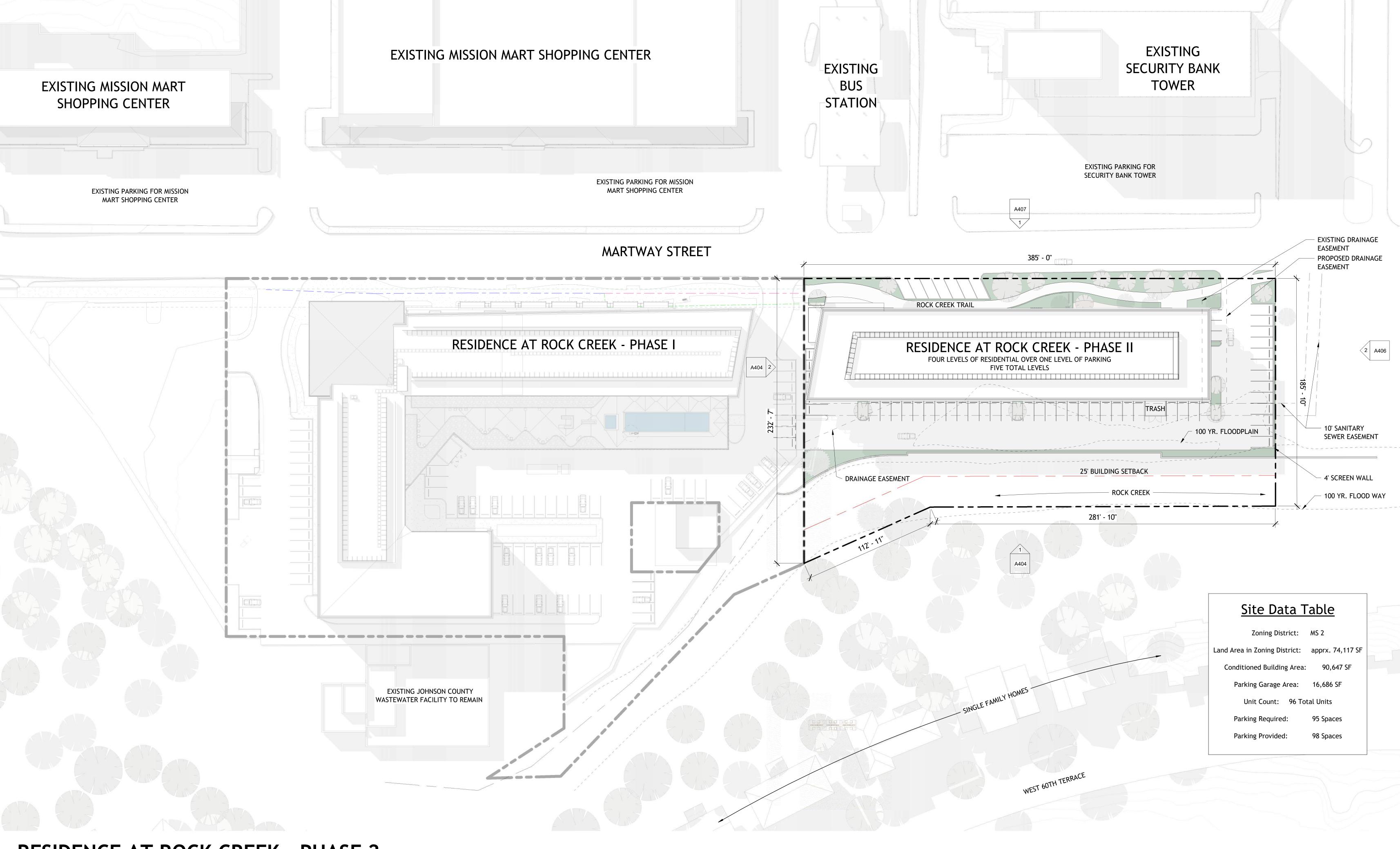
Community Development Department 6090 Woodson Street Mission, KS 66202 913-676-8360

Development Application

Permit	#		

Applicant Name: Books Flowdown Company: Mission Bowl Aportments LLC				
Address: 901 NEW Hompshiere Steret, Site 201				
City/State/Zip: Lawrence, KS 106044				
Telephone: 816.938.2808				
Email: bfloodman sunfloweakc. com				
Property Owner Name: Beain Dw 7 UC Company: Blain Do 7 LLC				
Address: 300 E 39th St.				
City/State/Zip: Vansas City, MO GIII				
Telephone:				
Email: abeain@beaingeoup.co				
Firm Preparing Application: Convol Texanor Company: CT Design & Development				
Address: 800 Nzw Hampstier				
City/State/Zip: Laurence, KS 66044				
Telephone:				
Email: cteranor @ ctdesigndru.com				
*All correspondence on this application should be sent to (check one) 😾 Applicant Owner Firm				
Application Type				
Rezoning □ Plat □ Site Plan ເ⁄p\ SUP □ Lot Split □ Other (Specify):				
Description of Request				
Please provide a brief description of the request: The applicant is expresting				
perliminary druztopment plan (PDP) proviso in considion with				
: +s peopos=d endowdopmont of the existing posting lot to appear 92-100				
multifamily apactment units.				

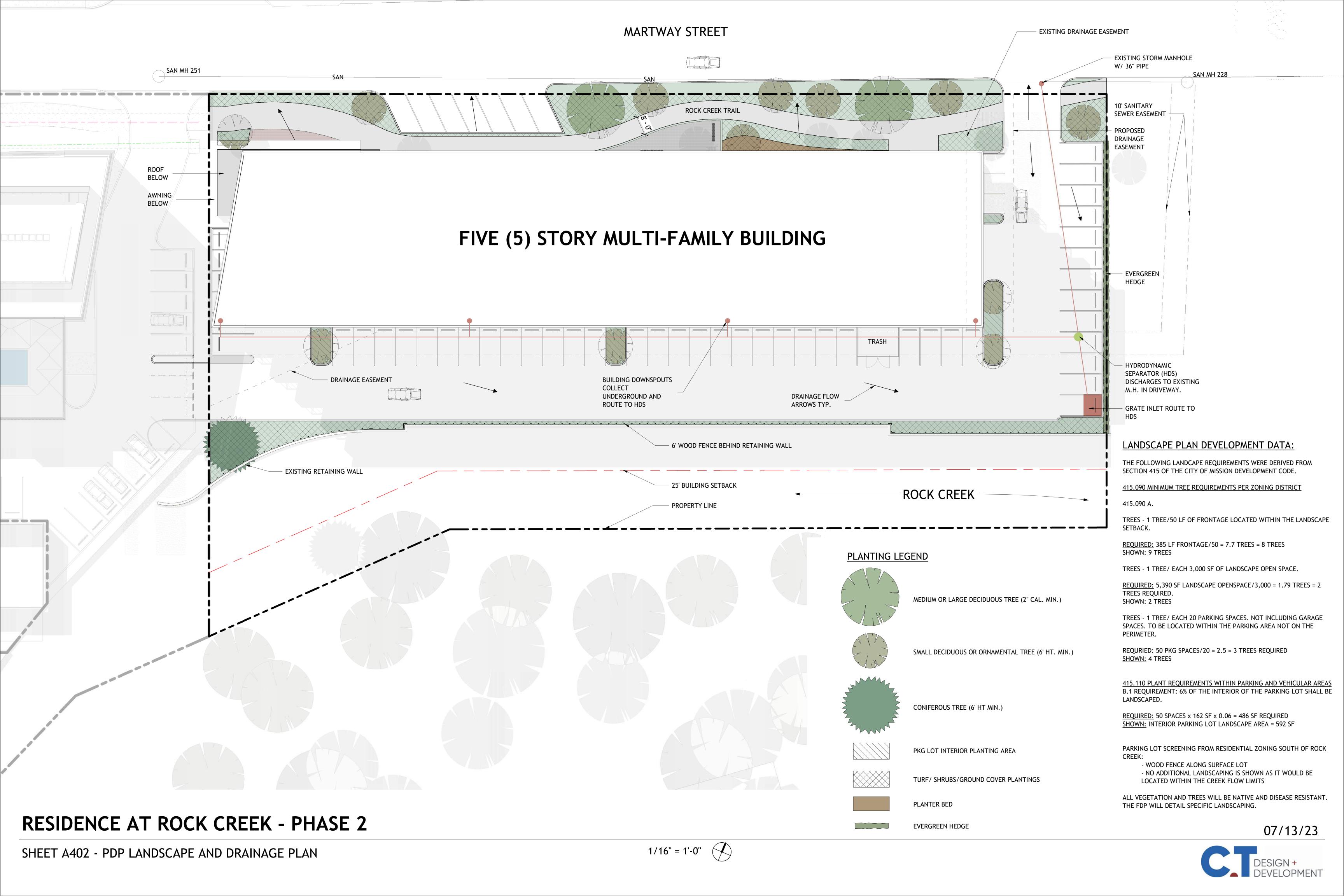
Project Details				
General Location or Address of Property: 52	01 Johnson De (post of Sicurity Boule Pe			
Present zoning of property: M52				
Present use of property: Vocant pakin	lot			
resonance of property.	7			
i karanga karangan	x			
	e a particular and a second			
Agreement to Pay Expenses				
(City). As a result of the filing of said application, Cit publication costs, consulting fee, attorney fee, and cost to reimburse City for all cost incurred by City as (10) days of the receipt of any bill submitted by City any of its commissions will be effective until all costs obtains the relief requested in the application.	Immunity Development Department of the City of Mission, Kansas by may incur certain expenses, such as but not limited to court reporter fees. Applicant hereby agrees to be responsible for a result of said application. Said costs shall be paid within ten to Applicant. It is understood that no requests granted by City or s have been paid. Costs will be owed whether or not Applicant			
Affidavit of Ownership and/or Authorization of A I, Jason Sweeds, waske of Missi subject property. I give my permission for the under being submitted.	gent Apot Mods UCC Cor Bocertify that I am the owner or contract purchaser of the resigned to act as my agent on behalf of the application hereby			
x Ser	Date 5/4/23			
Signature (Owner)				
x Andrew Brain Signature (Owner's Agent)	Date 5/16/23			
	OFFICE USE ONLY*********			
, c.	CONTINUE COSE CIVET			
File Fee: \$	Meeting Date			
	PC CC			
Total	Date Notices Sent			
Total: Receipt #				
Notes:	Date Published			
	Decision			

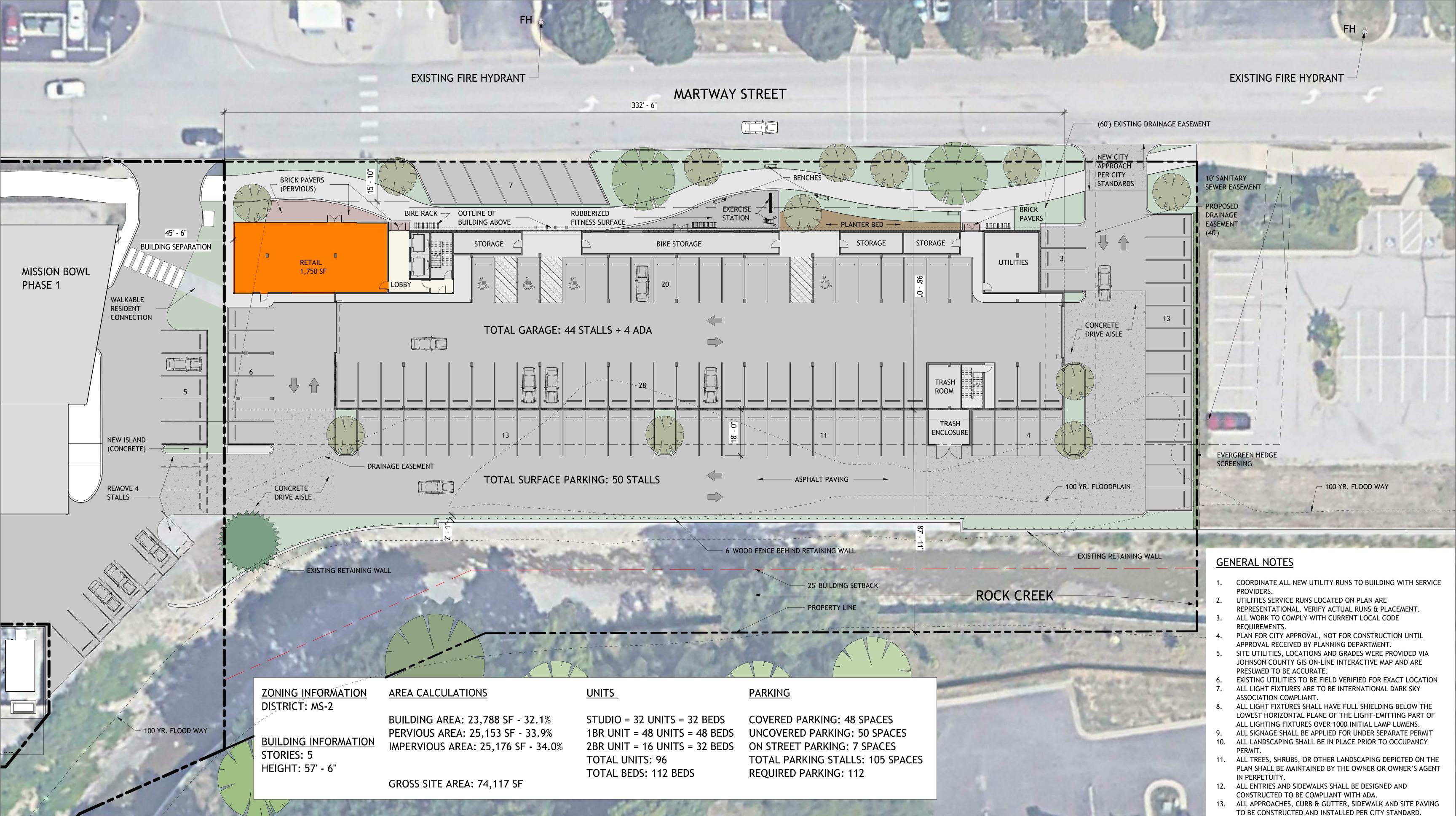


RESIDENCE AT ROCK CREEK - PHASE 2

DESIGN +
DEVELOPMENT

07/13/23





RESIDENCE AT ROCK CREEK - PHASE 2

07/13/23

REFERENCE STORM WATER REPORT FOR PRELIMINARY

DATED 05/17/2023

DESCRIPTION OF SITE BMP STRATEGY BY UHL ENGINEERING



1 NORTH ELEVATION



2 EAST ELEVATION

RESIDENCE AT ROCK CREEK - PHASE 2



1 SOUTH ELEVATION

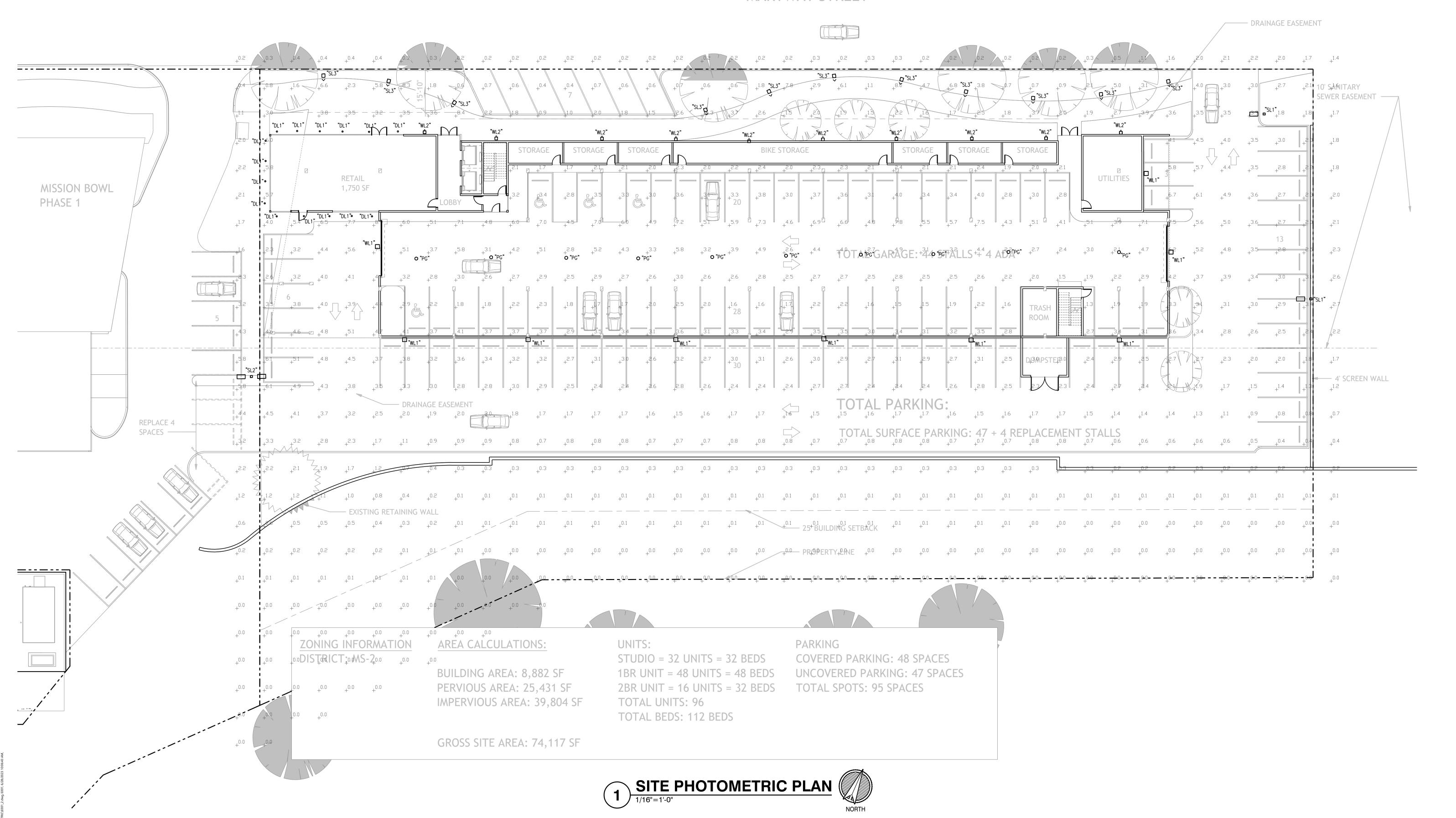


2 WEST ELEVATION

RESIDENCE AT ROCK CREEK - PHASE 2

DESIGN +
DEVELOPMENT

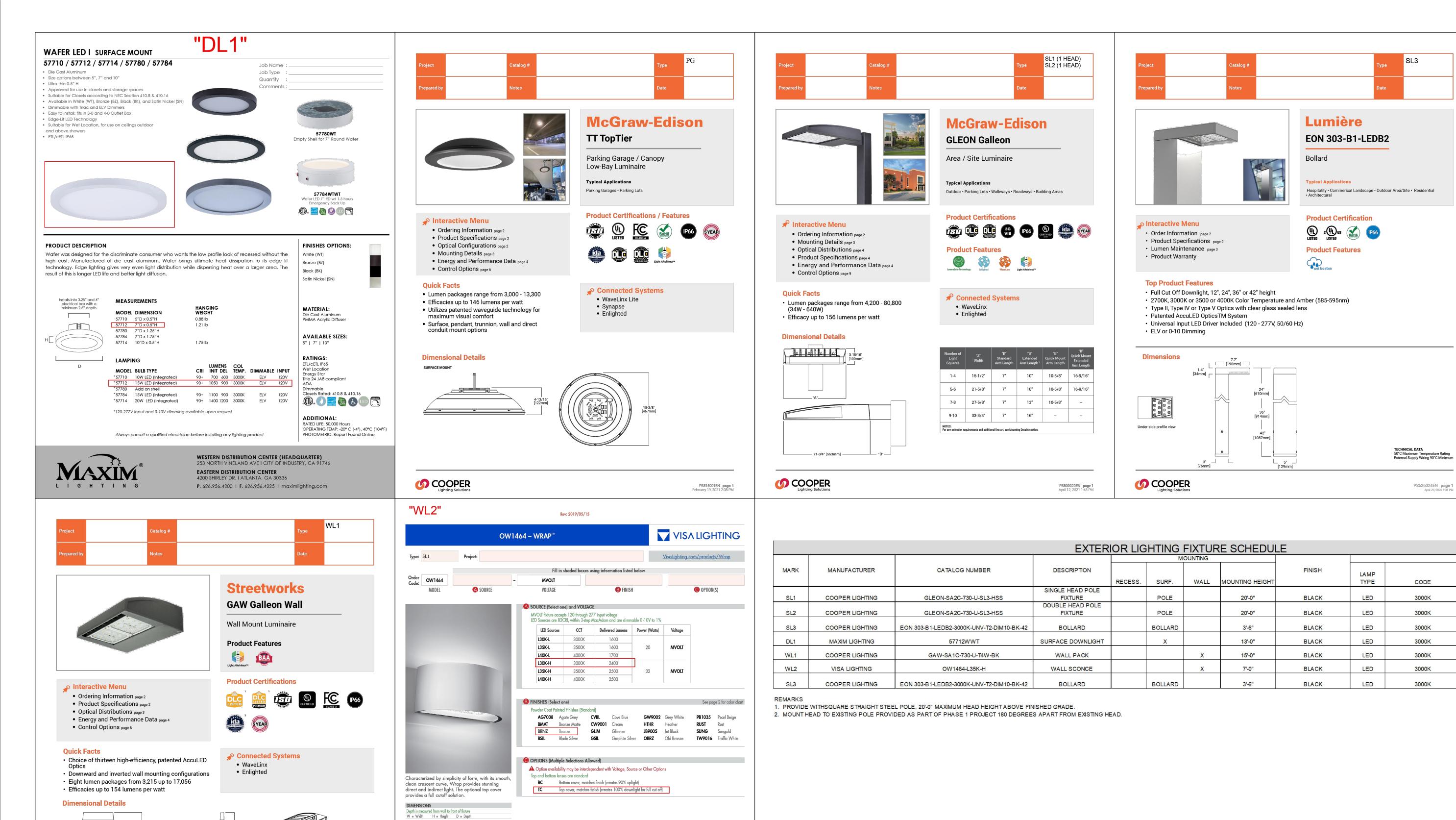
MARTWAY STREET













RESIDENCE AT ROCK CREEK - PHASE 2

W 15-7/8" (403 mm) H 8" (203 mm) D 7-7/8" (200 mm)

800-788-VISA

VisaLighting.com

LIGHT

LOSS

WATTAGE LUMENS FACTOR REMARKS

113 14,474 0.9 1

900 0.9

7,556 0.9

2,500 0.9

113 14,474 0.9

1,250

1,250

GAW with CBP option installed

O COOPER

Thru-Branch Back Box accessory MA1059XX)

NOTES:

1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.

2. IDA Certified for 3000K CCT and warmer only.







7211 west 98th Terrace, Suite 110 • Overland Park, Kansas 66212 (913) 385-2670

May 17, 2023

Celia Duran City Engineer Mission, Kansas

Preliminary Stormwater Letter - Site Improvements Rock Creek Apartments, Phase 2 Mission, Kansas

Celia:

This report is a preliminary summary of existing and proposed stormwater conditions for planned improvements at the Rock Creek Apartments, Phase 2 site located along Martway Street, adjacent to the Mission Bowl, Phase 1 development (on its east side).

A. SCOPE

This report accompanies a preliminary submittal to the City of Mission addressing the feasibility of a second phase to the Mission Bowl Apartments project (currently under construction).

The information contained herein was gathered from Johnson County AIMs mapping, copies of previous surveys, Google imagery, and independent observation/verification of existing storm drainage systems by removing manholes covers. No site/field surveys have been conducted to date. No digital models have been created to date for this (proposed) project.

B. SUMMARY

The proposed site is currently a paved parking area, adjacent to and east of the Mission Bowl, Phase I development. This Phase 2 project includes removing the existing pavement for parking and constructing a multi-story building parking at the ground floor level, similar to the design in Phase 1.

The site runoff generally flows from west to east, and north to south with a ridge line at the east side entry that diverts a small portion of the flow toward Martway, with the majority of flow to a concrete flume at the southeast corner of the site, releasing to Rock Creek. Said concrete flume rests atop the recently installed modular wall system on the north side of Rock Creek that contains the Floodway and Floodplain along this reach.

Generally, the proposed improvements create an increase in impervious area of approximately 2,455+/- square feet (sf), or 3.3% of total area, and while the City of Mission has stipulated that stormwater detention for any added stormwater runoff and stormwater treatment may be required, the lack of any buried stormwater systems make it difficult to propose design elements that are below the finished grade.

The portion of flow that reaches Martway Street falls into the gutter and continues east to a curb inlet where it is captured. There are no enclosed storm drainage systems on-site or fronting the site.

C. IDENTIFICATION OF DOWNSTREAM DRAINAGE ISSUES

Rock Creek channel improvements have recently been completed, including concrete block walls, reduction of downstream erosion in Rock Creek, and improvement of the 100-year floodplain relative to the proposed channel. No downstream flooding problems have been reported.

D. CORPS OF ENGINEERS REQUIREMENTS

No permit from the Army Corps of Engineers is required for this project.

E. FEMA/DWR REQUIREMENTS

The recent improvements to Rock Creek (ATTACHMENT C) contain the Floodway within the walls, and remove Floodway and Floodplain from this property, except for an area of Floodplain at the southeast corner of this site, where the aforementioned concrete flume discharges to Rock Creek.

F. STREAM CORRIDORS

No City ordinances for natural streams and preservation of stream corridors were indicated.

G.PROPOSED ON-SITE DRAINAGE SYSTEM

Existing:

There are no on-site storm drainage systems.

The Rock Creek channel upgrades and improvements were finished during the summer of 2020. An existing 24" corrugated metal pipe located along the western side of this property was abandoned as part of the 2020 Rock Creek Channel Improvements.

The manhole cover on a concrete drainage structure in the existing east drive approach was opened to reveal a larger diameter (36" +/-) pipe, but there was no flow, and the City confirmed that they have no record of said system. (ATTACHMENTS D & E)

There is a curb inlet further east along the south curb line of Martway, but the limits and capacity of that system have not been evaluated. (ATTACHMENTS D & E)

Proposed On-site:

No on-site storm drainage systems are proposed. Altering the north wall of the recently improved Rock Creek (to attain vertical depth) appears to be very problematic, possibly requiring approval by FEMA, the US Army Corps of Engineers and State of Kansas agencies.

Proposed Off-site:

No off-site improvements are proposed.

H.PROPOSED STORMWATER TREATMENT

The proposed improvements, while increasing net impervious, also convert 23,838 sf from paved parking to rooftop, thereby decreasing the contamination caused by oil, salt and gasoline landing on the paved parking areas. Accordingly, the Developer requests a waiver from stormwater treatment.



I. CONCLUSIONS

- The proposed improvements will increase the impervious area on site by 2,455 sf, or 3.3%.
- Waivers for stormwater detention and stormwater treatment are requested for these reasons:
 - ➤ While there is net increase in impervious area created by the proposed improvements, approximately 23,838 sf is being converted from paved parking to roof area, significantly reducing the contamination from the oil, salt, gasoline contributed from paved parking areas.
 - ➤ The lack of buried storm drainage systems within or surrounding the site precludes the possibility of buried on-site storm drainage systems to provide the required depth for both stormwater detention and treatment.
 - ➤ The runoff from this site reaches Rock Creek along the south side of the site.

