GENERAL NOTES

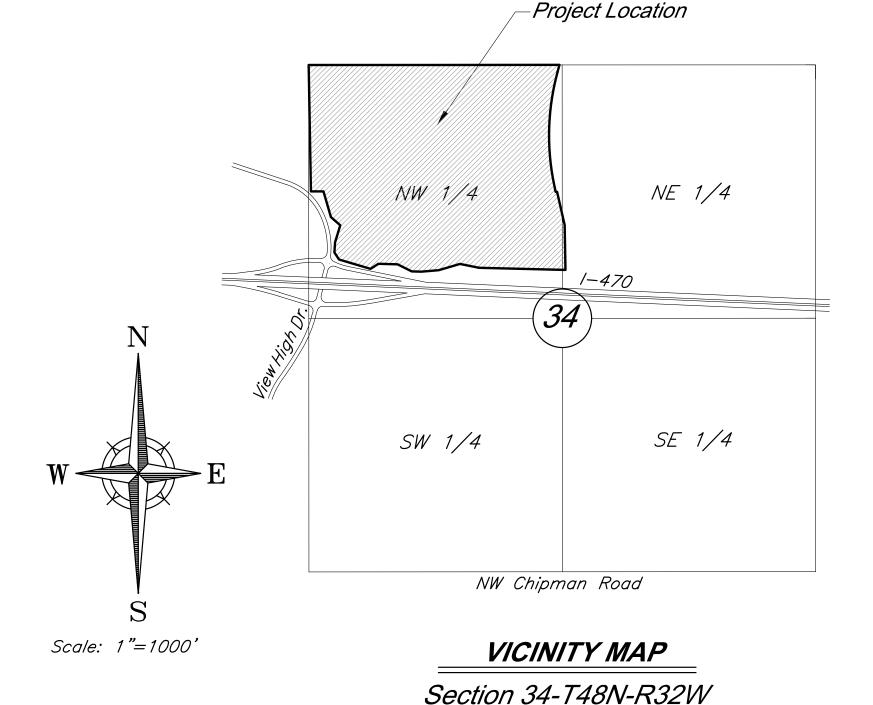
- 1. The construction covered by these plans shall conform to the current "City Standards" and specifications of the Public Works Department, Kansas City, Missouri, except as noted. It shall be the Contractors responsibility to have one copy of these approved plans and the most current standards and specifications on the job site at all times.
- 2. The location and size of existing utilities is approximate. The location and elevation of all utilities must be verified in the field by the contractor prior to the start of construction and notify the Engineer of any discrepancies.
- 3. Existing elevations shown are on Kansas City, Missouri datum. The contractor shall field verify existing ground conditions prior to the start of construction.
- 4. Contractor shall control downstream erosion and silting during construction.
- 5. Any debris/material that is to be hauled off site requires a haul permit from the KCMO Public Works Department at City Hall (5th Floor). Contractor to Contact Jerry Tapscott for permitting and/or details at (816)513–2678.
- 6. Prior to ordering pre—cast structures, shop drawings are to be submitted to the design engineer for approval. The design engineer shall indicate approval of the shop drawings and add the permit type and number on them and then submit them to the City Planning & Development Dept., Land Development Division, Development Services on the 5th floor of City Hall, 414 E. 12th St. KCMO 64106.

SUMMARY OF QUANTITIES

| No. | DESCRIPTION | UNIT | QUANTITY |
|-----|--------------------------------|------|----------|
| 1 | Manholes | E.A. | 20 |
| 2 | Reinforced Concrete Encasement | L.F. | 60 |
| 3 | 8" SDR 26 PVC | L.F. | 4916 |
| 4 | 6" SDR 26 PVC Service Lateral | L.F. | 112 |

| NOT FOR CONSTRUCTION | |
|---------------------------|--|
| REVIEWED FOR CONSTRUCTION | |

KCMO PROJECT NUMBER KCMO FILE NUMBER



SANITARY SEWER PLANS

FOR

PARAGON STAR DEVELOPMENT

Sections 34-Township 48-Range 32

City of Lee's Summit

Jackson County, Missouri

For Construction Sanitary Sewer Improvements

REVIEW ENGINEER

DEPARTMENT OF CITY
PLANNING & DEVELOPMENT
KANSAS CITY, MISSOURI

CONSTRUCTION PERMIT MUST BE SECURED WITHIN ONE YEAR OF REVIEW

| Sht. No. | Description | | | |
|------------|-------------------------|--|--|--|
| 1 | Title Sheet | | | |
| 2 | General Layout | | | |
| <i>3</i> | Plan & Profile - Line A | | | |
| 4 | Plan & Profile - Line B | | | |
| <i>5-6</i> | Plan & Profile - Line C | | | |
| 7 | Plan & Profile Line D | | | |
| <i>8-9</i> | Sanitary Sewer Details | | | |

INDEX OF SHEETS

This project has been designed, and these plans prepared, to meet or exceed the design criteria of Kansas City, Missouri in current usage, except as indicated below: Exceptions: None

- I have been retained to provide "as-built" drawings for this project. The policy of the "Plan Preparation Criteria and Procedure" and Policy Document No. 880544 "As-Built Drawings for Sewer Built by Permit" stipulate the following regarding "as-built" drawings:
- 1. Drawings are to be provided within thirty (30) days after the date the "Request for As-Builts" letter is issued by the City to the Contractor.
- 2. Drawings must be accepted by the City before any service connections will be allowed.

 3. Drawings are part of the permit obligations making them the responsibility of the permittee.

PROJECT ENGINEER: DATE:

I have reviewed these plans and understand what is proposed. The work will be accomplished in one contract.

