

G:\Archive\2019\1249 - PARAGON VILLAGE\DRAWINGS\CAD\SHEETS\MULTIFAMILY\000 COVERSHEET-FDP-MULTIFAM.dwg, 1/28/2022 10:36:55 AM
MICHAEL KILLEN
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PARAGON STAR VILLAGE

3200 NW Paragon Parkway, Lee's Summit, MO

January 28, 2022

North Village Package - Final Development Plans

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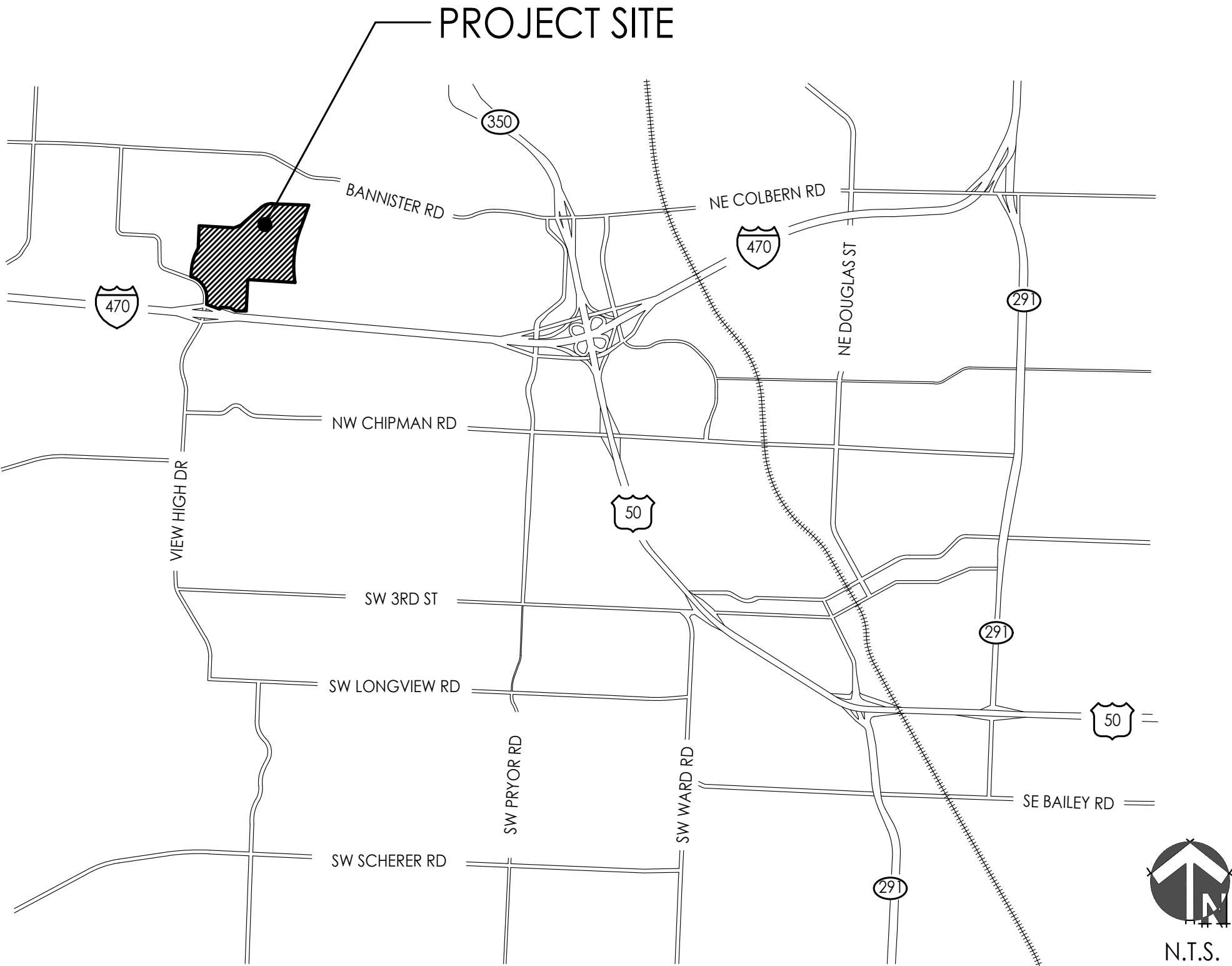
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PLANS PREPARED BY



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

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PROFESSIONAL SEAL:

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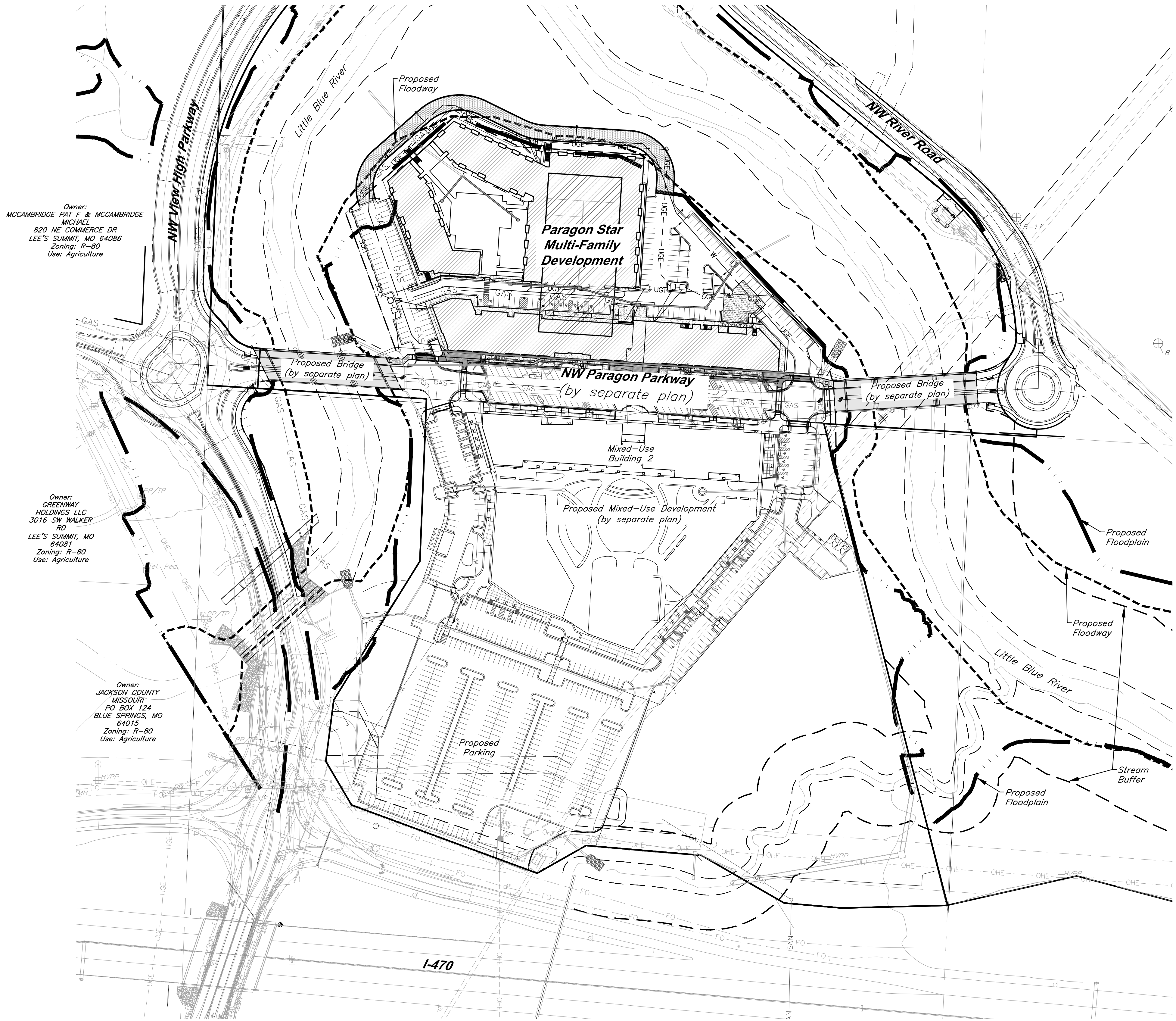
DRAWING TITLE:

**FDP
COVERSHEET**

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: MRK

SHEET NO:

G:\127201 Civil 3D\Production Drawings\LS Multifamily FDP\1272020200.dwg Layout: C001 General Site Plan -- Friday, January 28, 2022, 10:09am -- Copyright 2022, George Butler Associates, Inc. THE PROFESSIONAL WHOSE SEAL SIGNATURE AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE AND DISCLAIMS (Pursuant to Section 327.411, RSMo) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INTENDING TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



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Email: jhealy@gbteam.com

Floodplain:

According to FEMA Flood Insurance Rate Map (FIRM) Community Panel No. 29095C0404G, effective Date 1/20/17, the tract lies partially within an area designated as Special Flood Hazard Areas. Special Flood Hazard Areas defined on portions of the site include regulatory floodway, Zone AE (with depths identified on site from 810 to 811), and 0.2% Annual Chance Flood Hazard Areas.

A CLOMR has been issued for this project, case number 20-07-0520R, dated 2/14/20. Proposed Floodplain/ Floodway refers to boundary set by this CLOMR.

Zoning:

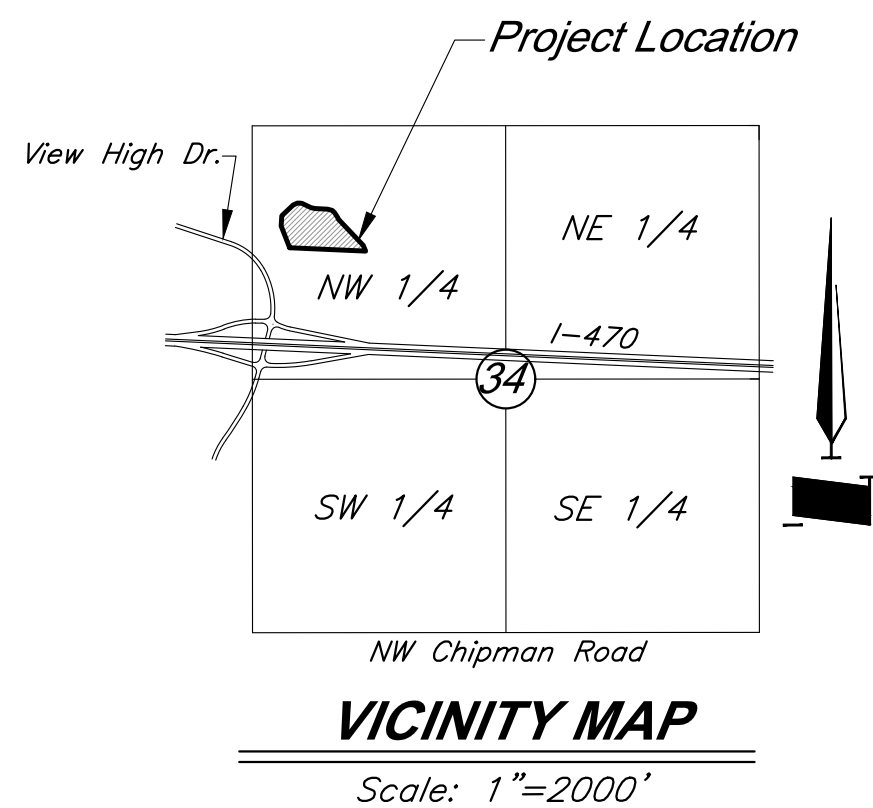
PMIX - Planned Mixed Use

Parking:

Total Parking Spaces = 661
Regular Spaces = 648
ADA Spaces = 13

Notes:

1. No oil or gas wells are located on site per Missouri Department of Natural Resources.



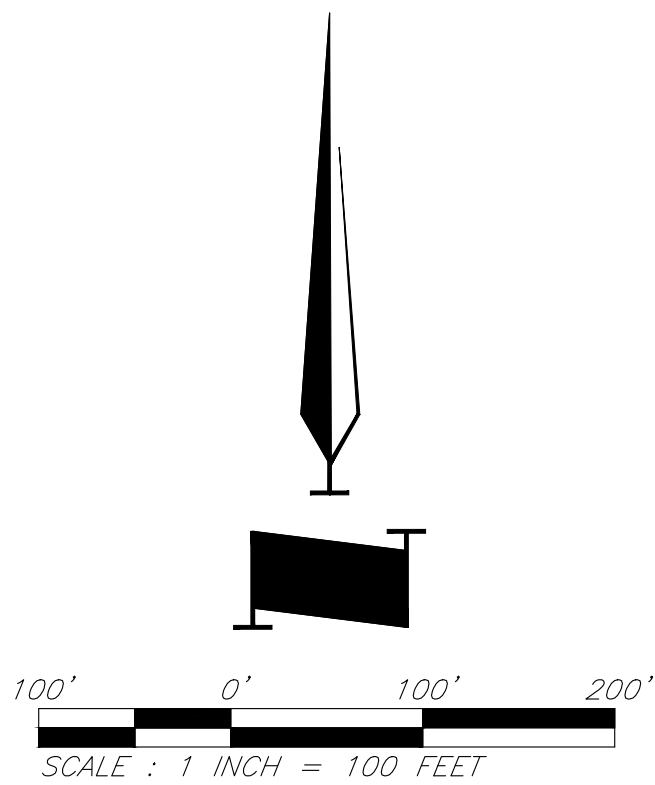
Legend

| | | | |
|--|---------------------------|--|-----------------------|
| | Power Pole | | Barbed Wire Fence |
| | Guy Anchor | | Centerline |
| | Electric Meter | | Fiber Optic Line |
| | Electrical Transformer | | Gas Line |
| | Electric Pedestal | | Guard Rail |
| | Power Pole/Telephone Pole | | Over Head Electric |
| | Power Pole/Light Pole | | Over Head Telephone |
| | Gas Meter | | Property Line |
| | Gas Valve | | Right-of-Way Line |
| | Curb Inlet | | Sanitary Sewer Line |
| | Junction Box | | Stream |
| | Sanitary Sewer Manhole | | Underground Electric |
| | Light Pole | | Underground Telephone |
| | Boring Hole | | Underground Cable TV |
| | Sign | | Water Line |
| | Property Corner | | Proposed Grades |
| | Telephone Manhole | | Proposed Storm Sewers |
| | Telephone Pedestal | | Existing Grades |
| | Telephone Pole | | Existing Storm Sewers |
| | Proposed Building | | Tree Deciduous |
| | | | Fire Hydrant |
| | | | Water Meter |
| | | | Proposed Floodway |
| | | | Proposed Floodplain |
| | | | Stream Corridor |

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of I470 bridge spanning View High Drive.
Coordinates: N=1008590.33', E=2803864.07', EL=833.80

BM #13 - Chiseled "L" on NE corner of Interstate 470 and Cedar Creek Bridge
Coordinates: N=1008342.79', E=2806758.22', EL=852.04'



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Final Development Plan

ISSUE:

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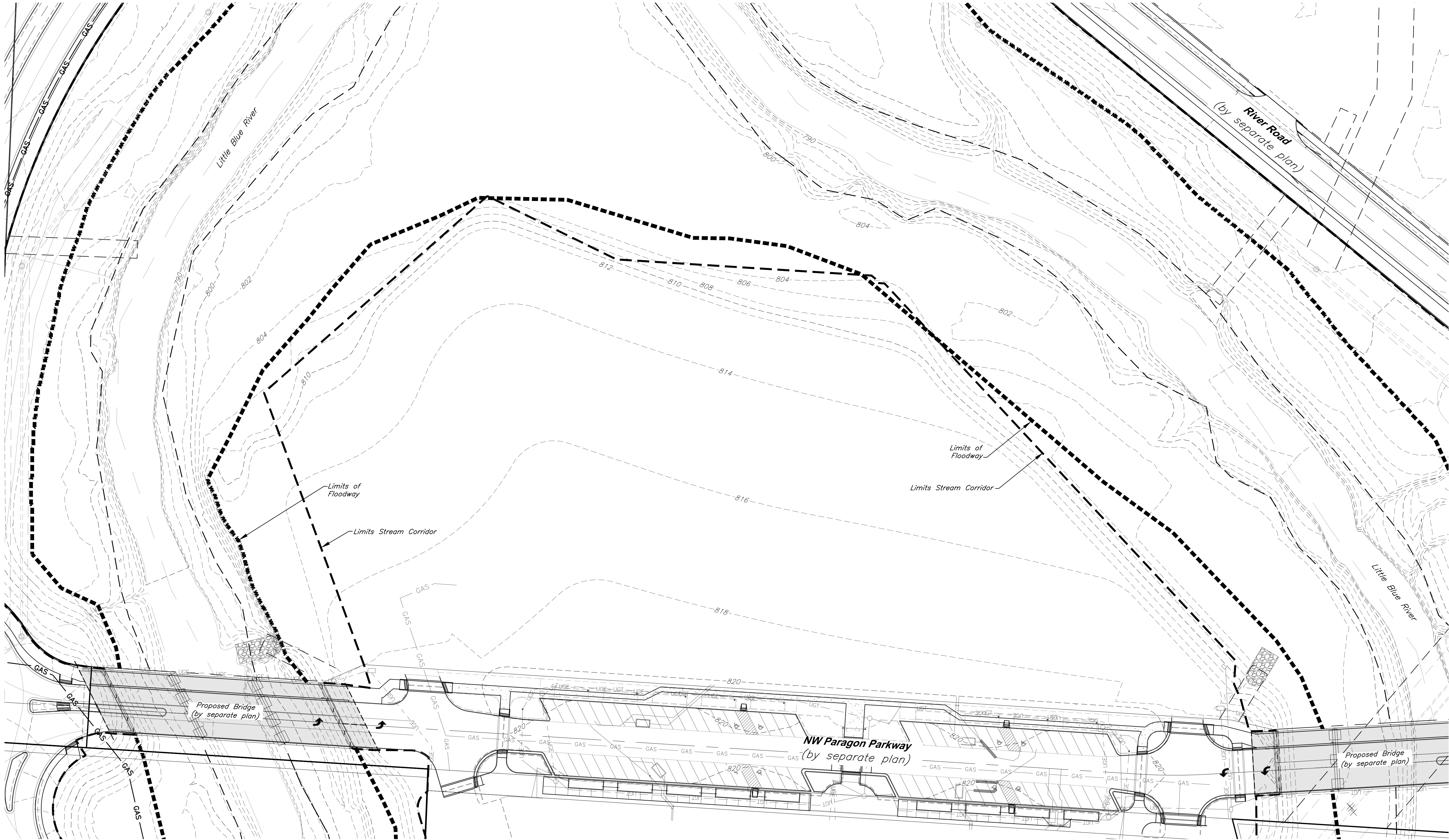
General Site Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

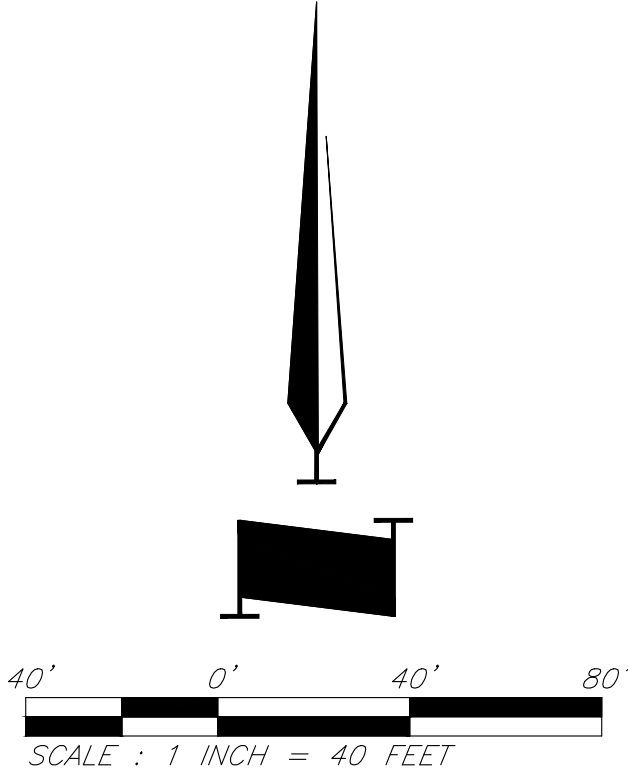
C001

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CAUTION!
Numerous Utilities on site. Contractor
to verify location and elevation of all
utilities prior to commencing
construction.

- LEGEND**
- Existing Contour
 - Existing Flood Zone AE
 - Existing Flood Zone X
 - Stream Corridor
 - Proposed Floodplain
 - Proposed Floodway



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

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**Existing
Conditions**

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C002

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FDP BOUNDARY DESCRIPTION

A tract of land being all of Lot 2, Paragon Star First Plat, a subdivision in the North Half of Northwest Quarter of Section 34, Township 48 North, Range 32 West of the Fifth Principal Meridian, in the City of Lee's Summit, Jackson County, Missouri, more particularly described as follows:

Commencing at the Northwest Corner of the Northwest Quarter of said Section 34; thence South 02°25'47" West, along the West line of said Section, a distance of 895.66 feet, to a point on a non-tangent curve, said point also being the Point of Beginning; thence Northeasterly, departing said West line, along a curve to the right, having a radius of 648.00 feet, a central angle of 54°41'08", and an initial tangent bearing of North 15°06'40" East, a distance of 618.48 feet, to a point of tangency; thence North 69°47'48" East, a distance of 235.03 feet, to a point of curvature; thence Northeasterly and Southeasterly, along a curve to the right, having a radius of 84.00 feet, and a central angle of 91°10'09", a distance of 133.66 feet, to a point of tangency; thence South 19°02'03" East, a distance of 13.19 feet, to a point of curvature; thence Southeasterly, along a curve to the left, having a radius of 616.00 feet, a central angle of 18°21'00", a distance of 197.28 feet, to a point of compound curvature; thence Southeasterly, along a curve to the left, having a radius of 540.00 feet, a central angle of 13°19'41", a distance of 125.61 feet, to a point of tangency; thence South 50°42'44" East, a distance of 438.70 feet, to a point of curvature; thence Southeasterly, along a curve to the right, having a radius of 370.00 feet, and a central angle of 21°49'29", a distance of 140.94 feet, to a point of compound curvature; thence Southeasterly and Southerly, along a curve to the right, having a radius of 264.00 feet, and a central angle of 12°30'46", a distance of 57.65 feet, to a point of compound curvature; thence Southerly, along a curve to the right, having a radius of 368.00 feet, and a central angle of 13°59'23", a distance of 89.85 feet; thence South 01°25'13" East, a distance of 3.16 feet, to a point on a non-tangent curve; thence Southerly and Southwesterly, along a curve to the right, having a radius of 48.98 feet, a central angle of 56°47'34", and whose initial tangent bearing is South 01°25'22" East, a distance of 48.55 feet, to a point of compound curvature; thence Southwesterly and Westerly, along a curve to the right, having a radius of 112.00 feet, and a central angle of 31°18'53", a distance of 61.21 feet, to a point of tangency; thence South 86°41'02" West, a distance of 214.11 feet; thence North 78°36'20" West, a distance of 41.68 feet; thence North 86°20'31" West, a distance of 743.41 feet; thence South 83°16'48" West, a distance of 64.46 feet; thence North 84°23'47" West, a distance of 159.95 feet, to a point of curvature; thence Westerly and Northwesterly, along a curve to the right, having a radius of 111.50 feet, and a central angle of 33°14'40", a distance of 64.69 feet, to a point of compound curvature; thence Northeasterly, along a curve to the right, having a radius of 84.00 feet, a central angle of 16°00'54", a distance of 23.48 feet, to a point of reverse curvature; thence Northwesterly, along a curve to the left, having a radius of 106.00 feet, a central angle of 07°58'31", a distance of 14.75 feet, to a point of reverse curvature; thence Northwesterly, along a curve to the right, having a radius of 84.00 feet, a central angle of 12°03'20", a distance of 17.67 feet, to a point on said West line; thence North 02°25'47" East, along said West line, a distance of 280.21 feet, to the Point of Beginning, containing 854,869.97 square feet or 19.63 acres, more or less.

Coordinates Shown Hereon:

Modified State Plane (Project Ground Coordinates)
2403 - Missouri West, U.S. Feet
Vertical - NAVD83, U.S. Feet

CAF=0.99990648
Coordinates x CAF = State Plane

CP #100 - 1/2" rebar with GBA cap on South side of View High Drive, 18' West of asphalt field entrance, approximately 975' North along the centerline of View High Drive from the ramp to West bound I-470.
Coordinates:
N: 1009568.88"
E: 2803498.54"
EL: 819.37'

Ties:
1) North 4.15' to the South edge of asphalt of View High Drive
2) East 18.00' to West edge of asphalt field entrance
3) South 27.50' to west end of 18" cmp culvert for field entrance

CP #102 - 1/2" rebar with GBA cap along South side of East bound I-470, East of Bridge spanning View High Drive.
Coordinates:
N: 1009463.46"
E: 2803878.88"
EL: 829.94'

Ties:
1) ENE 38.90' to centerline of steel highway reflector post, 1st post E. of bridge
2) North 9.50' to South edge of asphalt shoulder of East bound I-470
3) WNW 53.65' to top SE corner of concrete guardrail for I-470 bridge spanning View High Drive

CP #104 - 1/2" rebar with GBA cap along South edge of off ramp from East bound I-470 to View High Drive.
Coordinates:
N: 1008447.60"
E: 2803180.41"
EL: 822.96'

Ties:
1) North 3.10' to South edge of asphalt of off ramp
2) WNW 3.00' to SE corner of concrete pad around state lighting control box
3) North 47.20' to SE corner of concrete pad around state lighting control box, North side of off ramp
4) East 530 1/2 to centerline of View High Drive

CP #105 - 1/2" rebar with GBA cap in grass between South edge of asphalt of East bound I-470 and the North edge of asphalt of East bound on ramp from View High Drive, at East end of grass area.
Coordinates:
N: 1008400.01"
E: 2804608.18"
EL: 833.34'

Ties:
1) SW 8.64' to centerline of reflector post, North side of on ramp
2) East 52.40' to centerline of reflector post, South side of I-470, East end of grass area

CP #106 - Set 1/2" rebar with GBA cap, West of View High Drive, South of entrance to substation at 10528 View High Drive
Coordinates:
N: 1006295.09"
E: 2803203.41"
EL: 944.66'

Ties:
1) NE 62.75' to front face of curb inlet

2) N 28 1/2 to center of gravel substation entrance
3) E 20 1/2 to West edge of sidewalk

CP #120 - 1/2" rebar with GBA cap at NW corner of View High Drive and access road "Future View High Drive Pkwy"
Coordinates:
N: 1009573.66"
E: 2803729.57"
EL: 811.46'

Ties:
1) NW 3.60' to East edge of asphalt
2) West 51.44' to back of curb at nose of island
3) NE 56.30' to center of MH lid

CP #121 - 1/2" rebar with GBA cap approximately 1430± ENE of access road "Future View High Drive Pkwy" from View High Drive, near MH #1055
Coordinates:
N: 1009788.28"
E: 2805047.90"
EL: 806.65'

Ties:
1) SW 3.65' to center of MH lid
2) WNW 14± to power pole
3) NW 35.65' to NE corner of chain link fence area

CP #122 - 1/2" rebar with GBA cap approximately 1380± NE of access road "Future View High Drive Pkwy" from View High Drive
Coordinates:
N: 1010126.48"
E: 2804864.88"
EL: 813.20'

Ties:
1) West 298± to center of MH lid
2) South 199± to center of MH lid

CP #302 - 5/8" rebar on North end of gravel construction parking area, at NE quadrant of intersection of Interstate 470 and View High Drive
Coordinates:
N: 1009855.67"
E: 2804291.58"
EL: 813.83'

Ties:
1) SE 156± to high voltage power pole

CP #303 - 1/2" rebar at E. end of gravel construction parking area
Coordinates:
N: 1009733.32"
E: 2804645.61"
EL: 811.78'

Ties:
1) South 5.00' to North edge of high voltage OHP
2) West 34.00' to East edge of gravel parking lot
3) SW 57.85' to steel R/W post at fence line

CP #304 - 1/2" rebar West of future View High Pkwy at top of hill near tree line, approximately 732± North of access road "Future View High Drive Pkwy" from View High Drive
Coordinates:
N: 1010251.92"
E: 2803699.53"
EL: 839.39'

Ties:
1) NNE 23.10' to South face of twin 10" oak tree
2) SW 5.30' to East face of 10" oak tree
3) NW 14.60' to East face of 9" oak tree

CP #305 - 1/2" rebar South of dead end of

gravel driveway, which connects to Easterly end of E. 97th Street, on top of hill.
Coordinates:
N: 1010784.43"
E: 2804698.47"
EL: 888.55'

Ties:
1) SE 4.00' to great break at ridge line

CP #306 - 1/2" rebar on South side of gravel drive leading to lift station, near bend in road.
Coordinates:
N: 1009431.99"
E: 2806165.47"
EL: 810.46'

Ties:
1) North 4.00' to South edge of gravel drive
2) SE 18.80' to North face of power pole

BM #10 - Chiseled "L" on top SW corner of concrete curb inlet at NE Quadrant of intersection of View High Drive and Chipman Road, 1st inlet East of View High Drive.
Coordinates:
N: 1005584.32"
E: 2803334.61"
EL: 951.45'

BM #11 - Chiseled "L" cut on NE corner of concrete guard rail at NE corner of Interstate 470 and View High Drive
Coordinates:
N: 1008590.33"
E: 2803864.07"
EL: 833.80'

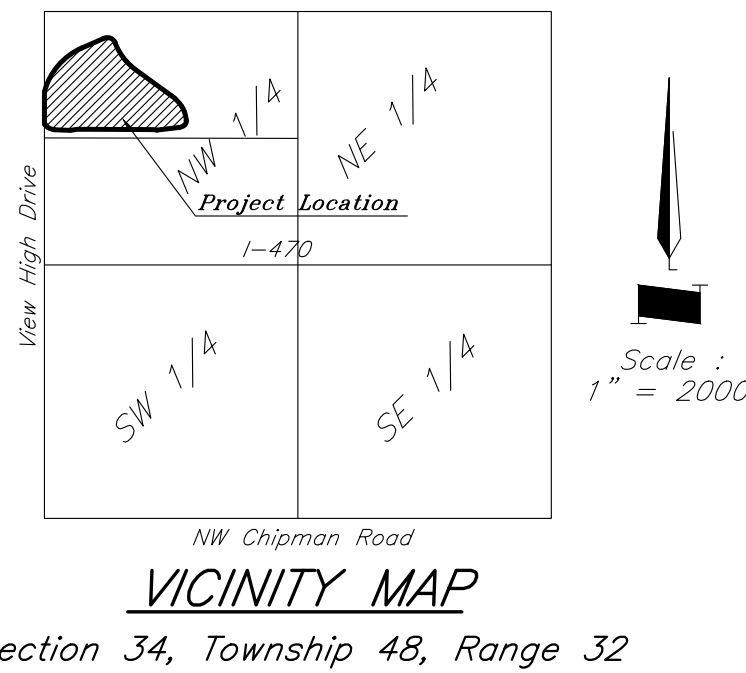
BM #13 - Chiseled "L" on NE corner of Interstate 470 and Cedar Creek Bridge
Coordinates:
N: 1008542.79"
E: 2806758.22"
EL: 852.04'

BM #16 - Chiseled "U" on top centerline of West side of curb inlet, at North end of island for View High Drive, 1st inlet South of Meers Road.
Coordinates:
N: 1007918.62"
E: 2803553.77"
EL: 830.12'

AREA TABLE

| ADDRESS | LOT | AREA | BUILDING SETBACK TO PERIMETER PROPERTY | PARKING SETBACK | FLOOR-AREA RATIO |
|----------------------|--------|--------------------------------|--|-----------------|------------------|
| 3290 NW Paragon Pkwy | LOT 5 | 618,315.40 sqft or 14.20 acres | N/A | N/A | N/A |
| 3280 NW Paragon Pkwy | LOT 6 | 31,334.95 sqft or 0.72 acres | 0 FT | 0 FT | N/A |
| 3200 NW Paragon Pkwy | LOT 7A | 48,455.77 sqft or 1.11 acres | 0 FT | 0 FT | 0.86 |
| 3260 NW Paragon Pkwy | LOT 7B | 30,055.22 sqft or 0.69 acres | 0 FT | 0 FT | 1.00 |
| 3240 NW Paragon Pkwy | LOT 7C | 77,652.57 sqft or 1.78 acres | 0 FT | 0 FT | 0.54 |
| 3220 NW Paragon Pkwy | LOT 8 | 49,056.06 sqft or 1.13 acres | 0 FT | 0 FT | N/A |
| Total | | 854,869.97 sqft or 19.63 acres | | | |

| COORDINATE TABLE | | | | | |
|------------------|------------|------------|-------|------------|------------|
| Point | Northing | Easting | Point | Northing | Easting |
| 1A-96 | 1000821.54 | 2794091.51 | 12 | 1009512.58 | 2804874.77 |
| 1 | 1009849.40 | 2803493.77 | 13 | 1009471.07 | 2804853.64 |
| 2 | 1010288.56 | 2803895.54 | 14 | 1009451.41 | 2804796.48 |
| 3 | 1010369.72 | 2804116.09 | 15 | 1009439.03 | 2804582.75 |
| 4 | 1010318.29 | 2804224.49 | 16 | 1009447.26 | 2804541.89 |
| 5 | 1010305.83 | 2804228.80 | 17 | 1009494.69 | 2803800.06 |
| 6 | 1010132.73 | 2804321.64 | 18 | 1009487.14 | 2803736.05 |
| 7 | 1010042.66 | 2804408.77 | 19 | 1009502.76 | 2803576.88 |
| 8 | 1009764.89 | 2804748.29 | 20 | 1009526.89 | 2803517.83 |
| 9 | 1009657.27 | 2804837.95 | 21 | 1009543.96 | 2803501.83 |
| 10 | 1009604.17 | 2804860.09 | 22 | 1009555.40 | 2803492.53 |
| 11 | 1009515.74 | 2804874.69 | 23 | 1009569.47 | 2803481.89 |



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

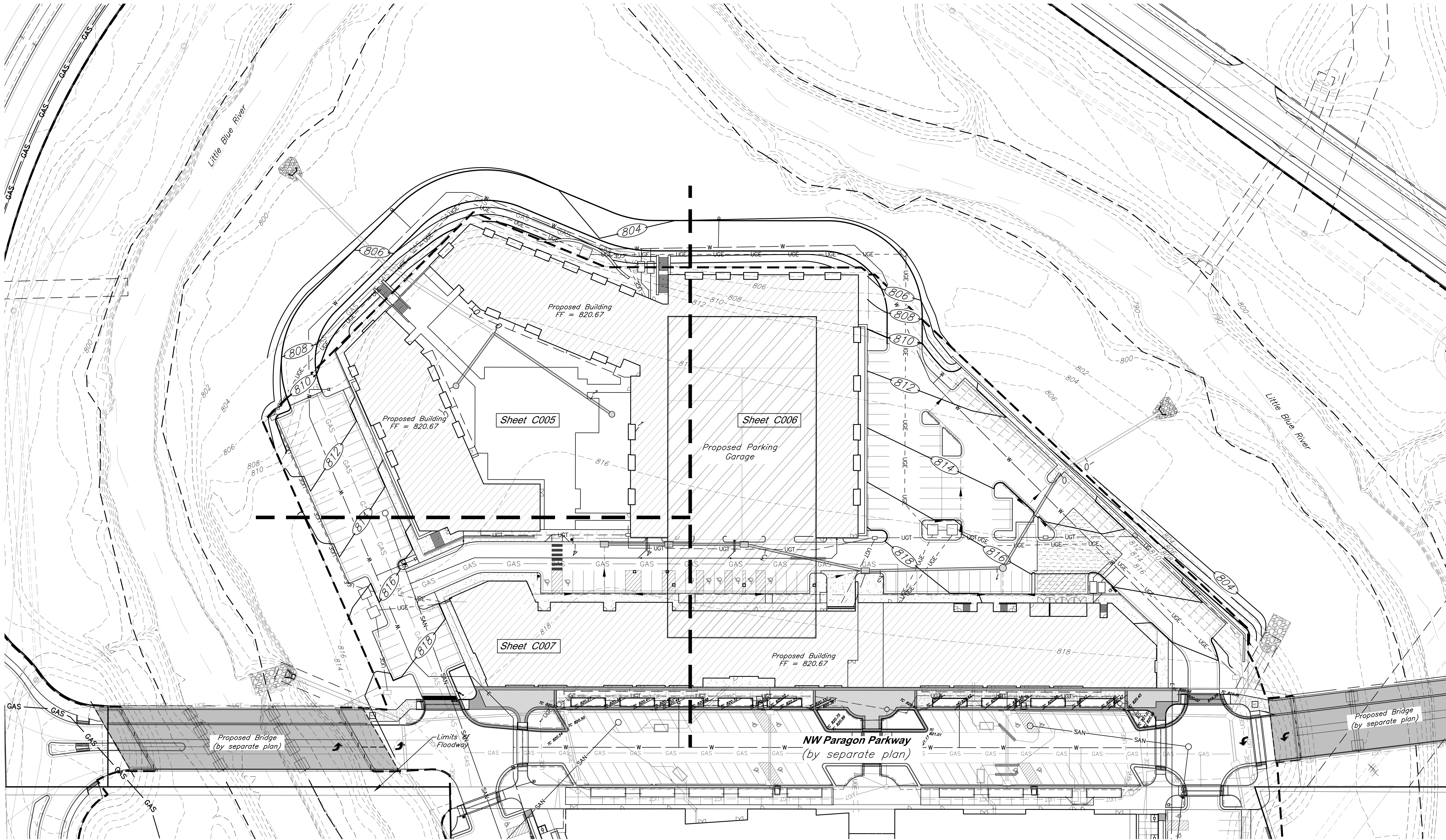
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JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

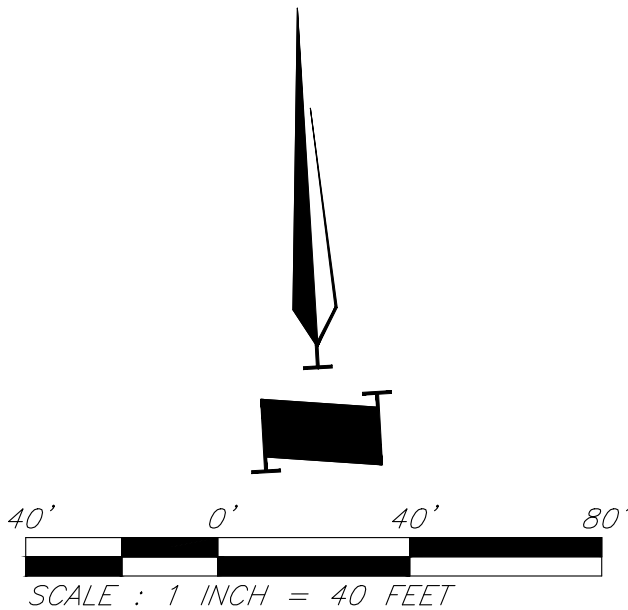
C003

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CAUTION!
Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | Existing Contour | | Existing Flood Zone AE |
| | Proposed Contour | | Existing Flood Zone X |
| | Proposed Top of Curb | | Stream Corridor |
| | Proposed Spot Grade | | Proposed Floodplain |
| | Drainage Flow Arrow | | Proposed Floodway |



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PROJECT:

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Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

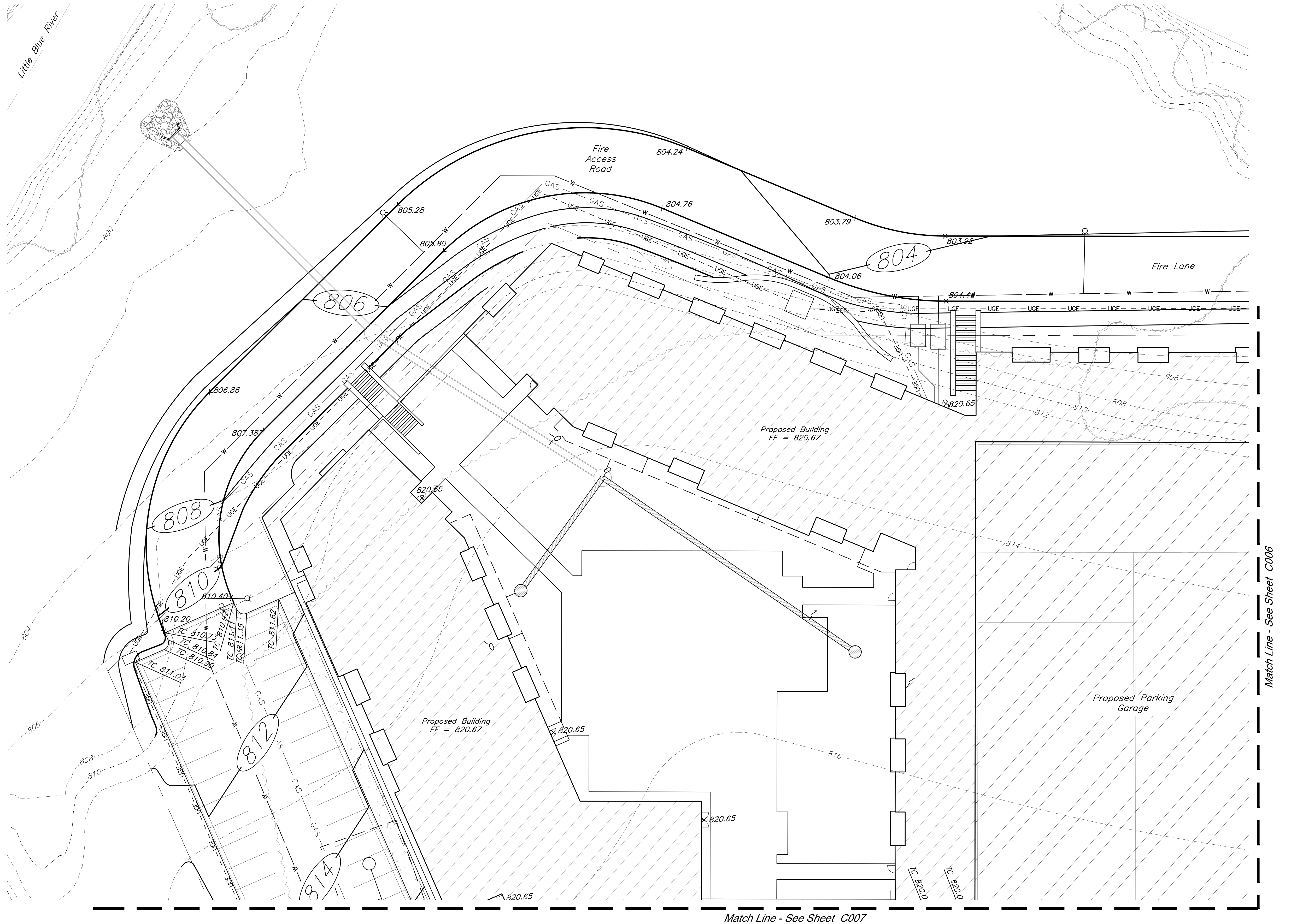
Overall Grading
Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

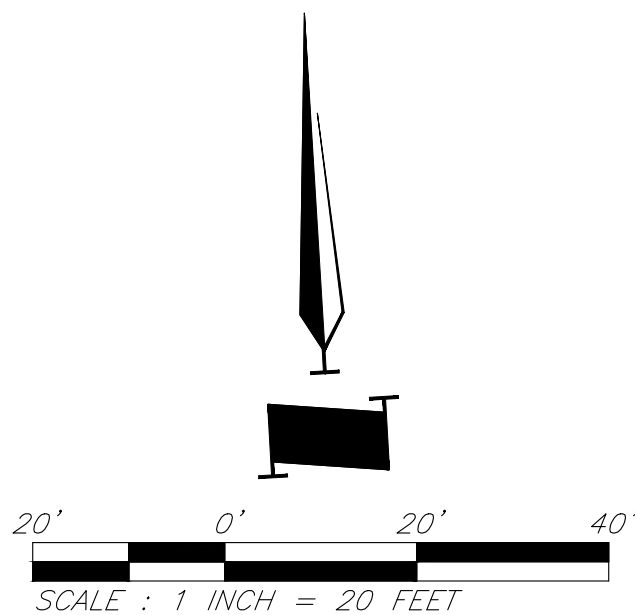
C004

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CAUTION!
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utilities prior to commencing
construction.

- LEGEND**
- | | | | |
|-----------|----------------------|-----|------------------------|
| ---XXX--- | Existing Contour | --- | Existing Flood Zone AE |
| ---XXX--- | Proposed Contour | --- | Existing Flood Zone X |
| TC XXX.XX | Proposed Top of Curb | --- | Stream Corridor |
| XXX.XX | Proposed Spot Grade | --- | Proposed Floodplain |
| ➔ | Drainage Flow Arrow | --- | Proposed Floodway |



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

Grading Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

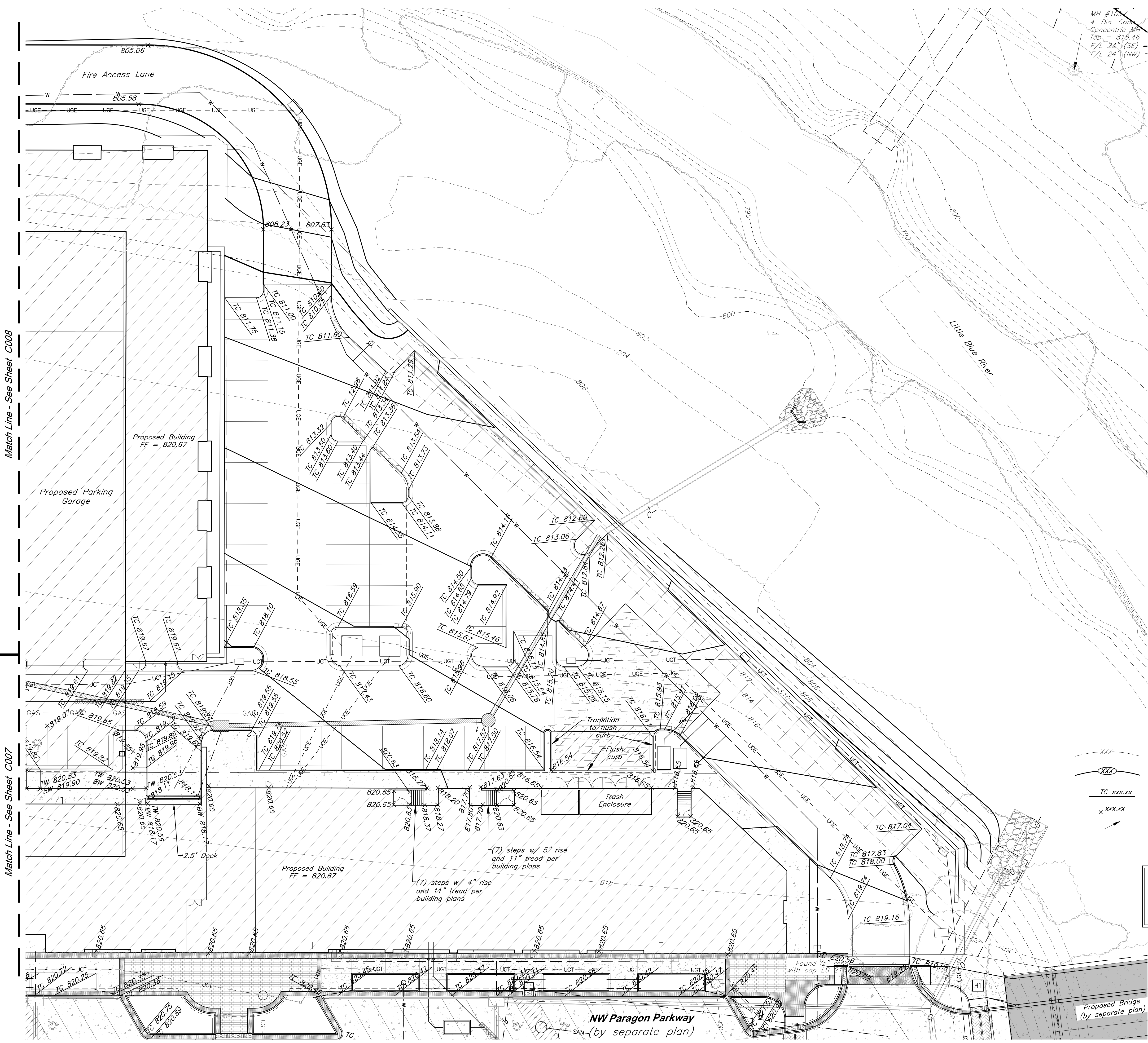
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Match Line - See Sheet C008

Match Line - See Sheet C007



LEGEND

| | | | |
|--|----------------------|--|------------------------|
| | Existing Contour | | Existing Flood Zone AE |
| | Proposed Contour | | Existing Flood Zone X |
| | Proposed Top of Curb | | Stream Corridor |
| | Proposed Spot Grade | | Proposed Floodplain |
| | Drainage Flow Arrow | | Proposed Floodway |

CAUTION!

Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

20' 0' 20' 40'
SCALE : 1 INCH = 20 FEET

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

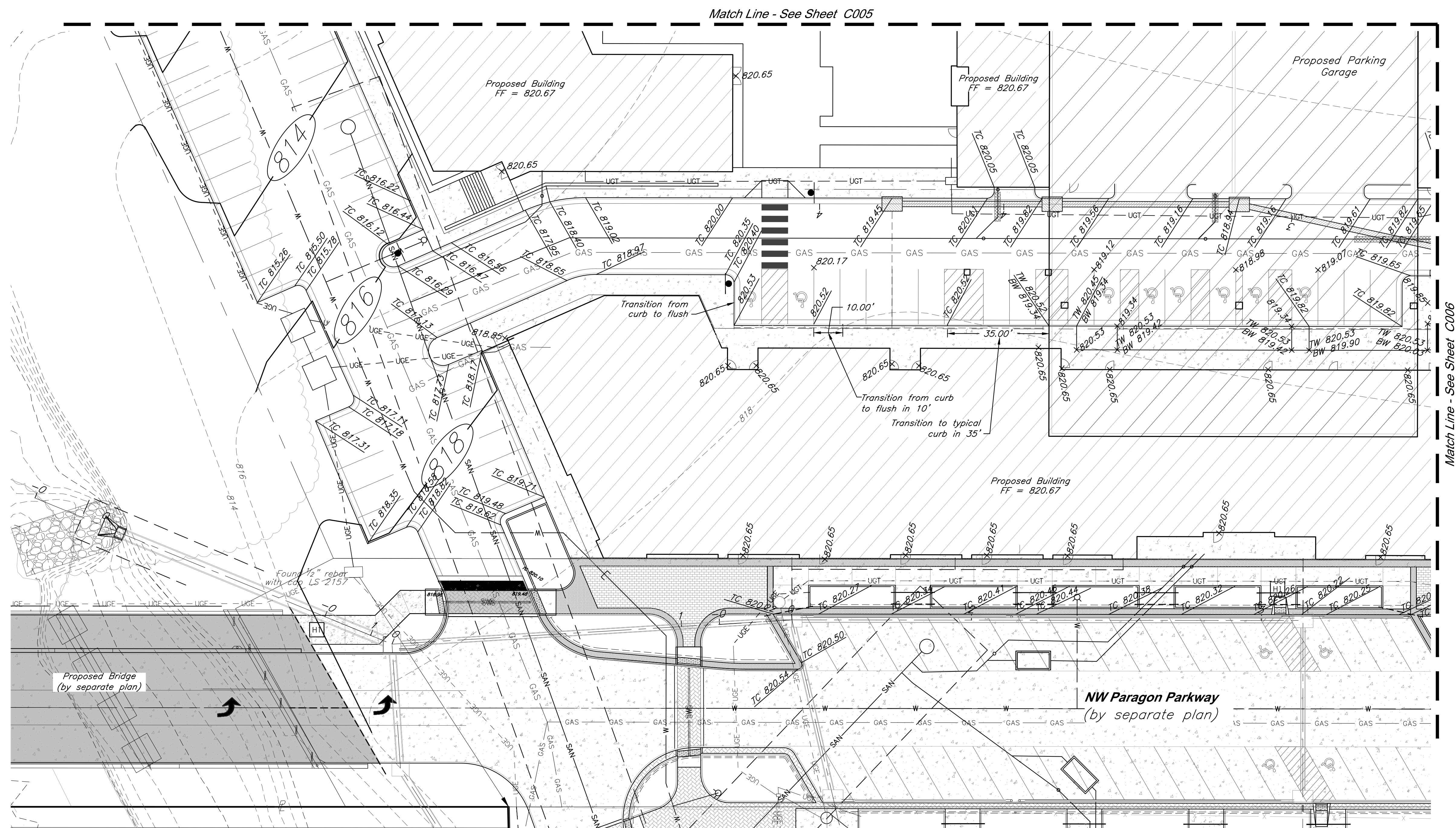
DRAWING TITLE:

Grading Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH











SHEET NO:

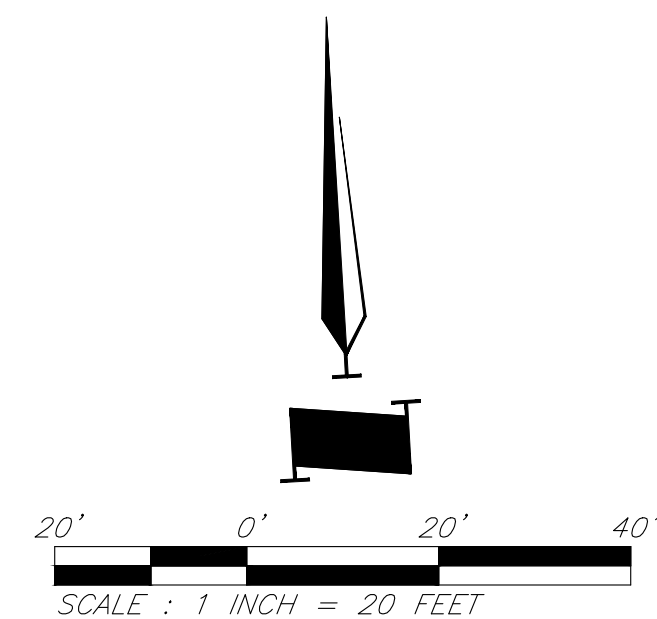
C006



CAUTION!
Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

LEGEND

| | | | |
|---|----------------------|---|------------------------|
|  | Existing Contour |  | Existing Flood Zone AE |
|  | Proposed Contour |  | Existing Flood Zone X |
|  | Proposed Top of Curb |  | Stream Corridor |
|  | Proposed Spot Grade |  | Proposed Floodplain |
|  | Drainage Flow Arrow |  | Proposed Floodway |



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PROJECT:

Paragon Star North Village

3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

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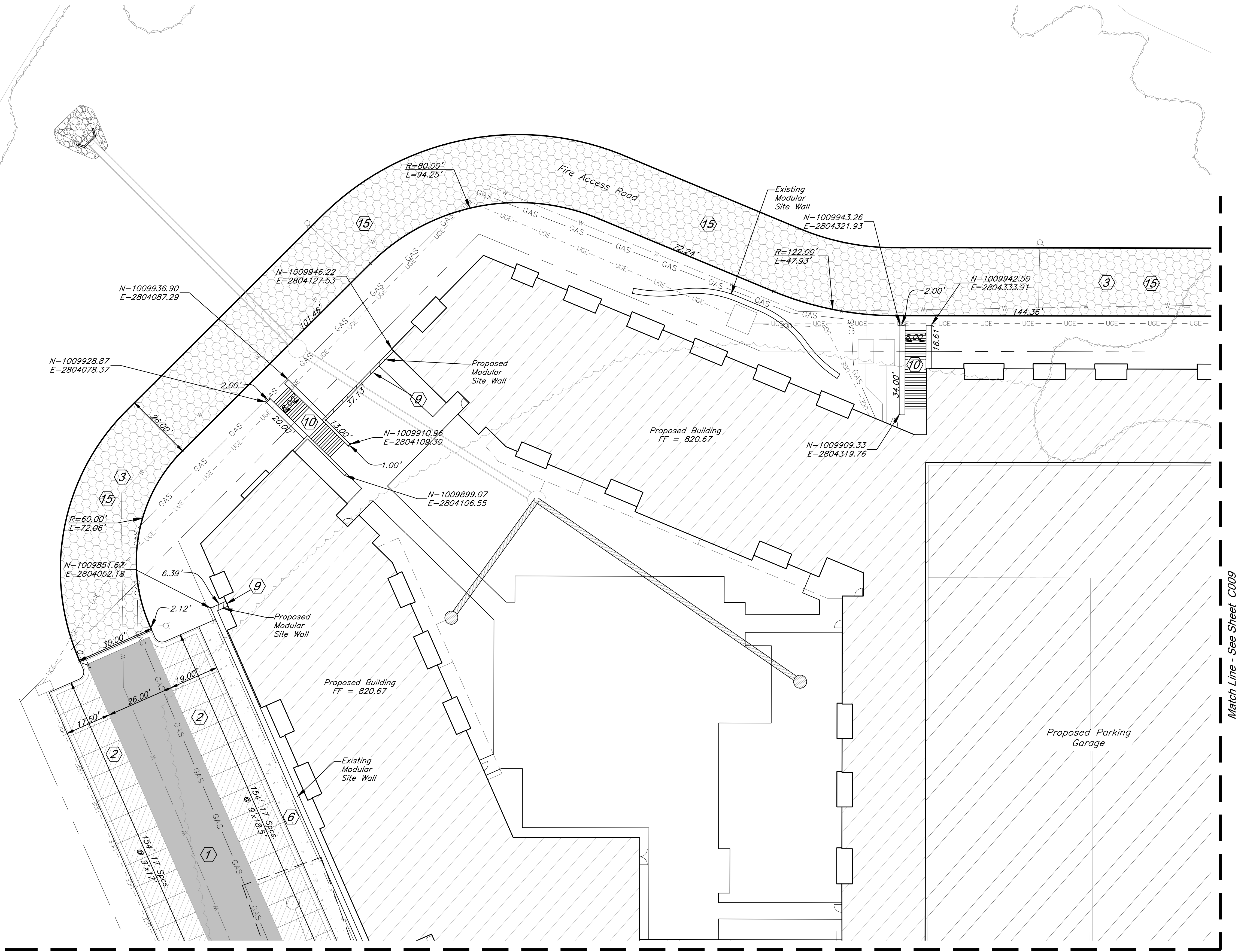
JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C007

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Little Blue River



CONSTRUCTION NOTES:

- 1 Proposed HD Asphalt Pavement
- 2 Proposed LD Asphalt Pavement
- 3 Proposed Fire Access Road
- 4 Type CG-1 Curb & Gutter
- 6 Construct Concrete Sidewalk
- 9 Construct Modular Site Walls per Architectural and Structural Plans
- 10 Construct Stairs per Architectural and Structural Plans
- 15 Construct Grass Paver Driveable Grass by Soil Retention See Construction Details

DIMENSION NOTES:

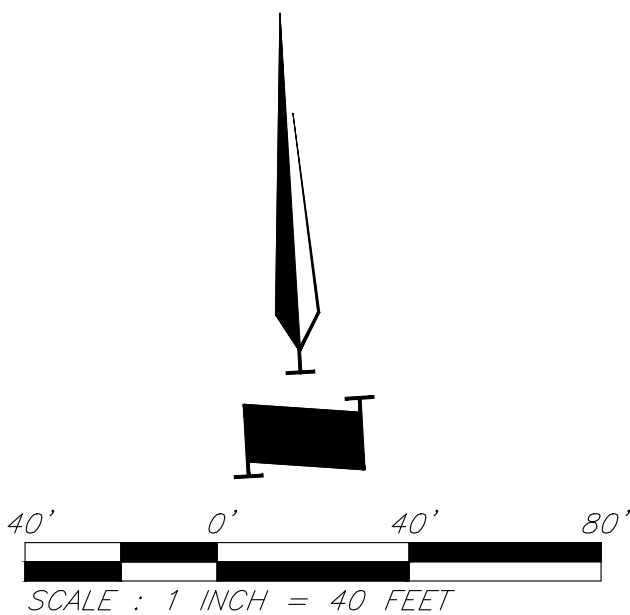
- All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
- Unless otherwise specified, all dimensions are to the back of curb and dimension ties to property line are measured at right angles to property lines.
- See Sheets C017-C018 for construction details.

CAUTION!

Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

LEGEND

- Proposed HD Asphalt Surface
- Proposed LD Asphalt Surface
- Type CG-1 "Dry Curb"
- Proposed Modular Site Wall
- Proposed Concrete Walk
- Proposed Water Line
- Proposed Storm Sewer
- Existing Sanitary Sewer
- Crosswalk Sign / Stop Sign (Typ)
- Proposed Grass Paver



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

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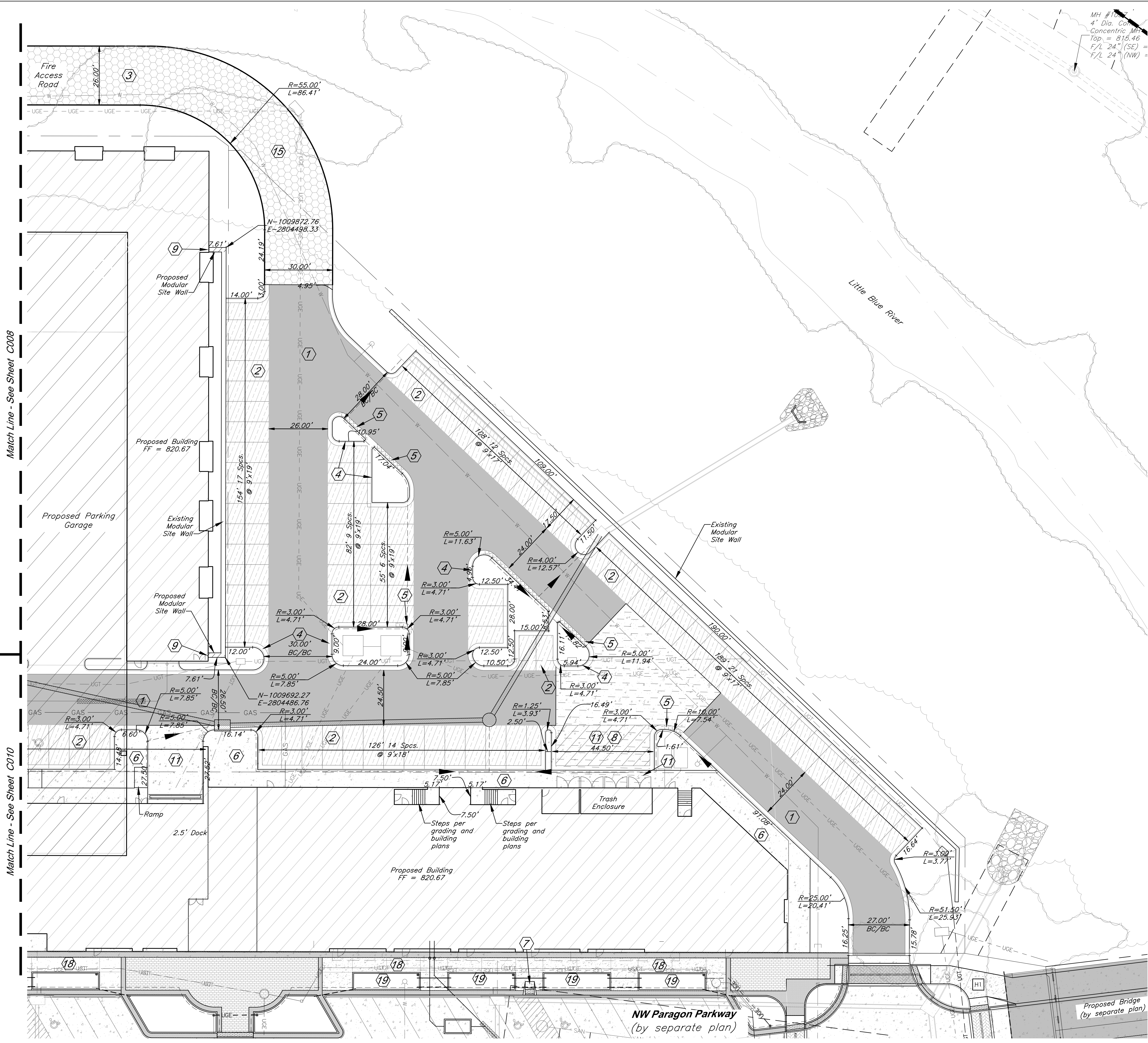
Dimension Plan

JOB NO: 1249 SCALE:
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SHEET NO:

C008

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construction.

CONSTRUCTION NOTES:

- 1 Proposed HD Asphalt Pavement
- 2 Proposed LD Asphalt Pavement
- 3 Proposed Fire Access Road
- 4 Type CG-1 Curb & Gutter
- 5 Type CG-1 "Dry" Curb & Gutter
- 6 Construct Concrete Sidewalk
- 7 Construct ADA Ramp
- 8 No Parking Pavement Striping for Trash Enclosure
- 9 Construct Modular Site Walls per Architectural and Structural Plans
- 11 Proposed HD Concrete Pavement
- 15 Construct Grass Paver Driveable Grass by Soil Retention See Construction Details
- 18 Construct typical sidewalk per streetscape details
- 19 Construct raised planter per streetscape details

DIMENSION NOTES:

1. All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
2. Unless otherwise specified, all dimensions are to the back of curb and dimension ties to property line are measured at right angles to property lines.
3. See Sheet C017-C018 for construction details.

LEGEND

- Proposed HD Asphalt Surface
- Proposed LD Asphalt Surface
- Proposed Concrete Pavement
- Proposed HD Concrete Pavement (Trash Enclosure)
- Proposed Grass Paver
- Type CG-1 "Dry Curb"
- Proposed Water Line
- Proposed Storm Sewer
- Existing Sanitary Sewer

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

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DRAWING TITLE:

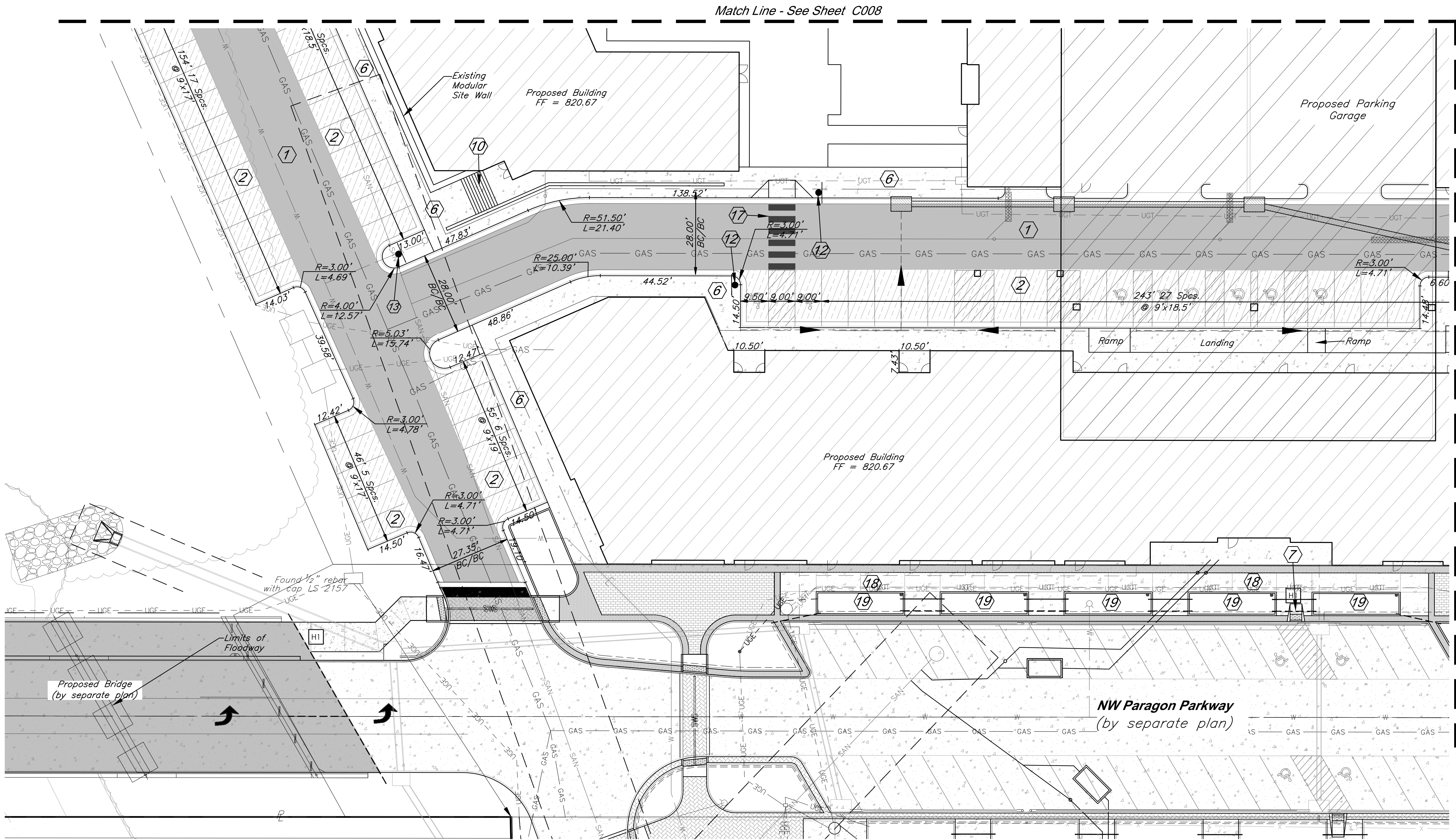
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JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

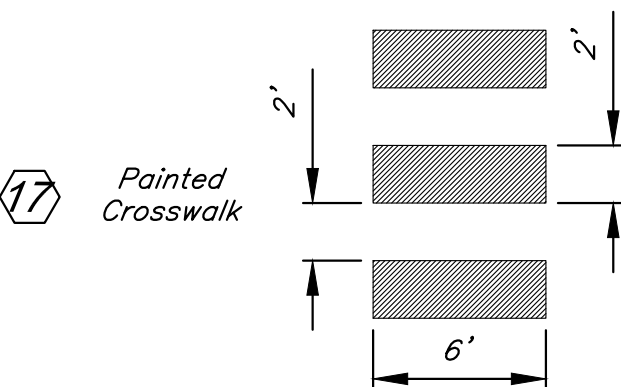
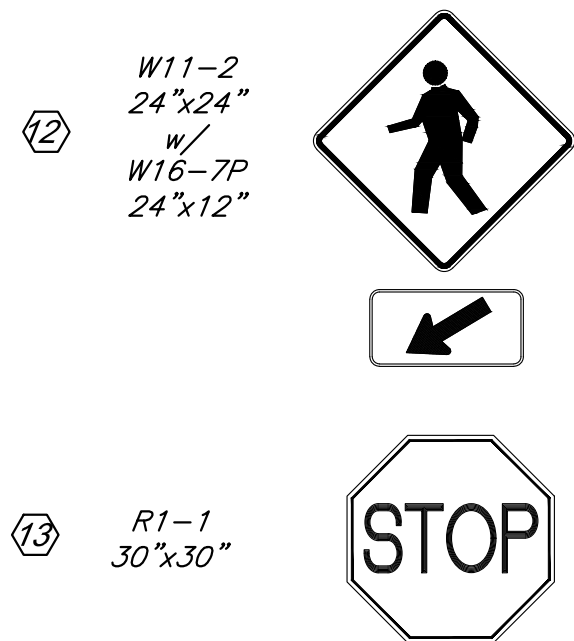
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Notes:

1. All signs shall be placed 2' behind back of curb unless otherwise noted.
2. All ADA accessible parking stalls to be painted in accordance with U.S. Dept. of Justice specifications.
3. All pavement markings on private property shall be waterborne paint.
4. All pavement markings in public Right of Way shall be preformed Thermoplastic conforming to AASHTO M249-79.



CONSTRUCTION NOTES:

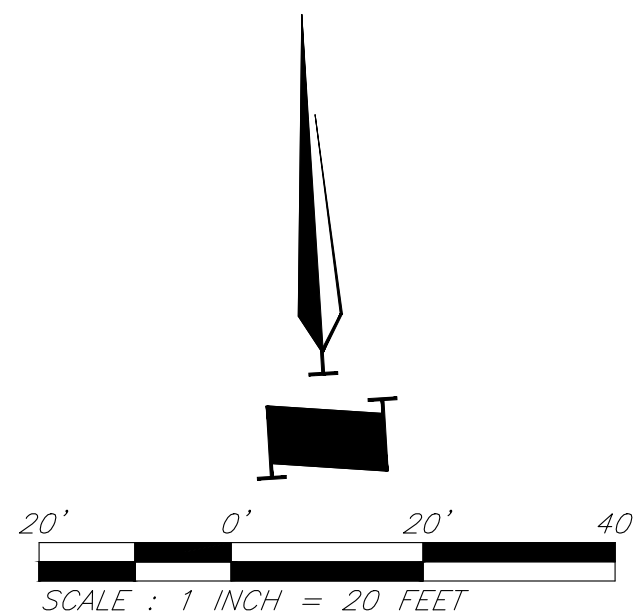
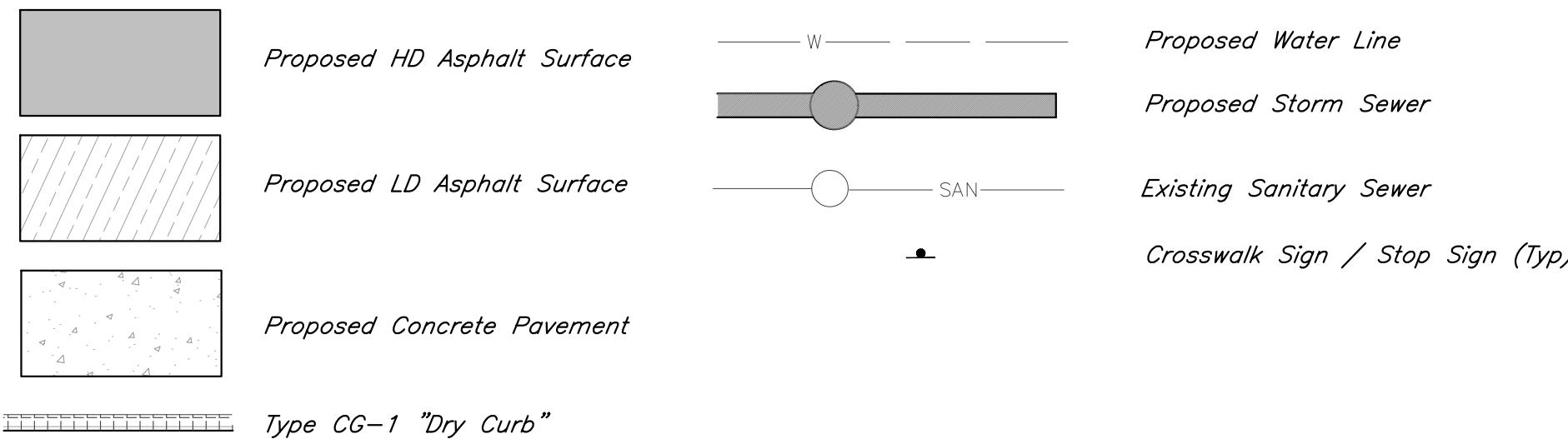
- 1 Proposed HD Asphalt Pavement
- 2 Proposed LD Asphalt Pavement
- 4 Type CG-1 Curb & Gutter
- 5 Type CG-1 "Dry" Curb & Gutter
- 6 Construct Concrete Sidewalk
- 7 Construct ADA Ramp
- 10 Construct Stairs per Architectural and Structural Plans
- 12 Crosswalk Signage (See Detail this Sheet)
- 13 Stop Sign Signage (See Detail this Sheet)
- 17 White Traffic Paint Crosswalk
- 18 Construct typical sidewalk per streetscape details
- 19 Construct raised planter per streetscape details

DIMENSION NOTES:

1. All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
2. Unless otherwise specified, all dimensions are to the back of curb and dimension ties to property line are measured at right angles to property lines.
3. See Sheet C017 - C018 for construction details.

CAUTION!
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LEGEND



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PROJECT:

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Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

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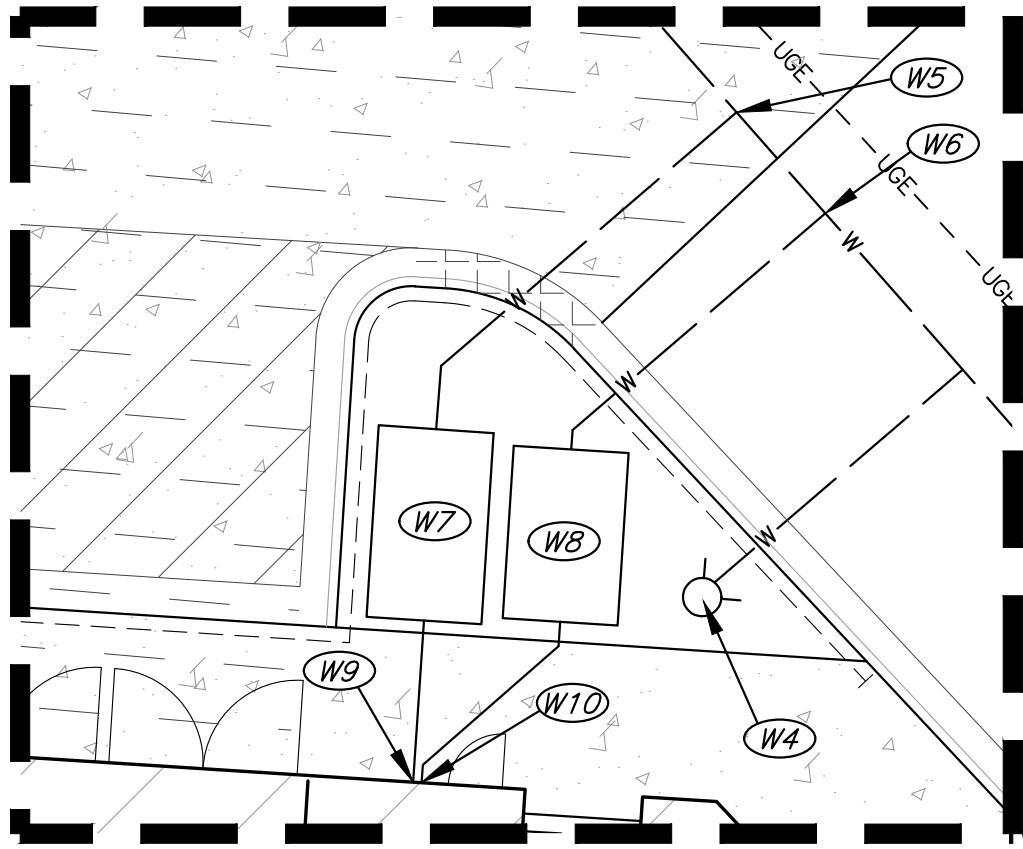
Dimension Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

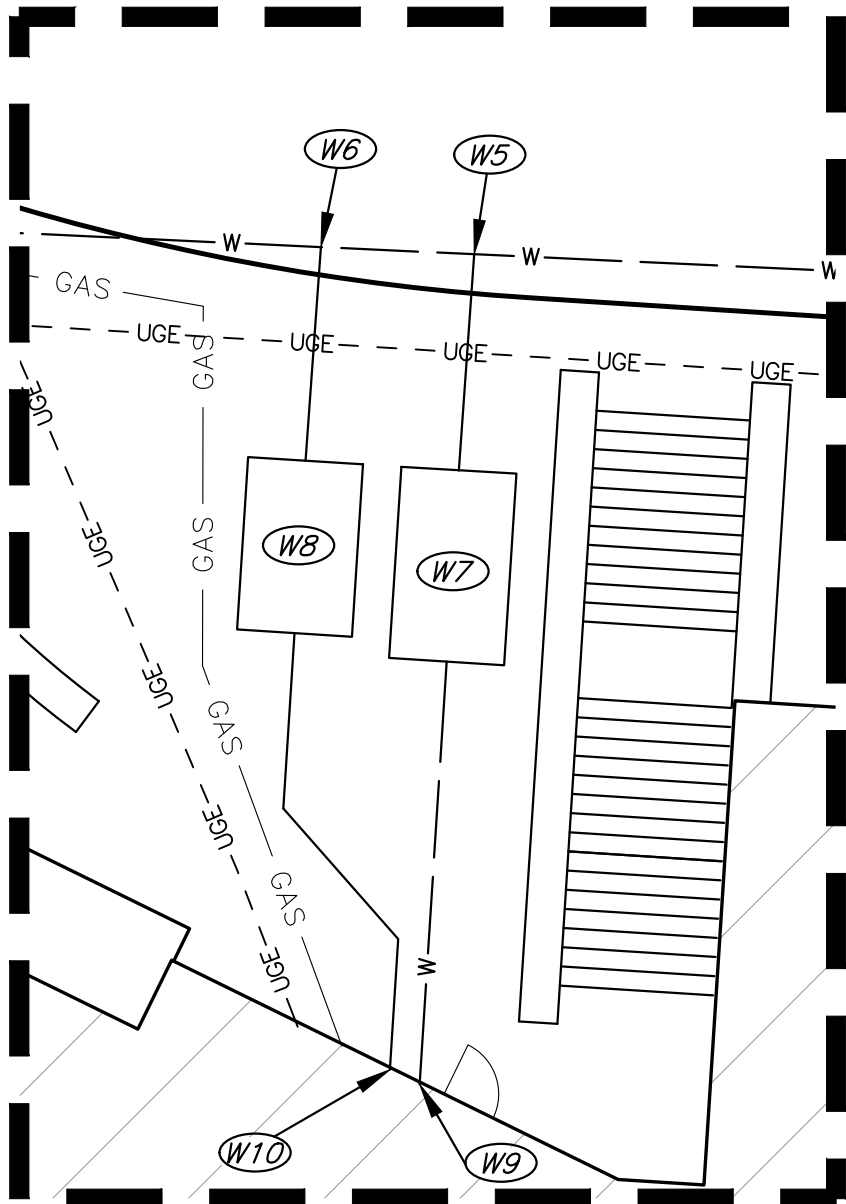
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C010

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Enlargement #1
1"=10'



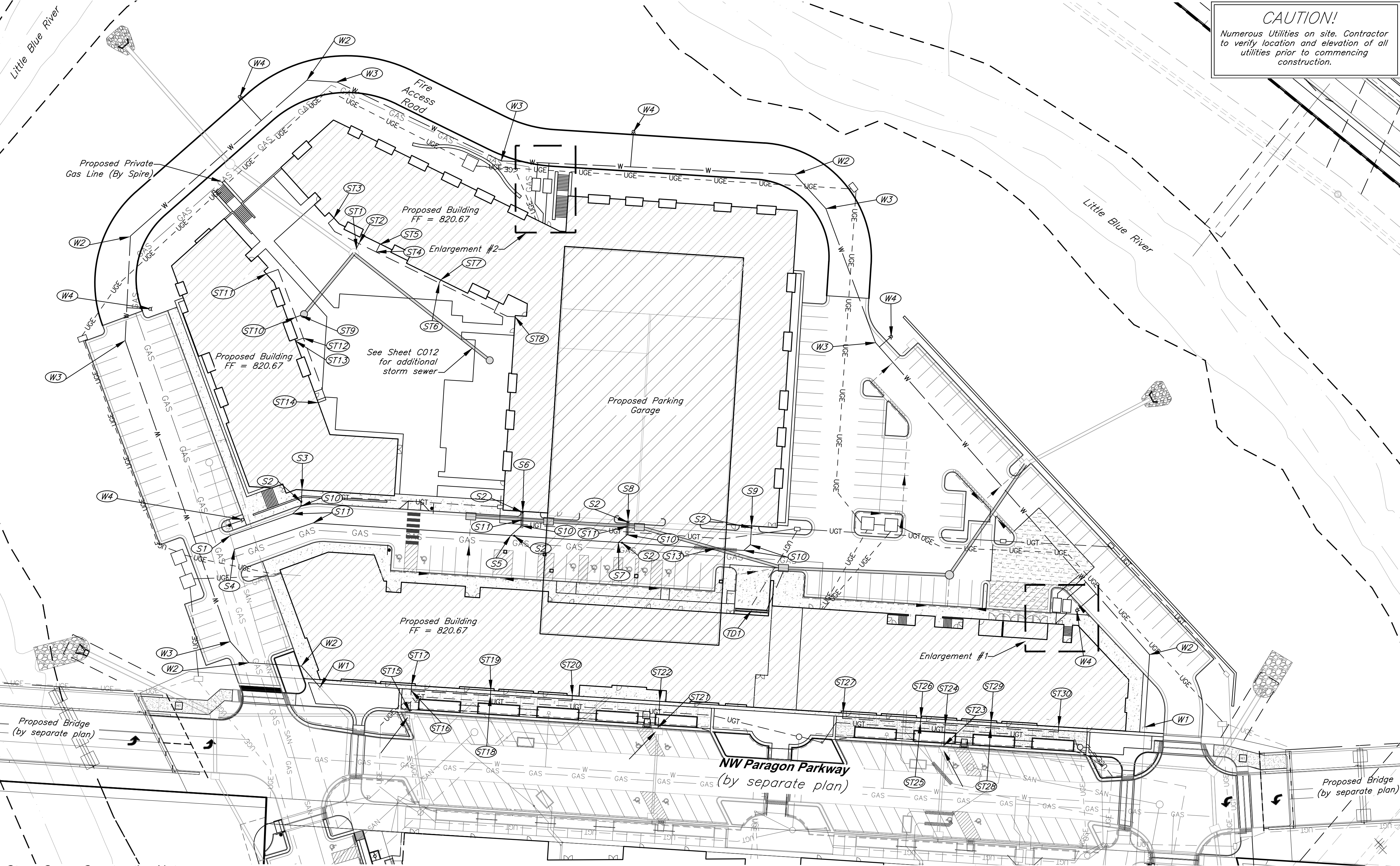
Enlargement #2
1"=10'

Water Line Construction Notes

- W1 Connect to 12" water main. Install 8" Dia. Class 305 C900 PVC.
- W2 Install 45° Bend with Thrust Block
- W3 Install 22.5° Bend with Thrust Block
- W4 Install Fire Hydrant Assembly
- W5 Connect to water main via 8"x8"x8" tee w/ thrust block.
- W6 Connect to water main via 8"x6"x8" tee w/ thrust block.
- W7 Install Double Check Detector Assembly in Concrete Vault.
- W8 Install 6" Water Meter in Concrete Vault.
- W9 8" Fire Protection Line Building Connection. See MEP Plan for Continuation.
- W10 6" Domestic Water Line Building Connection. See MEP Plan for Continuation.

Sanitary Sewer Construction Notes

- S1 Connect 6" Service Line to Sanitary Sewer Line A with cut-in tee, Sta=14+18.41, ℓ =809.26. ℓ @ End of Tee=809.93. Install 67 LF 6" Dia. SDR26 PVC Pipe @ 1% to S3.
- S2 Install Cleanout
- S3 Connect to 6" building stub, ℓ =810.60. See MEP plan for continuation.
- S4 Connect 6" Service Line to Sanitary Sewer Line A with cut-in tee, Sta=14+8.20, ℓ =809.17. ℓ @ End of Tee=809.84. Install 200 LF 6" Dia. SDR26 PVC Pipe @ 1% to S5.
- S5 Install wye connection, ℓ =811.84. Install 21 LF 6" Dia. SDR26 PVC Pipe @ 1% to S6. Install 77 LF 6" Dia. SDR26 PVC Pipe @ 1% to S7.
- S6 Connect to 6" building stub, ℓ =812.05. See MEP plan for continuation.
- S7 Install wye connection, ℓ =812.61. Install 19 LF 6" Dia. SDR26 PVC Pipe @ 1% to S8. Install 109 LF 6" Dia. SDR26 PVC Pipe @ 1% to S9.
- S8 Connect to 6" building stub, ℓ =812.80. See MEP plan for continuation.
- S9 Connect to 6" building stub, ℓ =813.70. See MEP plan for continuation.
- S10 45° Bend
- S11 22.5° Bend
- S12 Sanitary line crosses under storm sewer. Construct 10 LF Reinforced Concrete Encasement, centered on crossing.
- S13 Sanitary line crosses under storm sewer. Construct 30 LF Reinforced Concrete Encasement, centered on crossing.



Storm Sewer Construction Notes

- ST1 Connect roof drain line to Structure 5002, ℓ =813.00. Install 6 LF 10" Dia. SDR 26 PVC @ 2% to ST2.
- ST2 Install tee connection, ℓ =813.12. Install 32 LF 10" Dia. SDR26 PVC @ 2% to ST3. Install 14 LF 10" Dia. SDR26 PVC @ 2% to ST4.
- ST3 Connect to building stub, ℓ =813.76. See MEP Plan for continuation.
- ST4 Install tee connection, ℓ =813.40. Install 6.5 LF 10" Dia. SDR26 PVC @ 2% to ST5. Install 50 LF 10" Dia. SDR26 PVC @ 2% to ST6.
- ST5 Connect to building stub, ℓ =813.53. See MEP Plan for continuation.
- ST6 Install tee connection, ℓ =814.40. Install 2.5 LF 10" Dia. SDR26 PVC @ 2% to ST7. Install 59 LF 10" Dia. SDR26 PVC @ 2% to ST6.
- ST7 Connect to building stub, ℓ =814.45. See MEP Plan for continuation.
- ST8 Connect to building stub, ℓ =815.58. See MEP Plan for continuation.
- ST9 Connect roof drain line to Structure 5901, ℓ =813.00. Install 4 LF 12" Dia. SDR 26 PVC @ 2% to ST10.
- ST10 Install tee connection, ℓ =813.08. Install 45 LF 12" Dia. SDR26 PVC @ 2% to ST11. Install 16 LF 12" Dia. SDR26 PVC @ 2% to ST12.
- ST11 Connect to building stub, ℓ =813.98. See MEP Plan for continuation.
- ST12 Install tee connection, ℓ =813.40. Install 6 LF 12" Dia. SDR26 PVC @ 2% to ST13. Install 52.5 LF 12" Dia. SDR26 PVC @ 2% to ST14.
- ST13 Connect to building stub, ℓ =813.52. See MEP Plan for continuation.
- ST14 Connect to building stub, ℓ =814.45. See MEP Plan for continuation.

- ST15 Connect roof drain line to Structure 4301, ℓ =813.71. Install 18 LF 8" Dia. SDR 26 PVC @ 2% to ST16.
- ST16 Install tee connection, ℓ =814.07. Install 4 LF 8" Dia. SDR26 PVC @ 2% to ST17. Install 57 LF 8" Dia. SDR26 PVC @ 2% to ST18.
- ST17 Connect to building stub, ℓ =814.15. See MEP Plan for continuation.
- ST18 Install tee connection, ℓ =815.21. Install 4 LF 8" Dia. SDR26 PVC @ 2% to ST19. Install 62 LF 8" Dia. SDR26 PVC @ 2% to ST20.
- ST19 Connect to building stub, ℓ =815.29. See MEP Plan for continuation.
- ST20 Connect to building stub, ℓ =816.45. See MEP Plan for continuation.
- ST21 Connect roof drain line to Structure 4302, ℓ =815.53. Install 22 LF 8" Dia. SDR 26 PVC @ 2% to ST22.
- ST22 Connect to building stub, ℓ =815.97. See MEP Plan for continuation.
- ST23 Connect roof drain line to Structure 5401, ℓ =815.03. Install 18 LF 8" Dia. SDR 26 PVC @ 2% to ST24.
- ST24 Install tee connection, ℓ =815.39. Install 18 LF 8" Dia. SDR26 PVC @ 2% to ST25. Install 33 LF 8" Dia. SDR26 PVC @ 2% to ST28.
- ST25 Install tee connection, ℓ =815.75. Install 4 LF 8" Dia. SDR26 PVC @ 2% to ST26. Install 60 LF 8" Dia. SDR26 PVC @ 2% to ST27.
- ST26 Connect to building stub, ℓ =815.83. See MEP Plan for continuation.
- ST27 Connect to building stub, ℓ =816.95. See MEP Plan for continuation.
- ST28 Install tee connection, ℓ =816.05. Install 4 LF 6" Dia. SDR26 PVC @ 2% to ST29. Install 52 LF 8" Dia. SDR26 PVC @ 2% to ST30.
- ST29 Connect to building stub, ℓ =816.13. See MEP Plan for continuation.
- ST30 Connect to building stub, ℓ =817.09. See MEP Plan for continuation.

General Utility Notes

- See Sheet C017 for Construction Details.
- Contractor to deflect conduits as necessary to avoid conflicts with other utilities.
- Contractor shall coordinate with the Surveyor to leave trenches open for collecting survey data for record drawings.
- Water line minimum burial depth shall be 42 inches.

Notes:

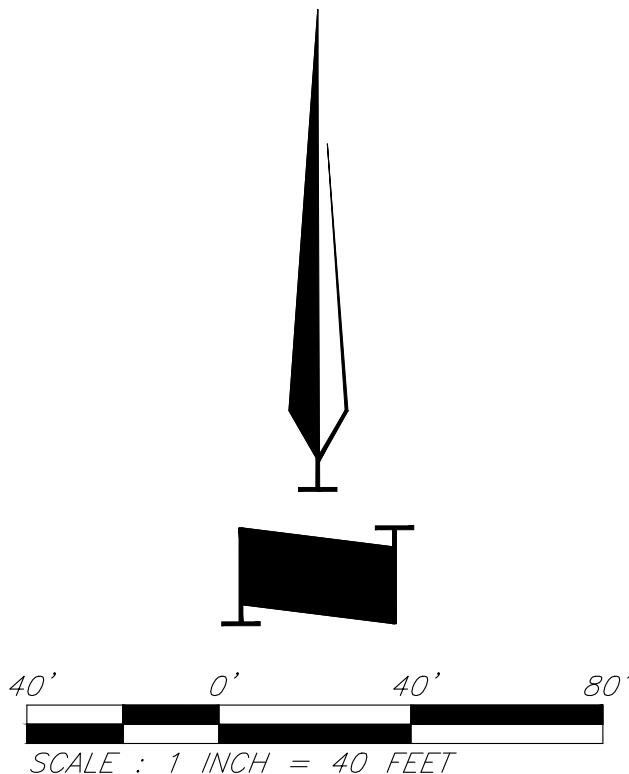
- Pipe length called out is from center of structure to center of structure. Payment for pipe length is from inside face to inside face of structure.
- Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.
- Taps on all in grade inlets shall maintain street slope, low point inlets to be set level.
- Fire department connection locations are preliminary and subject to change upon final design. IFC distance requirements for FDCs shall be met with final design.

Trench Drain Construction Notes

- TD1 Install 22.5 LF 10" Trench Drain per Sheet C016. Install 30 LF 6" PVC Pipe @ 2% to Storm Structure 5702, ℓ =815.90.

CAUTION!
Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

- Legend**
- W Proposed Water Line
 - ST Proposed Storm Sewer
 - SAN Proposed Sanitary Sewer
 - GAS Proposed Gas Line
 - UGE Proposed Underground Electric
 - UGT Proposed Telecom



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

Utility Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C011

G:\127201 Civil 3D\Production Drawings\LS Multifamily FDP\1272000000.dwg Layout: C012 Utility Plan -- Friday, January 28, 2022, 10:30am -- Copyright 2022, George Butler Associates, Inc. THE PROFESSIONAL WHOSE SEAL SIGNATURE AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PERSUANT TO SECTION 327.411, RSMo) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INTENDING TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

Electrical Service Construction Notes

- E1 Install 9'x9' Building Transformer Pad per Every Standards
- E2 Install 200 Amp Sectionalizer Furnished by Every per Detail 760.1-3
- E3 Connect to existing 200 Amp Sectionalizer constructed per Paragon Parkway Plans
- E4 Install 64 LF 4" Dia. Sch. 40 PVC Conduit.
- E5 Install 65 LF (8) 3" Dia. Sch. 40 PVC Conduit to building electrical room. Continue per MEP Plans.
- E6 Install 9 LF 4" Dia. Sch. 40 PVC Conduit.
- E7 Install 84 LF (8) 3" Dia. Sch. 40 PVC Conduit to building electrical room. Continue per MEP Plans.
- E8 Install 168 LF 4" Dia. Sch. 40 PVC Conduit.
- E9 Install 356 LF 4" Dia. Sch. 40 PVC Conduit.
- E10 Install 62 LF (8) 3" Dia. Sch. 40 PVC Conduit to building electrical room. Continue per MEP Plans.
- E11 Install 266 LF 4" Dia. Sch. 40 PVC Conduit.
- E12 Install 242 LF 4" Dia. Sch. 40 PVC Conduit.
- E13 Install 8 LF 4" Dia. Sch. 40 PVC Conduit.
- E14 Install 92 LF 4" Dia. Sch. 40 PVC Conduit.
- E15 Install 72 LF 4" Dia. Sch. 40 PVC Conduit.
- E16 Install 287 LF 4" Dia. Sch. 40 PVC Conduit.
- E17 Connect to existing 4" Dia. PVC Conduit installed per the Multifamily Mass Grading Plans.
- E18 Connect to existing 3" Dia. PVC Conduit installed per the Multifamily Mass Grading Plans.

Amenity Zone Electrical Construction Notes

- AE1 Install 35 LF 1" HDPE Conduit from existing connection to Planter Box
- AE2 Install 39 LF 1" HDPE Conduit from existing connection to Planter Box

Telecom Construction Notes

- T1 Install Telecom Utility Pull Box.
- T2 Connect to existing Telecom Pull Box installed per Paragon Parkway Plans
- T3 Install 119 LF (3) 5" HDPE Conduit. Two conduits shall have (4) 2" fabric innerducts.
- T4 Install 108 LF (3) 5" HDPE Conduit. Two conduits shall have (4) 2" fabric innerducts.
- T5 Install 109 LF (3) 5" HDPE Conduit. Two conduits shall have (4) 2" fabric innerducts.
- T6 Install 62 LF (2) 5" HDPE Conduit to building electrical room. Two conduits shall have (4) 2" fabric innerducts.
- T7 Install 211 LF (3) 5" HDPE Conduit. Two conduits shall have (4) 2" fabric innerducts.
- T8 Install 7 LF 3(2) 5" HDPE Conduit to building electrical room. Two conduits shall have (4) 2" fabric innerducts.
- T9 Install 128 LF (2) 5" HDPE Conduit to building electrical room. Two conduits shall have (4) 2" fabric innerducts.

Amenity Zone Telecom Construction Notes

- AT1 Install Digital Display with Power/Data Connections, Unswitched Hot Power
- AT2 Install Telecom Utility 12"x12" Quazite Box
- AT3 Install 281 LF 2" PVC Conduit
- AT4 Install 15 LF 2" PVC Conduit
- AT5 Install 215 LF 2" PVC Conduit
- AT6 Install 19 LF 2" PVC Conduit

Underdrain Construction Notes

- UD1 Install 4" Dia. Perforated HDPE @ 0.5% minimum slope.
- UD2 Install 4" Dia. HDPE Tee
- UD3 Connect to Storm Structure 5705, E=817.50.
- UD4 Connect to Storm Structure 5702, E=816.60.
- UD5 Connect to Storm Structure 5701, E=813.28.
- UD6 Connect to Storm Structure 5101, E=809.75.
- UD7 Connect to Storm Structure 5102, E=808.75.
- UD8 Connect to Storm Structure 4301, E=817.70.
- UD9 Connect to Storm Structure 4302, E=817.80.
- UD10 Connect to Storm Structure 5401, E=817.50.

General Utility Notes

- See Sheet C017 for Construction Details.
- Contractor to deflect conduits as necessary to avoid conflicts with other utilities.
- Contractor shall coordinate with the Surveyor to leave trenches open for collecting survey data for record drawings.
- Water line minimum burial depth shall be 42 inches.

Electrical Service General Notes

- Electrical routing reflects the latest, although preliminary designs from Every. Final routing of conduit shall match final design from Every.
- Electrical conduit shall be NEC approved schedule 40 gray PVC.
- Electrical trench, conduit, and backfill per Every Standards (Typ. All).

Legend

| | | | |
|-----|-------------------------------|--|-----------------------------|
| W | Proposed Water Line | | Proposed Building |
| | Proposed Storm Sewer | | Proposed HD Asphalt Surface |
| SAN | Proposed Sanitary Sewer | | Proposed LD Asphalt Surface |
| GAS | Proposed Gas Line | | Proposed Concrete |
| UGE | Proposed Underground Electric | | |
| UGT | Proposed Telecom | | |
| | Flow Path | | |

Notes:

- Pipe length called out is from center of structure to center of structure. Payment for pipe length is from inside face to inside face of structure.
- Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.
- Tops on all in grade inlets shall maintain street slope, low point inlets to be set level.
- Fire department connection locations are preliminary and subject to change upon final design. IFC distance requirements for FDCs shall be met with final design.

CAUTION!