If you have any questions or comments regarding the contents of this report, please contact me directly at 913-385-2670.

Sincerely,

UHL ENGINEERING, INC.

erry S. Uhl

Enclosures:

ATTACHMENT A: Existing Site Plan ATTACHMENT B: Proposed Site Plan

ATTACHMENT C: 'SNAPSHOT' FROM GBA IMPROVEMENT PLANS ATTACHMENT D: Photograph of Existing Manhole at East Entrance

ATTACHMENT E: Photograph of Curb Inlet East of Site on South Side of Martway



ATTACHMENT A: Existing Site Plan



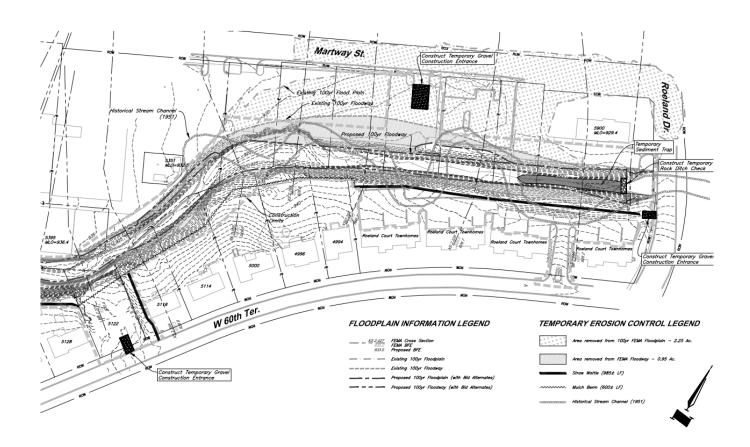


ATTACHMENT B: Proposed Site Plan





ATTACHMENT C: 'SNAPSHOT' FROM GBA IMPROVEMENT PLANS



ATTACHMENT D: Photograph of Existing Manhole at East Entrance



ATTACHMENT E: Photograph of Curb Inlet East of Site on South Side of Martway





Trip Generation Analysis for Residence at Rock Creek Phase II Development

Martway Street, approx. 450 ft. west of Roeland Drive Mission, Kansas

Prepared for CT Design + Development



Mehrdad Givechi, P.E., PTOE **June 2023**

According to the <u>City of Mission's Transportation Impact Study Guidelines</u>, preparation of a traffic impact study is required for all land development and redevelopment applications. Different levels of traffic study are warranted at certain thresholds depending on the number of trips that the development generates and/or its deviation from the comprehensive plan. For developments generating under 100 trip-ends during the peak-hour of a typical weekday, the study should address the first five tasks listed in the guidelines. The information presented in this document is compiled to fulfill these requirements for the proposed *Phase II of the Residence at Rock Creek* development located on the south side of Martway Street approximately 400 ft. west of Roeland Drive in Mission, Kansas (See *Location Map*, *Figure 1* of *Appendix I*).

- 1. Proposed Development Plan The project site is bounded by Martway Street on the north, an approved multifamily residential development (Phase I of the Residence at Rock Creek) on the west, Rock Creek on the south, and a fast-food restaurant with drive through lane (Wendy's) on the east. The site is currently a surface parking lot with 144 marked stalls. Under the proposed development plan, the parking lot will be replaced by a 5-story building with the top 4 floors consisting of 96 dwelling units of multifamily residential development (24 units per floor comprised of studio, 1-bedroom and 2bedroom units). The Ground Level has a small retail area of 1,600 sq. ft. that is available for lease as well as built storage rooms that will be available for use by the tenants of the building. The building is built as a podium style structure and thus covers 48 resident parking stalls on the ground level, which will be secured by fencing and garage doors. The remainder of the parking will be surface parking outside of the building's footprint with 47 more marked stalls. Overall, the number of parking spaces for the project are 197 for Phase I and 95 for Phase II. The residents of the Phase II building will be granted access to the Phase I building Amenity spaces, such as pool, workout rooms, yoga, etc. (See the Site Plan, *Figure 2* of *Appendix I*.)
- 2. **Zoning, Lan Use and Roadway Classifications** The existing and proposed zoning is MS-2. According to the *Comprehensive Plan 2007 with updates adopted March 16, 2011*, the

MGS June 2023

existing land use for the project site is *commercial* and the future land use is *parks and* pathways. The *Linkage Map* of the same document indicates that Martway Street is designated as a *proposed trail* facility.

According to the <u>City Traffic Code, Schedule III, Table III-A, Ordinance No. 1109, Nall</u> Avenue, Roeland Drive and Martway Street are designated main trafficway whose primary function are the movement of through traffic between areas of concentrated activity within the city limits or between such areas within the city limits and traffic facilities outside the city limits performing the function of a main trafficway.

According to the <u>East Gateway Long-Range Development Plan, June 2006</u>, Nall Avenue is a primary north/south street, Roeland Drive is a secondary north/south street, and Martway Street is a primary east/west Street.

3. Roadway Characteristics - Near the project site:

- Martway Street and Roeland Drive are 3-lane roadways with one through lane in each direction, a two-way center left-turn lane and posted speed limit of 25 mph.
- Nall Avenue is a 3-lane roadway with one through lane in each direction, a two-way center left-turn lane and posted speed limit of 30 mph.
- The intersections of Martway Street with Roeland Drive and Nall Avenue are controlled by traffic signals.
- 4. **Proposed Site Access Characteristics** The site is currently served by two driveways near the east and west property lines. Under the proposed development plan, the west driveway will be eliminated, and the east driveway will be modified to serve as the only access point to the site as shown on the site plan in **Appendix I**.

Field investigations indicate that the proposed access drive to the site is on a flat and tangent section of Martway Street with no sight distance restriction.

MGS June 2023

5. Site Generated Traffic - Trip generation of a proposed land development project is typically estimated using trip generation rates suggested by the latest edition of the Institute of Transportation Engineers, Trip Generation Manual (Currently, the 11th Edition). For this analysis, ITE land use codes 221 (Mid-Rise Multifamily Housing) with number of dwelling units as the independent variable; and 932 (High-Turnover, Sit-Down Restaurant) with gross floor area as the independent variable are selected for the residential and retail components of the project, respectively. For each use, both weighted average rate and regression equation methods were examined and the method with higher trip numbers was selected,

Results, as shown in the *Appendix II*, indicate that the proposed *Phase II of the Residence at Rock Creek* development will generate the following *unadjusted* trips during peak-hours of a typical weekday as described below:

- On average, 51 trip-ends (16 inbound 35 outbound) during morning peak-hour of the <u>adjacent street network</u>.
- On average, 52 trip-ends (32 inbound 20 outbound) during afternoon peak-hour of the *adjacent street network*.
- On average, 608 trips-ends during a 24-hour period.

The proposed development project consists of a mix of residential and retail components with potential for internal trip capture that is typically estimated using the information published in the <u>ITE Trip Generation Handbook</u>, <u>3rd Edition</u> and the <u>NCHRP 684 Internal Trip Capture</u> <u>Estimation Tool</u>. The internal trip capture for this project, as shown in **Appendix II** is:

- 8% total (13% inbound 6% outbound) during morning peak-hour
- 8% total (6% inbound 10% outbound) during afternoon peak-hour

Furthermore, the project site is approximately 360 ft. south of Johnson Drive, which is designated as *a local transit route* according to the City's Comprehensive Plan. It is, therefore, anticipated that a portion of the external trips generated by the development project will be

MGS June 2023

utilized by the public transportation and non-motorized modes. For this analysis, a value of 5% for each mode is assumed as a reasonable mode share.

The results of the analysis indicate that the proposed Phase II of the Residence at Rock Creek development project generates less than 100 external trip-ends during peak-hours of adjacent street network as follows:

- On average, 45 trip-ends (14 inbound 31 outbound) during morning peak-hour of the adjacent street network.
- On average, 44 trip-ends (28 inbound 16 outbound) during afternoon peak-hour of the adjacent street network.

Further analysis indicates that the approved Phase I of the Residence at Rock Creek development consisting of 176 dwelling units generates the following trip numbers:

- On average, 66 trip-ends (15 inbound 51 outbound) during morning peak-hour of the <u>adjacent street network</u>.
- On average, 69 trip-ends (42 inbound 27 outbound) during afternoon peak-hour of the <u>adjacent street network</u>.
- On average, 799 trips-ends during a 24-hour period.

In summary, the entire residence at Rock Creek development, at build out, will generate the following external trips:

- On average, 111 trip-ends (29 inbound 82 outbound) during morning peak-hour of the adjacent street network.
- On average, 113 trip-ends (70 inbound 43 outbound) during afternoon peak-hour of the <u>adjacent street network</u>.
- On average, 1,235 trips-ends during a 24-hour period.

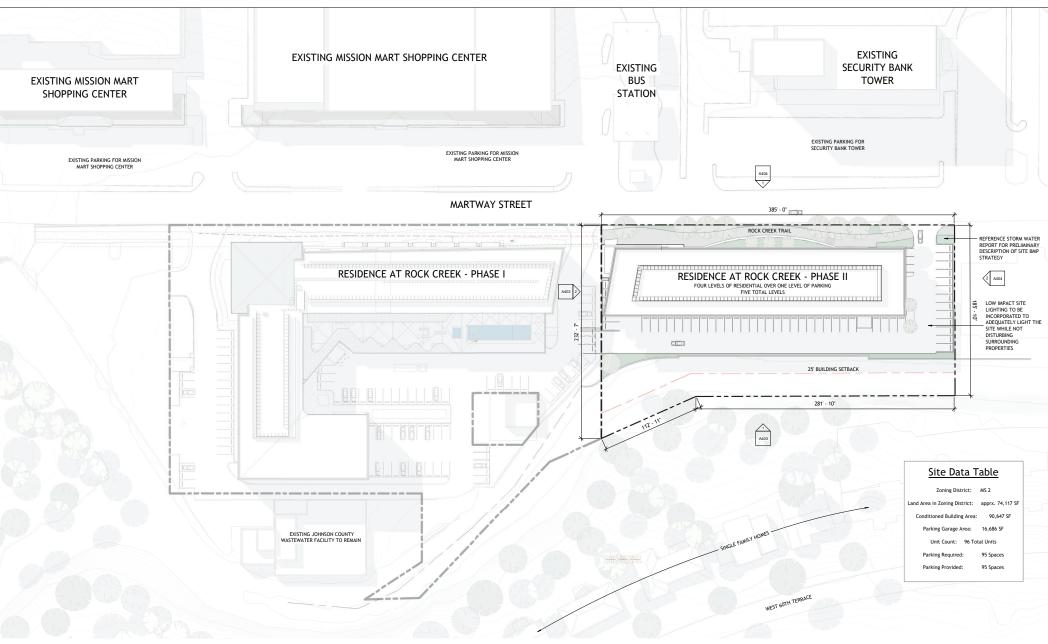
MGS June 2023

APPENDIX I

Figures



Figure 1 - Location Map



RESIDENCE AT ROCK CREEK - PHASE 2

05/17/23

APPENDIX II

Results of Trip Generation Analysis
Using
ITE Trip Generation Manual, 11th Edition

Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

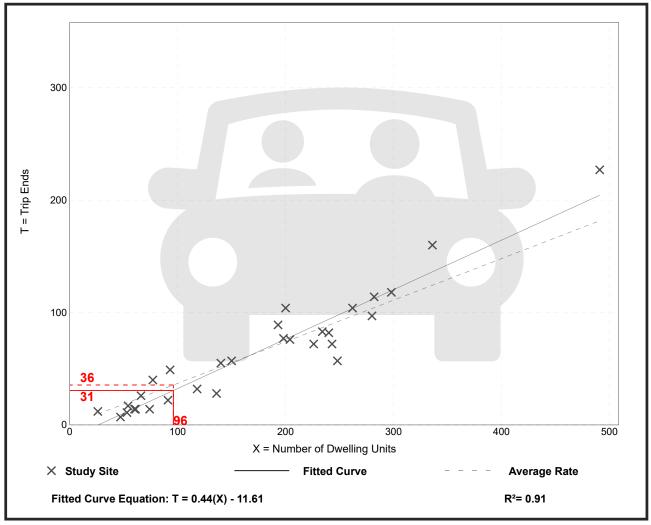
Setting/Location: General Urban/Suburban

Number of Studies: 30 Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09



Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

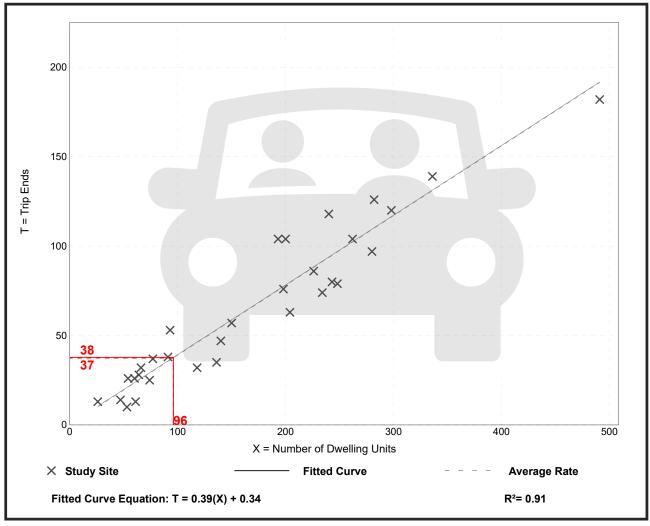
Setting/Location: General Urban/Suburban

Number of Studies: 31 Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08



Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

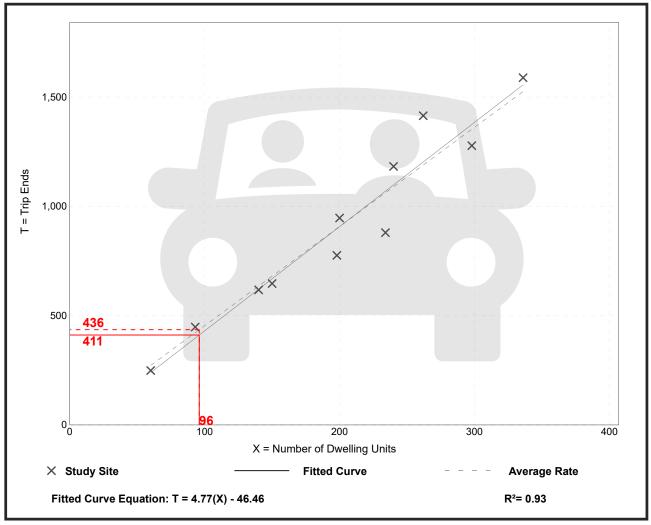
Setting/Location: General Urban/Suburban

Number of Studies: 11 Avg. Num. of Dwelling Units: 201

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.54	3.76 - 5.40	0.51



High-Turnover (Sit-Down) Restaurant

(932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

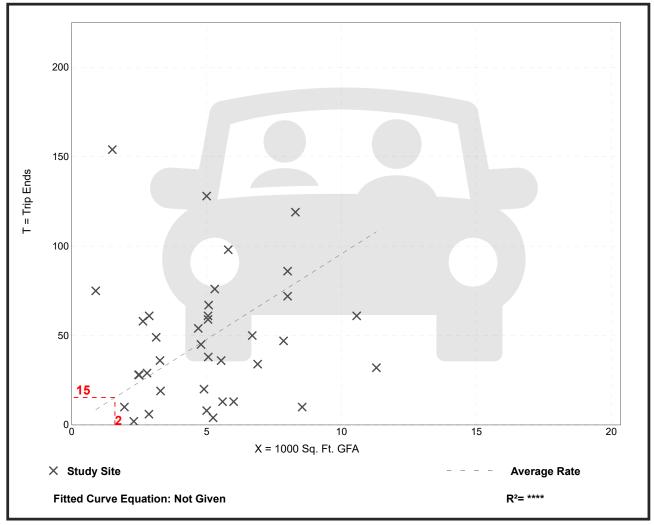
Setting/Location: General Urban/Suburban

Number of Studies: 37 Avg. 1000 Sq. Ft. GFA: 5

Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate Range of Rates		Range of Rates	Standard Deviation	
	9.57	0.76 - 102.39	11.61	



High-Turnover (Sit-Down) Restaurant

(932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

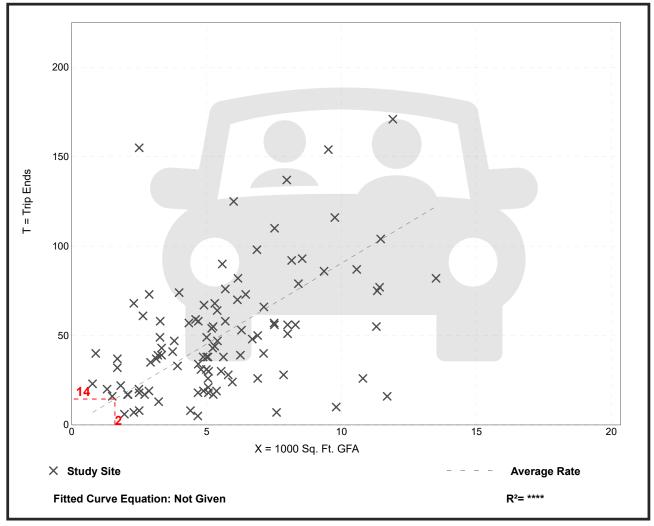
Setting/Location: General Urban/Suburban

Number of Studies: 104 Avg. 1000 Sq. Ft. GFA: 6

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate Range of Rates		Standard Deviation
9.05	0.92 - 62.00	6.18



High-Turnover (Sit-Down) Restaurant

(932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

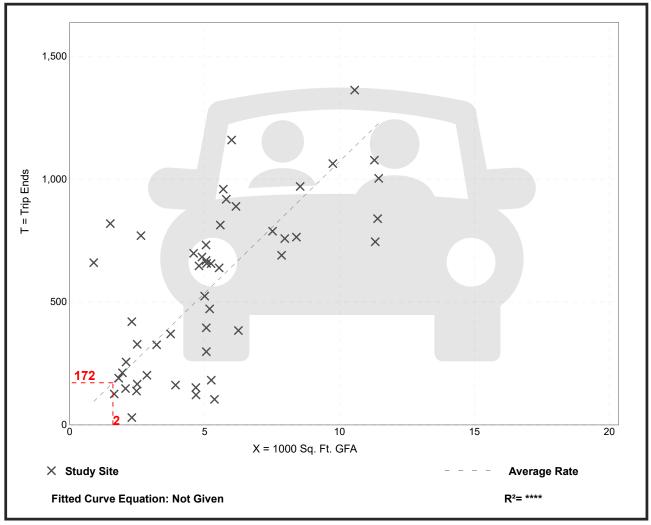
Setting/Location: General Urban/Suburban

Number of Studies: 50 Avg. 1000 Sq. Ft. GFA: 5

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate Range of Rates		Standard Deviation
107.20	13.04 - 742.41	66.72



NCHRP 8-51 Internal Trip Capture Estimation Tool								
Project Name:	Residence at Rock Creek, Phase II	Organization:	MGS					
Project Location:	Mission, KS		Performed By:	MG				
Scenario Description:	Project at Build-Out		Date:	6/26/2023				
Analysis Year:	2023		Checked By:					
Analysis Period:	AM Street Peak Hour		Date:					

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)							
Land Use	Developme	Development Data (For Information Only)			Estimated Vehicle-Trips		
	ITE LUCs1	Quantity	Units		Total	Entering	Exiting
Office					0		
Retail					0		
Restaurant	932	1,600	sq. ft. (GFA)		15	8	7
Cinema/Entertainment					0		
Residential	221	96	dwelling units		36	8	28
Hotel					0		
All Other Land Uses ²					0		
Total					51	16	35

Table 2-A: Mode Split and Vehicle Occupancy Estimates							
Landllan		Entering Tri	ps		Exiting Trips		
Land Use	Veh. Occ.	% Transit	% Non-Motorized		Veh. Occ.	% Transit	% Non-Motorized
Office							
Retail							
Restaurant	1.00	5%	5%		1.00	5%	5%
Cinema/Entertainment							
Residential	1.00	5%	5%		1.00	5%	5%
Hotel	1.00	0%	5%		1.00	0%	5%
All Other Land Uses ²							

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)							
Origin (Fram)	Destination (To)						
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel	
Office							
Retail							
Restaurant							
Cinema/Entertainment							
Residential							
Hotel							

		Table 4-A: Ir	nternal Person-Tri	o Origin-Destination Matrix	*	
Origin (Fram)				Destination (To)		
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		0	0	0	0
Restaurant	0	0		0	0	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	0	2	0		0
Hotel	0	0	0	0	0	

Table 5-A: Computations Summary								
	Total	Entering	Exiting					
All Person-Trips	51	16	35					
Internal Capture Percentage	8% 13%		6%					
External Vehicle-Trips ³	45	14	31					
External Transit-Trips ⁴	1	0	1					
External Non-Motorized Trips ⁴	1	0	1					

Table 6-A: Internal Trip Capture Percentages by Land Use									
Land Use	Exiting Trips								
Office	N/A	N/A							
Retail	N/A	N/A							
Restaurant	25%	0%							
Cinema/Entertainment	N/A	N/A							
Residential	0%	7%							
Hotel	N/A	N/A							

¹Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

³Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

⁴Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Project Name: Analysis Period:	·

Table 7-A: Conversion of Vehicle-Trip Ends to Person-Trip Ends									
Land Use	Tab	le 7-A (D): Enter	ing Trips		Table 7-A (O): Exiting Trips				
	Veh. Occ.	Vehicle-Trips	Person-Trips*		Veh. Occ.	Vehicle-Trips	Person-Trips*		
Office	1.00	0	0		1.00	0	0		
Retail	1.00	0	0		1.00	0	0		
Restaurant	1.00	8	8		1.00	7	7		
Cinema/Entertainment	1.00	0	0		1.00	0	0		
Residential	1.00	8	8		1.00	28	28		
Hotel	1.00	0	0		1.00	0	0		

	Table 8-A (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)									
Origin (Fram)	Destination (To)									
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		0	0	0	0	0				
Retail	0		0	0	0	0				
Restaurant	2	1		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	1	0	6	0		0				
Hotel	0	0	0	0	0					

	Table 8-A (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)									
Origin (Fram)		Destination (To)								
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		0	2	0	0	0				
Retail	0		4	0	0	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	0	0	2	0		0				
Hotel	0	0	0	0	0					

	Table 9-A (D): Internal and External Trips Summary (Entering Trips)									
Destination Land Lles	ı	Person-Trip Esti	mates		External Trips by Mode*					
Destination Land Use	Internal	External	Total		Vehicles ¹	Transit ²	Non-Motorized ²			
Office	0	0	0		0	0	0			
Retail	0	0	0		0	0	0			
Restaurant	2	6	8		6	0	0			
Cinema/Entertainment	0	0	0		0	0	0			
Residential	0	8	8		8	0	0			
Hotel	0	0	0		0	0	0			
All Other Land Uses ³	0	0	0		0	0	0			

	Table 9-A (O): Internal and External Trips Summary (Exiting Trips)									
Origin Land Has	Person-Trip Estimates				External Trips by Mode*					
Origin Land Use	Internal	External	Total		Vehicles ¹	Transit ²	Non-Motorized ²			
Office	0	0	0		0	0	0			
Retail	0	0	0		0	0	0			
Restaurant	0	7	7		7	0	0			
Cinema/Entertainment	0	0	0		0	0	0			
Residential	2	26	28		24	1	1			
Hotel	0	0	0		0	0	0			
All Other Land Uses ³	0	0	0		0	0	0			

¹Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

²Person-Trips

³Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator *Indicates computation that has been rounded to the nearest whole number.

	NCHRP 8-51 Internal Trip Capture Estimation Tool									
Project Name: Residence at Rock Creek, Phase II Organization: MGS										
Project Location:	Mission, KS		Performed By:	MG						
Scenario Description:	Project at Build-Out		Date:	6/26/2023						
Analysis Year:	2023		Checked By:							
Analysis Period:										

	Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)									
Land Use	Developme	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips					
Land Use	ITE LUCs1	Quantity	Units		Total	Entering	Exiting			
Office					0					
Retail					0					
Restaurant	932	1,600	sq. ft. (GFA)		14	9	5			
Cinema/Entertainment					0					
Residential	221	96	dwelling units		38	23	15			
Hotel										
All Other Land Uses ²					0					
Total					52	32	20			

Table 2-P: Mode Split and Vehicle Occupancy Estimates									
Land Use		Entering Tri	ps		Exiting Trips				
Land Ose	Veh. Occ.	% Transit	% Non-Motorized		Veh. Occ.	% Transit	% Non-Motorized		
Office									
Retail									
Restaurant	1.00	5%	5%		1.00	5%	5%		
Cinema/Entertainment									
Residential	1.00	5%	5%		1.00	5%	5%		
Hotel	1.00	0%	5%		1.00	0%	5%		
All Other Land Uses ²									

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (Fram)				Destination (To)					
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office									
Retail					200				
Restaurant									
Cinema/Entertainment									
Residential		200							
Hotel									

	Table 4-P: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)										
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		0	0	0	0	0					
Retail	0		0	0	0	0					
Restaurant	0	0		0	1	0					
Cinema/Entertainment	0	0	0		0	0					
Residential	0	0	1	0		0					
Hotel	0	0	0	0	0						

Table 5-P: Computations Summary				
	Total	Entering	Exiting	
All Person-Trips	52	32	20	
Internal Capture Percentage	8%	6%	10%	
External Vehicle-Trips ³	44	28	16	
External Transit-Trips ⁴	2	1	1	
External Non-Motorized Trips ⁴	2	1	1	

Table 6-P: Internal Trip Capture Percentages by Land Use				
Land Use	Entering Trips	Exiting Trips		
Office	N/A	N/A		
Retail	N/A	N/A		
Restaurant	11%	20%		
Cinema/Entertainment	N/A	N/A		
Residential	4%	7%		
Hotel	N/A	N/A		

¹Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

³Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

⁴Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Analysis Period:	
Project Name:	Residence at Rock Creek, Phase II

	T	able 7-P: Conver	sion of Vehicle-Tr	ip E	nds to Person-Trip En	ds	
Land Use	Table	e 7-P (D): Entering	Trips			Table 7-P (O): Exiting Trips	
Land OSE	Veh. Occ.	Vehicle-Trips	Person-Trips*	1	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0		1.00	0	0
Retail	1.00	0	0		1.00	0	0
Restaurant	1.00	9	9		1.00	5	5
Cinema/Entertainment	1.00	0	0		1.00	0	0
Residential	1.00	23	23		1.00	15	15
Hotel	1.00	0	0		1.00	0	0

Table 8-P (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)						
Origin (From)		Destination (To)				
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		0	0	0	0
Restaurant	0	2		0	1	0
Cinema/Entertainment	0	0	0		0	0
Residential	1	6	3	0		0
Hotel	0	0	0	0	0	

Table 8-P (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)						
Origin (Frame)		Destination (To)				
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	1	0
Retail	0		3	0	11	0
Restaurant	0	0		0	4	0
Cinema/Entertainment	0	0	0		1	0
Residential	0	0	1	0		0
Hotel	0	0	0	0	0	

Table 9-P (D): Internal and External Trips Summary (Entering Trips)							
Destination Land Has	Р	erson-Trip Estima	ites			External Trips by Mode*	
Destination Land Use	Internal	External	Total	1	Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0		0	0	0
Retail	0	0	0		0	0	0
Restaurant	1	8	9		8	0	0
Cinema/Entertainment	0	0	0		0	0	0
Residential	1	22	23		20	1	1
Hotel	0	0	0		0	0	0
All Other Land Uses ³	0	0	0		0	0	0

Table 9-P (O): Internal and External Trips Summary (Exiting Trips)							
Origin Land Has	P	erson-Trip Estima	ites			External Trips by Mode*	
Origin Land Use	Internal	External	Total	Ī	Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0		0	0	0
Retail	0	0	0		0	0	0
Restaurant	1	4	5		4	0	0
Cinema/Entertainment	0	0	0		0	0	0
Residential	1	14	15		12	1	1
Hotel	0	0	0		0	0	0
All Other Land Uses ³	0	0	0		0	0	0

¹Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

²Person-Trips

³Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.



Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

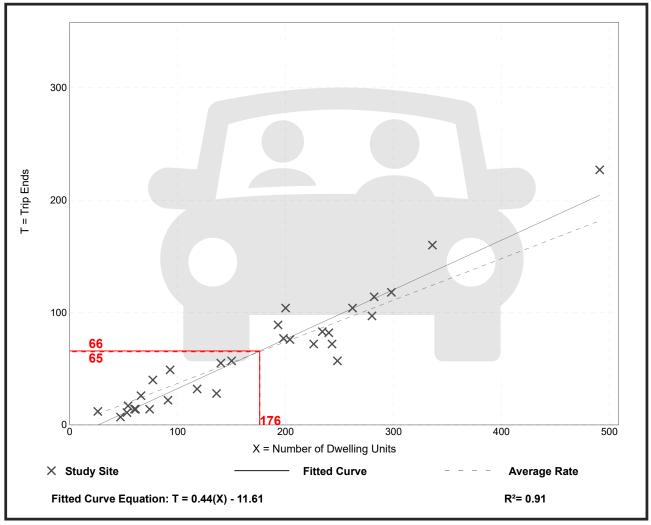
Setting/Location: General Urban/Suburban

Number of Studies: 30 Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09



Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

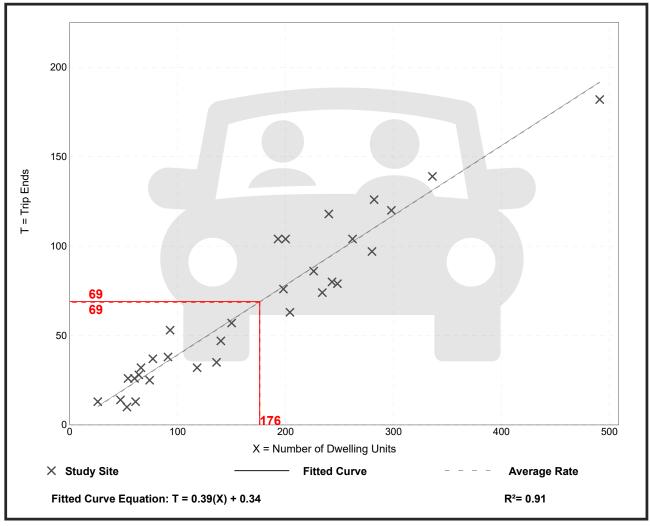
Setting/Location: General Urban/Suburban

Number of Studies: 31 Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

-	<u>_</u>	
Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08



Multifamily Housing (Mid-Rise)

Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

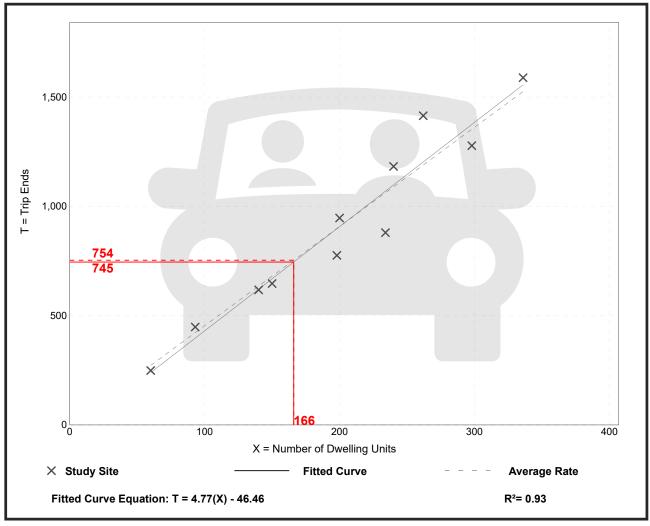
Setting/Location: General Urban/Suburban

Number of Studies: 11 Avg. Num. of Dwelling Units: 201

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

•	<u> </u>	
Average Rate	Range of Rates	Standard Deviation
4.54	3.76 - 5.40	0.51





Thank you for your interest in the City of Mission, Kansas Sustainability Scorecard. The Sustainability Commission has developed this scorecard for prospective development projects. This is a voluntary program that seeks to reward those making sustainable choices in new construction, redevelopment, or renovations.

It is a way to capture considerations taken into account through project design and construction that go above and beyond minimum Building Code. We have used the scorecard with projects like:

- · The Mission Gateway Development,
- · The Cornerstone Commons development at Johnson Drive and Barkley Street,
- · The EPC Mission Trails project on Johnson Drive, and
- · The Martway Apartments project.

Once you go through the scorecard document and the supplemental information, we would invite you to score your project to the best of your judgement, and then come to a Sustainability Commission meeting to talk through your scoring. The priority is to have a dialogue between you and the Sustainability Commission members, with you sharing your decision making. We will benefit from hearing you explain when implementing some of these criteria makes sense, and if it doesn't, the reasons why not. To the extent that the conversation may lead you to consider enhanced sustainability measures, all the better.

Following a presentation from you or someone from your team, the Sustainability Commission will review your scoring, and then forward its comments and/or recommendation to you and to the Planning Commission. If a project scores high enough, the Sustainability Commission will award Sustainable Mission certification at one of four levels: Bronze, Silver, Gold or Platinum.

There is no binding authority in this process, just an additional opportunity for community involvement in the context of our sustainability values.

We have seen the scoring summarized in a simple letter format, in a slide presentation, and we have seen a more formal design piece that addressed each set of criteria, so the format of how you share the information with the Sustainability Commission is up to you.

The group meets the first Monday of each month, at 6:30 p.m. at City Hall. We would be happy to coordinate a date with you, based on the progress of your project and when your schedule allows.

Emily Randel, assistant to the city administrator, can assist with questions at erandel@missionks.org or 913-676-8368.

Thank you very much,

Mission Sustainability Commission 6090 Woodson Road Mission, KS 66202



Project: Desidence on lot Creek Phose II

Expected completion: 2024 Ecoty 2025

Project Team: Sunthmed CT Design First

ber 2018)

Construction

Building Scorecard (Revised December 2018)

Please complete all sections that are applicable to this project. Check any boxes for areas that

ch section; though these will ission Sustainability Commis:	be reviewed and a final score sion. Additional explanations	e determination will be made by and clarifications for each item				
		ations? Include rating details.				
Site Development, Land Use a. Pre-design site assessment d. Landscape irrigation g. Site waste management j. Changing/ shower facilities m. Bus access	e, Location and Transportatio b. Preserve natural resources e. Manage plants/ vegetation h. Walking/ bicycle paths k. Carpool/ car share n. Heat island mitigation	on Impact c. Manage storm water f. Manage soils/ erosion control ii. Bicycle storage ii. EV charging o. Reduce light pollution				
□ a. Reuse existing building□ c. Construction waste management	 □ a. Reuse existing building □ c. Construction material management □ c. Construction waste management □ d. Sustainable/ local materials 					
Energy Conservation, Efficie a. Energy Modeling d. Automated demand response g. Electrical/ lighting systems j. Refrigerant management	ency, and CO _{2e} Emission Redu b. CO ₂ e modeling c. Building envelope/ insulation h. Appliances/ equipment c. k. Control air pollution	c. Energy metering/ monitoring				
	ch section; though these will ission Sustainability Commisse found in the building scored Will this project pursue any Site Development, Land Use A. Pre-design site assessment J. Changing/ shower facilities m. Bus access Materials and Resource Use a. Reuse existing building c. Construction waste management J. Changing/ shower facilities me. Occupant waste management D. W. W. W. Certain waste management D. W. W. W. Certain waste management waste management D. W. W. W. Certain waste management waste management D. W.	### d. Landscape irrigation				

□ d. HVAC water use	øb. Fixtures/ fittings□ e. Water treatment devices	f. Reduce irrigation
□ g. Rainwater	□ h. Graywater	
		Points scored - 13 out of 20
6. Indoor Environmenta a. IAQ management plan d. IAQ during construction g. Material emissions co j. Accessibility/ Commun	n	ළ c. Increase ventilation া f. Indoor pollutant control ্ৰা. Daylighting/ views
Veg simla t LEED silver o	ed those 1. Include pollblont and we will work to miti	s are a big port of gets.
7. Commissioning, Ope 2 a. Inspections 2 d. Building controls systems	erations, and Maintenance □ b. Mechanical commissioning ems □ e. O+M documentation	Points scored out of 10 c. Energy commissioning f. Maintenance staff training
		Points scored - 5 out of 1
8. Additional Comment	ts le attributes that will be incorporated in th	nis project.
Any additional sustainab		
Any additional sustainab		
Any additional sustainab	Bonus Po	ints (if applicable, 5 maximum)
tal Points Scored - 63		



City of Mission, Kansas Sustainability Commission Building Scorecard – Supplemental Document

This scorecard is a way to encourage projects to consider sustainability throughout the entire lifecycle of a building. It is designed with the 2015 International Green Construction Code (IgCC) in mind, and is meant to reward voluntary efforts to make projects more sustainable than currently required. It is a project of the Mission Sustainability Commission, an advisory body to the City Council that aims to be a good steward of natural resources, make Mission, Kansas a desirable community, be advisors to the City Council, and increase visibility of sustainability in our community. This supplemental document provides some definitions and further explanation related to the Mission Sustainability Commission Building Scorecard. The scorecard is intended for developers, architects, builders, building owners, tenants, or anyone wishing to be more sustainable. This scorecard can be a helpful guide for anyone pursuing new construction, renovation, or upgrading a few light bulbs.

Although this can be a helpful resource, it is not intended to be an all-inclusive guide. Please see the additional resources section at the end of this document for links to further information.

How to Complete the Scorecard

We encourage users to check all boxes applicable to the project. The goal is to reward buildings that surpass minimum building code requirements and incorporate sustainability. In the commentary section, include a description of the features/strategies, and whether they fall short, meet, or exceed code requirements. If the project includes any attributes that are not included in this scorecard, describe them in detail in the additional comments section.

1. Sustainable Building Certifications

Note if this project is pursuing any sustainable rating including IgCC, LEED, WELL, ASHRAE 189.1, Green Globes, EnergyStar Building, ICC-700, etc. Include details of which rating system and the level/score the building will achieve. See additional resources at the end of this document.

2. Site Development, Land Use, and Location, and Transportation Impact

Each building should consider how its location, natural geography, and occupant access are encouraging sustainability. Additional details on many of the items are available in the most current International Green Construction Code.

- a. Pre-design site assessment Projects could take an inventory of the building site baseline conditions including areas to protect, native plants/ trees, invasive species, terrain/ topography, hazard areas, storm water hydrology, and site features to be preserved. Make a plan to minimize the negative effects of altering the site.
- b. Preserve natural resources Any site near flood hazard areas, surface water bodies, wetlands, conservation areas, parklands, agricultural land, or previously undeveloped land, could limit the disturbance of these natural resources. In the comments, please explain what natural resource is present, and how this project aims to preserve that portion of the site.

- c. Manage storm water Projects could consider how this project will address the increased/redirected runoff and water contaminants like coal tar. The project could identify a water management system for rain events, snowmelt, etc.
- d. Landscape irrigation To reduce potable water use, projects could limit the amount of irrigation required for site landscaping. This can be accomplished by using native plants which require less watering, and designing a more efficient irrigation system. Irrigation systems could be installed to aim away from building/ pavement, create less overspray, incorporate smart controls/ sensors, group plants of similar water needs, include pressure regulators, and include efficient nozzles. Decorative fountains and water features should be designed to limit water usage by recirculating, treating, and limiting evaporation of water. Creative solutions may involve using collected rainwater for site water use.
- e. Manage plants/ vegetation Projects should preserve existing vegetation, protect trees, eliminate invasive species, and landscape with native plants. Plants depend on good soil, therefore managing soils goes hand-in-hand with managing vegetation.
- f. Manage soils/ erosion control Projects should protect the topsoil, limit importing soil, prepare and restore the soil nutrients, and stabilize the earth to prevent erosion. Erosion could occur during construction and throughout the lifecycle of the building. Go beyond the standard erosion control requirements.
- g. Site waste management Projects should avoid depositing site waste, such as land clearing debris, vegetation, or previous hardscape materials from the site into the land fill. Waste could be diverted from the traditional waste stream by reusing, recycling, composting, or upcycling. In the comments, describe any site waste that will be removed for this project and where it willgo.
- h. Walking/ bicycle paths Projects could incorporate paved walkways and bicycle paths to encourage pedestrian and bicycle access to existing paths/ infrastructure. IgCC requires at least one independent path for bicycles, strollers, pedestrians and other non-motorized locomotion connected to a building entrance and a street or existing walkway/ bicycle path. Include a description or site plan showing the location of the paths.
- Bicycle storage Projects could provide long-term and short-term bicycle storage with adequate accessibility, lighting, space, and location near a building entrance. Describe the location and number of spaces of bicycle storage provided for this building.
- j. Changing/ shower facilities If building occupants have access to a changing/ shower facility, this could encourage pedestrian and bicycle commuting.
- k. Carpool/ car share To decrease energy use of accessing a building or commuting, the site could encourage carpooling or car sharing through methods like parking spaces reserved for high occupancy vehicles. Companies such as Zipcar or CarToGo provide occupants an opportunity to borrow a car.

- I. Electric Vehicles Projects could provide preferred parking and/or charging stations for low-emission, hybrid, and electric vehicles.
- m. Bus access Projects could encourage building occupants to access bus transit by locating the nearest bus stops and providing convenient pathways to encourage people to use the bus and alternative transportation.
- n. Heat island mitigation Temperatures can be significantly warmer in cities than in surrounding rural areas due to the heat island effect. To reduce the heat island effect, a building could consider hardscape materials, light reflectance, shading by structures, shading by trees, pervious pavement, solar reflective roof coverings, and vegetative roofs.
- Reduce light pollution Exterior lighting could be designed or installed to limit up-light, light trespass, and glare. Solutions include proper fixture selection, efficient layout, and automated controls. Consider reducing lighting of facades and areas beyond the site boundary.

3. Material And Resource Use

Building materials should be sustainable. Conserving material resources involves material selection, recycling, reuse, renewability, limiting toxicity, and durability, including resistance to damage caused by moisture. Consider the life cycle of materials, transportation, and waste material.

- Reuse existing building It is beneficial to reuse existing buildings to limit demolition waste.
 Buildings can be reused in total, or materials can be reused on new projects.
- b. Construction material management Most products have specific instructions for storage and handling. Instructions generally include moisture control, temperature regulations, and stacking instructions. Care should be taken to not let products be damaged in order to prevent wasting materials and reduce the chance of mold growth.
- c. Construction waste management Projects could develop a construction material and waste management plan to recycle or salvage construction materials and waste.
- d. Sustainable/local materials Projects could select materials that are sustainable and local. In addition, materials should be free from harmful chemicals such as lead, cadmium, and mercury. Material selection could include used/ reclaimed materials or content that is recycled, recyclable, bio-based, sustainably sourced, rapidly renewable, or indigenous. Alternatively, projects could undertake whole building life cycle assessments or provide environmental product declarations.
- e. Occupant waste management/ recycling/ composting Recycling areas could be provided for occupants after the building is completed. Describe the services offered, location of collection areas, and signage.

4. Energy Conservation, Efficiency and CO₂e Emission Reduction

Energy and atmosphere are perhaps the most common items considered in sustainability. There are many building attributes that work together to achieve energy efficiency. The items below should all be considered to reduce energy consumption, install efficient systems, and utilize renewable energy when possible. Consult the International Green Construction Codes for additional specific information for these items.

- a. Energy modeling Energy modeling uses computerized calculations to predict the energy consumption of a building due to a wide variety of inputs. International Green Construction Codes require a zero energy performance index (zEPI) of 50 or less. The IgCC provides a calculation which compares the proposed performance to a baseline building.
- b. CO_2e modeling Equivalent carbon dioxide (CO_2e) emissions can be modeled in a similar way as energy modeling, by adding the type of energy sources used for a building.
- c. Energy metering/ monitoring To identify where energy is used in a building, it is helpful to install energy meters and sub-meters. These can be used to monitor and efficiently operate loads from many different building systems. By continuously monitoring and reporting, energy meters can identify areas or systems of the building that are operating improperly or inefficiently. By performing simple maintenance, buildings can save money on utility bills. Describe any efforts the project uses to track electric power, gas, liquid and solid fuels as well as heating and cooling as applicable.
- d. Automated demand response Utilities can operate more efficiently if buildings offer to shed energy on peak load days. Enrolling in an automated demand response allows the utility to shift building energy usage to another time to limit additional energy production needed at peak times.
- e. Building envelope/insulation To conserve energy related to heating and cooling a building, the building façade and insulation should be considered. Shading combines with the insulation performance of all exterior elements (walls, roof, windows, etc.) to create a building envelope. Projects also could seal all windows and doors, and prevent air leakage for the entire building.
- f. Mechanical systems Heating ventilation and air conditioning (HVAC) systems are often the largest consumers of energy in any building. There are many types of HVAC systems, some are more efficient than others depending on the building location and usage. There are federal standards for energy efficiency detailed in the International Energy Conservation Code (IECC).
- g. Electrical/lighting systems Many strategies exist to reduce the energy used by electrical and lighting systems. Daylight can be used to reduce required lighting during the day. Controls systems and occupancy sensors can turn off interior and exterior lights when they are not required. It is also important to consider all of the electrical plug loads, and what can be done to reduce energy from appliances plugged into electrical outlets.

- Appliances/ equipment There are federal requirements for energy efficiency in many appliances.
 In addition to these federal requirements, ENERGY STAR labelled appliances can reduce overall energy use.
- i. Onsite renewable energy Another way to reduce utility energy is to install renewable energy systems on the project site like solar or wind energy.
- j. Refrigerant management Refrigerants can be detrimental to human health and the atmosphere if they are not used or disposed of properly. It is illegal to use CFCs and HFCs are also bad for the environment. When possible, select natural refrigerants such as water or propane to reduce atmospheric damage. Also, any existing refrigerants should be disposed of properly.
- k. Control air pollution Buildings can pollute the air directly or indirectly by using energy from utilities burning fossil fuels. Buildings should consider reducing air pollution or planting trees to offset releasing CO₂ into the atmosphere.

5. Water Resource Conservation, and Efficiency

Water is a limited resource, and it should be conserved and protected in all buildings. Potable water (suitable for drinking) is a precious commodity that humans require. Items in this section are strategies to decrease water use and increase water quality. Check the International Green Construction Codes for specific examples.

- a. Water metering Water meters track the water usage of a project. If alternative water sources are used (i.e. reclaimed water, well water, or other potable water) each water source could be metered individually. Metering can identify any abnormal conditions in order to correct and prevent wasting water. Water sub-meters can be helpful when there are multiple tenants or pieces of equipment that consume large quantities of water.
- b. Fixtures/ fittings Installing water efficient fixtures can significantly reduce building water consumption. Some fixtures have a WATER SENSE label which is similar to ENERGY STAR for energy efficiency. To reduce water use, consider maximum flow rates for all water fixtures within a building (lavatory, kitchen, drinking fountains, etc.). In addition, automatic or metered fixtures can save water by preventing a fixture from remaining on when not in use.
- c. Appliances/ equipment Many appliances in a building may require a water connection. Projects could consider maximum flow rates for clothes washers, icemakers, steam cookers, and dishwashers. Plumbing design and equipment layout could also focus on conserving water.
- d. HVAC water use The building HVAC system can consume large amounts of water if not designed and installed properly. Any equipment that uses water including condensate drainage, humidification systems, hydronic loops, heat exchangers, and cooling towers should have protections in place to reduce water usage. In addition to reducing water, the HVAC system should maintain good water quality in all systems.

- e. Water treatment devices Any water treatment device should limit the amount of wastedwater. Check green building codes for specific requirements for water softeners, reverse-osmosis water treatment systems, and onsite reclaimed water treatment systems.
- f. Reduce irrigation Selecting vegetation and plants that require less irrigation helps to reduce the overall water usage for the entire project. If irrigation is required, ensure that the system is operated efficiently by only watering the necessary areas, and watering at an efficient time of day to reduce evaporation.
- g. Rainwater Collecting rainwater is a strategy to reduce municipal potable water use. Be sure to follow requirements in building codes for storing water and preventing water borne diseases.
- h. Graywater Graywater is water that has been used once and is no longer potable (i.e. waterfrom hand washing sinks), however it may be reclaimed and used for non-potable water requirements (such as irrigation). Reusing graywater is another strategy to reduce overall water usage.

6. Indoor Environmental Quality and Comfort

Human comfort and quality of life has a direct impact on productivity and health. It is important to remember the building occupants for a truly sustainable project. The items below can help create a better interior environment for the building occupants. International Green Construction Codes can provide specific guidance.

- a. Indoor air quality (IAQ) management plan Managing the indoor air quality inside a building starts during construction and continues into occupancy. It is important to have a plan in place before the project begins.
- b. Air handling filtration All air handling equipment should have sufficient filters to clean the air supplied to occupied spaces.
- c. Increase ventilation Indoor air quality can be improved by providing more fresh air to occupied spaces. IgCC requires projects to provide either natural ventilation (operable windows) or increased mechanical ventilation in excess of building code requirements.
- d. Indoor air quality (IAQ) during construction During construction it is important to protect the building and HVAC system from collecting dust and contaminants. It is also important to store construction materials in a responsible way to reduce mold. Check green construction codes for specific ways to do this.
- e. Thermal comfort Human productivity and comfort are affected by humidity and temperature within a space. It is important to provide a comfortable thermal environment and controls for occupants to be comfortable. IgCC requires compliance with ASHRAE 55.

- f. Indoor pollutant control Everyday products can contain many indoor pollutants. Projects should decrease the use of harmful indoor pollutants and locate pollutant sources in enclosed rooms, away from building occupants. Pollutant sources can include printers, copiers, and janitorial rooms.
- g. Material emissions control Choosing materials with low emissions can improve the indoor air quality. Volatile organic compounds are common in many building materials. Check green building codes for prohibitions and limits on volatile organic compounds in composite wood, adhesives, sealants, paints, flooring, and insulation.
- h. Acoustics Another factor that contributes to indoor environmental quality is sound. Productivity depends on good speech communication and limiting distracting noises. Projects could consider sound transmission, mechanical system noise, structure borne sound, and sound absorbing room surfaces.
- Daylighting/ views Occupants benefit from natural sunlight and being able to see outdoors.
 Consider access to windows or glazing that allow views for as many occupants as possible.
- j. Accessibility/ community for all ages Consider all people that may be occupants of your project site and building. Projects could also consider how they contribute to the Mid-America Regional Council's Communities for All Ages initiative. City of Mission participates in this program.

7. Commissioning, Operations, and Maintenance

It is important to check building systems to ensure they are working efficiently. Commissioning is a process to verify that all building systems are operating as intended. To maintain efficiency throughout the lifecycle of the building it is important to perform routine maintenance and ensure the building is operating properly.

- a. Inspections An independent commissioning agent can verify that all systems were installed correctly and meet the project requirements in all of the sections above. Consider a special inspection and commissioning report by an approved agency before building occupancy.
- b. Mechanical system commissioning Commissioning can be considered "fine-tuning" to ensure the building HVAC system is functioning at peak efficiency. Mechanical systems commissioning includes measuring the occupied spaces and each piece of mechanical equipment to verify proper operation. Check green construction codes for a list of mechanical items that could be commissioned.
- c. Energy system commissioning Similar to mechanical system commissioning above, energy system commissioning ensures that electrical generation and distribution systems are operating properly to ensure energy efficiency.

- d. Building controls systems Automated control systems can be a great benefit to controlling equipment and operating a building efficiently. However, they must be checked to ensure they are programed and installed correctly, or the outcome may be negative.
- e. Operations and maintenance (O+M) documentation/ schedule It is important for the owner or project manager to have access to important information related to operations and maintenance to keep the building functioning efficiently. Green construction codes require a user manual for each building system, and record documents be provided to the owner.
- f. Maintenance staff training The maintenance staff can be a huge factor in whether a project achieves its sustainability goals or not. Consider maintenance documentation to help the staffkeep the project operating properly.

8. Additional Comments

This section is meant to address any sustainable building elements that do not fit neatly into the categories above. Please describe any items this project incorporates that contribute to a more sustainable community. This could include description of the design team and integrative process, building orientation decisions, community gardens, access to local food/ farmers, markets, increased durability, reduced maintenance, incorporating open outdoor space, occupant sustainability training/ education, increased occupant comfort, carbon monoxide alarms in every space, community engagement, or involvement with programs such as Community for All Ages, Walk/Bike/Ride KC, or Smart Growth. But don't feel limited to those, either. Document anything that improves the economy, people of our community, and/or the natural environment.

This is your chance to highlight any sustainable attributes that this scorecard does not cover. Feel free to attach additional documentation or narratives to add further detail for any comments that do not fit in the comments section.

Green construction codes and other sustainable rating systems

International Green Construction Code (IgCC) 2015

The IgCC is the first model code to include sustainability measures for the entire construction project and its site — from design through construction, certificate of occupancy and beyond. The new code is expected to make buildings more efficient, reduce waste, and have a positive impact on health, safety and community welfare.

https://www.iccsafe.org/codes-tech-support/international-green-construction-code-igcc/international-green-construction-code/

Leadership in energy and environmental design (LEED)

LEED, or Leadership in Energy and Environmental Design, is the most widely used green building rating system in the world. Available for virtually all building, community and home project types, LEED provides a framework to create healthy, highly efficient and cost-saving green buildings. LEED certification is a globally recognized symbol of sustainability achievement. There are several different rating systems (Building Design and Construction, Interior Design and Construction, Building Operations and Maintenance, Neighborhood Development, and Homes). Projects can achieve awards of certified, silver, gold, or platinum based on meeting prerequisites and a certain number of credits in each rating system.

https://new.usgbc.org/leed

ENERGY STAR Buildings

ENERGY STAR is the simple choice for saving energy in buildings and plants. Buildings receive a percentile score from 1 to 100 based on energy usage compared to similar buildings across the country. To be eligible for ENERGY STAR certification, a building must earn an ENERGY STAR score of 75 or higher, indicating that it performs better than at least 75 percent of similar buildings nationwide.

https://www.energystar.gov/buildings

Green Globes

Green Globes offers a different approach: one that provides in-depth support for improvements ideally suited to each project. Building owners and facility managers know their buildings and operations better than anyone else. We respect and leverage that knowledge with personalized assistance to produce best practices in sustainable design, construction and operations. Incorporating third-party assessors available throughout the certification process, we forge a partnership that allows experienced green building project teams to shine and reduces the learning curve for those new to green building. The building gets a rating from 1 to 4 globes. https://www.thegbi.org/green-globes-certification/

ASHRAE 189.1

ASHRAE is the American Society for Heating Refrigeration and Air Conditioning Engineers. Standard 189.1 provides total building sustainability guidance for designing, building, and operating high-performance green buildings. From site location to energy use to recycling, this standard sets the foundation for green buildings by addressing site sustainability, water use efficiency, energy efficiency, indoor environmental quality (IEQ), and the building's impact on the atmosphere, materials and resources. Standard 189.1 is a compliance option of the International Green Construction CodeTM (IgCC).