Any incidental work not specifically permitted (i.e. final cleanup) will be completed by the grading contractor.

This Erosion Control Plan has been placed in the City's file for this project. The plan appears to fulfill the Missouri Department of Natural Resources technical criteria and the criteria for Erosion Control and requirements of the City. I understand that additional erosion control measures may be needed if unforeseen erosion problems arise or if the submitted plan does not function as intended. The requirements of this plan shall run with the land and be the obligation of the land owner until such time as the plan is properly completed, modified or voided.

APPLICANT: DATE

APPROVED:

CITY ENGINEER:

DATE:

architects engineers

9801 Renner Boulevard Lenexa, Kansas 66219 9 1 3 . 4 9 2 . 0 4 0 0 www.gbateam.com

UTILITY CONTACTS Gas Mr. Donnie Richards

Sanitary Sewers Mr. Jeff Thorn, PE

City of Lee's Summit Water Utilities

1200 SE Hamblen Road

Lee's Summit, MO 64063

(816) 969-1922

email: jeff.thorn@cityofLS.net

Mr. Donnie Richards

Missouri Gas Energy

7500 E 35th Terrace

Kansas City, MO 64129

(816) 472-9464

Fax (816) 472-3488

email: donnie.richards@sug.com

Mr. Jeff Shook

Little Blue Valley Sewer District

Mr. Jeff Shook
Little Blue Valley Sewer District
21101 East 78 Highway
Independence, MO 64057
(816) 285-1522
email: jshook@lbvsd.net

Cable Television
Time Warner Cable
8221 W. 119th Street
Overland Park, KS 66213
(913) 643-1950
email: greq.thomas@twcable.com

Mr. Jeff Thorn, PE
City of Lee's Summit Water Utilities
1200 SE Hamblen Road
Lee's Summit, MO 64063
(816) 969-1922

(913) 643-1950
email: greg.thomas@

Telephone
Ms. Glenda Charles
AT&T

email: jeff.thorn@cityofLS.net

1425 Oak Street
Kansas City, MO 64106
(816) 365–1669

Mr. Nathan Michael
Kansas City Power & Light
P.O. Box 418679
Kansas City, MO 64141

PROJECT WATERSHED

This project is located in the Little Blue River Watershed.

FLOOD ZONE DESIGNATION

This project is in Zone X-Areas outside the 0.2% chance floodplain, Zone AE Floodplain, and Other Flood Zone X, according to the FEMA Flood Insurance Rate Map 29095C0404G, dated January 20, 2017.

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive.
EL=833.80

DEVELOPED AND OWNED BY:
PARAGON STAR LLC
801 NORTHWEST COMMERCE CENTER
LEE'S SUMMIT, MISSOURI 64086
PHONE: (816) 802-6801
CONTACT: Mr. Flip Short
EMAIL: fshort@legacytouch.com

PREPARED & SUBMITTED BY:
GEORGE BUTLER ASSOCIATES, INC.
9801 RENNER BOULEVARD
LENEXA, KANSAS 66219
PHONE: 913-492-0400
FAX: 913-577-8312
CONTACT: BRAD BURTON P.E.
EMAIL: BBURTON@GBATEAM.COM

Missouri One Call System 1-800-344-7483 (DIG-RITE)