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

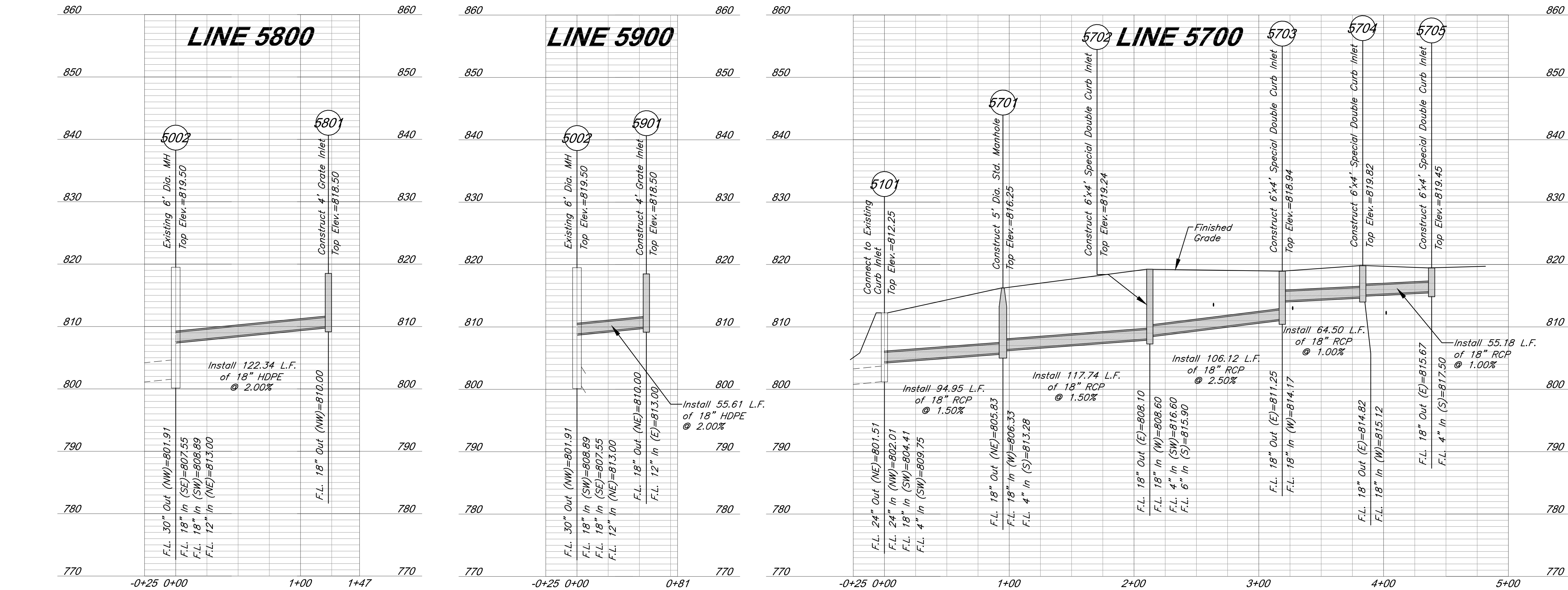
Utility Plan

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C012

G:\127201 Civil 3D Production Drawings\LS Multifamily FDP\127201400.dwg Layout: C013 Storm Sewer Profiles -- Friday, January 28, 2022, 10:30am -- Copyright 2022, George Butler Associates, Inc. THE PROFESSIONAL WHOSE SEAL SIGNATURE AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INTENDING TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



| 10 Year Storm | | | | | | | | | | | Pipe Design | | | | | | | | | | Design Checks | | | | | | | | | | | | |
|---------------|------|---------------------|----------------|-------------------|------|------|----------|-----------------|-------------------|----------------|--------------|----------------------|---------------------|---------------|-------------------|--------------|---------------|------------|--------------|------|----------------|-------------------------|--------------------------|---------------------|-------------------|---------------------|-----------------|----------------------------|-----------------------------------|-----------------------------|----------|--|--|
| Structures | | Runoff Calculations | | | | | | | | | Pipe Design | | | | | | | | | | Design Checks | | | | | | | | | | | | |
| From | To | Direct Area (acre) | Line In (acre) | Total Area (acre) | C | K | Tc (min) | Flow Time (min) | Intensity (in/hr) | Design Q (cfs) | Description | Pipe length (lin ft) | Pipe Slope Slope, % | Pipe dia (in) | Manning's n Value | Q full (cfs) | Pipe Area, sf | V full fps | Design V fps | Hw/D | outlet head, H | HW, Inlet Control, (ft) | HW, Outlet Control, (ft) | Inlet Top Elevation | Upstream flowline | Downstream flowline | Inlet Drop (ft) | Downstream Water Elevation | Hydraulic Grade Elev (Calculated) | Hydraulic Grade (Allowable) | Comments | | |
| Line 5700 | 5705 | 0.13 | | 0.90 | 1.00 | 5.00 | | | 7.35 | 0.9 | Curb Inlet | | | | | | | | | | | | | | 819.45 | | | | | 816.68 | 818.95 | | |
| | 5704 | | 0.13 | 0.90 | 1.00 | 5.00 | 0.25 | | 7.35 | 0.9 | RCP | 55.18 | 1.00 | 18 | 0.013 | 10.53 | 1.77 | 5.96 | 3.63 | 0.7 | 0.01 | 816.68 | 815.85 | 819.45 | 815.67 | 815.12 | | | 815.84 | | | | |
| | 5704 | 0.05 | | 0.90 | 1.00 | 5.00 | | | 7.35 | 0.3 | Curb Inlet | | | | | | | | | | | | | | | | 0.3 | | 815.84 | 819.32 | | | |
| | 5703 | | 0.18 | 0.90 | 1.00 | 5.00 | 0.27 | | 7.35 | 1.2 | RCP | 64.50 | 1.00 | 18 | 0.013 | 10.53 | 1.77 | 5.96 | 3.95 | 0.7 | 0.03 | 815.84 | 812.35 | 819.82 | 814.82 | 814.17 | | | 812.32 | | | | |
| | 5703 | 0.16 | | 0.90 | 1.00 | 5.00 | | | 7.35 | 1.1 | Curb Inlet | | | | | | | | | | | | | | | | 2.92 | | 812.32 | 818.44 | | | |
| | 5702 | | 0.34 | 0.90 | 1.00 | 5.00 | 0.27 | | 7.35 | 2.3 | RCP | 106.12 | 2.50 | 18 | 0.013 | 16.65 | 1.77 | 9.42 | 6.61 | 0.7 | 0.14 | 812.32 | 809.35 | 819.84 | 811.25 | 808.60 | | | 809.21 | | | | |
| | 5702 | 0.09 | | 0.90 | 1.00 | 5.00 | | | 7.35 | 0.6 | Junction Box | | | | | | | | | | | | | | | | 0.5 | | 809.21 | 818.74 | | | |
| | 5701 | | 0.43 | 0.90 | 1.00 | 5.00 | 0.34 | | 7.35 | 2.8 | RCP | 117.74 | 1.50 | 18 | 0.013 | 12.90 | 1.77 | 7.30 | 5.82 | 0.7 | 0.24 | 809.21 | 807.18 | 819.24 | 808.10 | 806.33 | | | 806.94 | | | | |
| | 5701 | 0.00 | | 0.90 | 1.00 | 5.00 | | | 7.35 | 0.0 | Junction Box | | | | | | | | | | | | | | | | 0.5 | | 806.94 | 815.75 | | | |
| | 5101 | | 0.43 | 0.90 | 1.00 | 5.34 | 0.27 | | 7.25 | 2.8 | RCP | 94.95 | 1.50 | 18 | 0.013 | 12.90 | 1.77 | 7.30 | 5.82 | 0.7 | 0.20 | 806.94 | 805.36 | | 805.83 | 804.41 | | | 805.16 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line 5800 | 5801 | | 0.25 | | 0.90 | 1.00 | 5.00 | | 7.35 | 1.7 | Curb Inlet | | | | | | | | | | | | | | 818.50 | | | | | 811.04 | 818.00 | | |
| | 5002 | | | 0.25 | 0.90 | 1.00 | 5.00 | 0.36 | 7.35 | 1.7 | RCP | 122.34 | 2.00 | 18 | 0.013 | 14.90 | 1.77 | 8.43 | 5.59 | 0.7 | 0.08 | 811.04 | 808.38 | | 810.00 | 807.55 | | | 808.30 | | | | |
| Line 5900 | 5901 | | 0.14 | 0.32 | 0.90 | 1.00 | 5.00 | | 7.35 | 0.9 | Curb Inlet | | | | | | | | | | | | | | 818.50 | | | | | 811.13 | 818.00 | | |
| | 5002 | | 0.46 | 0.90 | 1.00 | 5.00 | 0.14 | | 7.35 | 3.0 | RCP | 55.61 | 2.00 | 18 | 0.013 | 14.90 | 1.77 | 8.43 | 6.58 | 0.7 | 0.16 | 811.13 | 809.80 | | 810.00 | 808.89 | | | 809.64 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 809.64 | | |

| 100 Year Storm | | | | | | | | | | | Pipe Design | | | | | | | | | | Design Checks | | | | | | | | | | |
|----------------|------|---------------------|----------------|-------------------|------|------|----------|-----------------|-------------------|----------------|--------------|----------------------|---------------------|---------------|-------------------|--------------|---------------|------------|--------------|------|----------------|-------------------------|--------------------------|---------------------|-------------------|---------------------|-----------------|-----------------|------------------------------------|-----------------------------|----------|
| Structures | | Runoff Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From | To | Direct Area (acre) | Line In (acre) | Total Area (acre) | C | K | Tc (min) | Flow Time (min) | Intensity (in/hr) | Design Q (cfs) | Description | Pipe length (lin ft) | Pipe Slope Slope, % | Pipe dia (in) | Manning's n Value | Q full (cfs) | Pipe Area, sf | V full fps | Design V fps | Hw/D | outlet head, H | HW, Inlet Control, (ft) | HW, Outlet Control, (ft) | Inlet Top Elevation | Upstream flowline | Downstream flowline | Inlet Drop (ft) | Water Elevation | Hydraulic Grade Elev. (Calculated) | Hydraulic Grade (Allowable) | Comments |
| Line 5700 | 5705 | 0.13 | | 0.13 | 0.90 | 1.25 | 5.00 | | 10.32 | 1.5 | Curb Inlet | | | | | | | | | | | | | | 819.45 | | | | 816.70 | 818.95 | |
| | 5704 | 0.05 | | 0.18 | 0.90 | 1.25 | 5.00 | 0.25 | 10.32 | 1.5 | RCP | 55.18 | 1.00 | 18 | 0.013 | 10.53 | 1.77 | 5.96 | 3.63 | 0.7 | 0.04 | 816.70 | 815.92 | | 815.67 | 815.12 | | 815.88 | 819.32 | | |
| | 5703 | 0.16 | | 0.34 | 0.90 | 1.25 | 5.00 | 0.27 | 10.32 | 2.1 | Curb Inlet | 64.50 | 1.00 | 18 | 0.013 | 10.53 | 1.77 | 5.96 | 3.95 | 0.7 | 0.08 | 815.88 | 812.54 | | 819.82 | 814.82 | 814.17 | 0.3 | 812.46 | 819.32 | |
| | 5702 | 0.09 | | 0.43 | 0.90 | 1.25 | 5.00 | 0.27 | 10.32 | 3.9 | RCP | 106.12 | 2.50 | 18 | 0.013 | 16.65 | 1.77 | 9.42 | 6.61 | 0.8 | 0.42 | 812.46 | 809.85 | | 819.84 | 811.25 | 808.60 | 2.92 | 809.42 | 818.44 | |
| | 5701 | 0.00 | | 0.43 | 0.90 | 1.25 | 5.00 | 0.34 | 10.32 | 1.0 | Junction Box | | | | | | | | | | | | | 819.24 | | | 0.5 | 809.42 | 818.74 | | |
| | 5701 | 0.00 | | 0.43 | 0.90 | 1.25 | 5.00 | 0.34 | 10.32 | 5.0 | RCP | 117.74 | 1.50 | 18 | 0.013 | 12.90 | 1.77 | 7.30 | 5.82 | 0.9 | 0.74 | 809.42 | 807.89 | | 819.24 | 808.10 | 806.33 | 0.5 | 807.15 | 815.75 | |
| | 5101 | | | 0.43 | 0.90 | 1.25 | 5.34 | 0.27 | 10.18 | 4.9 | RCP | 94.95 | 1.50 | 18 | 0.013 | 12.90 | 1.77 | 7.30 | 5.82 | 0.9 | 0.61 | 807.15 | 805.77 | | 819.24 | 808.63 | 804.41 | | 805.16 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line 5800 | 5801 | 0.25 | | 0.25 | 0.90 | 1.25 | 5.00 | | 10.32 | 2.9 | Curb Inlet | | | | | | | | | | | | | | 818.50 | | | | 811.11 | 818.00 | |
| | 5002 | | | 0.25 | 0.90 | 1.25 | 5.00 | 0.36 | 10.32 | 2.9 | RCP | 122.34 | 2.00 | 18 | 0.013 | 14.90 | 1.77 | 8.43 | 5.59 | 0.7 | 0.26 | 811.11 | 808.56 | | 810.00 | 807.55 | | 808.30 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line 5900 | 5901 | 0.14 | 0.32 | | 0.90 | 1.25 | 5.00 | | 10.32 | 1.6 | Curb Inlet | | | | | | | | | | | | | | 818.50 | | | | 811.37 | 818.00 | |
| | 5002 | | | 0.46 | 0.90 | 1.25 | 5.00 | 0.14 | 10.32 | 5.3 | RCP | 55.61 | 2.00 | 18 | 0.013 | 14.90 | 1.77 | 8.43 | 6.58 | 0.9 | 0.49 | 811.37 | 810.13 | | 810.00 | 808.89 | | 809.64 | | | |

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PROJECT:

Paragon Star North Village

3200 NW Paragon Parkway, Lee's Summit, MO 64081

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

Storm Sewer Profiles

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C013

Final Development Plan

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

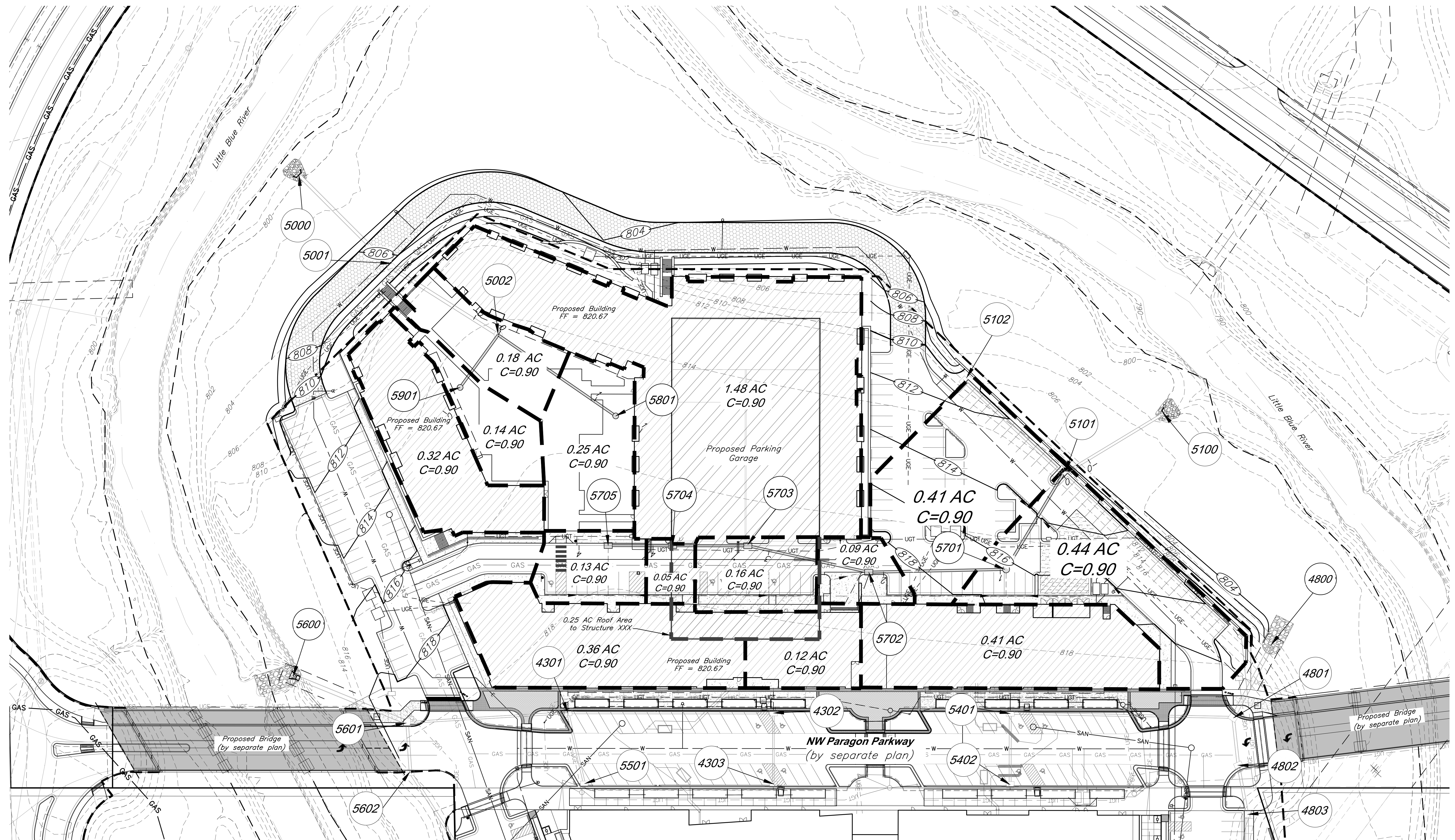
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Drainage Map







JOB NO: 1249 SCALE:
 DATE: 01.28.2022 DRAWN BY: JRH

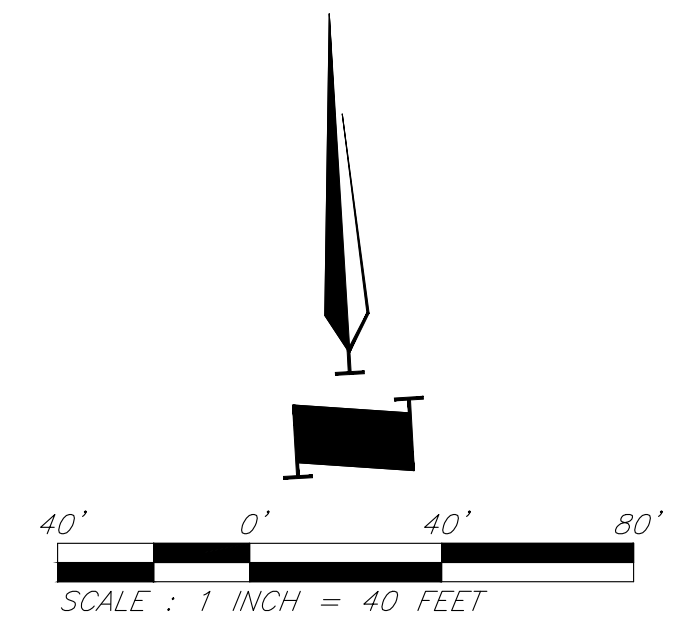
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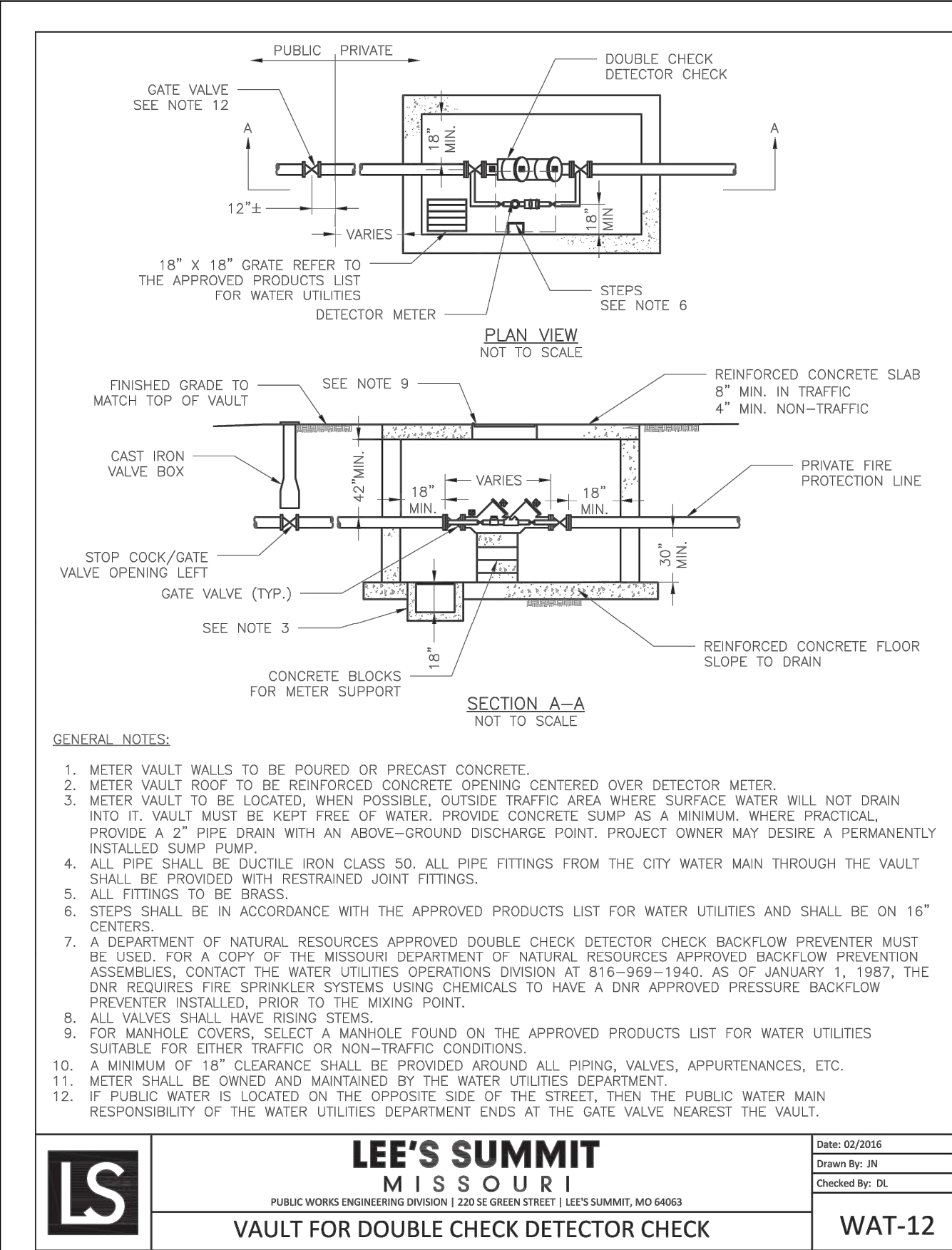


Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

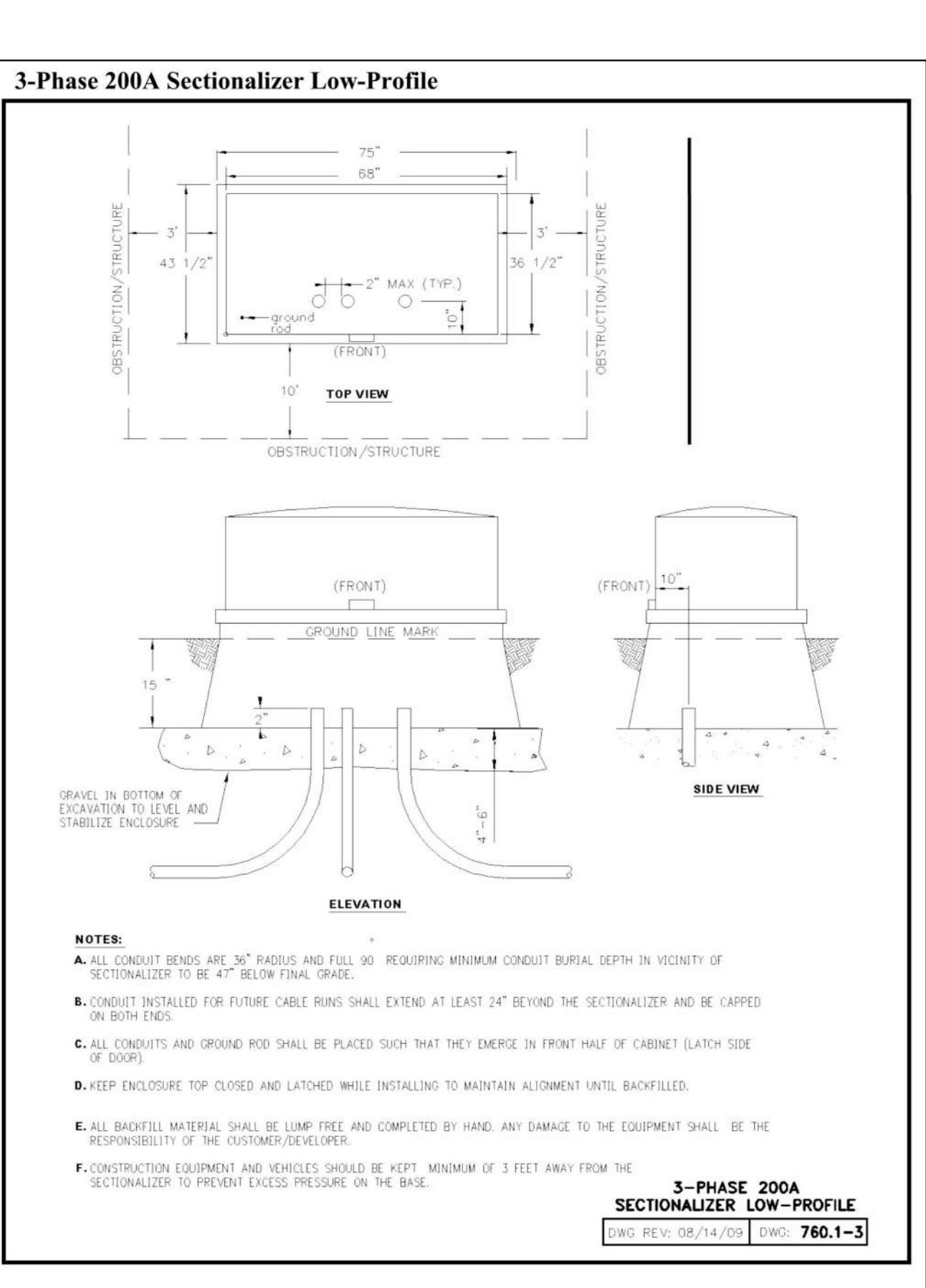
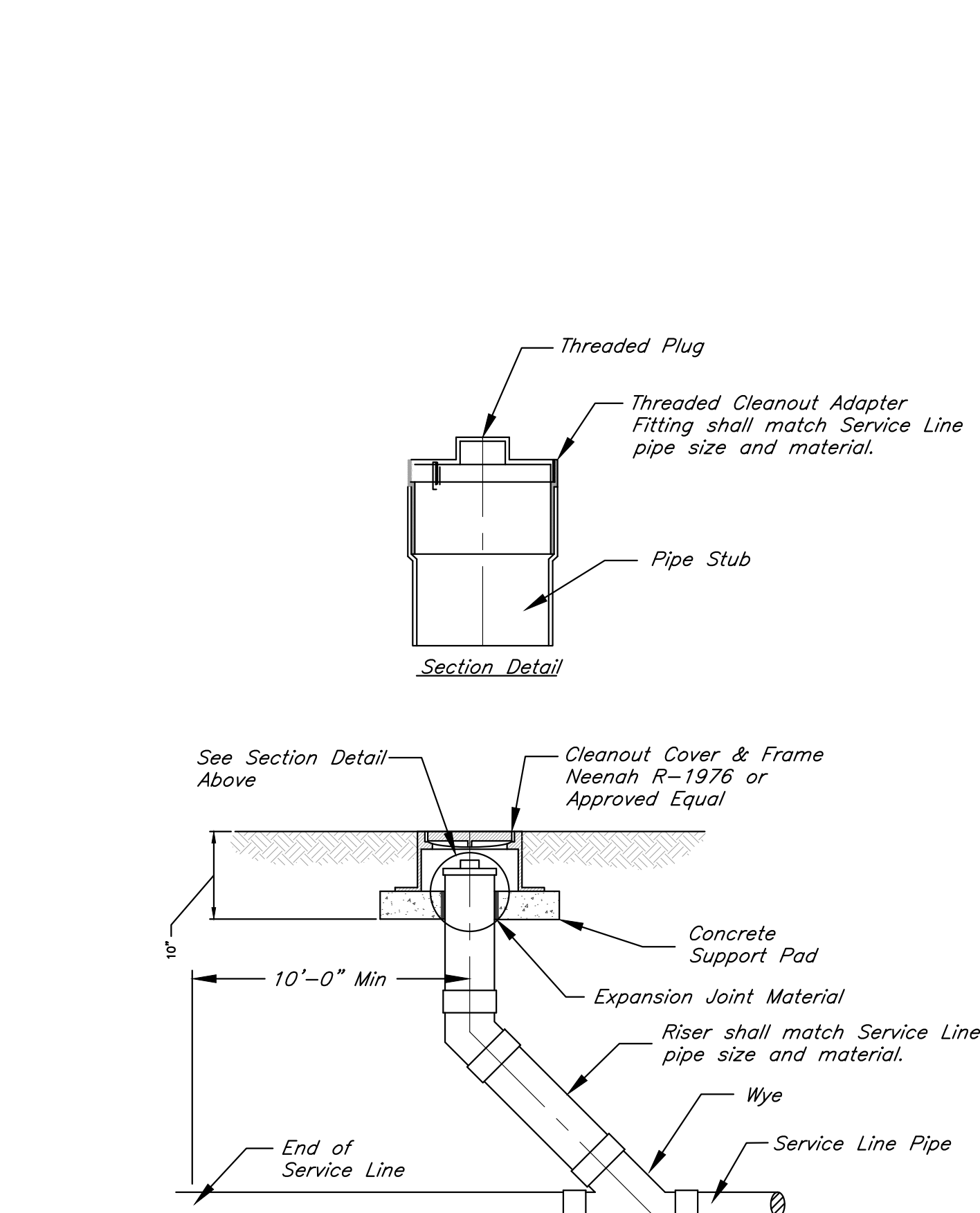
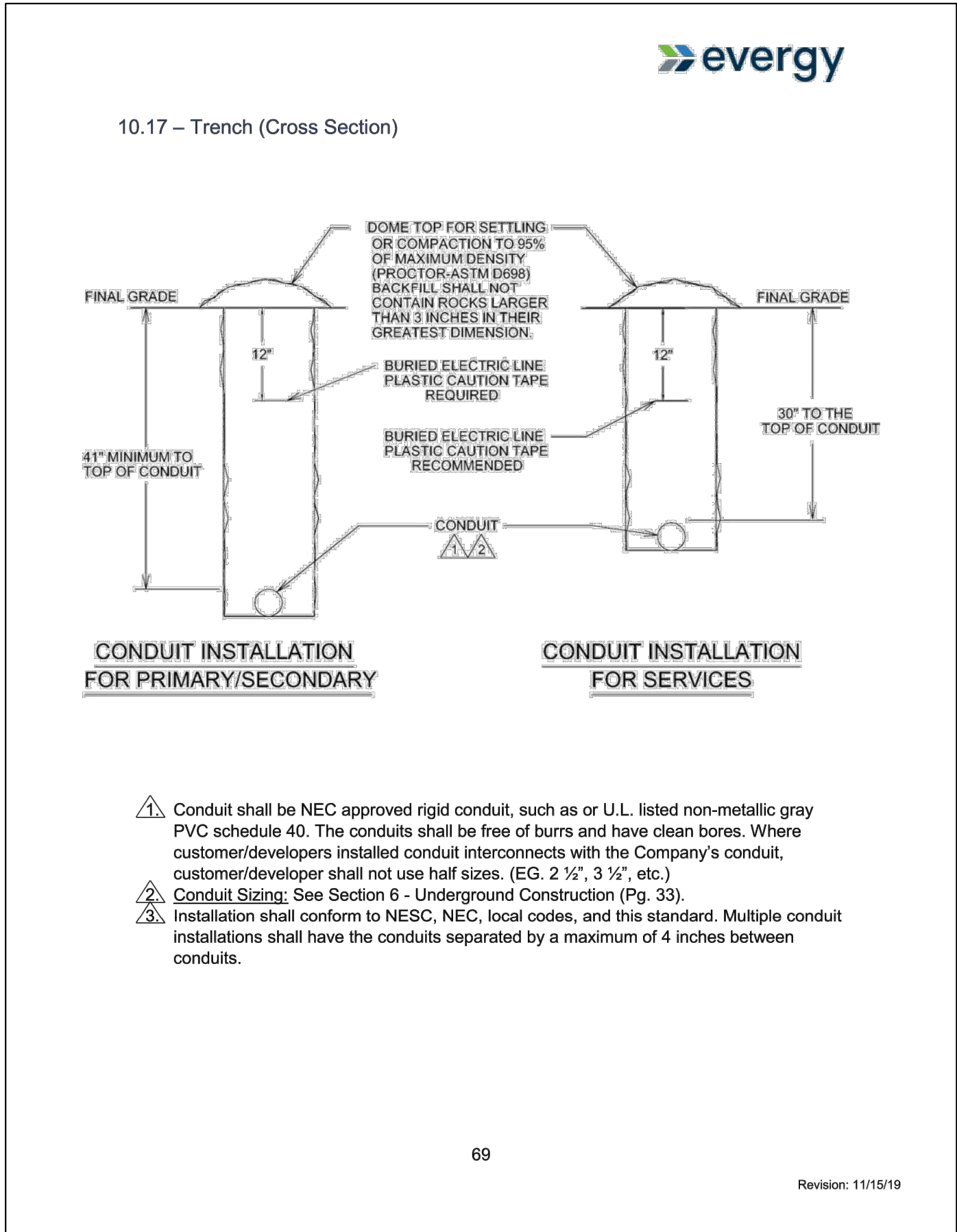
 Existing Contour
 Proposed Contour
 Proposed Drainage Area
 Drainage Area
 Proposed Storm Sewer
 Future Storm Sewer



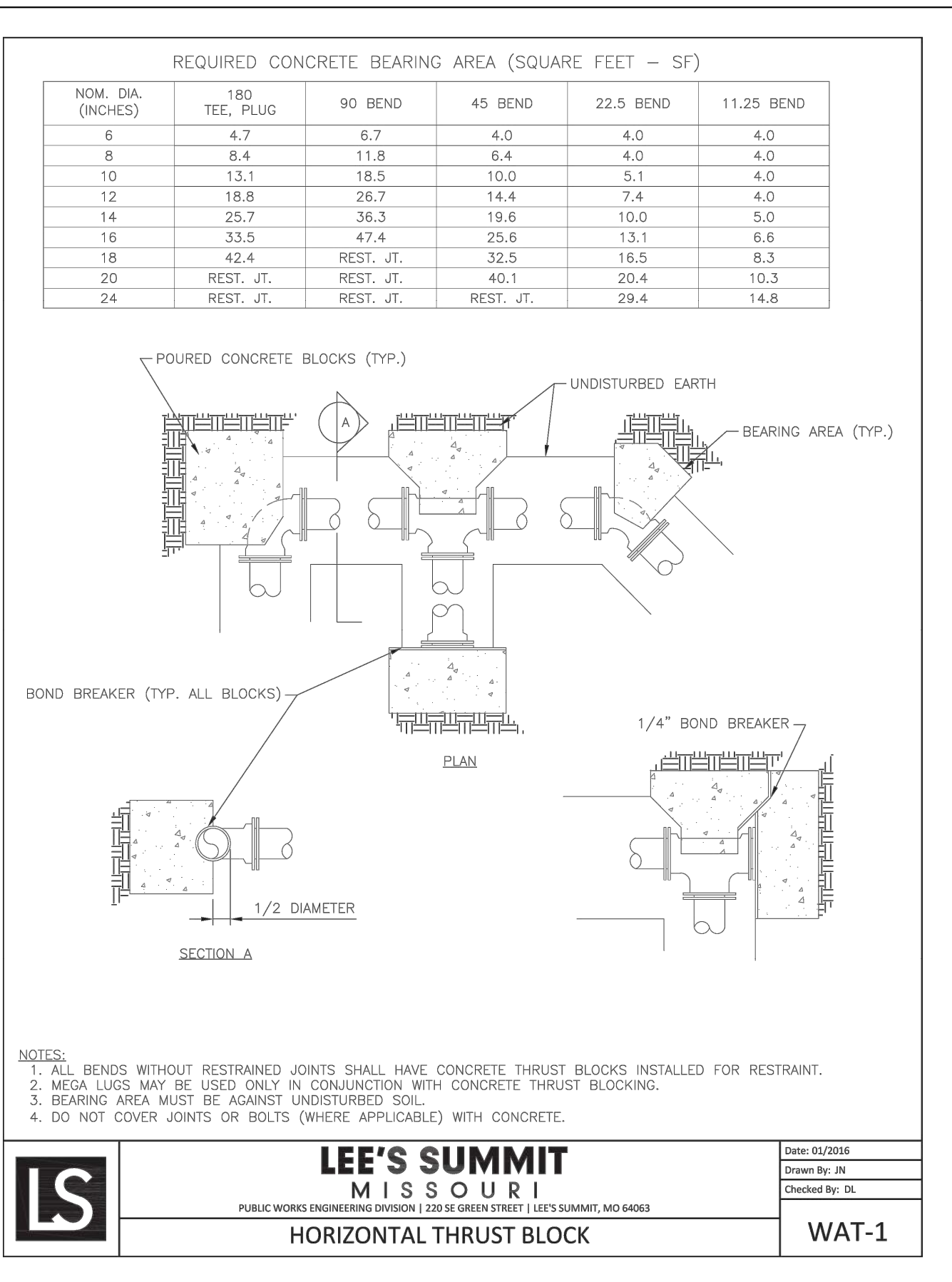
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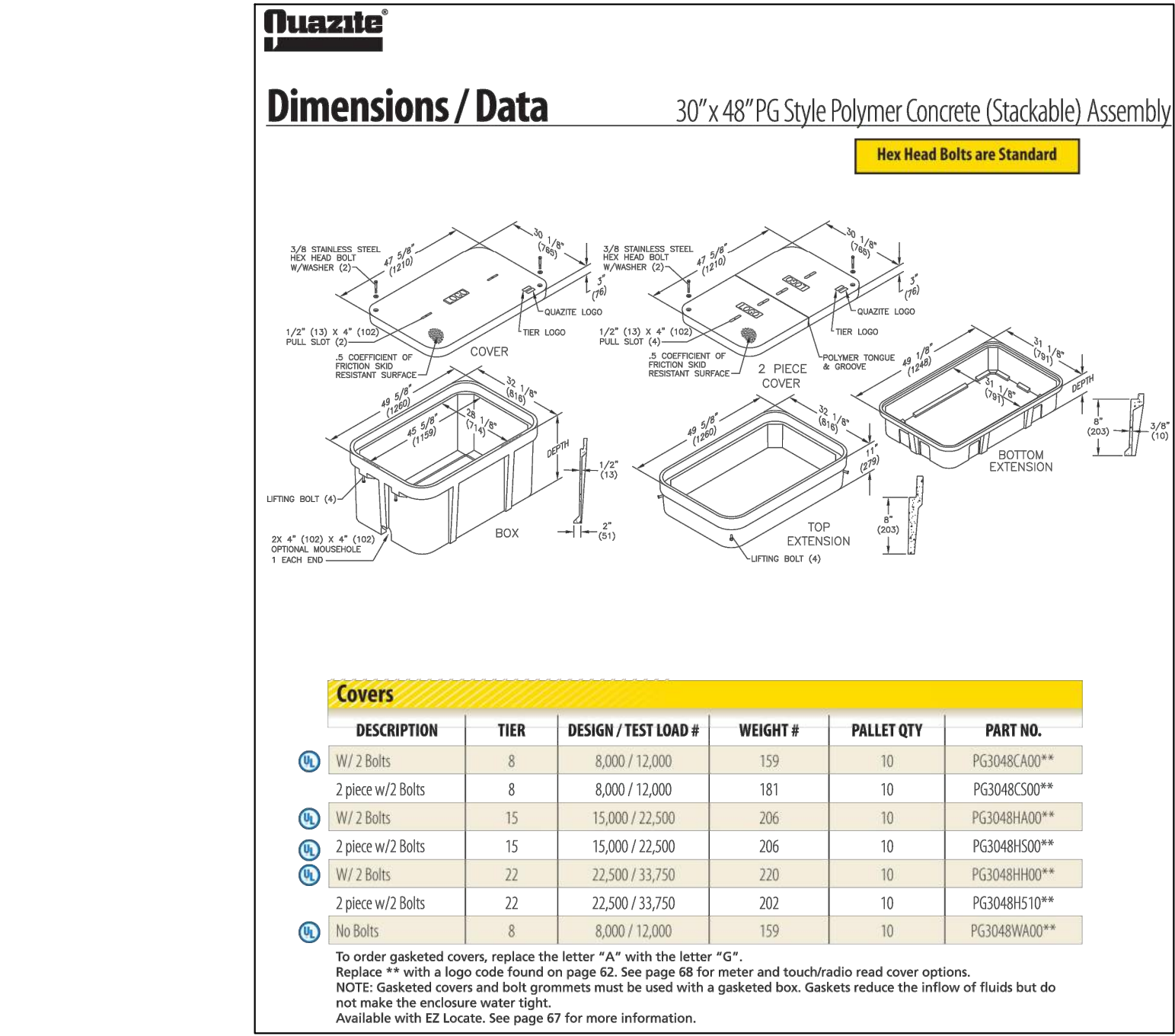
WATER METER VAULT DETAIL
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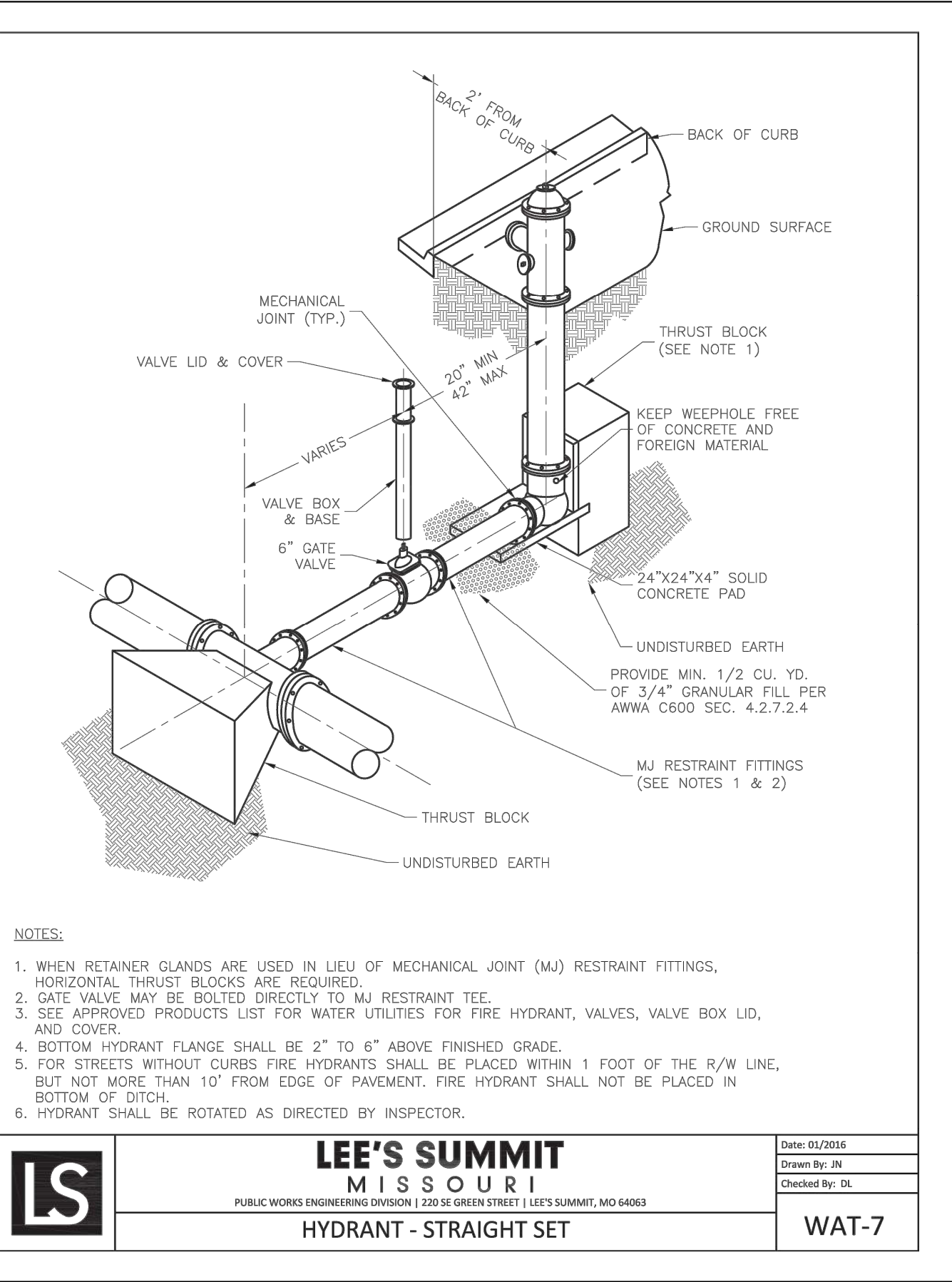
SECTIONALIZER DETAIL
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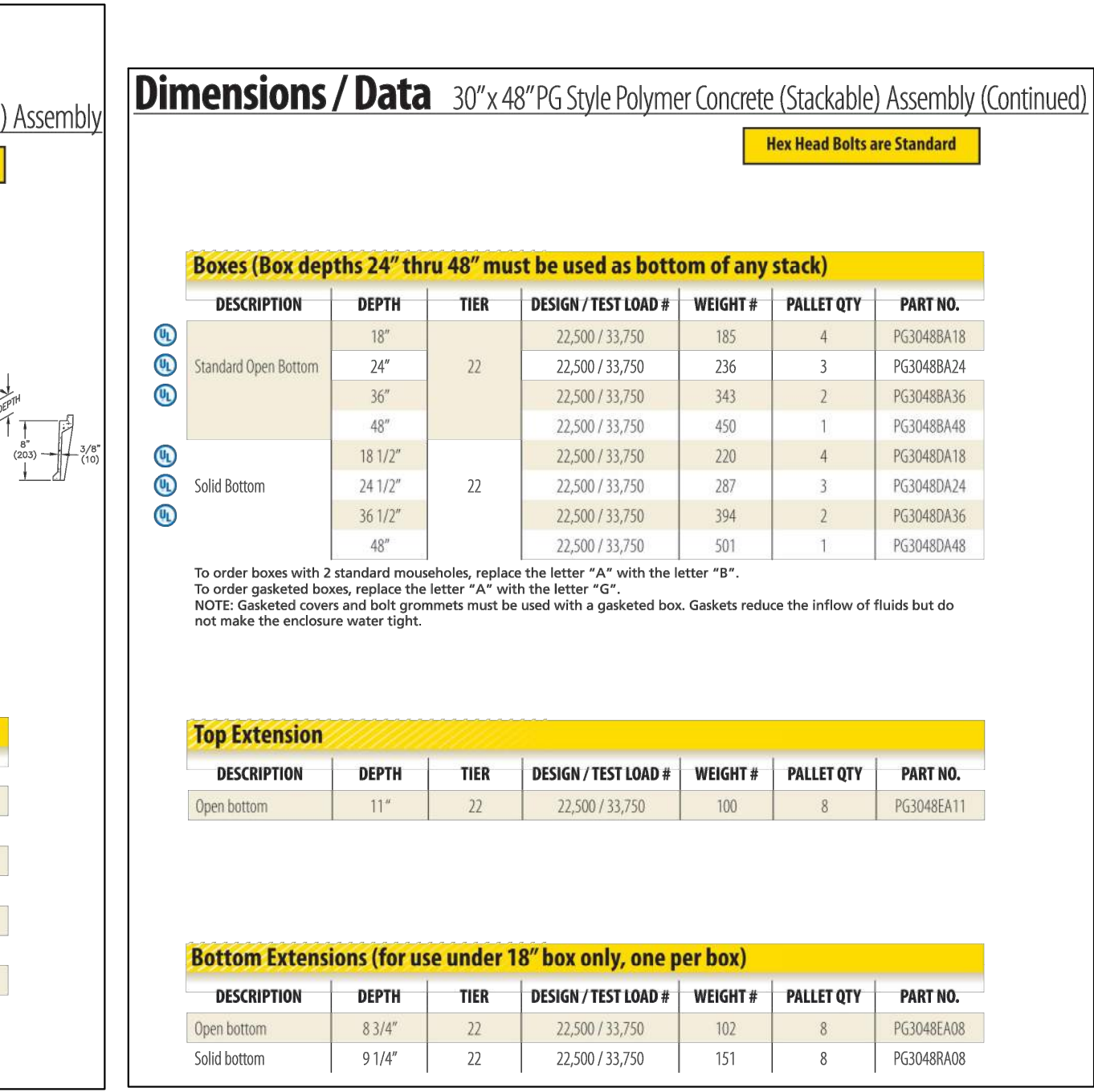
THRUST BLOCK DETAIL
Not to Scale