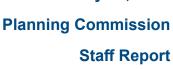
https://www.ashrae.org/resources--publications/bookstore/standard-189-1

ICC/ASHRAE 700-2015

The ICC/ASHRAE 700-2015 National Green Building Standard™ (NGBS) is the first residential green building standard to undergo the full consensus process and receive approval from the American National Standards Institute (ANSI). A residential building can achieve bronze, silver, gold, or emerald rating.

https://www.nahb.org/en/research/nahb-priorities/green-building-remodeling-and-development/icc-700-national-green-building-standard.aspx

		R





AT A GLANCE

Applicant: City of Mission

Location: 6090 Woodson Street, Mission, KS

Property ID: N/A

Current Zoning: N/A

Proposed Zoning: N/A

Current Land Use: N/A

Proposed Land Use: N/A

X Public Hearing Required
Legal Notice:
July 4, 2023

Case Number: 23-14

Project Name: Tobacco Retail Ordinance

Project Summary:

An ordinance providing for a new ordinance for Article IV, Chapter 415 of the Municipal Code for the City of Mission, Kansas to require tobacco retailers and electronic cigarette retail establishments to comply with a distance requirement in certain zoning districts.

Staff Contact: Karie Kneller, City Planner



(Citywide Context)



BACKGROUND INFORMATION

The Mid-America Regional Council's (MARC) Community for All Ages program that Mission has adopted is an integral aspect of Mission's culture that residents have identified as a priority Community for All Ages criteria are woven throughout the final draft of the updated Comprehensive Plan. The program applies to all aspects of integrated health in planning and development policy. Policies and regulations that address these issues build a healthy and resilient community for residents of all ages.

Since October 2022, the City Council has discussed issues related to potential revisions to Mission's zoning code as it pertains to retailers selling tobacco, electronic cigarettes, or electronic cigarette paraphernalia. To provide sufficient time for review and discussion, on March 15, 2023, the City adopted an ordinance of a 150-day moratorium on all new business Icenses for establishments that sell tobacco, electronic cigarettes, and/or electronic cigarette paraphernalia in Mission. The moratorium expires on August 21, 2023.

Staff has been analyzing the impact of restrictions to permitting these type of retail establishments in certain buffer zones around parks, churches, schools, and existing tobacco retailers, as shown in the map as part of the hearing packet (Figure 1). Current zoning regulations permit tobacco retailers in the following zones: MS-1, MS-2, C-1 (CP-1), C-2 (CP-2), and MXD.

Throughout Mission, there are eight existing tobacco retailers. There are 222* parcels that are zoned to permit tobacco retailers, which are broken down by district in the following table:

Zoning District	Number of Parcels
MS-2	101
MS-1	76
MXD	15
C-2	10
C-1	9
CP-2	5
CP-1	5

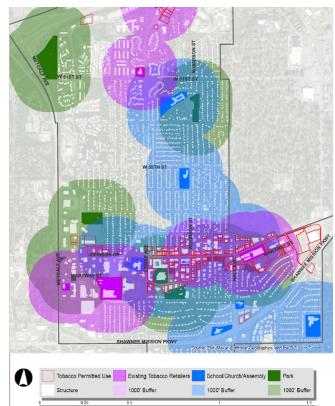


Figure 1

^{*34} parcels are established rights-of-way not appropriate for development.



In April 2023, the Finance & Administration Committee directed staff to explore expanded buffer zones around certain land uses, to review potential impacts new legislation might have on marijuana/marijuana paraphernalia sales if legalized in Kansas, and potentially prohibiting tobacco/e-cigarette sales in any Mixed-Use (MXD) zoning district. In May 2023, Council directed staff to move forward with an ordinance to effect changes to Mission's zoning code.

PROPOSAL

Under City Council direction, staff requests that the Planning Commission consider an ordinance to restrict tobacco retailers from acquiring a business license or operating a business which sells tobacco products within a 1000-foot buffer of a property used or zoned for a park, church, school, or an existing tobacco retail establishment. The ordinance defines the terms "electronic cigarette," "electronic cigarette retail establishment," "tobacco," "tobacco products," and "tobacco retailer." Further, the ordinance makes an exception for established tobacco retailers, with the stipulation that if the establishment abandons or discontinues operations, future tobacco retailers at that location would be held to the stipulations of the distance requirements. The mere change of ownership of a continuous occupancy and use of a property as a tobacco retailer would not be subject to the distance requirement.

Analysis:

The ordinance would establish the 1000-foot buffer to protect the health, safety, and welfare of its youth by limiting the access, exposure, and marketing of smoking to under-age children. This ordinance does not prohibit outright the establishment of new tobacco retailers in Mission. Within the existing MXD-zoned properties at the southeast corner of Roeland Drive and Johnson Drive, as well as the property at the southwest corner of Shawnee Mission Parkway and Roeland Drive that is zoned C-1, tobacco retailers would not be excluded by the 1000-foot buffer. The ordinance is exclusive at this time to tobacco retailers, and does not include prohibition of tobacco products in MXD zones or restrictions for marijuana retailers at this time.

RECOMMENDATION

Staff recommends that the Planning Commission vote to recommend to the City Council approval of Case #23-14, the proposed ordinance pertaining to retail tobacco establishments.





PLANNING COMMISION ACTION

The Planning Commission will consider Case #23-14 at a public hearing on July 24, 2023.

CITY COUNCIL ACTION

The City Council will consider Case #23-14 at a public hearing on August 16, 2023.

CITY OF MISSION

ORDINANCE NO.

AN ORDINANCE PROVIDING FOR A NEW ARTICLE IV TO CHAPTER 415 OF THE MUNICIPAL CODE OF THE CITY OF MISSION, KANSAS TO REQUIRE TOBACCO RETAILERS AND ELECTRONIC CIGARETTE RETAIL ESTABLISHMENTS TO COMPLY WITH A DISTANCE REQUIREMENT IN CERTAIN ZONING DISTRICTS.

WHEREAS, the Governing Body of the City of Mission deems it to be in the best interests of the health, safety and welfare of its youth to limit the access and exposure of under-age children to retail stores that sell tobacco and electronic cigarette items and marketing by imposing a distance restriction for such establishments.

NOW THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF MISSION, KANSAS:

PARAGRAPH 1. That Title IV, Chapter 415 of The Municipal Code of the City of Mission, Kansas is hereby amended to add a new Article IV, Tobacco Retailers and Electronic Cigarette Retail Establishments, to read as follows:

Article IV, Tobacco Retailers and Electronic Cigarette Retail Establishments.

Section 415.140 Application.

The provisions of this Article shall apply to all zoning districts within the City of Mission.

Section 415.150 Definitions.

- A. "Electronic Cigarette" means a battery-powered device, whether or not such device is shaped like a cigarette, which can provide inhaled doses of nicotine by delivering a vaporized solution by means of cartridges or other chemical delivery systems.
- B. "Electronic Cigarette Retail Establishment" means a retail establishment that derives at least 50% of such establishment's revenue from Electronic Cigarettes and Electronic Cigarette products or a retail establishment that holds itself out or advertises itself primarily as an electronic cigarette retail establishment.
- C. "Tobacco" means plants of the nightshade family with high levels of nicotine.
- D. "Tobacco Products" means cigarettes, cigars, cheroots, stogies,

periques; granulated, plug cut, crimp cut, ready rubbed and other smoking tobacco; snuff, snuff flour; cavendish; plug and twist tobacco; fine cut and other chewing tobaccos; shorts; refuse scraps, clippings, cuttings and sweepings of tobacco, and other kinds and forms of tobacco, prepared in such manner as to be suitable for chewing or smoking in a pipe or otherwise, or both for chewing and smoking.

E. "Tobacco Retailer" means any person who sells, offers for sale, or exchanges or offers to exchange for any form of consideration, tobacco products. This definition is without regard to the quantity of tobacco products sold, offered for sale, exchanged, or offered for exchange.

Section 415.160 Distance Requirements.

- A. No Tobacco Retailer or Electronic Cigarette Retail Establishment shall be located within 1,000 feet of any other Tobacco Retailer or Electronic Cigarette Retail Establishment within Mission City Limits or outside City Limits, or within 1,000 feet of any property used or zoned for parks, school, college, or church. The separation distances shall be measured from or to the outer wall of the Tobacco Retailer or Electronic Cigarette Retail Establishment to the property line of the property containing the park, school, college or church.
 - 1. Exception: If such park, school, college or church is established within 1,000 feet of any Tobacco Retailer or Electronic Cigarette Retail Establishment after the premises has been licensed for such, the premises shall remain an eligible location for said licensing as long as the premises remains in compliance with subsection B below.
- B. In the event any Tobacco Retailer or Electronic Cigarette Retail Establishment abandons or discontinues as a Tobacco Retailer or an Electronic Cigarette Retail Establishment in operation prior to the effective date of this Ordinance, any future Tobacco Retailer or Electronic Cigarette Retail Establishment operated at the same location shall be required to comply with the distance requirements set forth in this Section. This provision shall not apply to a change in ownership which may occur by operation of law, including a court order, divorce, death, mortgage foreclosure, bankruptcy or transfer by contract, provided there is a continuous occupancy or operation of the Tobacco Retailer or Electronic Cigarette Retail Establishment at the licensed location.
- C. Each Tobacco Retailer or Electronic Cigarette Retail Establishment shall retain the records of purchases and sales for a period of one year. These records are subject to inspection by the City and shall be provided within a reasonable time upon request. The records may be in electronic or paper format. If electronic, the records must be available to print upon request

by the City.

PARAGRAPH 2. Severability. If any one or more sections, subsections or other part of this Ordinance shall be declared invalid by a court of competent jurisdiction, it is the intent of the City that the remaining portions of the Ordinance shall remain effective. The City states that it would have enacted such remaining portions irrespective of the fact that one or more sections, subsections, or other part of the Ordinance have been held invalid.

PARAGRAPH 3. This Ordinance shall be in full force and effect from and after its passage and publication as provided by law.

City of Mission	Item Number:	10a.
ACTION ITEM SUMMARY	Date:	March 15, 2023
Administration	From:	Laura Smith

Action items require a vote to recommend the item to full City Council for further action.

RE: Ordinance Establishing a Temporary Moratorium on all New Business Licenses for Establishments that Sell Tobacco, Eletronic Cigarettes and/or Electronic Cigarette Paraphernalia in the City of Mission

RECOMMENDATION: Approve the Ordinance establishing a temporary moratorium on all new business licenses for establishments that sell tobacco, electronic cigarettes and/or electronic cigarettr paraphernalia for a period of one hundred fifty (150) days.

DET AILS: Since October 2022, the Council has been discussing issues related to Mission's zoning code regulations for retailers selling tobacco, electronic cigarettes, or electronic cigarette paraphernalia. Most recently the issue was discussed during the February 1 Finance & Administration Committee meeting where additional direction was given to staff to continue to researach options and alternatives to bring back to the Council.

Recognizing the Council's interest in a thorough review and evaluation of Mission's regulations for establishments selling tobacco, electronic cigarettes, or electronic cigarette paraphernalia staff is recommending Council establish a temporary moratorium on the issuance of new business licenses for establishments selling the same. In order to appropriately study the issue, and to ensure time for any contemplated changes to the zoning regulations to be heard and considered, Staff is recommending the moratorium be imposed for a period of one hundred fifty (150) days. No application for a new business license for such establishment will be considered or processed until the expiration of the Temporary Moratorium Period.

CFAA CONSIDERATIONS/IMPACTS: The Communities for All Ages program suggests that residents are interested in healthy, vibrant communities. This is often related to walkable communities, but applies to all aspects of integrating health into planning and development policy. Discussing policies and regulations such as this can signal to residents a community's willingness to review and consider all aspects of building a healthy and resilient community for residents of all ages.

Related Statute/City Ordinance:	
Line Item Code/Description:	
Available Budget:	

City of Mission	Item Number:	11.
DISCUSSION ITEM SUMMARY	Date:	May 3, 2023
Administration	From:	Laura Smith

Discussion items allow the committee the opportunity to freely discuss the issue at hand.

RE: Regulations for Tobacco and Electronic Cigaretter Retailers

DETAILS: Since October 2022, the Council has been discussing issues related to potential revisions to Mission's zoning code as it relates to retailers selling tobacco, electronic cigarettes, or electronic cigarette paraphernalia. At the April 12, 2023 Finance & Administration Committee meeting staff was directed to continue to explore expanded buffer zones, to review the potential impacts any proposed legislation might have on marijuana/marijuana paraphernalia sales should it be legalized by the Kansas Legislature, and the potential for speficially prohitibing tobacco/e-cigarette sales in any Mixed-Use (MXD) zoning district.

The materials included in this action item and the packet respond to that discussion and Staff is hopeful that final direction can be secured to move to the next step in the process. While the temporary 150 day moratorium does not expire until August 21, 2023, staff would like to move foward through this multi-step process as soon as possible. The map included in the packet illustrates a 1000' buffer surrounding the following:

- Existing tobacco retailers
- Schools/Churches/Other Assembly Places
- Parks

Council will note that a buffer of this size covers all parcels whose current zoning (MS-1, MS-2 and C-1) would allow for tobacco/electronic cigarette sales with the exception of portions of the Gateway site (zoned MXD) and the Bank of America property located at Shawnee Mission Parkway and Roeland Drive. During the April Committee meeting there was also some interest expressed about potentially revising the definition of allowable uses within a Mixed-Use zoning district to speficially prohibit the sale of tobacco/e-cigarettes. Staff would recommend the following next steps if Council is ready to advance a recommendation forward to begin the process for making amendments to Mission's Zoning Code:

- Prepare a draft ordinance establishing the 1000' buffers as shown on the map
- Ensure ordinance language is crafted narrowly to ensure that marijuana retailers would not be included should the sale of marijuana (medical, recreational or both)

Related Statute/City Ordinance:	Chapter 405 Mission Municipal Code	
Line Item Code/Description:	NA	
Available Budget:	NA	

City of Mission	Item Number:	11.
DISCUSSION ITEM SUMMARY	Date:	May 3, 2023
Administration	From:	Laura Smith

Discussion items allow the committee the opportunity to freely discuss the issue at hand.

Staff would recommend that the discussion and decisions related to the sale of tobacco or electronic cigarettes in a Mixed-Use zoning district be included as part of the more comprehensive zoning code updates which are anticipated to get underway later this year. Since there are currently no functional retail spaces located in the MXD district, this will allow for any and all modifications to allowed or prohibited uses to be considered at one time.

CFAA IMPACTS/CONSIDERATIONS: The Communities for All Ages program suggests that residents are interested in healthy, vibrant communities. This is often related to walkable communities, but applies to all aspects of integrating health into planning and development policy. Discussing policies and regulations such as this can signal to residents a community's willingness to review and consider all aspects of building a healthy and resilient community for residents of all ages.

Related Statute/City Ordinance:	Chapter 405 Mission Municipal Code	
Line Item Code/Description:	NA	
Available Budget:	NA	





AT A GLANCE

Applicant:

City of Mission Parks + Recreation Department

Location:

5814 West 53rd Street

Property ID:

KP70000000 0001, KF251205-4039, KP62500000 0010, KP70000000 0001, KP70000000 0002, KP62500000 0009B, KP70000000 0008, KP70000000 0007

Current Zoning:

R-1

Proposed Zoning:

N/A

Current Land Use:

Park

Proposed Land Use:

Park

Public Hearing Required

Legal Notice:

N/A

Case Number:

23-15

Project Name:

Water Works Park Final Development Plan

Project Summary:

Proposed final development plan (FDP) for the redesign of the Water Works Park site. The Planning Commission recommended approval of the preliminary development plan (PDP) to the City Council on June 26, 2023, and the City Council approved the PDP on July 19, 2023.

Staff Contact:

Karie Kneller, City Planner







BACKGROUND AND PROPERTY INFORMATION

Water Works Park is located on 53rd Street just west of residential properties facing Outlook Street. The property is a four-acre site owned by WaterOne for a pump station facility, and in 1982 WaterOne leased the site to the City of Mission to operate the park facilities through the Parks and Recreation Department. The park is currently programmed with play equipment, trails, and a small shelter. The trail connects to Rushton Elementary, which is currently under construction, via a four-foot sidewalk. There is an unstriped parking lot for up to seven vehicles along 53rd Street. Restrooms are temporary portable facilities. WaterOne also owns several 24-inch water main and smaller transmission pipes under and adjacent to the property.

The project team provided modifications to the approved preliminary development plan that include feasible connection to the Rushton Elementary walkway, and storm water management design details that follow best management practices (BMPs) according to the American Public Works Association (APWA) and Mid-America Regional Council (MARC) guidelines. An updated landscaping plan that includes native species and consideration for adjacent neighboring properties for sun and shade is also included with the final development plan. The applicant requested information from the solar table manufacturer about potential for damage to the charging ports. The manufacturer stated that mud, sticks, or other debris placed in the ports would require that the USB port is replaced. The manufacturer did not anticipate ports would be a major effort to replace. The applicant also visited a site with the same type of musical play equipment located in a park to measure decibels on site. The play equipment did not exceed 60 decibels as measured directly next to the equipment. In R-1 districts, the regulation is that noise levels would not exceed 50 decibels at the property line. To reduce the possibility that noise exceeds the regulation, the equipment has been moved slightly further west from the property line and tall grasses are indicated as a buffer between the equipment and residential properties. Staff also received a letter and phone call from a Mission resident following the Planning Commission hearing that outlined many of the same concerns residents addressed in-person, adding that "we don't need parking for [fourteen] cars" and that the increase in parking amenities would encourage people outside of the community to use the public park.

Parks and Recreation Master Plan (2018)

As part of the preliminary development plan staff report, staff included The Parks + Recreation Mission Statement, which is, "to enrich the quality of life for residents of Mission and surrounding areas by fostering a strong sense of community and providing a variety of multi-generational activities that promote healthy lifestyles," with a Vision to "become the most integrated, connected and accessible parks and recreation system in northeast Johnson County."

It is staff's determination that the amenities, improvements, and inclusivity efforts at Water Works Park do adhere to the tenets of the Mission and Vision statements in the Master Plan.

Municipal Code

Consideration of Final Development Plans is outlined in the Mission Municipal Code at §440.190. A Final Development Plan which contains modifications from the approved Preliminary Development Plan but is in substantial compliance with the Preliminary Development Plan, may be approved by the Planning





RECOMMENDATION AND ACTIONS

Commission without a public hearing if the landscaping and screening plan is adequate as determined by the Commission.

Modifications are not significant and are in compliance with the municipal code. The applicant and design team considered Planning Commission, City Council, and public input in its final design.

Sustainability Commission

A member of the Sustainability Commission provided the design team with a scorecard that includes checked boxes for typical elements that a park may incorporate to increase sustainability. The design team commented on those elements and provided the ways the park would address those elements. That scorecard is part of the FDP packet and includes various elements related to natural resource preservation, heat island mitigation, bicycle storage and EV parking, materials, energy and water conservation methods, indoor air quality, and others.

Staff Recommendation

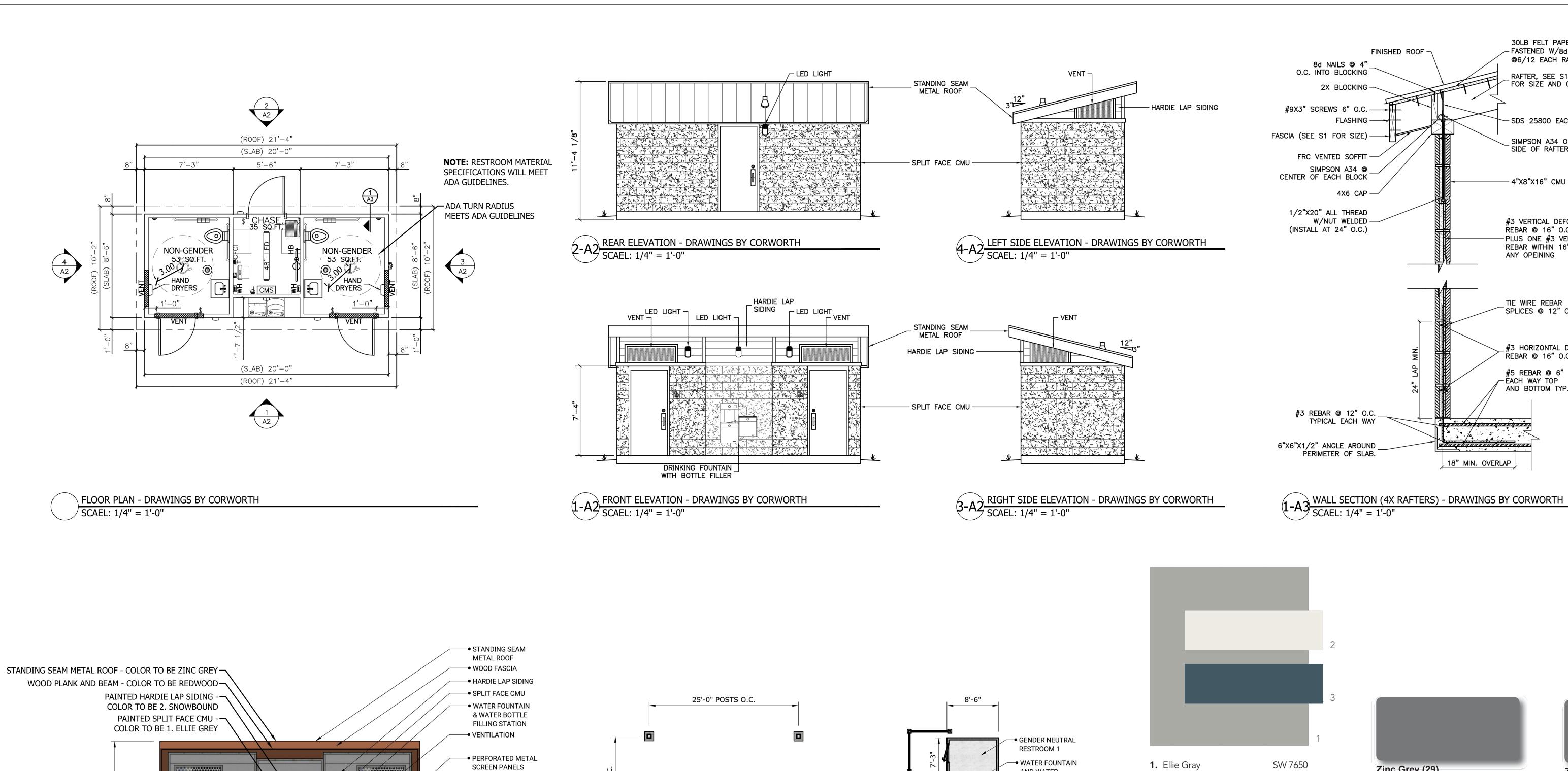
Staff recommends that the Planning Commission vote to approve the Final Development Plan for the redesign of Water Works Park.

Planning Commission Action

The Planning Commission will hear Case #23-15, Water Works Park Final Development Plan, at its regularly scheduled meeting on July 24, 2023.

City Council Action

No Action



PAINTED METAL POSTS -COLOR TO BE ZINC GREY

SCAEL: 1/4" = 1'-0"

\ RENDERED FRONT ELEVATION

RENDERED SIDE ELEVATION

SCAEL: 1/8" = 1'-0"

ORIGINAL SHEET - ARCH E1

16'-0"

PERFORATED METAL SCREEN PANEL - DESIGN TBD •

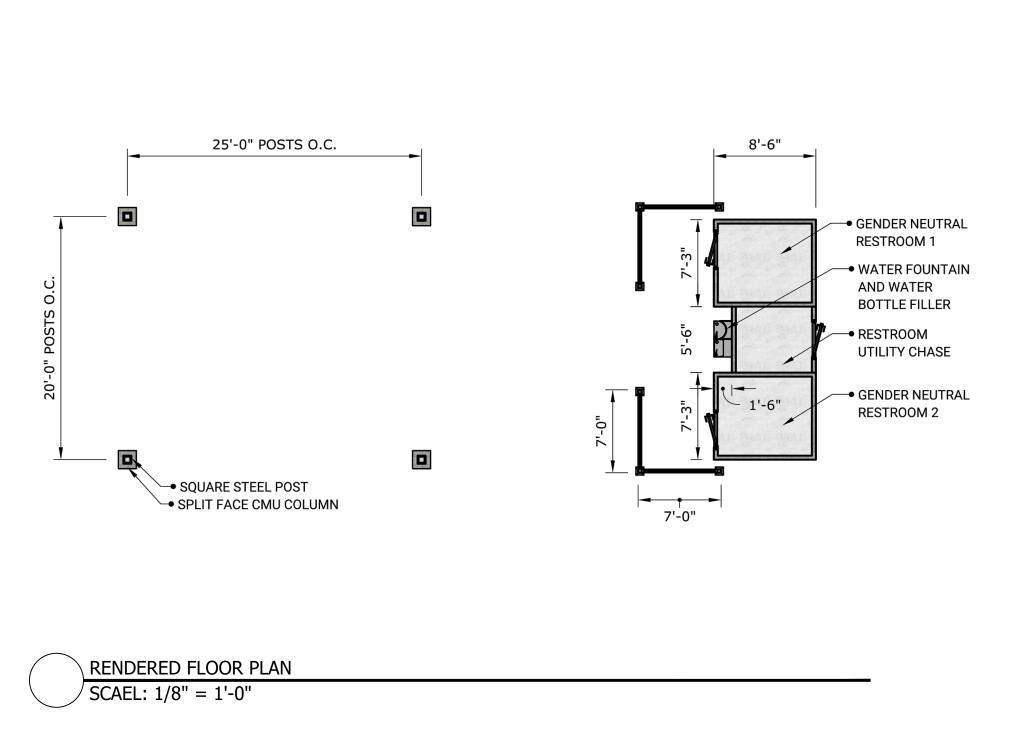
●SHELTER TO BE 750 SF WITH SLANTED ROOF.

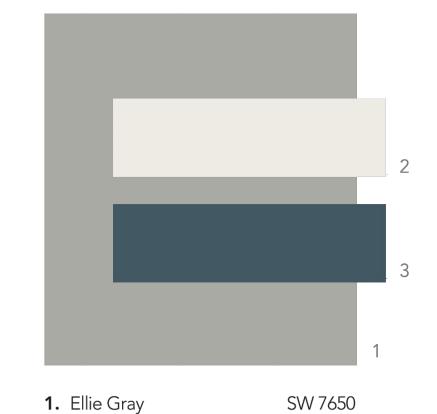
SHELTER TO BE ENLARGED TO 30'-0" X 25'-0".

RESTROOM TO HAVE 2 UNISEX BATHROOMS AND STORAGE ROOM.

RESTROOM TO BE CONDITIONED AND LOCKED FOR YEAR ROUND USE. •——

PAINTED METAL DOORS COLOR TO BE 3. SEAWORTHY





SW 7650 SW 7004 2. Snowbound SW 7620 **3.** Seaworthy

RESTROOM BUILDING COLORS

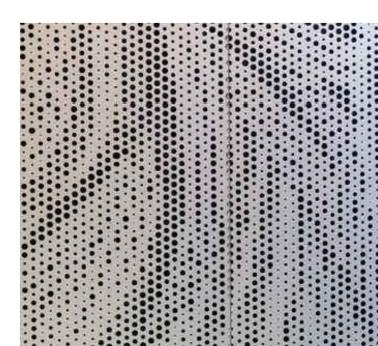
MANUFACTURER: SHERWIN WILLIAMS OR APPROVED EQUAL

COLOR: NUMBER CALLOUTS REFER TO ELEVATIONS LOCATION: RESTROOM



PAINTED HARDIE LAP SIDING

HARDIE LAP SIDING LOCATION:



PATTERNED LOCATION: RESTROOM SCREEN WALLS



SR = 0.41 | TE = 0.86 | SRI = 45

RESTROOM ROOF MATERIAL

MANUFACTURER: METAL SALES MFG CORP. OR APPROVED EQUAL WITH PVDF PAINT

STANDING SEAM METAL ROOF COLOR: ZINC GREY LOCATION: RESTROOM ROOF

Zinc Grey (29)

COLOR:

LOCATION:

SCREEN WALL POST MATERIAL

SR = 0.41 | TE = 0.86 | SRI = 45

MANUFACTURER: METAL SALES MFG CORP. OR

ZINC GREY

APPROVED EQUAL

POWDER COATED ALUMINUM

RESTROOM SCREEN WALL

30LB FELT PAPER OVER 3/4" OSB

- FASTENED W/8d NAILS

- SDS 25800 EACH RAFTER

_ SIMPSON A34 ON INTERIOR

@6/12 EACH RAFTER

RAFTER, SEE S1 FOR SIZE AND GRADE

SIDE OF RAFTER

- 4"X8"X16" CMU BLOCK

#3 VERTICAL DEFORMED

"REBAR @ 16" O.C. MIN.

- PLUS ONE #3 VERTICAL

REBAR WITHIN 16" OF

ANY OPEINING

TIE WIRE REBAR

__ SPLICES @ 12" O.C.

#3 HORIZONTAL DEFORMED

REBAR @ 16" O.C. MIN.

#5 REBAR @ 6" O.C.

FACH WAY TOP AND BOTTOM TYP.

18" MIN. OVERLAP

NUMBER CALLOUTS REFER TO ELEVATIONS RESTROOM WALLS



PERFORATED METAL

PERFORATED ALUMINUM



SPLIT FACE CMU MATERIAL: NUMBER CALLOUTS REFER TO ELEVATIONS LOCATION: RESTROOM WALLS



WOOD MATERIAL

DOUGLAS FIR MATERIAL: REDWOOD RESTROOM CEILING LOCATION:



Stantec 6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

www.stantec.com

Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

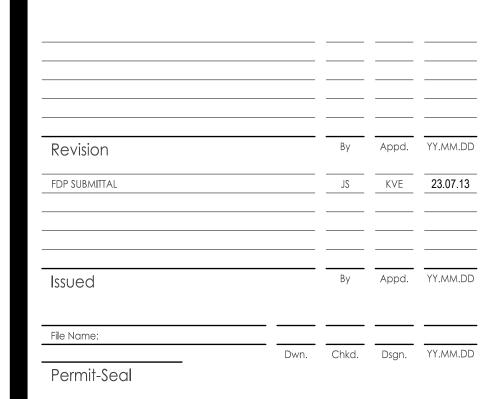
Consultants Civil Engineering

> Structural Engineering Stand Engineering

Wilson & Company

Signage Design Star Signs

Notes



Client/Project CITY OF MISSION

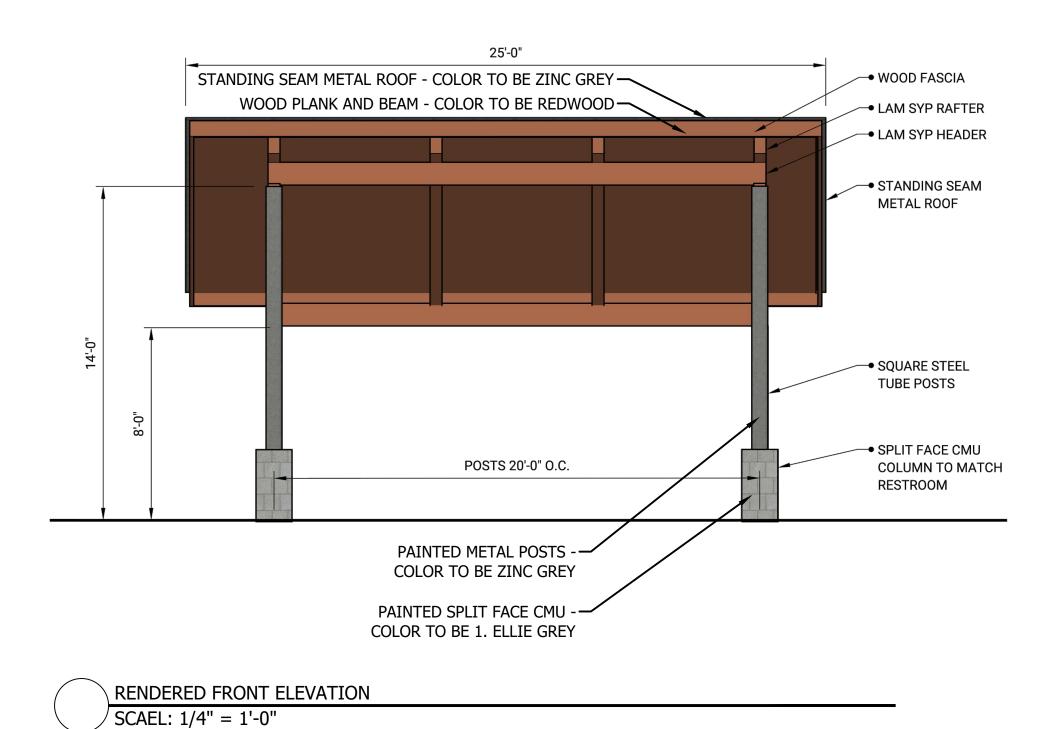
WATER WORKS PARK

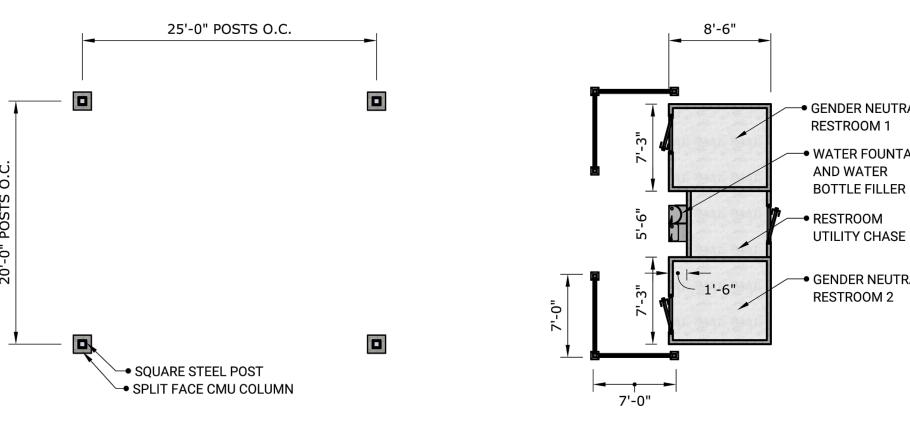
Mission, KS

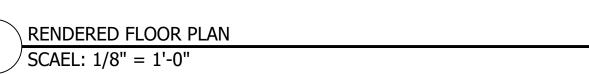
ARCHITECTURAL ELEVATIONS

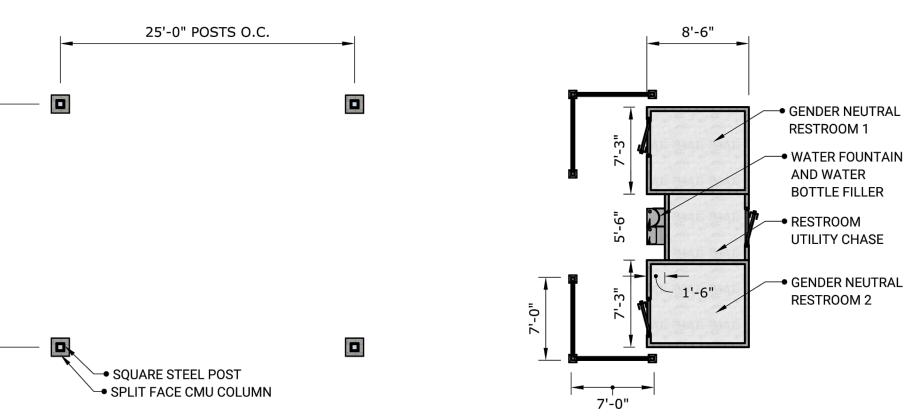
Project No.	Scale	
193806110		
Drawing No.	Sheet	Revision

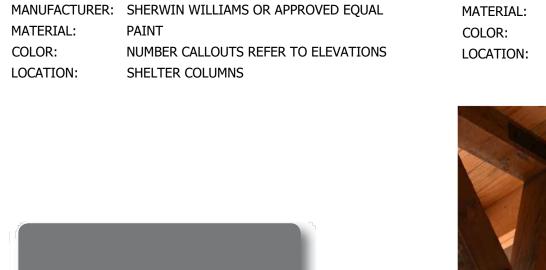
A-100











SR = 0.41 | TE = 0.86 | SRI = 45

SHELTER METAL MATERIAL

Zinc Grey (29)

SHELTER COLORS

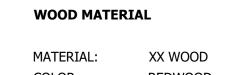
MATERIAL:

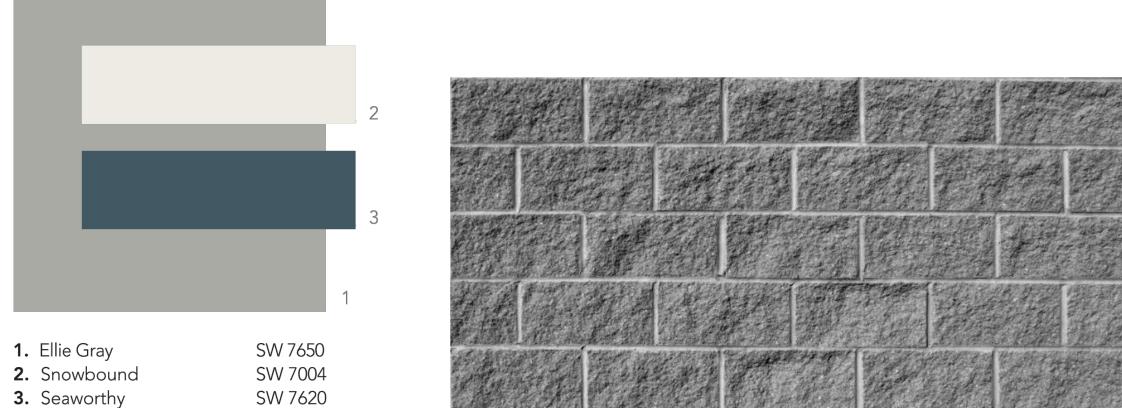
LOCATION:

COLOR:

POWDER COATED STEEL MATERIAL: COLOR: ZINC GREY LOCATION: SHELTER STRUCTURAL SYSTEM

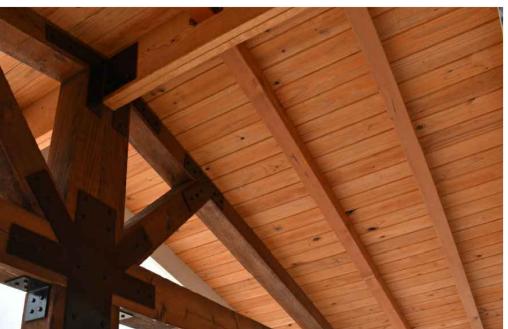




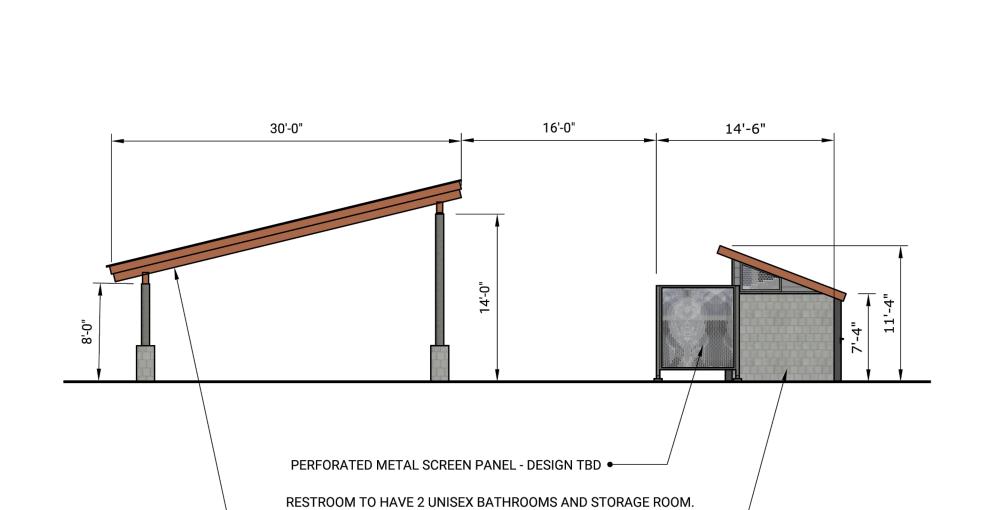


PAINTED SPLIT FACE CMU

SPLIT FACE CMU NUMBER CALLOUTS REFER TO ELEVATIONS COLUMNS WRAP AROUND SHELTER POSTS



COLOR: REDWOOD LOCATION: SHELTER CEILING



RESTROOM TO BE CONDITIONED AND LOCKED FOR YEAR ROUND USE. •——

●SHELTER TO BE 750 SF WITH SLANTED ROOF. SHELTER TO BE ENLARGED TO 30'-0" X 25'-0".

RENDERED SIDE ELEVATION SCAEL: 1/8" = 1'-0"

> _____ _____ By Appd. YY.MM.DD Revision JS KVE **23.07.13** _____ _____ By Appd. YY.MM.DD Issued Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

Client/Project CITY OF MISSION

WATER WORKS PARK

Mission, KS

Stantec

6800 College Boulevard, Suite 750

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Wilson & Company

Stand Engineering

Overland Park, KS 66211 Tel. 913-905-3415 www.stantec.com

Copyright Reserved

Stantec without delay.

Civil Engineering

Signage Design

Notes

Structural Engineering

Star Signs

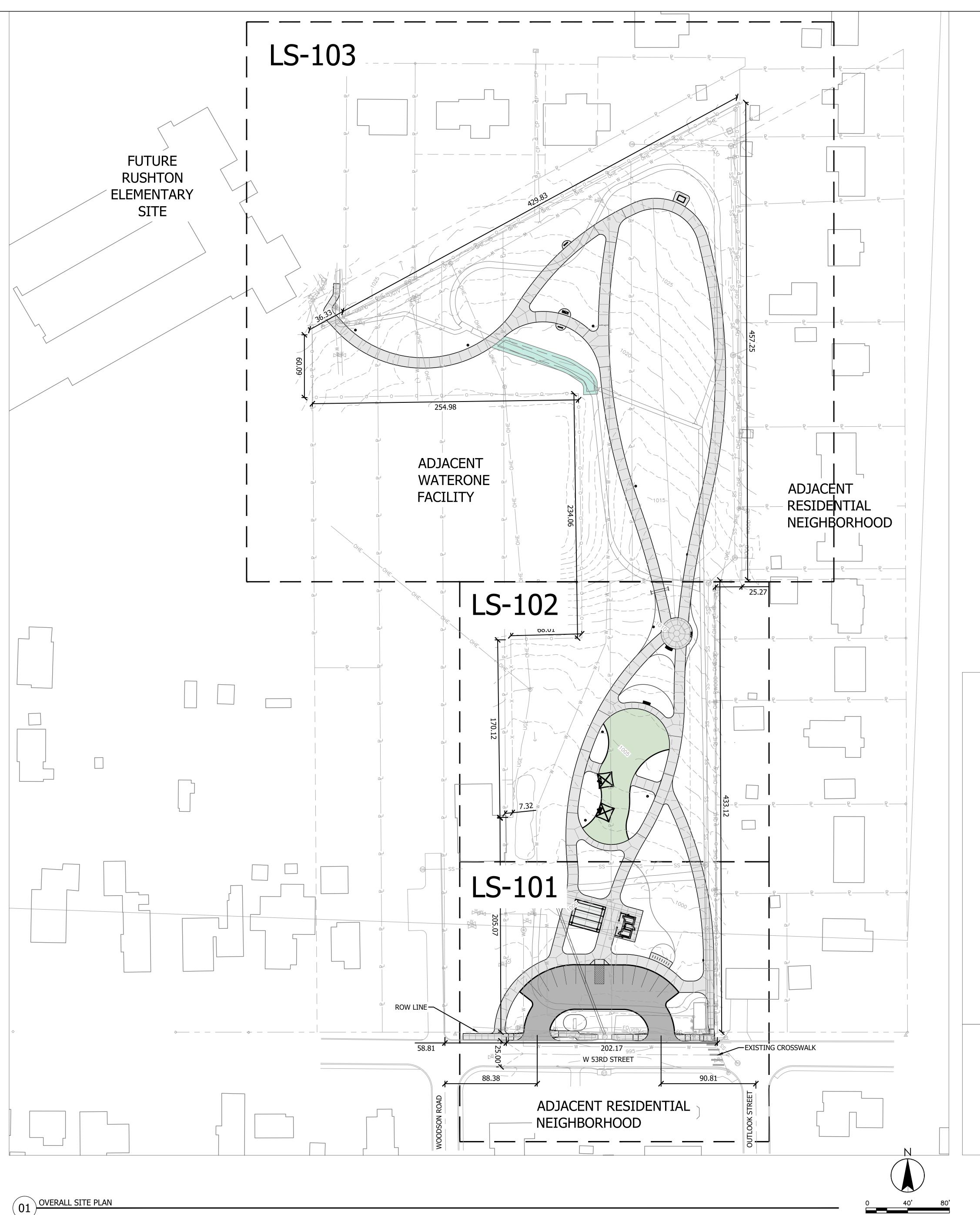
Consultants

ARCHITECTURAL ELEVATIONS

Project No. Scale 193806110 Drawing No. Sheet Revision

A-101

ORIGINAL SHEET - ARCH E1



SITE DATA TABLE						
ZONING DISTRICT LAND AREA	100% OF SITE (4.11 ACRES) R-1 SINGLE FAMILY RESIDENTIAL DISTRICT					
TOTAL BUILDING FLOOR AREA	920 SF					
SITE FLOOR AREA RATIO	0.0051					
NUMBER OF DWELLING UNITS	0					
DENSITY OF RESIDENTIAL DEVELOPMENT	N/A					
REQUIRED NUMBER OF PARKING STALLS	EXISTING - 7 STALLS					
PROVIDED NUMBER OF PARKING STALLS	12 STALLS AND 2 ADA ACCESSIBLE STALLS					

LEGEND

	△ COI	Y POLE Y WIRE ST (BOLLARD) WER POLE OPERTY PIN NITARY MANHO CTION CORNER	DLE R :	
—— CP —		— CP — UGE — FO — G — OHE — — SS — — SD — UGTV — W —	- O	LINE STYLE LEGEND BUILDING OUTLINE CHAIN LINK FENCE CULVERT PIPE ELECTRIC (BURIED) FIBER OPTIC LINE (BURIED) OVERHEAD ELECTRIC PROPERTY LINE RIGHT OF WAY LINE SANITARY SEWER (BURIED) SECTION LINE STORM DRAIN (BURIED) TELEVISION (BURIED) WATER LINE (BURIED) WOOD FENCE
	- ASPHAI	RETE PAVING LT PAVING D-IN-PLAC	E PLAY	' SURFACING



6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

www.stantec.com
Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Civil Engineering

Wilson & Company

Structural Engineering
Stand Engineering

Signage Design
Star Signs

Notes

By Appd. YY.MM.DD

P SUBMITTAL

JS KVE 23.07.13

Ued

By Appd. YY.MM.DD

File Name:

Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project

CITY OF MISSION

WATER WORKS PARK

Mission, KS

itle .

OVERALL SITE PLAN

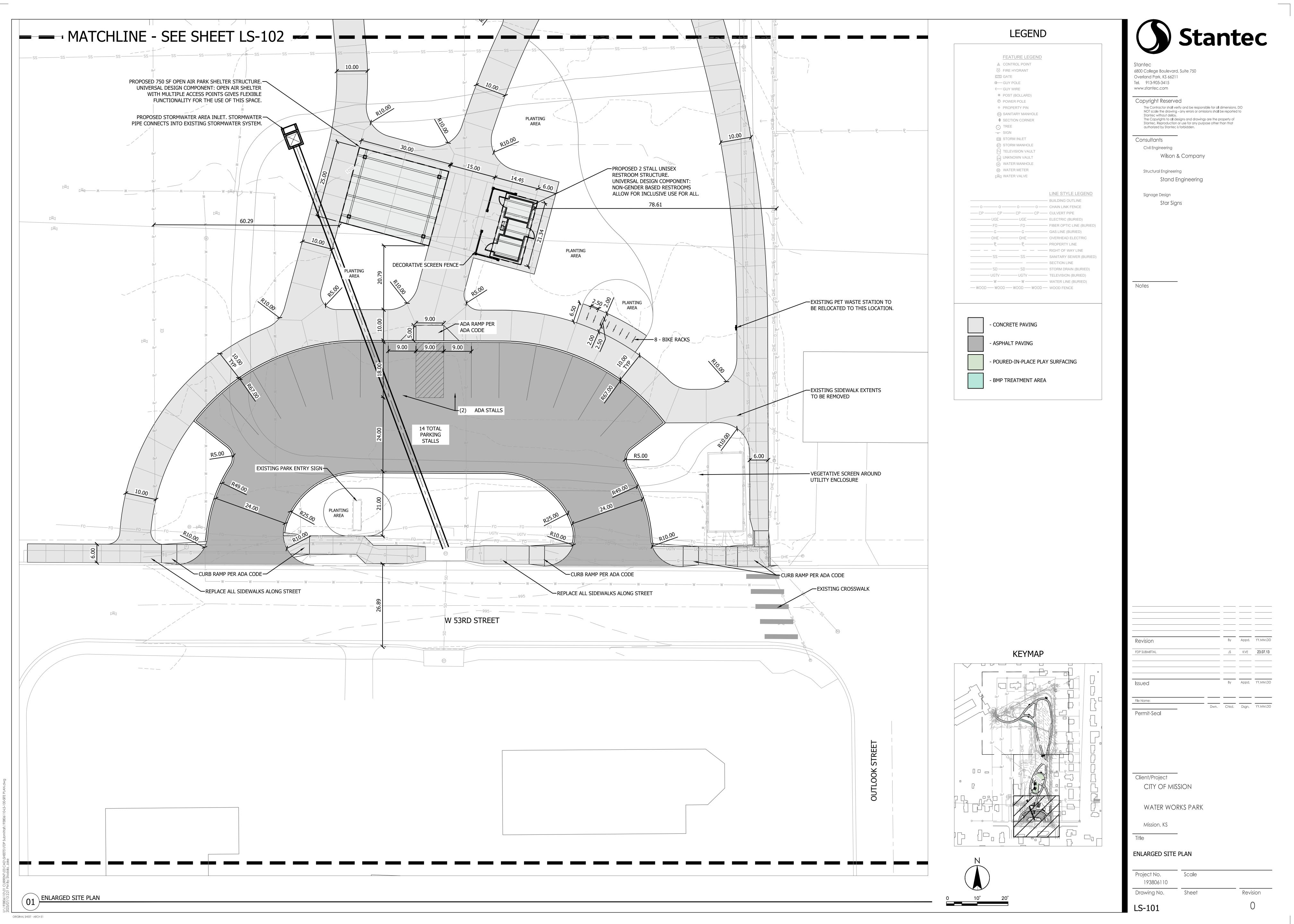
Project No. Scale

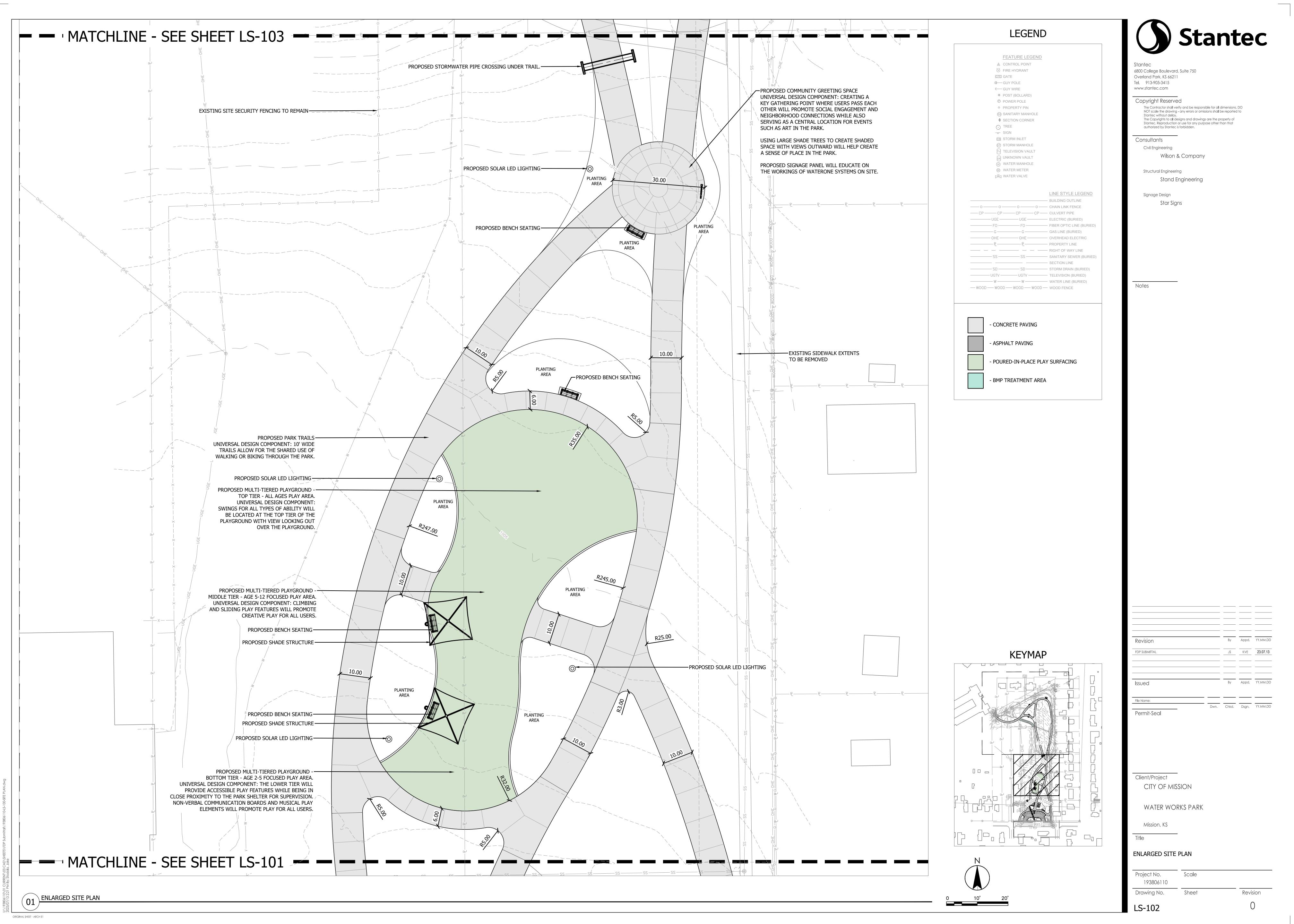
193806110

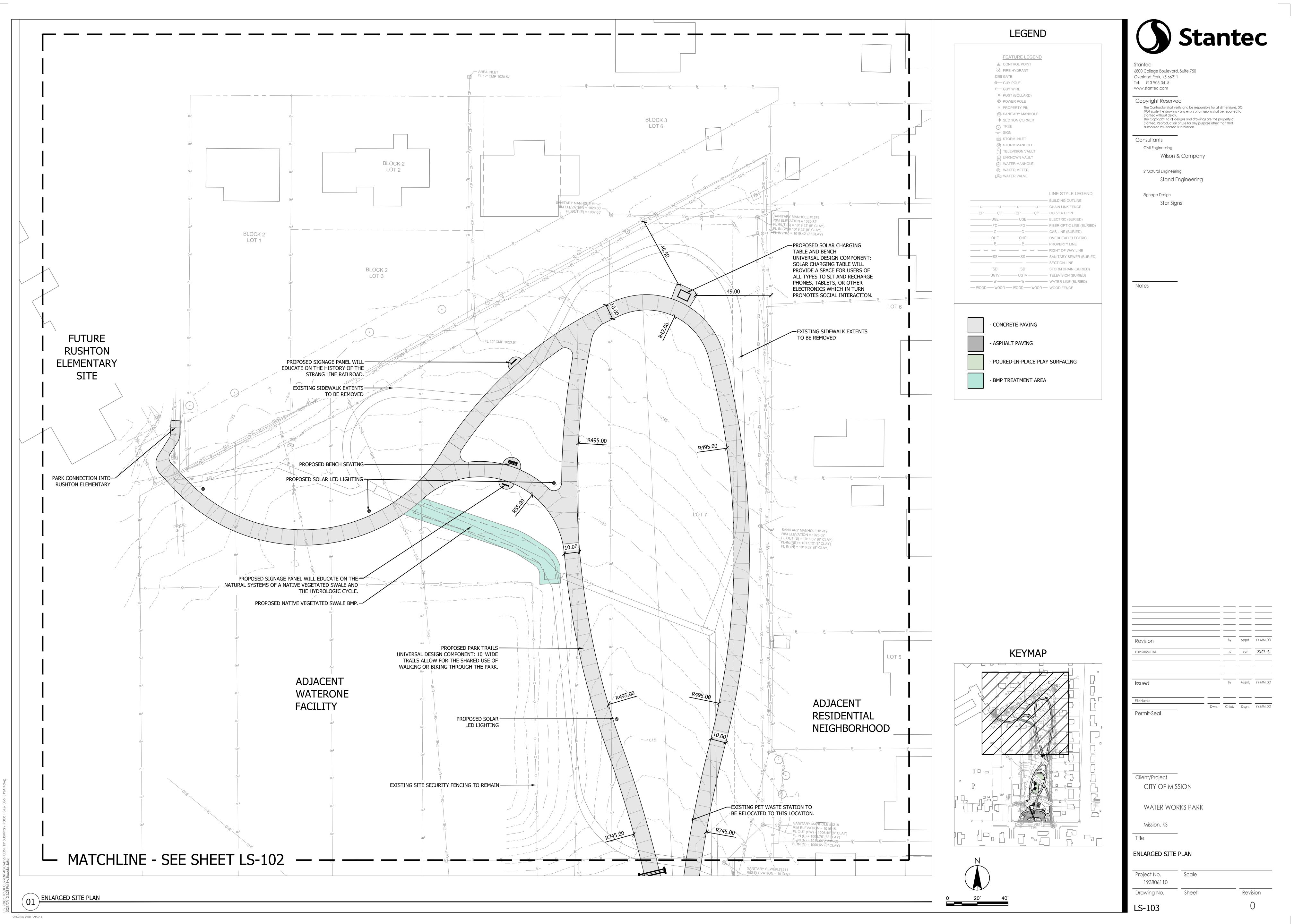
Drawing No. Sheet Revision

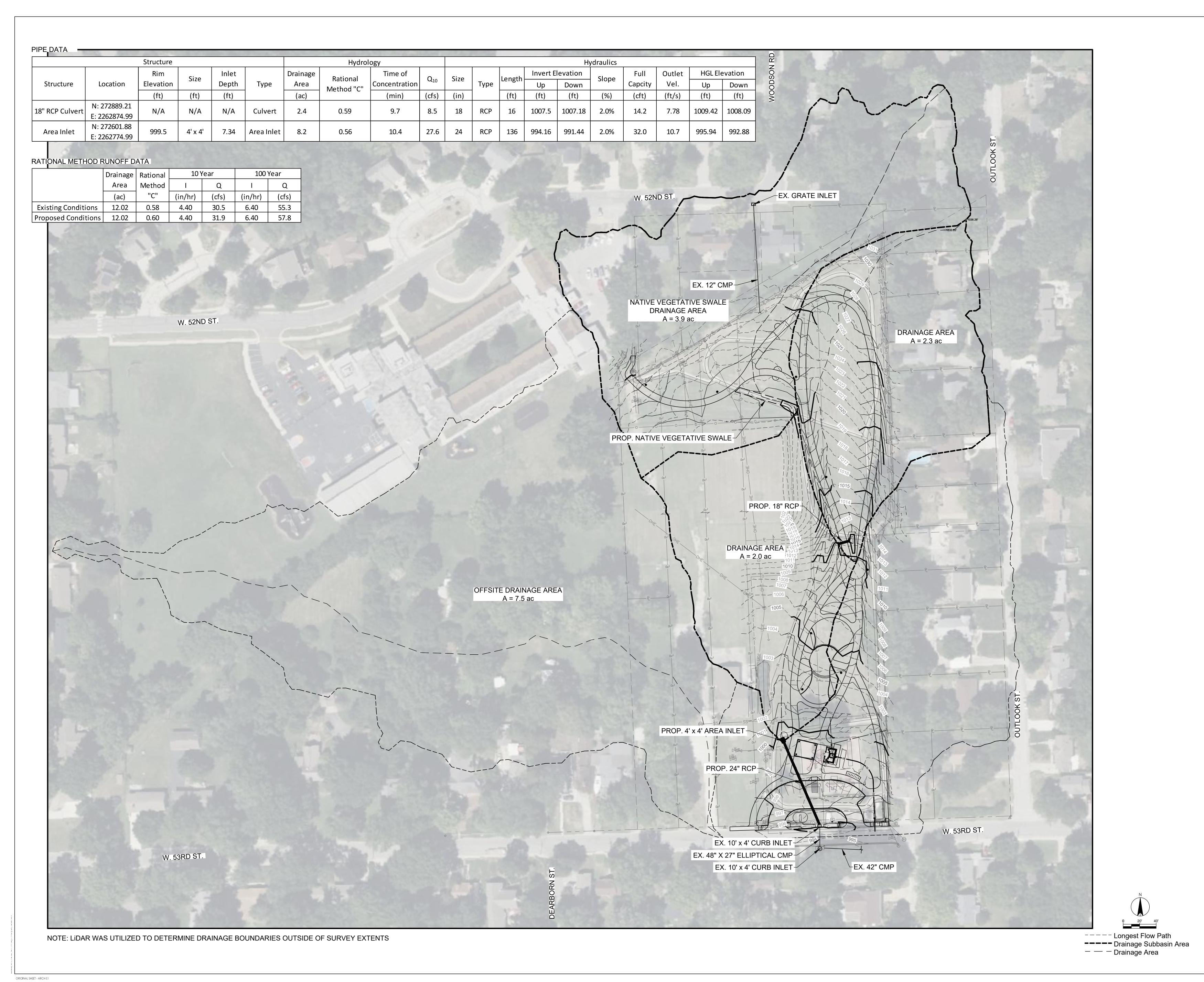
LS-100

ORIGINAL SHEET - ARCH E











Stantec 6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

Copyright Reserved

www.stantec.com

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that

Consultants

Civil Engineering

Wilson & Company

authorized by Stantec is forbidden.

Structural Engineering
Stand Engineering

Signage Design

Star Signs

Note

Revision

By Appd. YY.MM.DD

FINAL DEVELOPMENT PLAN

TAW CLP 23.07.13

Issued

By Appd. YY.MM.DD

File Name:

Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project

CITY OF MISSION

WATER WORKS PARK

Mission, KS

DRAINAGE AREA MAP

Project No. Scale
193806110

C-100

Drawing No.

Revision



Stantec

6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants Civil Engineering

Wilson & Company

Structural Engineering Stand Engineering

Signage Design Star Signs

By Appd. YY.MM.DD

By Appd. YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project CITY OF MISSION

WATER WORKS PARK

Mission, KS

OVERALL GRADING PLAN

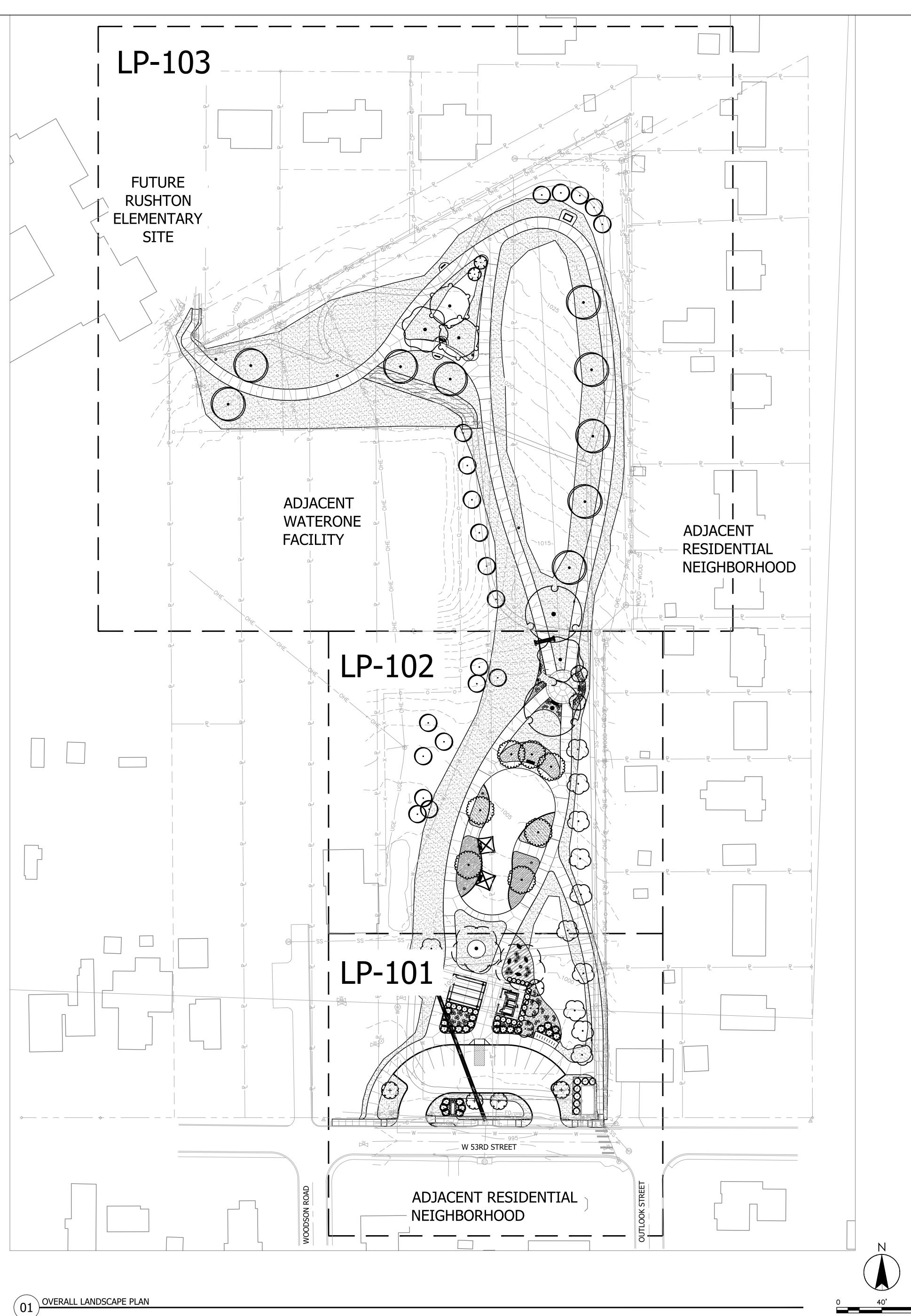
Project No. Scale 193806110 Drawing No. Revision

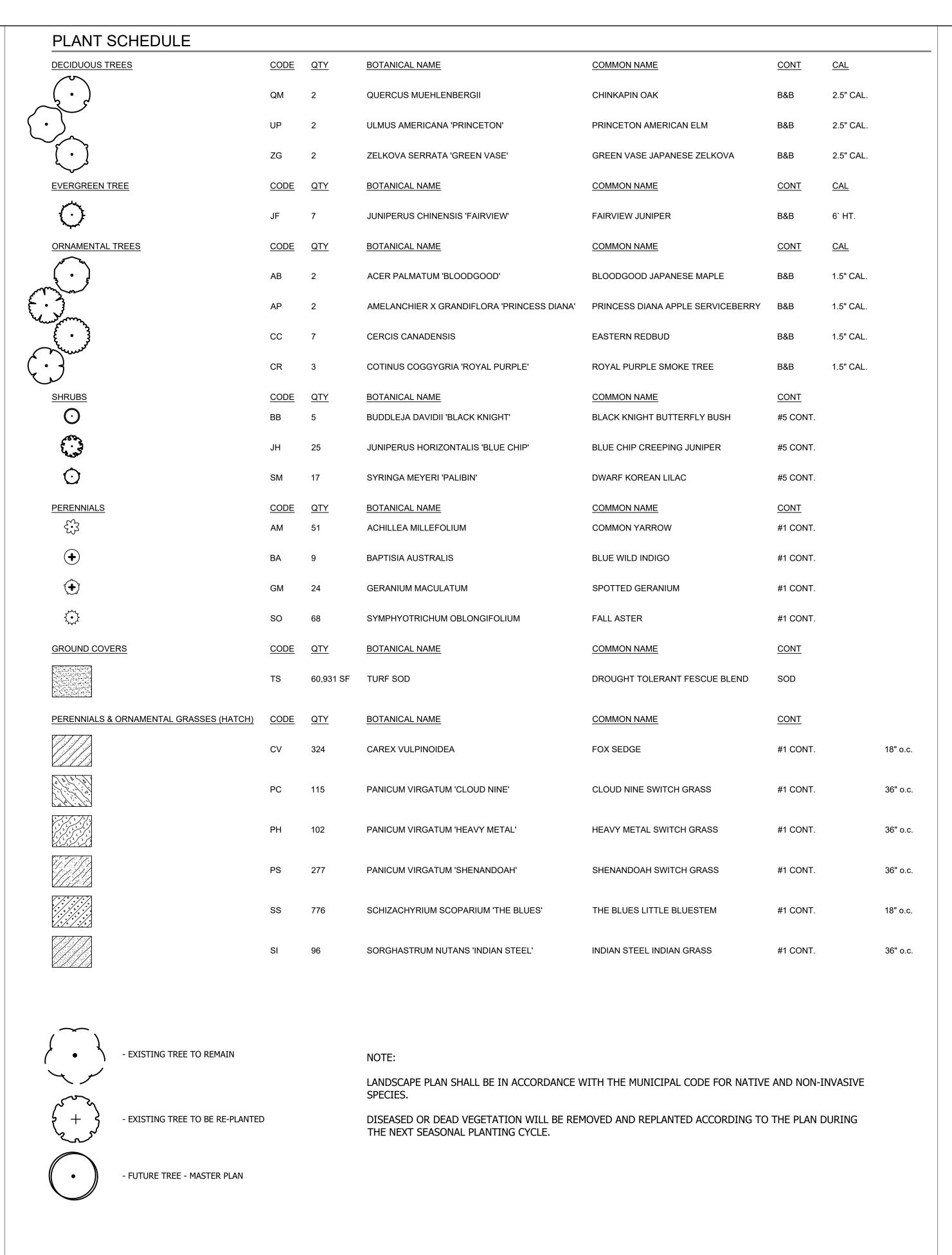
LS-200













6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

www.stantec.com

Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants Civil Engineering Wilson & Company

Structural Engineering

Stand Engineering

Signage Design Star Signs

Notes

By Appd. YY.MM.DD Revision JS KVE 23.07.13 _____ By Appd. YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project CITY OF MISSION

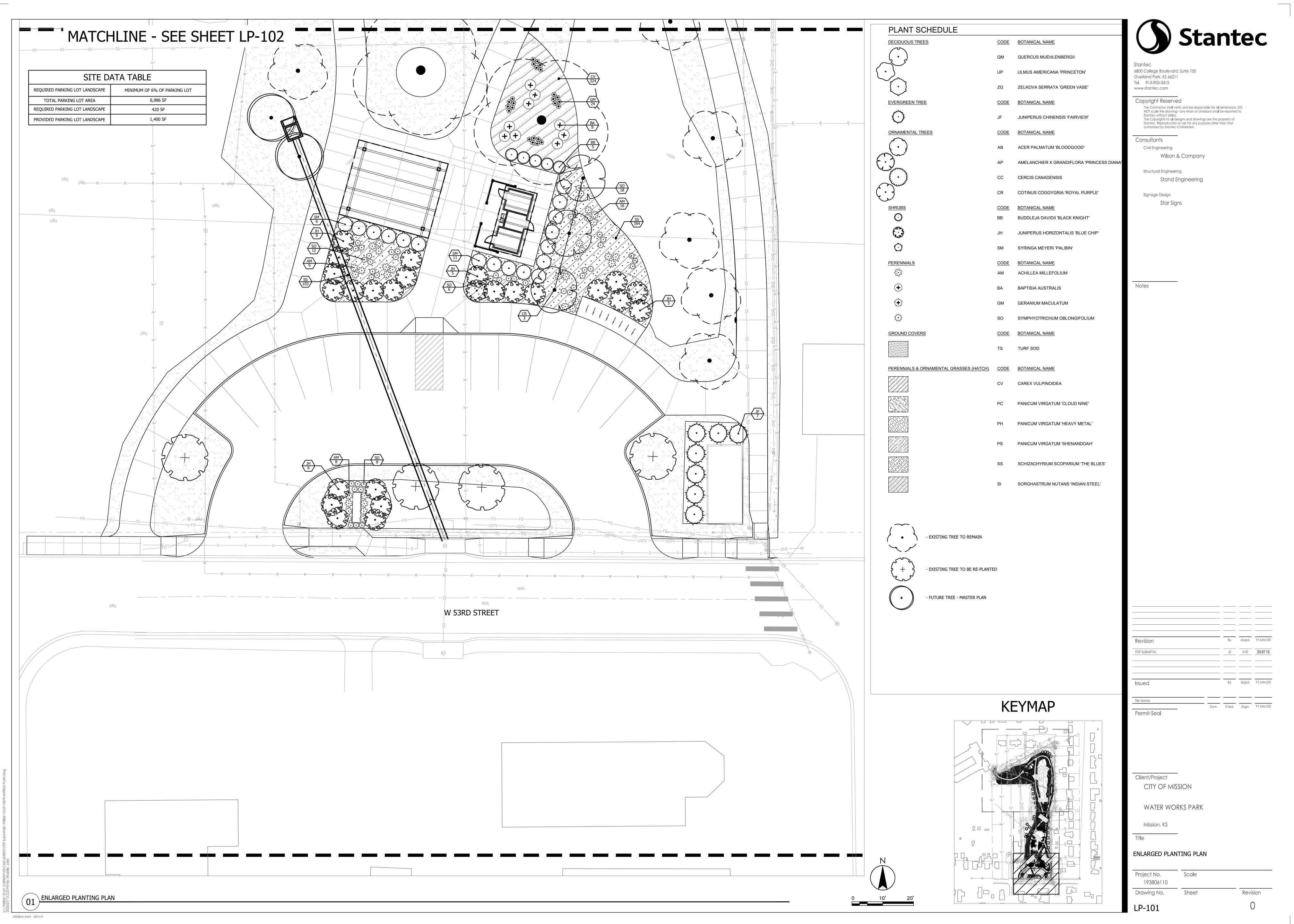
WATER WORKS PARK

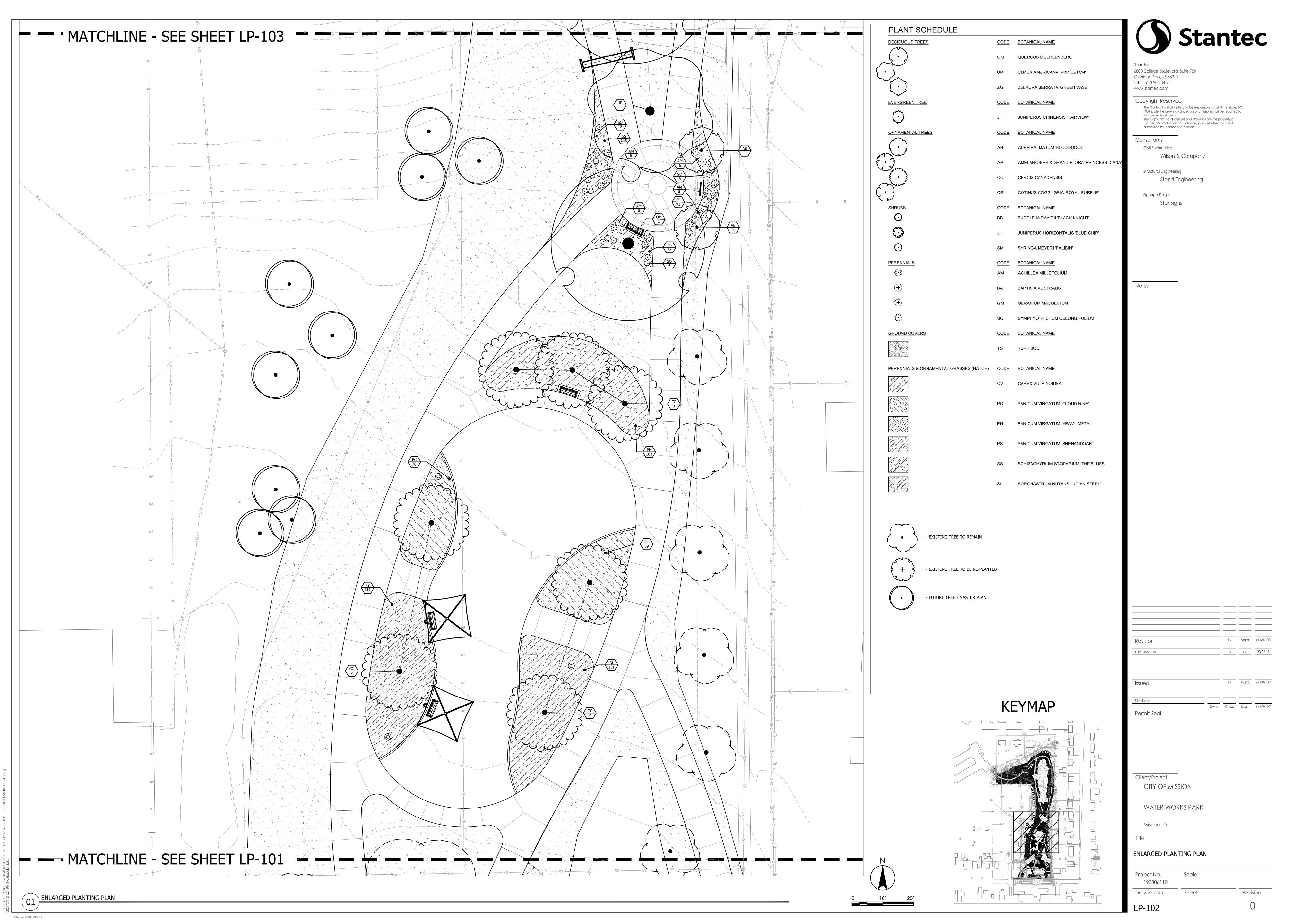
Mission, KS

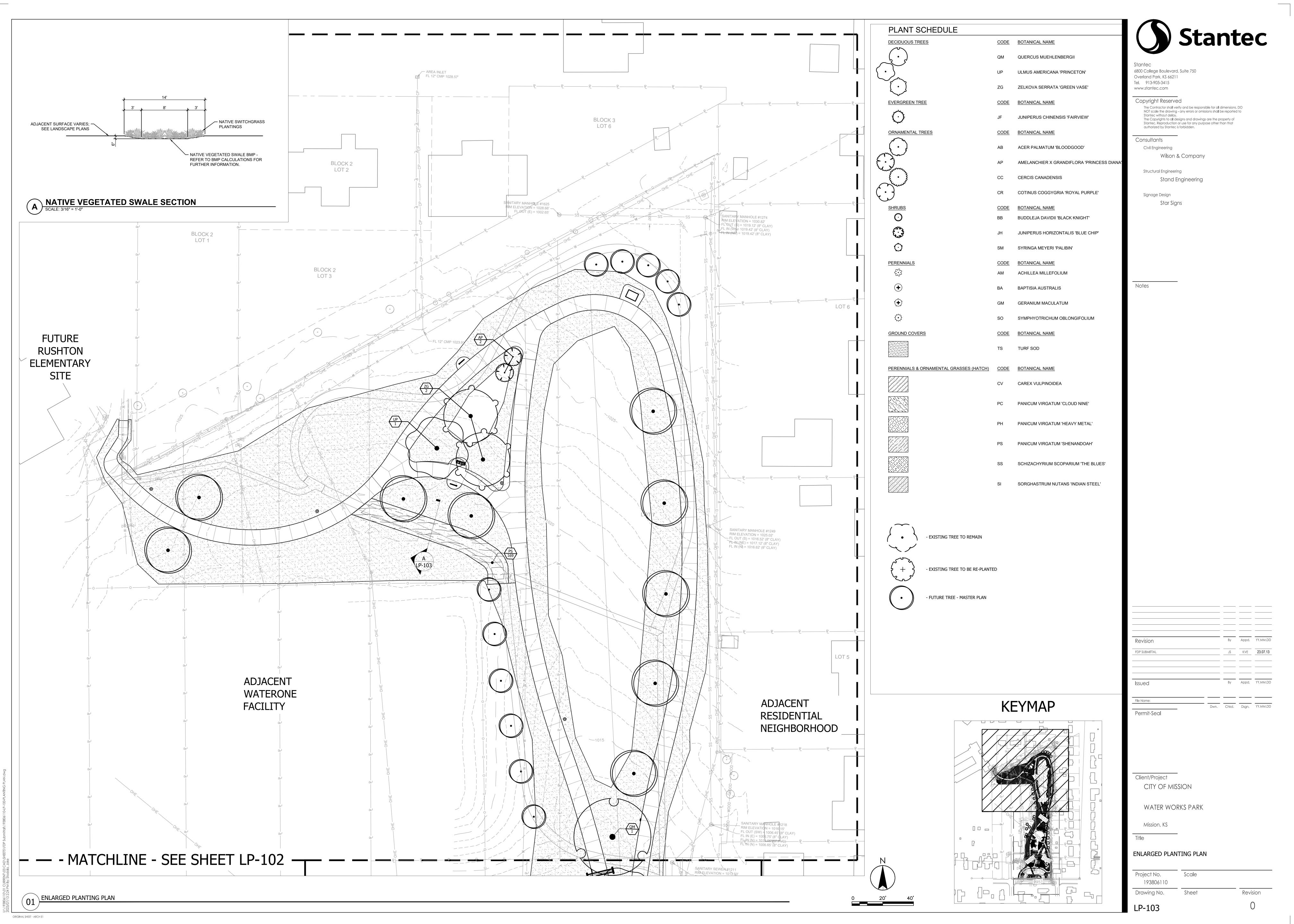
OVERALL LANDSCAPE PLAN

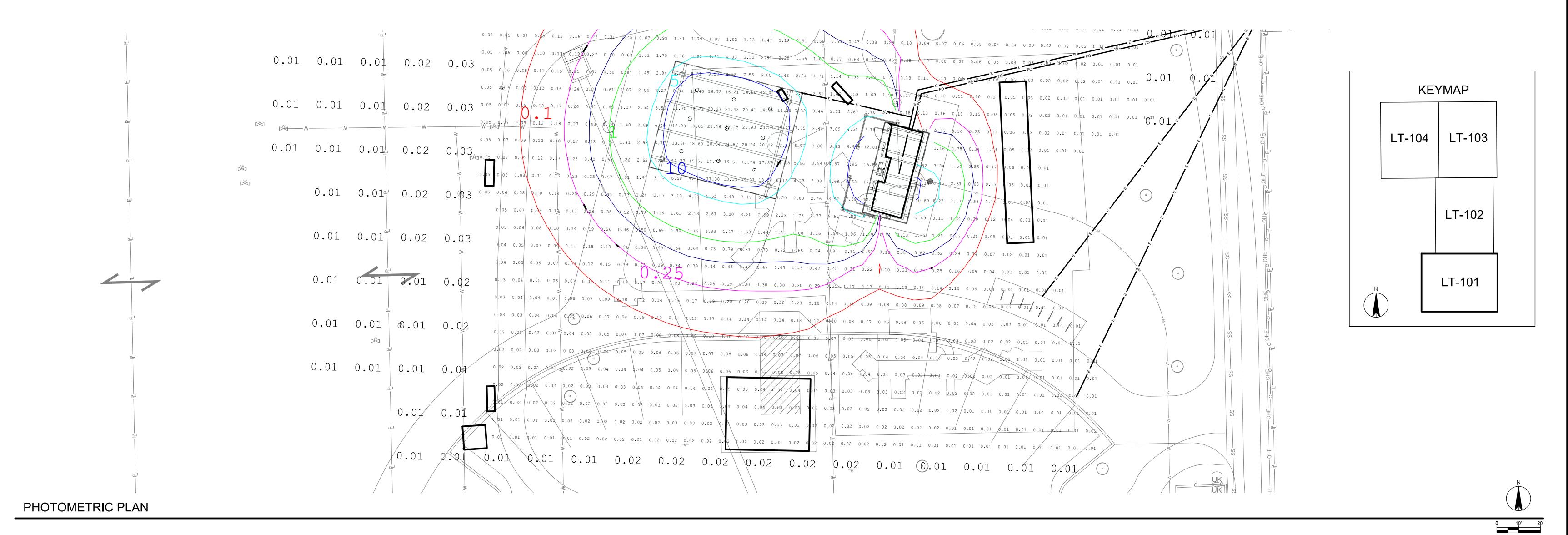
Project No. 193806110 Drawing No. Revision

LP-100





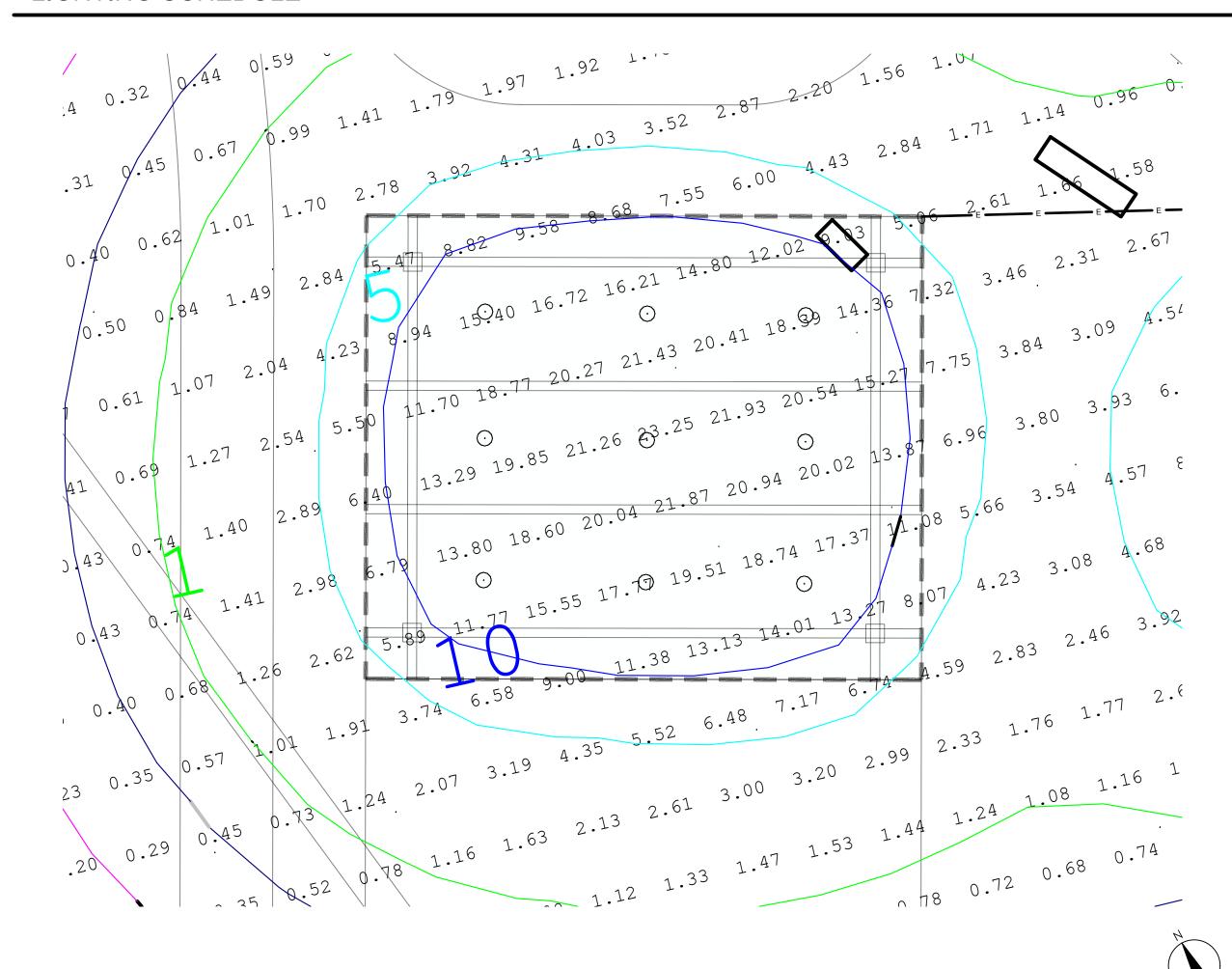


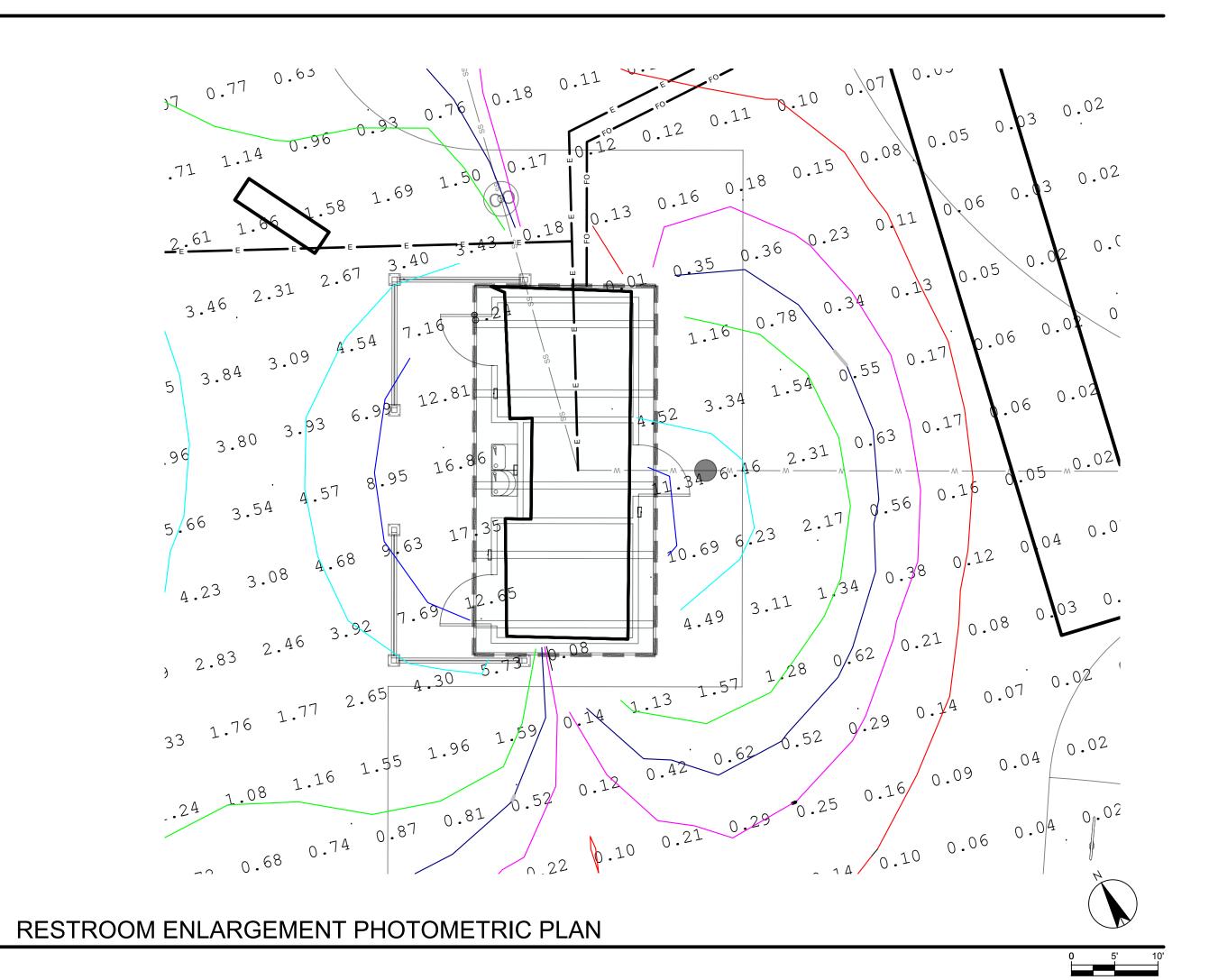


Luminaire S	Schedule					
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	— 4	CK16B 20W 3000K T2	Single	3900	0.900	YTR215925
	_	CK16B 20W 3000K T4	Single	3900	0.900	YTR215964
	4	slim17fa15adj_4k	SINGLE	1904.4	0.900	SLIM17FA15ADJ_4K
\odot	9	MR13FD-PP-MW-20L35K-DCC-DV	SINGLE	N.A.	0.900	MR13FD-PP-MW-20L35K-DCC-DV

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
area	Illuminance	Fc	0.23	2.11	0.00	N.A.	N.A.
building	Illuminance	Fc	1.10	23.25	0.01	110.00	2325
Pathway	Illuminance	Fc	0.67	2.14	0.02	33.50	107.00

LIGHTING SCHEDULE





FULL SHIELDING BELOW THE LOWEST HORIZONTAL

LIGHTING FIXTURES OVER 1000 INITIAL LAMP LUMENS.

PLANE OF THE LIGHT-EMITTING PART OF ALL



6800 College Boulevard, Suite 750 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported t The Copyrights to all designs and drawings are the property of

Consultants

Civil Engineering Wilson & Company

Structural Engineering Stand Engineering

Signage Design

Star Signs

1. All Light Fixtures Shall Meet the Requirements o

The International Dark Sky Association a. Trail Lighting - 3000k LED

b. Restroom Lighting - 4000k LED c. Shelter Lighting - 3500k LED

Illuminance Level (Fc)

Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

Client/Project CITY OF MISSION

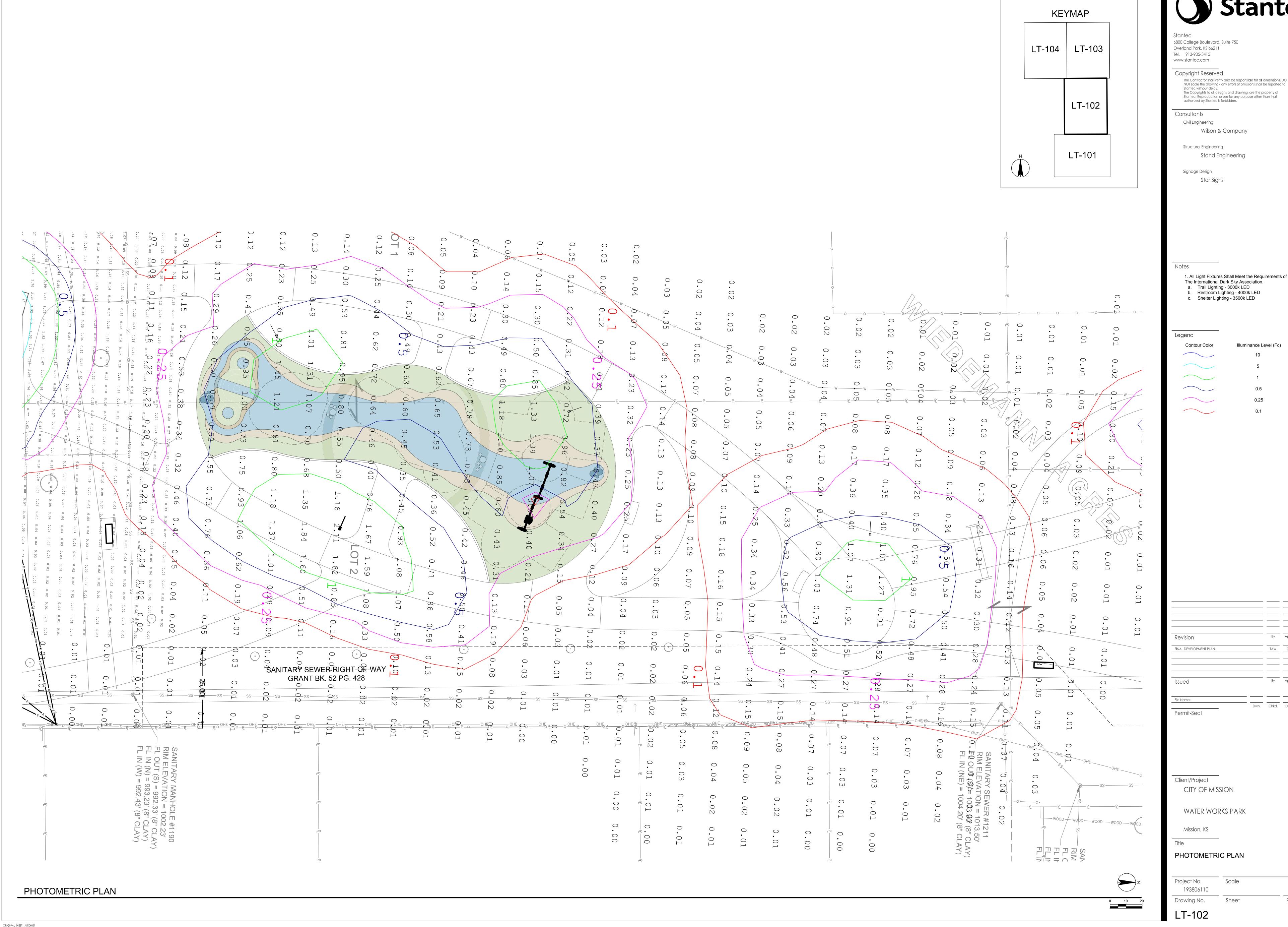
WATER WORKS PARK

PHOTOMETRIC PLAN

Project No. Drawing No. Revision

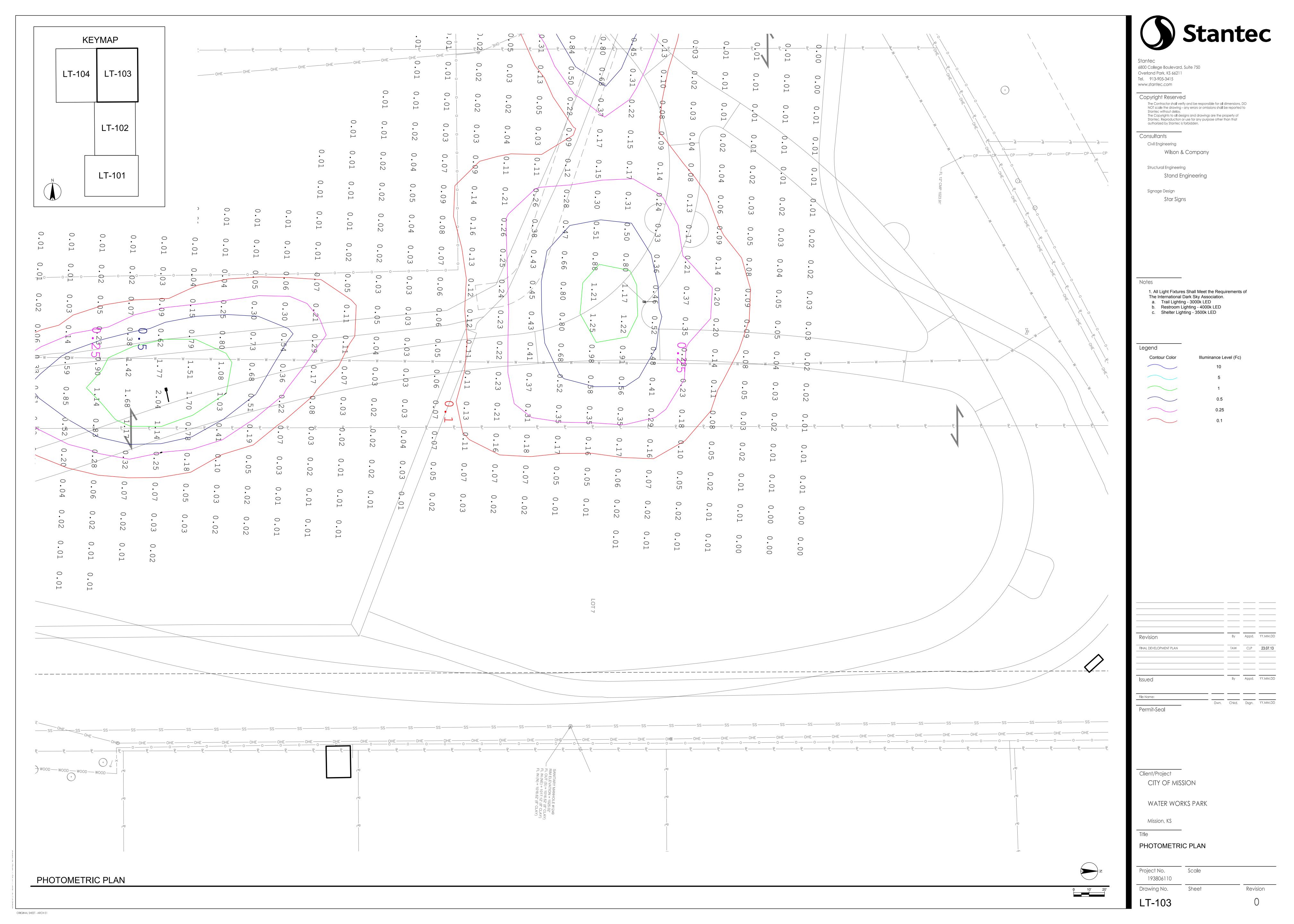
LT-101

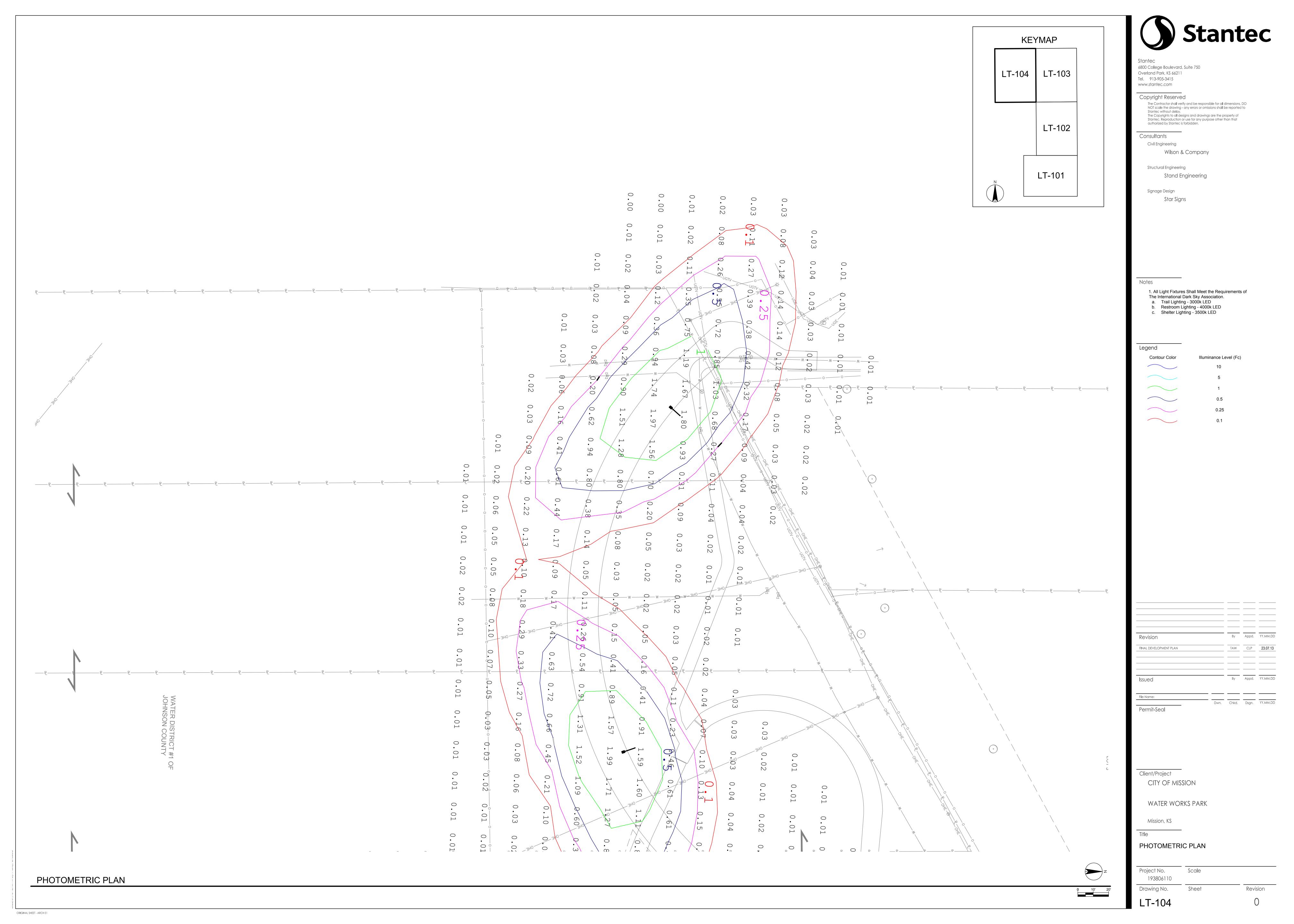
SHELTER ENLARGEMENT PHOTOMETRIC PLAN



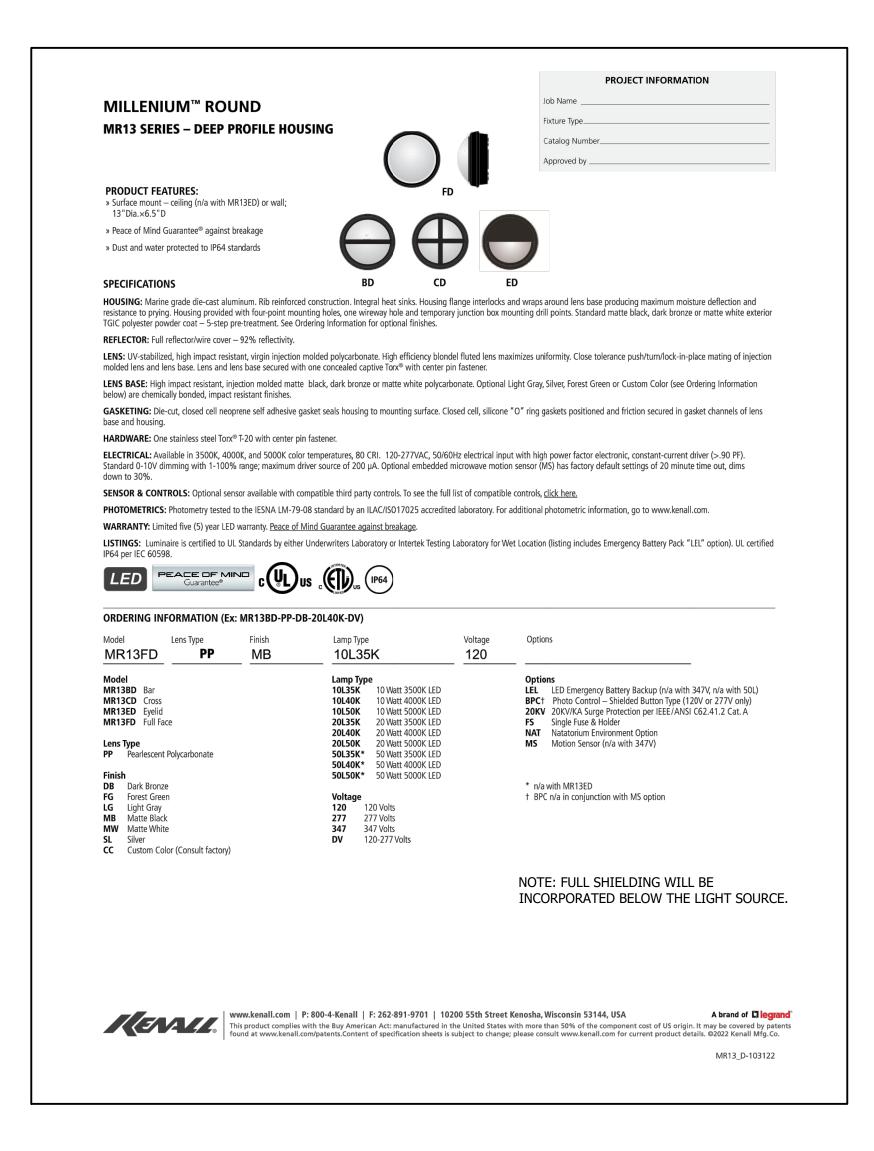
Illuminance Level (Fc)

Revision

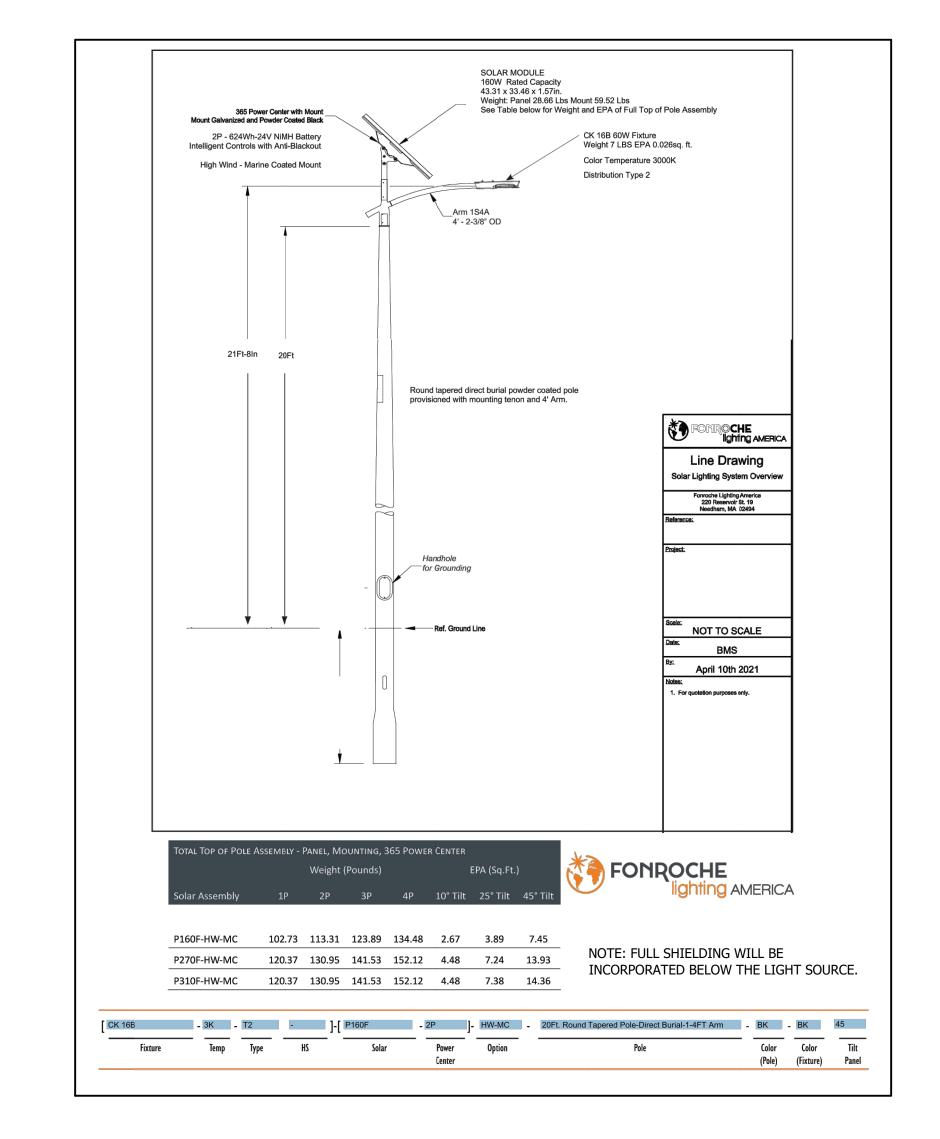








SHELTER LIGHTING SPEC



SOLAR PEDESTRIAN LIGHT SPECS



Stantec 6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415

Copyright Reserved

www.stantec.com

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that

Consultants

Civil Engineering

authorized by Stantec is forbidden.

Wilson & Company

Structural Engineering
Stand Engineering

Signage Design
Star Signs

Notes

Revision

By Appd. YY.MM.DD

FDP SUBMITTAL

JS KVE 23.07.13

Issued

By Appd. YY.MM.DD

File Name:

Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project

CITY OF MISSION

WATER WORKS PARK

Mission, KS

e

LIGHTING SPECS

Project No. Scale
193806110

Drawing No. Sheet Revision

LT-105

U:\193806110\01 CURRENT\03 CAD\SHEFTS\FDP Submittal\193806110-LT-100-LIG 2023/07/13 2:24 PM By: Stodola, Jake

ORIGINAL SHEET - ARCH E1



Project: Water Works Park Expected completion: Aug '24 Project Team: Stantec

Building Scorecard (Revised December 2018)

Please complete all sections that are applicable to this project. Check any boxes for areas that apply to the work, and use the blank area to explain further. You may also assign point totals for each section; though these will be reviewed and a final score determination will be made by the Mission Sustainability Commission. Additional explanations and clarifications for each item can be found in the building scorecard supplemental document.

	sustainable building certificat	ions? Include rating details.
Site Development, Land Use	e, Location and Transportation	n Impact
a. Pre-design site assessment	b. Preserve natural resources	☐ c. Manage storm water
d. Landscape irrigation	e. Manage plants/ vegetation	☐ f. Manage soils/ erosion contro
☐ g. Site waste management	. Walking/ bicycle paths	Bicycle storage
□ j. Changing/ shower facilities	k. Carpool/ car share	1. EV charging
□ m. Bus access	. Heat island mitigation	Reduce light pollution
circulation, and front door aesthetic. 21. Bike racks will be included with electric hookup 21. EV charging hookups will be provided for future 2N. Buildings and gathering spaces are located un-		provided over play features.
Materials and Resource Use		
□ a. Reuse existing building	Construction material manag	ement
☐ c. Construction waste manageme	ent d Sustainable/ local materials	
☐ e. Occupant waste management	f. Occupant recycling/ compost	ing
		Points scored out
Energy Conservation, Efficie	ncy, and CO _{2e} Emission Reduc	ction
□ a. Energy Modeling	□ b. CO₂e modeling	☐ c. Energy metering/ monitorin
☐ d. Automated demand response	e. Building envelope/ insulation	□ £ Mechanical systems
		i. Onsite renewable energy
g. Electrical/ lighting systems		•
accounted for the winter months by keeping the so 4G. Lighting systems will use LED lights with motio controls. Remote controlled locking system will be	es on site for shading, utility chase will be fully insulate outherly edge of the restroom free of any shade. on sensors vents for natural light and air flow. Exterior	lights will be Dark Sky compliant and have photoc

. Water Conservation and Efgran?□ a. Water metering	b. Fixtures/ fittings	G c Appliances/ equipment								
□ d. HVAC water use	□ e. Water treatment devices	☐ c. Appliances/ equipment 7. Reduce irrigation								
		i. Reduce irrigation								
	□ g. Rainwater □ h. Graywater 5A. Meters could be installed to track usage for data purposes if the city needs this information.									
5B. Fixtures include low water use urinals and to reduce heat loss in piping while outperforming b 5F. Irrigation wont be needed in this park due to	oulky hot water tanks.	itton sink faucets, and Tankless electric water heater to								
		Points scored out o								
. Indoor Environmental Qua	•									
□ a. IAQ management plan	□ b. Air handling filtration	c. Increase ventilation								
□ d. IAQ during construction	□ e. Thermal comfort	<u> f. Indoor pollutant control </u>								
g. Material emissions control	h. Acoustics	i. Daylighting/ views								
j. Accessibility/ Community for										
6H. Acoustics in the park have been accounted		l break down urine to prevent odor concerns. d by tree and native plantings while more passive spac lacing mechanical components in the utility chase redu								
 Park design accounts for diverse mix of shad ADA requirements have been met on site, co 		e points in the park. with playground features for all ages, shelter and restr g points to promote community and social engagemen								
		Points scored out o								
a. Inspections d. Building controls systems	h. Mechanical commissioning e. O+M documentation	c. Energy commissioning f. Maintenance staff training								
a. Inspections □ d. Building controls systems 7A. 3rd party inspection company will provide ins 7E. Binder of products and vendors used on site	e. O+M documentation	f. Maintenance staff training								
a. Inspections □ d. Building controls systems 7A. 3rd party inspection company will provide ins 7E. Binder of products and vendors used on site	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte	f. Maintenance staff training								
a. Inspections □ d. Building controls systems 7A. 3rd party inspection company will provide ins 7E. Binder of products and vendors used on site	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte	f. Maintenance staff training								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide instance of products and vendors used on site of products and vendors will be used to see the control of products and the control of products are control of products.	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte	nance. ng. Points scored out o								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide ins 7E. Binder of products and vendors used on site 7F. Binder of products and vendors will be used to the second	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training	Points scored out o								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training puttes that will be incorporated in the ential signage topics include Historical Site information	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training toutes that will be incorporated in the ential signage topics include Historical Site information the legacy of planting trees for Arbor Day at the school	Points scored out o								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide instead on site of products and vendors used on site of products and vendors will be used to site of products	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training outes that will be incorporated in the ential signage topics include Historical Site information me legacy of planting trees for Arbor Day at the school Bonus Poi	Points scored out on the project. Native Plantings and identification, WaterOne process.								
a. Inspections d. Building controls systems 7A. 3rd party inspection company will provide inspection company will provide inspection company will provide inspection. Binder of products and vendors used on site of products and vendors will be used to site of products and vendors will be us	e. O+M documentation spection after park is complete. will be created to keep track of warranties and mainte by staff to reach out to vendors for maintenance training outes that will be incorporated in the ential signage topics include Historical Site information me legacy of planting trees for Arbor Day at the school Bonus Poi	Points scored out o								

Drainage Memo

To: City of Mission, Kansas **From:** Chelsea Pfaffly, PE

Re: Water Works Park Drainage Memo





Date: 7/5/2023

Wilson & Company is assisting Stantec with the designing of improvements at Water Works Park in Mission, Kansas to improve accessibility and compliance with ADA standards. The park is bounded by single family homes and Rushton Elementary to the north (W. 52nd Street) and east (Outlooks Street), W. 53nd Street on the south, and a WaterOne building and small parking lot to the west. The existing park consists of a walking trail, a 7-stall parking lot, a covered shelter with two picnic tables, and a playground. The proposed improvements include replacement of the trail to meet ADA standards, upgraded and expanded parking with ADA stalls, upgraded playground area and equipment, permanent restrooms, and an expanded covered shelter.

Existing Conditions

The project site is approximately 4.7-acres. The drainage area encompassing the park is approximately 12-acres and drains south from W. 52nd Street, to the curb inlet (to remain) just west of the park parking lot on W. 53rd Street. The 12-acre drainage area encompasses the east portion of Rushton Elementary, which is currently under construction. The Rushton Elementary Design Team indicated in the Final Stormwater Management Study, sealed on 8/19/2022, that proposed conditions of that site will not adversely impact Water Works Park. The existing park site has 0.3-acres of impervious area. See Table 1 for existing condition peak runoff.

Proposed Conditions

The proposed improvements will disturb 3.1-acres. The existing trail will be removed, and a new trail will be constructed to meet ADA standards. The playground will be expanded. The proposed parking lot provides 12 standard stalls and 2 ADA stalls with green space between the road and parking lot. The proposed grading with regards to stormwater runoff will generally remain unchanged from the existing conditions. Of the approximately 12-acre drainage area 3.9-acres will be treated for water quality by a native vegetation swale. Another 2.3-acres will follow the existing drainage patterns and be conveyed under the proposed trail by a proposed 18-inch RCP culvert. Both sub basins and an additional 2.0-acres, for a total of 8.2-acres, will flow to an area inlet that will the flow into the existing downstream curb inlet via 24-inch RCP. See the attached drainage area map for more information.

The proposed impervious area of the park will increase from 0.3-acres to 0.8-acres. Table 1 below compares existing and proposed peak runoff from the site at the inlet on W. 53rd Street runoff for the 10-year storm event will increase by approximately 1.4 cfs for the proposed extended parking lot while the 100-year peak runoff will increase by 2.5 cfs.

The existing downstream system is a 48-inch by 28-inch horizontal elliptical corrugated metal pipe (36-inch round equivalent) with a maximum capacity of 60 cfs. The total drainage area for the curb inlet/receiving storm sewer system is 19.5-acres, including the 12-acres encompassing the park, with a 10-year peak runoff of 53.4 cfs, causing no adverse impacts to the downstream system.



Table 1. Existing vs. Proposed Runoff

	Park	Total	Rational	10-Y	ear	100-Year			
	Impervious Area (ac)	Drainage Area (ac)	Method "C"	I (in/hr)	Q (cfs)	I (in/hr)	Q (cfs)		
Existing Conditions	0.32	12.02	0.58	4.40	30.5	6.40	55.3		
Proposed Conditions	0.84	12.02	0.60	4.40	31.9	6.40	57.8		

Water Quality best management practices (BMP) features were added to the park facility for water quality treatment. A Native Vegetated Swale is provided to capture the water quality volume from the north area of the park. Several native vegetation planting beds are also included on site for additional treatment. Level of Service calculations have been included as an attachment to this memo.

Summary

The change from existing to proposed conditions results in an increase of approximately 1.4 cfs for the 10-year storm event and 2.5 cfs for the 100-year storm event due to the increased impervious area for the proposed conditions. This is approximately a 3% increase in runoff from existing conditions. The increase in runoff is negligible and will cause no adverse impacts to the downstream system. We request approval for a detention waiver, as the impacts are negligible. The proposed conditions include several native vegetation beds along with a native vegetation swale for water quality treatment but provide no detention for the 10-year or 100-year event.



 By:
 DBM

 Checked By:
 CLP

 Backchecked By:
 CLP

 WCI Project Number:
 23-600-079-00

 Date:
 6/27/23

 Date:
 6/28/23

 Date:
 6/28/23

 Sheet:
 1 of 1

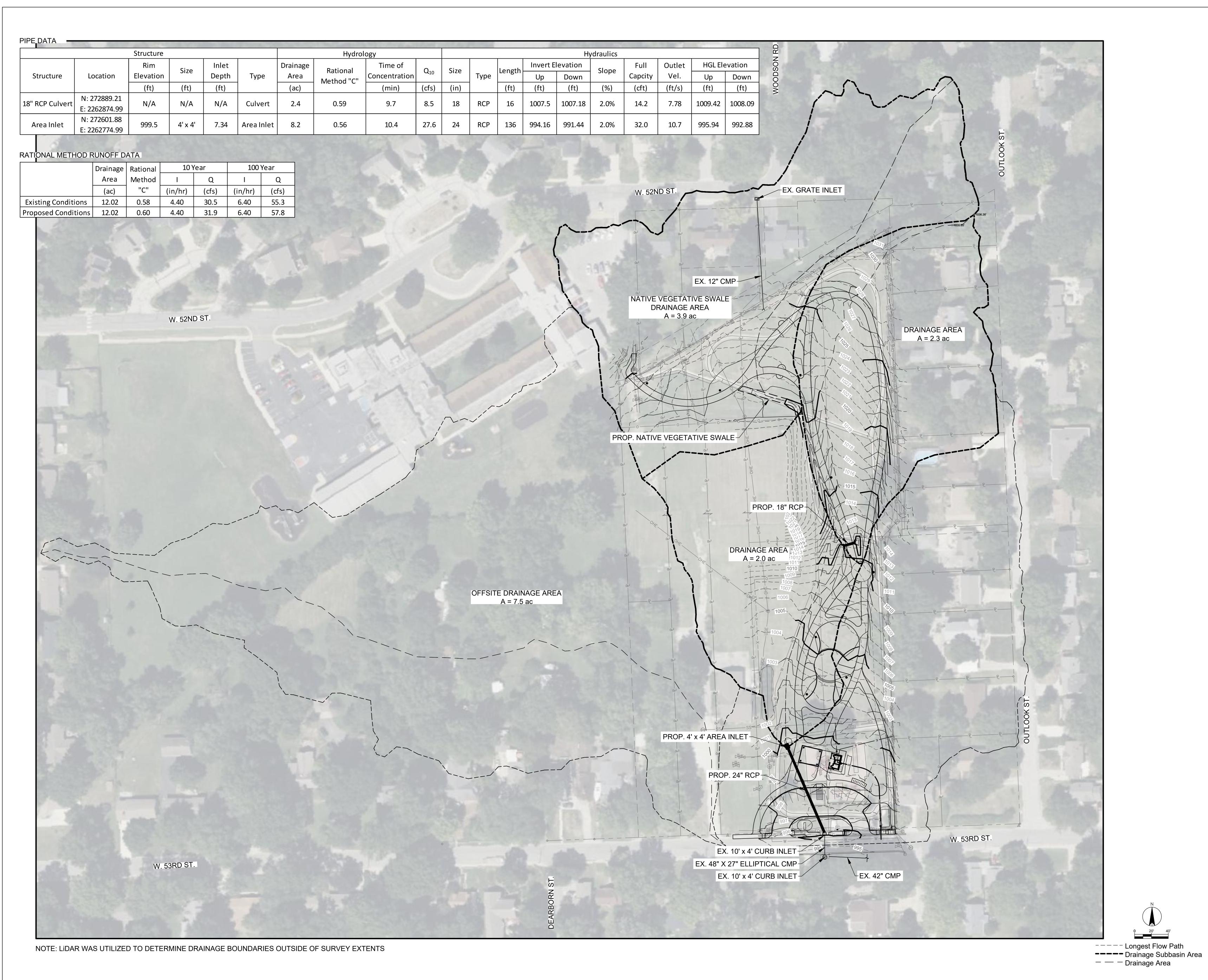
Calculations For: Water Works Park Improvements

<i>I.</i> И	atei	· Oı	uali	tv R	ain	fall Ru	noff																										
		Ξ.					10,0																									Ī	
H	DA:	=	3.8	88	Acr	es																					H					T	
				0	-	K*C*I	!*A																										
				$K_{(l)}$	37)	=		.00																									
					Ċ		Run	off Coe	effici	ient =				0.65																			
					Ι					ity (in/	hr)																						
							whe	re:																									
									T_c	=	T_I +	T_T																					
											T	_I =	[1.8	(1.1-C)D	⁵]/:	S ^{.33}																	
													C =																				
													D =	Overland	Flo	wD	istance Par	allel to	Sl	lope =						30	ft						
															_	_	the Primary		_		, in	Percei	nt =					1	2.25	%			
											T	_I =	15	(shall no	t be	gre	ater than 13	5 minui	tes))													
											T	$_{T}=$	L/V/c												_								
																	lized Flow					600	feet										
															ase	d on	Average C	hannel	! Sl	ope =					10	ft/s							
				Ш						ļ	T	$_{T}=$	1	minutes												(MAI	RC I	3MF	Manua	l Ta	ble (5.4)	
				Ш																								1				ļ	
									T_c	=	15	+	1	minutes		=	16													Ш			
				I_{\cdot}	.37	=	1	.40	in/k	hr	(AP)	WA Ra	infall	Intensity	Tab	les f	or Kansas (City)															
			Q_{ℓ}	1.37)	=	1.00	*	0.65	*	1.40	*	3.88	=	3.53	cfs																		
																																_	
II.	Size	Na	tive	· Ve	gita	tive Su	vale																				_					_	_
	_	<i>a</i> 1																				l	B	or T		l	١.	! <u> </u>					_
	1)	Cal	cule	ate I	ro	rided (Зарас	city					<u> </u>								$\overline{}$		∇	-	_		1						
		_		- 0		2./	1/			<u> </u>		<u> </u>	<u> </u>	<u> </u>											У			_					
		-	Q	$=\frac{1}{r}$	Al	? /3 <i>S</i> 0	72	(Mann	iing	's Equa	ation	for flo	w) (cj	s)								-		b		┥		.—				-	+
\vdash	-			H			<u> </u>			l	137: 7	4. (1.)	4 -	10a (A)	1217		Danie	LI ₁ J		io D ~ J	ia~	7.	-24	J:	a I					\vdash	+	+	+
\vdash			n val		De	oth (y)	(ft)	Side S	Slop	e (m)		th (b)		rea (A) (ft²)	We	rtea	Perimeter	-		ic Kaai) (ft)	ius		gitu pe (Q	(cfs)			\dashv	\dashv	-
		-	0.0			0.40			3.00)		ft) .00		<u>π)</u> 3.68		1	(ft) 0.53	(1	0			510	0.02			1	.27				+	+	+
		\dashv	0.0	,,		0.40			5.00	, 	0.	.00		3.00		1	0.33		<i>U</i>	<i></i>			0.02			4	.4/				+	+	+
	2) (1 ₀ 1.	J.	to D	al a	ii taa																									\dashv	\dashv	+
H	2) C	ис	ша	ie V	e100	шy				-			1										H					1		H	-	\dashv	+
		1	17	-(\vdash	(ft/s)				 	1	.27	 			<u> </u>					Н		H					1		\vdash	-	-	+
H		+	V	= 7		UVSI			V	=		.68	-	1.16	ft/s				-		H		H				1	1		H	\dashv	\dashv	+
H		-							\vdash).	.00				Ι							H				\vdash	\vdash		H	\dashv	+	+
																			-								1	1			-+	\dashv	-
					Thi	s is loc	s tha	n 2 ft/s		YE	S		there	fore reco	mm	end	ations for th	ne Wat	er i	Qualit	St	orm ar	e me	o t				1		H	+	\dashv	+
		1			1111	, 13 163	lina	2 11/3		IL	,		incre	,016, 1660		inu	anons joi ii	ic mui	-, ,	رسس	, 510	, m ur	- me								\dashv	-	+
										1																	1	1		\vdash		+	+
										1																	1	1		\vdash		+	+
																							H				1	H			\dashv	\dashv	-
H		1	=		=								<u> </u>						1					_			1				+	\dashv	+
ш							L		1		\Box		1	ı							_								I	ш			

Project: Location:	Waterworks Park Improvements Mission, KS	By: Checked:	DBM CLP	Date: Date:	6/27/2023 6/28/2023
1. Require	ed Treatment Acres				
	A. Total Area Disturbed by Redevelopment Activity	y (ac.):			
	Disturbed Area Description			Acres	
	Playground			0.15	7
	Asphalt Trail and Park	ing		0.31	
	Grass			2.67	4
					-
			"1A" Total:	3.13	
	B. Existing Impervious Area Inside Disturbed Area	(ac.):			
	Existing Impervious Area Description			Acres	
	Asphalt Trail and Park	ing		0.31	
					4
			"1B" Total:	0.31	
	C. Required Treatment Area (ac.):				
	"1A" Total Less "1B" To	otal	"1C	2.82	2
2. Percent	t Impervious in Postdevelopment Condition and	d Level of Serv	ice (LS)		
	A. Total Postdevelopment Impervious Area Inside	Disturbed Area	(ac.):		
	Postdevelopment Impervious Area Description			Acres	
	Multi-Use Trail and She	elter		0.67	
	Parking Lot			0.17	
					4
					1
			"2A" Total:	0.84]
	B. Existing Impervious Area Inside Disturbed Area	(ac.)			
		. (,	"1B" Total:	0.31	1
	C. Net Increase in Impervious Area (ac.)				
	"2A" Total Less "1B" To	otal	"2C" Total:	0.53	3
	D. Percent Impervious				
	Net Increase in Impervious Ar	rea / Required 1	Freatment Area	n	-(Pound to
		"2C"/"1C" x 10	0	19%	(Round to Integer)
	E. Level of Service				-
	Use Percent Impervious to Enter Table	4.3	LS =	4.5	5
3. Minimu	ım Required Total Value Rating of BMP Packag	e			
	Total Value Rating = LS x Required Treatment A	rea	VR =	12.68	3

WORKSHEET 1A: REQUIRED LEVEL OF SERVICE - DEVELOPED SITE

WORKSHEE	T 2: DEVELO	PED MITIGATION	N PACKA	GE(S) THAT I	MEET THE RI	EQUIRED LS	,	
Project: Location: Sheet	Misson, KS	Park Improvement of	s 1		By: Checked:	DBM CLP	Date: Date:	6/27/2023 6/28/2023
	1 I I S (New Dev	velopment, Wksl		Total VR (Red	levelonment	Wkeht 1A)	Г	12.68
1. Nequired		s BMPs may alter (•	
	Note. various	s bivirs may after t	on or prop	osed develop	oment, and Lo	, recalculate	рост п аррпса	ible
2. Proposed	d BMP Option	n Package No.		1	VR from			
				Treatment	Table 4.4	Product of		
	Cover/BMP	Description		Area	or 4.6 ¹	VR x Area		
	Native Veg.			2.92		11.68		
	Native Veg.	(reestablished)		0.21	9.25	1.94		
			Total ² :	2.42	Totale	12.60		
			iotai .		Total: eighted VR:	13.62	= total product/	total area
	1	VR calculated for	final BMF		_		. ,	
	2	Total treatment a		ot exceed 100	percent of th	e actual site	area	
	*	Blank In Redevelo	opment					
	Meets requi	ired LS (Yes/No)	?		Yes	-	idditional optio	ns are being
						tested, proc	eed below)	
3. Proposed	d BMP Option	n Package No.			VR from			
				Treatment	Table 4.4	Product of		
	Cover/BMP	Description		Area	or 4.6 ¹	VR x Area	_	
			2					
			Total ² :	*\^	Total:		_ total avaduat	total avaa
	1	VR calculated for	final BMF		eighted VR:		= total product/	ıotai area
	2	Total treatment a		-		e actual site	area	
	*	Blank In Redevelo						
	Mooto resur	irod I C /Voc /Nov	2	Ī		/IENI - 15	arateta t t	and the state of
	wicers redui	ired LS (Yes/No)	:			(If No, or if a tested, proc	idditional optio eed below)	ns are being





6800 College Boulevard, Suite 750 Overland Park, KS 66211 Tel. 913-905-3415 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that

Consultants

Civil Engineering

Wilson & Company

authorized by Stantec is forbidden.

Structural Engineering
Stand Engineering

Signage Design
Star Signs

Note

Issued

By Appd.

File Name:

Dwn. Chkd. Dsgn.

Permit-Seal

Client/Project

CITY OF MISSION

WATER WORKS PARK

Mission, KS

·le

DRAINAGE AREA MAP

Project No.
193806110

Drawing No.
Sheet
Revision

C-100

ORIGINAL SHEET - ARCH E1