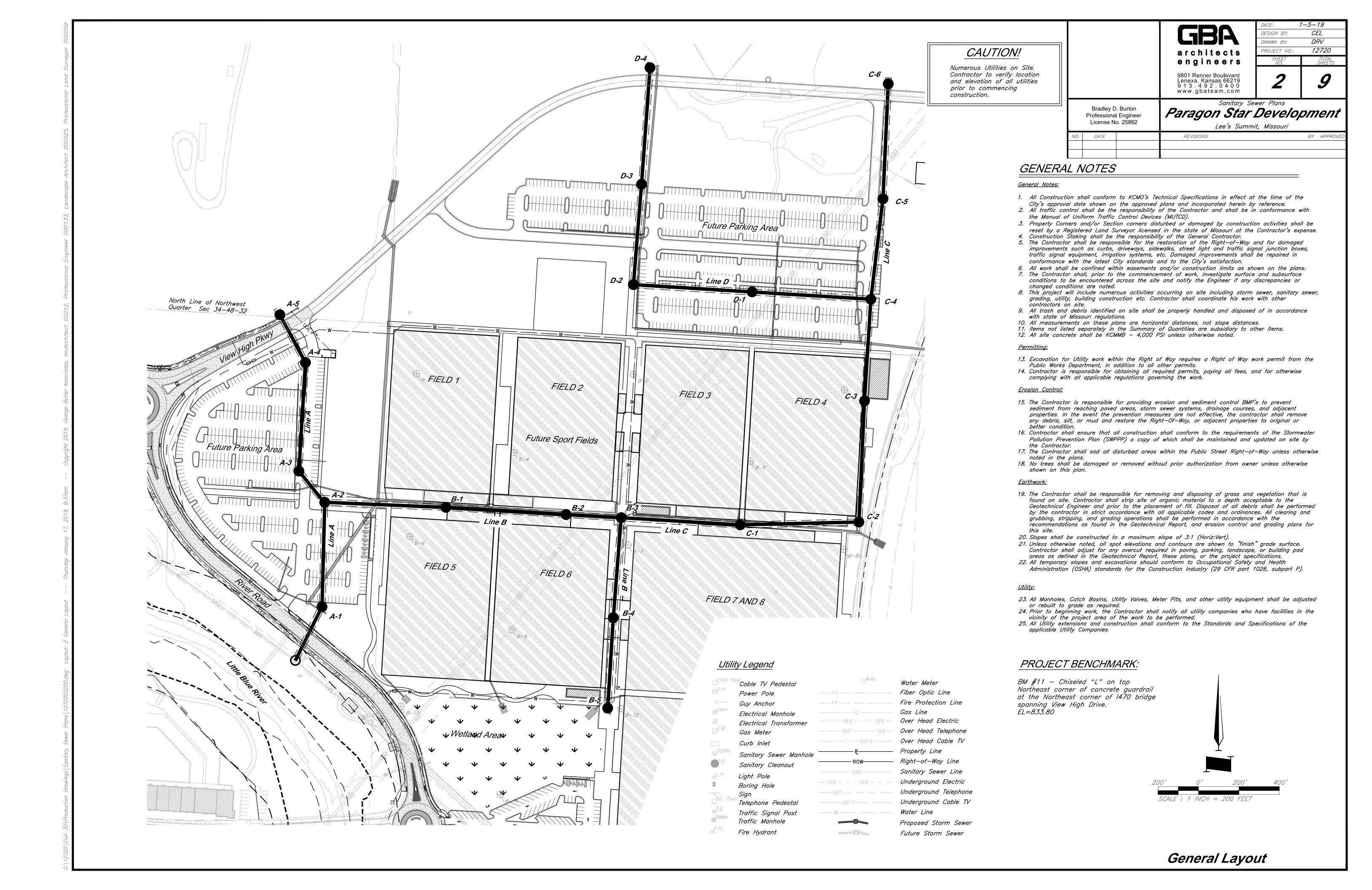
(816) 220-5210

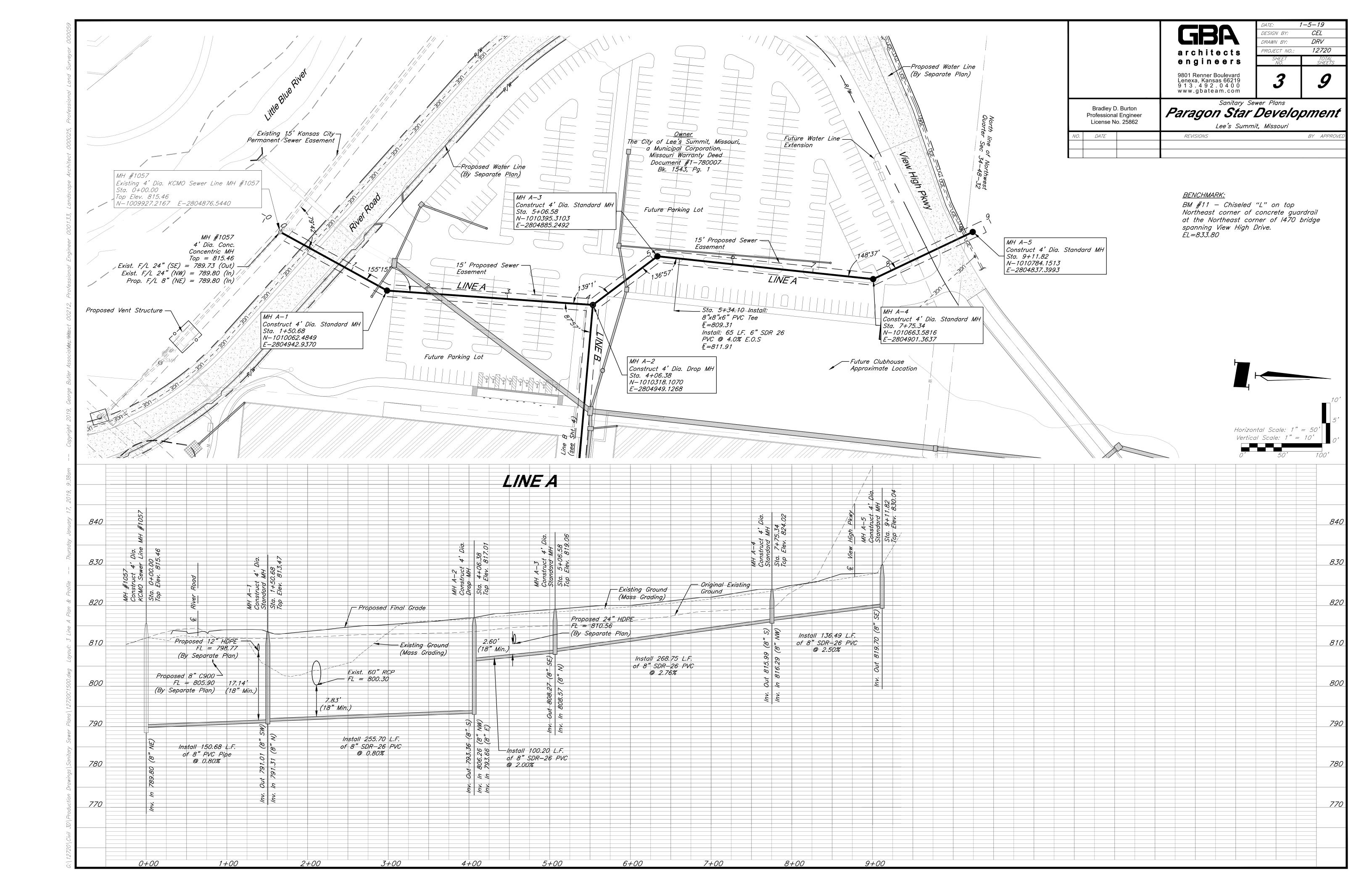
Fax (816) 245-3623

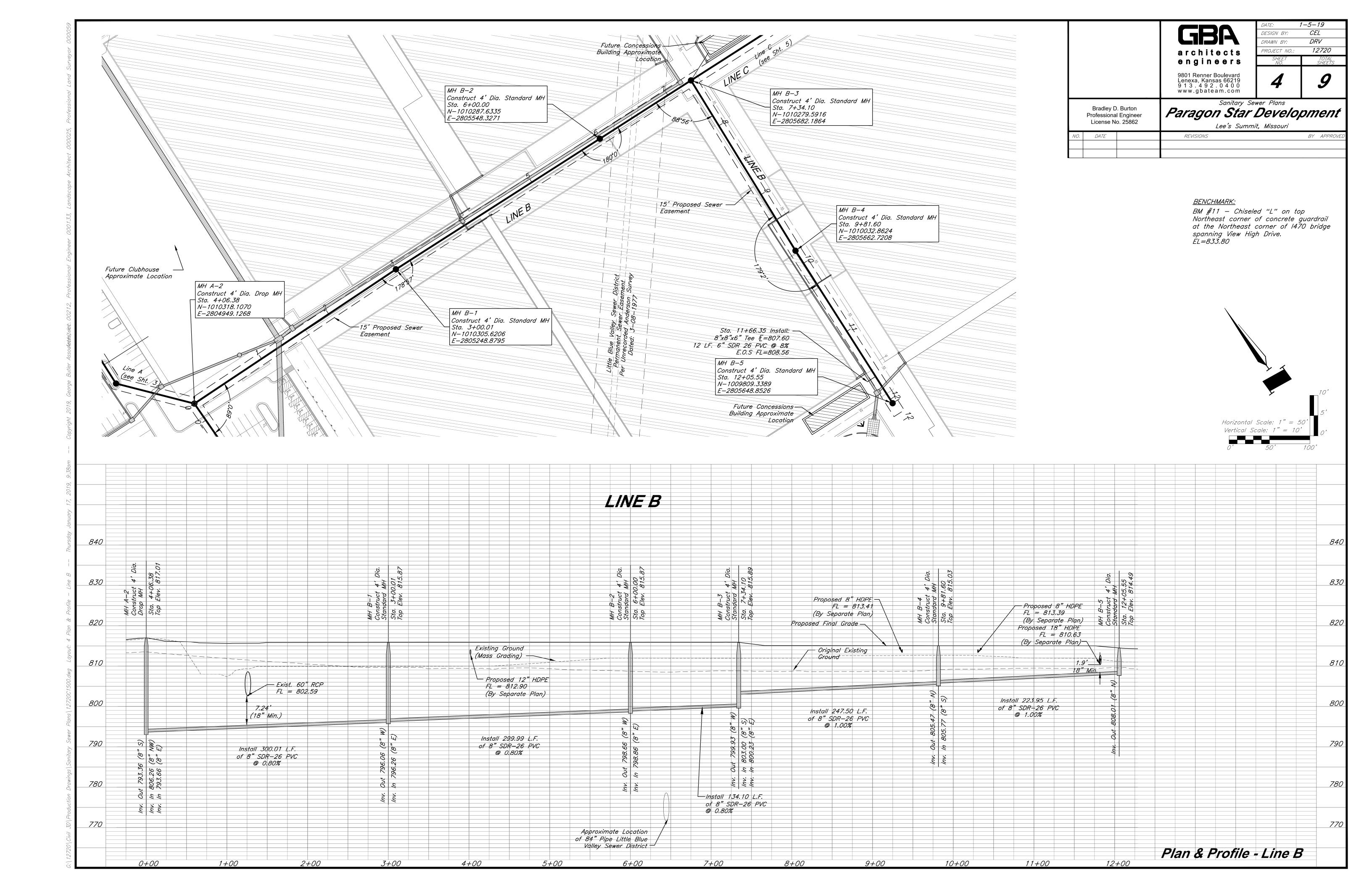
email: Nathan.Michael@kcpl.com

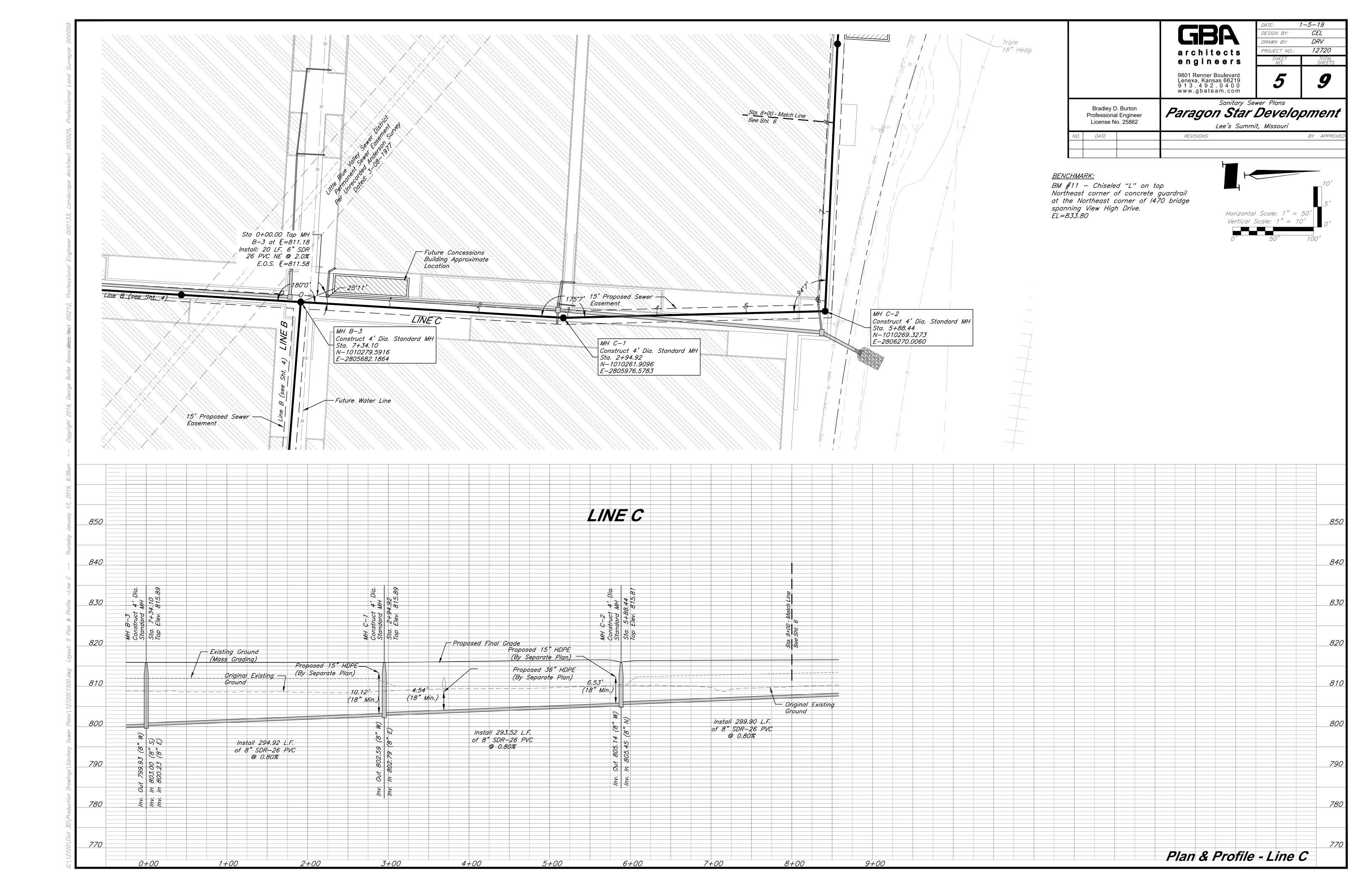
Water

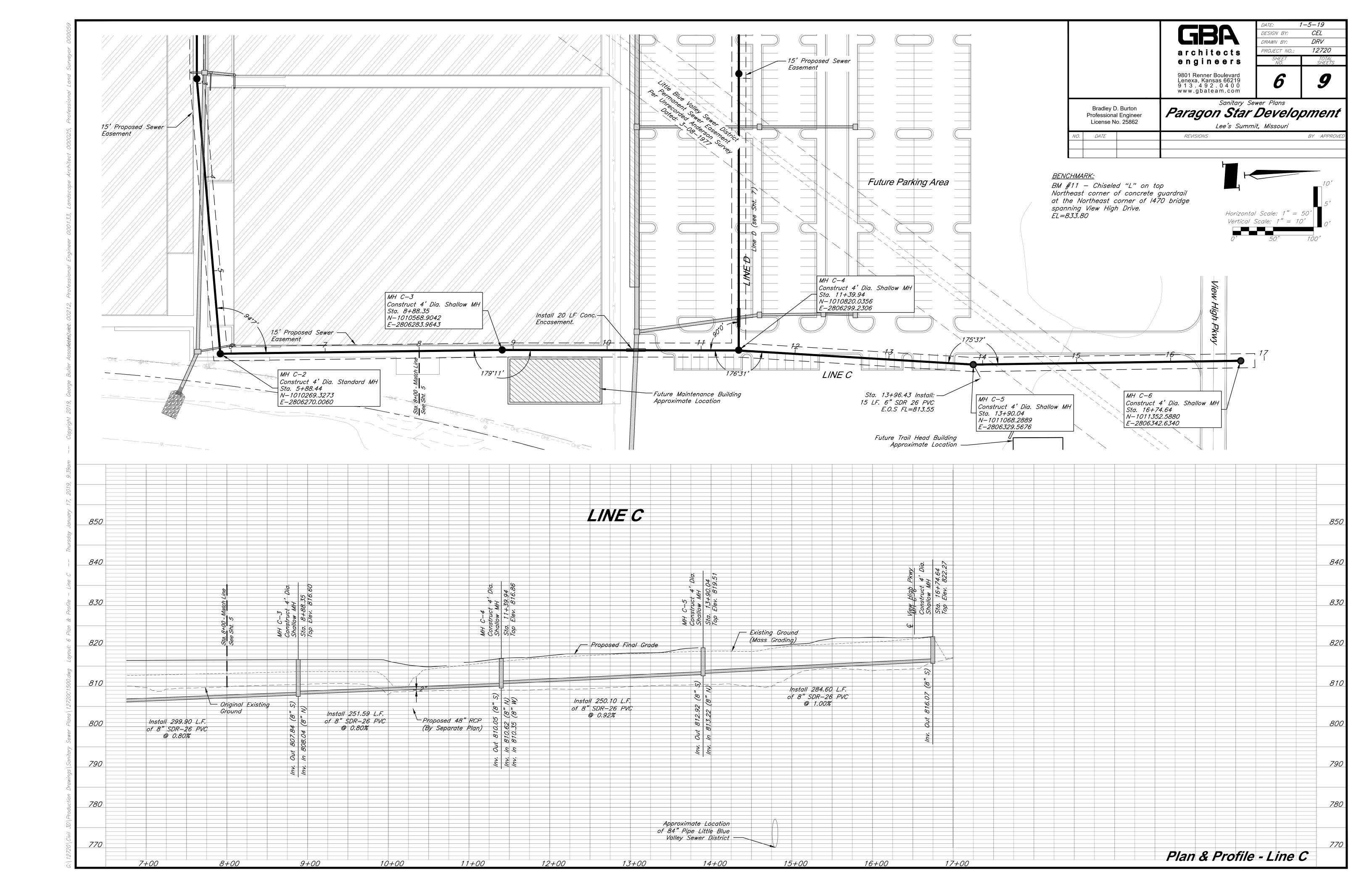
Electric Service

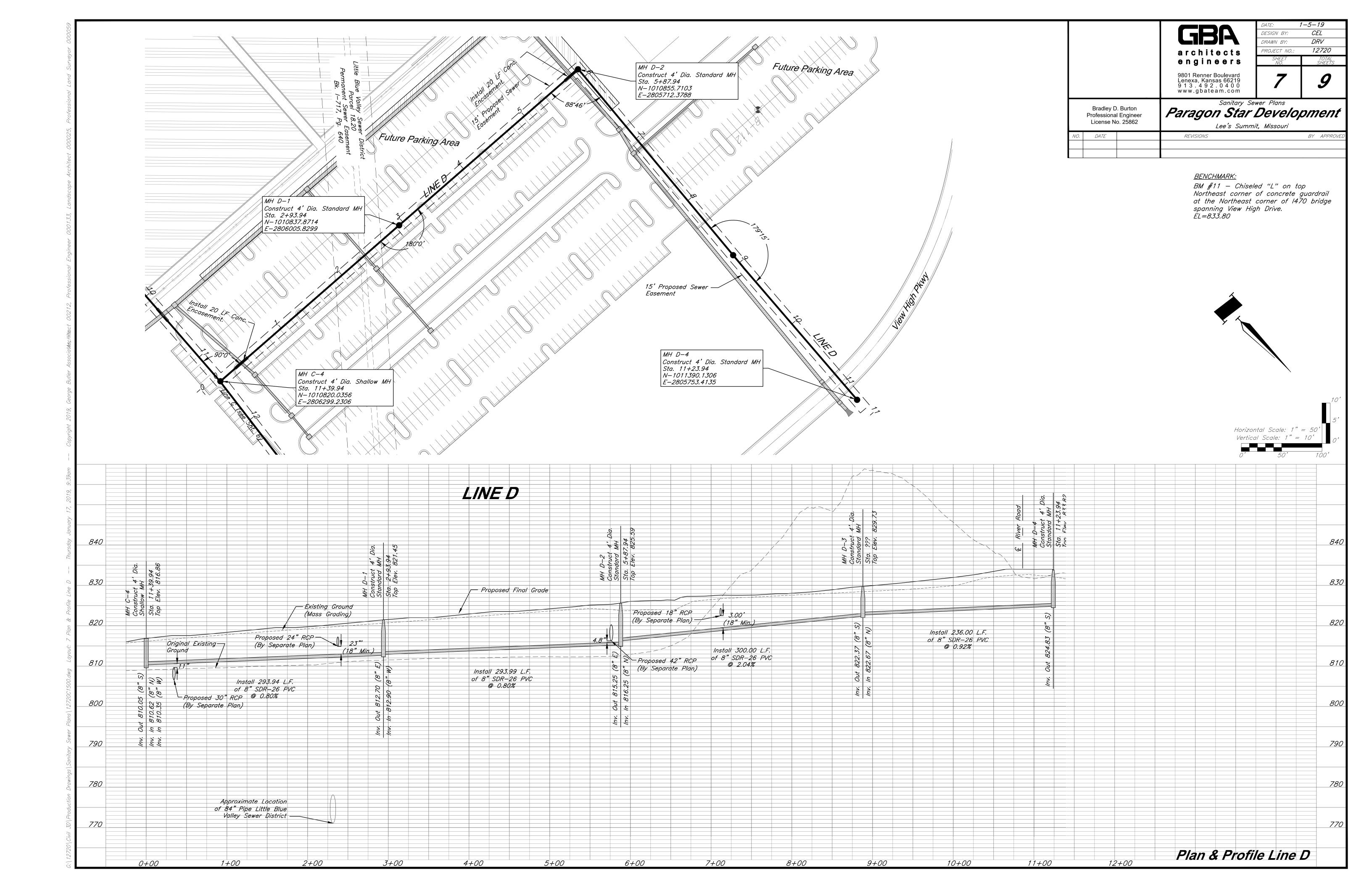


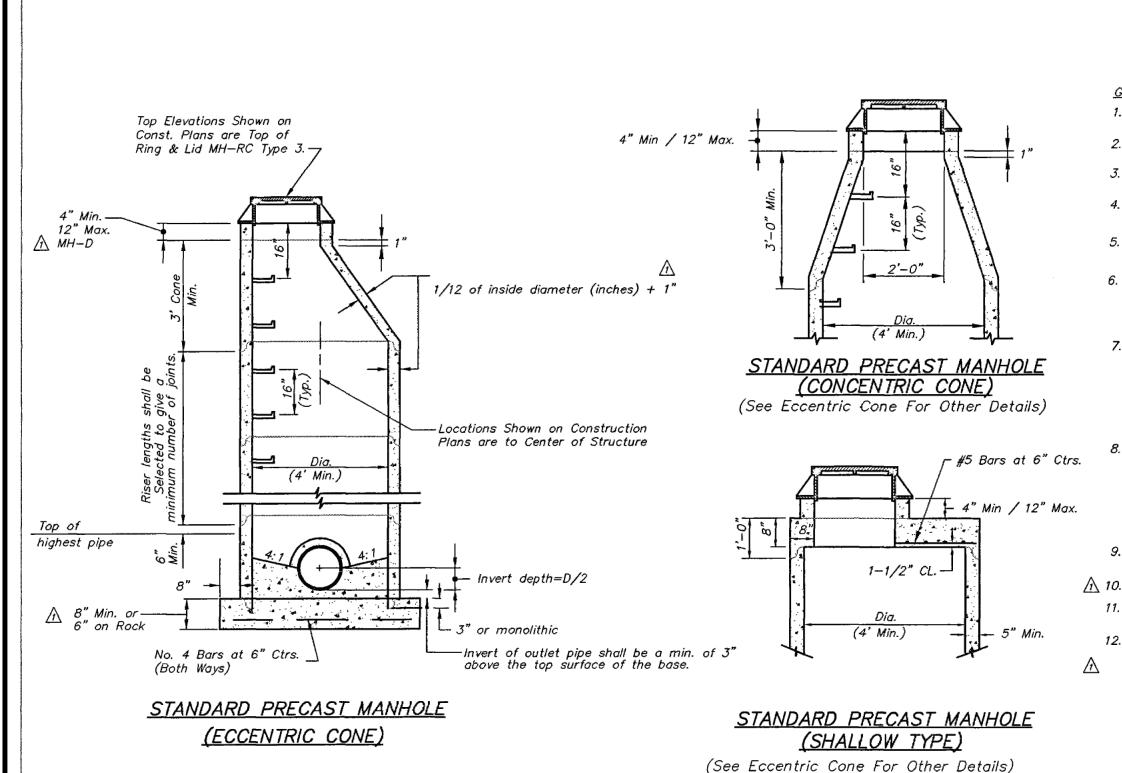