TELECOM PULL BOX
Not to Scale



FIRE HYDRANT DETAIL
Not to Scale



TELECOM PULL BOX
Not to Scale

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

Utility Details

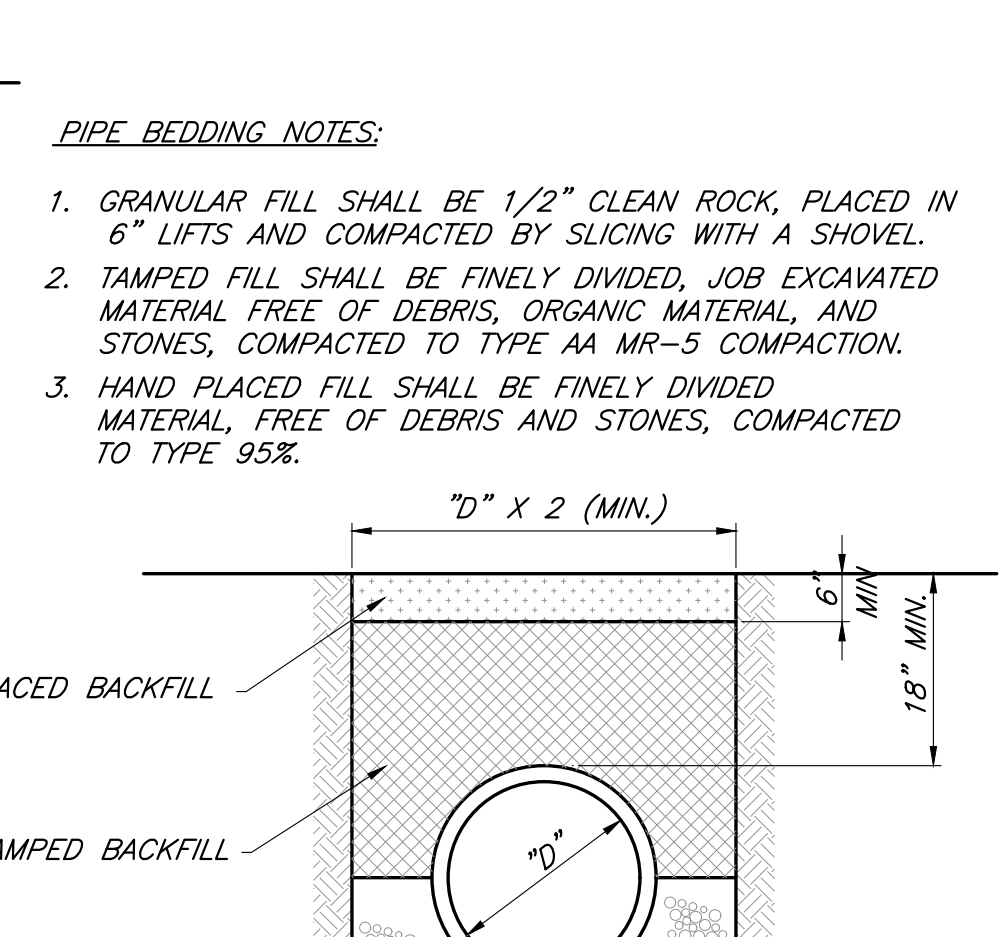
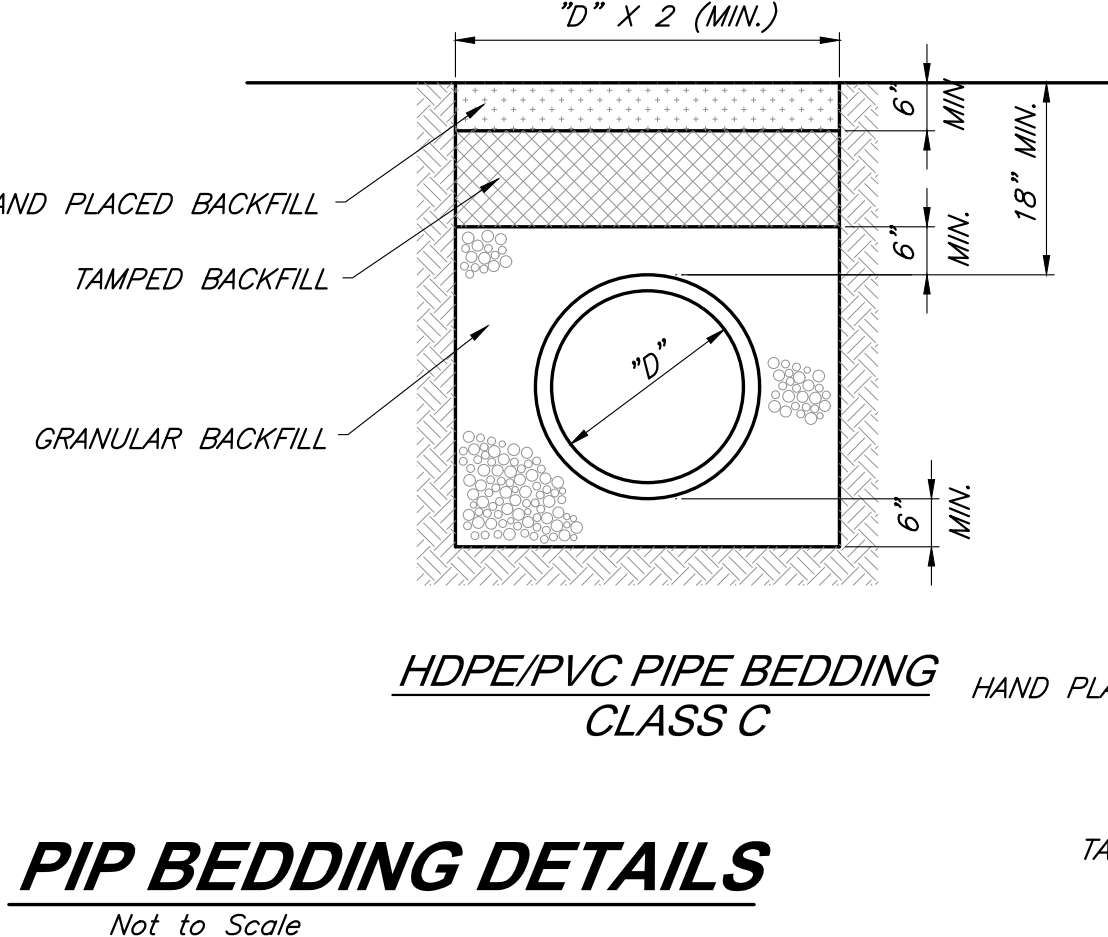
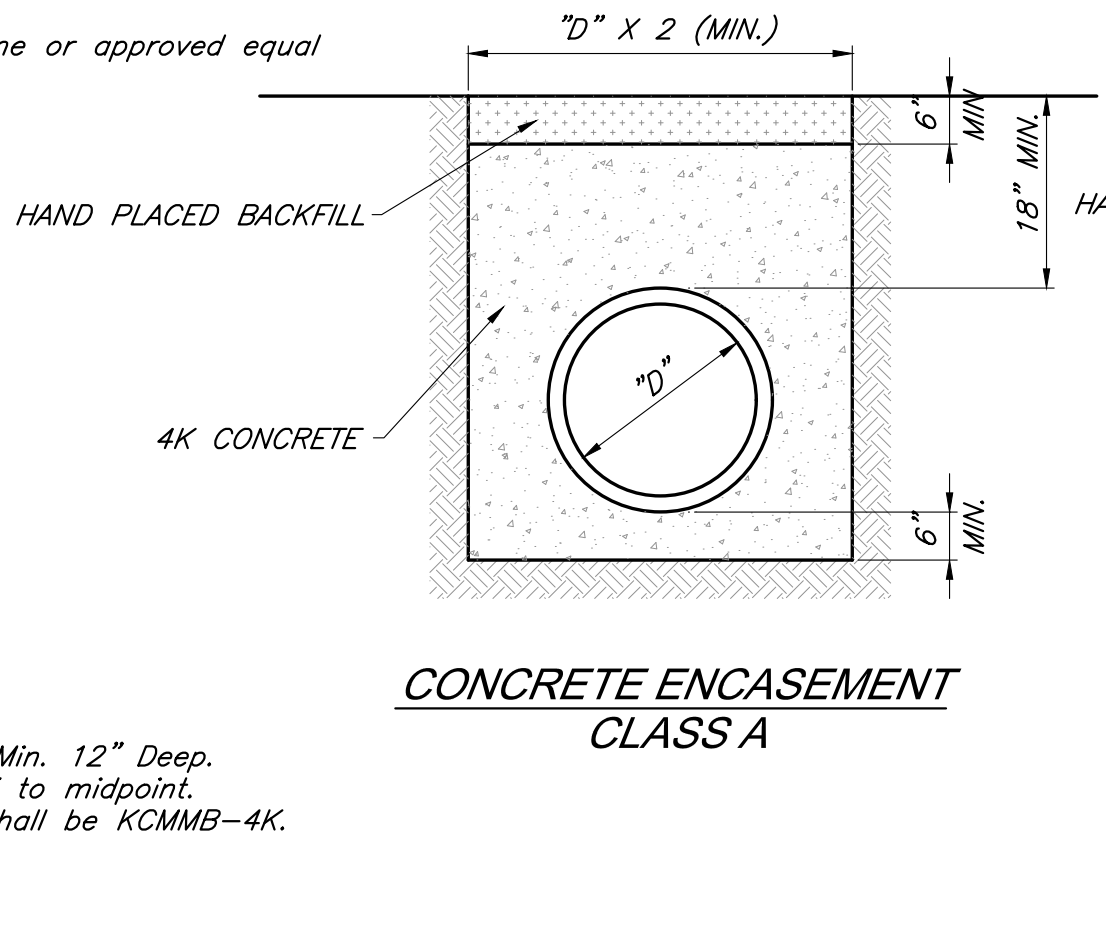
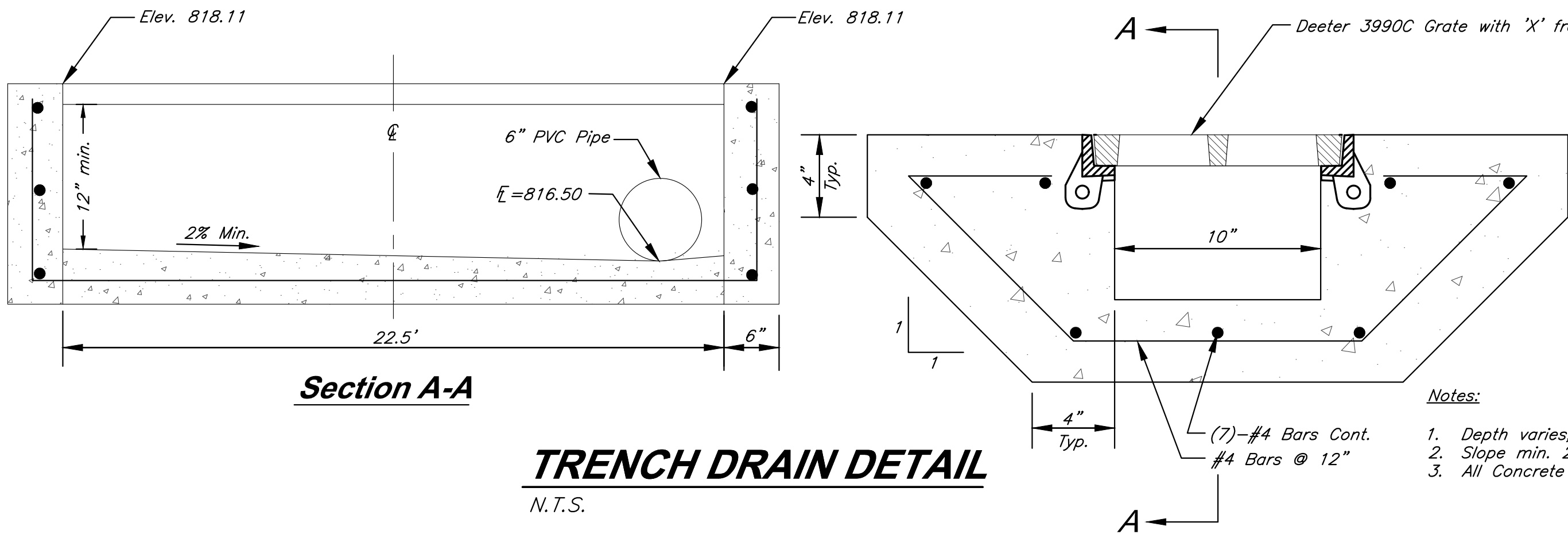
JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

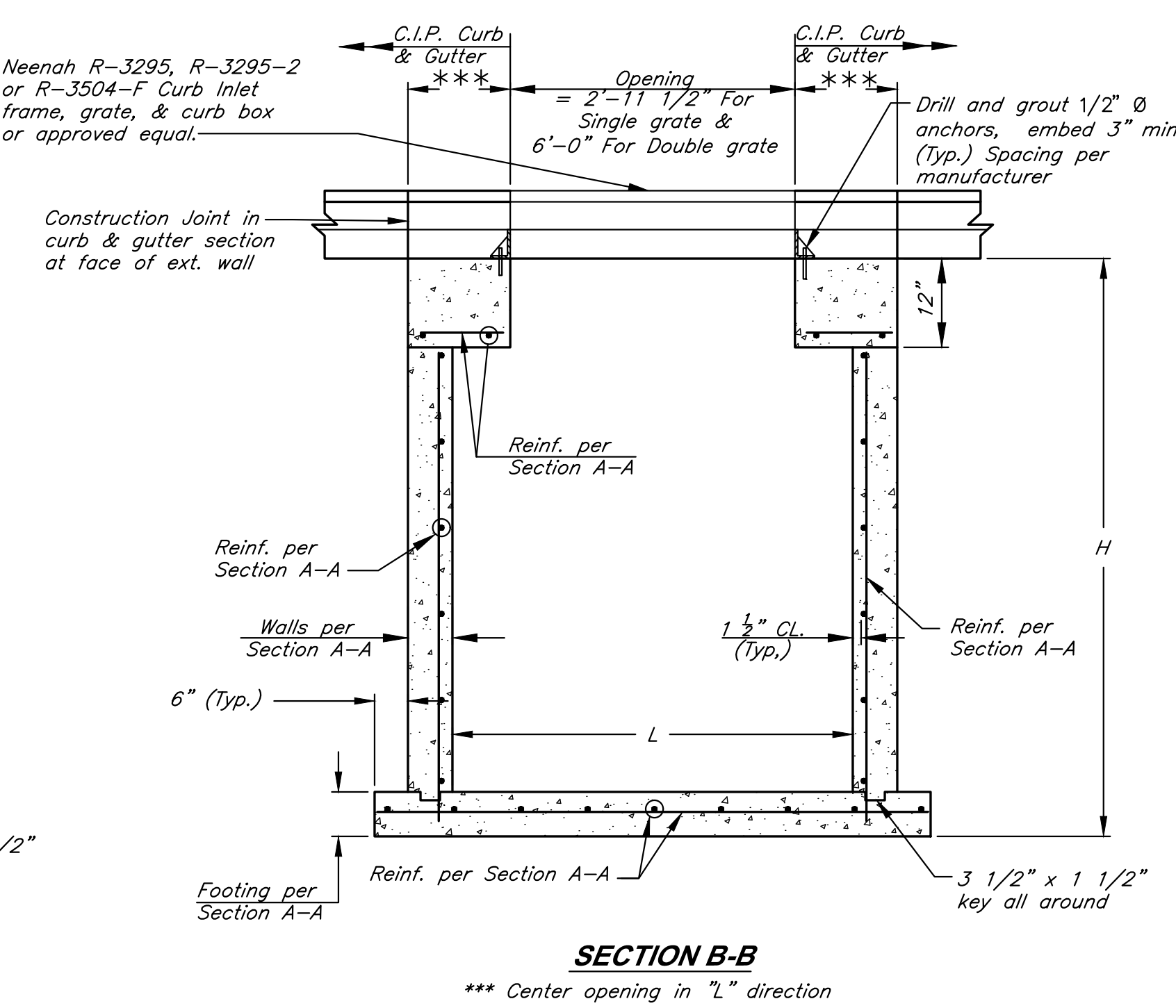
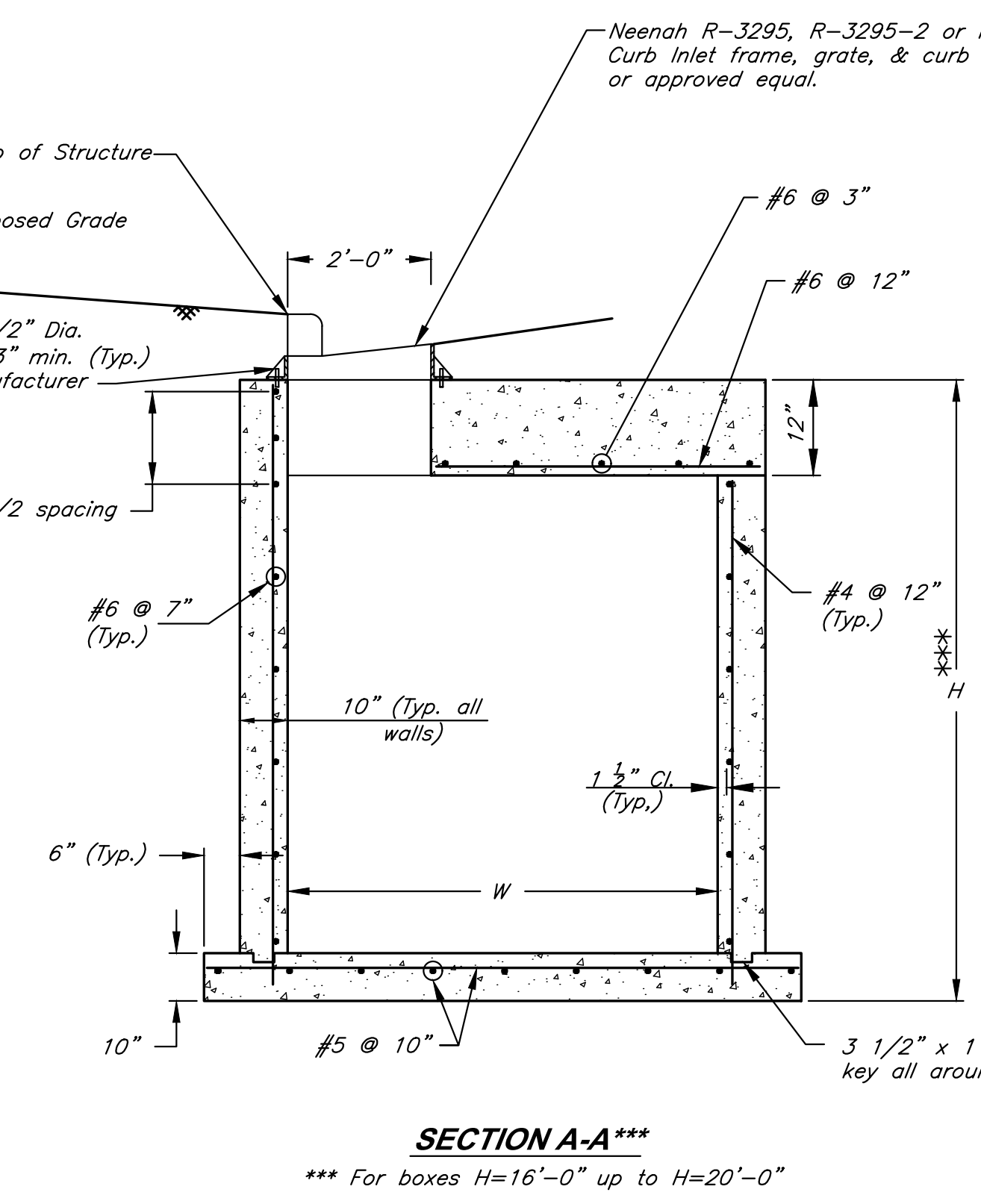
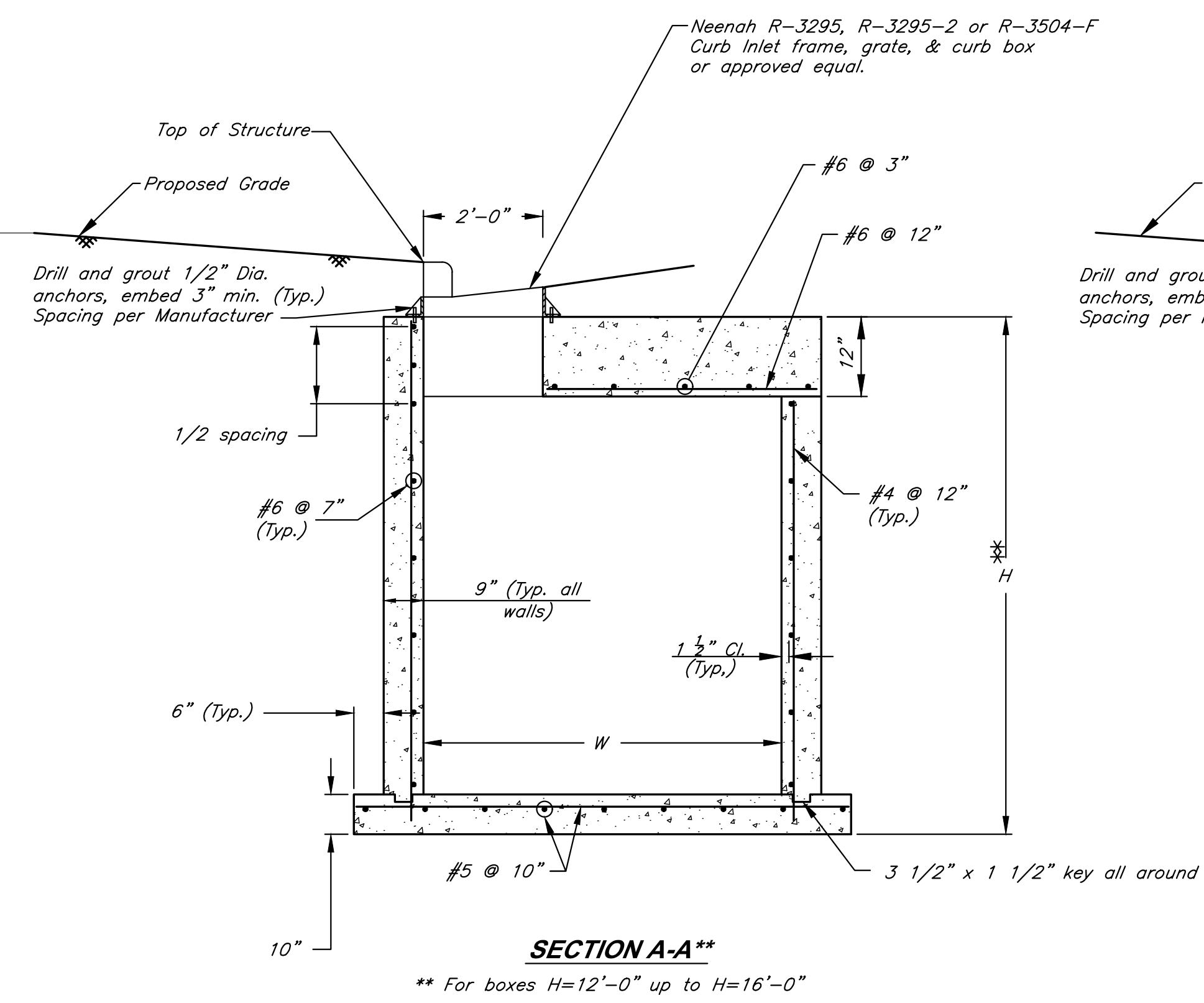
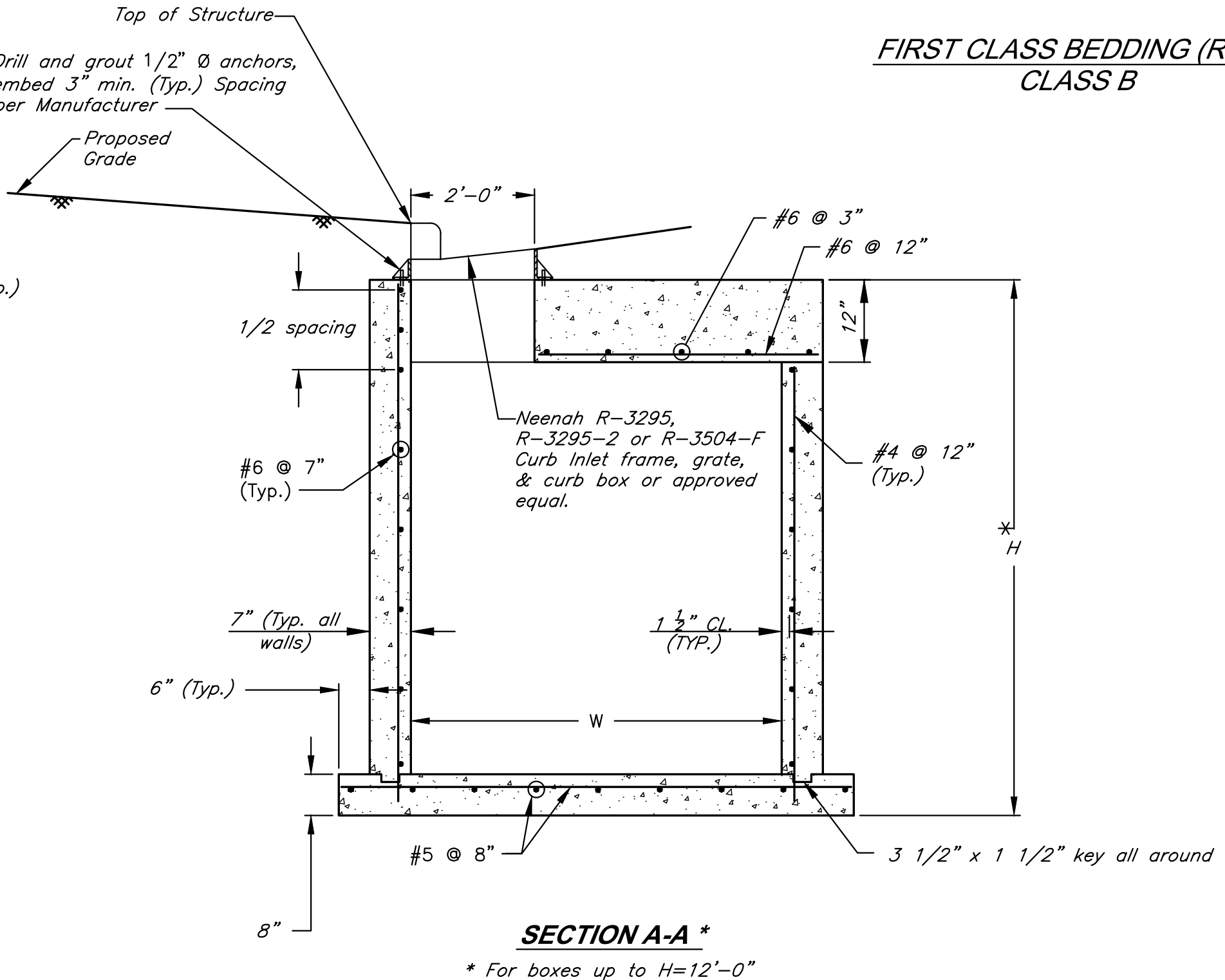
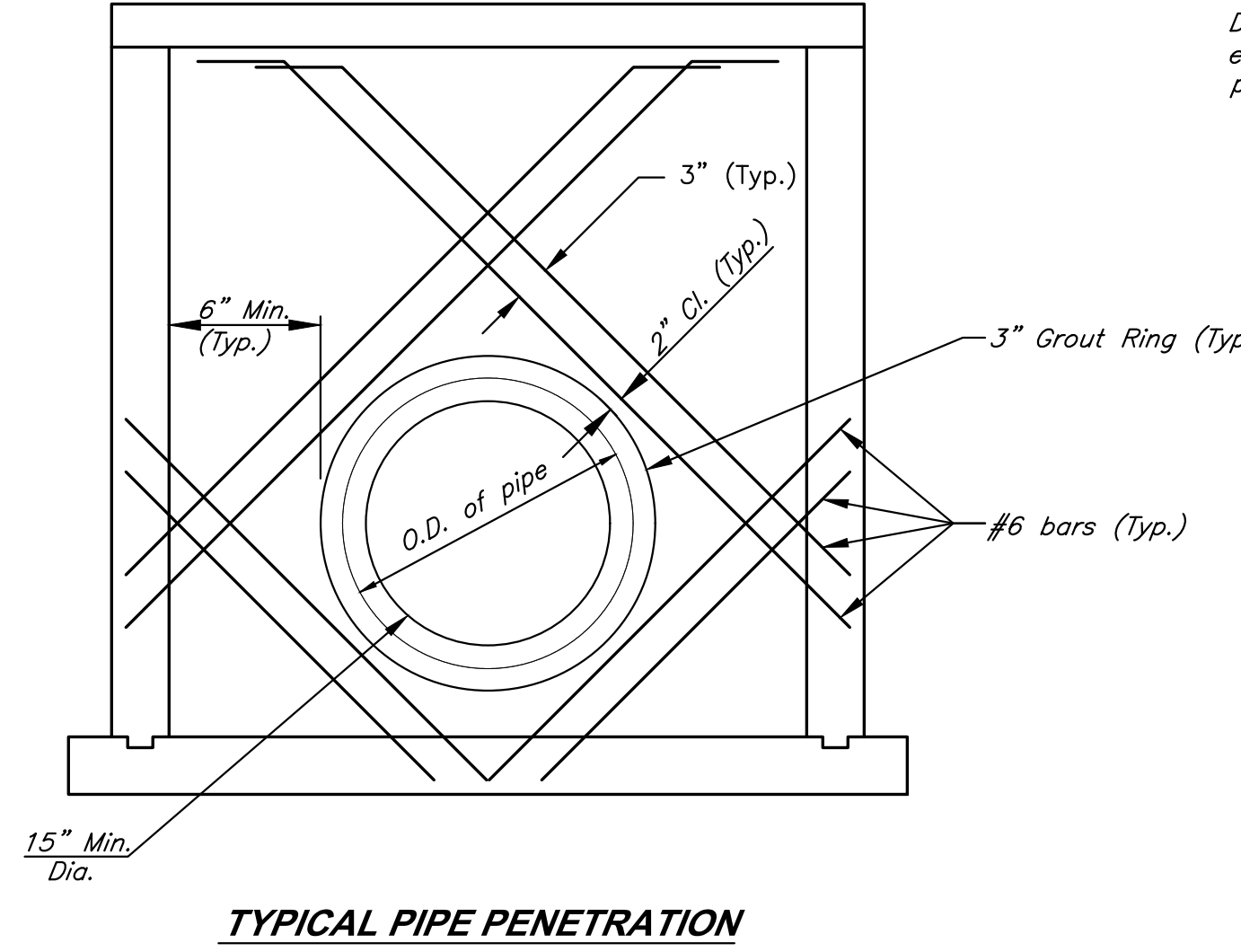
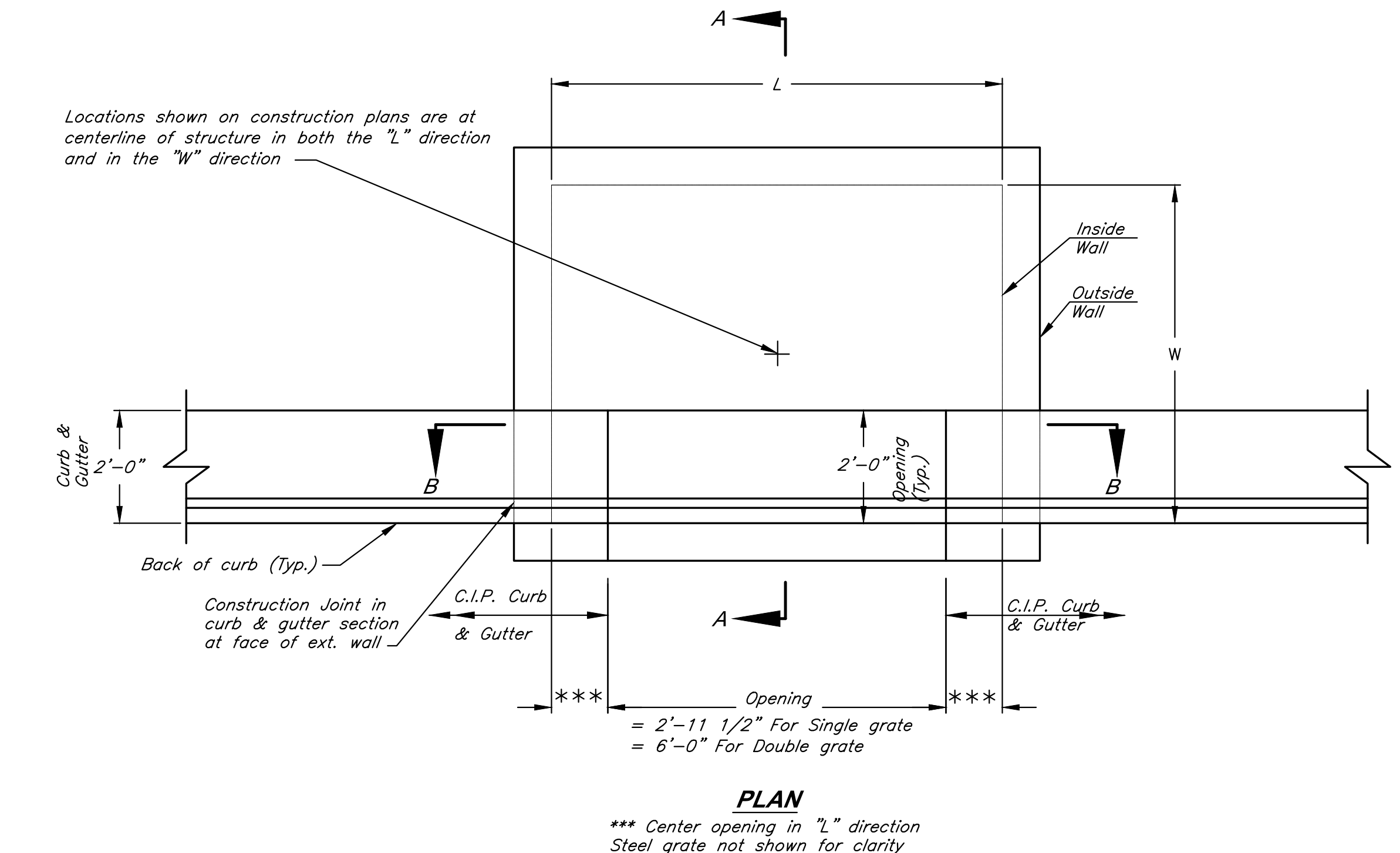
C015

Final Development Plan

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- PIPE BEDDING NOTES:**
1. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK, PLACED IN 6" LIFTS AND COMPACTED BY SLICING WITH A SHOVEL.
 2. TAMPED FILL SHALL BE FINELY DIVIDED, JOB EXCAVATED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES, COMPACTED TO TYPE AA MR-5 COMPACTION.
 3. HAND PLACED FILL SHALL BE FINELY DIVIDED MATERIAL, FREE OF DEBRIS AND STONES, COMPACTED TO TYPE 95%.



- Special Curb Inlet Notes:**
1. All concrete shall be KOMMB 4K.
 2. Floor of inlet shall have a shaped concrete invert to provide for smooth flow.
 3. The minimum dimension between the top of pipe and the top of box shall be 2'-6" (Typical all walls).
 4. Steps shall be C&B 2102, MA Industries PS2-PF or approved equal. (In the event "H" is equal to or greater than 12 feet MA Industries PS2-PF will not be allowed).
 5. Steps shall be spaced 1'-4" O.C. vertically and placed on a wall where there is no pipe penetrating the wall.
 6. Inlet construction notes shall list the "L" dimension first, the "W" dimension second, and the "H" dimension third. The maximum "L" and "W" dimensions are 8 ft and 6 ft., respectively. Any inlet exceeding either dimension shall be considered non-standard, and a detail shall be shown. Any such detail shall be sealed by a licensed Professional Engineer.
 7. All clear distances to reinforcing steel shall be 1-1/2" unless otherwise shown.
 8. Use HILTI HIT HY150 Injection Adhesive Anchor or approved equal for all anchor bolt grouting.
 9. All ingrade inlets shall conform to street grade. All inlets in sump shall be level. Bevel all exposed edges with 3/4" triangular molding.

SPECIAL CURB INLET
Not to Scale

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

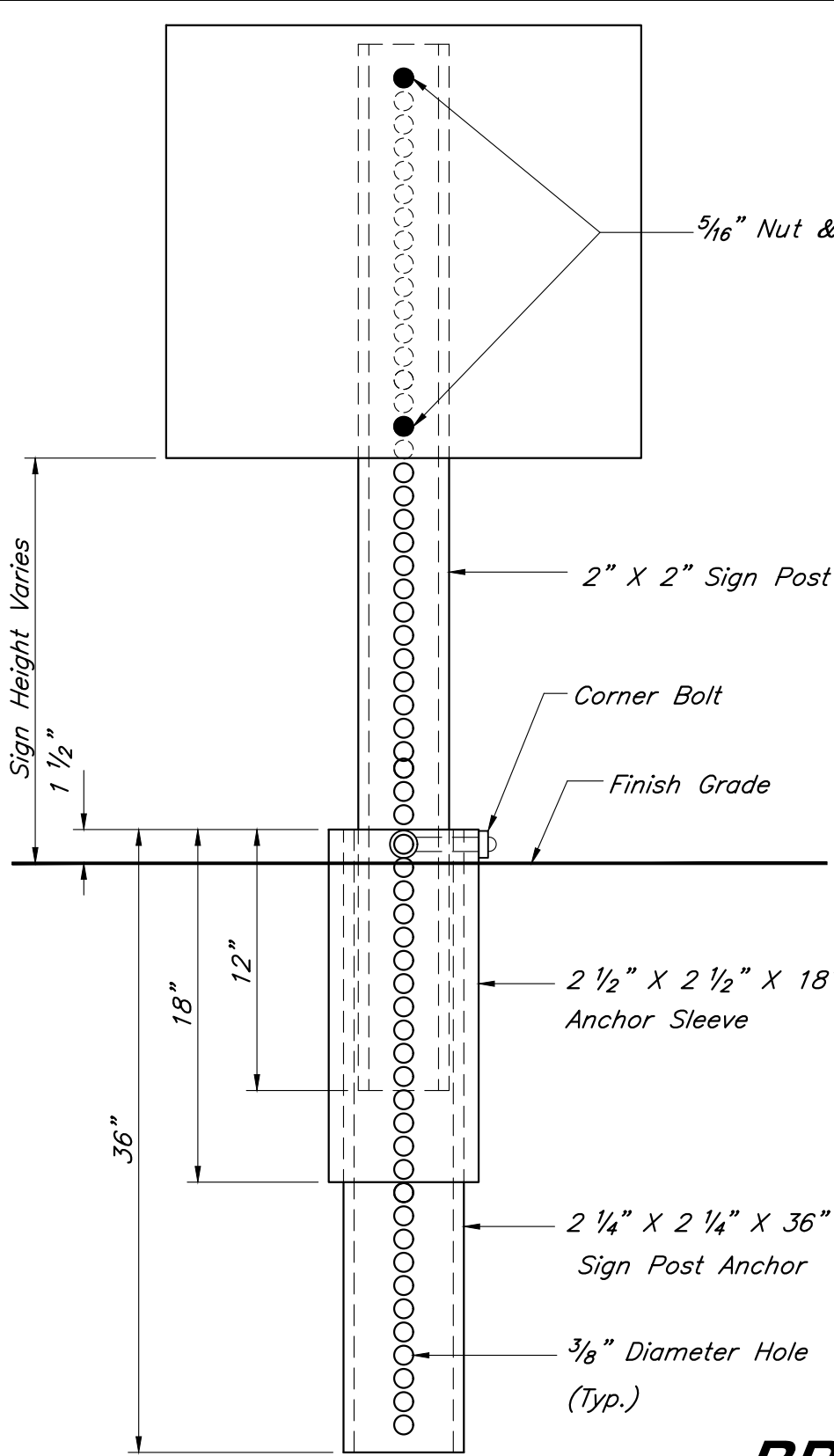
Storm Sewer Details

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C016

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BREAK-AWAY SIGN POST DETAIL

Not to Scale

- Pavement Installation Sequence**
1. Sign post anchor driven into subgrade prior to the placement of the pavement.
 2. Anchor sleeve driven into subgrade over the sign post anchor prior to the placement of the pavement.
 3. Insert sign post into the sign post anchor and bolt in place.

- Ground Installation Sequence**
1. Sign post anchor driven into the ground.
 2. Anchor sleeve driven into the ground over the sign post anchor.
 3. Insert sign post into the sign post anchor and bolt in place.

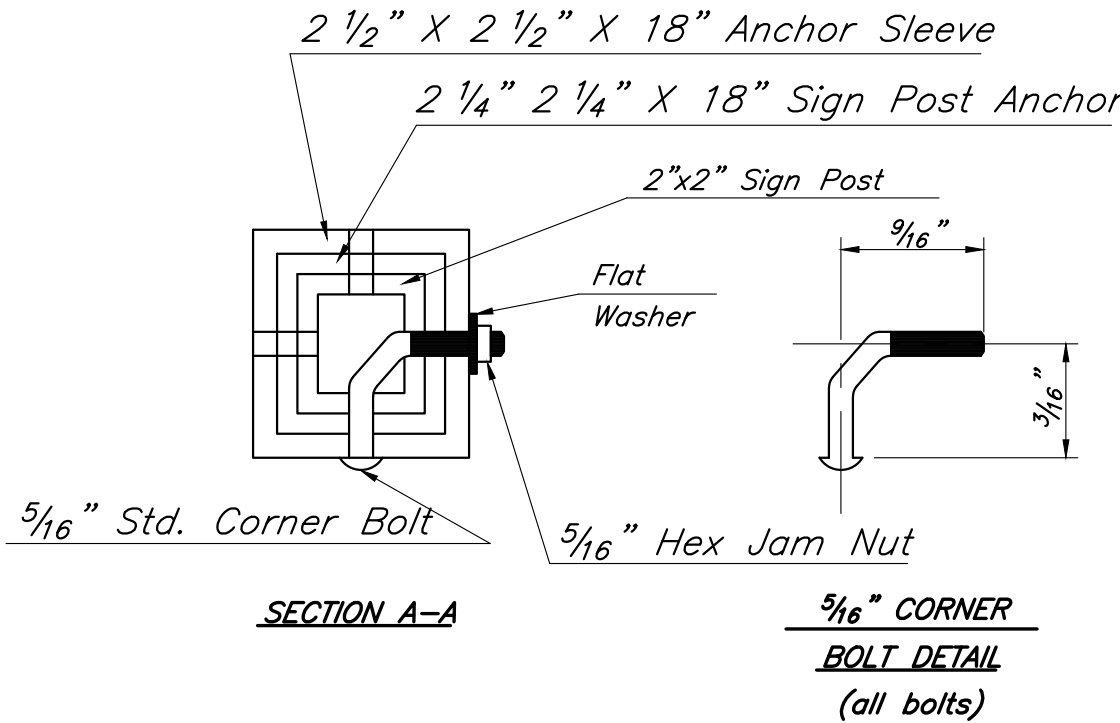
Note:
In all installations the first hole above the finished grade level in all three units must be in line for insertion of the corner bolt.

All corner bolts and nuts for fastening the signs and sign post assembly shall comply the applicable ANSI standards and ASTM testing requirements and shall be subsidiary items.

All Components shall be galvanized.

Sign Notes:

1. All letter, number & symbol sizes, spacing & colors, and the sign colors shall conform to the current "Manual On Uniform Traffic Control Devices."
2. Sign blank material shall be as follows:
Signs 36"x36" or greater 0.100" thick
Guide Signs 0.125" thick
All other signs 0.080" thick
3. All sign mounting hardware shall be galvanized.
4. All sign faces shall be fabricated using ASTM Type III Prismatic reflective sheeting.

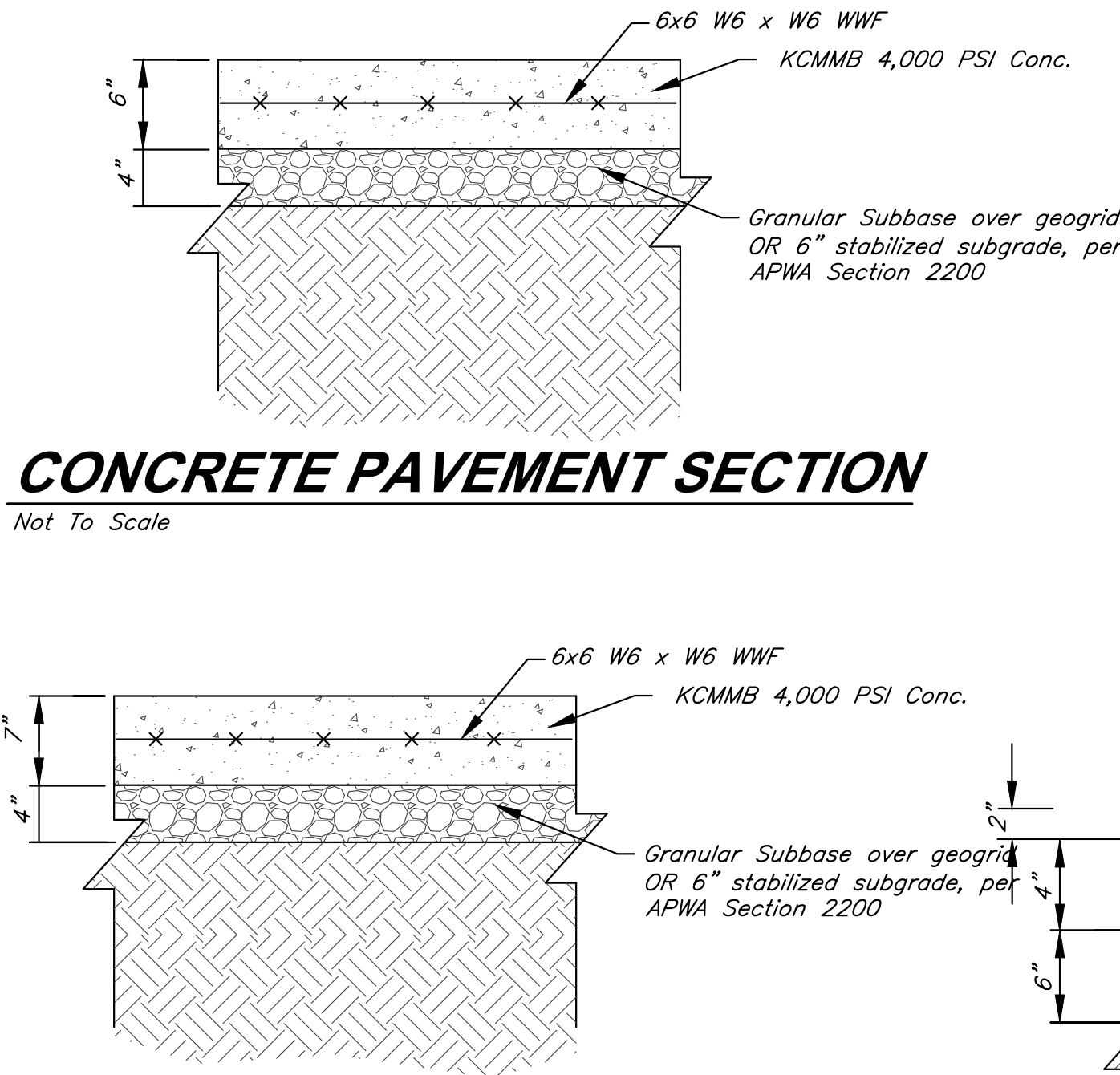


SECTION A-A

5/16" CORNER BOLT DETAIL (all bolts)

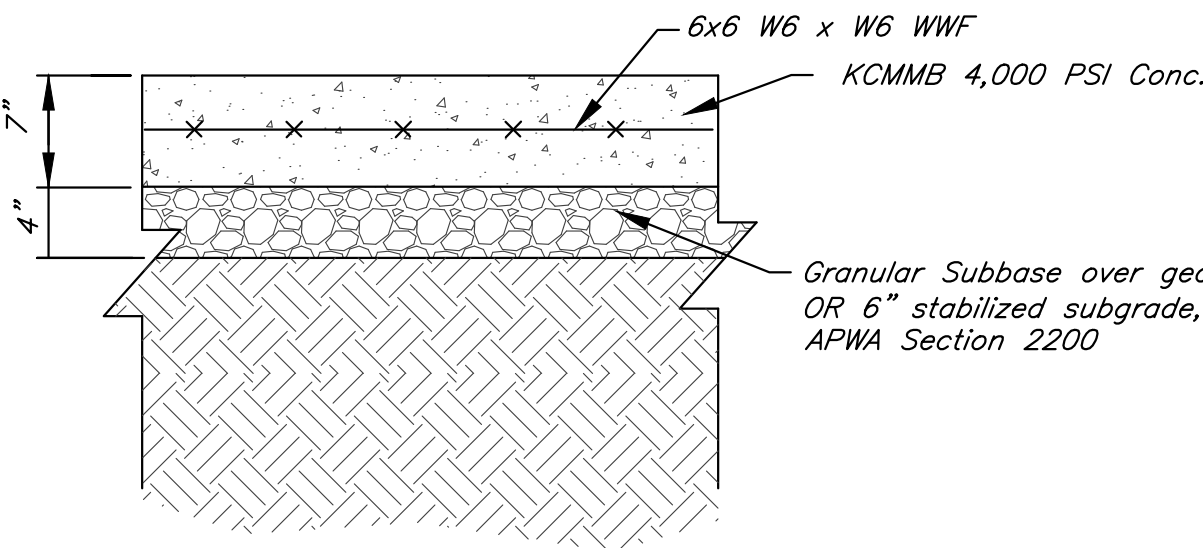
CONCRETE PAVEMENT SECTION

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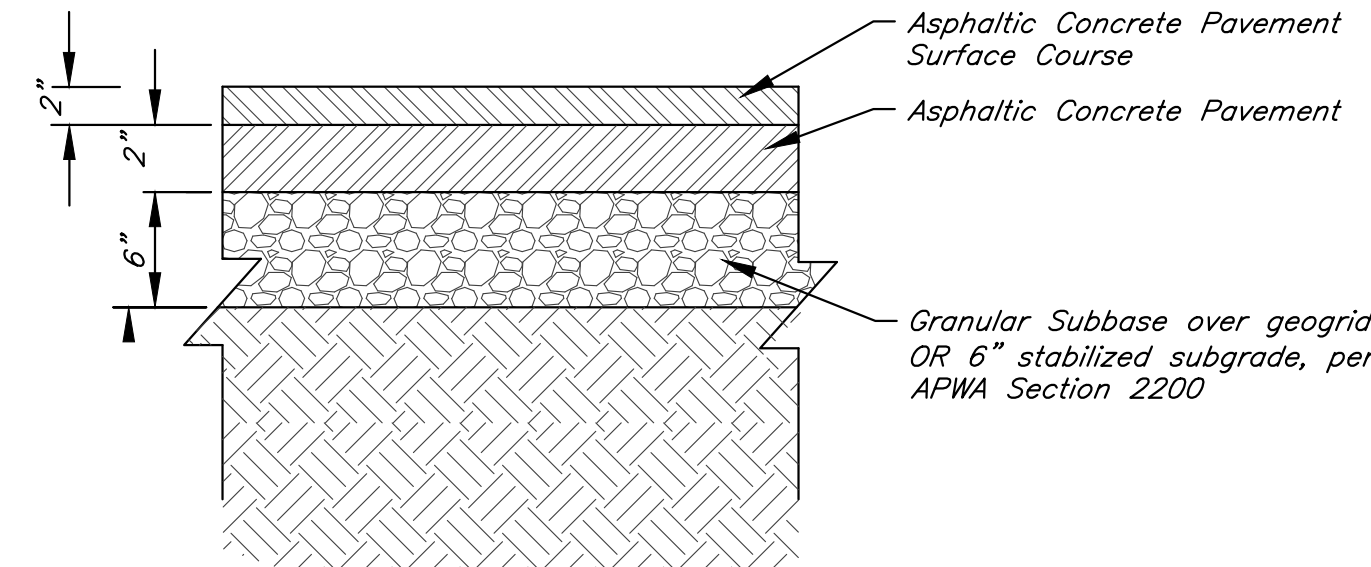
HEAVY DUTY CONCRETE PAVEMENT SECTION

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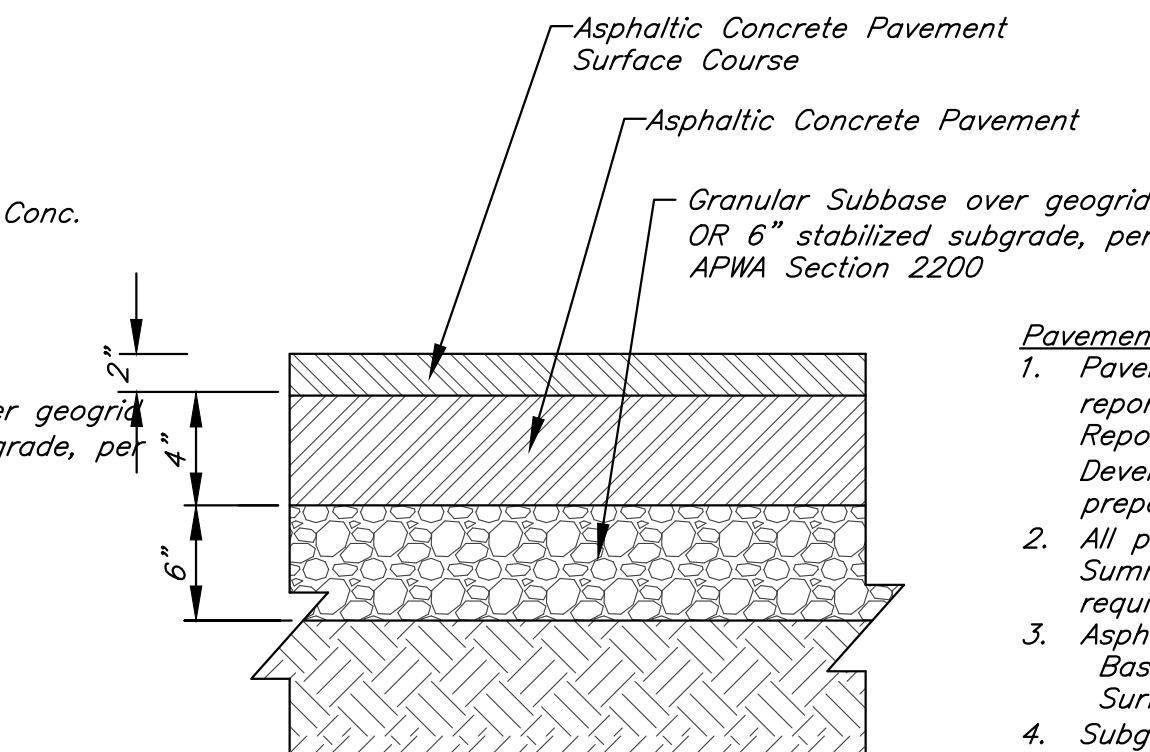
LIGHT DUTY ASPHALT PAVEMENT SECTION

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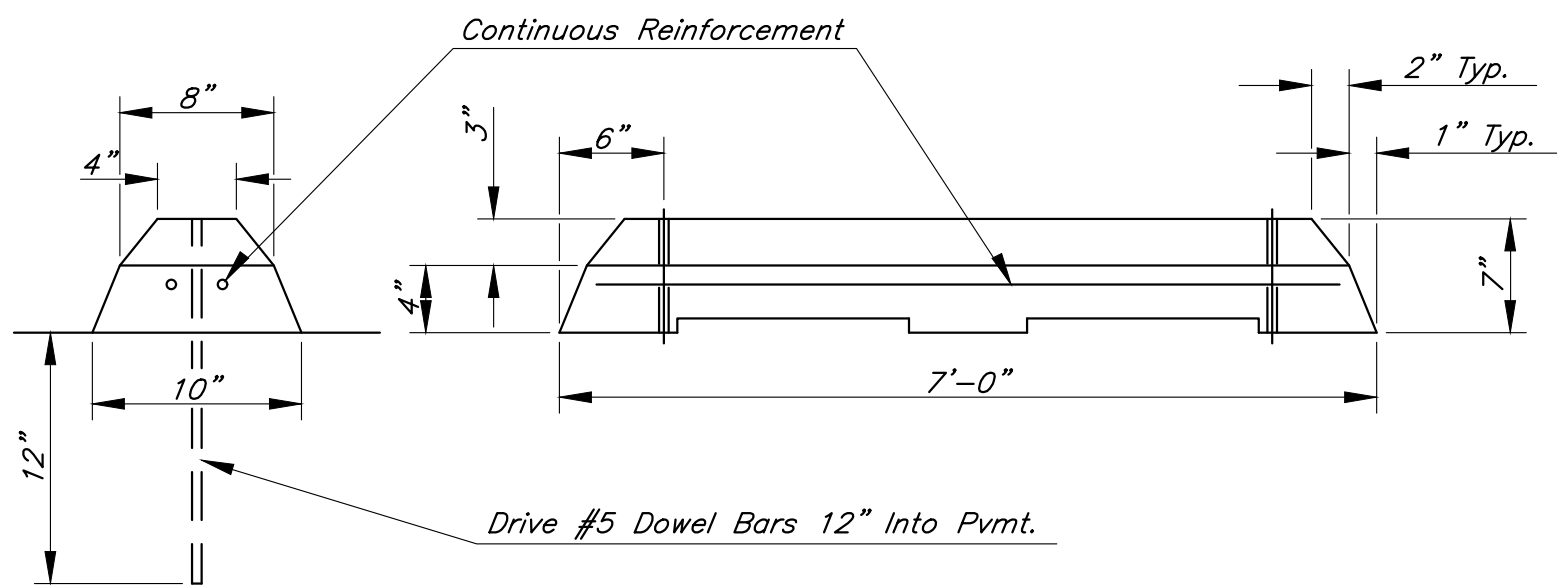
HEAVY DUTY ASPHALT PAVEMENT SECTION

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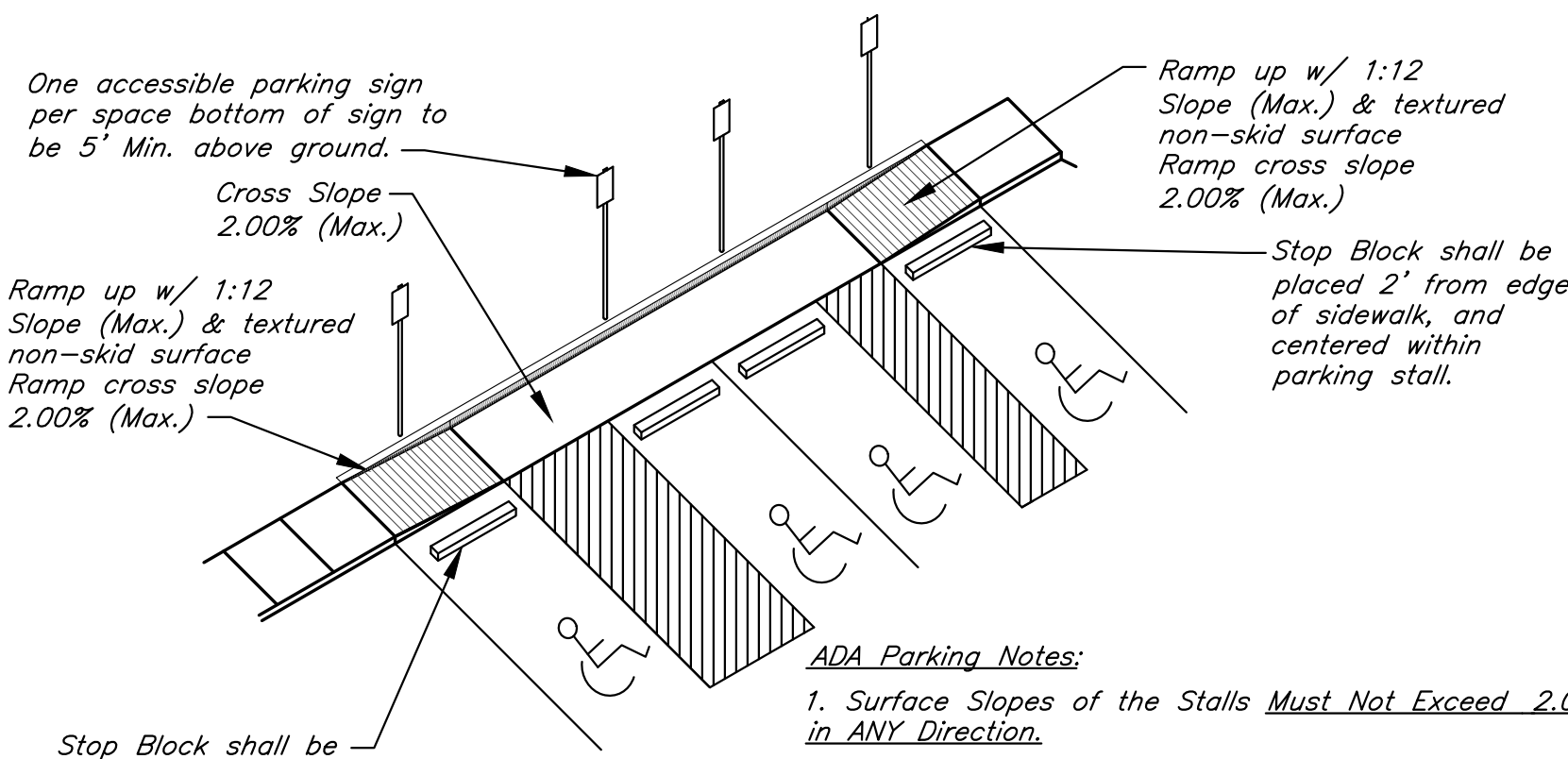
Pavement Notes:

1. Pavement sections from geotechnical report title "Geotechnical Engineering Report - Paragon Multi-Family Development", dated August 11, 2021, prepared by Terracon Consultants, Inc.
2. All pavement shall meet City of Lee's Summit UDO Section 8.620 requirements.
3. Asphalt mix shall be APWA Base: 1-01, 2-01 or 5-01 Surface: 2-01, 3-01 or 5-01
4. Subgrade stabilization shall be per Lee's Summit Standard Specifications - APWA Section 2200.



PRECAST CONCRETE STOP BLOCK

Not to Scale

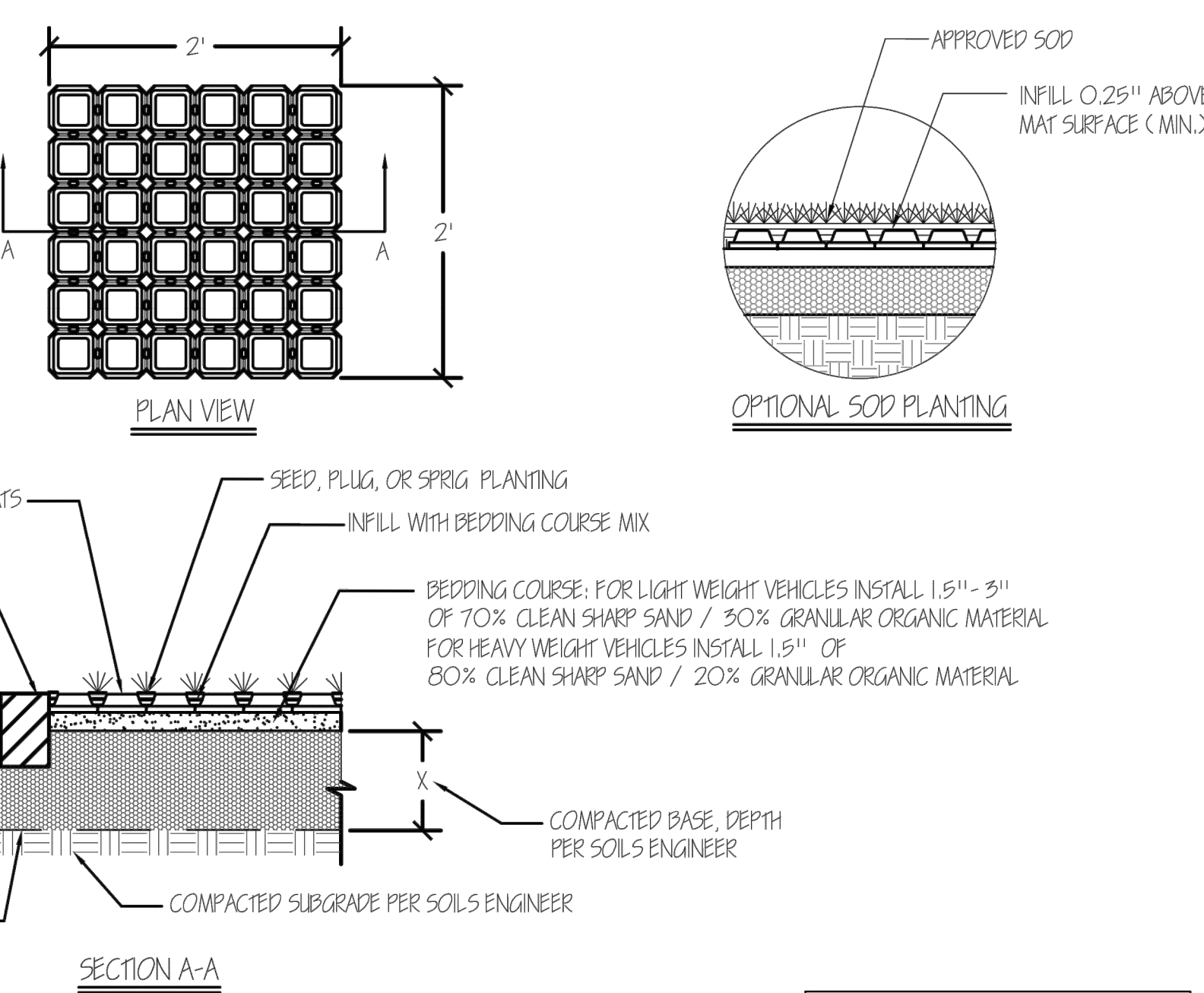


ADA Parking Notes:

1. Surface Slopes of the Stalls Must Not Exceed 2.00% in ANY Direction.
2. Van Accessible Spaces are denoted on the plan.
3. Parking Blocks shall be placed 24" from edge of sidewalk to center line of parking block.

ADA PARKING DETAIL

Not to Scale



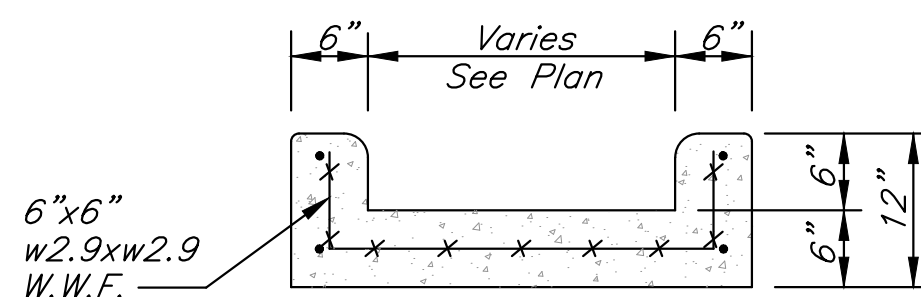
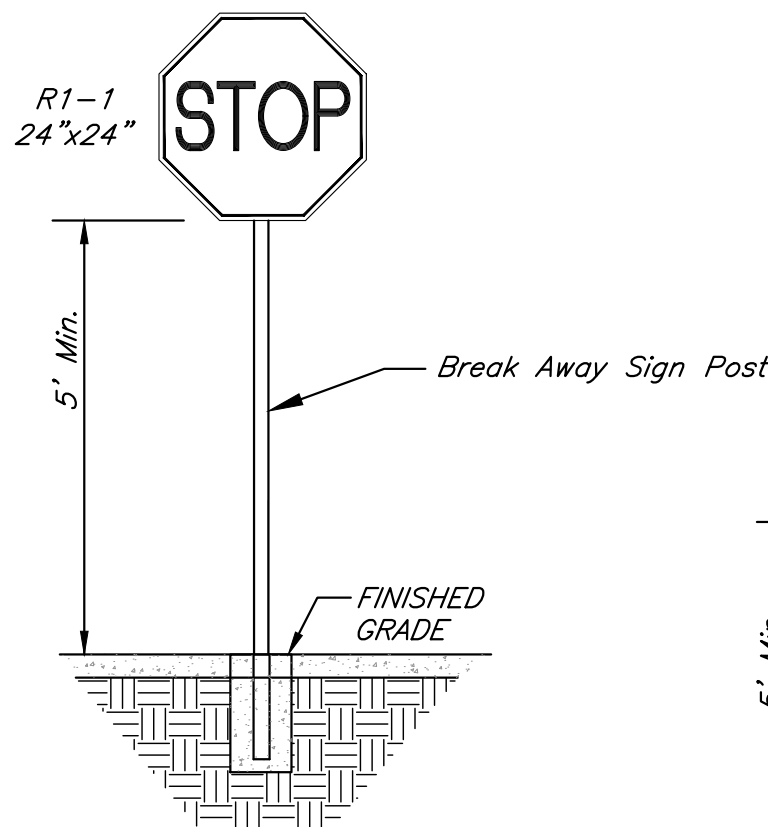
TYPICAL COMMERCIAL DRIVABLE GRASS DETAIL
SCALE: 1"=1'



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NOTES: FOR SCORING/MANAGEMENT APPLICATIONS INCLUDING STORAGE AND INFILTRATION, ALTERNATE INFILLS, BASE MATERIAL, AND DRAINAGE MAY BE REQUIRED

STOP SIGN DETAIL

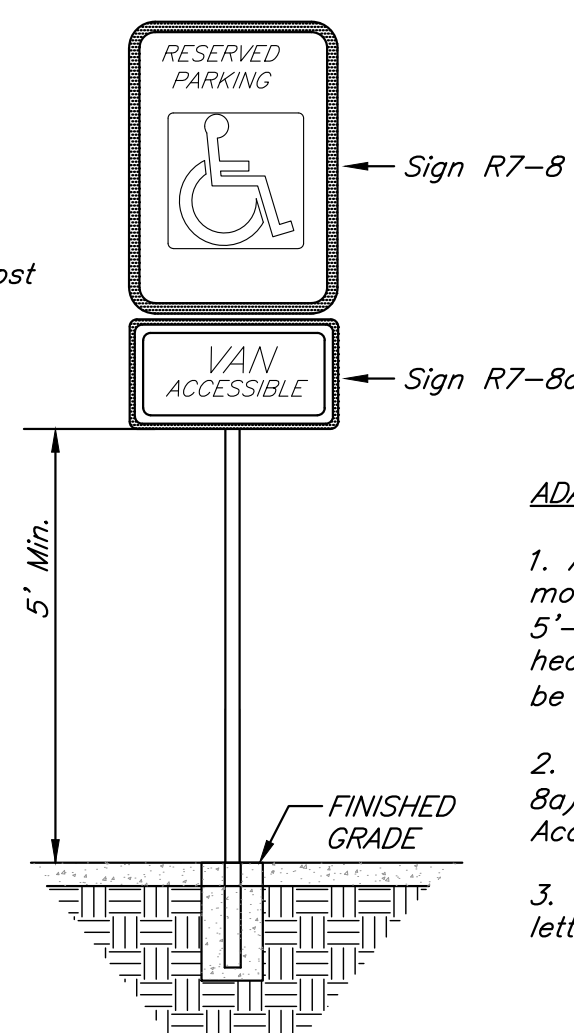
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Section

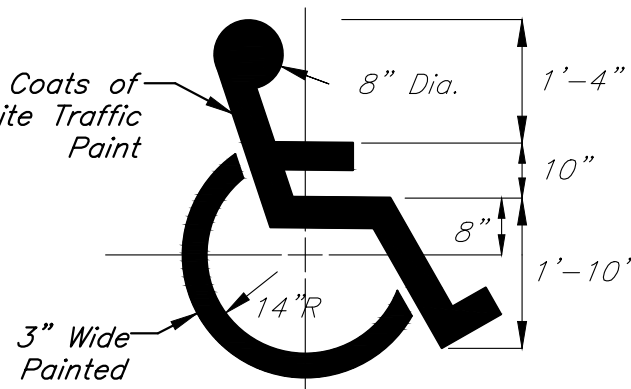
CONCRETE FLUME

Not To Scale



TYPICAL ACCESSIBLE SIGNAGE

Not to Scale



ACCESSIBLE PARKING SYMBOL DETAIL

Not to Scale

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

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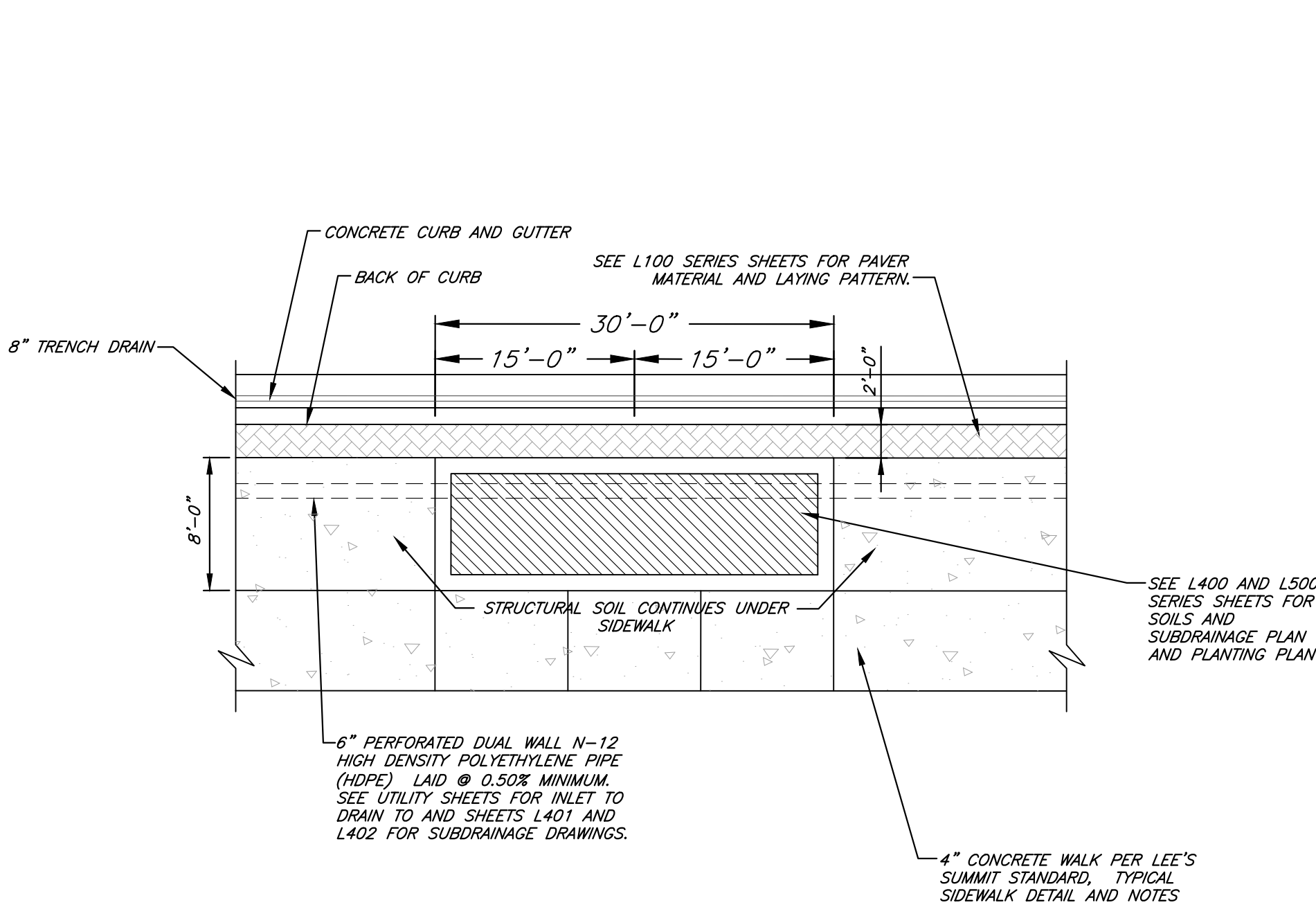
Construction Details

JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

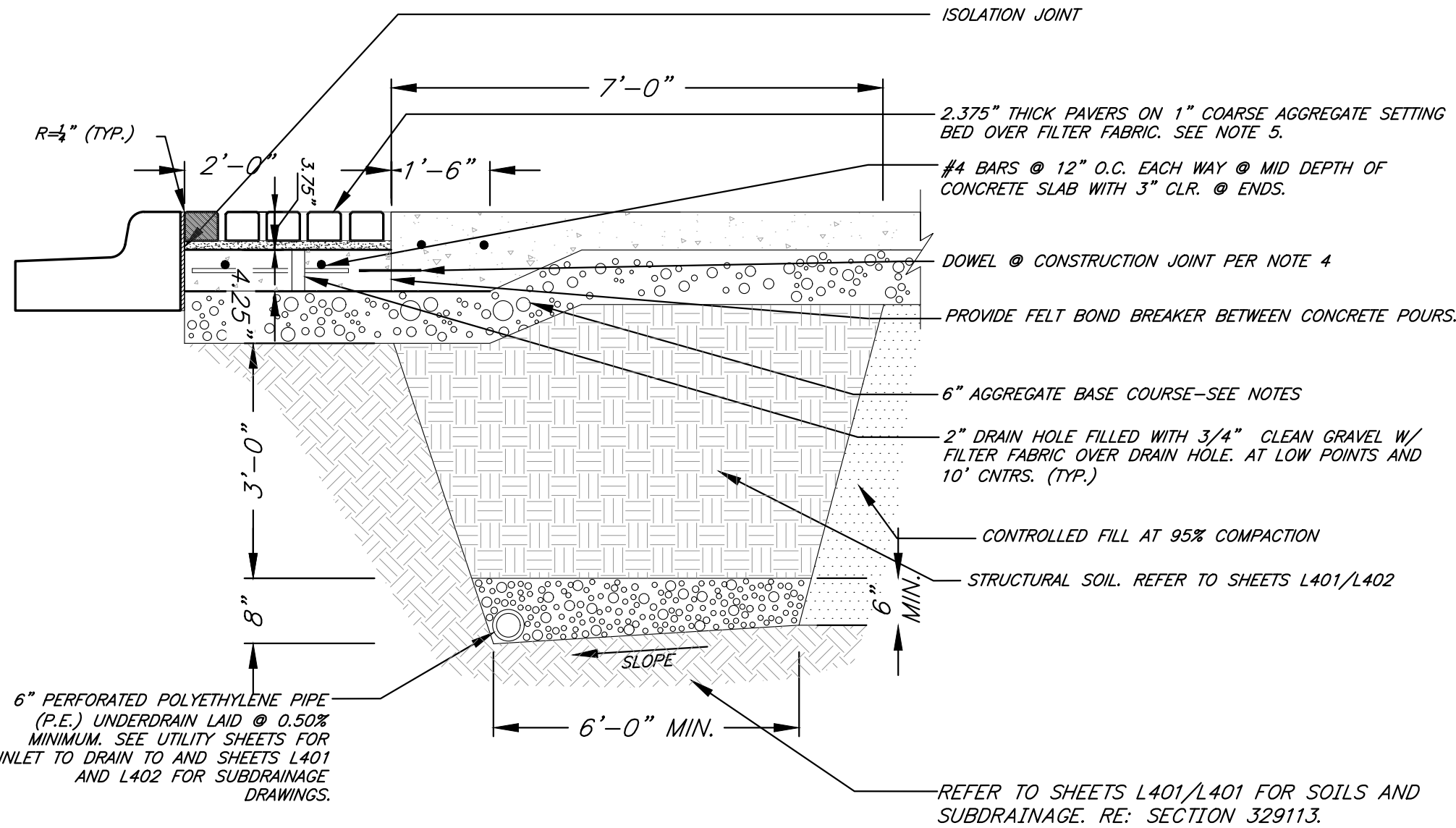
C017

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RAISED PLANTER PLAN

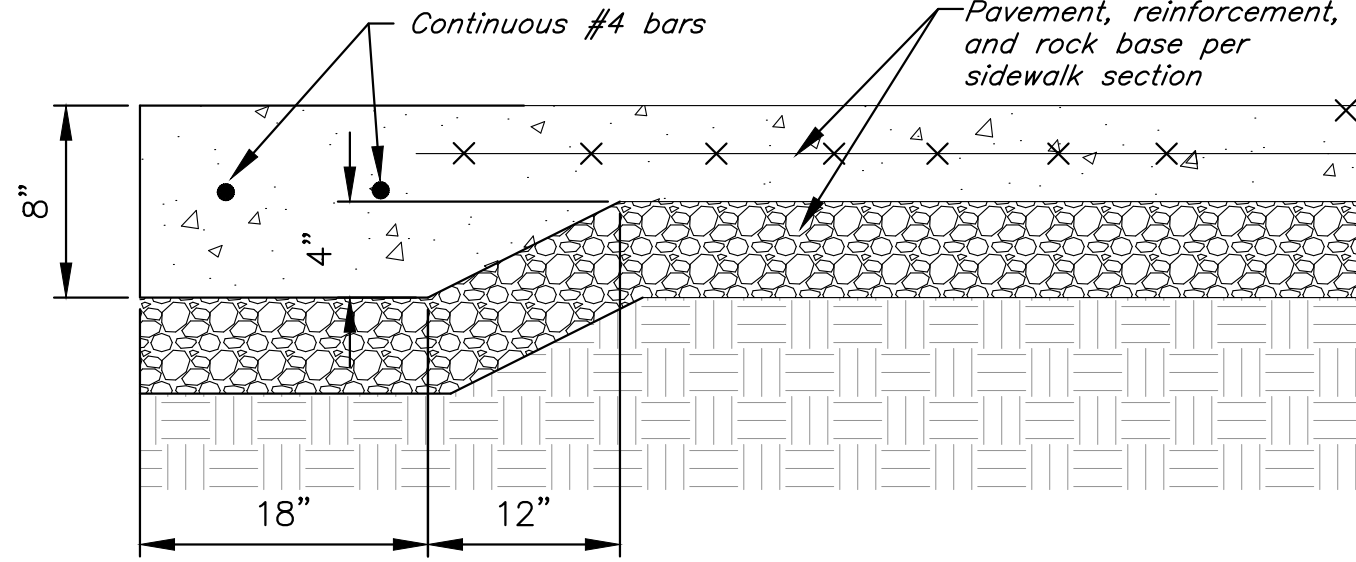
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- NOTES:
1. ALL CONCRETE SHALL BE KCMMB-4K.
 2. LEE'S SUMMIT STANDARD TYPE 1 JOINTS SHALL BE PLACED AS SHOWN ON PLANS.
 3. AGGREGATE BASE COURSE SHALL BE 97% COMPACTED AB-3 OR Limestone SCREENINGS WITH A WATER CONTENT BETWEEN -2 AND +1 PERCENTAGE POINTS OF THE OPTIMUM WATER CONTENT.
 4. AT CONSTRUCTION JOINTS IN CONCRETE SLAB, INSTALL #5 X 12" LONG SMOOTH DOWELS @ 12" SPACING ALONG THE CONSTRUCTION JOINT. GREASE AND WRAP ONE END SIMILAR TO LEE'S SUMMIT STANDARD TYPE 2 JOINT. DOWEL INSTALLED ON EACH SIDE OF JOINT. (NO 1/2" PREMOLED NON-EXTRUDING FILLER.)
 5. PAVERS WILL BE SELECTED BY THE LANDSCAPE ARCHITECT. SEE L100 SERIES SHEETS FOR MATERIAL TYPE AND LAYING PATTERN.

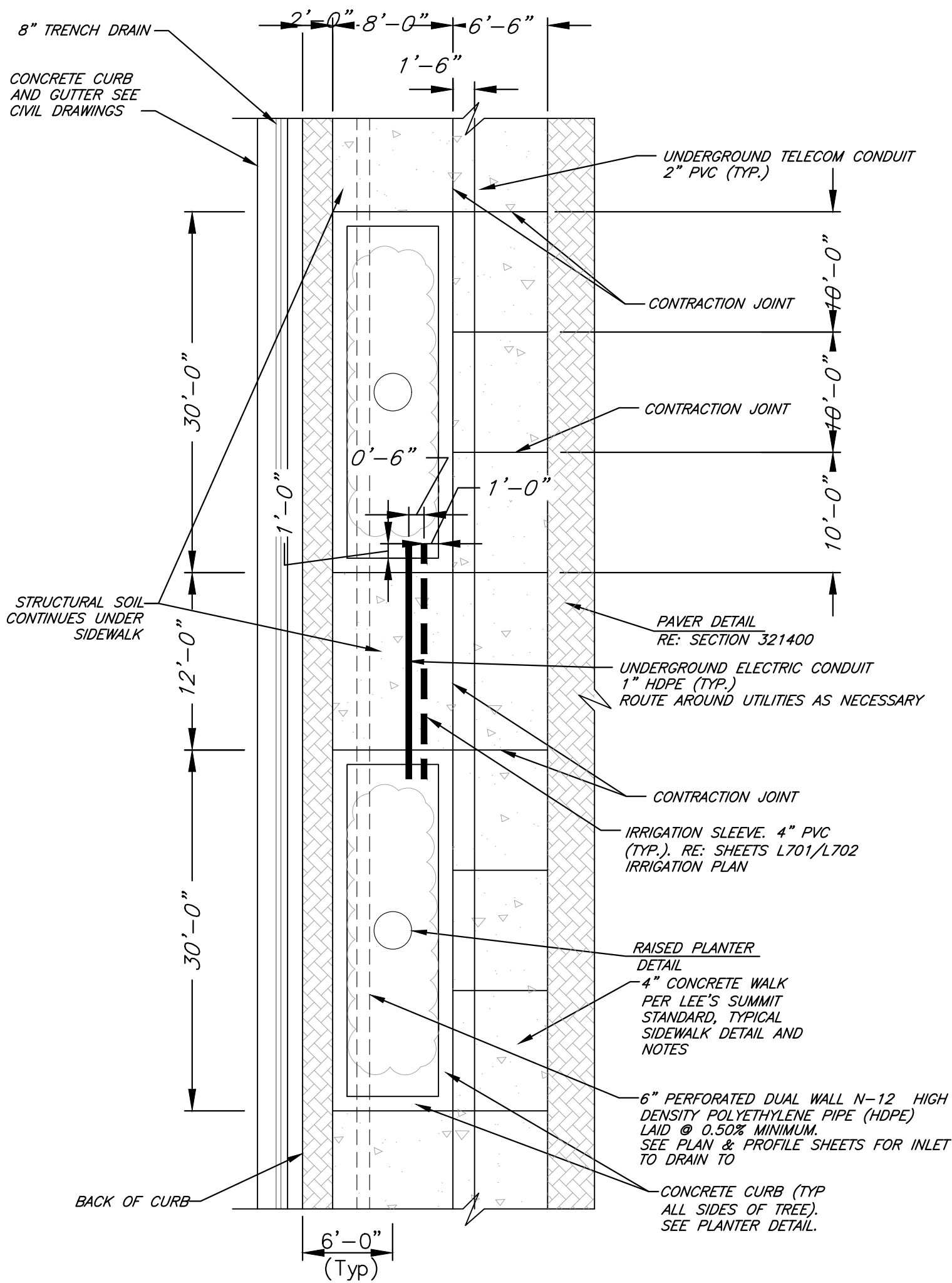
AMENITY ZONE PAVER DETAIL

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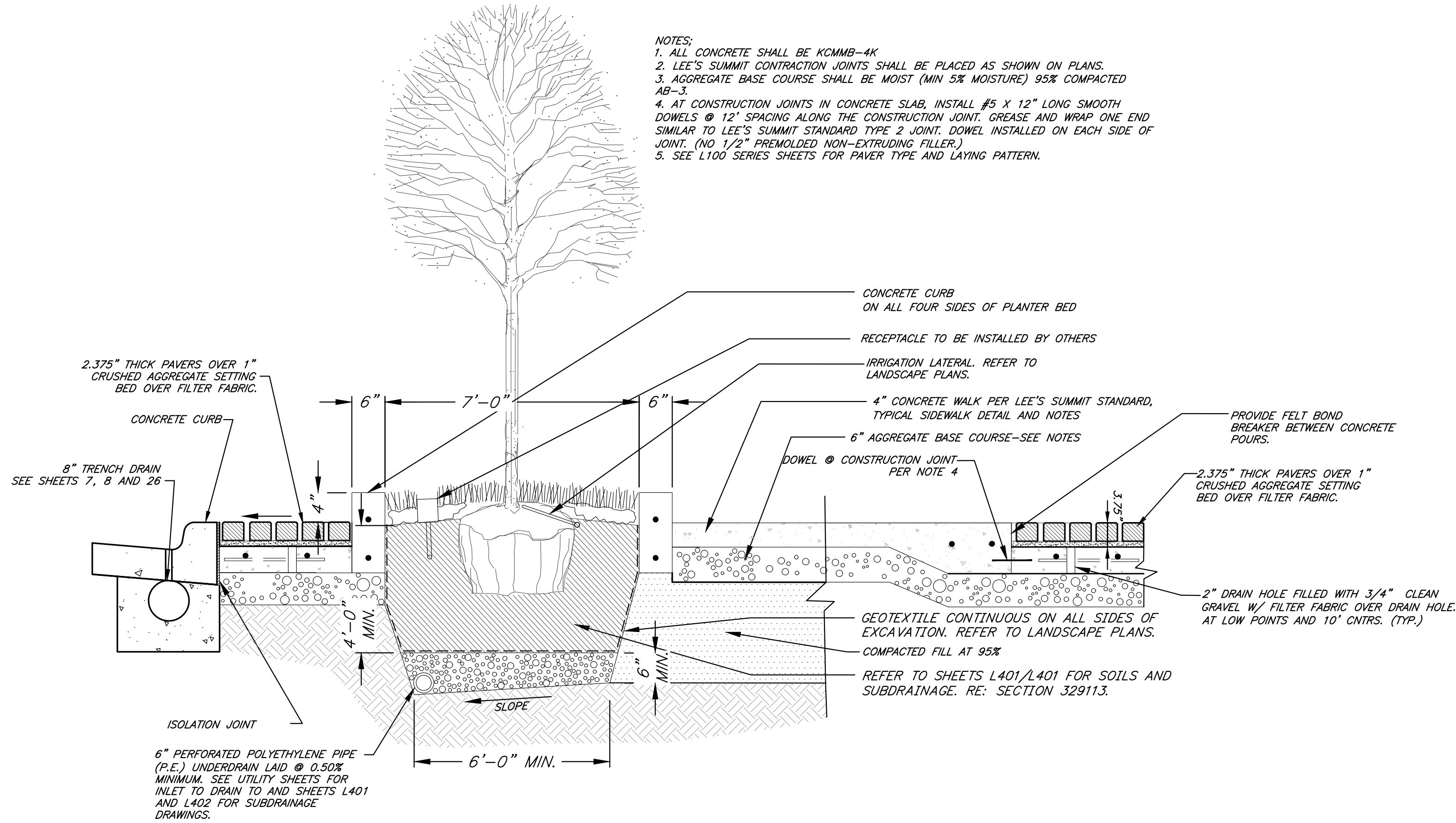
THICKENED EDGE DETAIL

Not to Scale



TYPICAL SIDEWALK LAYOUT

Not to Scale



TREE PLANTER DETAIL

Not to Scale

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PROJECT:

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3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

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Streetscape
Details









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DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

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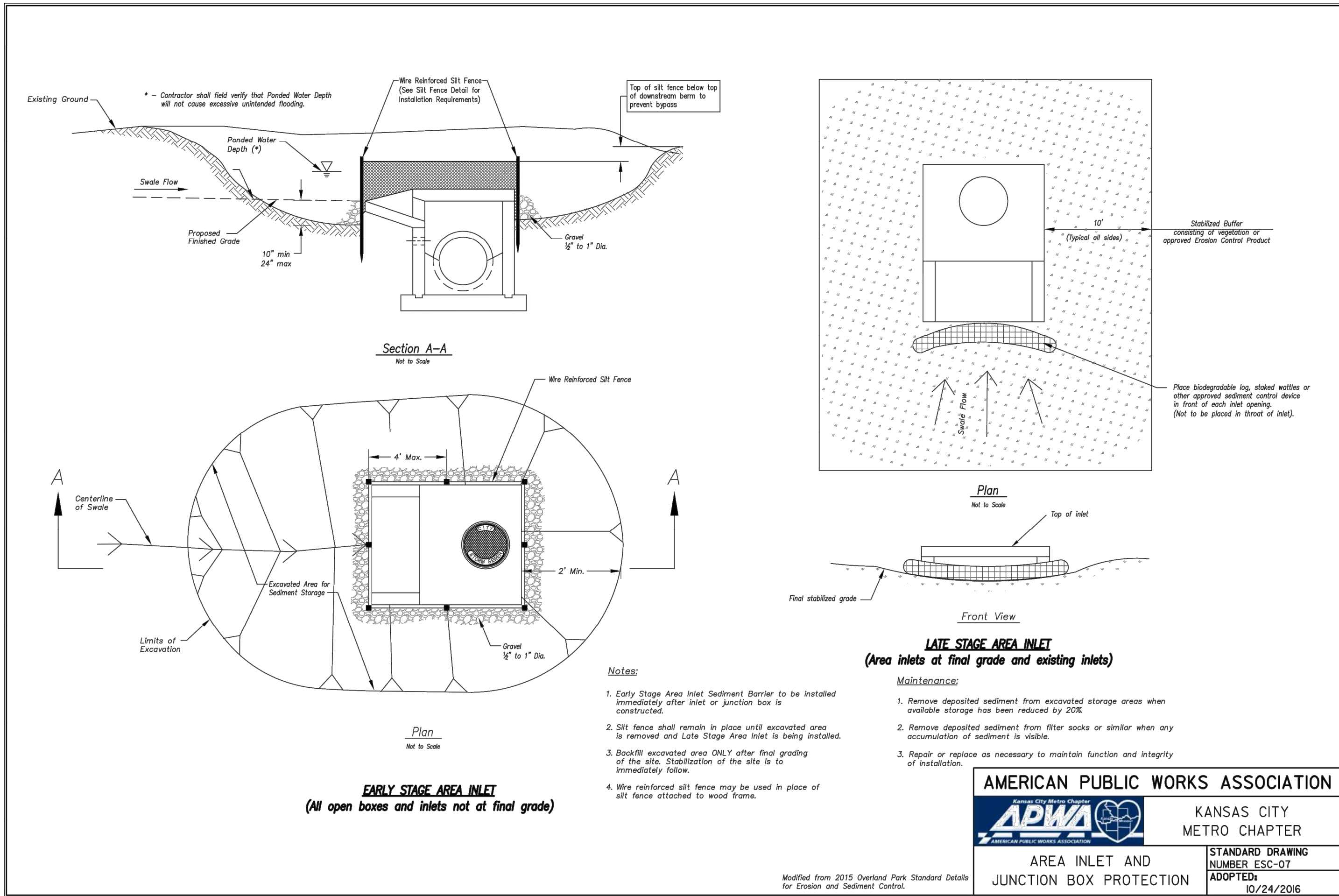
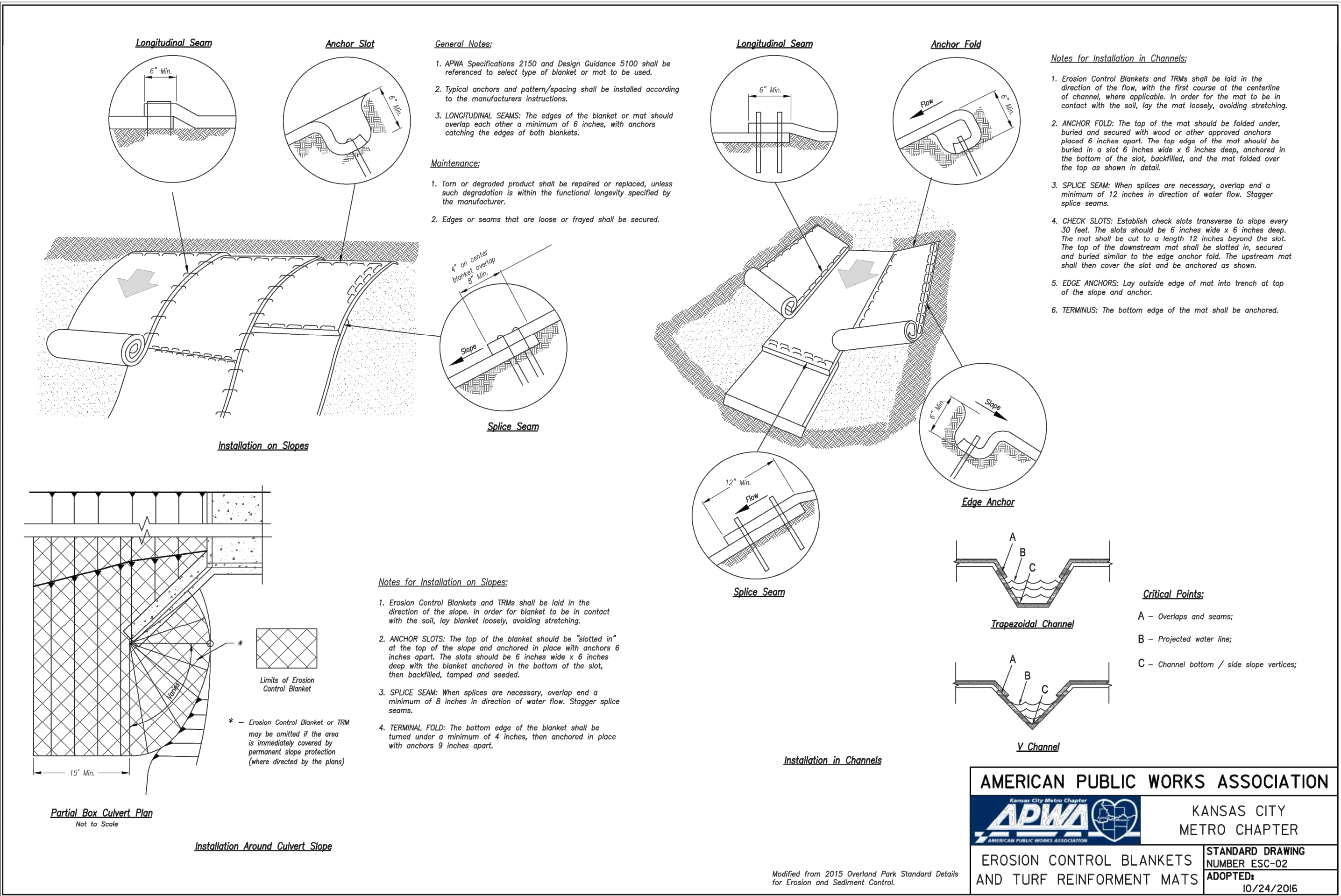
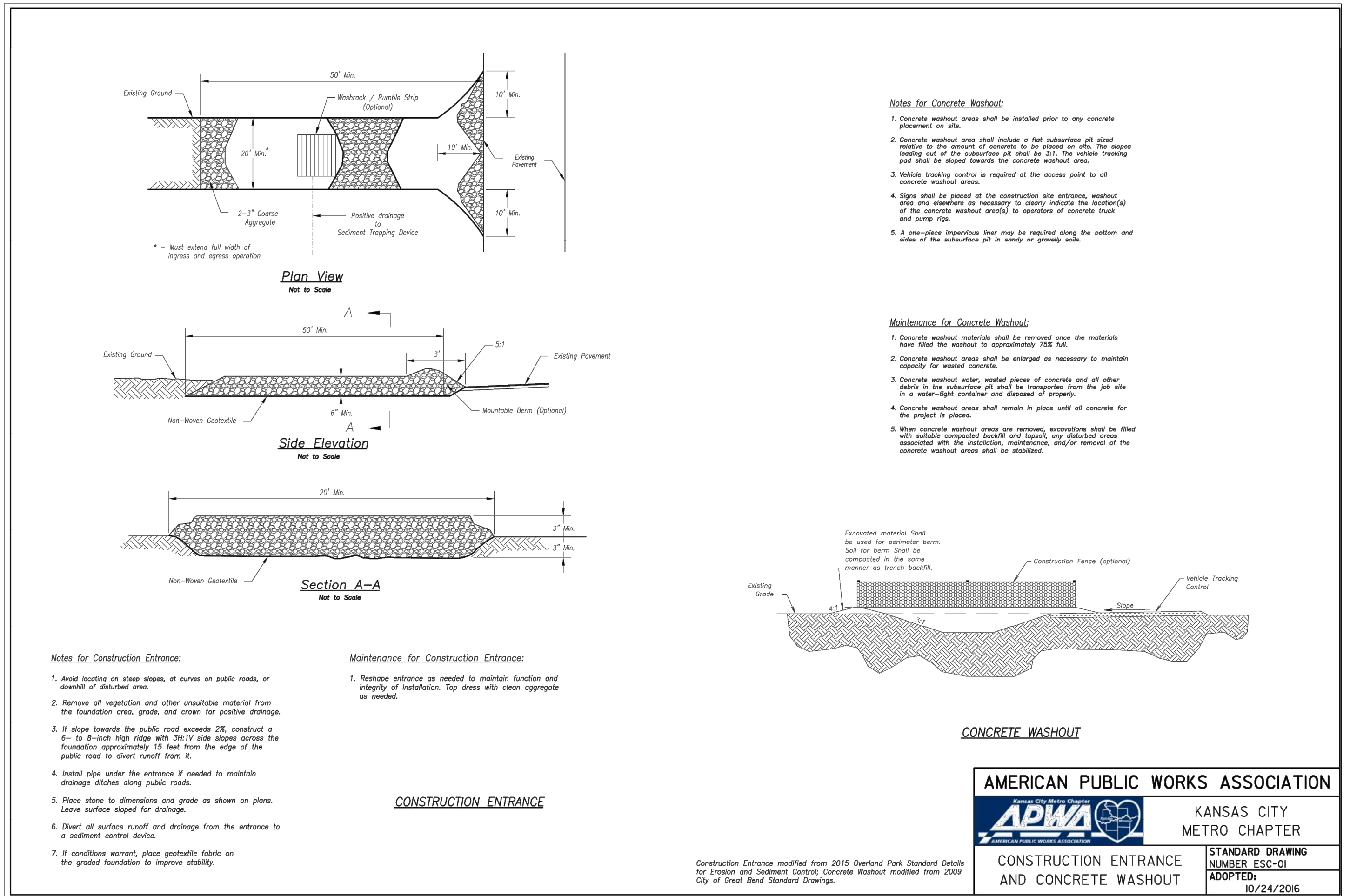
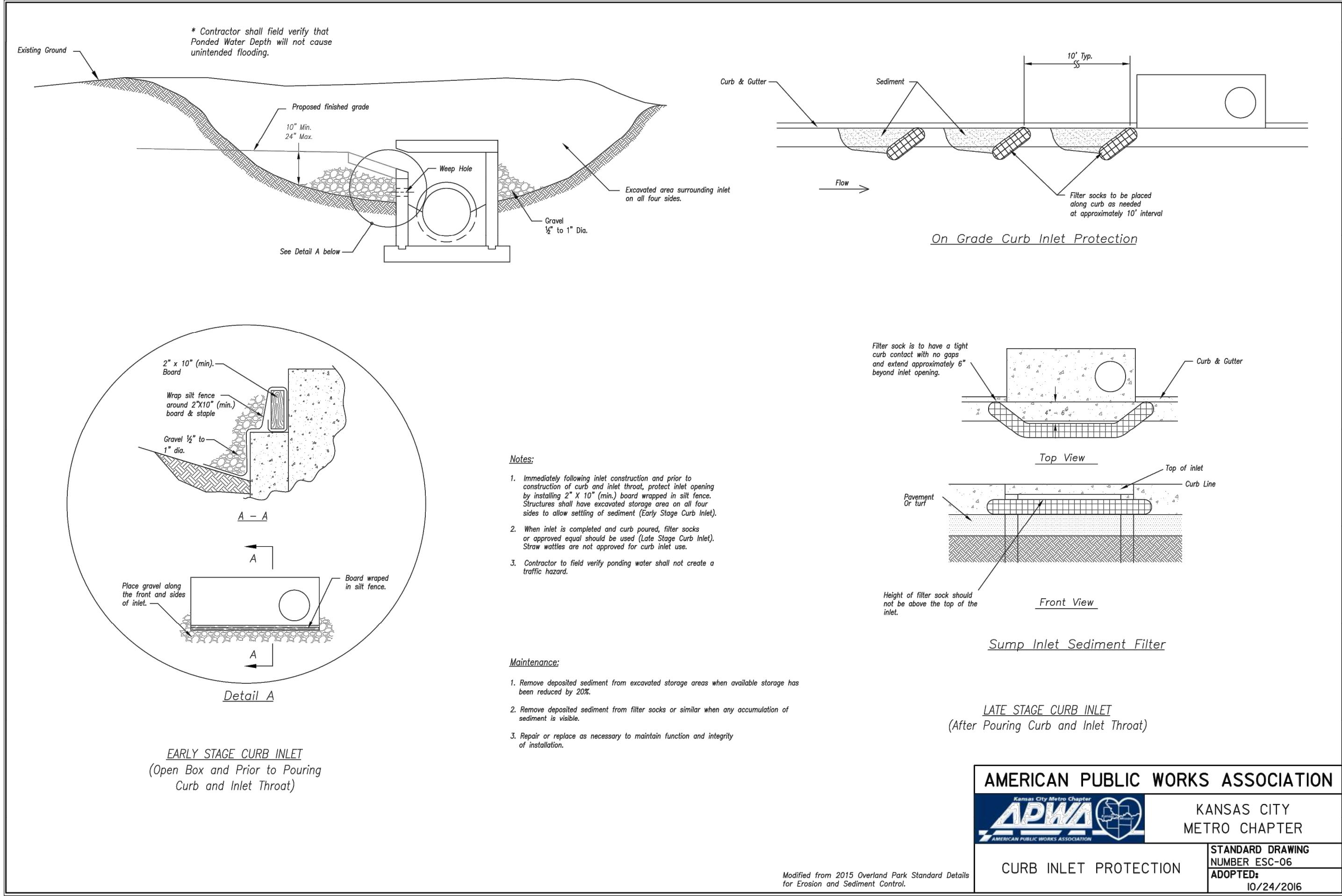
| Project Stage | Ref. No. | BMP Description | May Remove after Stage | Notes |
|--|----------|--------------------------------|------------------------|--|
| A. Place Erosion Control Prior to Land Disturbance | 1 | Const. Entrance & Staging Area | C | |
| | 2 | Construct Concrete Wash-out | C | |
| | 3 | Perimeter Silt Fence | C | |
| B. Final Grading, Paving, and Landscaping | 4 | Inlet Protection | C | |
| | 5 | Seed & Mulch or Blanket or Sod | | Erosion control blanket to be installed w/ seed. Check approved seeding dates and install temporary stabilization if out of seeding season. Install blanket according to manufacturer's instructions and stapling pattern. |

Legend

| | |
|---|--|
|  | <i>Proposed Contour</i> |
|  | <i>Existing Contour</i> |
|  | <i>Geotechnical Boring Location</i> |
|  | <i>Straw Wattles</i> |
|  | <i>Inlet Filter Sock</i> |
|  | <i>Grading Limits</i> |
|  | <i>Sediment Fence</i> |
|  | <i>Exist. Sediment Fence (to be maintained on perimeter)</i> |

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

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PROJECT:

Paragon Star North Village

3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

Erosion Control Details

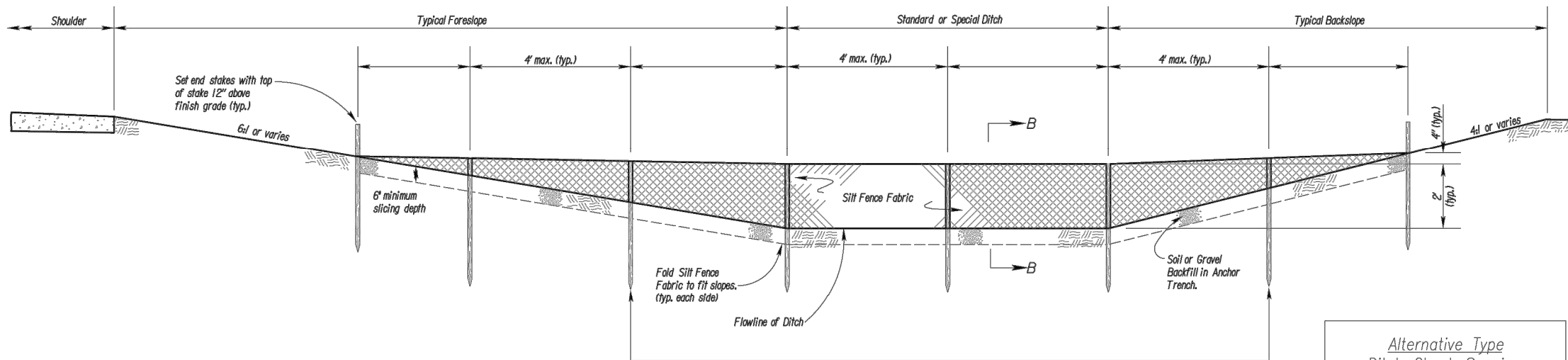
JOB NO: 1249 SCALE:
DATE: 01.28.2022 DRAWN BY: JRH

SHEET NO:

C022

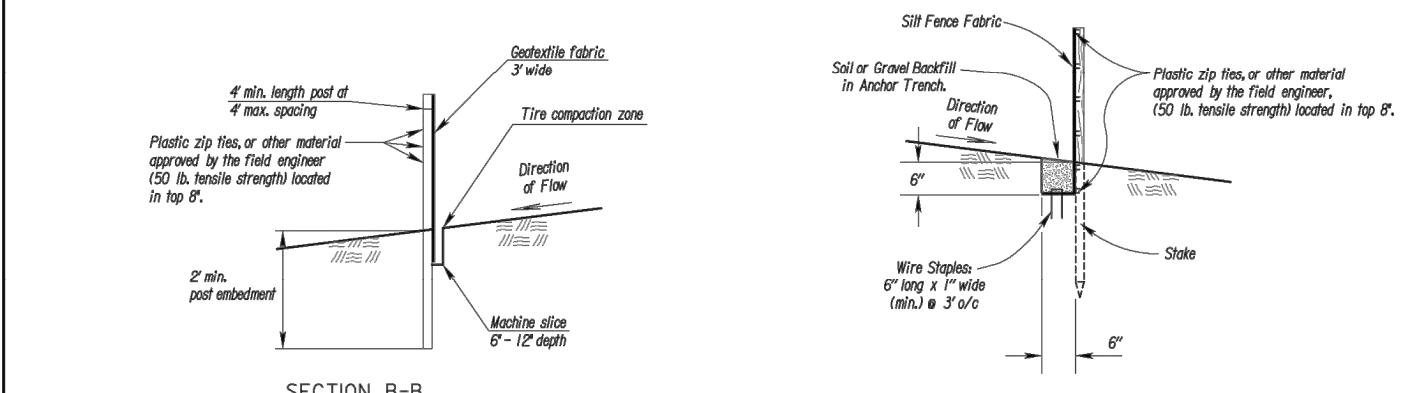
G:\127201 Civil 3D Production Drawings\LS Multifamily FDP\1272004600.dwg Layout: C023 Erosion Control Details --- Friday January 28, 2022, 10:41am --- Copyright 2022, George Buller Associates, Inc. THE PROFESSIONAL WHOSE SEAL SIGNATURE AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE. ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INTENDING TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS, IS RESERVED TO THE UNDERSIGNED PROFESSIONAL.

- Notes for Silt Fence Ditch Checks:
- Stakes shall be 4" (min.) long and one of the following materials:
 - Harwood - 1 3/4" x 1 3/4";
 - Southern Pine (No. 2) - 2 3/4" x 2 3/4";
 - Steel U, T, L, or C Section - 35 lbs. per 1'-0";
 - Synthetic - same strength as wood stakes.
 - Cross pieces shall be of same material as stakes.
 - Attach fence fabric securely on 6" centers (max.).
 - Use of high flow material is acceptable.
 - Refer to plan sheets to estimate the length of silt fence required.
 - Use support fencing when tributary area is greater than 2.4 acres or when ditch gradient is greater than 2 percent.
 - Silt fence should be in to a 6" minimum depth.
 - Direction of flow in points shall be a minimum of 4" higher than the center.

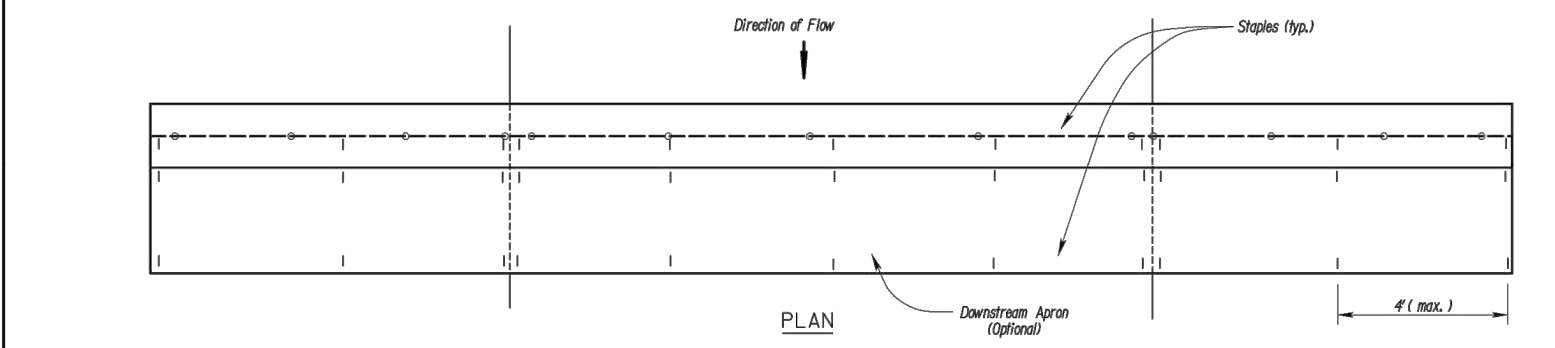


| Alternative Type Ditch Check Spacing | |
|--------------------------------------|-------------------------|
| Ditch Centerline Slope (%) | Spacing Interval (Feet) |
| 1.0 | 200 |
| 2.0 | 100 |
| 3.0 | 65 |
| 4.0 | 50 |
| 5.0 | 40 |
| 6.0 | 33 |

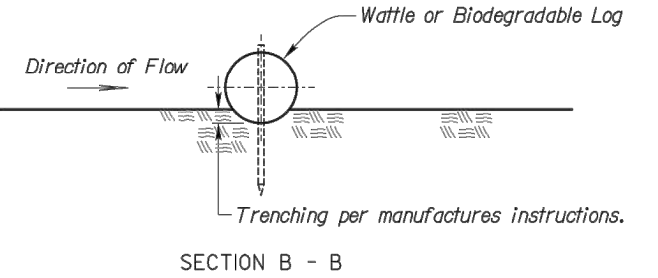
Note: Use this spacing for all except Rock Ditch Checks.



SILT FENCE DITCH CHECK
NO SCALE



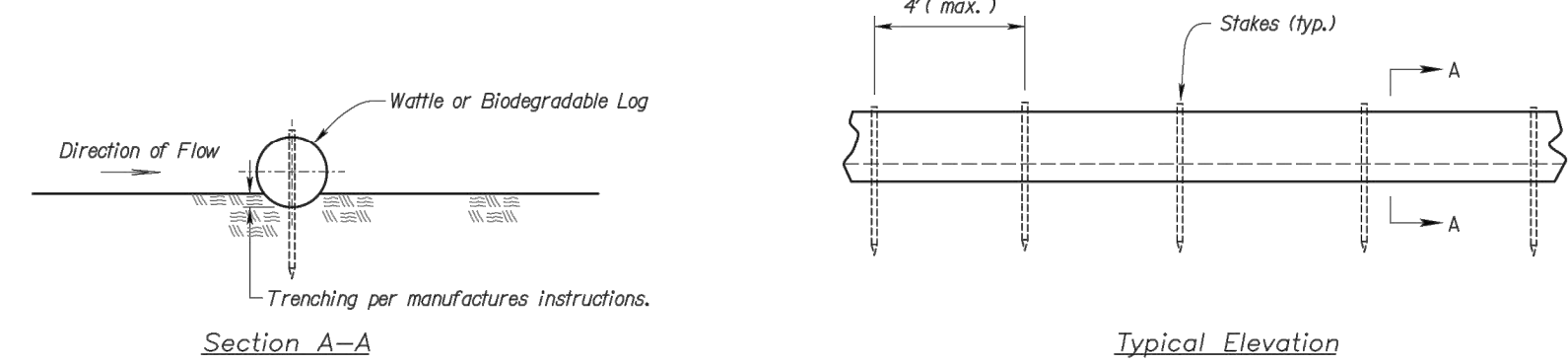
- Notes for Wattles and Biodegradable Log Ditch Checks:
- Use as many biodegradable log sections as necessary to ensure water does not flow around end of ditch check.
 - Overlap sections a minimum of 18"
 - Stakes shall be per manufacturer's instructions. Length of stakes shall be a minimum of 2 times the diameter of the log or 24" minimum.
 - Use Erosion Control (Class 1) (Type G) as the downstream apron when directed by the Engineer.
 - Use 9" diameter logs when used with Erosion Control (Class 2) (Any Type) channel lining. Smaller diameter logs may be used with Erosion Control (Class 2) (Any Type) channel lining as directed by the Engineer.



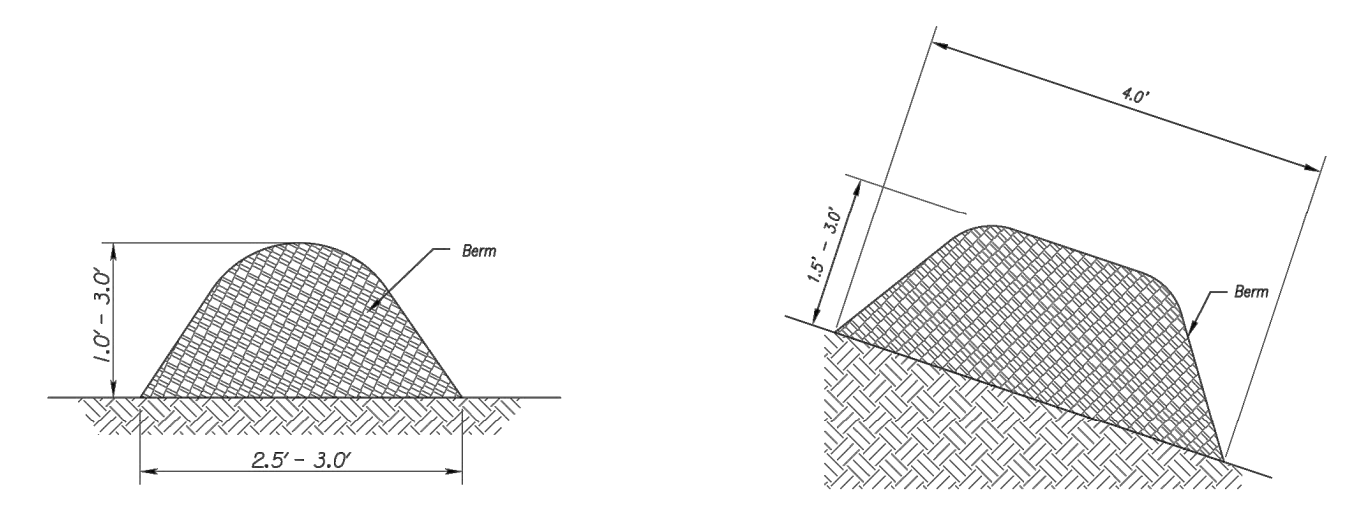
AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER

SILT FENCE AND WATTLE/BIODEGRADABLE LOG DITCH CHECKS

STANDARD DRAWING NUMBER ESC-09 ADOPTED: 10/24/2016



WATTLES AND BIODEGRADABLE LOG



MULCH OR COMPOST FILTER BERMS

- Notes for Wattles and Biodegradable Log Slope Protection:
- The Slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
 - Install wattles and biodegradable logs per manufacturer's instructions.
 - Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

- Notes for Mulch and Compost Filter Berm:
- The sediment control berm shall be placed uncompacted in a windrow at locations shown on the plans or as directed by the engineer.
 - Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
 - If berm is to be left as permanent or part of the natural landscape, the compost berm may be needed during application for permanent vegetation.
 - Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
 - Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, tub grinder or other approved method. Mulch sizing varies with a maximum width of 2" and a maximum length of 10".

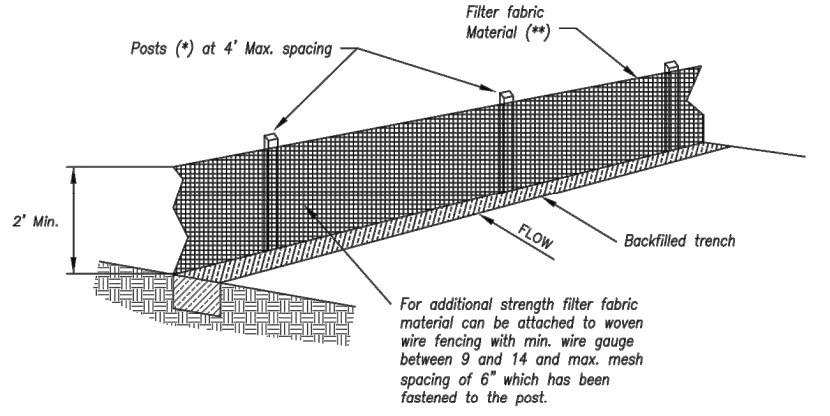
- Maintenance for Mulch and Compost Filter Berm:
- Berm shall be reshaped and material added as necessary to maintain function and dimensions.
 - Breaches in the berm shall be repaired promptly.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER

WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM

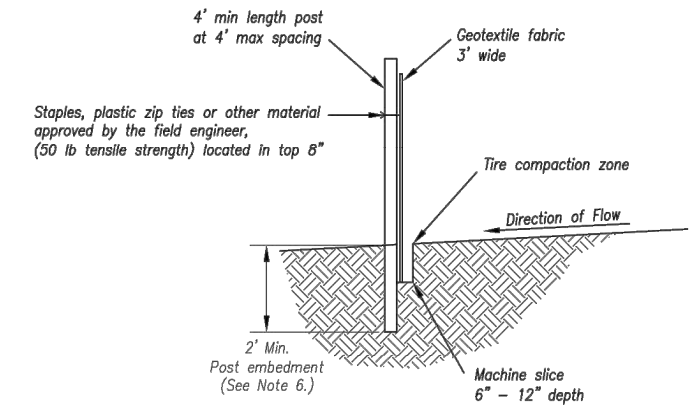
STANDARD DRAWING NUMBER ESC-04 ADOPTED: 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



- (*) POSTS
- MIN. LENGTH 4'
 - HARDWOOD 1 3/4" x 1 3/4"
 - NO.2 SOUTHERN PINE 2 3/4" x 2 3/4"
 - STEEL 1.33 LB/FT
- (**) - Geotextile Fabric shall meet the requirements of ASTM D 2088

SILT FENCE DETAILS
Not to Scale



- Notes:
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
 - Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 - Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
 - Attach fabric to upstream side of post.
 - Install posts a minimum of 2' into the ground.
 - Trenching will only be allowed for small or difficult installation, where staking machine cannot be reasonably used.

- Maintenance:
- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
 - Repair as necessary to maintain function and structure.

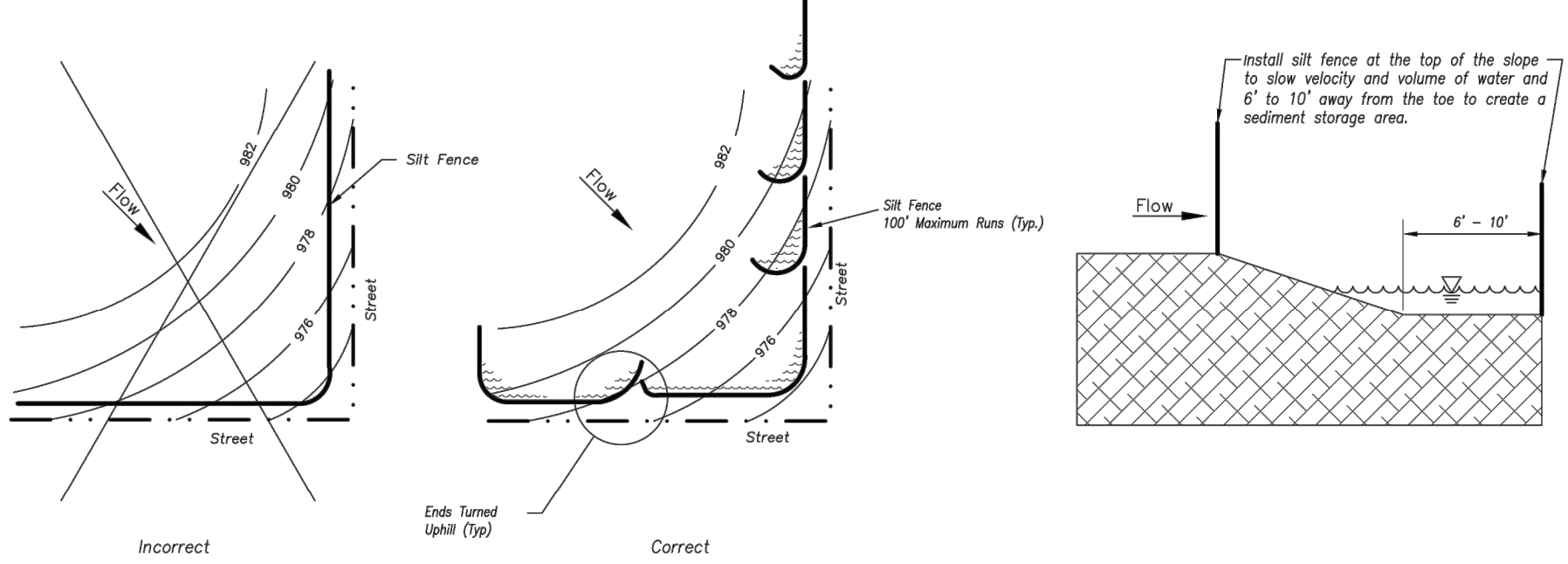
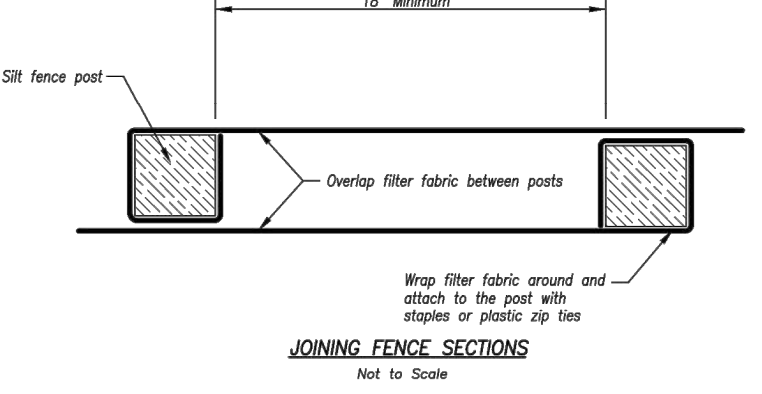


Figure A
SILT FENCE LAYOUT
Not to Scale



JOINING FENCE SECTIONS
Not to Scale

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER

SILT FENCE

STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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Final Development Plan

ISSUE:

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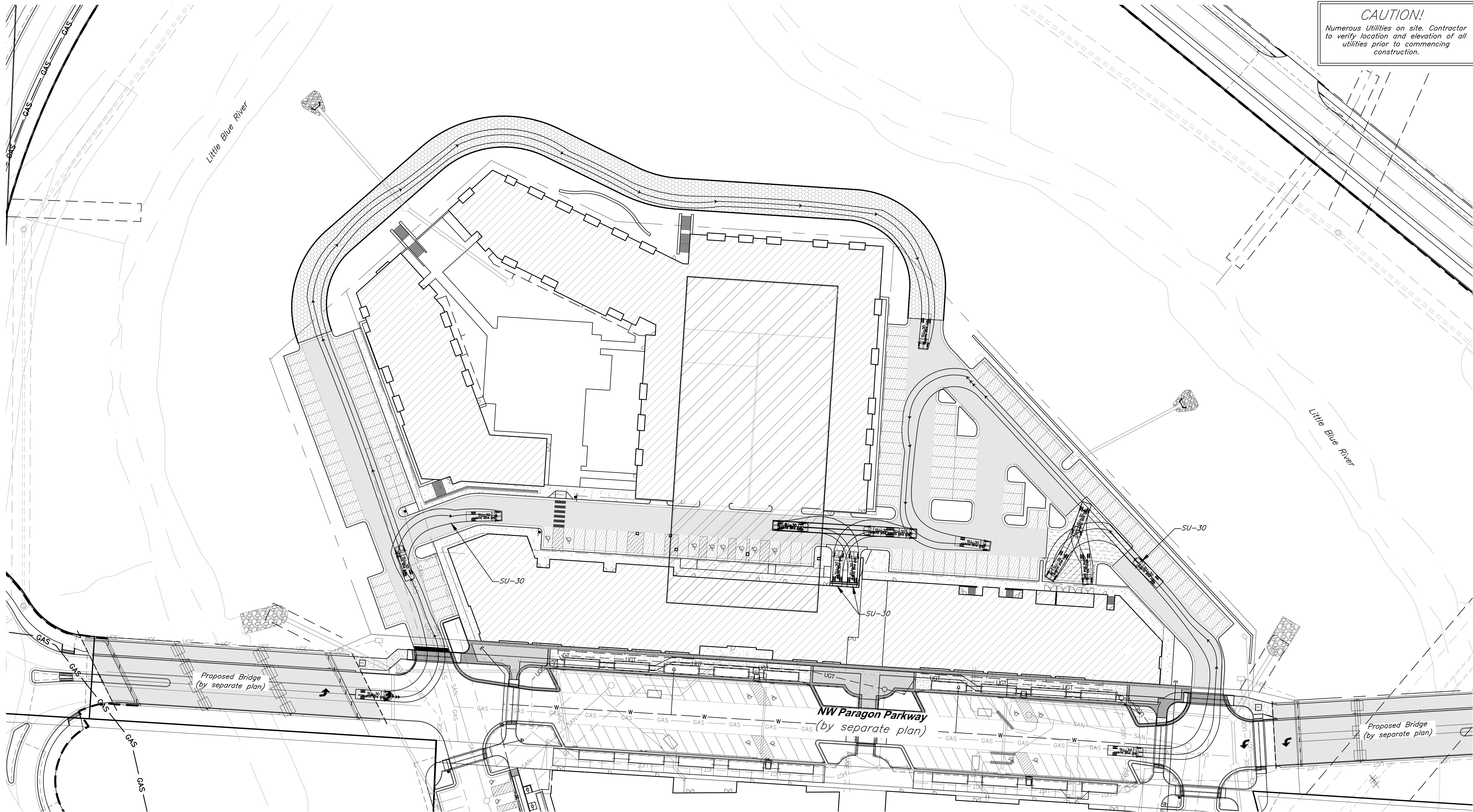
Erosion Control Details

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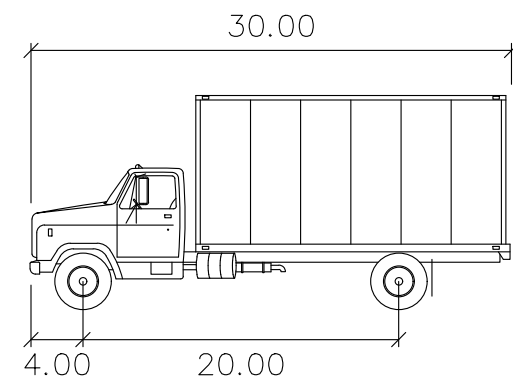
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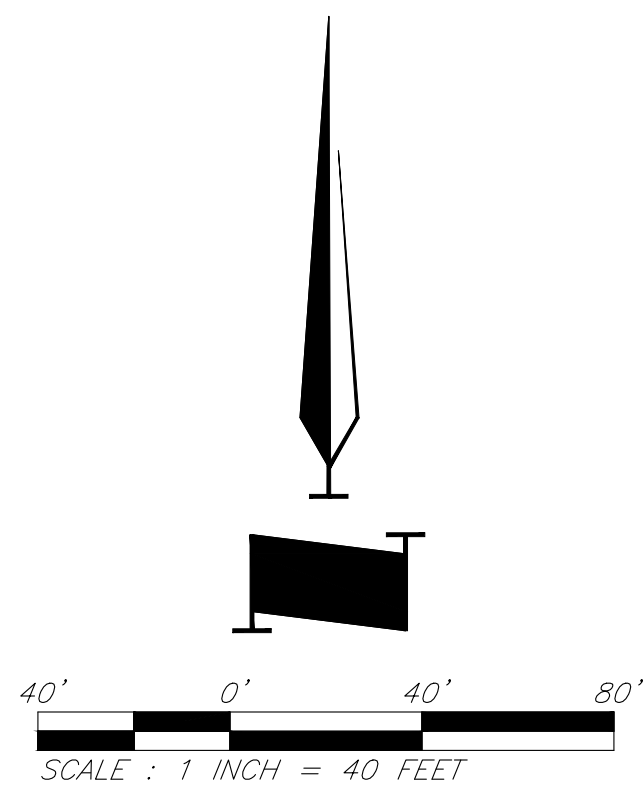
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CAUTION!
Numerous Utilities on site. Contractor
to verify location and elevation of all
utilities prior to commencing
construction.



Width : 8.00
Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 31.8



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**Turning
Movements**

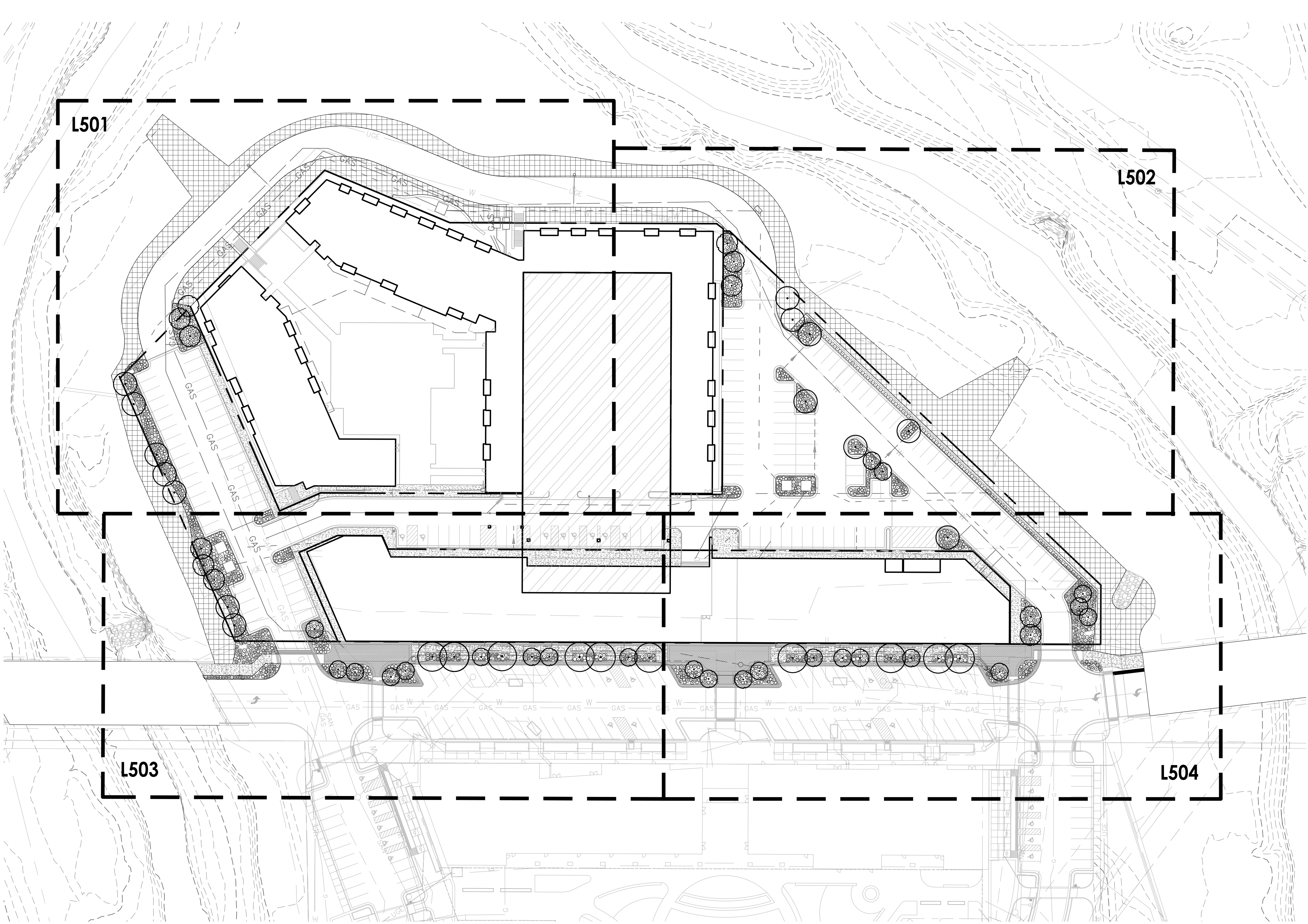
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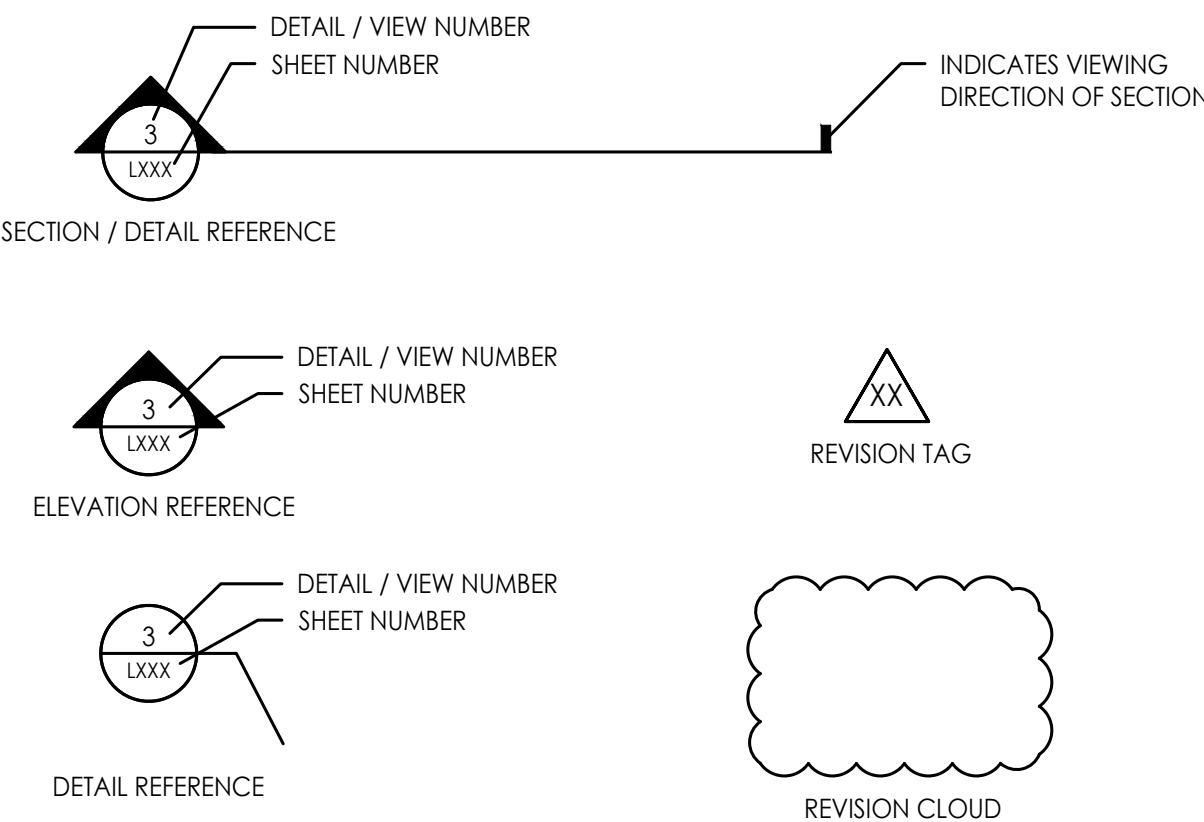
GENERAL NOTES

- ALL SITE AND UTILITY INFORMATION SHOWN IS BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. VERIFY ALL SITE CONDITIONS, ELEVATIONS, UTILITY LOCATIONS AND DIMENSIONS INCLUDING NEW IMPROVEMENTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
- ALL DIMENSIONS SHOWN ARE REPRESENTED USING U.S. SURVEY DIMENSION STANDARDS.

COMMON ABBREVIATIONS

| | | | |
|--------|---------------------------|-------|--------------------------|
| APPROX | APPROXIMATE | MH | MANHOLE |
| ARCH | ARCHITECT | MIN | MINIMUM |
| AVG | AVERAGE | MISC | MISCELLANEOUS |
| B&B | BALLED AND BURLAPPED | N | NORTH |
| BC | BOTTOM OF CURB | NIC | NOT IN CONTRACT |
| BLDG | BUILDING | NO | NUMBER |
| BM | BENCHMARK | NOM | NOMINAL |
| BOC | BACK OF CURB | NTS | NOT TO SCALE |
| BW | BOTTOM OF WALL | OC | ON CENTER |
| CAL | CALIPER | OD | OUTSIDE DIAMETER |
| CB | CATCH BASIN | PC | POINT OF CURVATURE |
| CF | CUBIC FEET | PE | POLYURETHANE |
| CIP | CAST IN PLACE | PERF | PERFORATED |
| CL | CENTERLINE | PI | POINT OF INTERSECTION |
| CLR | CLEAR, CLEARANCE | PL | PROPERTY LINE |
| CJ | CONTROL JOINT | PT | POINT, POINT OF TANGENCY |
| CM | CENTIMETER | PVC | POLYVINYL CHLORIDE |
| CO | CLEAN OUT | QTY | QUANTITY |
| CONT | CONTINUOUS | R | RADIUS |
| CY | CUBIC YARD | RE | REFERENCE, REFER TO |
| DEG | DEGREE | REINF | REINFORCED |
| DEMO | DEMOLISH, DEMOLITION | REQ'D | REQUIRED |
| DIA | DIAMETER | REV | REVISION, REVISED |
| DIM | DIMENSION | ROW | RIGHT OF WAY |
| DTL | DETAIL | S | SOUTH |
| DWG | DRAWING | SAN | SANITARY |
| E | EAST | SEC | SECTION |
| EA | EACH | SF | SQUARE FOOT (FEET) |
| EJ | EXPANSION JOINT | SHT | SHEET |
| EL | ELEVATION | SIM | SIMILAR |
| ENG | ENGINEER | SPECS | SPECIFICATIONS |
| EQ | EQUAL | STM | STORM SEWER |
| EST | ESTIMATE | SY | SQUARE YARD |
| E.W. | EACH WAY | STA | STATION |
| EXIST | EXISTING | STD | STANDARD |
| EXP | EXPANSION, EXPOSED | SYM | SYMMETRICAL |
| FFE | FINISHED FLOOR ELEVATION | T&B | TOP AND BOTTOM |
| FG | FINISHED GRADE | T&C | TOP OF BACK CURB |
| FL | FLOW LINE | TC | TOP OF CURB |
| FT | FOOT (FEET) | TF | TOP OF FOOTING |
| FIG | FOOTING | TH | THICK |
| GA | GAUGE | TOPO | TOPOGRAPHY |
| GEN | GENERAL | TW | TOP OF WALL |
| GR | GRADE ELEVATION | TYP | TYPICAL |
| HDPE | HIGH-DENSITY POLYURETHANE | VAR | VARIES |
| HORIZ | HORIZONTAL | VOL | VOLUME |
| HP | HIGH POINT | W/ | WITH |
| HT | HEIGHT | W/O | WITHOUT |
| ID | INSIDE DIAMETER | WT | WEIGHT |
| INV | INVERT ELEVATION | WL | WATER LEVEL |
| IN | INCH(ES) | WWF | WELED WIRE FABRIC |
| INCL | INCLUDE(D) | YD | YARD |
| JT | JOINT | @ | AT |
| LF | LINEAR FEET | | |
| LP | LOW POINT | | |
| MAX | MAXIMUM | | |

SYMBOLS LEGEND



1 KEY PLAN

Scale: 1:50

LANDSCAPE REQUIREMENTS - Paragon Star North Village Final Development Plan

CITY: LEE'S SUMMIT, MISSOURI

| Code | Requirement | Location | Dimension | Required | Provided | Additional Notes |
|---|---|---|----------------------|--------------------|--------------------|---|
| 8.790.A.1 Street Frontage Trees | One (1) tree shall be planted for each 30lf of street frontage | Paragon Parkway | 743 LF | 25 Trees | 27 | Trees part of streetscape designs |
| 8.790.A.2 Street Frontage Green Strip | Any parking or loading visible from a street shall be separated with a 20 ft wide landscape strip | East & West Ends of Paragon Parkway | | 20 FT | 20 FT | |
| 8.790.A.3 Street Frontage Shrubs | One (1) shrub shall be provided for each 20ft of street frontage | Paragon Parkway | 743 LF | 25 Shrubs | 25 | Provided as part of streetscape design |
| 8.790.B.1 Open Yard Areas | Provide two (2) shrubs per 5,000 square feet of total lot area excluding building footprint area. | North Village Lot | 120683 SF | 48 Shrubs | 48 | 236,554 SF of lot area 115,871 SF building footprint |
| 8.790.B.2 Open Yard Areas | All portions of the site not covered with paving or buildings shall be landscaped. | North Village Lot | N/A | | | Refer to site landscape beds |
| 8.790.B.3 Open Yard Areas | In addition to trees required based upon street frontage, provide one (1) tree for every 5,000 square feet of lot area not covered by buildings/structures. | North Village Lot | 120683 SF | 24 Trees | 30 | 236,554 SF of lot area 115,871 SF building footprint |
| 8.810.A Parking Lot Landscaping & Trees | Landscape islands, strips or other planting areas shall constitute 5% of the entire area devoted to parking spaces, aisles and driveways. | Northeast Parking Lot West Parking Lot | 42346 SF 22310 SF | 2117 SF 1116 SF | 2538 SF 1368 SF | |
| 8.810.B Parking Lot Landscaping & Trees | Landscape island shall be located at the end of every parking bay. The island shall be planted in trees, shrubs, grass, or ground cover. | Northeast and West Parking Lots | N/A | | | Refer to site landscape beds |
| 8.810.C Parking Lot Landscaping & Trees | Tree planting areas shall be no less than ten feet in width. No tree shall be located less than four feet from the back of curb. | Northeast and West Parking Lots | N/A | | | Refer to site landscape beds |

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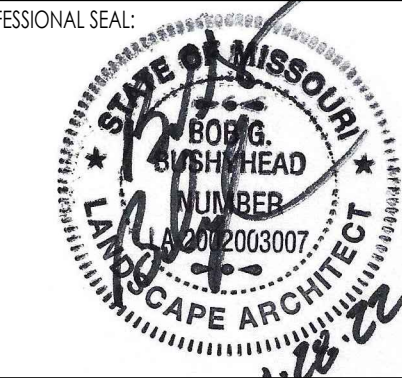
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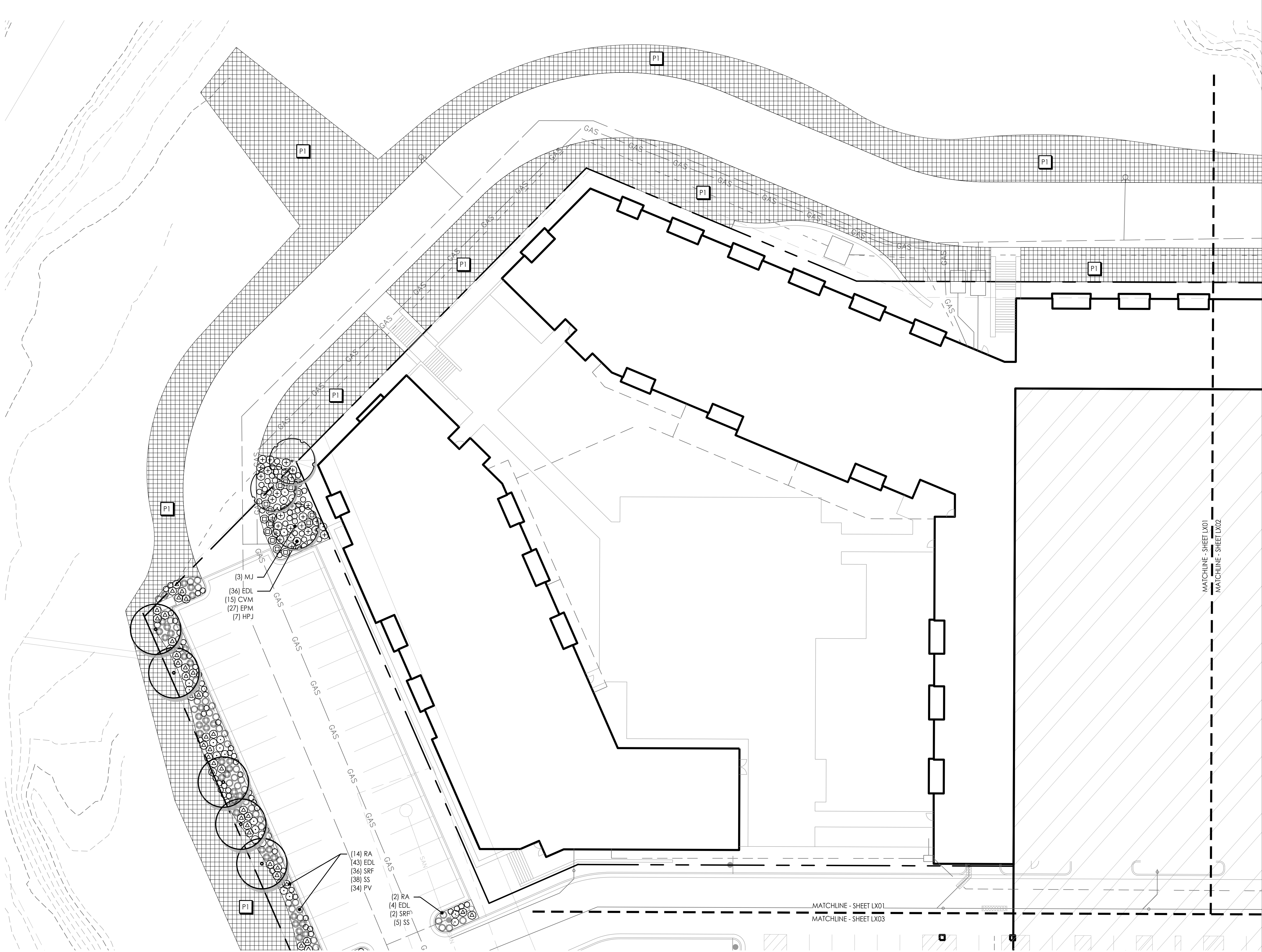
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1 PLANTING PLAN
Scale: 1:20



PLANTING SCHEDULE

| SYM. | KEY | COMMON NAME BOTANICAL NAME | SIZE & REMARKS |
|------------------------|--|--|----------------|
| ● | SHADE/STREET TREES | | |
| | AF | Autumn Blaze Maple <i>Acer freemanii</i> 'Autumn Blaze' | 3' cal. |
| | QR | Northern Red Oak <i>Quercus rubra</i> | 2.5" cal. |
| | GT | Sunburst Honeylocust <i>Gleditsia triacanthos inermis</i> 'Sunburst' | 3' cal. |
| | QB | Swamp White Oak <i>Quercus bicolor</i> | 2.5" cal. |
| | GB | Maidenhair Tree <i>Ginkgo biloba</i> 'Fastigiata' | 2.5" cal. |
| ○ | ORNAMENTAL TREE | | |
| | CC | Eastern Redbud <i>Cercis canadensis</i> | 3' cal. |
| | MJ | Magnolia <i>Magnolia x 'Jane'</i> | 3' cal. |
| | MA | Royal Raindrops® Crabapple <i>Malus 'JFS-KWS'</i> | 3' cal. |
| | AG | Autumn Brilliance Serviceberry <i>Amelanchier x grandiflora</i> 'Autumn Brilliance' | 3' cal. |
| ● | DECIDUOUS SHRUB | | |
| | RA | Grow-low Sumac <i>Rhus aromatica</i> 'Gro-low' | 3 gal. |
| | HPJ | Little Lime® Hydrangea <i>Hydrangea paniculata</i> 'Jane' | 5 gal. |
| ORNAMENTAL GRASS | | | |
| △ | BC | Side Oats Grama Grass <i>Bouteloua curtipendula</i> | 3 gal. |
| ⊕ | PV | Shennadoah Switchgrass <i>Panicum virgatum</i> 'Shennadoah' | 1 gal. |
| ⊕ | PAH | Dwarf Fountain Grass <i>Pennisetum alopecuroides</i> 'Hameln' | 1 gal. |
| ⊕ | SSC | Standing Ovation Little Bluestem <i>Schizachyrium scoparium</i> 'Standing Ovation' | 1 gal. |
| ⊕ | SS | Little Bluestem <i>Schizachyrium scoparium</i> | 1 gal. |
| ⊕ | SH | Prairie Dropseed <i>Sporobolus heterolepis</i> | 1 gal. |
| PERENNIAL/GROUND COVER | | | |
| △ | SRF | Rough Goldenrod <i>Solidago rugosa</i> 'Fireworks' | 1 gal. |
| ⊕ | CVM | Moonbeam Coreopsis <i>Coreopsis verticillata</i> 'Moonbeam' | 1 gal. |
| ⊕ | EPM | Purple Coneflower <i>Echinacea purpurea</i> 'Magnus' | 1 gal. |
| ⊕ | PA | Russian Sage <i>Perovskia atriplicifolia</i> | 3 gal. |
| ⊕ | EDL | Joe-pye Weed <i>Eupatorium dubium</i> 'Little-Joe' | 1 gal. |
| TURF/SEED MIXES | | | |
| P1 | Native Prairie Seed Mix Butterfly Milkweed- <i>Asclepias tuberosa</i> (5%) Blue Wild Indigo- <i>Baptisia australis</i> (5%) New Jersey Tea- <i>Ceanothus americanus</i> (5%) Amethyst Vernal Witchhazel (10%) Switchgrass- <i>Panicum virgatum</i> (13%) Little Bluestem- <i>Schizachyrium scoparium</i> (30%) Indiangrass- <i>Sorghastrum nutans</i> (20%) Fall Aster - <i>Symphoricarpos oblongifolium</i> (10%) | | |

PLANTING NOTES

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 - PLACE SHORTER (AT MATURITY) PLANTS AT THE EDGES OF PLANTERS OR WHERE CAR DOORS OR BUMPER MAY OVERHANG.
 - PLACE TALLER (AT MATURITY) PLANTS IN THE CENTER OF PLANTERS OR THE TRANSITION EDGE TO NATIVE SEEDED AREAS.

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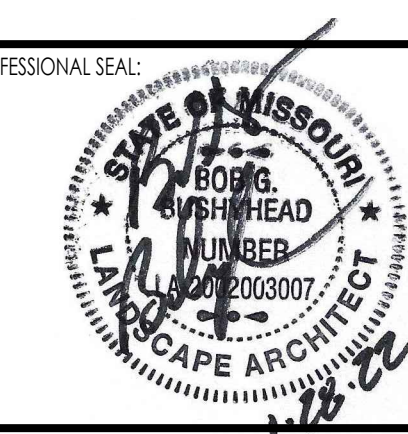
PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:



DRAWING TITLE:

PLANTING
PLAN

JOB NO: 1249

SCALE:

DATE: 01.28.2022

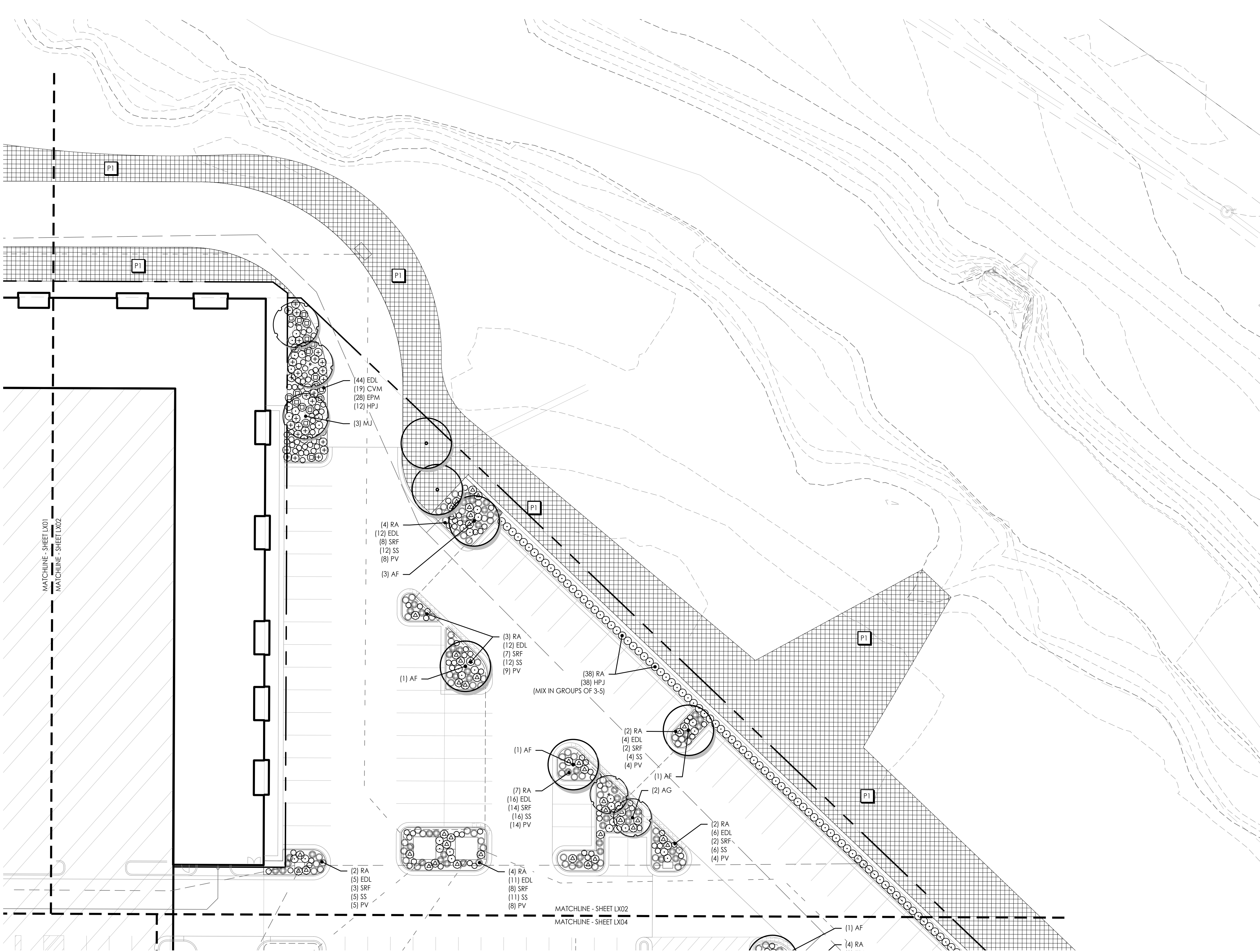
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







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0.3869-1
MICHAEL KILLEN



1 PLANTING PLAN
Scale: 1:20

PLANTING SCHEDULE

| SYM. | KEY | COMMON NAME BOTANICAL NAME | SIZE & REMARKS |
|---|--|---|----------------|
|  | SHADE/STREET TREES | | |
| | AF | Autumn Blaze Maple Acer freemanii 'Autumn Blaze' | 3' cal. |
| | QR | Northern Red Oak Quercus rubra | 2.5" cal. |
| | GT | Sunburst Honeylocust Gleditsia triacanthos inermis 'Sunburst' | 3" cal. |
| | QB | Swamp White Oak Quercus bicolor | 2.5" cal. |
| | GB | Maidenhair Tree Ginkgo biloba 'Fastigiata' | 2.5" cal. |
|  | ORNAMENTAL TREE | | |
| | CC | Eastern Redbud Cercis canadensis | 3' cal. |
| | MJ | Magnolia Magnolia x 'Jane' | 3' cal. |
| | MA | Royal Raindrops® Crabapple Malus 'JFS-KWS' | 3' cal. |
| | AG | Autumn Brilliance Serviceberry Amelanchier x grandiflora 'Autumn Brilliance' | 3' cal. |
|  | DECIDUOUS SHRUB | | |
| | RA | Grow-low Sumac Rhus aromatica 'Gro-low' | 3 gal. |
| | HPJ | Little Lime® Hydrangea Hydrangea paniculata 'Jane' | 5 gal. |
| ORNAMENTAL GRASS | | | |
|  | BC | Side Oats Grama Grass Bouteloua curtipendula | 3 gal. |
|  | PV | Shennadoah Switchgrass Panicum virgatum 'Shennadoah' | 1 gal. |
|  | PAH | Dwarf Fountain Grass Pennisetum alopecuroides 'Hameln' | 1 gal. |
|  | SSC | Standing Ovation Little Bluestem Schizachyrium scoparium 'Standing Ovation' | 1 gal. |
|  | SS | Little Bluestem Schizachyrium scoparium | 1 gal. |
|  | SH | Prairie Dropseed Sporobolus heterolepis | 1 gal. |
| PERENNIAL/GROUND COVER | | | |
|  | SRF | Rough Goldenrod Solidago rugosa 'Fireworks' | 1 gal. |
|  | CVM | Moonbeam Coreopsis Coreopsis verticillata 'Moonbeam' | 1 gal. |
|  | EPM | Purple Coneflower Echinacea purpurea 'Magnus' | 1 gal. |
|  | PA | Russian Sage Perovskia atriplicifolia | 3 gal. |
|  | EDL | Joe-pye Weed Eupatorium dubium 'Little-Joe' | 1 gal. |
| TURF/SEED MIXES | | | |
|  | Native Prairie Seed Mix | | |
| | Butterfly Milkweed- Asclepias tuberosa (5%) | | |
| | Blue Wild Indigo- Baptisia australis (5%) | | |
| | New Jersey Tea- Ceanothus americanus (5%) | | |
| | Amethyst Vernal Witchhazel (10%) | | |
| | Switchgrass- Panicum virgatum (13%) | | |
| | Little Bluestem- Schizachyrium scoparium (30%) | | |
| | Indiangrass- Sorghastrum nutans (20%) | | |
| Fall Aster - Symphyotrichum oblongifolium (10%) | | | |

PLANTING NOTES

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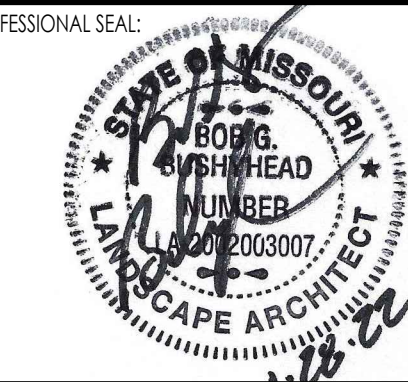
PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:



DRAWING TITLE:

PLANTING
PLAN

JOB NO: 1249

SCALE:

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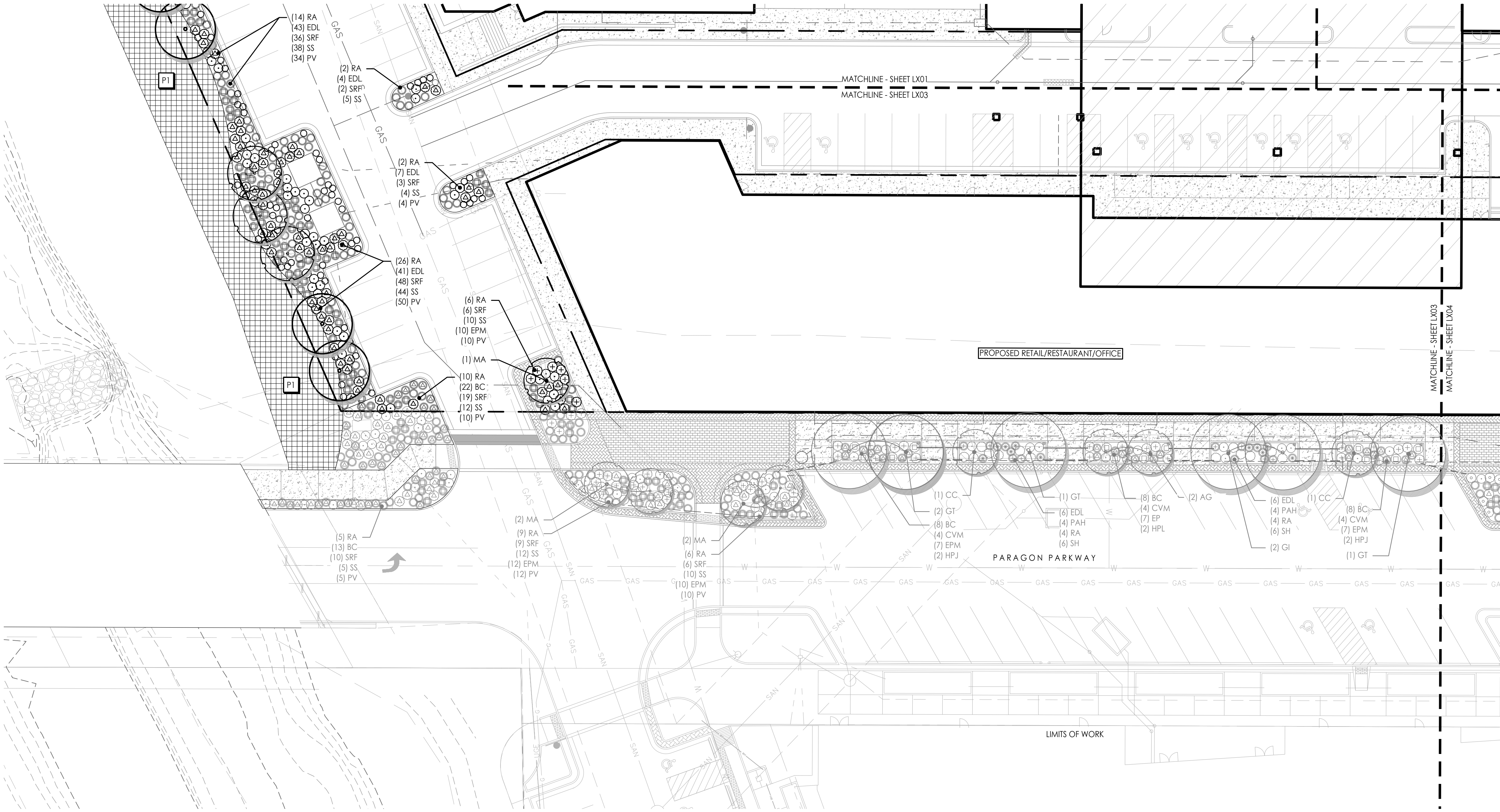
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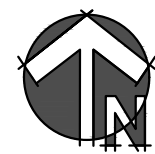
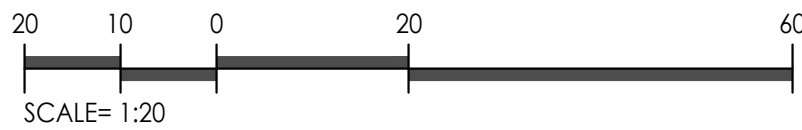
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0.386921
MICHAEL KILLEN



1 PLANTING PLAN
Scale: 1:20



PLANTING SCHEDULE

| SYM. | KEY | COMMON NAME BOTANICAL NAME | SIZE & REMARKS |
|------|---|--|----------------|
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| | GT | Sunburst Honeylocust <i>Gleditsia triacanthos inermis</i> 'Sunburst' | 3" cal. |
| | QB | Swamp White Oak <i>Quercus bicolor</i> | 2.5" cal. |
| | GB | Maidenhair Tree <i>Ginkgo biloba</i> 'Fastigiata' | 2.5" cal. |
| | ORNAMENTAL TREE | | |
| | CC | Eastern Redbud <i>Cercis canadensis</i> | 3" cal. |
| | MJ | Magnolia <i>Magnolia</i> x 'Jane' | 3" cal. |
| | MA | Royal Raindrops® Crabapple <i>Malus</i> 'JFS-KWS' | 3" cal. |
| | AG | Autumn Brilliance Serviceberry <i>Amelanchier</i> x grandiflora 'Autumn Brilliance' | 3" cal. |
| | DECIDUOUS SHRUB | | |
| | RA | Grow-low Sumac <i>Rhus aromatica</i> 'Gro-low' | 3 gal. |
| | HPJ | Little Lime® Hydrangea <i>Hydrangea paniculata</i> 'Jane' | 5 gal. |
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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:



DRAWING TITLE:

**PLANTING
PLAN**

JOB NO: 1249

SCALE:

DATE: 01.28.2022

DRAWN BY: MRK

SHEET NO:

L503



PLANTING NOTES

- | |
|--|
| JOB NO: 1249 SCALE: DATE: 01.28.2022 DRAWN BY: MRK SHEET NO: |
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Paragon Star North Village

3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

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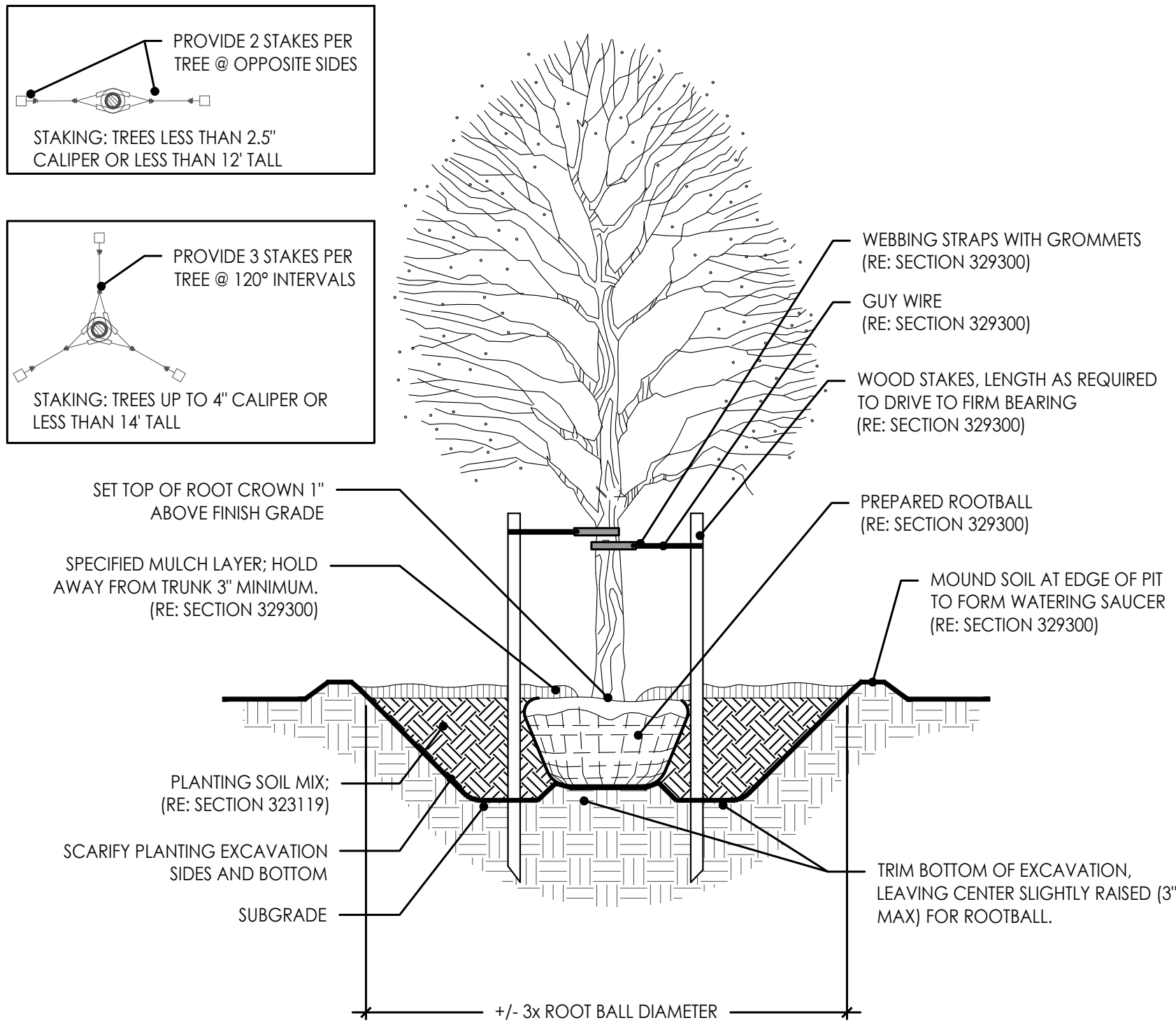
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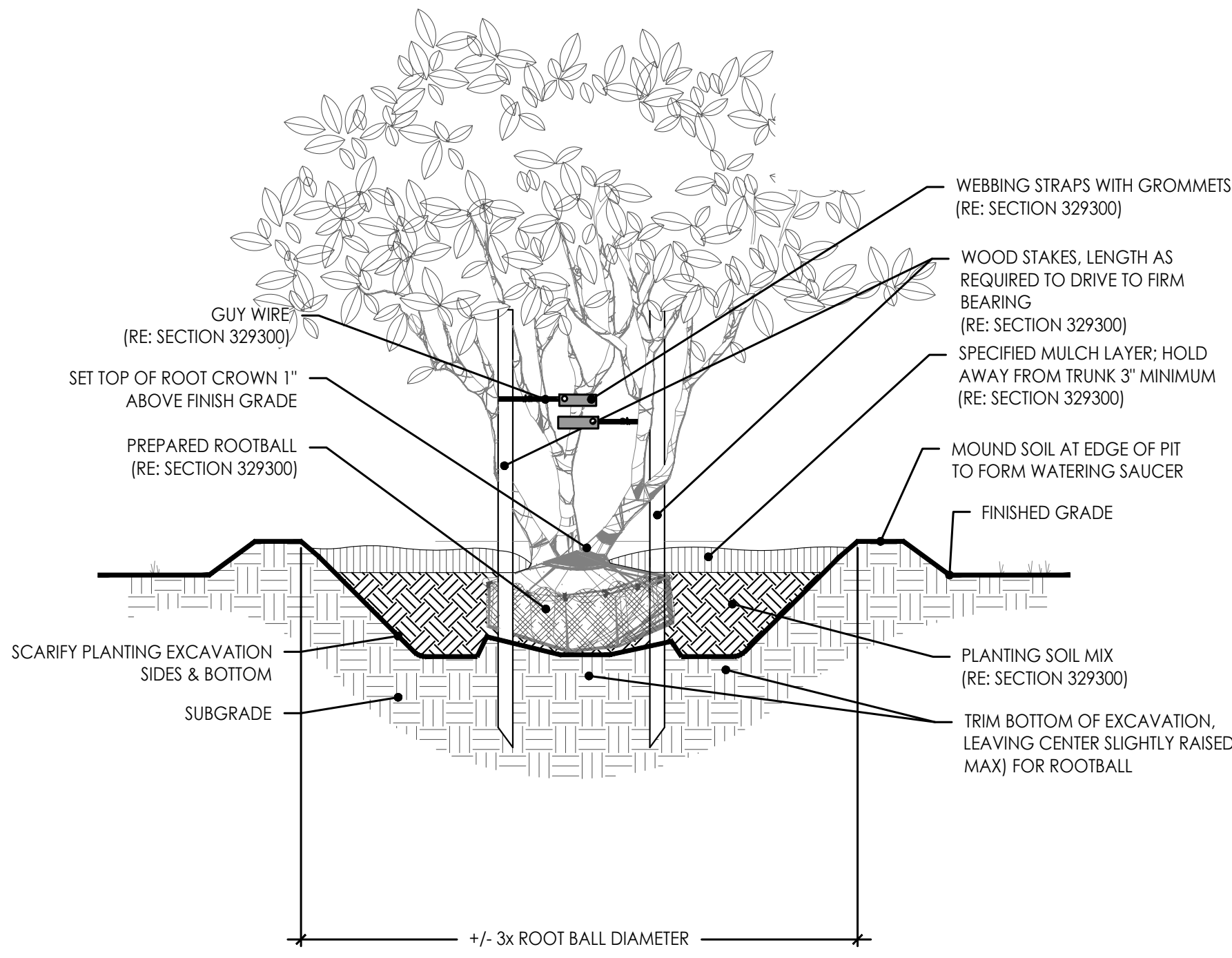
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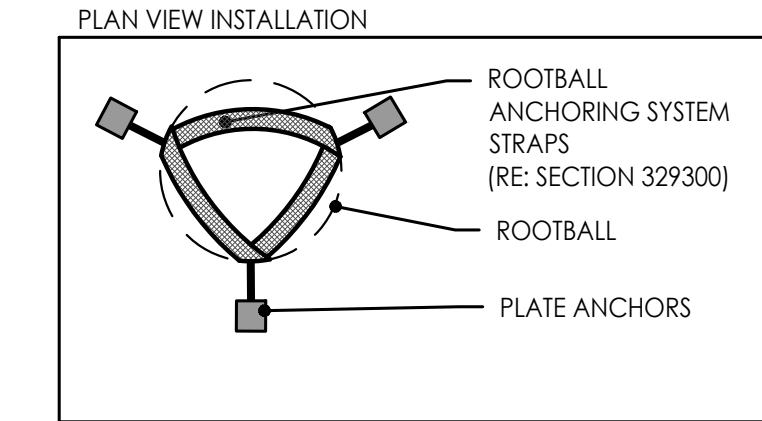
1 DECIDUOUS TREE PLANTING

Scale: N.T.S.



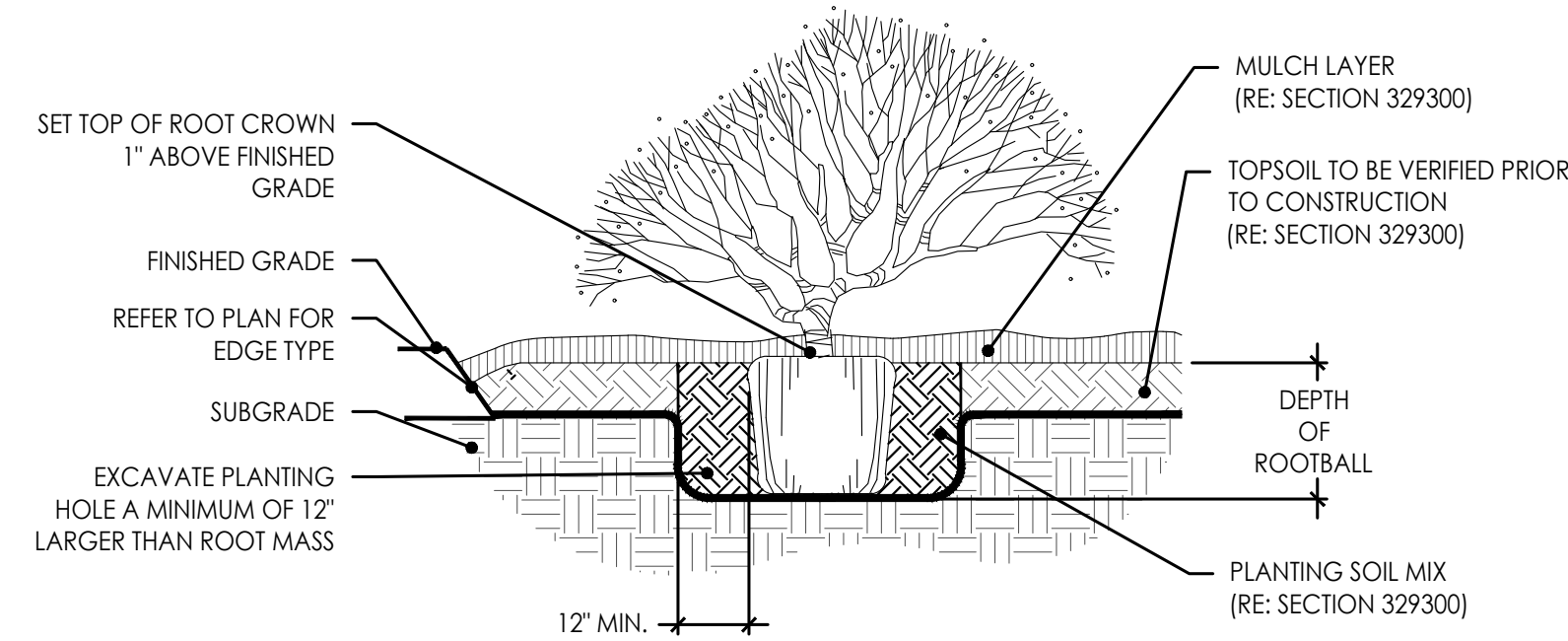
2 MULTI-STEM TREE PLANTING

Scale: N.T.S.



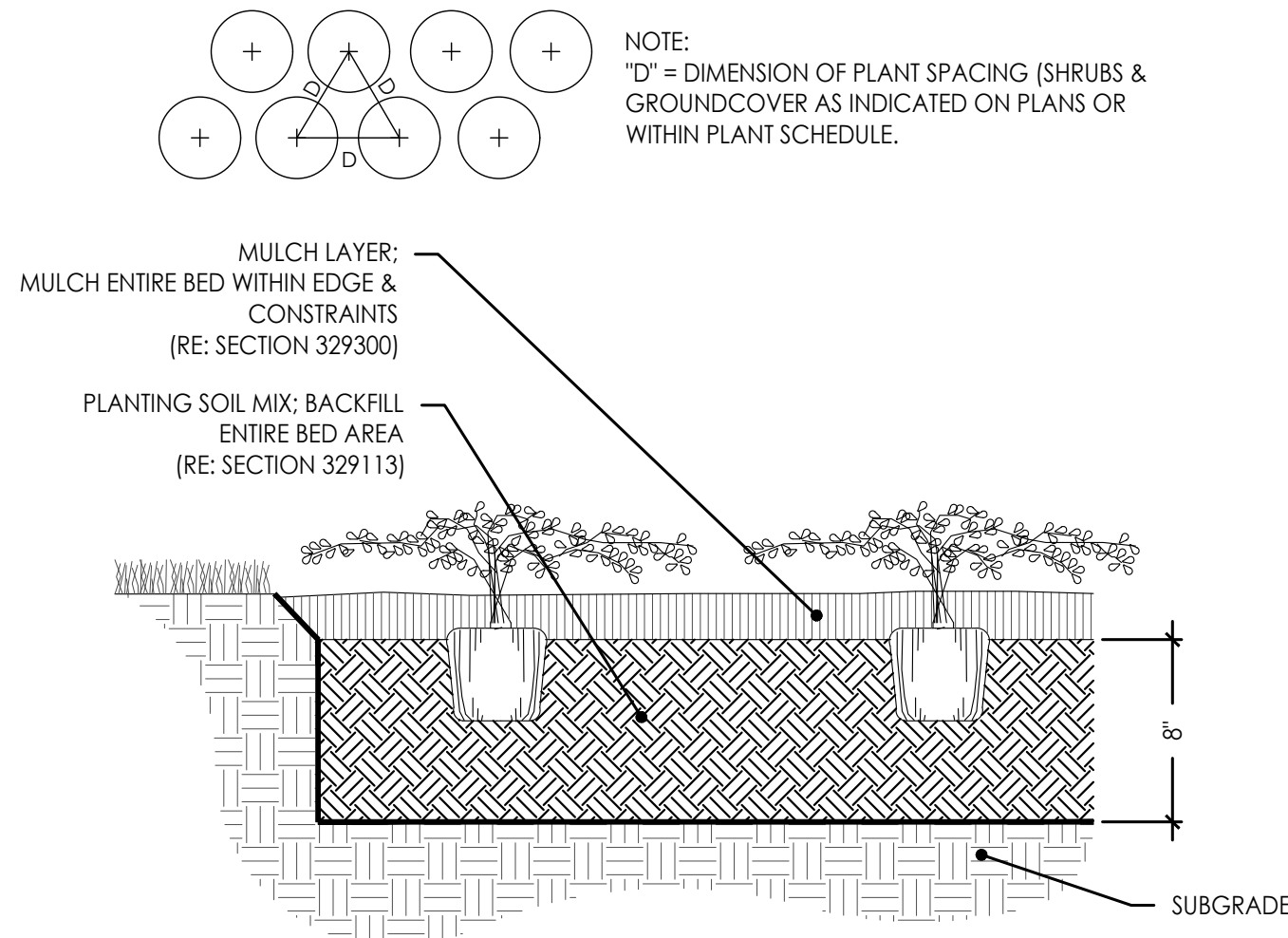
3 TREE IN RAISED CURB PLANTER

Scale: N.T.S.



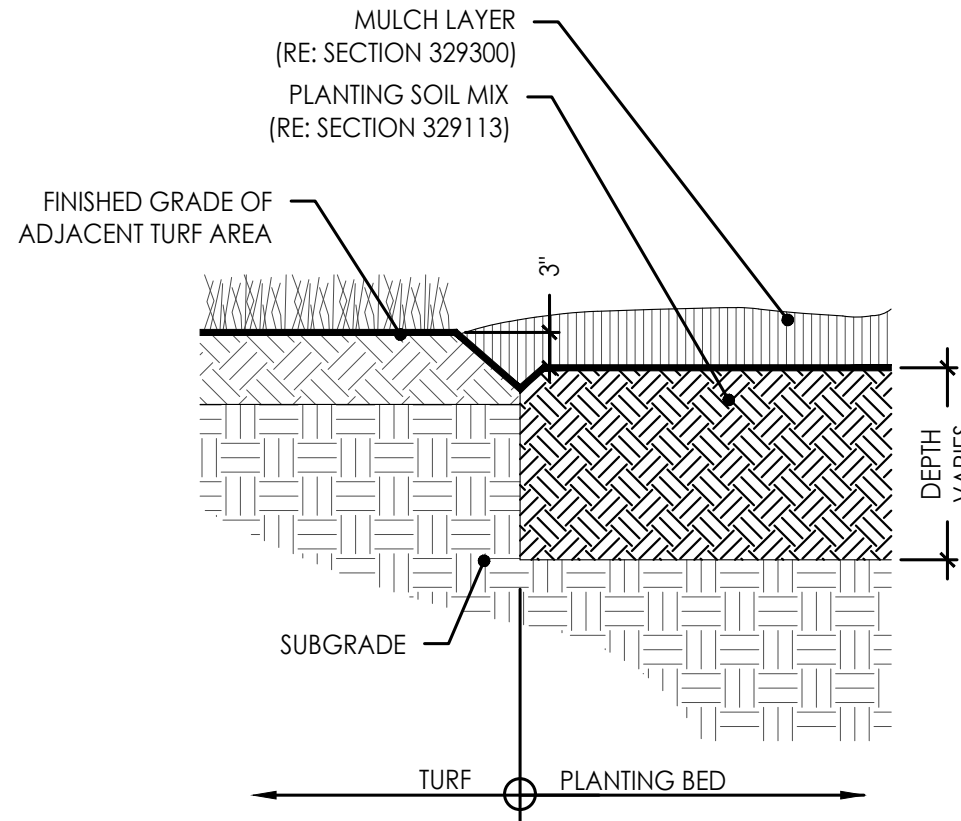
4 SHRUB PLANTING

Scale: N.T.S.



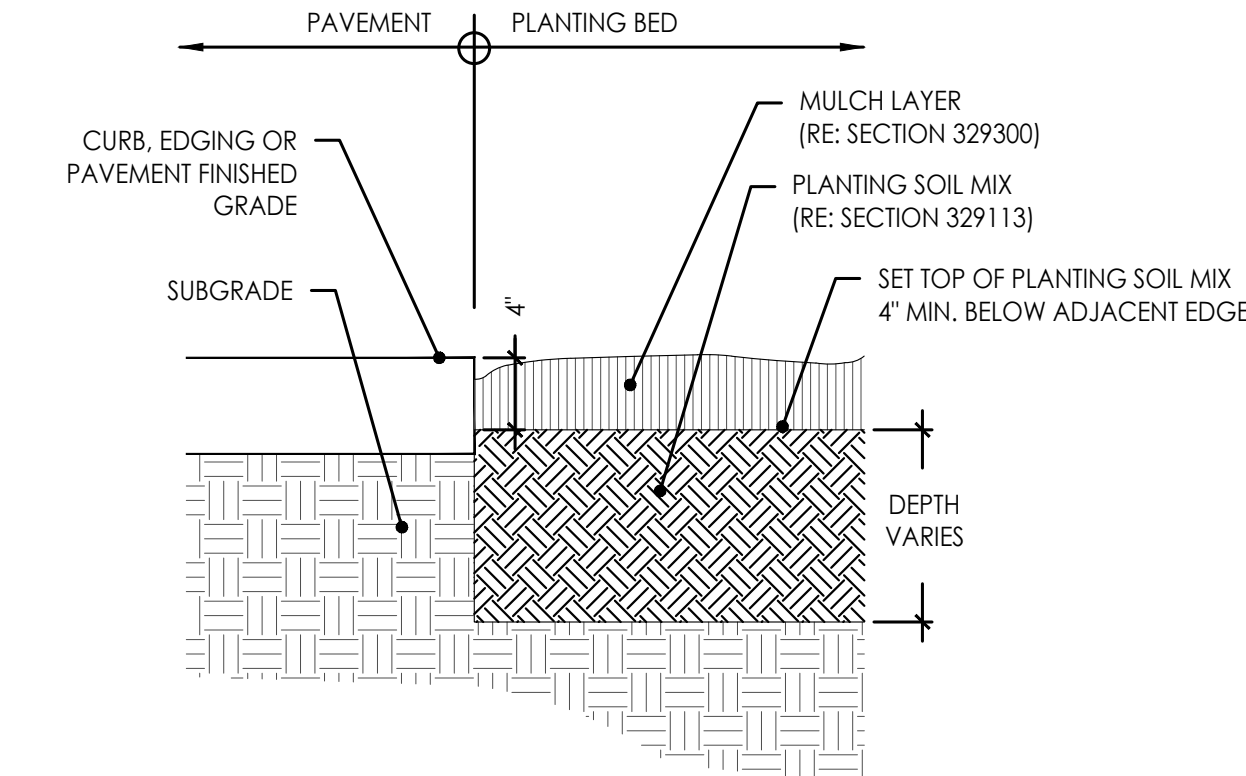
5 GROUNDCOVER PLANTING

Scale: N.T.S.



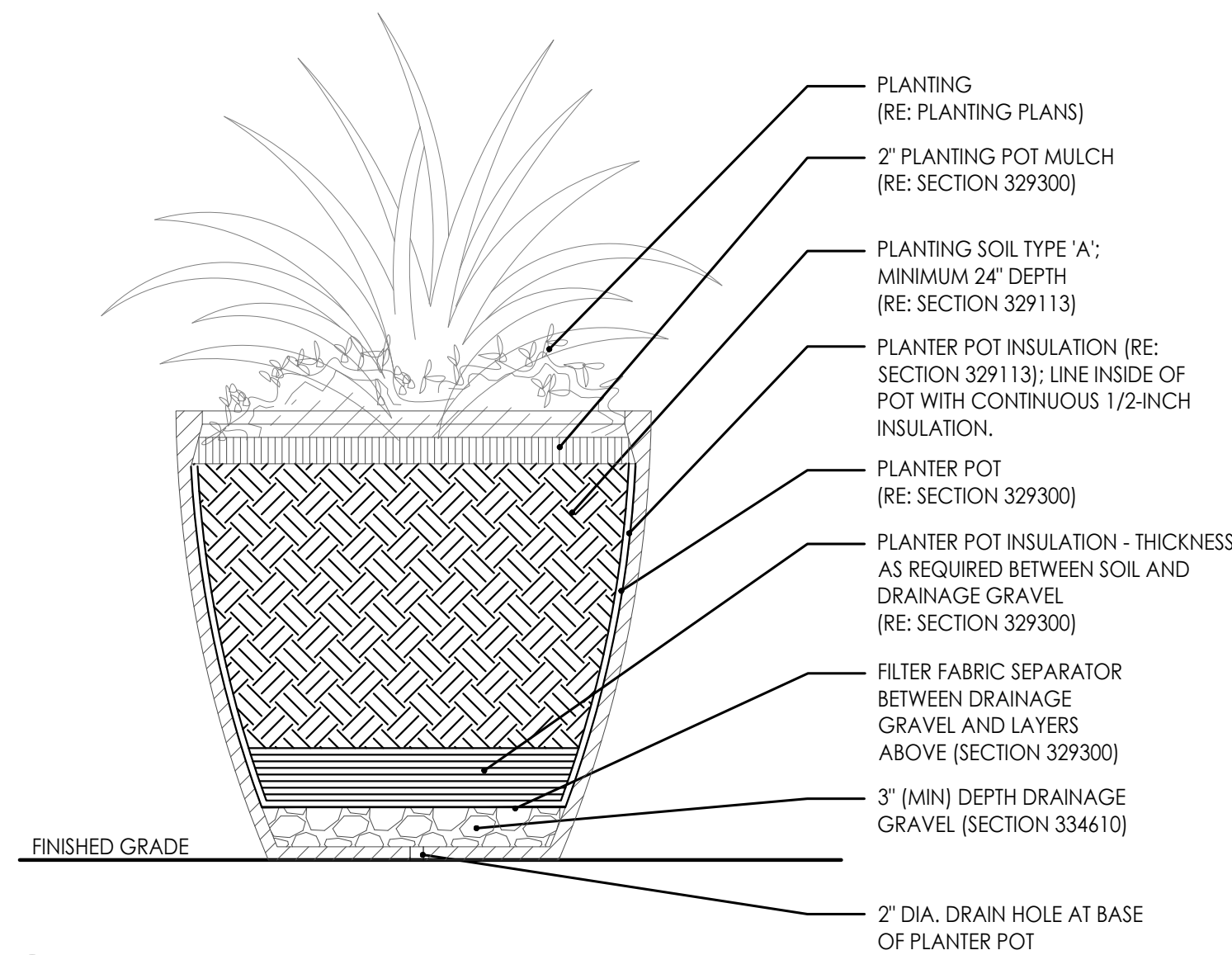
6 CULTIVATED EDGE

Scale: N.T.S.



7 PLANTING EDGE @ CONCRETE

Scale: N.T.S.



8 PLANTING POT (TYP.)

Scale: N.T.S.

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DETAILS

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L520

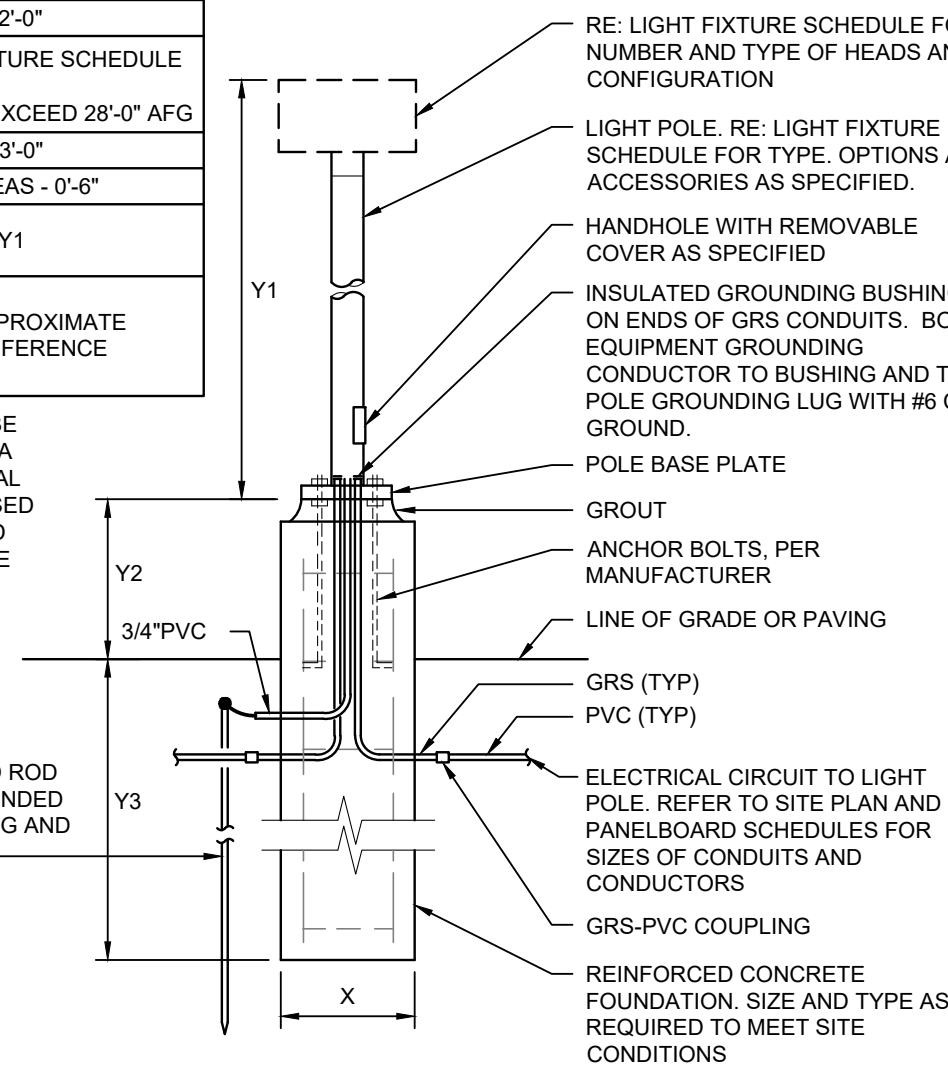
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| TABLE OF DIMENSIONS* | |
|----------------------|---|
| X | POLE HEIGHT < 16' = 1'-6" |
| | POLE HEIGHT > 16' = 2'-0" |
| Y1 | REFER TO LIGHT FIXTURE SCHEDULE FOR POLE HEIGHT. Y1 + Y2 SHALL NOT EXCEED 28'-0" AFG |
| Y2 | VEHICULAR AREAS - 3'-0" |
| | NON-VEHICULAR AREAS - 0'-8" |
| Y3 | 1/4 OF POLE HEIGHT Y1 |

* NOTE:
ALL DIMENSIONS ARE APPROXIMATE
AND ARE SHOWN FOR REFERENCE
ONLY.

POLE FOUNDATION SHALL BE
DESIGNED AND SEALED BY A
PROFESSIONAL STRUCTURAL
OR CIVIL ENGINEER LICENSED
IN THE PROJECT STATE AND
SUBMITTED AS PART OF THE
SUBMITTAL PROCESS.

5/8" X 8" DRIVEN GROUND ROD
WITH #6 CU. GROUND BONDED
TO POLE GROUNDING LUG AND
TO GROUND ROD



2 POLE BASE DETAIL
NO SCALE

| LIGHT FIXTURE SCHEDULE | | | | | | |
|------------------------|--|-----|--|------|----------------|-------------|
| TYPE | MANUFACTURER/MODEL # | NO. | LAMP'S | VOLT | INPUT WATTS | INPUT VA |
| | | | TYPE | | | |
| S1 | MCGRAW-EDISON GLNA-AF-03-LED-T4W-BK WIKW INDUSTRIES RAP-25-6.0-X-BLK-DM10 | - | LED BY MANUFACTURER 4000K, 70 CRI 17,984 LUMENS 400,000 HRS B2-UO-G2 | 480 | 166 | 166 |
| S1A | MCGRAW-EDISON GLNA-AF-03-LED-T4FT-BK GLNA-AF-01-LED-T2-BK W VALMONT IDYLINE CURVES c5-03-DCG-DCG-DCG-DCG | - | LED BY MANUFACTURER 4000K, 70 CRI 18,220 400,000 HRS B2-UO-G2 4,015 LUMENS B1-UO-G1 | 480 | 166 | 166 |
| S2 | MCGRAW-EDISON (2) GLNA-AF-03-LED-480-T4W-BK WIKW INDUSTRIES RAP-25-6.0-X-BLK-DM2180 | - | LED BY MANUFACTURER 4000K, 70 CRI 35,968 LUMENS 40,000 HRS B2-UO-G2 | 480 | 332 | 332 |

GENERAL NOTES:

- REFER TO SHEET E000 FOR GENERAL NOTES.

KEYNOTES:

- REFER TO DETAIL 2, SHEET E100 FOR POLE BASE DETAIL.
- PARKING LOT LIGHTING CIRCUIT. ROUTE CONDUIT AND CIRCUIT TO BUILDING #1 ELECTRICAL ROOM. CIRCUIT SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL WITH PHOTOCELL ON/OFF CONTROL IN SEPARATE BUILDING PACKAGE. PROVIDE (2) #10 AWG WITH (1) #10 GROUND IN 1" CONDUIT FOR WIRING FROM POLE TO POLE AND POLE. WIRE SIZE FOR HOME RUN TO FUTURE PANELBOARD WILL BE DETERMINED TO ACCOUNT FOR VOLTAGE DROP.

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12/31/22

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www.finklewilliams.com
Missouri Certificate of Authority #F00453304

PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

THIS DOCUMENT IS RELEASED
FOR THE PURPOSE OF
PRELIMINARY SUBMITTAL
ANDREA C. MULVANY
LICENSE # PE-2013039892

IT IS NOT TO BE USED FOR
CONSTRUCTION
PURPOSES.

DRAWING TITLE:

NORTH VILLAGE
SITE LIGHTING
PLAN

JOB NO: 1249

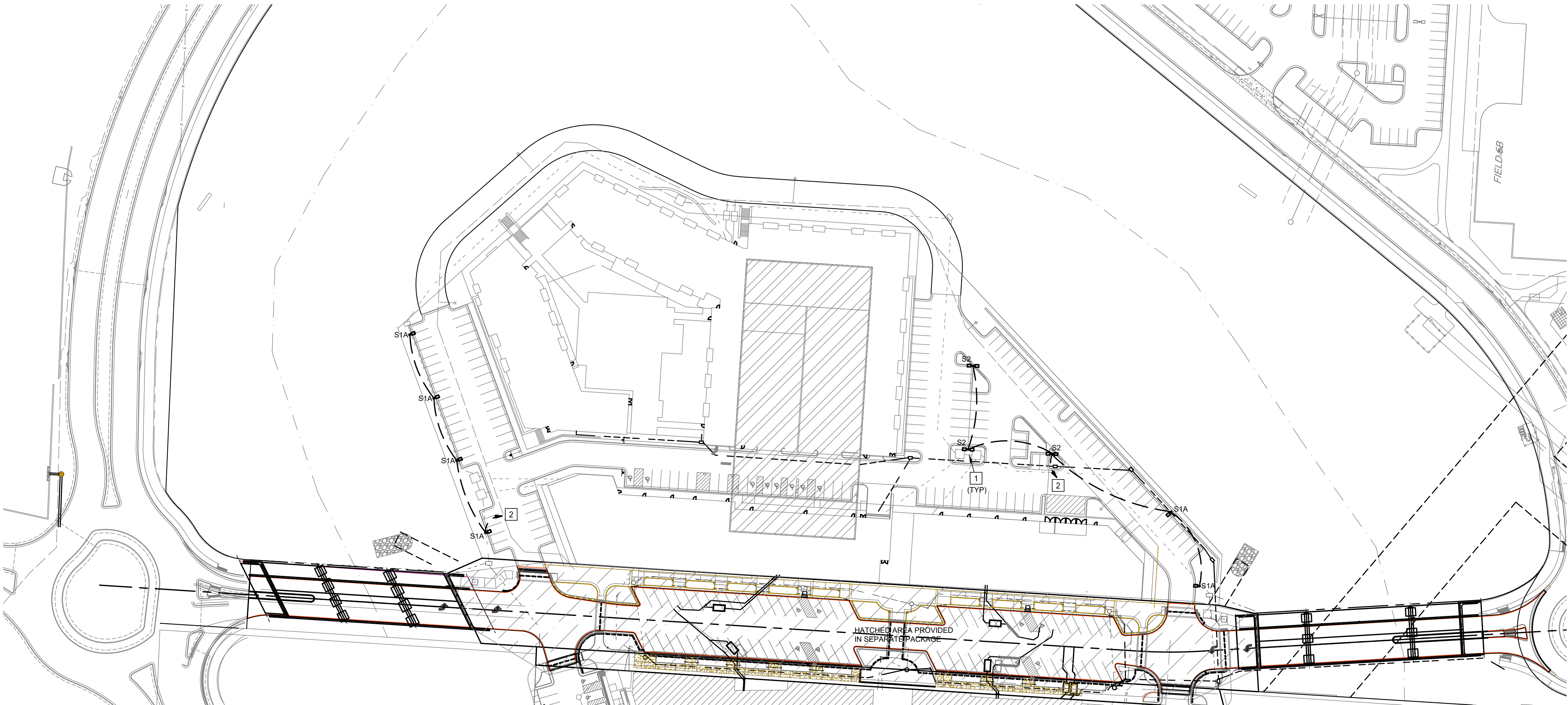
SCALE:

DATE: 01.21.2022

DRAWN BY: MAP

SHEET NO:

E100



1 NORTH VILLAGE SITE LIGHTING PLAN
SCALE: 1" = 64'

J:\Kansas City\2018\1550004417 Paragon Star Development - Lee's Summit - MO 002 - Paragon Site Development\Elec\1550004412_NV 002 - North Village Electrical Specifications.dwg
1/21/2022 12:35:51 AM
MARCUS PERRY
01/7/21
DESIGNS, AMENDMENTS, AND REVISIONS ARE SHOWN BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR ORGANIZATION FOR ANY PURPOSE, WITHOUT WRITTEN PERMISSION OF LANDS STUDIO, LLC.

Division 26: GENERAL ELECTRICAL REQUIREMENTS

1. GENERAL INSTRUCTIONS

A. GENERAL REQUIREMENTS

All requirements under Division 01 and the general and supplementary conditions of these specifications apply to this section and division. Where the requirements of this section and division exceed those of Division 01, this section and division take precedence. Become thoroughly familiar with all its contents as to requirements that affect this division, section, or both. Work required under this division includes all material, equipment, appliances, transportation, services, and labor required to complete the entire system as required by the drawings and specifications, or reasonably inferred to be necessary to facilitate the function of each system as implied by the design and the equipment specified.

The specifications and drawings for the project are complementary, and any portion of work described in one shall be provided as if described in both. In the event of discrepancies, notify the Engineer and request clarification prior to proceeding with the work involved.

Drawings are graphic representations of the work upon which the contract is based. They show the materials and their relationship to one another, including sizes, shapes, locations, and connections. They convey the scope of work, indicating the intended general arrangement of the systems without showing all of the exact details as to elevations, offsets, control lines, and other installation requirements. Use the drawings as a guide when laying out the work and to verify that materials and equipment will fit into the designated spaces, and which when installed per manufacturers' requirements, will ensure a complete, coordinated, satisfactory, and properly operating system.

B. DEFINITIONS

Division: References contained in this specification follow the numbering system defined in the Construction Specifications Institute (CSI) MasterFormat 2004 Edition. Specification Divisions 01 through 33 provided with this project may reference the CSI MasterFormat 1995 Edition. The corresponding division references between the 2004 Edition and 1995 Edition are as follows:

| 2004 Edition | 1995 Edition |
|---|--------------|
| 1. Division 21 - Fire Suppression | Division 15 |
| 2. Division 22 - Plumbing | Division 15 |
| 3. Division 23 - HVAC | Division 15 |
| 4. Division 26 - Electrical | Division 16 |
| 5. Division 27 - Communications | Division 16 |
| 6. Division 28 - Electronic Safety and Security | Division 16 |

Furnish: "to supply and deliver to the project site, ready for unloading, unpacking, assembling, installing, and similar operation."

Install: "to perform all operations at the project site including, but not limited to, the actual unloading, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, testing, commissioning, starting up and similar operations, complete, and ready for the intended use."

Provide: "to furnish and install."

Furnished by Owner (or Owner-Furnished) or Furnished by Others: "an item furnished by the Owner or under other divisions or contracts, and installed under the requirements of this division, complete, and ready for the intended use, including all items and services incidental to the work necessary for proper installation and operation. Include the installation under the warranty required by this division.

Engineer: Where referenced in this Division, "Engineer" is the Engineer of Record and the Design Professional for the work under this division, and is a consultant to, and an authorized representative of the Architect, as defined in the General and/or Supplementary Conditions. When used in this division Engineer means increased involvement by and obligations to the Engineer, in addition to involvement by and obligations to the Architect.

AHJ: The local code and/or inspection agency (Authority) Having Jurisdiction over the Work.

NRTL: Nationally Recognized Testing Laboratory, as defined and listed by OSHA in 29 CFR 1910.7 (e.g., UL, ETL, CSA), and acceptable to the AHJ over this project. Nationally recognized testing laboratories and standards listed are only used to represent the characteristics required and are not intended to restrict the use of other NRTLs that are acceptable to the AHJ and standards that meet the specified criteria.

Homeman: That portion of an electrical circuit originating at a junction box, termination box, receptacle, or switch with termination at an electrical panelboard. Note: Where MC cable is utilized for receptacle and/or lighting branch circuiting loads, the originating point of the homeman shall be at the first load in the circuit or at a junction box located in an accessible ceiling space as close as possible to the first load.

Substitution: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor. Substitutions include Value Engineering proposals.
Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

The terms "approved equal," "equivalent," or "equal" are used synonymously and shall mean "accepted by or acceptable to the Engineer as equivalent to the item or manufacturer specified." The term "approved" shall mean labeled, listed, certified, or all three, by an NRTL, and acceptable to the AHJ over this project.

C. PRE-BID SITE VISIT

Prior to submitting bid, visit the site of the proposed work and become fully informed as to the conditions under which the work is to be done. Failure to comply with this requirement shall not be considered sufficient justification to request additional extra compensation over and above the contract price.

D. MATERIAL AND WORKMANSHIP

Provide new material, equipment, and apparatus under this contract unless otherwise stated herein, of best quality normally used for the purpose in good commercial practice, and free from defects. Model numbers listed in the specifications or shown on the drawings are not necessarily intended to designate the required trim, written descriptions of the trim govern model numbers.

Provide markings or a nomenclature for all material and equipment identifying the manufacturer and providing sufficient reference to establish quality, size, and capacity. All workmanship shall be of the finest possible by experienced mechanics of the proper trade. In general, provide the following quality grade(s) for all materials and equipment.

Commercial specification grade:

Provide all hoists, scaffolds, staging, runways, tools, machinery, and equipment required for the performance of the electrical work. Store and maintain material and equipment in good condition, and protected from weather, moisture, and physical damage.

Furnish only material and equipment that are listed, labeled, certified, or all three, by an NRTL, whenever any listing or labeling exists for the types of material and equipment specified.

At a minimum, general work practices for electrical construction shall be in accordance with NECA 1 (latest edition), "Standard Practices for Good Workmanship in Electrical Construction".

E. MANUFACTURERS

In other articles where lists of manufacturers are introduced, subject to compliance with requirements, provide products by one of the manufacturers specified.

Where a list is provided, manufacturers are listed alphabetically and not in accordance with any ranking or preference.

Where manufacturers are not listed, provide products subject to compliance with requirements from manufacturers that have been actively involved in manufacturing the specified product for no less than 5 years.

F. COORDINATION

Coordinate all work with other divisions and trades so that various components of the systems are installed at the proper time, fit the available space, and allow proper service access to those items requiring maintenance. Components which are installed without regard to the above shall be relocated at no additional cost to the Owner.

Unless otherwise indicated, the General Contractor shall provide chases and openings in building construction required for installation of the systems specified herein. Contractor shall furnish the General Contractor with information where chases and openings are required. Contractor shall keep informed as to the work of other trades engaged in the construction of the project and shall execute work in a manner as to not interfere with or delay the work of other trades.

Figured dimensions shall be taken in preference to scale dimensions. Contractor shall take his own measurements at the building, as variations may occur. Contractor shall be held responsible for errors that could have been avoided by proper checking and inspection.

Provide materials with trim that will properly fit the types of ceiling, wall, or floor finishes actually installed. Model numbers listed in the specifications or shown on the drawings are not intended to designate the required trim.

Make all offsets required to clear equipment, beams, and other structural members, and to facilitate concealing raceways in the manner anticipated in the design. Provide materials with trim that will fit properly the types of ceiling, wall, or floor finishes actually installed.

G. ORDINANCES AND CODES

Work performed under this contract shall, at a minimum, be in conformance with applicable national, state and local codes having jurisdiction. Equipment furnished and associated installation work performed under this contract shall be in strict compliance with current applicable codes adopted by the local AHJ, including any amendments and standards as set forth by the following:

- National Fire Protection Association (NFPA)
- Underwriters Laboratories (UL)
- Occupational Safety and Health Administration (OSHA)
- American National Standards Institute (ANSI)
- American Society of Testing Materials (ASTM)

- Rules and regulations of public utilities and municipal departments affected by connection of services.
- Other national standards and codes where applicable.

Where the contract documents exceed the requirements of the referenced codes, standards, etc., the contract documents shall take precedence. Where conflicts between various codes, ordinances, rules, and regulations exist, comply with the most stringent.

Promptly bring all conflicts observed between codes, ordinances, rules, regulations, referenced standards, and these documents to the attention of the Architect and Engineer for final resolution. Contractor will be held responsible for any violation of the law.

Procure and pay for permits and licenses required for the accomplishment of the work herein described. Where required, obtain, pay for, and furnish certificates of inspection to Owner. Provide all safety lights, guards, and warning signs required for the performance of the work and for the safety of the public.

H. PROTECTION OF EQUIPMENT AND MATERIALS

Store and protect from damage equipment and materials delivered to job site. For materials and equipment susceptible to changing weather conditions, dampness, or temperature variations, store inside in conditioned spaces. For materials and equipment not susceptible to these conditions, cover with waterproof, tear-resistant, heavy tarp or polyethylene plastic as required to protect from plaster, dirt, paint, water, or physical damage. Equipment and material damaged by construction activities shall be repaired, and Contractor shall furnish new equipment and material of a like kind at his own expense.

Keep premises broom clean of foreign material created during work performed under this contract. Conduit, equipment, etc., shall have a neat and clean appearance at the termination of the work.

Plug or cap open ends of conduits while stored and installed during construction when not in use to prevent the entrance of debris into the systems.

I. SUBSTITUTIONS

Materials, products, equipment, and systems described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by the proposed substitution. The base bid shall include only the products from manufacturers specifically named in the drawings and specifications. To request a substitution, request the Substitution Request Form from the Architect or Engineer. Complete and send the Substitution Request Form for each material, product, equipment, or system that is proposed to be substituted. The burden of proof of the merit of the proposed substitution is upon the proposer.

Unless stated otherwise in writing to the Engineer by the Contractor, Contractor warrants to the Engineer, Architect, and Owner the following:

- Proposed substitution has been fully investigated and determined to meet or exceed the specified Work in all respects unless stated otherwise in the substitution request.
- Proposed substitution is consistent with the Contract Documents and will produce indicated results, including functional clearances, maintenance service, and sourcing of replacement parts.
- Proposed substitution has received necessary approvals of authorities having jurisdiction.
- Same warranty will be furnished for proposed substitution as for specified Work.
- If accepted substitution fails to perform as required, Contractor shall replace substitute material or system with that originally specified and bear costs incurred thereby.
- Coordination, installation and changes in the Work as necessary for accepted substitution will be complete in all respects.

No substitutions will be considered unless the Substitution Request Form is completed and attached with the appropriate substitution documentation. No substitution will be considered prior to receipt of bids unless written request for approval to bid has been received by the Engineer at least ten (10) calendar days prior to the date for receipt of bids.

If the proposed substitution is approved prior to receipt of bids, such approval will be stated in an addendum. Bidders shall not rely upon approvals made in any other way. Verbal approval will not be given. No substitutions will be considered after the contract is awarded unless specifically provided in the contract documents.

Provide factory generated point-by-point calculations for all exterior light fixtures (photometric files for luminaires and engineering calculations for the AHJ over this project. Nationally recognized testing laboratories and standards listed are only used to represent the characteristics required and are not intended to restrict the use of other NRTLs that are acceptable to the AHJ and standards that meet the specified criteria.

J. SUBMITTALS

Assemble and submit for review shop drawings, material lists, manufacturer product literature for equipment to be furnished, and items requiring coordination between contractors under this contract.

Provide submittals in sufficient detail so as to demonstrate compliance with these Contract Documents and the design concept. Prior to transmitting submittals, verify that the equipment submitted is mutually compatible with and suitable for the intended use, will fit the available space, and maintain manufacturer recommended service clearances. If the size of equipment furnished makes necessary any change in location or configuration, submit a shop drawing showing the proposed layout.

Transmit submittals as early as required to support the project schedule. Allow two weeks for Engineer review time, plus sufficient mailing time via the Architect, plus a duplication of this time for resubmittals, if required. Only resubmit those sections requested for resubmittal.

Submittals shall contain the project name, applicable specification section, submittal data, equipment identifications acronym as used on the drawings, and the Contractor's stamp. The stamp shall certify that the submittal has been checked by the Contractor, complies with the drawings and specifications, and is coordinated with other trades. Manufacturer product literature shall include shop drawings, product data, performance sheets, samples, and other submittals required by this division. Highlight, mark, list, or indicate the materials, performance criteria, and accessories that are being proposed. General product catalog data not specifically noted to be part of the specified product will be rejected and returned without review.

Submittals and shop drawings shall not contain firm name, logo, the seal, or signature of the Engineer. They shall not be copies of the Engineer. If the Contractor desires to use elements of this product, refer to paragraph "Electronic Drawing Files" for procedures to be used.

Separate submittals according to individual specification sections. Illegible submittals will be rejected and returned without review. Catalog data shall be properly bound, identified, indexed and tabbed in a 3-ring binder. Each item or model number shall be clearly marked and accessories indicated. Label the catalog data with the equipment identification acronym or number as used on the drawings and include performance curves, capacities, sizes, weights, materials, finishes, wiring diagrams, electrical requirements and deviations from specified equipment or materials. Mark out inapplicable items. Shop drawings will be returned without review if the above mentioned requirements are not met.

Provide the quantity of submittals required by Division 01. If not indicated and hard-copy sets are provided, submit a minimum of six (6) copies. Refer to Division 01 for acceptance of electronic submittals for this project. For electronic submittals, Contractor shall submit the documents in accordance with the procedures specified in Division 01. Contractor shall notify the Architect and Engineer that the submittals have been posted. If electronic submittal procedures are not defined in Division 01, Contractor shall include the website, user name, and password information needed to access the submittals. For submittals sent by e-mail, Contractor shall copy the designated representatives of the Architect and Engineer. Contractor shall allow for the Engineer review time as specified above in the construction schedule. Contractor shall submit only the documents required to purchase the materials and/or equipment in the submittal.

The checking and subsequent acceptance of submittals by the Engineer and/or Architect shall not relieve the Contractor from responsibility for deviations from the drawings and specifications, errors in dimensions, details, sizes of equipment, or quantities, omissions of components or fittings, coordination of electrical requirements, and not coordinating items with actual building conditions and adjacent work. Contractor shall request and secure written acceptance from the Engineer and Architect prior to implementing any deviation.

K. ELECTRONIC DRAWING FILES

In preparation of shop drawings or record drawings, Contractor may, at his option, obtain electronic drawing files in AutoCAD or DXF format on CD-ROM disk, DVD disk, flash drive, or direct download, as desired, from the Engineer for a shipping and handling fee of \$200 for a drawing set up to 12 sheets and \$15 per sheet for each additional sheet. Contact the Architect for written authorization and Engineer for the necessary agreement form and to specify shipping method and drawing format. In addition to payment, the written authorization from the Architect and release agreement form from the Engineer must be received before electronic drawing files will be sent.

L. RECORD DRAWINGS (AS-BUILT DRAWINGS)

During progress of the work in this division, Contractor shall maintain an accurate record of all changes made during the installation of the system. Upon completion of the work, accurately transfer all record information to three identical sets of the approved shop drawings. Insert one set into each copy of the manual described below.

See Division 01 and General Conditions for additional information.

M. OPERATION AND MAINTENANCE INSTRUCTIONS

During the course of construction, collect and compile a complete brochure of equipment furnished and installed on this project. Include operational and maintenance instructions, manufacturer's catalog sheets, wiring diagrams, parts lists, approved submittals and shop drawings, warranties, and descriptive literature as furnished by the equipment manufacturer. Include an inside cover sheet that lists the project name, date, Owner, Architect, Engineer, General Contractor, Sub-Contractor, and an index of contents.

Submit three copies of literature bound in approved binders with index and tabs separating equipment types to the Architect, for Engineer's review, at the termination of the work. Paper clips, staples, rubber bands, loose-leaf binding, and mailing envelopes are not considered approved binders. Final approval of systems installed under this contract shall be withheld until this equipment brochure is received and deemed complete by the Architect and Engineer. Instruct workmen to save required literature shipped with the equipment itself for inclusion in this brochure.

Refer to Record Drawings as described above.

Include Division 01 for acceptance of electronic manuals for this project. For electronic manuals, refer to paragraph "Submittals" for requirements.

N. WARRANTIES

Warrant each system and each element thereof against all defects due to faulty workmanship, design, or material for a period of 12 months from date of Substantial Completion, unless specific items are noted to carry a longer warranty in these construction documents or manufacturer's standard warranty exceeds 12 months. Remedy all defects occurring within the warranty period(s) as stated in the General Conditions and Division 01.

Warranties shall include labor and material, including travel expenses. Make repairs or replacements without any additional costs to the Owner, and to the satisfaction of the Owner, Architect, and Engineer.

Perform the remedial work promptly, upon written notice from the Engineer or Owner.

Also warrant the following additional items:

- All raceways are free from obstructions, holes, crushing, or breaks of any nature.
- All raceway seals are effective.
- The entire electrical system is free from all short circuits and unwanted open circuits and grounds.

At the time of Substantial Completion, deliver to the Owner all warranties, in writing and properly executed, including a term limits for warranties extending beyond the one year period and any general or other time limit in order to maintain warranty status. Each warranty instrument shall be addressed to the Owner and state the commencement date and term.

2. GENERAL MATERIALS AND INSTALLATION

A. EXCAVATION AND BACKFILLING

Perform excavation and backfill required for installation of underground work under this contract. Trenches shall be of sufficient width. Crib or brace trenches to prevent cave-in or settlement. Do not excavate trenches close to columns and walls of new building without prior consultation with the Architect. Use pumping equipment if required to keep trenches free of water. Backfill trenches in maximum 6-inch layers of well tamped dry earth in a manner to prevent future settlement.

Excavation as specified herein shall be classified as common excavation. Common excavation shall comprise the satisfactory removal and disposition of material of whatever substances and of every description encountered, including rock, if any, within the limits of the work as specified and shown on the drawings. Excavation shall be performed to the lines and grades indicated on the drawings. Dispose of excavated materials that are considered unsuitable for backfill, and surplus of excavated material, which is not required for backfill, all to the satisfaction of the Engineer.

B. COINCIDENTAL DAMAGE

Repair streets, sidewalks, drains, paving, walls, finishes, and other facilities damaged in the course of this Work. Repair materials shall match existing construction. (Repair materials shall generally match existing construction.) Repair work shall meet all requirements of the Owner, local authorities having jurisdiction, and meet the satisfaction of the Architect. Repair work shall be thoroughly first class. [Conform to requirements of Division 02 of this Specifications.]

C. CUTTING AND PATCHING

Conform to the requirements in Division 01. Cut walls, floors, ceilings, and other portions of the facility as required to install work under this division. Obtain permission of the Architect prior to cutting. Do not cut or disturb structural members without prior approval from the Architect. Cut holes as small as possible. Patch walls, floors, and other portions of the facility as required by work under this division. Patching shall match the original material and construction including the fire ratings, if applicable. Repair and refinish areas disturbed by work to the condition of adjoining surfaces in a manner satisfactory to the Architect.

D. ROUGH-IN

Coordinate without delay all roughing-in with other divisions. Conceal all conduit and raceways except in unfinished areas and where otherwise indicated on the drawings.

E. CONCRETE BASES

Provide concrete bases (e.g., housekeeping pads) for equipment where indicated on the drawings and as specified herein. Concrete bases shall have chamfered edges. Size of base shall be a minimum of 4 inches greater than the footprint of the equipment that it is supporting and shall have a minimum height of 3-1/2 inches.

Construct equipment bases of a minimum 28-day, 4000-psi concrete conforming to American Concrete Institute Standard Building Code for Reinforced Concrete (ACI 318) and the latest applicable recommendations of the ACI standard practice manual. Concrete shall be composed of cement conforming to ASTM C 150 Type I, aggregate conforming to ASTM C33, and potable water. Exposed exterior concrete shall contain 5 to 7 percent air entrainment.

Unless otherwise specified or shown on the structural drawings, reinforce equipment bases with No. 4 reinforcing bars conforming to ASTM A615 or 6x6- W2.9 welded wire mesh conforming to ASTM A185. Place reinforcing bars 24 inches on center with a minimum of two bars each direction.

Provide galvanized anchor bolts for equipment placed on concrete bases or on concrete slabs. Anchor bolts size, number, and placement shall be as recommended by the manufacturer of the equipment. In addition to the equipment, submit a shop drawing showing the proposed layout.

F. SUPPORT SYSTEMS

Steel Slotted Support Systems (Slotted Channel): Comply with MFMA-3, factory-fabricated components for field assembly, 12-gauge, 1-5/8-in-hy by 1-5/8-in.

Finishes:

- Stainless Steel: Type 304, per ASTM A240.

Aluminum Slotted Support Systems (Slotted Channel): Comply with MFMA-3, Type 6063-T6, per ASTM B202, factory-fabricated components for field assembly, 12-gauge, 1-5/8-in-hy by 1-5/8-in.

Manufacturers: Cooper B-Line, ERICO International, Hilli, Power-Strut, Thomas and Betts, or Unistrut.

Field Fabrication:

Where field cutting of standard lengths of channel are required, make cuts straight and perpendicular to manufactured surfaces.

For field-cut or damaged surfaces of coated channels, dress cut ends, damaged surfaces, or both, with an abrasive material (e.g., file, grinding stone, or similar) and cleanser to remove oils, rust, sharp edges, and shards.

For channel with a factory-applied coating, re-finish cut edges with a coating compatible with the factory finish and as recommended by the manufacturer (e.g., manufacturer's touch-up paint or zinc-rich cold-galvanizing compound, as applicable).

G. EQUIPMENT FURNISHED BY OTHERS

Provide necessary equipment and accessories that are not provided by the equipment supplier or Owner to complete installation of equipment furnished by others in locations as indicated on the drawings, specified herein, or both. Equipment and accessories not provided by the equipment supplier may, but need not be limited to, flexible cords and plugs as required for proper operation of the complete system, in accordance with the manufacturers' instructions.

Contractor shall be responsible for correct rough-in dimensions, and verify them with Architect and/or equipment supplier prior to rough-in and service installations.

H. SYSTEM TESTING AND ADJUSTING

Adjust, align, and test all electrical equipment on this project provided under this division and all electrical equipment furnished by others for installation or wiring under this division for proper operation.

Test all systems and equipment according to the requirements in NETA ATS (latest edition) and all additional requirements specified in following sections.

Maintain the following on the project premises at all times: a true RMS reading voltmeter, a true RMS reading ammeter, and a megohmmeter insulation resistance tester. Provide test data readings as requested or as required by the Engineer.

I. EQUIPMENT IDENTIFICATION

Provide equipment identification nameplates on all electrical equipment enclosures, transformers, disconnect switches.

Nameplates:

- Engraved, contrasting color, three-layer, laminated plastic, indicating the name of the equipment, load, or circuit as designated on the drawings and in the specifications.

Attachment method shall be acceptable to the manufacturers of the equipment to which the nameplates are being applied.

Nameplate Color:

- Black background with white letters for Normal Power; Letter height: 3/8-inch minimum.

J. SYSTEM START UP

Perform the following prior to starting up the electrical systems:

- Check all components and devices and lubricate items accordingly.
- Tighten screws and bolts for connectors and terminals according to manufacturer's published torque-lightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- Adjust taps on each transformer for rated secondary voltage when the transformer is at minimum load.

- Check and record building's service entrance voltage, grounding conditions, grounding resistance, and proper phasing.
- Replace all burned-out lamps and lamps used for temporary construction lighting in permanent light fixtures.
- After all systems have been inspected and adjusted, confirm all operating features required by the drawings and specifications and make final adjustments as necessary.

END OF SECTION 26

Division 26: BASIC ELECTRICAL MATERIALS AND METHODS

1. RACEWAYS

A. NON-METALLIC CONDUIT AND TUBING

Rigid Nonmetallic Conduit (RNC): Schedule 40 PVC, 90 deg C rated, NEMA TC-2, UL 651

Fittings: NEMA TC 3, TC 6, UL 651, compatible with conduit/tubing type and material, NRTL listed.

Manufacturers: AFC Cable, American International, Anamet Electrical, Amco, Cantex, CertainTeed, Condux International, Elecsys, Electri-Flex, Larson and Sessions, Manhattan/CDT/Cole-Flex, Prime Conduit, Raco, Spiraduct, Superflex Ltd, or Thomas and Betts.

2. RACEWAY INSTALLATION

A. GENERAL RACEWAY INSTALLATION REQUIREMENTS

Install raceways parallel and perpendicular to building lines.

Install raceways to requirements of structure, to requirements of all other work on the project, and to clear all openings, depressions, pipes, ducts, reinforcing steel, and other immovable obstacles.

Install raceways set in forms for concrete structure in such a manner that installation will not affect the strength of the structure.

Except where approved in writing by the Engineer, install no raceway in a slab-on-grade. Locate raceway below granular fill below slabs-on-grade.

Install raceways continuous between connections to outlets, boxes, and cabinets with a minimum possible number of bends and not more than the equivalent of four 90-degree bends between connections. Use manufactured elbows for all 45- and 90-degree bends, unless approved by the Engineer in advance. Make other bends smooth and even and without flattening raceway or flaking galvanizing or enamel. Radii of bends shall be as long as possible and never shorter than the corresponding trade elbow.

Use long radius elbows for all underground installations, where necessary, or where otherwise indicated.

Securely fasten raceways in place with approved straps, hangers, and steel supports as required. Attach raceway supports to the building structure. Hang single raceways for feeders with malleable split ring hangers with rod and turnbuckle suspension from inserts spaced not over 10 feet apart in construction above ceilings. Clamp groups of horizontal feeder raceways to steel channels that are suspended from inserts spaced not over 10 feet apart in construction above. Securely clamp vertical feeder raceways to structural steel members attached to structure. Install cable clamps for support of vertical feeders where required. Add raceway supports within 12 inches of all bends, on both sides of the bends. Do not support raceways from suspended ceiling components.

Ream raceway ends, thoroughly clean raceways before installation, and keep clean after installation. Plug or cover open ends and fails as required to keep raceways clean during construction and fish all raceways clear of obstructions before pulling conductor wires. Provide raceways of ample size for pulling of wire, not smaller than code requirements and not less than 1/2-inch in size, unless indicated otherwise on Drawings. Homensurs containing more than one branch circuit shall not be less than 3/4-inch in size.

Protect all raceway installations against damage during construction. Repair all raceways damaged or moved out of line after roughing-in to meet Engineer's approval without additional cost to the Owner.

Align and install true and plumb all raceway terminations at panelboards, switchboards, motor control equipment, and junction boxes.

Install approved expansion/deflection fittings where raceways pass through (if embedded) or across (if exposed) expansion joints, and when using RNC or RAC in exposed environments in accordance with NFPA 70 and expansion/contraction properties of RNC or RAC.

Install a pull wire in each empty raceway that is left for installation of conductors or cables under other divisions or contracts. Use polypropylene or other plastic that does not suffer for loss of tensile strength. Leave at least 24 inches of slack at each end of pull wire.

Make all joints and connections in a manner that will ensure mechanical strength and electrical continuity.

B. ABOVE GROUND RACEWAY USE:

Install all circular raceways concealed above suspended ceilings or concealed in walls or floors wherever possible and not otherwise indicated. Provide GRS for all conduits exposed to weather or other hazardous conditions.

Unless noted otherwise, all other raceways may be EMT where approved by local code. Use compression type fittings for EMT, with all fittings NRTL listed for the environment in which they are used. Unless noted otherwise, set-screw type fittings are not allowed.

C. UNDERGROUND RACEWAY USE:

Provide GRS installed below grade with a corrosion-resistant bonded-plastic or approved mastic coating. This shall include the 90-degree elbow below grade and the entire vertical transition to above grade.

RNC conduit may be used underground where permitted by local code and where not specifically restricted by these documents. When used, provide plastic-coated GRS, as specified above, for all bends greater than 30 degrees, including the 90-degree elbows below grade and the entire vertical risers for transitions from below to above grade or above slab.

D. EQUIPMENT CONNECTIONS

Use FMC for final connection to each motor, transformer, and any device that would otherwise transmit motion, vibration, or noise. Use LPMC where exposed to liquids, vapors, or sunlight/Provide all FMC and LPMC with an insulated bonding conductor.

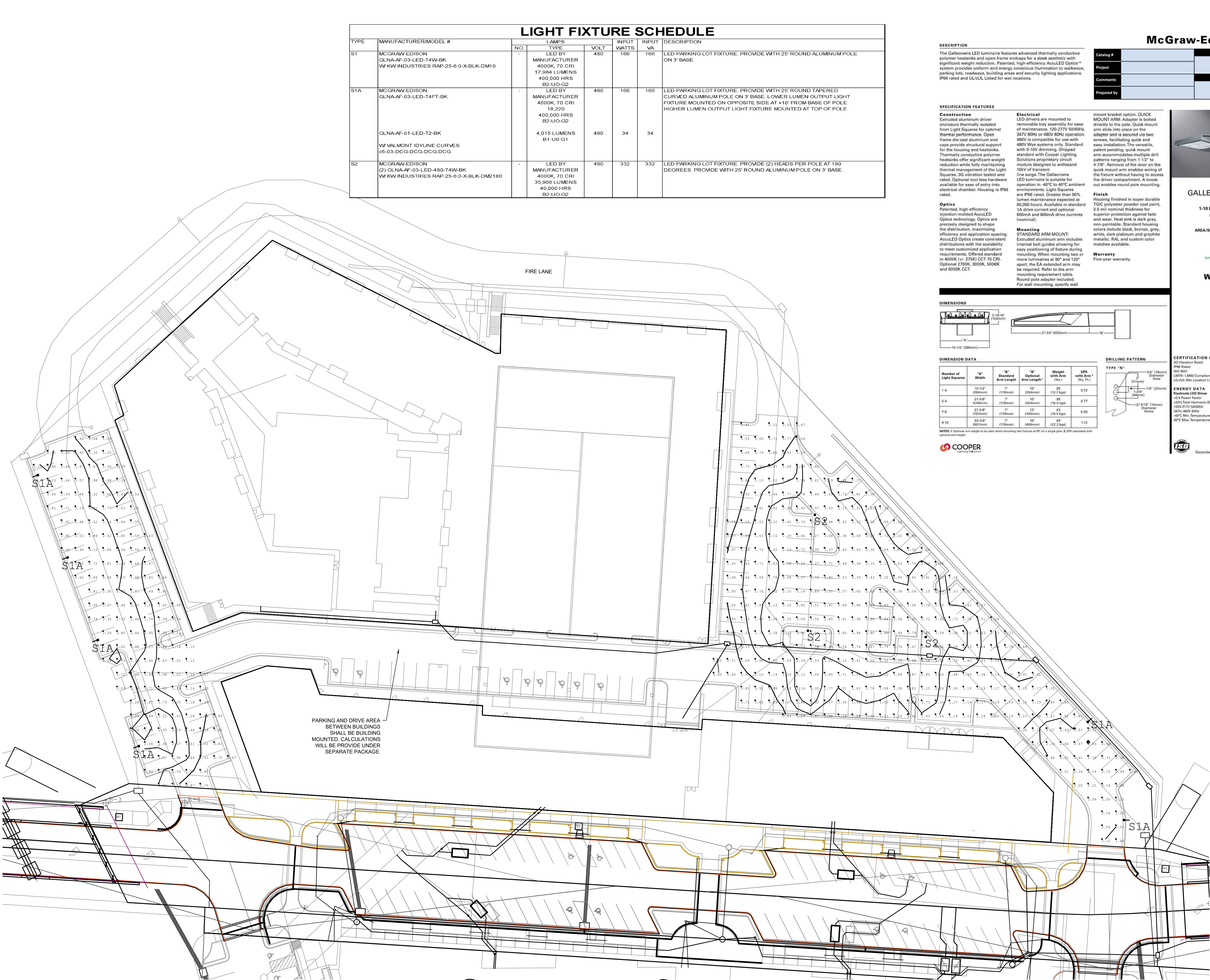
3. BUSHINGS AND LOCKNUTS

Rigidly terminate conduits entering sheet metal enclosures to the enclosure with a bushing and locknut on the inside and a locknut or an approved hub on the outside. Conduit shall enter the enclosure squarely.

Provide bushings and locknuts made of galvanized malleable iron with sharp, clean

J:\Kansas City\2018\180004412 Paragon Star Development - Lee's Summit - MO\002 - Paragon Site Development\Elec\180004412 NV E300 - Photometrics.dwg, 1/21/2022 12:34:02 AM
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MARCUS PERRY
0.179:1



1 SITE LIGHTING PHOTOMETRICS
SCALE: 1" = 32'

| LIGHT FIXTURE SCHEDULE | | | | | | | |
|------------------------|---|-----|--|------|----------------|-------------|--|
| TYPE | MANUFACTURER/MODEL # | NO. | LAMPS TYPE | VOLT | INPUT WATTS | INPUT VA | DESCRIPTION |
| S1 | McGraw-Edison GLNA-AF-03-LED-T4W-BK W/ KW INDUSTRIES RAP-25-6.0-X-BLK-DM10 | - | LED BY MANUFACTURER 4000K, 70 CRI 17,984 LUMENS 400,000 HRS B2-UO-C2 | 480 | 166 | 166 | LED PARKING LOT FIXTURE, PROVIDE WITH 25' ROUND ALUMINUM POLE ON 3' BASE. |
| S1A | McGraw-Edison GLNA-AF-03-LED-T4FT-BK GLNA-AF-01-LED-T2-BK W/ VALMONT IDYLINE CURVES c5-03-DCG-DCG-DCG-DCG | - | LED BY MANUFACTURER 4000K, 70 CRI 18,220 400,000 HRS B2-UO-C2 4,015 LUMENS B1-UO-G1 | 480 | 166 | 166 | LED PARKING LOT FIXTURE, PROVIDE WITH 25' ROUND TAPERED CURVED ALUMINUM POLE ON 3' BASE. LOWER LUMEN OUTPUT LIGHT FIXTURE MOUNTED ON OPPOSITE SIDE AT 4'10" FROM BASE OF POLE. HIGHER LUMEN OUTPUT LIGHT FIXTURE MOUNTED AT TOP OF POLE. |
| S2 | McGraw-Edison (2) GLNA-AF-03-LED-480-T4W-BK W/ KW INDUSTRIES RAP-25-6.0-X-BLK-DM2180 | - | LED BY MANUFACTURER 4000K, 70 CRI 35,968 LUMENS 40,000 HRS B2-UO-C2 | 480 | 332 | 332 | LED PARKING LOT FIXTURE, PROVIDE (2) HEADS PER POLE AT 180 DEGREES. PROVIDE WITH 25' ROUND ALUMINUM POLE ON 3' BASE. |

DESCRIPTION

The Galleonaire LED luminaire features advanced thermally conductive polymer heatsinks and open frame endcaps for a sleek aesthetic with significant weight reduction. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL90L Listed for wet locations.

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Open frame die-cast aluminum end caps provide structural support for the housing and heatsinks. Thermally conductive polymer heatsinks offer significant weight reduction while fully maintaining thermal management of the Light Squares. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection molded AccuLED Optics technology. Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 2700K, 3000K, 5000K and 6000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 15kV of transient line surges. The Galleonaire LED luminaire is suitable for operation in -40°C to 40°C ambient environments. Light Squares are IP66 rated. Greater than 50% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA and 800mA drive currents (nominal).

Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall

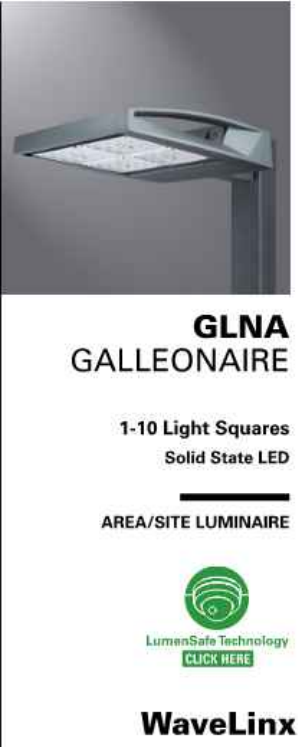
mount bracket option. QUICK MOUNT ARM Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is dark gray, non-paintable. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

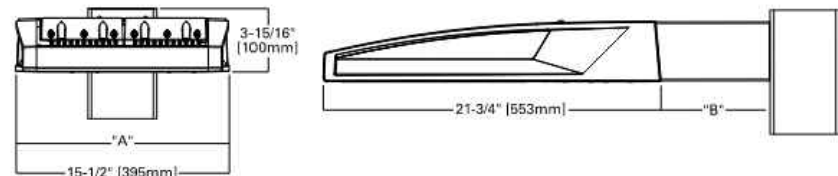
Warranty
Five-year warranty.

McGraw-Edison

| Catalog # | Type |
|-------------|------|
| Project | Date |
| Comments | |
| Prepared by | |



DIMENSIONS



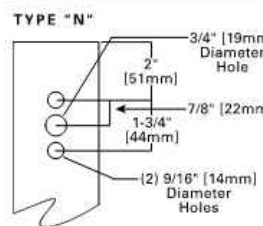
DIMENSION DATA

| Number of Light Squares | 1/4" Width | 3/8" Standard Arm Length | 3/8" Optional Arm Length | Weight with Arm (lbs.) | EPA with Arm (Sq. Ft.) |
|-------------------------|-----------------|--------------------------|--------------------------|------------------------|------------------------|
| 1-4 | 16-1/2" (394mm) | 7" (178mm) | 10" (254mm) | 20 (12.7 kg) | 0.72 |
| 5-6 | 21-5/8" (548mm) | 7" (178mm) | 10" (254mm) | 30 (16.3 kg) | 0.77 |
| 7-8 | 27-5/8" (702mm) | 7" (178mm) | 13" (330mm) | 43 (19.5 kg) | 0.95 |
| 9-10 | 32-3/4" (837mm) | 7" (178mm) | 16" (406mm) | 61 (22.2 kg) | 1.13 |

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with additional arm length.



DRILLING PATTERN



CERTIFICATION DATA

3G Vibration Rated
IP66 Rated
400,000 Hrs
LM79 / LM80 Compliant
UL90L Wet Location Listed

ENERGY DATA
Electronic LED Driver
+0.3 Power Factor
+20% Total Harmonic Distortion
120V/277V 50/60Hz
-40V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY SUBMITTAL ANDREA C. MULVANY LICENSE # PE-2013039892

IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

DRAWING TITLE:

SITE LIGHTING
PHOTOMETRICS

JOB NO: 1249

SCALE:

DATE: 01.21.2022

DRAWN BY: MAP

SHEET NO:

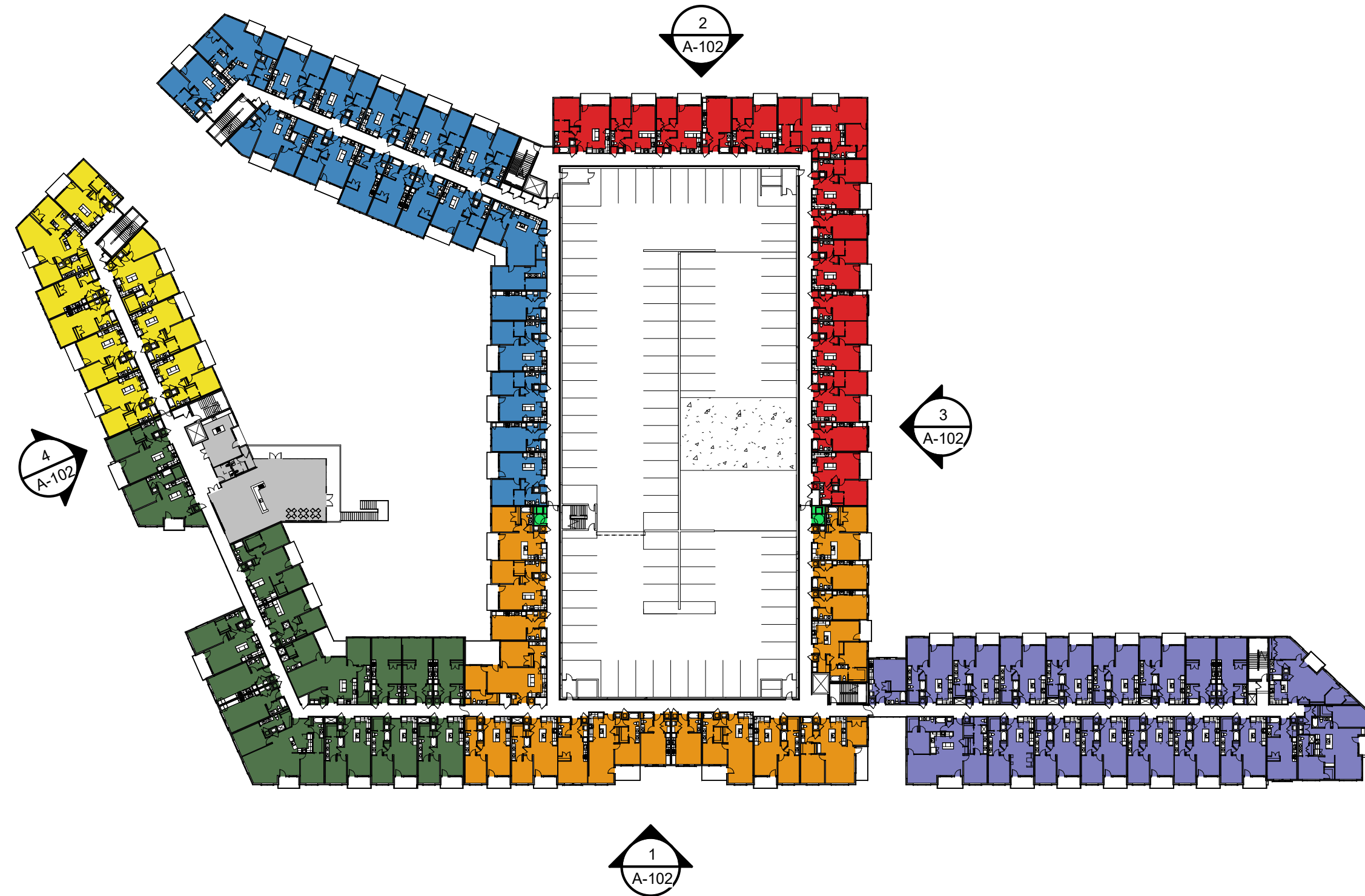
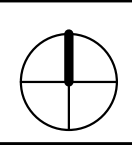
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HA:Paragon Star V7_Multifamily_Rev14 Families v181.CCK_24436_FDP-VILLAGE.dwg 11/25/2015 9:09:24 AM EFOSTER 0.384921
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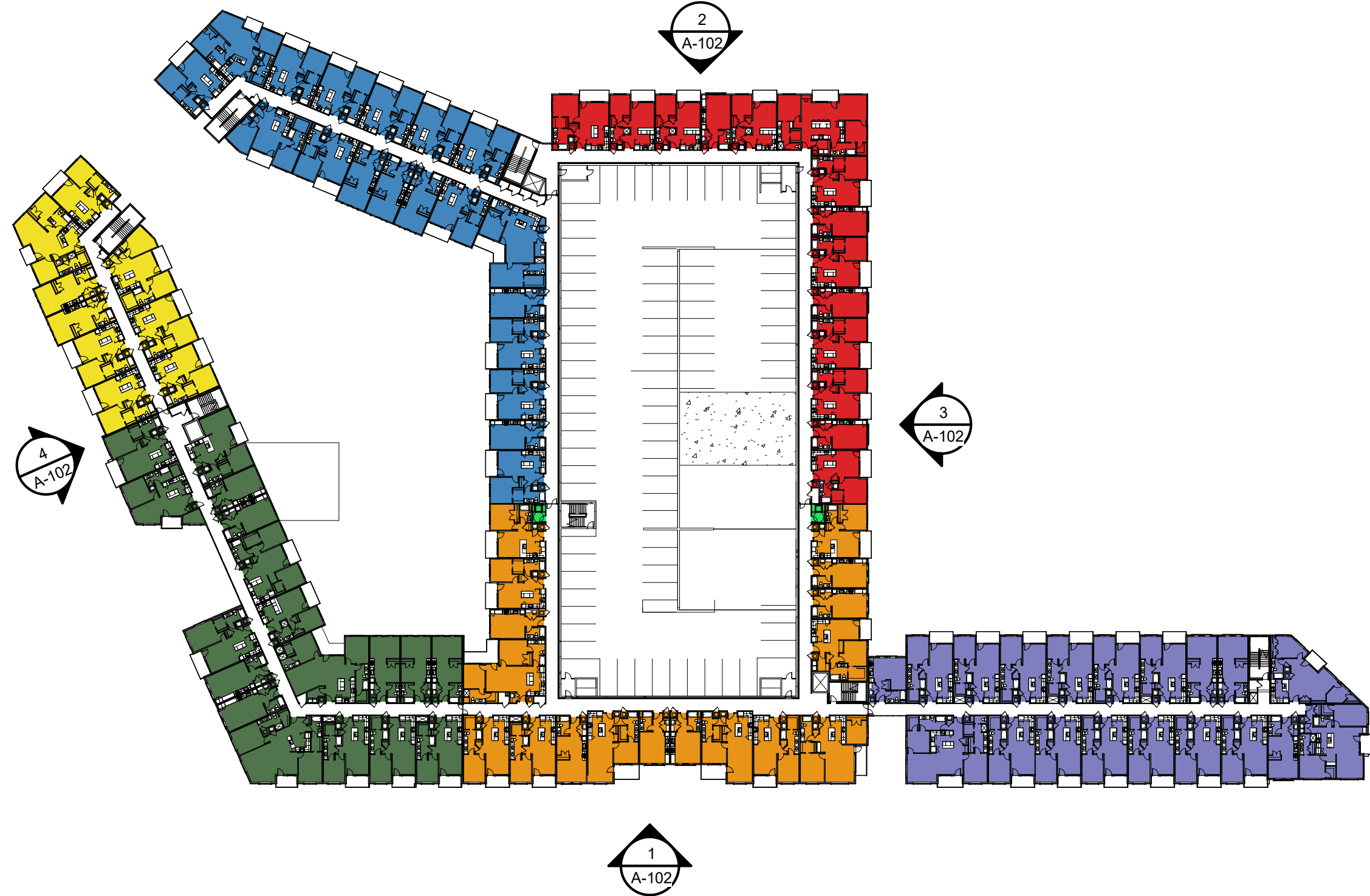
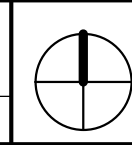
5 FLOOR PLAN - 5TH FLOOR

A-101 SCALE : 1" = 60'-0"



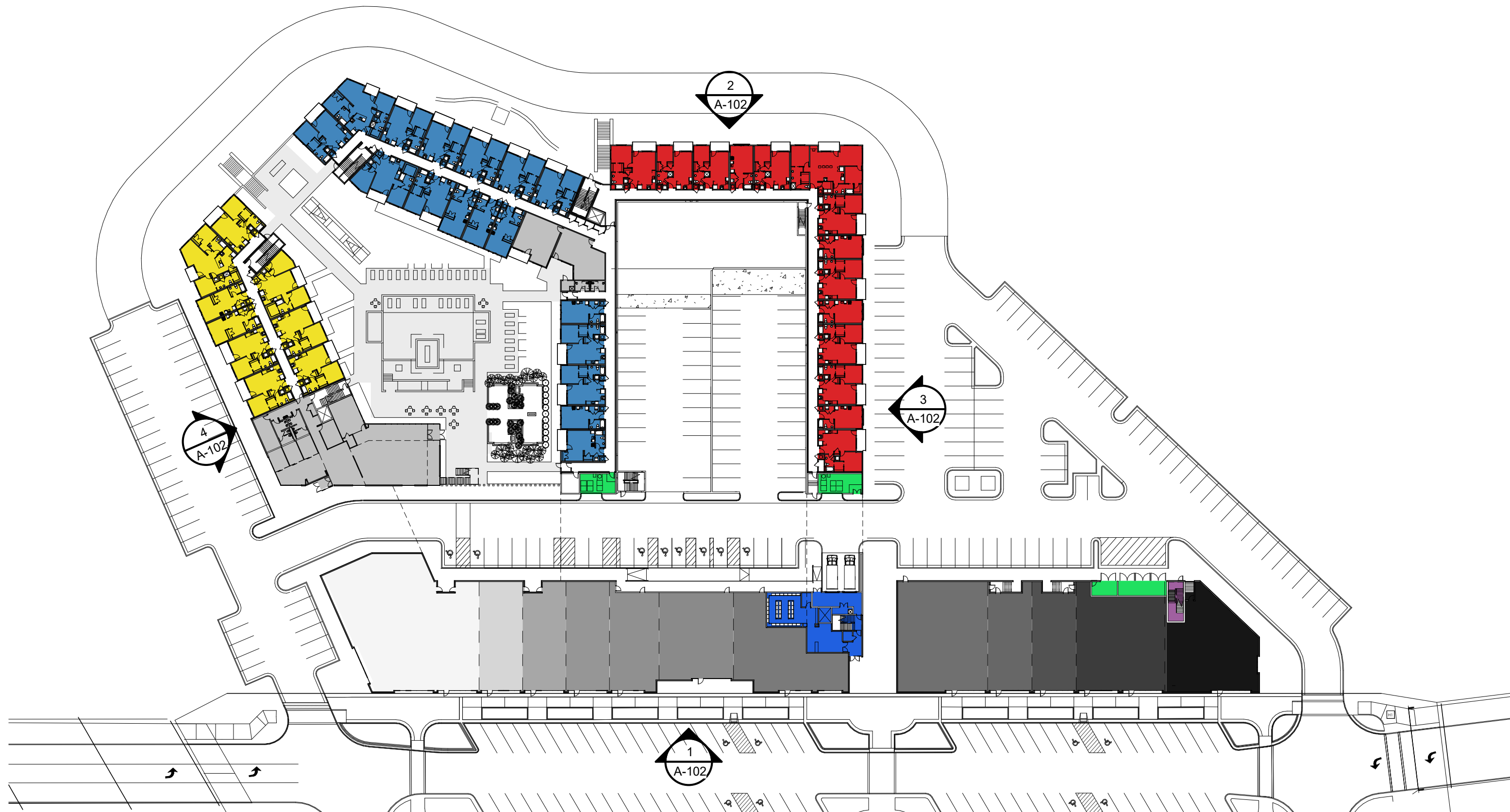
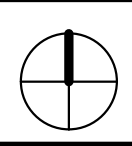
2 FLOOR PLAN - 2ND FLOOR

A-101 SCALE : 1" = 60'-0"



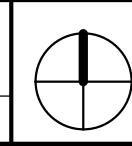
3 FLOOR PLAN - 3RD & 4TH FLOORS

A-101 SCALE : 1" = 60'-0"



1 FLOOR PLAN - 1ST FLOOR

A-101 SCALE : 1" = 60'-0"



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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

FLOOR PLANS

JOB NO: 1249

SCALE:

DATE: 01/24/22

DRAWN BY:

SHEET NO:

A-101

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PROJECT:

Paragon Star North Village
3200 NW Paragon Parkway, Lee's Summit, MO 64081

Final Development Plan

ISSUE:

PROFESSIONAL SEAL:

DRAWING TITLE:

BUILDING
ELEVATIONS

JOB NO: 1249

SCALE:

DATE: 01/26/22

DRAWN BY:

SHEET NO:

A-102

4 WEST ELEVATION

A-102 SCALE : 1" = 20'-0"



3 EAST ELEVATION

A-102 SCALE : 1" = 20'-0"



1 SOUTH ELEVATION - PARAGON PARKWAY

A-102 SCALE : 1" = 20'-0"

EXT. FINISH LEGEND

| | |
|--------------------------------|--|
| CS-1: | CEMENTITIOUS SIDING COLOR: COLOR 1, TBD |
| CS-2: | CEMENTITIOUS SIDING COLOR: COLOR 2, TBD |
| ST-1: | BORAL HEWN STONE CULTURED STONE VENEER COLOR: ARCTIC |
| STU-1: | STUCCO COLOR: COLOR-1, TBD |
| WD-1: | WOOD/CEMENTITIOUS SIDING STAIN: COLOR 1, TBD |
| ARCHITECTURAL ELEMENTS: | |
| CANOPY-1: | METAL BOX FRAME CANOPY, PAINT FINISH |
| CANOPY-2: | WOOD OR WOOD-LOOK OPEN STRUCTURE CANOPY |
| STOREFRONT/WINDOWS: | |
| STOREFRONT-1: | ALUMINUM STOREFRONT, ANODIZED BLACK; LOW-E GLAZING |
| WINDOW-1: | VINYL WINDOWS, BLACK FINISH, LOW-E GLAZING |
| RAILINGS | |
| RAILING-1: | METAL RAILING |

2 NORTH ELEVATION

A-102 SCALE : 1" = 20'-0"