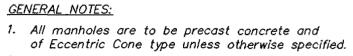












2. Manhole top adjustments shall be accomplished by the use of concrete adjustment rings. 3. Top of manhole casting shall be set flush and on same

slope as finished surface or as directed by the Engineer. 4. Reinforcement in all sections shall equal or exceed A.S.T.M. C-478 specifications.

5. The engineer shall designate modifications for manholes with special designs.

6. The inside diameter of the manhole shall be 4'-0" for pipe diameters from 12" thru 24", 5'-0" for pipe diameters from 27" thru 36", and 6'-0" for pipe diameters 42" thru 48".

7. Clearance Tolerance of Pipe Openings: The Maximum Allowable Pipe Opening on a Horizontal Axis Shall be the Outside Diameter of the Pipe Plus 12". The Maximum Allowable Pipe Opening on Vertical Axis Shall be the Outside Diameter Plus 8". The Minimum Clearance Between the Outside Surface of an Installed pipe and the Concrete of the Manhole Shall be 2".

8. Installation of Pipe Openings: All required pipe openings shall be plant cast in manhole units. Field alterations of openings will be permitted provided walls are scored with a masonry saw to a depth sufficient to sever reinforcing steel. A chipping hammer may then be used to remove the concrete. Minimum distance between any two adjacent pipes shall be 4".

9. No direct payment for shaping floor or connecting pipes as shown on plans.

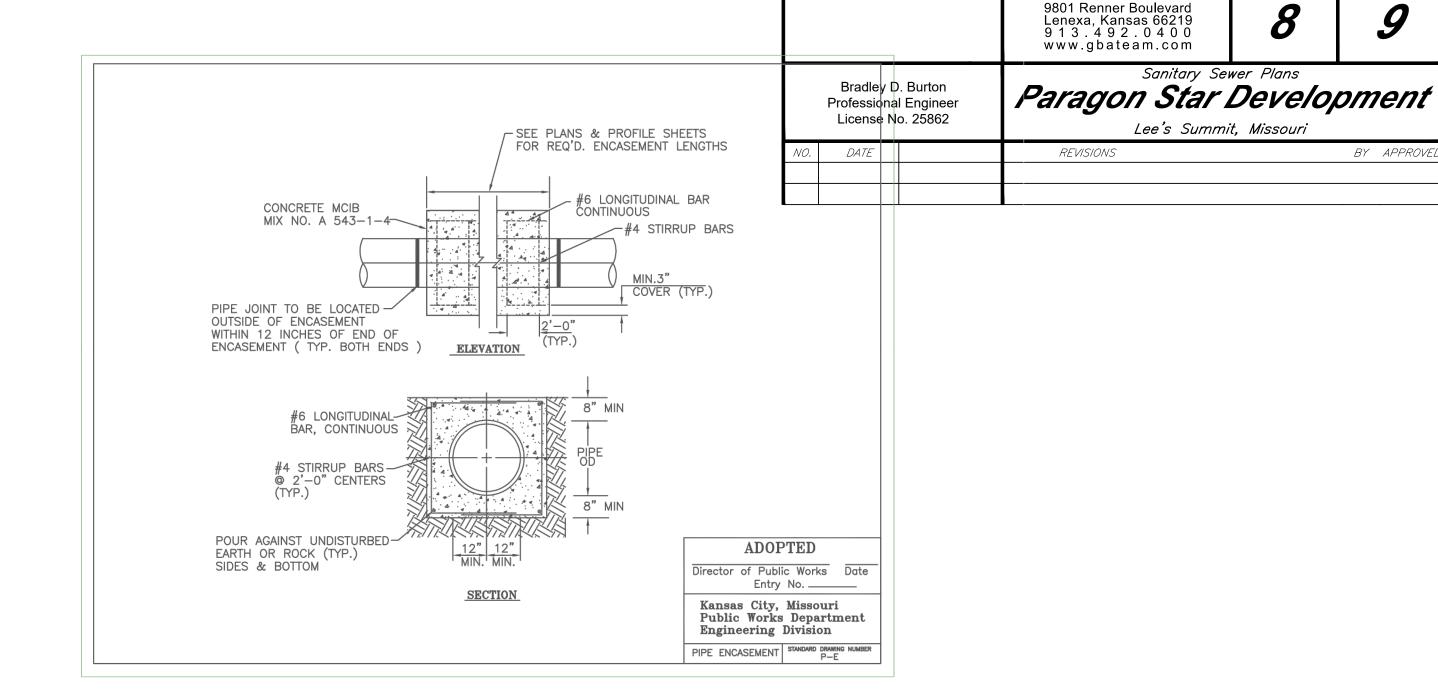
↑ 10. Use KCMO Standard MH-RC Type 3 ring and cover.

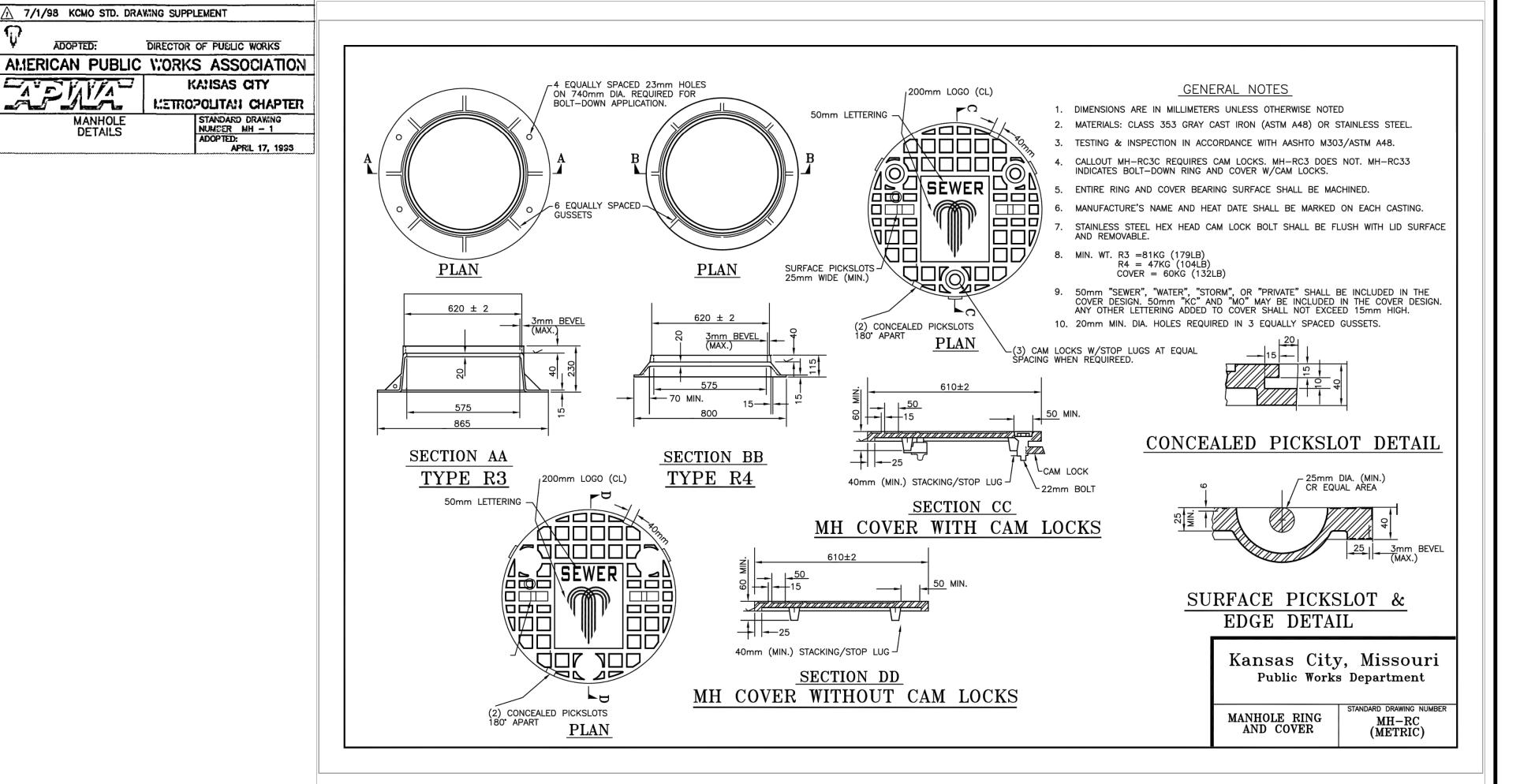
11. Sanitary Sewer Manholes shall be coated and conform

7/1/98 KCMO STD. DRAWING SUPPLEMENT

MANHOLE DETAILS

12. 4" ø field tile shall be located at entering pipes when used on storm sewers. These tiles shall be capped with 1/4" galvanized wire mesh on the outside of the structure, and clear the invert and base concrete.





1-5-19 CEL

12720

DESIGN BY: DRAWN BY:

architects engineers PROJECT NO.:

