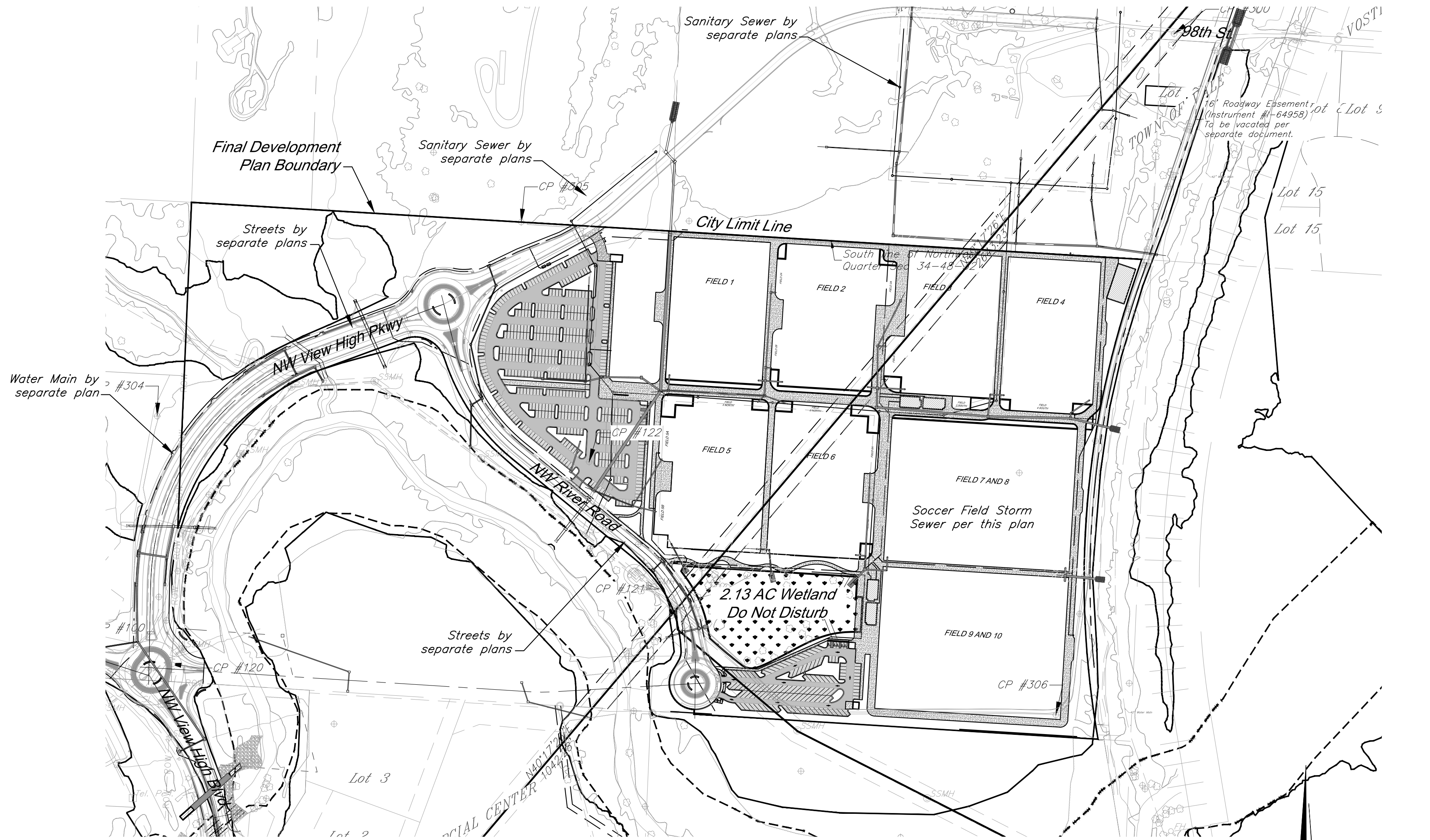


C:\12720\Civil_3D\Production Drawings\Field Storm Plans\12720C0200.dwg Layout: 1 General Layout -- Thursday, October 17, 2019, 3:11pm -- Copyright 2019, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000039 The PROFESSIONAL SEAL SIGNATURE, AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMING RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE. AND DISCLAIMS JURISDICTION TO SECTION 32.411. REMOVAL OF ANY PART OF THIS PROJECT TO WHICH THE PAGE REFERS.



Boundary Description:

All that part of the Northwest Quarter of Section 34, Township 48 North, Range 32 West, of the 5th P.M., and all of GRAHAM COMMERCIAL CENTER, a subdivision in the in the City of Lee's Summit, Jackson County, Missouri, being more particularly described as follows:

BEGINNING at the Northwest corner of said Northwest Quarter of Section 34; thence South 86°33'45" East, along the North line of said Northwest Quarter, a distance of 2611.91 feet, to a point on the Westerly Right-of-Way line of Union Pacific Railroad, as now established; thence South 18°46'13" West, departing said North line, along said Westerly Right-of-Way line, a distance of 76.95 feet, to a point of curvature; thence Southwesterly and Southeasterly, continuing along said Westerly Right-of-Way line, along a curve to the left, having a radius of 2508.01 feet, and a central angle of 28°06'45", a distance of 1230.57 feet, to a point of tangency; thence South 09°20'32" East, continuing along said Westerly Right-of-Way line, a distance of 30.31 feet, to a point on the South line of the North half of said Northwest Quarter; thence South 86°26'21" East, continuing along said Westerly Right-of-Way line, and along said South line of the North half of the Northwest Quarter, a distance of 16.41 feet; thence South 09°20'32" East, departing said South line of the North half of the Northwest Quarter, continuing along said Westerly Right-of-Way line, a distance of 354.98 feet, to a point on the East line of said Northwest Quarter; thence South 02°29'17" West, continuing along said Westerly Right-of-Way line, and along said East line of the Northwest Quarter, a distance of 468.48 feet, to a point on the North Right-of-Way line of Interstate 470, as now established; thence North 85°05'37" West, departing said Westerly Right-of-Way line, along said North Right-of-Way line of Interstate 470, a distance of 899.87 feet; thence North 75°10'03" West, continuing along said North Right-of-Way line, a distance of 203.04 feet; thence South 77°15'22" West, continuing along said North Right-of-Way line, a distance of 228.93 feet, to a point on the East line of the Southwest Quarter of said Northwest Quarter, said point also being the Southeast corner of said GRAHAM COMMERCIAL CENTER; thence continuing South 77°15'22" West, continuing along said North Right-of-Way line, and along the South line of said subdivision, a distance of 1.94 feet; thence South 88°33'58" West, continuing along said North Right-of-Way line, and along said South line of said subdivision, a distance of 181.11 feet; thence North 85°01'31" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 100.18 feet; thence North 60°06'43" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 165.44 feet; thence North 85°08'16" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 199.96 feet; thence South 80°28'02" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 97.23 feet; thence North 69°50'05" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 342.03 feet, to the Southwest corner of said subdivision; thence North 30°28'52" West, continuing along said North Right-of-Way line, and along the West line of said subdivision, a distance of 87.88 feet; thence North 07°21'08" East, continuing along said North Right-of-Way line and it's transition to the East Right-of-Way line of View High Drive, as now established, and said West line of said subdivision, a distance of 106.53 feet; thence North 20°25'39" East, departing said West line of said subdivision, continuing along said East Right-of-Way line of View High Drive, a distance of 185.39 feet; thence North 45°30'34" West, continuing along said East Right-of-Way line, a distance of 129.40 feet; thence North 12°40'32" West, continuing along said East Right-of-Way line, a distance of 278.96 feet, to a point on said South line of the North half of the Northwest Quarter; thence North 86°26'21" West, continuing along said East Right-of-Way line, and along said South line of the North half of the Northwest Quarter, a distance of 130.00 feet, to the Southwest corner of said North half of the Northwest Quarter; thence North 02°25'47" East, along the West line of said Northwest Quarter, a distance of 1316.45 feet, to the POINT OF BEGINNING, containing 5,217,462.56 square feet or 119.78 acres, more or less.

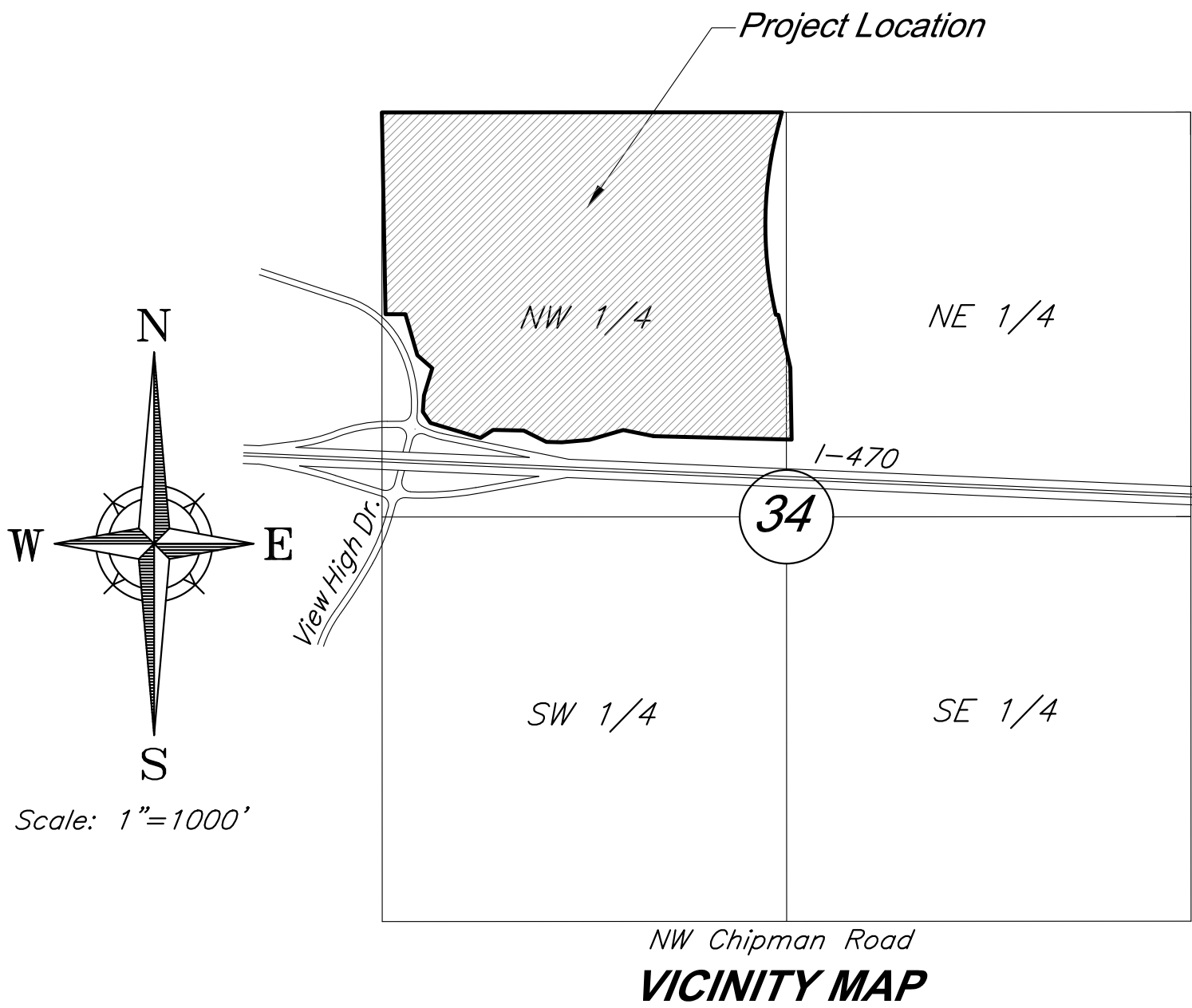
See Sheet C-101 for dimensioned boundary.

Project Benchmark:

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

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.



General Notes:

- All Construction shall conform to the City of Lee's Summit Technical Specifications in effect at the time of the City's approval date shown on the approved plans and incorporated herein by reference.
- All traffic control shall be the responsibility of the Contractor and shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
- Property Corners and/or Section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the state of Missouri, at the Contractor's expense.
- The Contractor shall be responsible for the restoration of the Right-of-Way and for damaged improvements such as curbs, driveways, sidewalks, street light and traffic signal junction boxes, traffic signal equipment, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest City standards and to the City's satisfaction.
- All work shall be confined within easements and/or construction limits as shown on the plans.
- The Contractor shall, prior to the commencement of work, investigate surface and subsurface conditions to be encountered across the site and notify the Engineer if any discrepancies or changed conditions are noted.
- All trash and debris identified on site shall be properly handled and disposed of in accordance with state of Missouri regulations.
- All measurements on these plans are horizontal distances, not slope distances.
- This project will include numerous activities occurring on site including storm sewer, sanitary sewer, grading, erosion control, etc. Contractor shall coordinate his work with other contractors on site.
- Initial construction staking will be performed by GBA - Refer to Bid Documents.
- All concrete shall be KCMMB 4,000 psi.
- Oil / Gas Wells are not present on site per Missouri Department of Natural Resources.

Permitting:

- Contractor is responsible for obtaining all required permits, paying all fees, and for otherwise complying with all applicable regulations governing the work.
- No work shall be completed within the existing floodway until the CLOMR has been issued.
- The U.S. Corps of Engineers Section 404 permit has been issued for this project. All work shall adhere to the terms and conditions of this permit, including the preservation of 2.13 Acres of the existing wetland.
- All work within KCMO city limits shall adhere to KCMO Site disturbance requirements.

Erosion Control:

- The Contractor is responsible for providing erosion and sediment control BMP's to prevent sediment from reaching paved areas, storm sewer systems, drainage courses, and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the Right-Of-Way, or adjacent properties to original or better condition.
- Contractor shall ensure that all construction shall conform to the requirements of the Stormwater Pollution Prevention Plan (SWPPP) a copy of which shall be maintained and updated on site by the Contractor.
- The Contractor shall sod all disturbed areas within the Public Street Right-of-Way unless otherwise noted in the plans.
- No trees shall be damaged or removed without prior authorization from owner unless otherwise shown on this plan.

Earthwork:

- Slopes shall be constructed to a maximum slope of 3:1 (Horiz:Vert) unless specifically noted otherwise in the referenced Geotechnical reports.
- Refer to "Geotechnical Engineering Report - Paragon Star Roadways and Borrow Site" Dated December 8, 2016 - along with Addendum #1 dated 1/4/17, and "Geotechnical Engineering Report - Soccer Fields" Dated July 27, 2016 prepared by Terracon Consultants, Inc. for grading recommendations and boring logs. All earthwork shall conform to the recommendations of the Reports.
- Unless otherwise noted, all spot elevations and contours are shown to "finish" grade surface.
- All temporary slopes and excavations should conform to Occupational Safety and Health Administration (OSHA) standards for the Construction Industry (29 CFR part 1026, subpart P).
- Earthwork for this phase of development is intended to balance. Contractor to cut only enough fill material from the borrow source at the north end of the project as required to accomplish the fills shown on this plan set.
- All Permanent seeded shall be dressed with 12" topsoil and permanent seed. All other disturbed areas shall be seeded with the temporary seed mix.
- Earthwork quantities shown on the plans assume 15% shrinkage for all fill material. The Contractor shall perform the fill to achieve the grades shown on the drawings. The determination of the actual adjustment of fill required due to shrink/swell of various materials shall be the responsibility of the Contractor.

Utility:

- All Manholes, Catch Basins, Utility Valves, Meter Pits, and other utility equipment shall be adjusted or rebuilt to grade as required.
- Prior to beginning work, the Contractor shall notify all utility companies who have facilities in the vicinity of the project area of the work to be performed.

Storm Sewer:

- All RCP shall be Class III.
- All HDPE Pipe shall be ADS N-12 or equivalent. Pipe shall meet AASHTO M294.
- Pipe Lengths are called out from center of structure to center of structure.
- Drainage across the project site during construction shall be the Contractor's responsibility. Surface drainage shall be controlled to reduce or prevent the flow of surface water onto adjacent grounds. Contractor shall control downstream erosion and silting during construction. Flexibility is given to the Contractor to make minor grading revisions along roads or between building pads to improve drainage during construction, with prior approval of the engineer.
- Prior to ordering precast storm sewer structures, Contractor shall provide shop drawings to the Engineer for review and approval.

Utility Contacts

Sanitary Sewers	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 email: jeff.thorn@cityofLS.net	Gas	Mr. Donnie Richards Missouri Gas Energy 7500 E 35th Terrace Kansas City, MO 64129 (816) 472-9464 Fax (816) 472-3488 email: donnie.richards@sug.com
	Mr. Jeff Shook Little Blue Valley Sewer District 21101 East 78 Highway Independence, MO 64057 (816) 285-1522 email: jshook@lbvdsd.net	Cable Television	Mr. Greg Thomas Time Warner Cable 8221 W. 119th Street Overland Park, KS 66213 (913) 643-1950 email: greg.thomas@twcable.com
	Kansas City, MO Public Works Department (816) 513-2600	Telephone	Ms. Glenda Charles AT&T 1425 Oak Street Kansas City, MO 64106 (816) 365-1669 Fax (816) 275-1109 email: gc6954@att.com
Water	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 (816) 969-1922 email: jeff.thorn@cityofLS.net	Electric Service	Mr. Nathan Michael Kansas City Power & Light P.O. Box 418679 Kansas City, MO 64141 (816) 220-5210 Fax (816) 245-3623 email: Nathan.Michael@kcpl.com
Missouri One Call System 1-800-344-7483 (DIG-RITE)			

GBA PN 12720.09

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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

General Layout

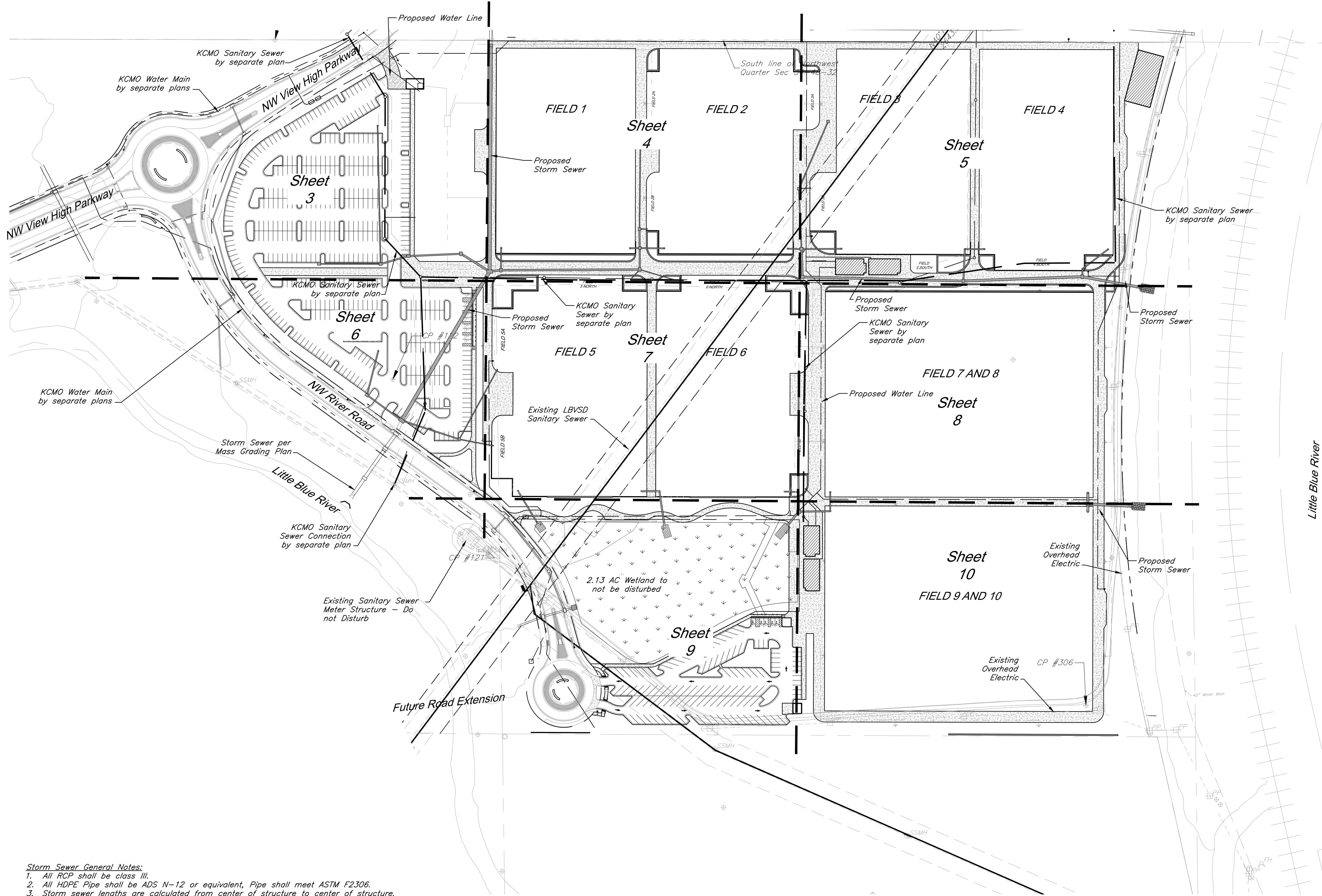
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SCALE:

DATE: 10.03.2019 DRAWN BY: GBA

SHEET NO:

G:\12720\Civil\3D\Production Drawings\Field Storm Plans\12720C0901.dwg Layout: 2 Utility Plan -- Thursday October 17, 2019, 3:12pm -- Copyright 2019, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059 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 THE PAGE REFERS.



Storm Sewer General Notes:

1. All RCP shall be class III.
2. All HDPE Pipe shall be ADS N-12 or equivalent, Pipe shall meet ASTM F2306.
3. Storm sewer lengths are calculated from center of structure to center of structure.
4. All pipe connections to Inlets shall occur at center of structure wall unless specifically noted otherwise.
5. All work shall conform to City of Lee's Summit, MO standards.
6. Precast structures shall be constructed with KCMMB 4,000 psi concrete. Shop drawings shall be submitted to the Engineer for review prior to casting.
7. All in grade inlets shall match adjacent slope.
8. Drainage across the project site during construction shall be the Contractor's responsibility. Surface drainage shall be controlled to reduce or prevent the flow of surface water onto adjacent grounds. Contractor shall control downstream erosion and silting during construction. Flexibility is given to the Contractor to make minor grading revisions along roads or between building pads to improve drainage during construction, with prior approval of the engineer.
9. See Sheets 19-24 for construction details.

Utility Legend

	Cable TV Pedestal		Water Meter
	Power Pole		Fiber Optic Line
	Guy Anchor		Fire Protection Line
	Electrical Manhole		Gas Line
	Electrical Transformer		Over Head Electric
	Gas Meter		Over Head Telephone
	Curb Inlet		Over Head Cable TV
	Sanitary Sewer Manhole		Property Line
	Sanitary Cleanout		Right-of-Way Line
	Light Pole		Existing Sanitary Sewer Line
	Boring Hole		Existing Underground Electric
	Sign		Existing Underground Telephone
	Telephone Pedestal		Existing Underground Cable TV
	Traffic Signal Post		Existing Water Line
	Traffic Manhole		Proposed Storm Sewer
	Fire Hydrant		Existing Storm Sewer
			Proposed Sanitary Sewer Line

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

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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

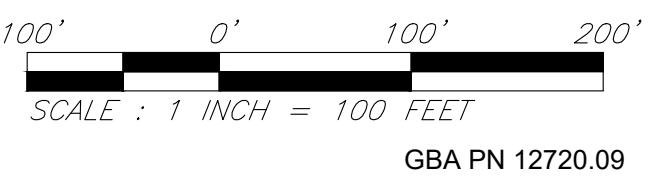
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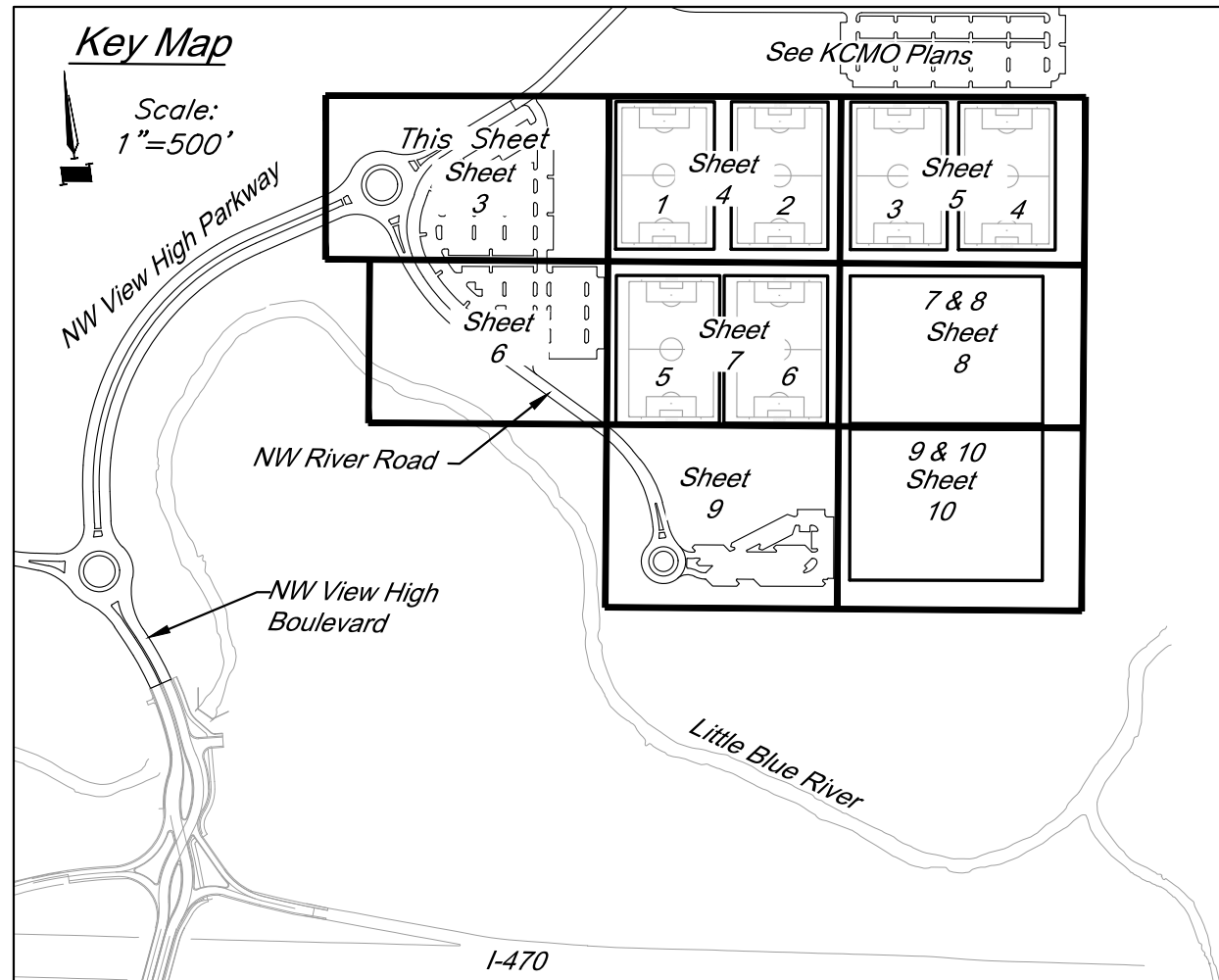
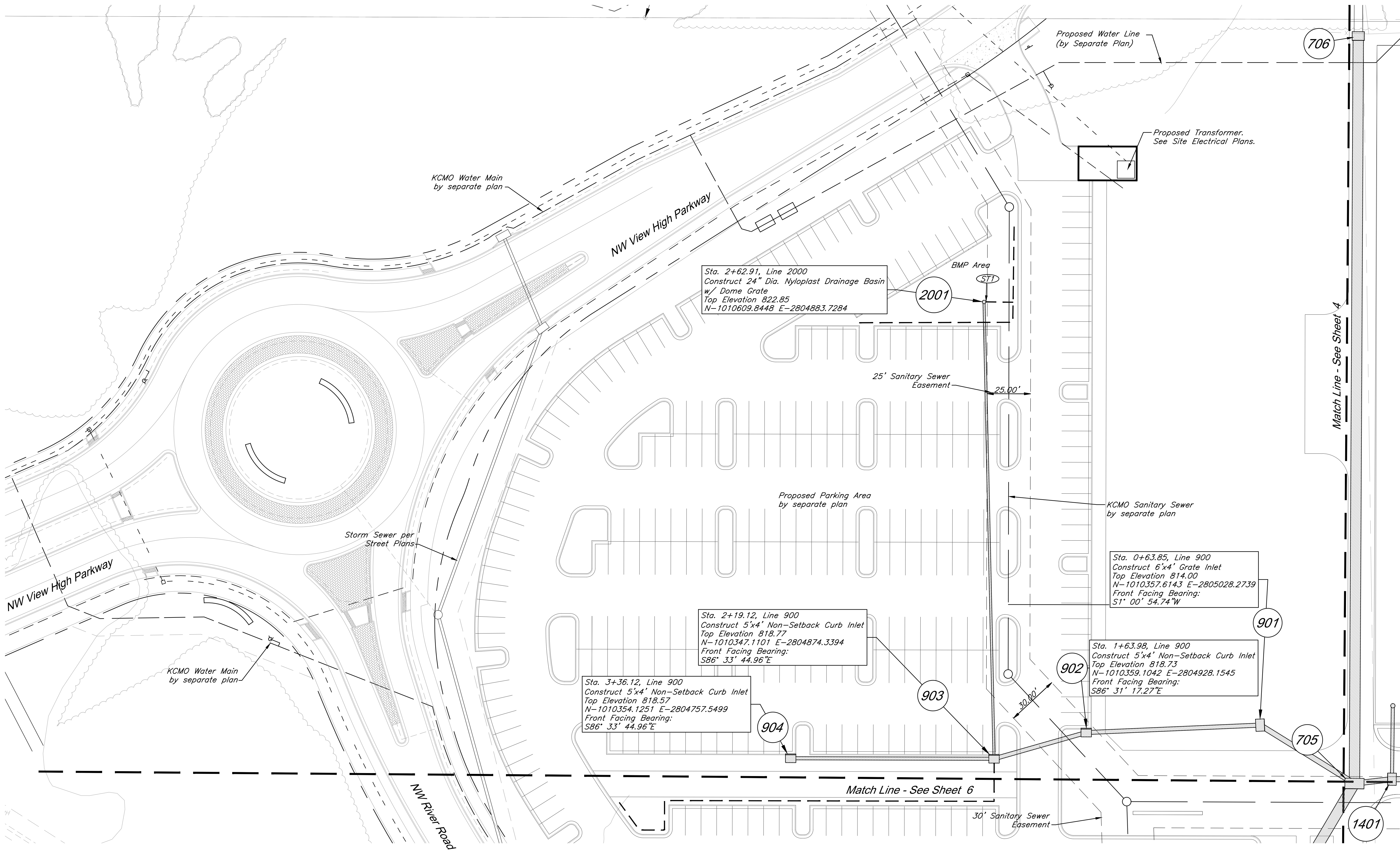
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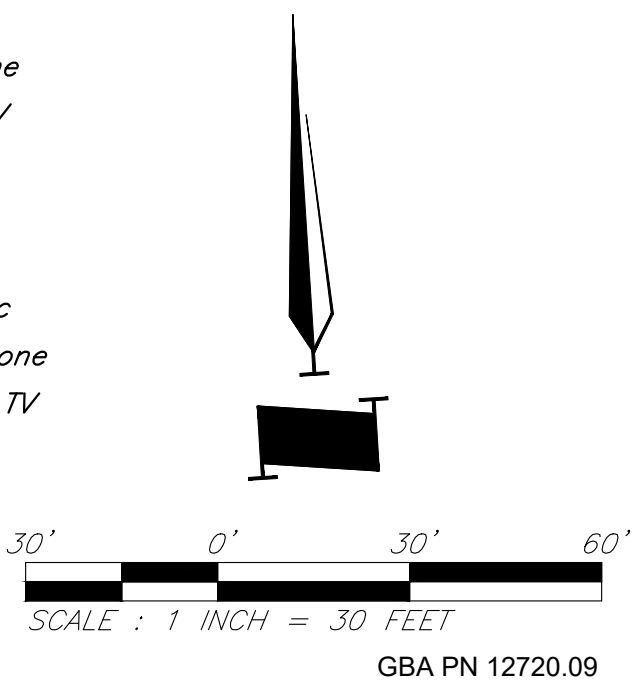
Storm Sewer Construction Notes:

(STD) Connect Perforated 4" HDPE Underdrain to structure 2001, $E=819.30$
Install 150 LF perforated 4" HDPE pipe @ min. 1% as shown.
See construction details.

Utility Legend

	Existing Cable TV Pedestal		Existing Water Meter
	Existing Power Pole		Existing Fiber Optic Line
	Existing Guy Anchor		Existing Fire Protection Line
	Existing Electrical Manhole		Existing Gas Line
	Existing Electrical Transformer		Existing Over Head Electric
	Existing Gas Meter		Existing Over Head Telephone
	Existing Curb Inlet		Existing Over Head Cable TV
	Existing Sanitary Sewer Manhole		Property Line
	Existing Sanitary Cleanout		Right-of-Way Line
	Existing Light Pole		Existing Sanitary Sewer Line
	Existing Boring Hole		Existing Underground Electric
	Existing Telephone Pedestal		Existing Underground Telephone
	Existing Traffic Signal Post		Existing Underground Cable TV
	Existing Fire Manhole		Existing Water Line
	Existing Fire Hydrant		Proposed Storm Sewer
			Existing Storm Sewer
			Underdrain

Notes:
1. Front Facing Bearing provided for non-curb inlets refers to side of inlet facing its downstream pipe.



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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

JOB NO: 1197

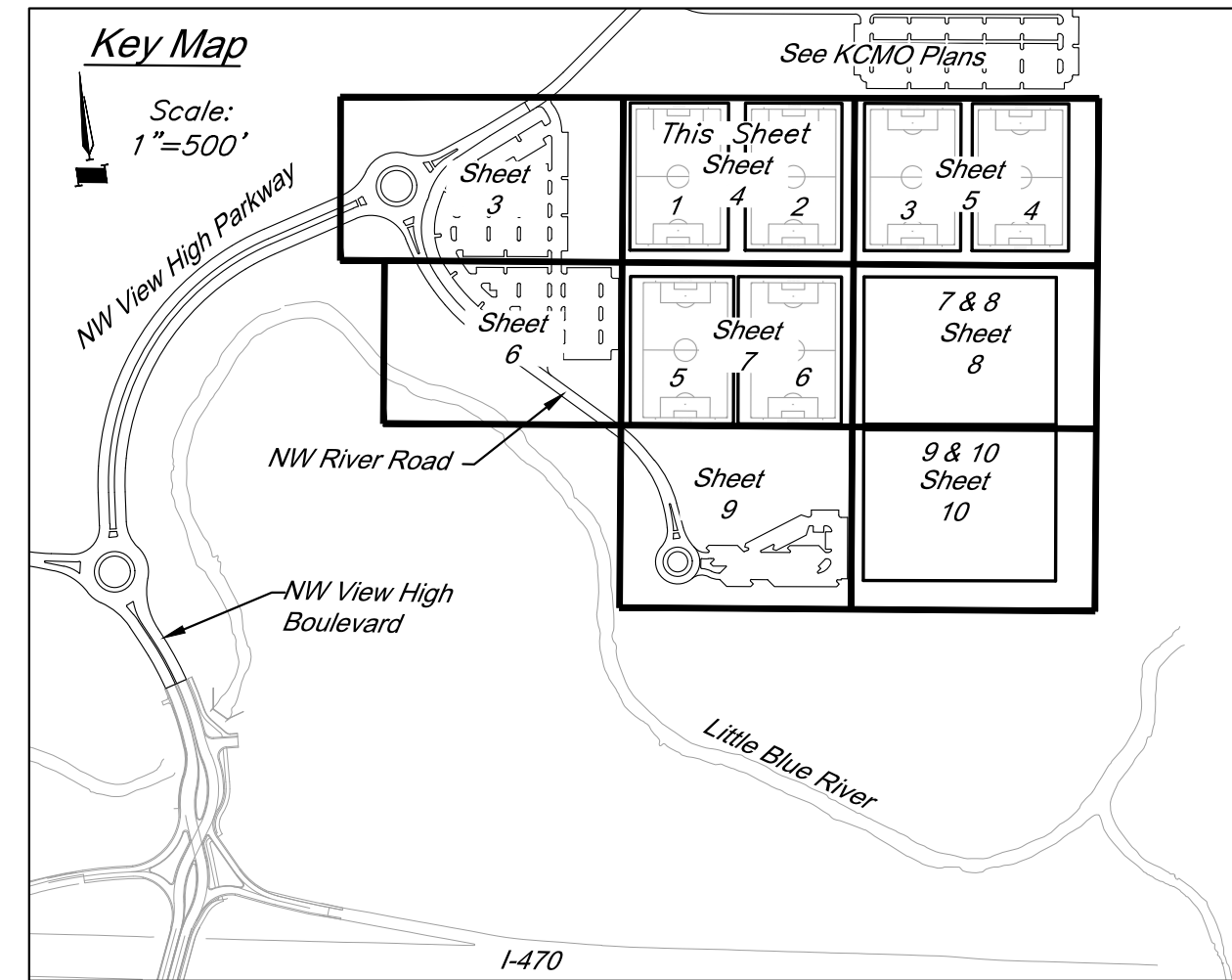
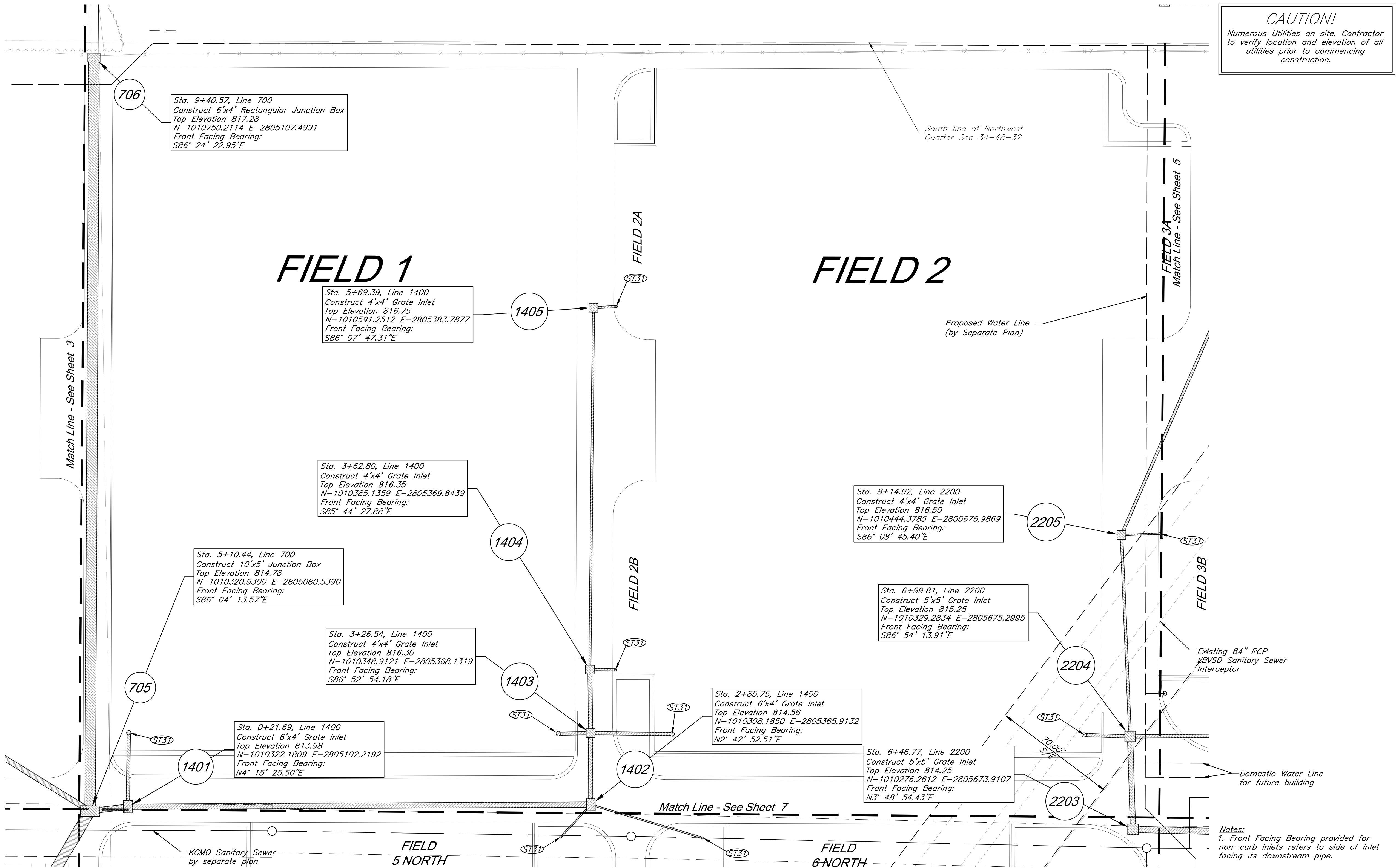
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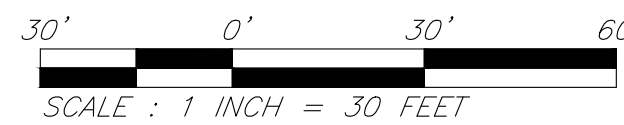
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Storm Sewer Construction Notes:
ST31 See Athletic Field Plans for field storm sewer

Utility Legend

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Existing Power Pole	Existing Fiber Optic Line
Existing Guy Anchor	Existing Fire Protection Line
Existing Electrical Manhole	Existing Gas Line
Existing Electrical Transformer	Existing Over Head Electric
Existing Gas Meter	Existing Over Head Telephone
Existing Curb Inlet	Existing Over Head Cable TV
Existing Sanitary Sewer Manhole	Property Line
Existing Sanitary Cleanout	Right-of-Way Line
Existing Light Pole	Existing Sanitary Sewer Line
Existing Boring Hole	Existing Underground Electric
Existing Sign	Existing Underground Telephone
Existing Telephone Pedestal	Existing Underground Cable TV
Existing Traffic Signal Post	Existing Water Line
Existing Traffic Manhole	Proposed Storm Sewer
Existing Fire Hydrant	Existing Storm Sewer
	Underdrain



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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

JOB NO: 1197

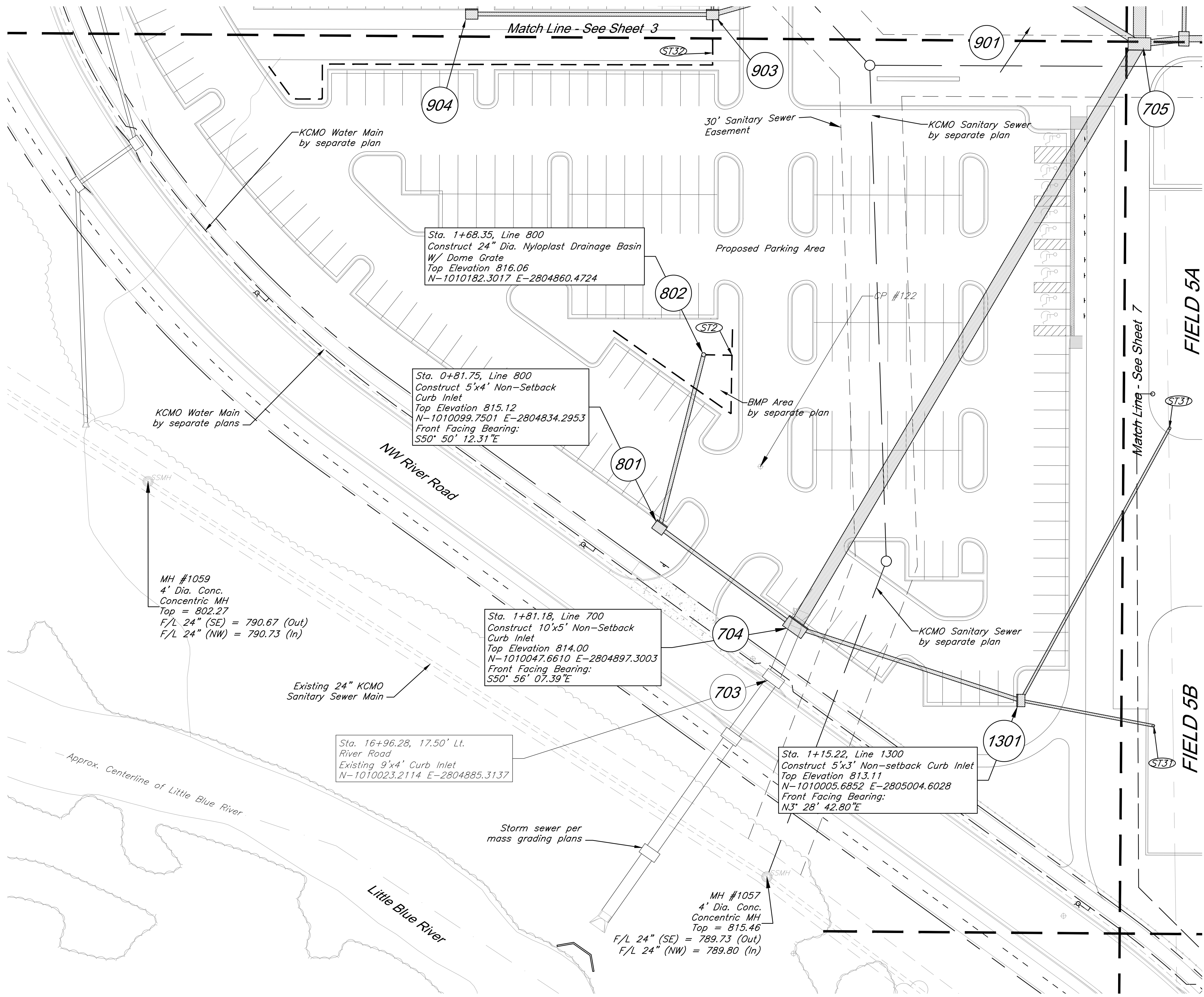
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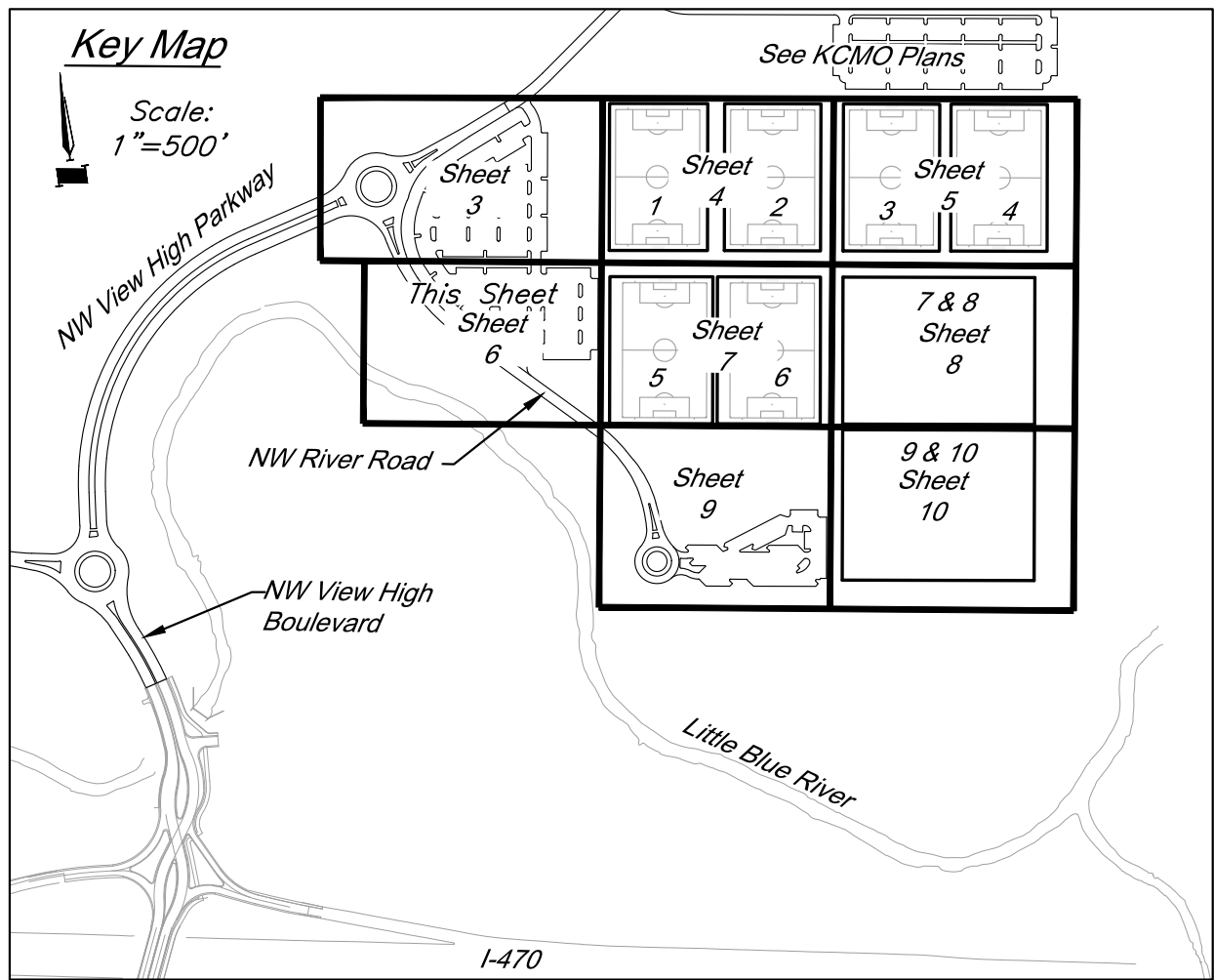
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CAUTION!
Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

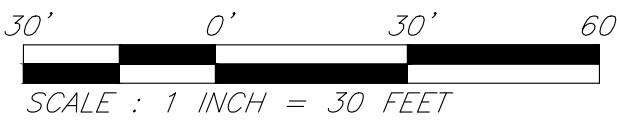


Storm Sewer Construction Notes:
ST2 Connect Perforated 4" HDPE Underdrain to structure 802, E=812.00. Install 120 LF perforated 4" HDPE pipe @ min. 1% as shown. See construction details.
ST31 See Athletic Field Plans for field storm sewer

Utility Legend

	Existing Cable TV Pedestal		Existing Water Meter
	Existing Power Pole		Existing Fiber Optic Line
	Existing Guy Anchor		Existing Fire Protection Line
	Existing Electrical Manhole		Existing Gas Line
	Existing Electrical Transformer		Existing Over Head Electric
	Existing Gas Meter		Existing Over Head Telephone
	Existing Curb Inlet		Existing Over Head Cable TV
	Existing Sanitary Sewer Manhole		Property Line
	Existing Sanitary Cleanout		Right-of-Way Line
	Existing Light Pole		Existing Sanitary Sewer Line
	Existing Boring Hole		Existing Underground Electric
	Existing Sign		Existing Underground Telephone
	Existing Telephone Pedestal		Existing Underground Cable TV
	Existing Traffic Signal Post		Existing Water Line
	Existing Traffic Manhole		Proposed Storm Sewer
	Existing Fire Hydrant		Existing Storm Sewer
			Underdrain

Notes:
1. Front Facing Bearing provided for non-curb inlets refers to side of inlet facing its downstream pipe.



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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

JOB NO: 1197

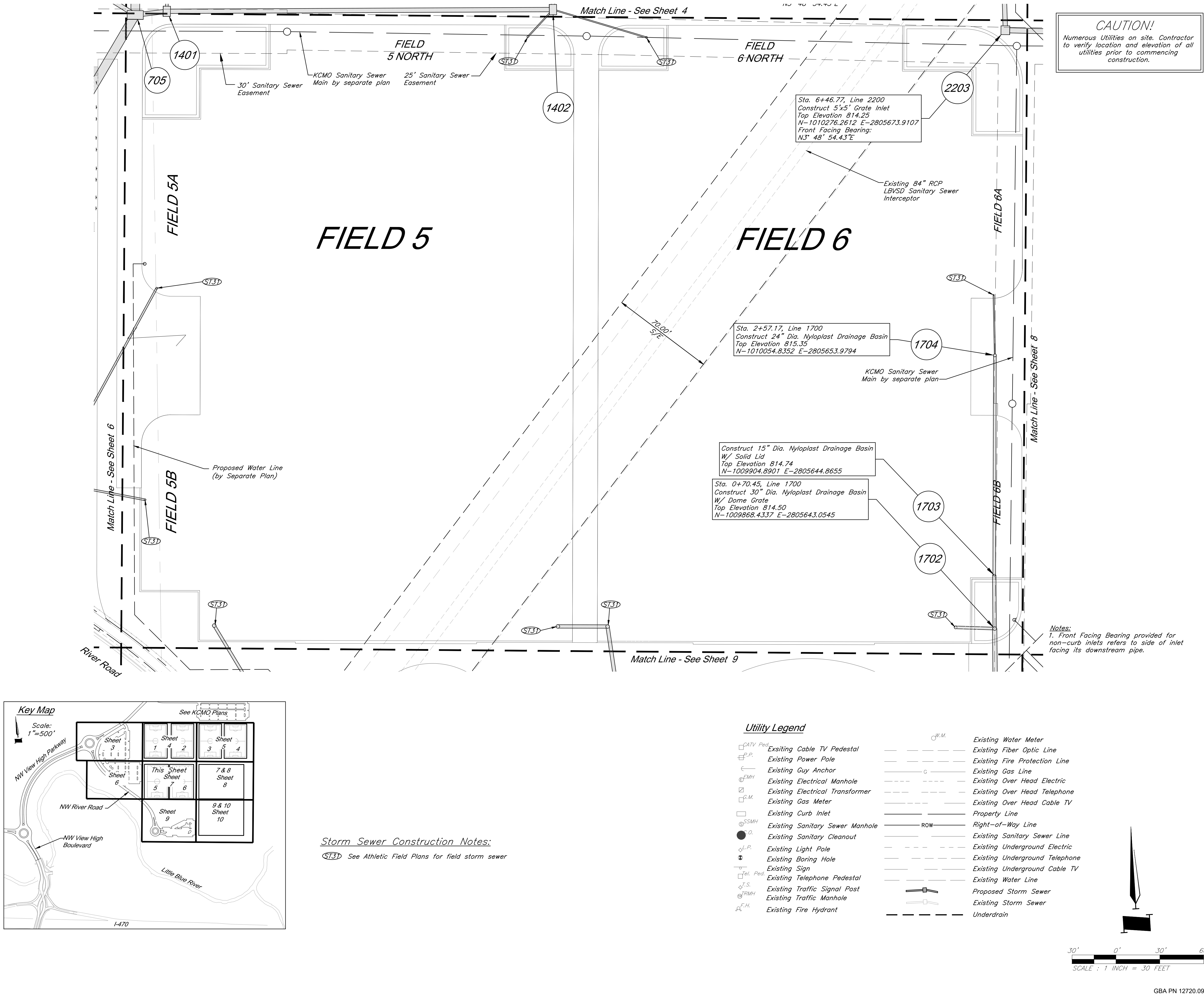
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DATE: 10.03.2019 DRAWN BY: GBA

SHEET NO:

6

Architect: 00212, Professional Engineer: 000133, Professional Land Surveyor: 000059
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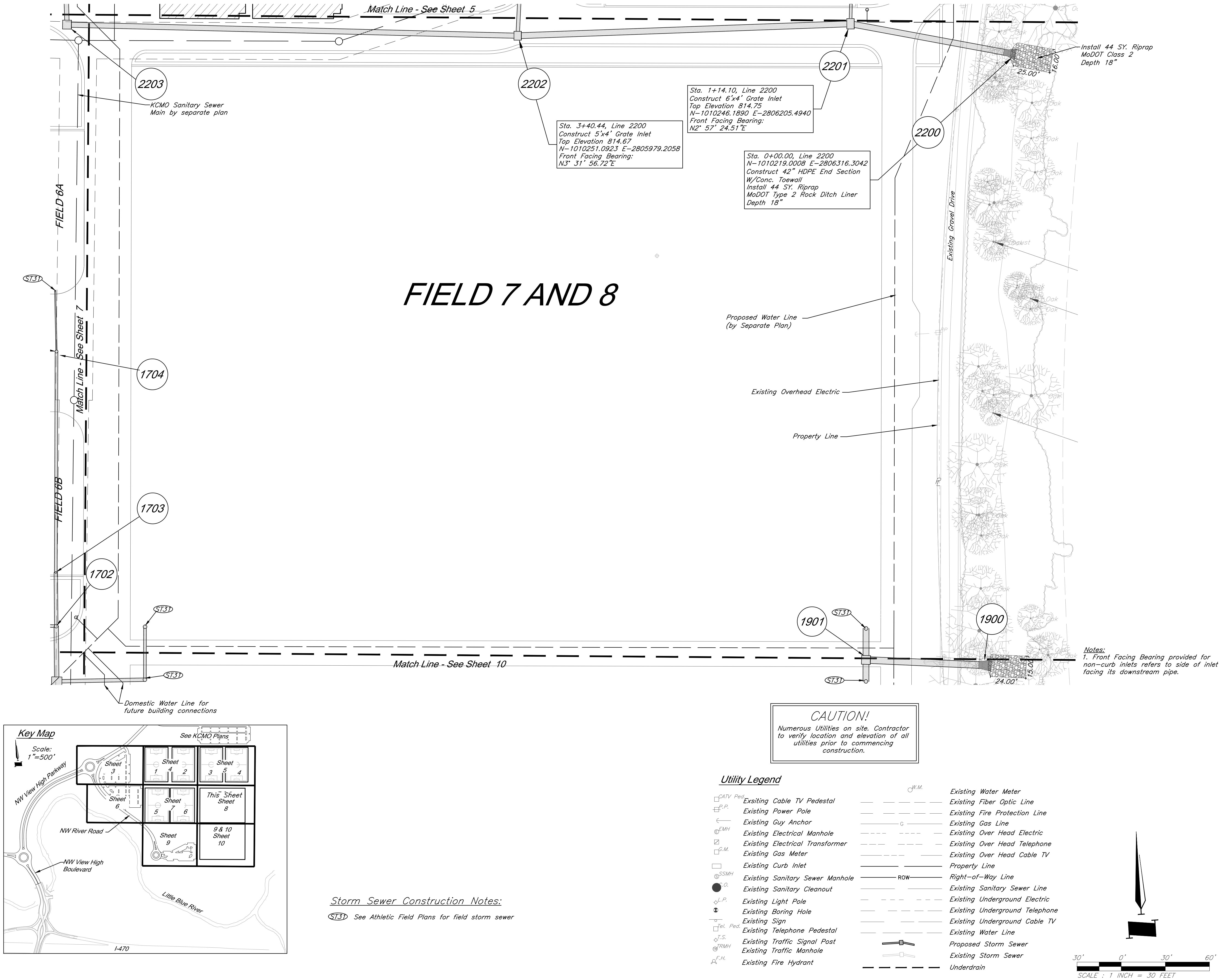
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Utility Plan

JOB NO: 1197 SCALE:
DATE: 10.03.2019 DRAWN BY: GBA

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Architect: 00212, Professional Engineer: 000133, Professional Land Surveyor: 000059
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DRAWING TITLE:

Utility Plan

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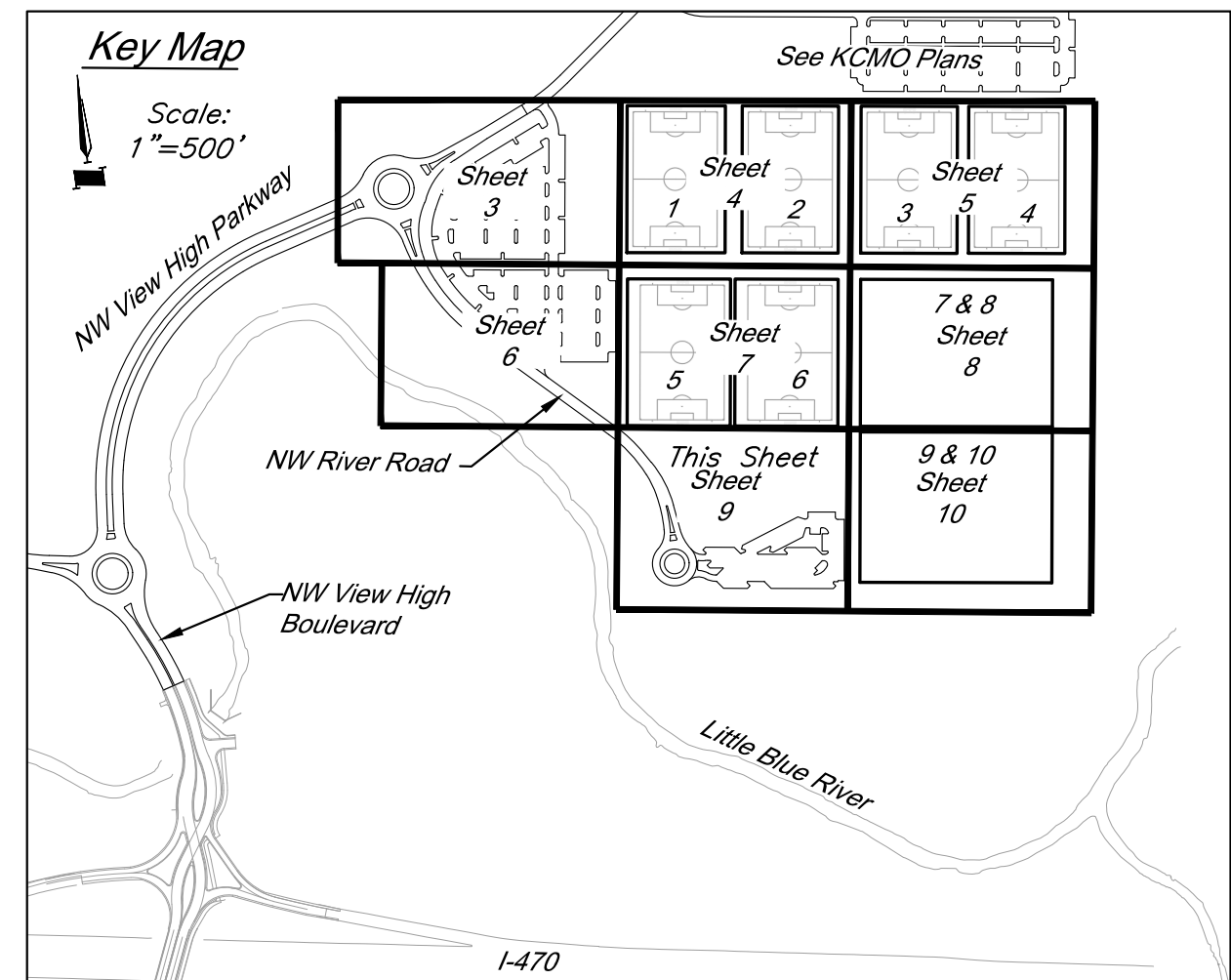
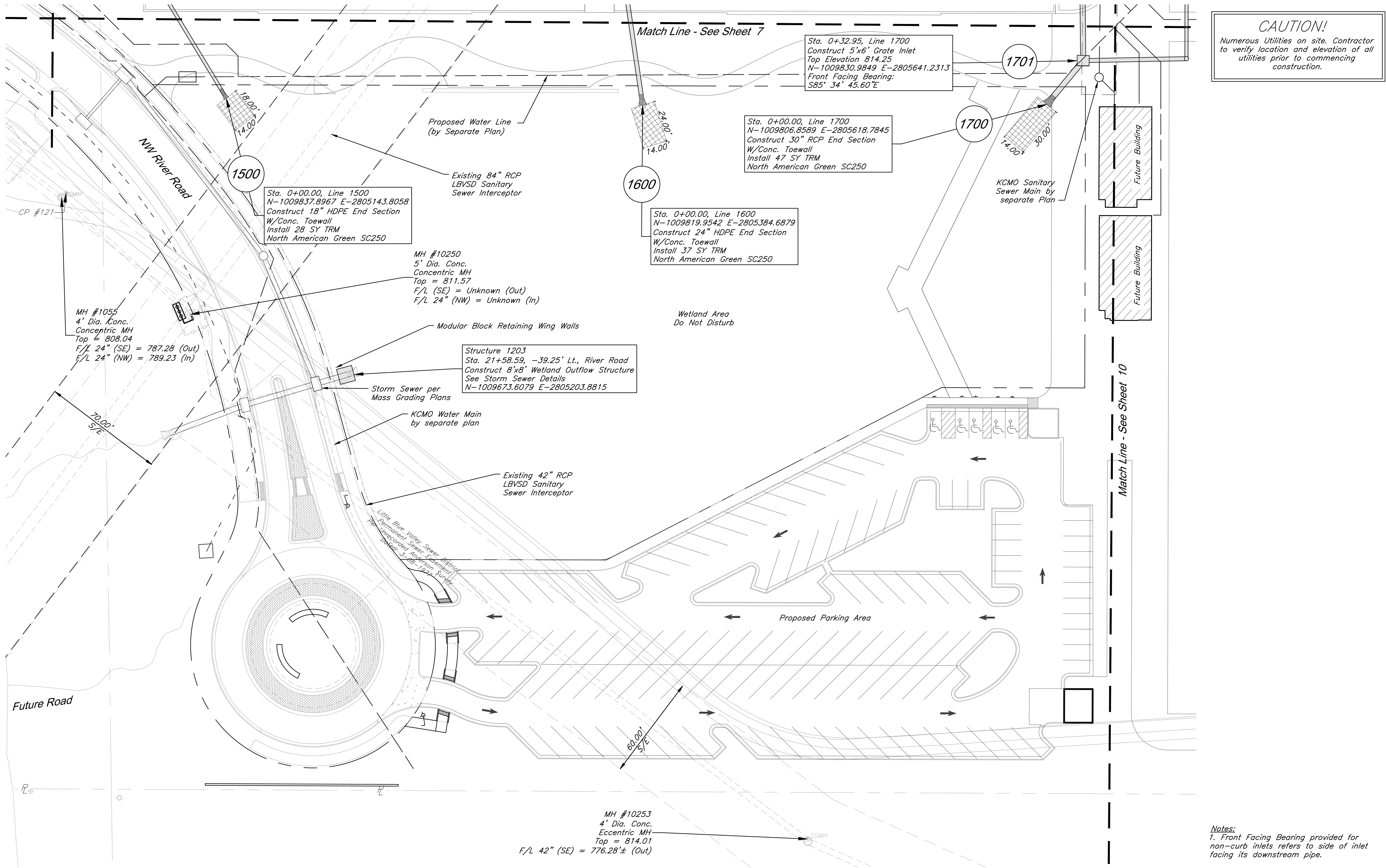
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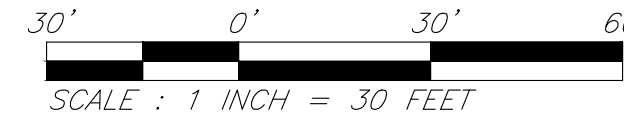
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Architect: 00212, Professional Engineer: 000133, Professional Land Surveyor: 0000209
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Utility Legend

	Existing Cable TV Pedestal		Existing Water Meter
	Existing Power Pole		Existing Fiber Optic Line
	Existing Guy Anchor		Existing Fire Protection Line
	Existing Electrical Manhole		Existing Gas Line
	Existing Electrical Transformer		Existing Over Head Electric
	Existing Gas Meter		Existing Over Head Telephone
	Existing Curb Inlet		Existing Over Head Cable TV
	Existing Sanitary Sewer Manhole		Property Line
	Existing Sanitary Cleanout		Right-of-Way Line
	Existing Light Pole		Existing Sanitary Sewer Line
	Existing Boring Hole		Existing Underground Electric
	Existing Sign		Existing Underground Telephone
	Existing Telephone Pedestal		Existing Underground Cable TV
	Existing Traffic Signal Post		Existing Water Line
	Existing Traffic Manhole		Proposed Storm Sewer
	Existing Fire Hydrant		Existing Storm Sewer
			Underdrain



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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

JOB NO: 1197

SCALE:

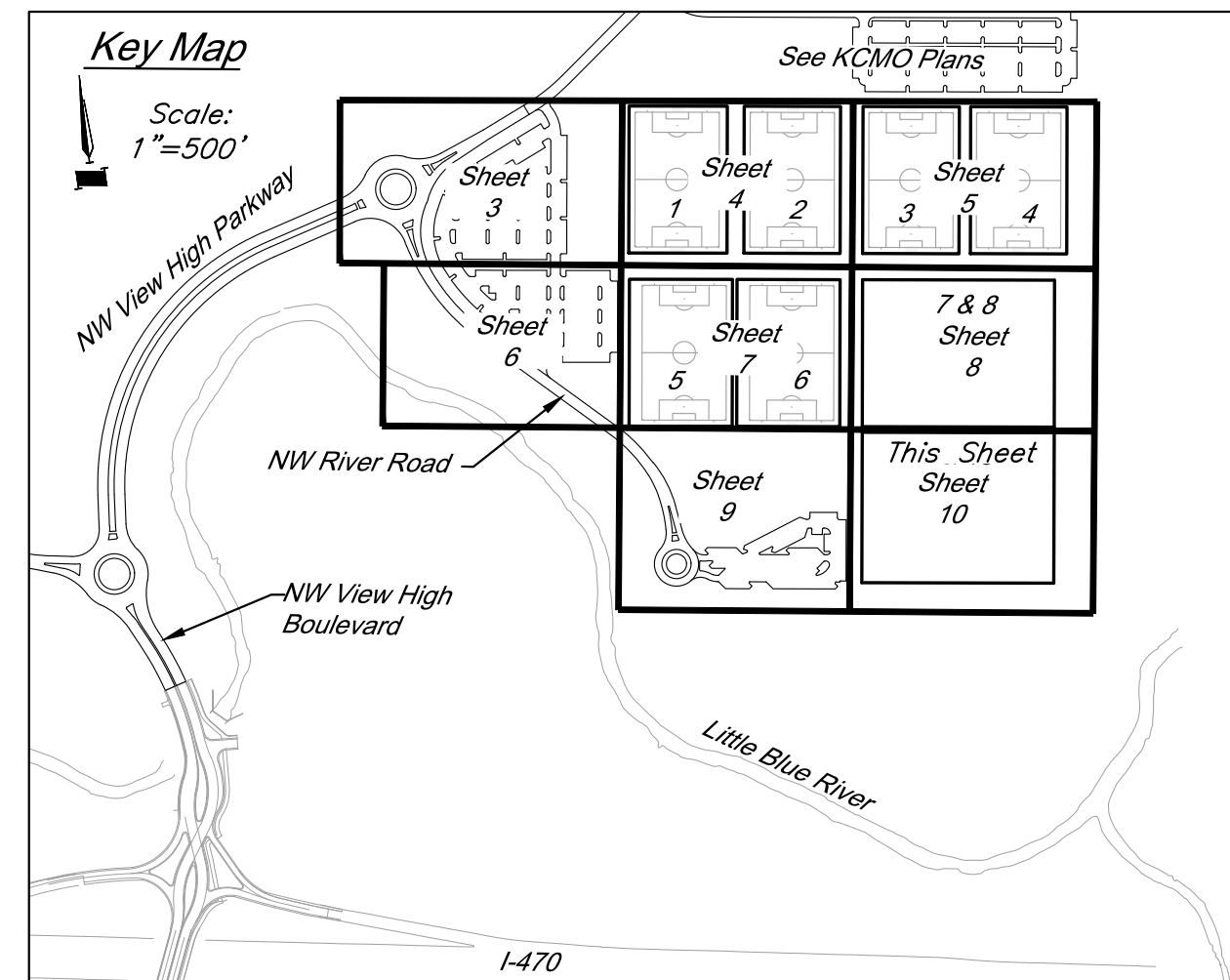
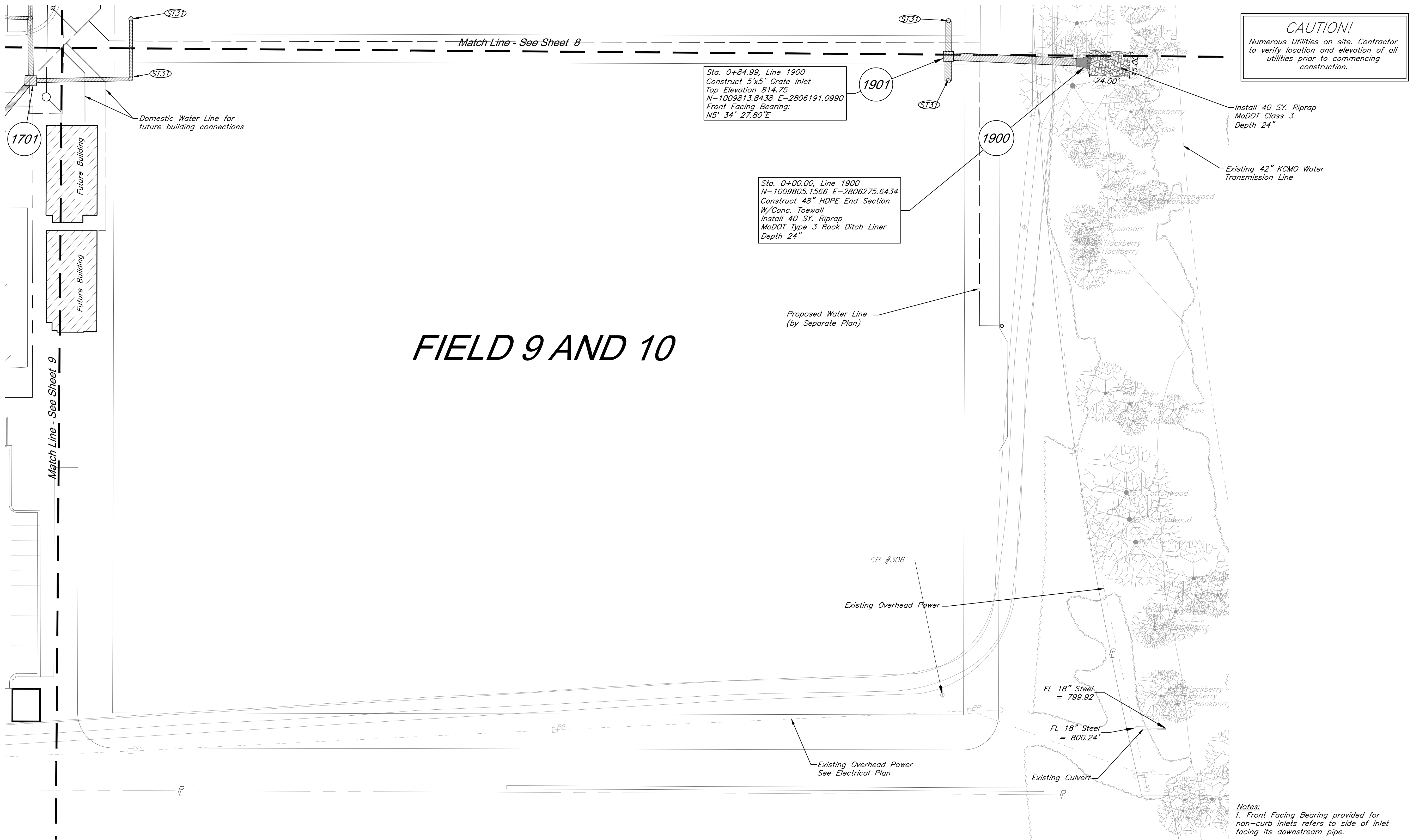
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Storm Sewer Construction Notes:
See Athletic Field Plans for field storm sewer

Utility Legend

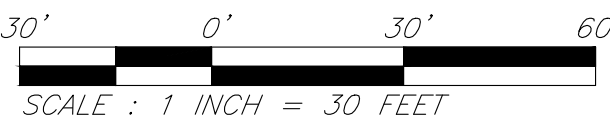
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	Existing Power Pole		Existing Fiber Optic Line
	Existing Guy Anchor		Existing Fire Protection Line
	Existing Electrical Manhole		Existing Gas Line
	Existing Electrical Transformer		Existing Over Head Electric
	Existing Gas Meter		Existing Over Head Telephone
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	Existing Light Pole		Existing Sanitary Sewer Line
	Existing Boring Hole		Existing Underground Electric
	Existing Sign		Existing Underground Telephone
	Existing Telephone Pedestal		Existing Underground Cable TV
	Existing Traffic Signal Post		Existing Water Line
	Existing Traffic Manhole		Proposed Storm Sewer
	Existing Fire Hydrant		Existing Storm Sewer
			Underdrain

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

Install 40 SY. Riprap
MoDOT Class 3
Depth 24"

Existing 42" KCMO Water
Transmission Line

Notes:
1. Front Facing Bearing provided for non-curb inlets refers to side of inlet facing its downstream pipe.



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Utility Plan

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Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 10'



A horizontal scale bar with alternating black and white segments. It is marked with 0', 50', and 100'.

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PROJECT

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

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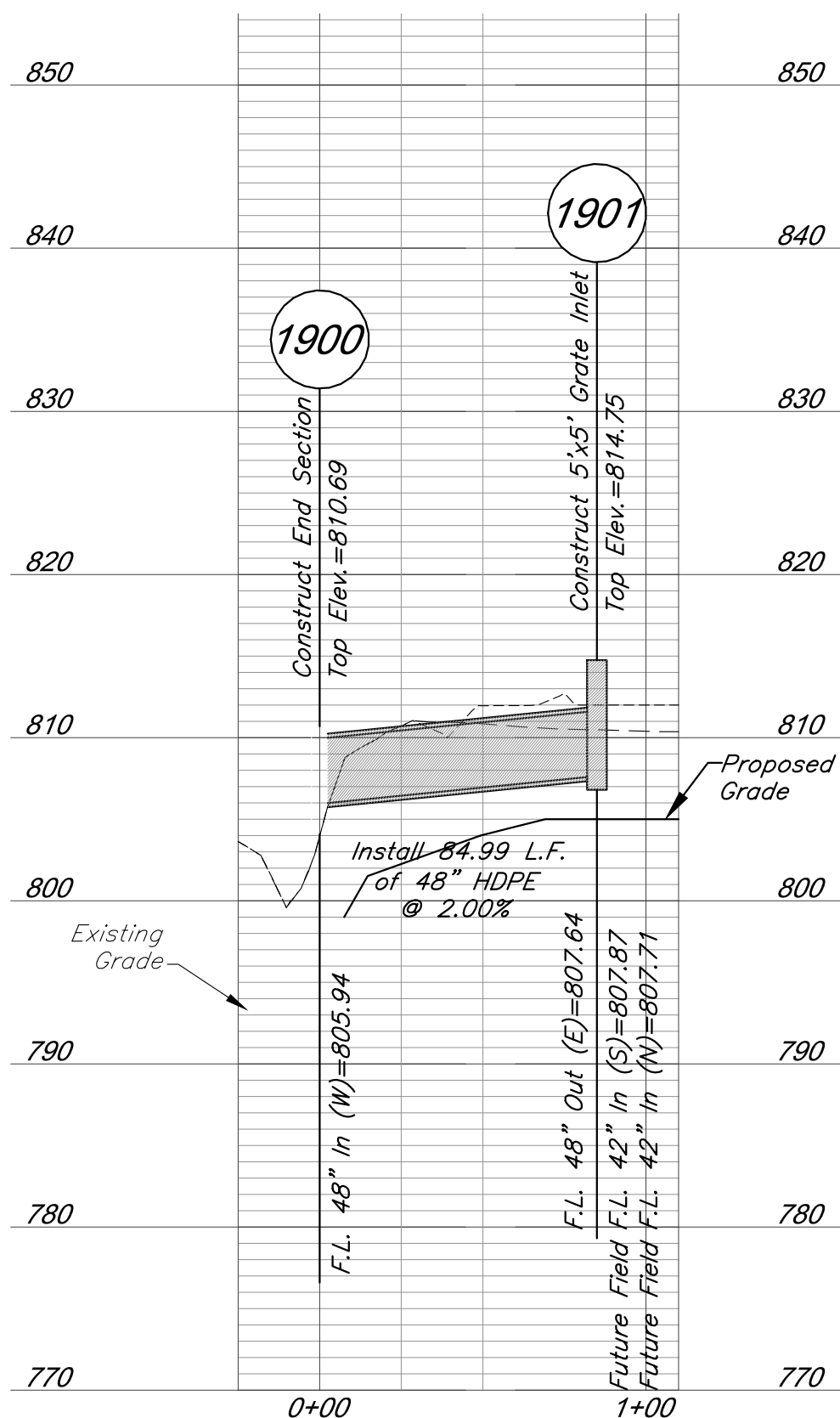
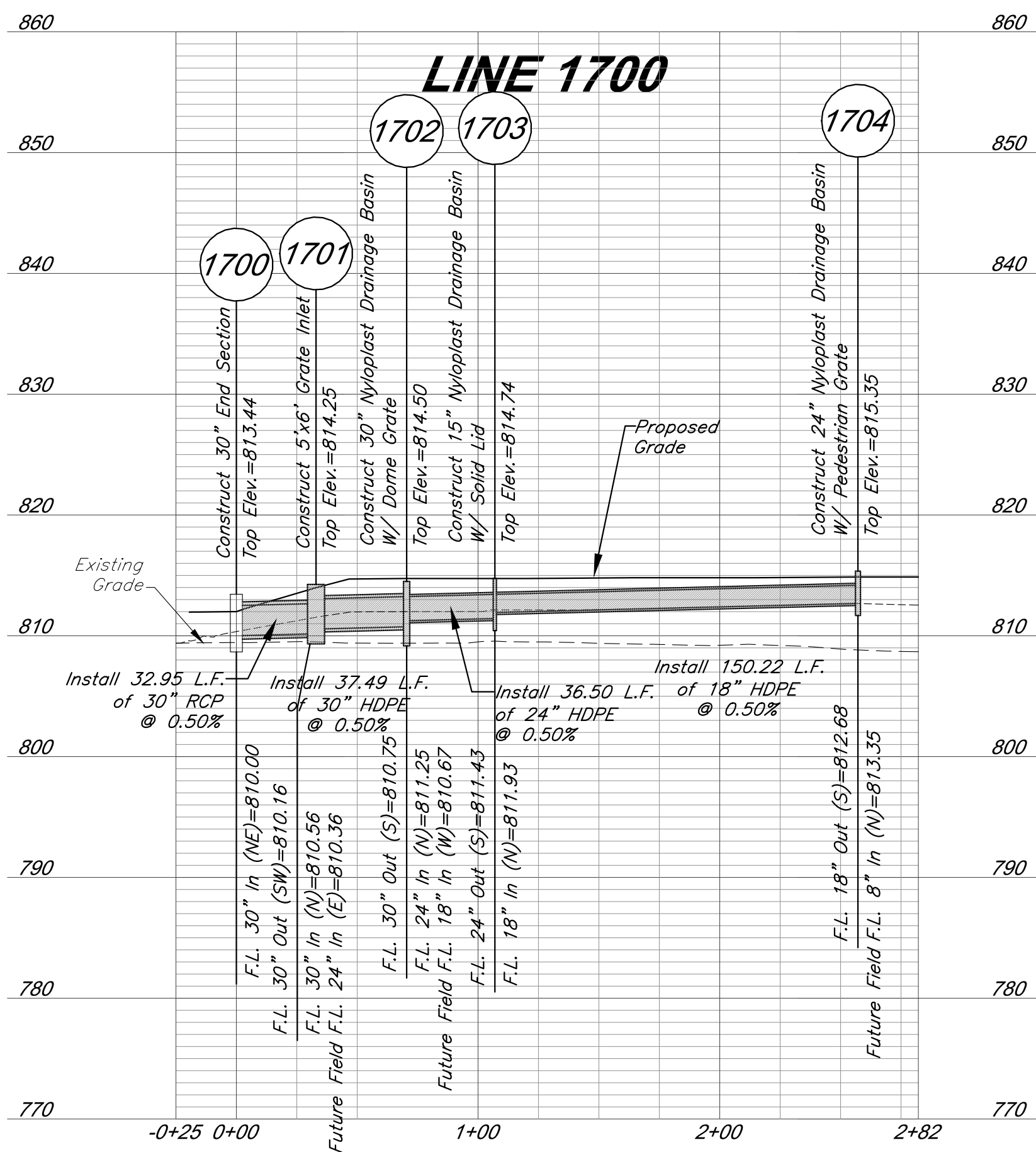
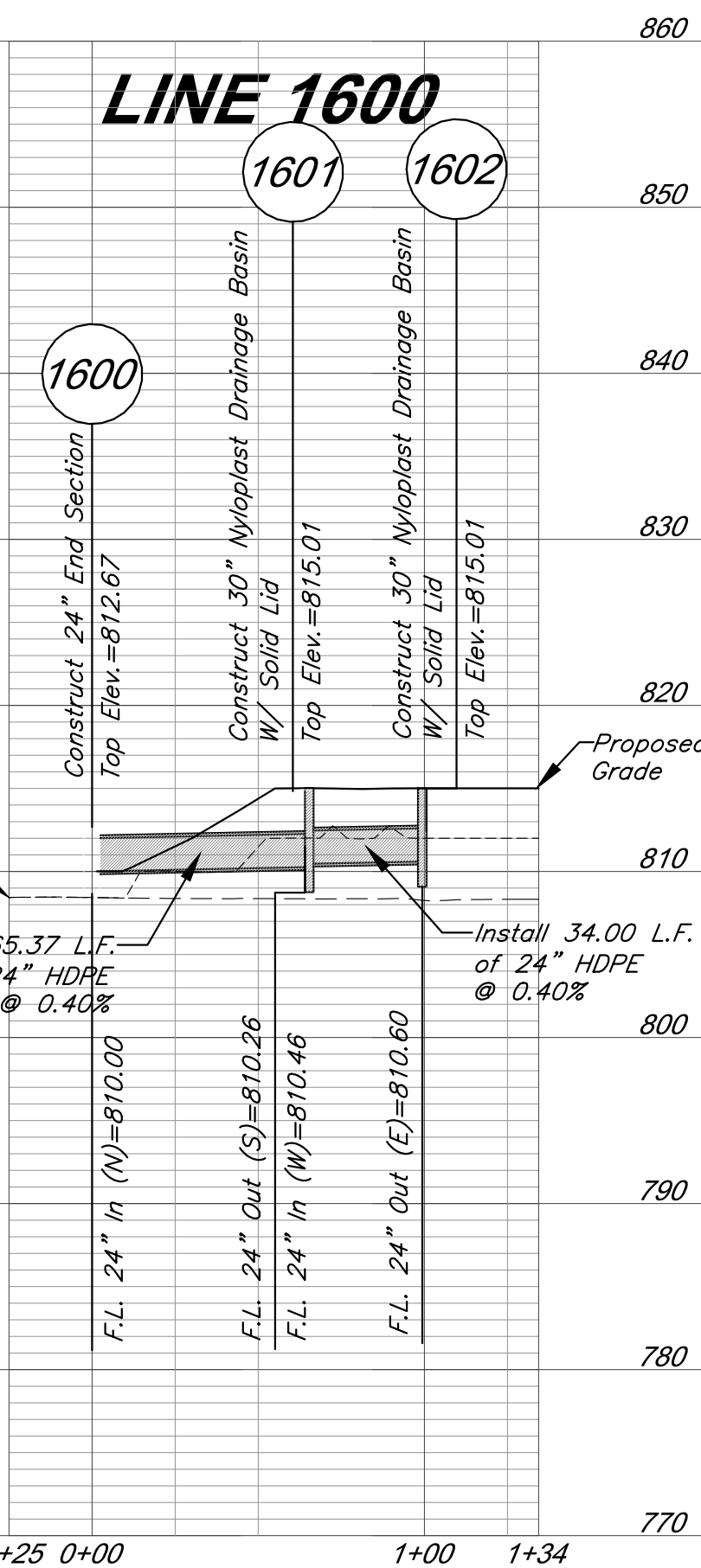
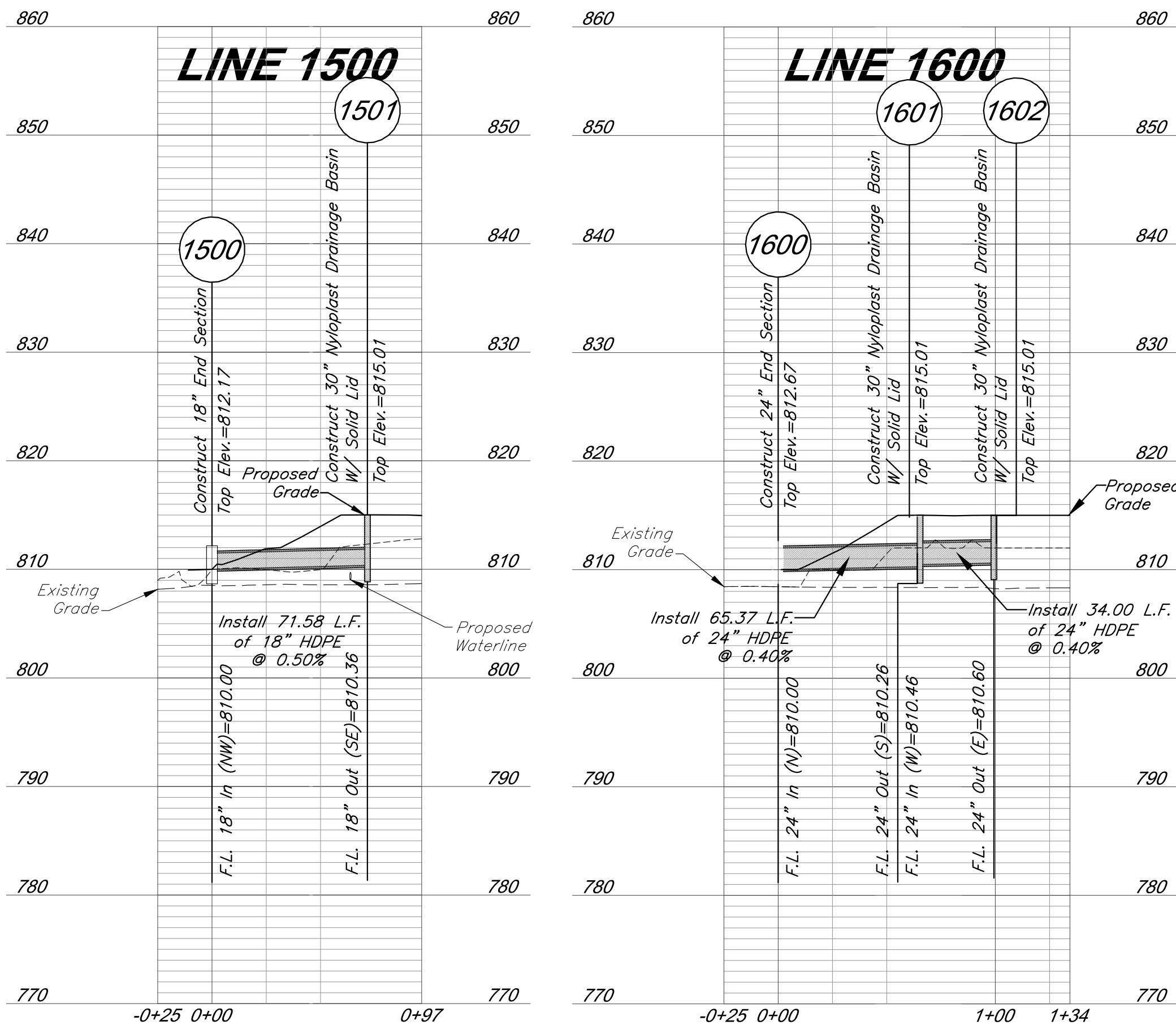
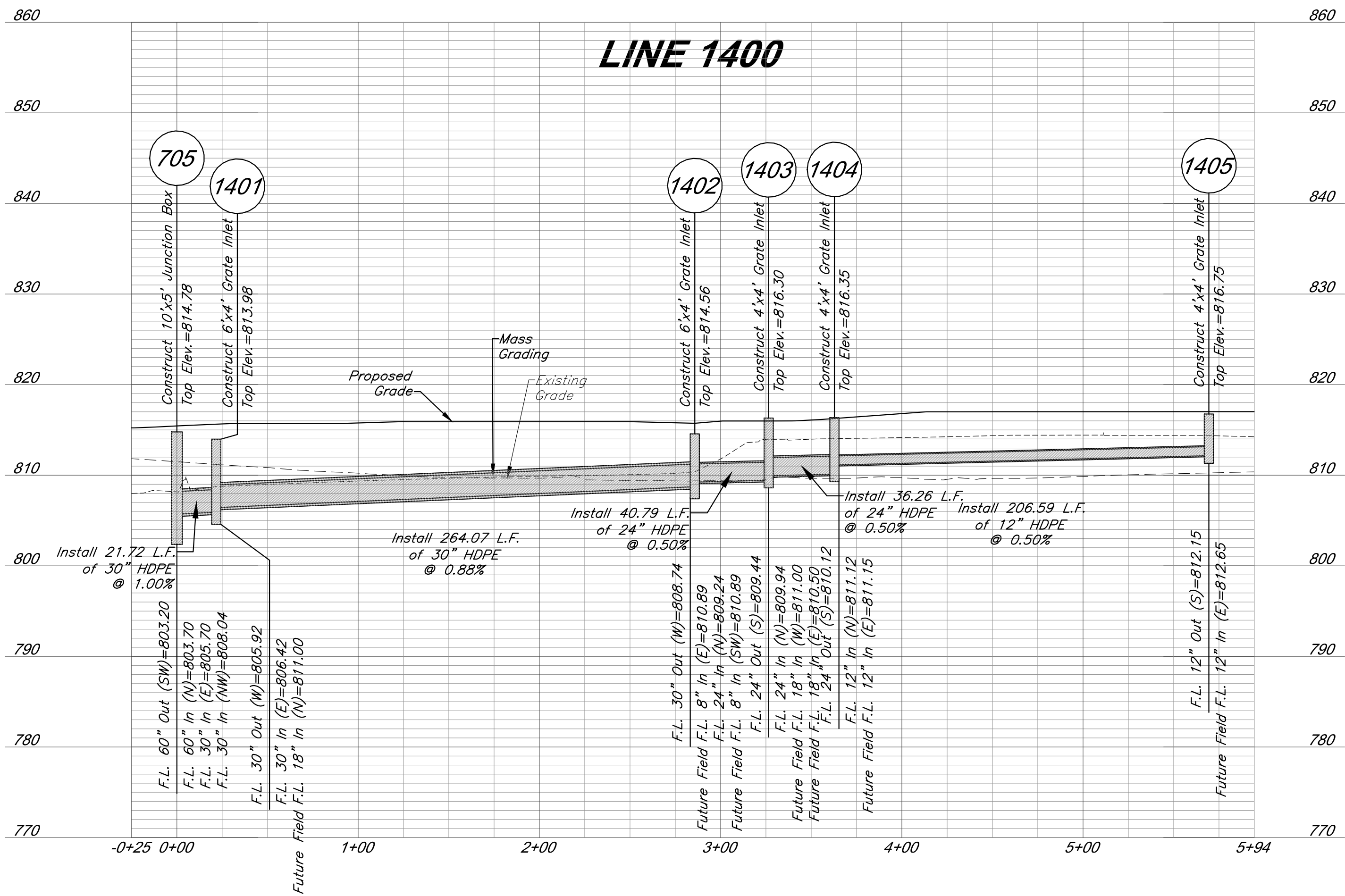
Storm Sewer Profiles

JOB NO: 1197

DATE: 10.03.2019 DRAWN BY: GBA

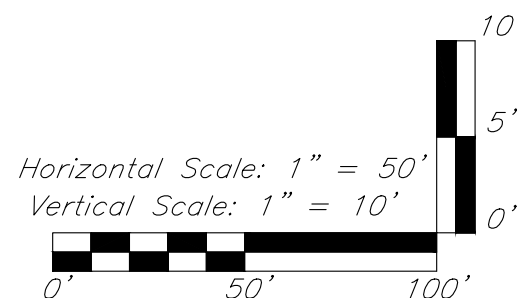
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LEGEND

Compacted Fill shall be placed to a minimum of 18 inches above the top of pipe prior to installation.



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Profiles

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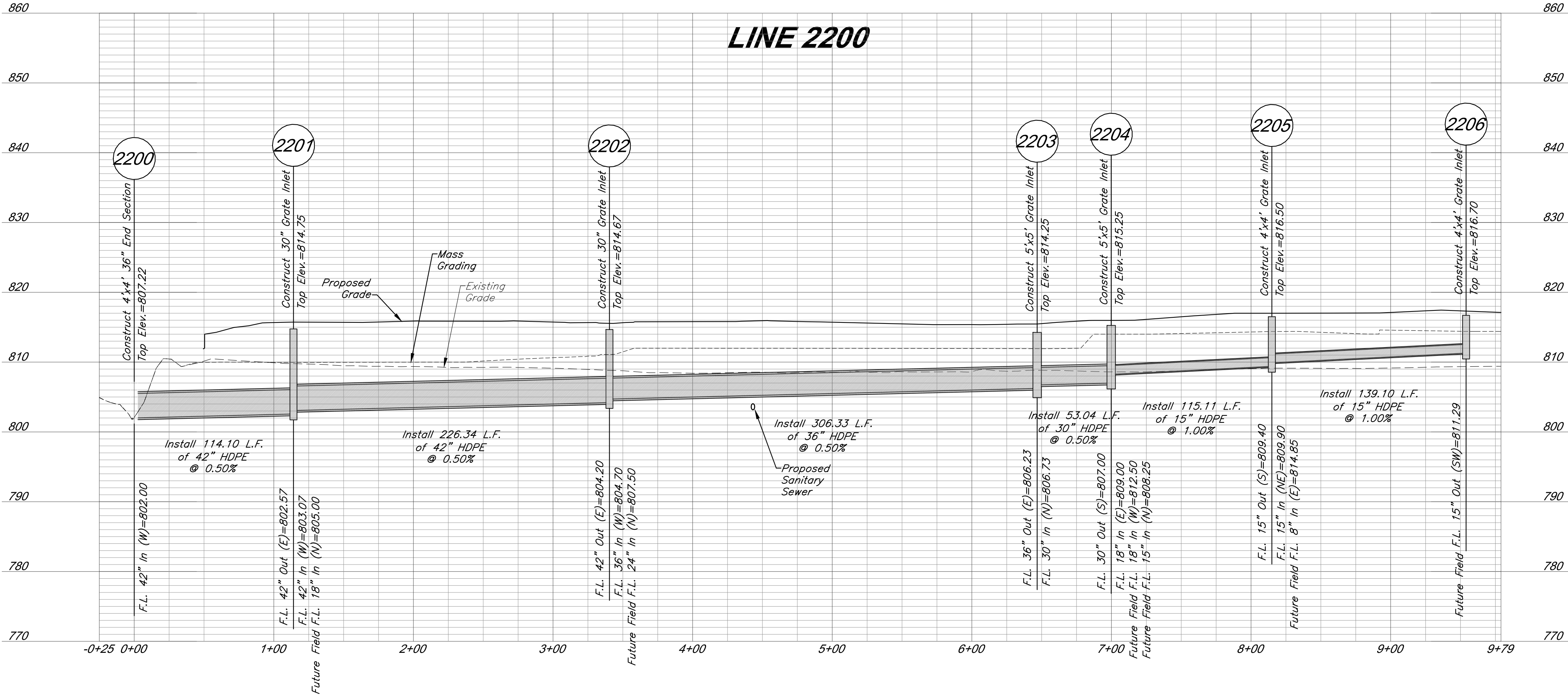
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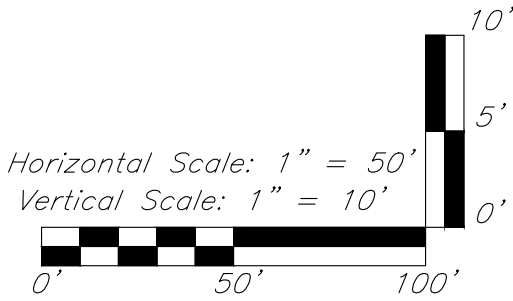
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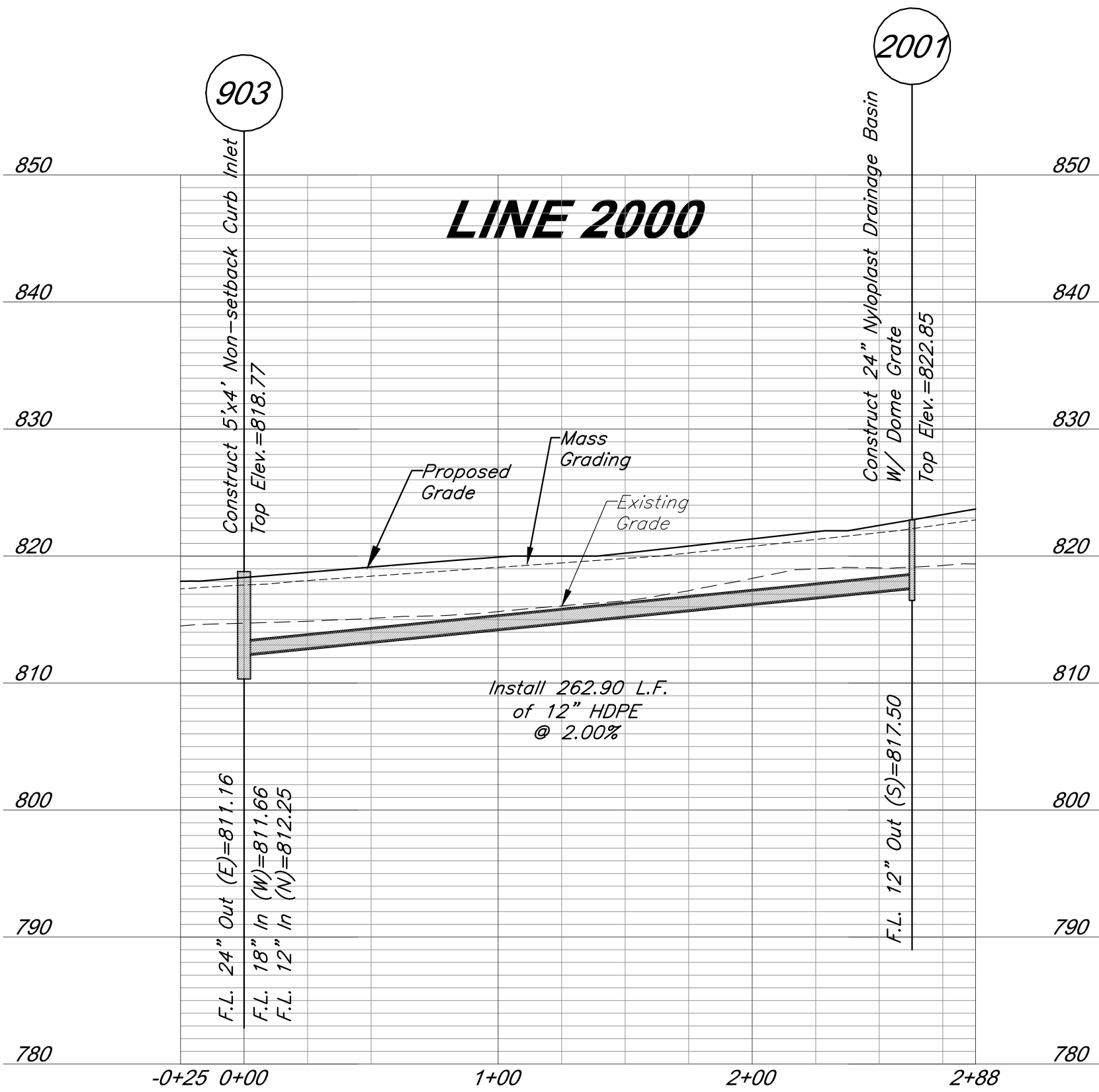
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Note: Compacted Fill shall be placed to a minimum of 18 inches above the top of pipe prior to installation.



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Field Storm Sewer Plans

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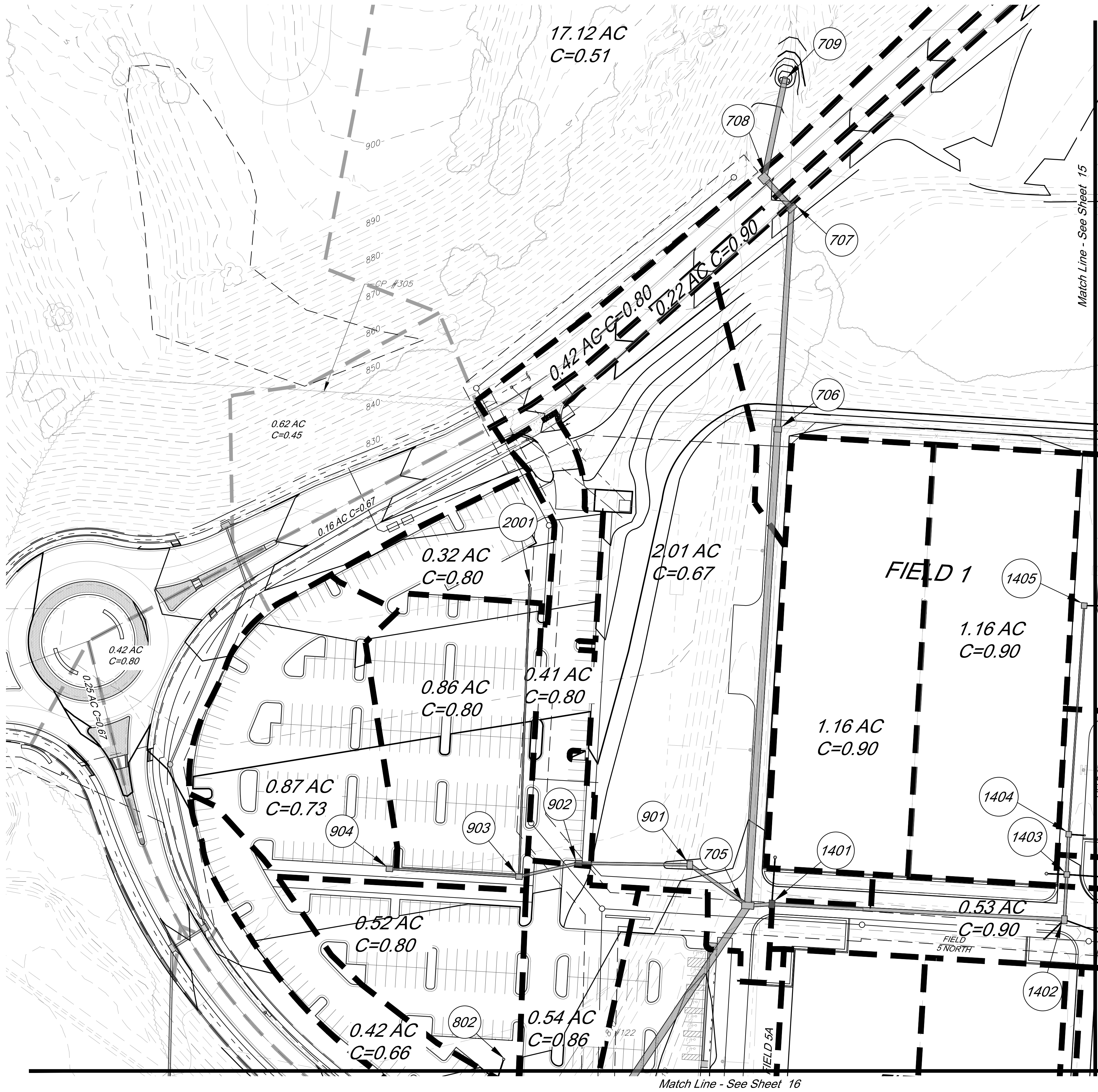
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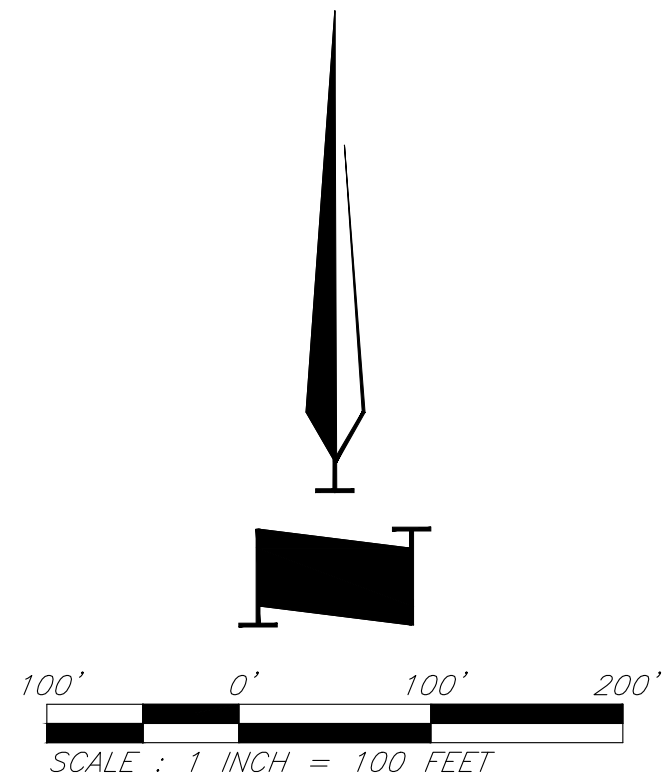
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- Legend**
- 800 Proposed Contours
 - 800 Existing Contour
 - Proposed Drainage Area
 - 0.28 Acres Drainage Area
 - Proposed Storm Sewer
 - Future Storm Sewer



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ISSUE:

10/17/19

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DRAWING TITLE:

Drainage Map

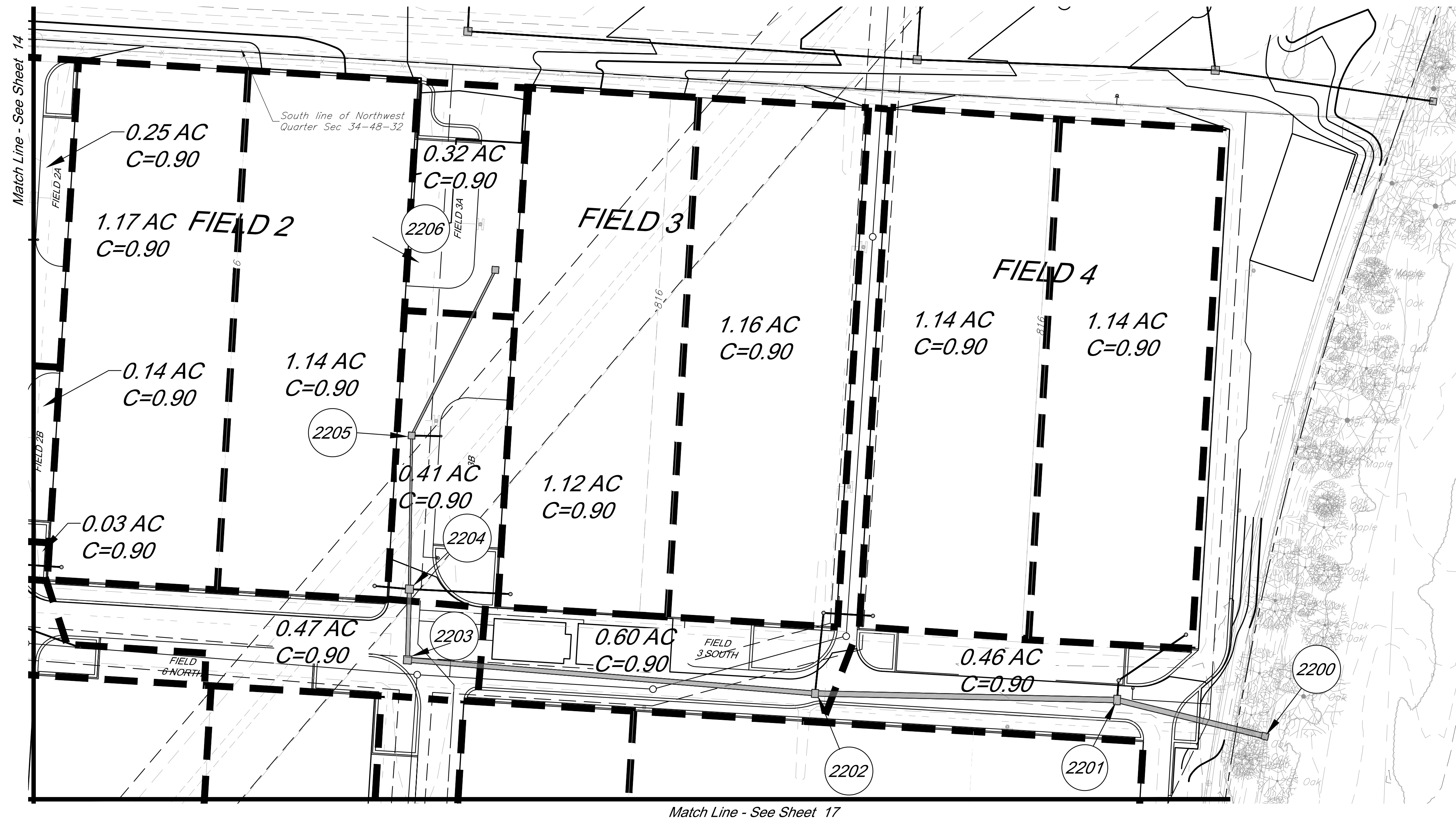
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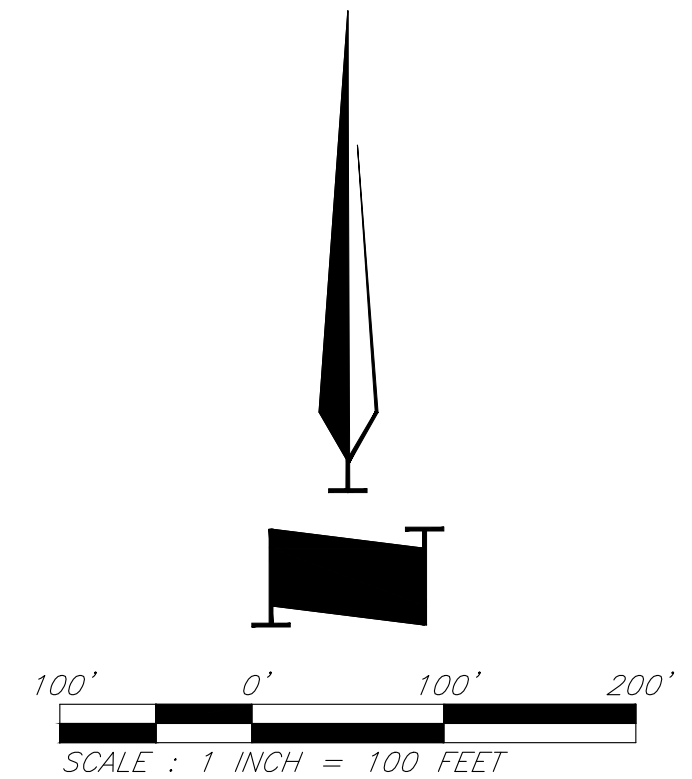
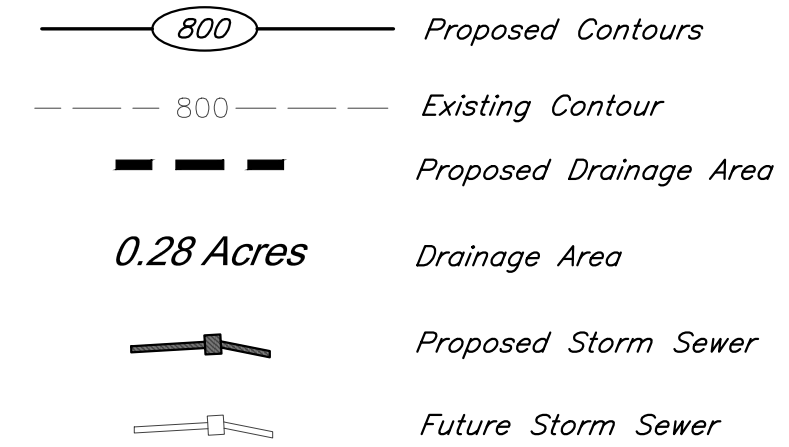
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Legend



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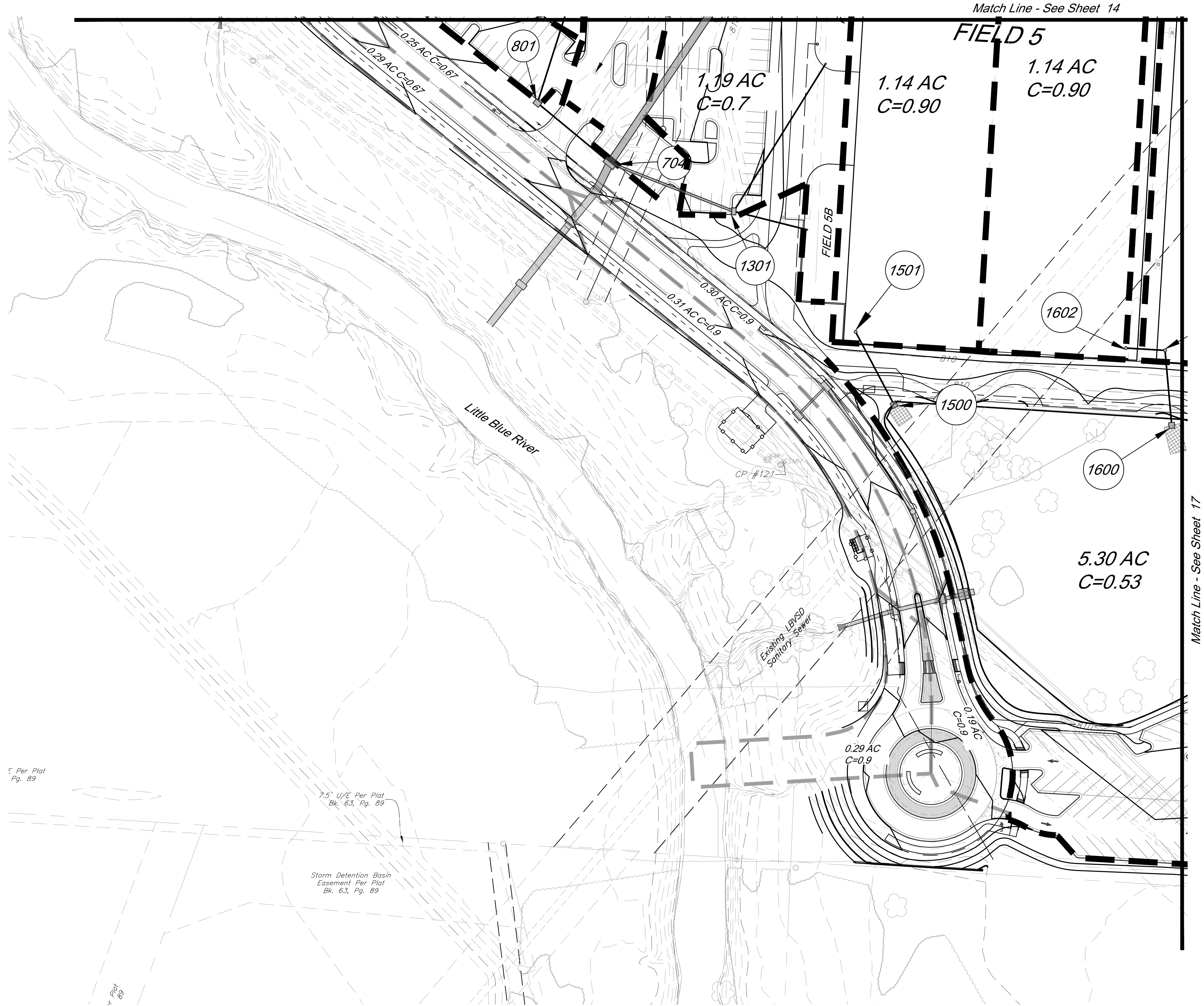
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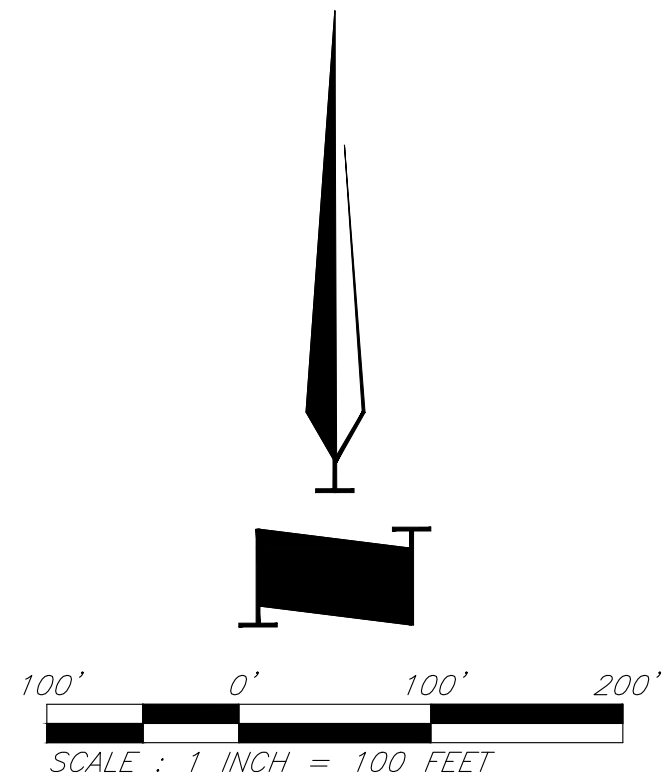
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 - 800 Existing Contour
 - Proposed Drainage Area
 - 0.28 Acres Drainage Area
 - Proposed Storm Sewer
 - Future Storm Sewer



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Drainage Map

JOB NO: 1197

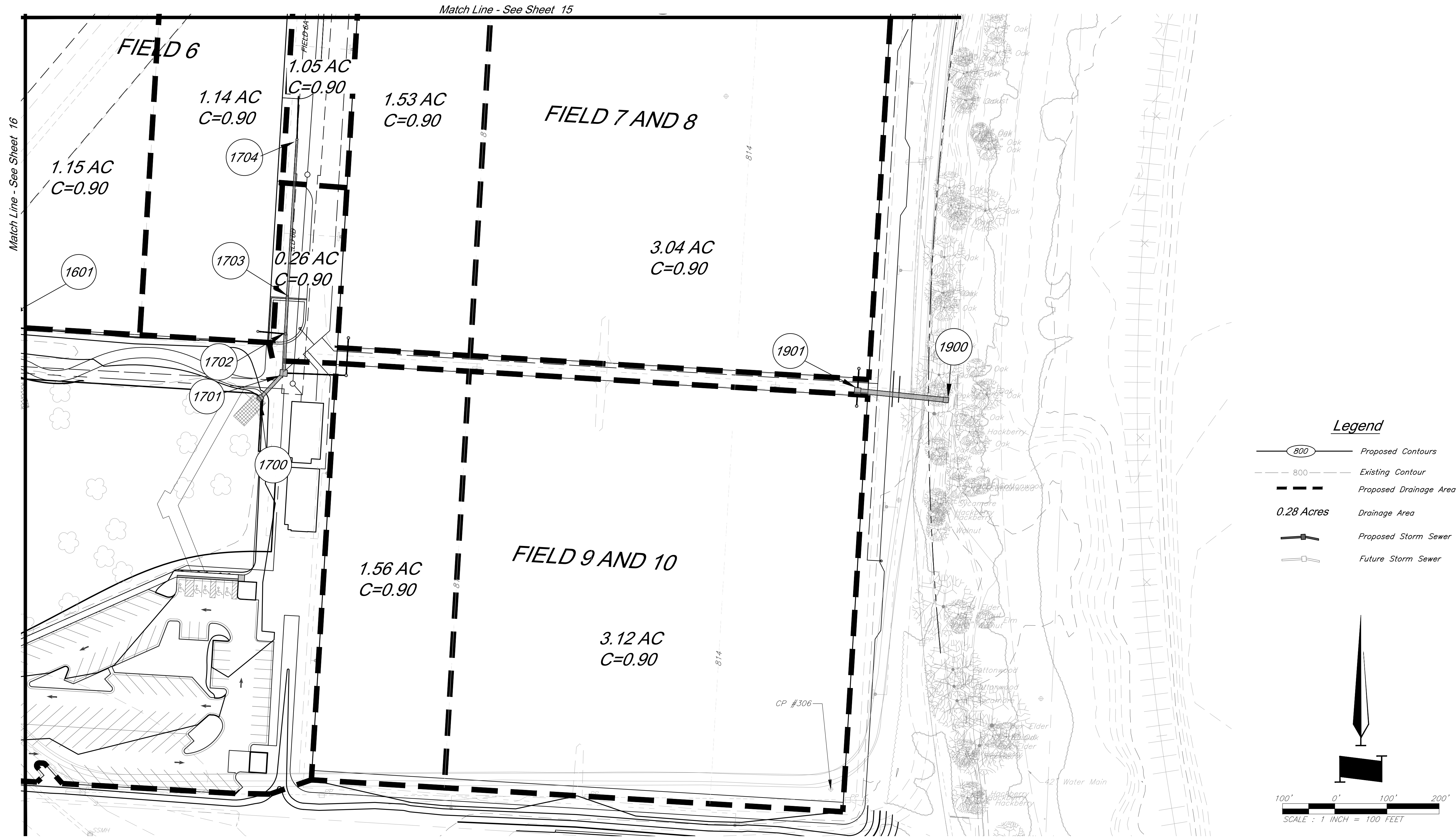
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16

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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

Drainage Map

JOB NO: 1197

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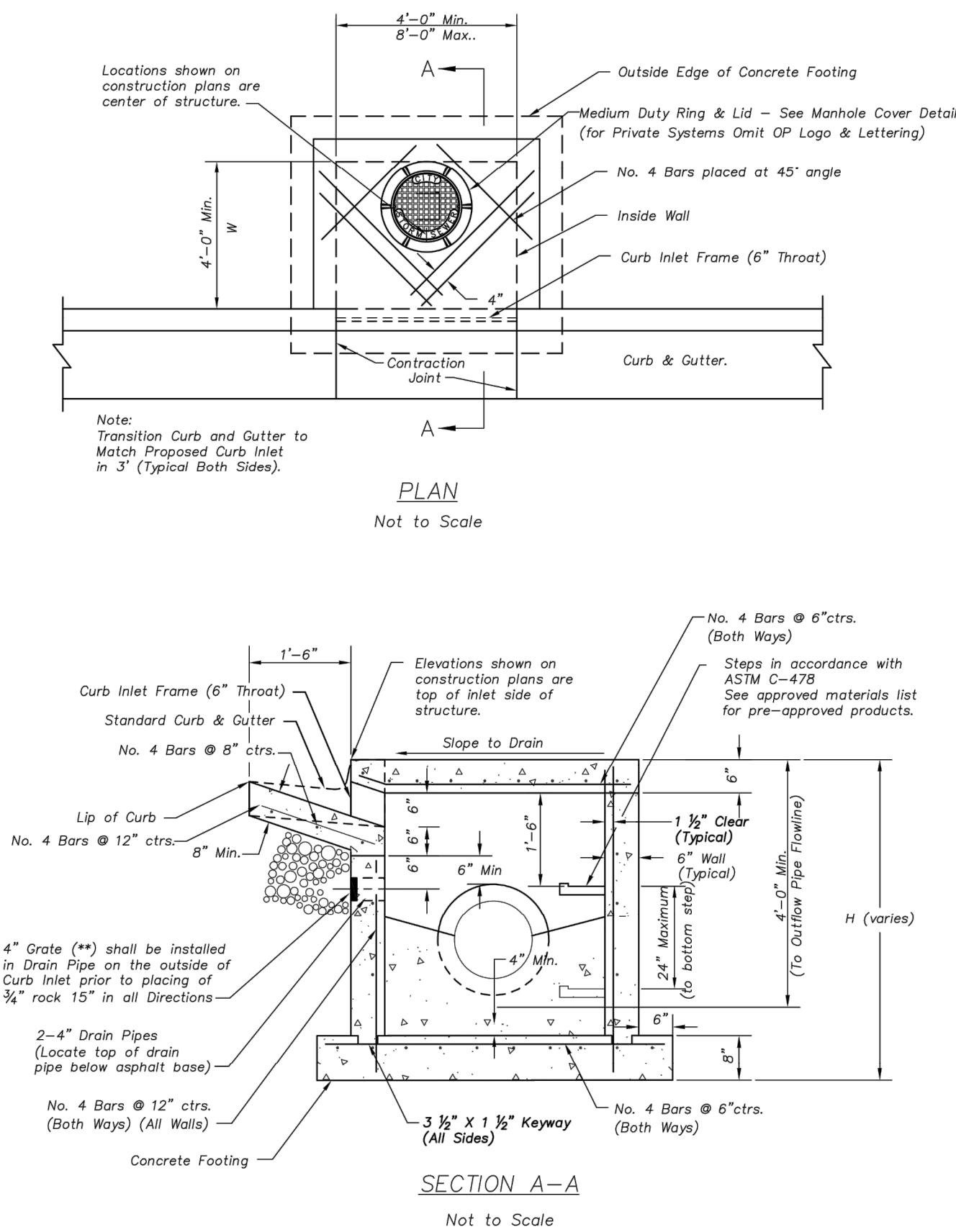
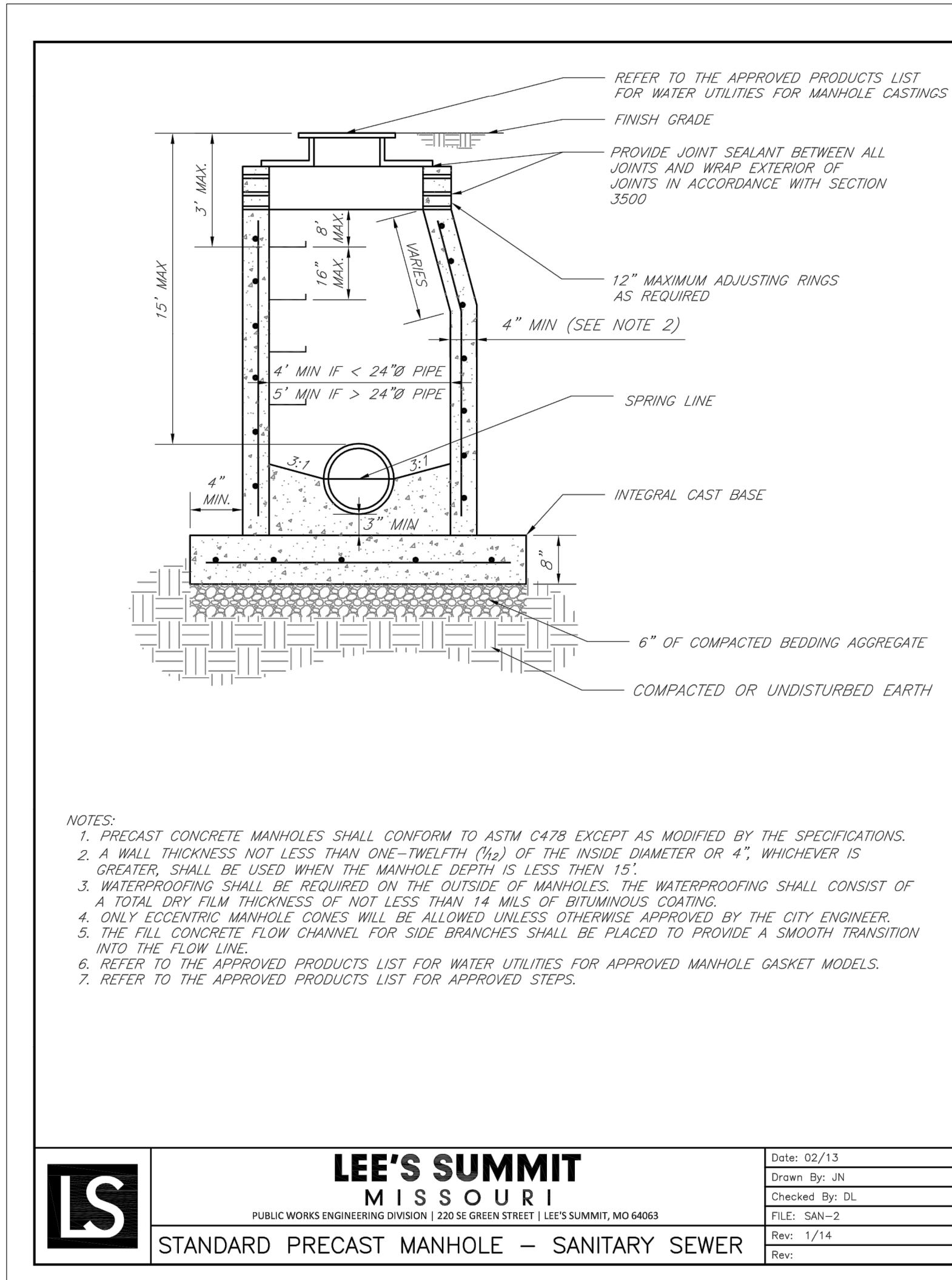
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17

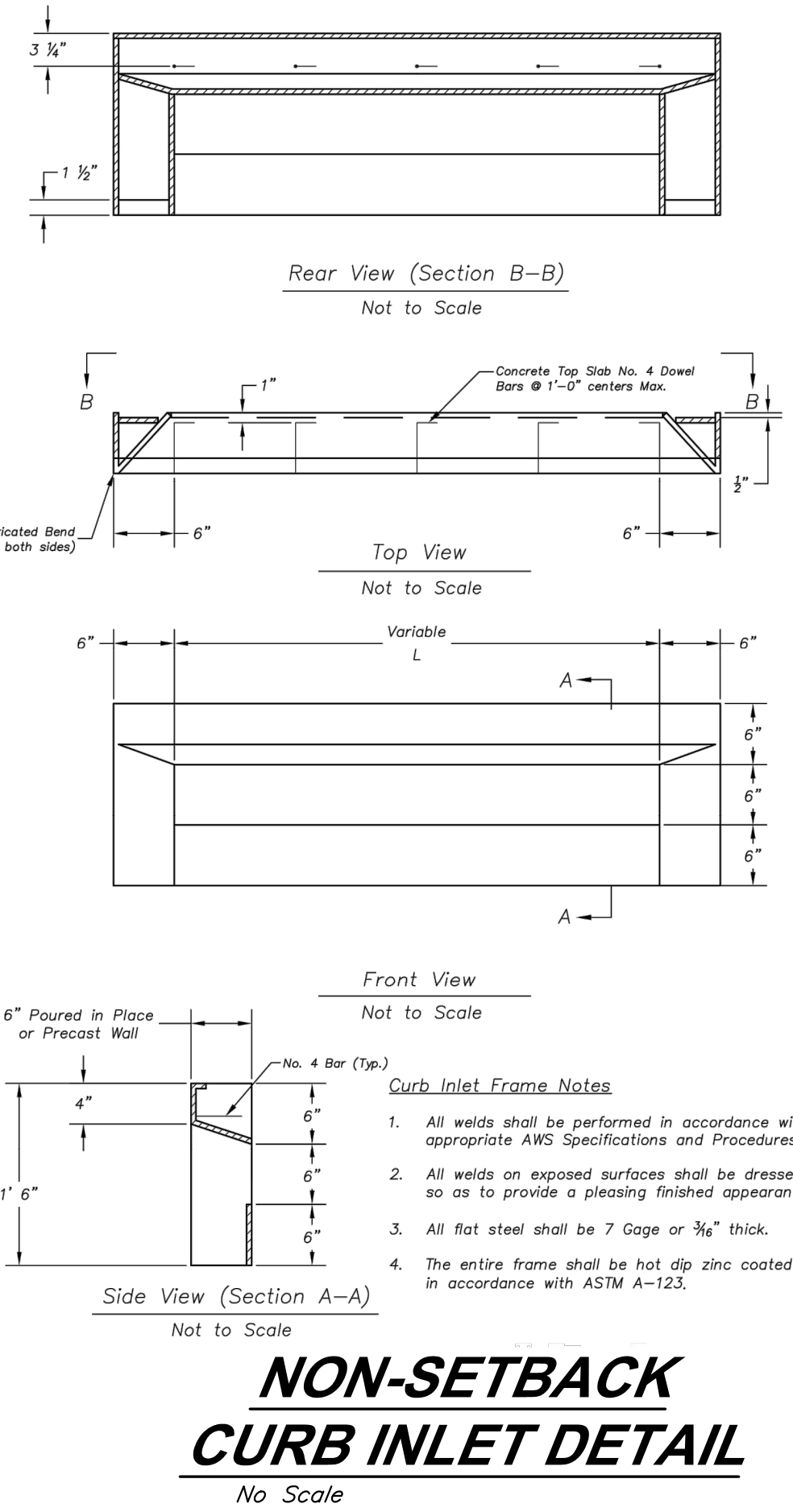
C:\12720\Civil 3D\Production Drawings\Field Storm Plans\12720C2000.dwg Layout: 18 Drainage Calculations -- Thursday, October 17, 2019, 3:23pm -- Copyright 2019, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 0000209
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	25 Year Storm										Preliminary - Subject to Change Upon Final Design										Culverts have been designed to the 100 year Storm										Indicates Future Storm Sewer										Indicates Storm for Fields																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		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Architect: 00212, Professional Engineer: 000133, Professional Land Surveyor: 000059
G:\12720\Civil\3D\Production Drawings\Field Storm Plans\12720C2200.dwg Layout: 19 Storm Sewer Details -- Thursday, October 17, 2019, 3:23pm -- Copyright 2019, George Butler Associates, Inc.
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- Non-Setback Curb Inlet Notes**
- General**
1. City of Lee's Summit Municipal Code, Design Standards, and Specifications are incorporated except as otherwise noted.
 2. All storm sewer structures shall be pre-cast or poured in place. If pre-cast structures are used for publicly financed, maintained or administered construction, the tops shall be poured in place and the wall steel shall be left exposed to a height 2' below the finish top elevation, or as directed by the City Engineer.
 3. Pre-cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects. Pre-cast shop drawings for privately financed projects are to be submitted to the Engineering Services Division of the Planning and Development Services Department upon request.
 4. Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction.
 5. On-grade inlets shall conform to the street grade. Sump inlets shall be level.
 6. The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The concrete thickness and reinforcement shown is for boxes with ("L" < "W") and ("W" < "L") less than or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.
- Concrete**
7. Concrete used in this work shall be KCMB4K, as approved by the Kansas City Metropolitan Materials Board, and shall meet the requirements of the Overland Park Municipal Code.
 8. Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.
 9. Bevel all exposed edges with 3/4" triangular mounding.
- Reinforcing Steel**
10. Reinforcing steel shall be new billet, minimum Grade 60 as per ASTM A615, and shall be bent cold.
 11. All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of +/- 1/8" shall be permitted.
 12. All lap splices not shown shall be a minimum of 40 bar diameters in length.
 13. All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
 14. All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable.
- Construction**
15. The bottom slab shall be at least 24 hours old before placing sidewalk concrete. All sidewalk forms shall remain in place a minimum of 24 hours after sidewalks are poured before removal, and after removal shall be immediately treated with membrane curing compound.
 16. All curb inlet tops are to be constructed after final curb string line has been approved by the engineer and prior to curb construction or as directed by the city engineer.
 17. Pipe connections to pre-cast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the structure.
 18. Material selection and compaction requirements for backfill around structures shall be as specified in the Manual of Infrastructure Standards for Right of Way Restoration, as promulgated by the City Engineer.



GBA
7801 Rayner Boulevard
Lenexa, KS 66219
913.492.0400
www.gbaleam.com
MO Certificate of Authority # 000133

LAND3 Studio, LLC
317 SE Main
Lee's Summit, MO 64063
www.land3studio.com
MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects
2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
MO Certificate of Authority # 201904068

HENDERSON ENGINEERS, Inc.
8345 Lenexa Drive
Lenexa, KS 66214
913.742.5000
www.he-eng.com
Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture
7837 College Boulevard, Suite 415
Overland Park, KS 66211
913.498.1550
www.finklewilliams.com
Missouri Certificate of Authority # F00453304

PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19

PROFESSIONAL SEAL:



DRAWING TITLE:

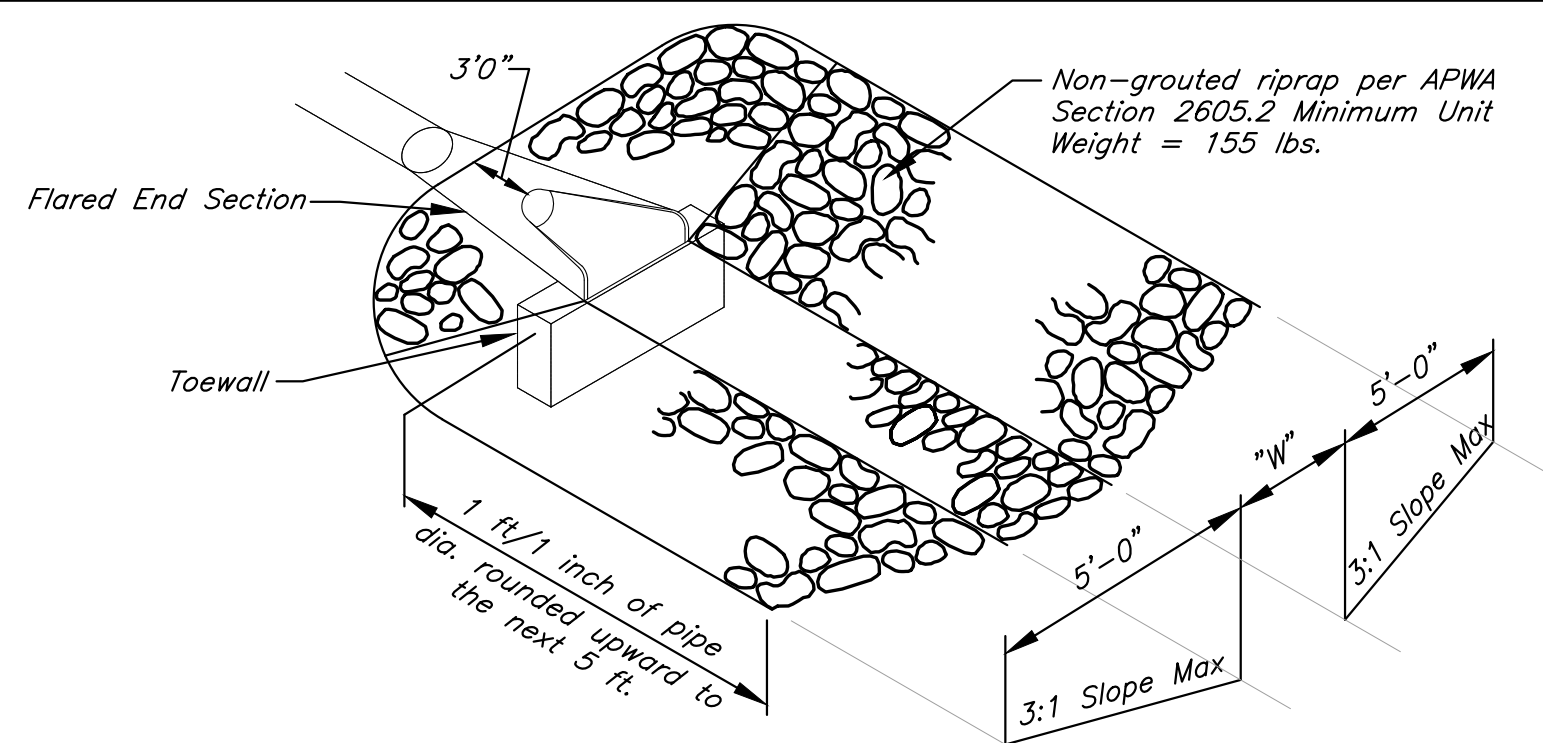
Storm Sewer Details

JOB NO: 1197 SCALE:

DATE: 10.03.2019 DRAWN BY: GBA

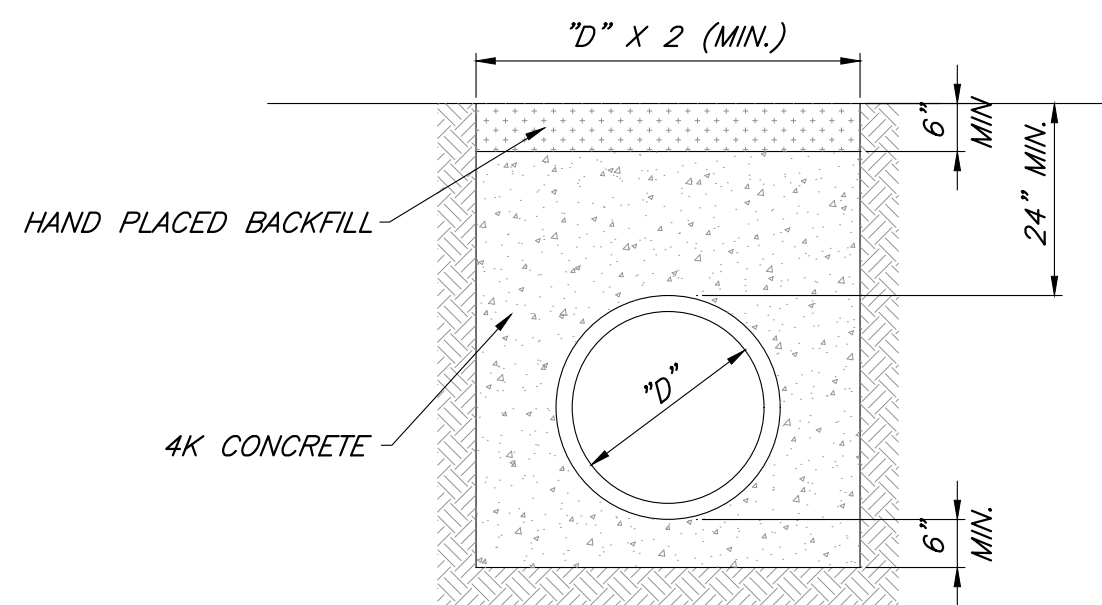
SHEET NO:

Architect: 00212, Professional Engineer: 000133, Professional Land Surveyor: 000059
G:\12720\Civil_3D\Production Drawings\Field Storm Plans\12720C2200.dwg Layout: 20 Storm Sewer Details -- Thursday October 17, 2019, 3:23pm -- Copyright 2019, George Butler Associates, Inc.
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OUTLET EROSION PROTECTION - RIPRAP

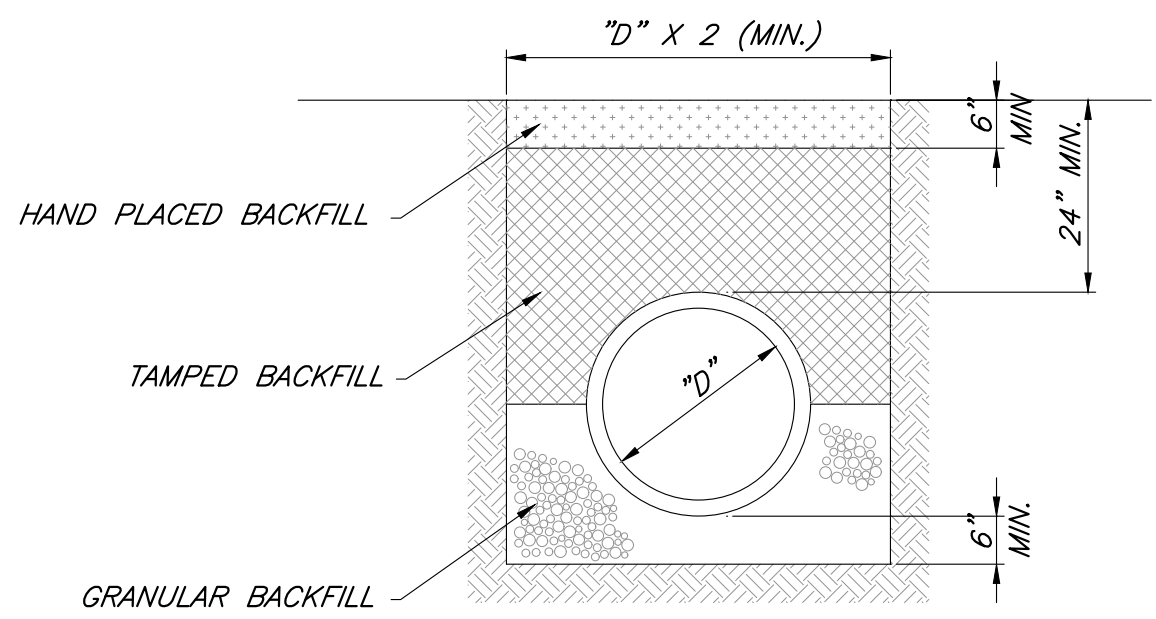
Not to Scale



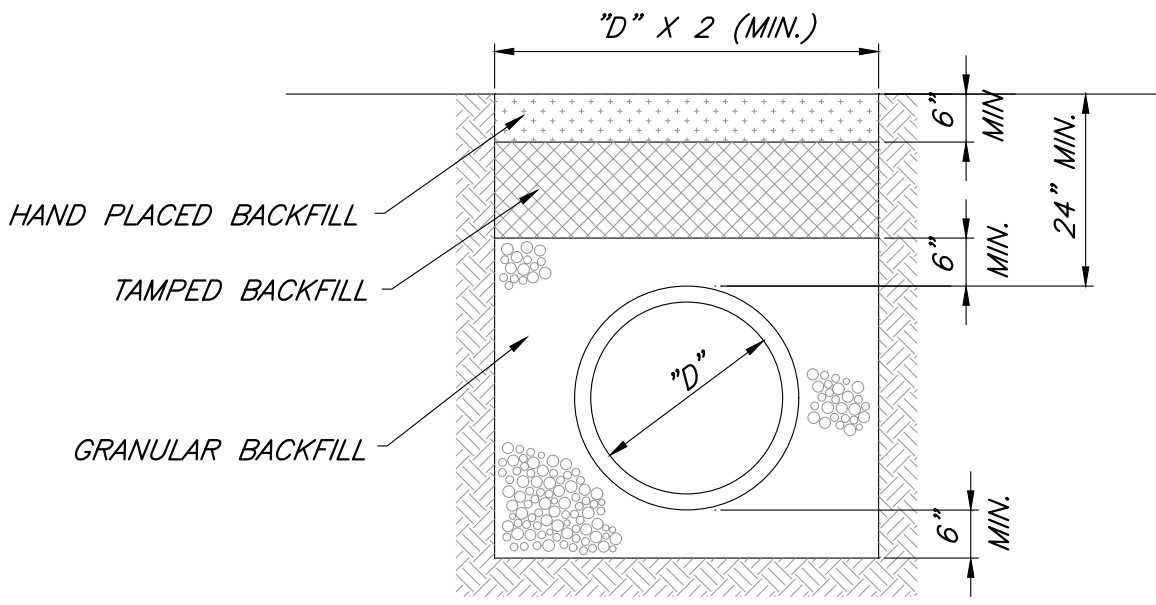
CONCRETE ENCASEMENT CLASS A

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 AA MR-5 COMPACTION.
4. ALL PIPE SHALL BE INSPECTED PRIOR TO BACKFILL. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE CONTRACTORS EXPENSE.



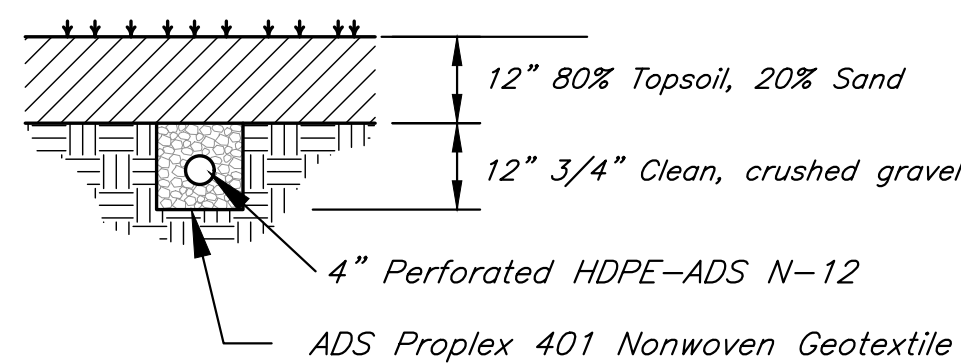
FIRST CLASS BEDDING (RCP) CLASS B



HDPE/PVC PIPE BEDDING CLASS C

PIPE BEDDING DETAILS

No Scale

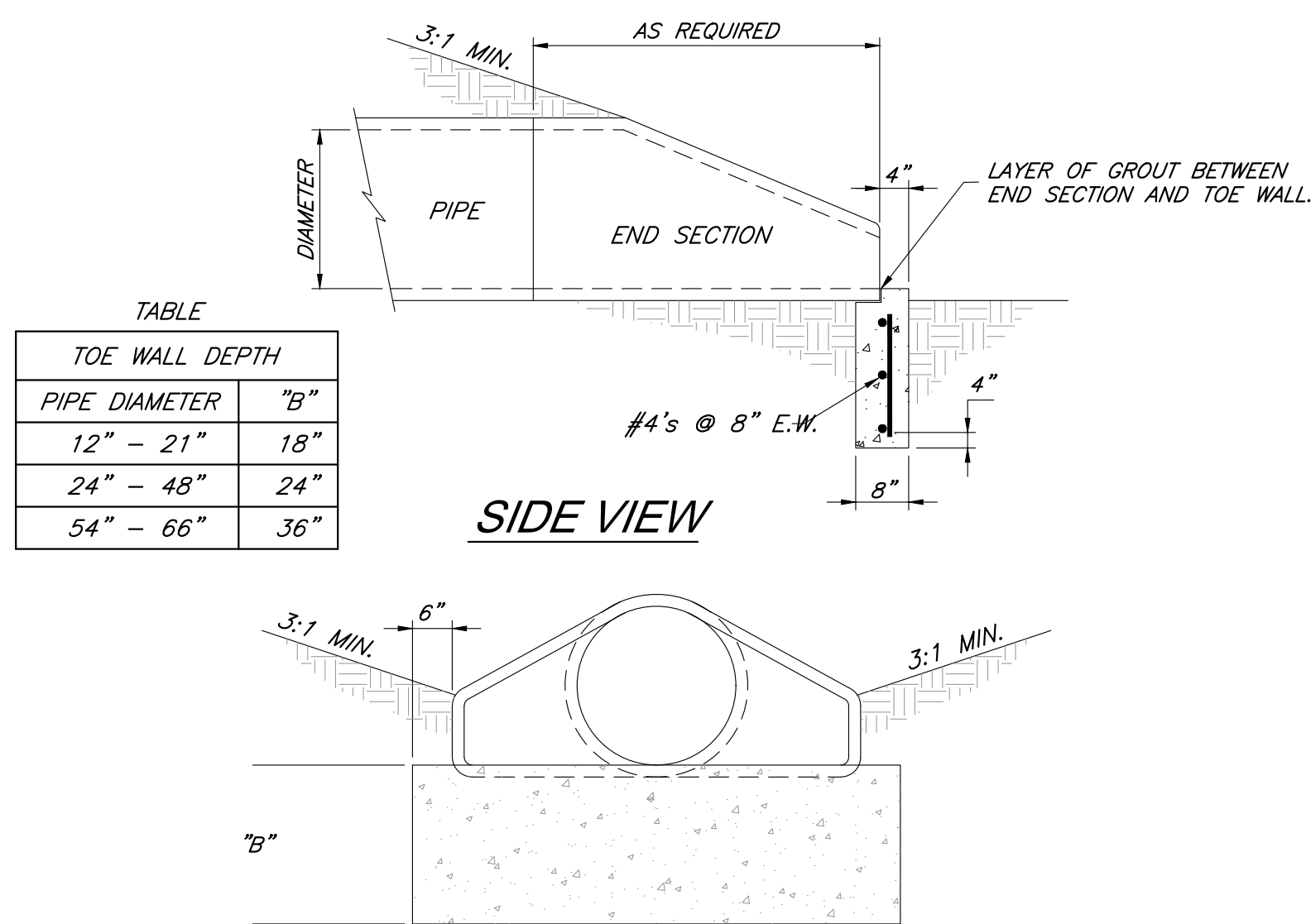


TYPICAL UNDERDRAIN DETAIL

Not to Scale

END SECTION NOTES:

1. THE DEPTH OF THE TOE WALL SHALL BE PER TABLE. IF BEDROCK IS ENCOUNTERED A MINIMUM OF 12" INTO BEDROCK IS REQUIRED.
2. ALL CONCRETE SHALL BE KOMMB-4K.



TOE WALL DEPTH	PIPE DIAMETER
12" - 21"	18"
24" - 48"	24"
54" - 66"	36"

SIDE VIEW

FRONT VIEW

END SECTION DETAIL

NOT TO SCALE

Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS

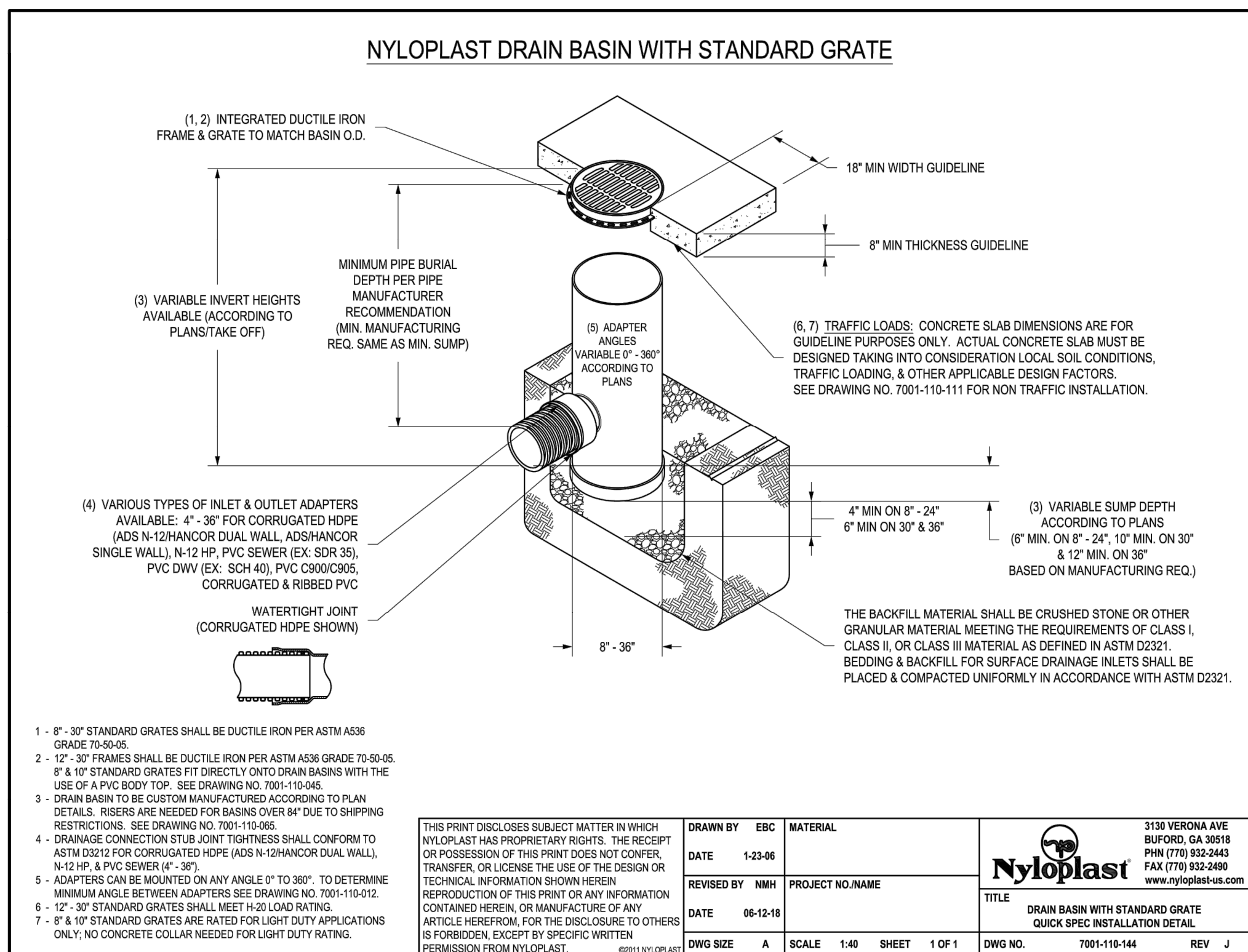
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D2321 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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- 1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 4 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 5 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 6 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 7 - 12" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.

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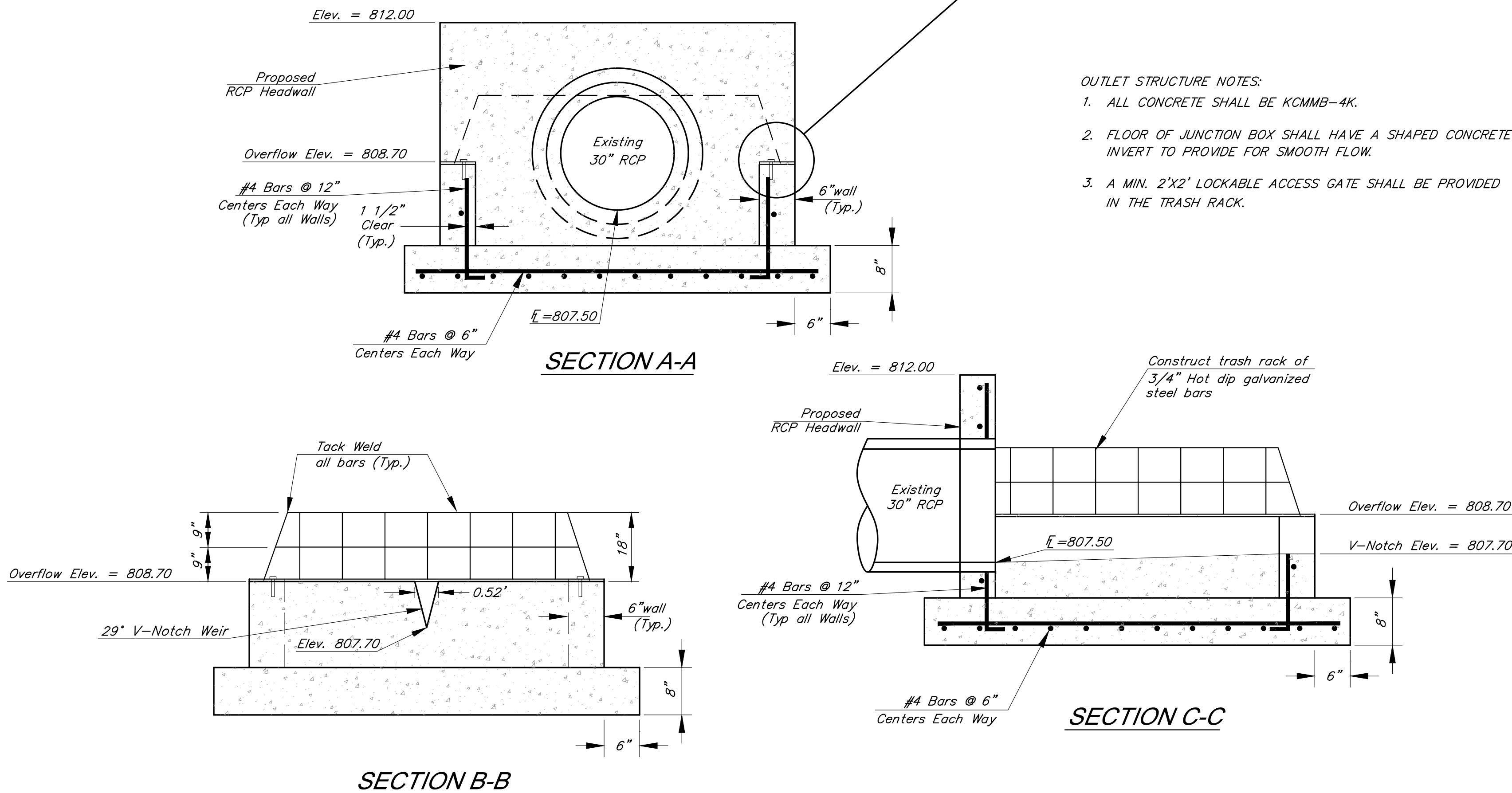
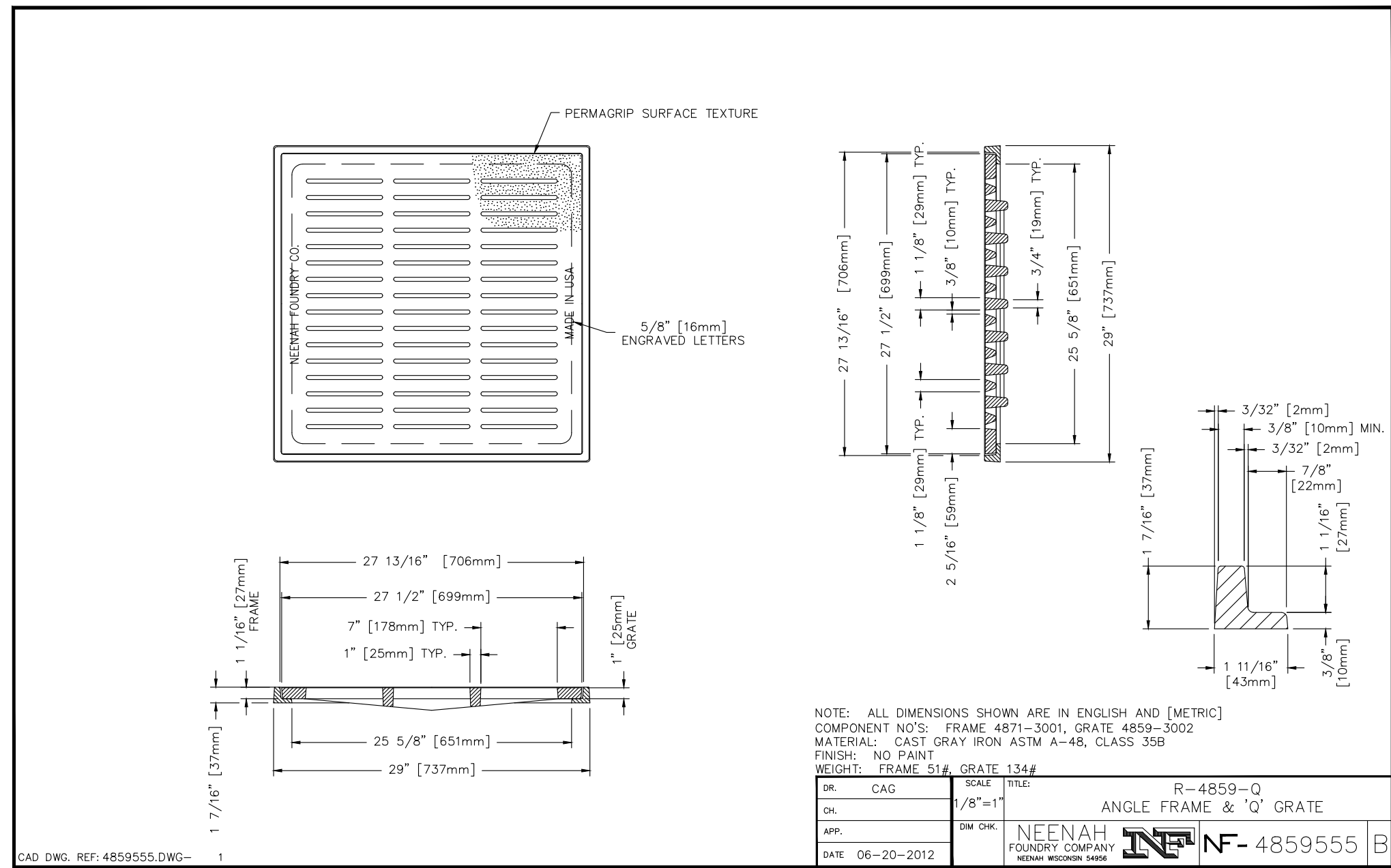
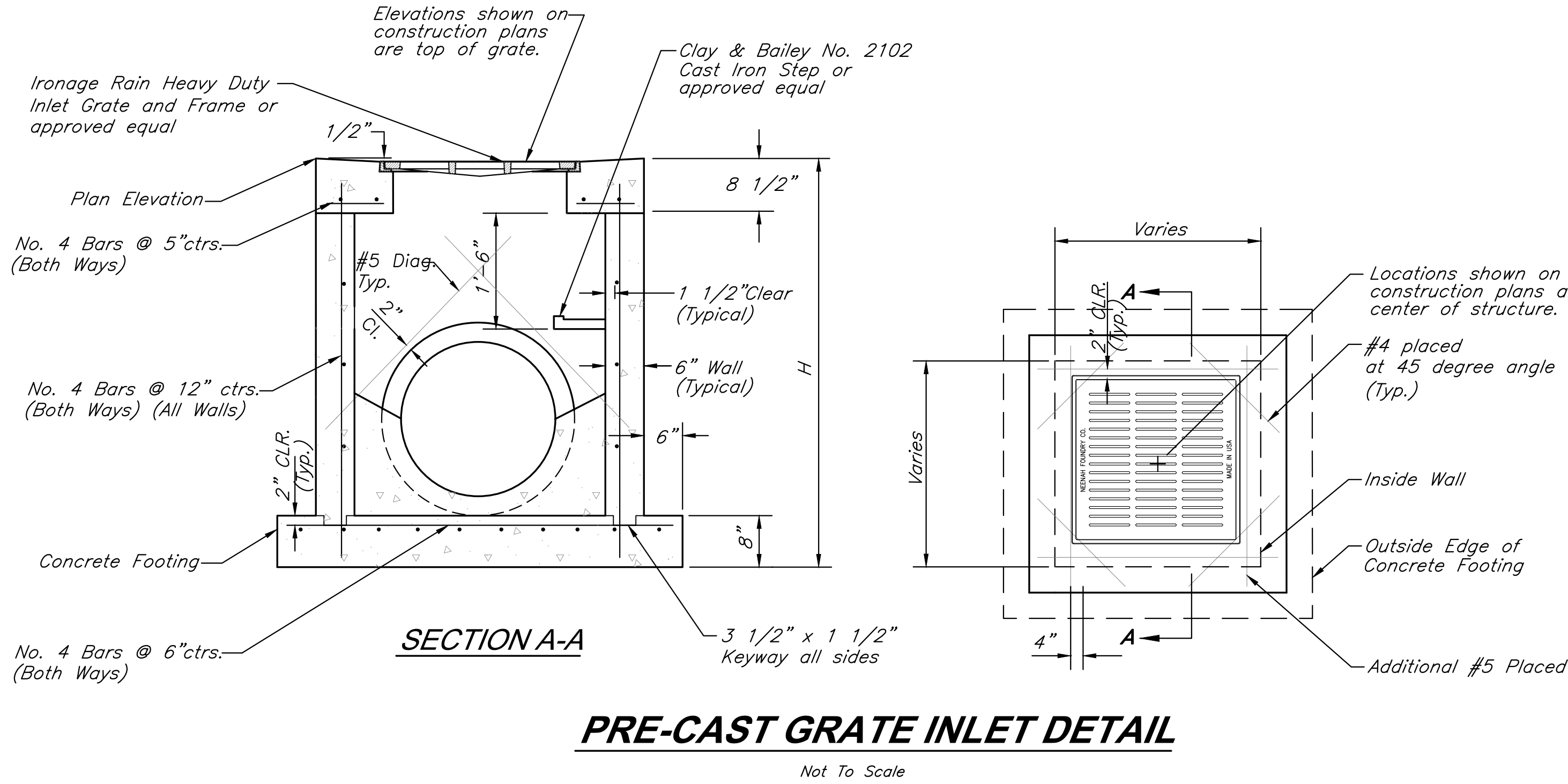
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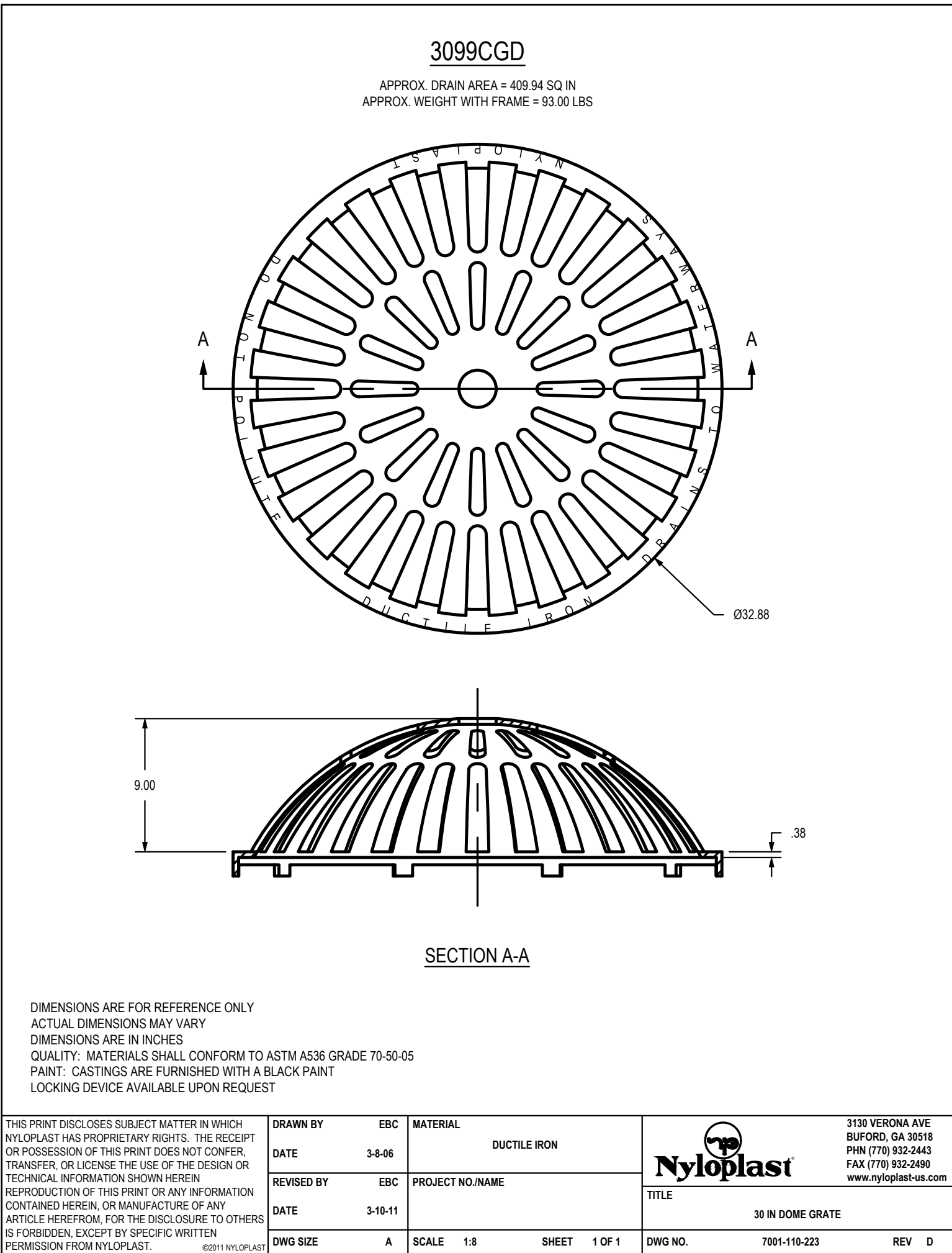
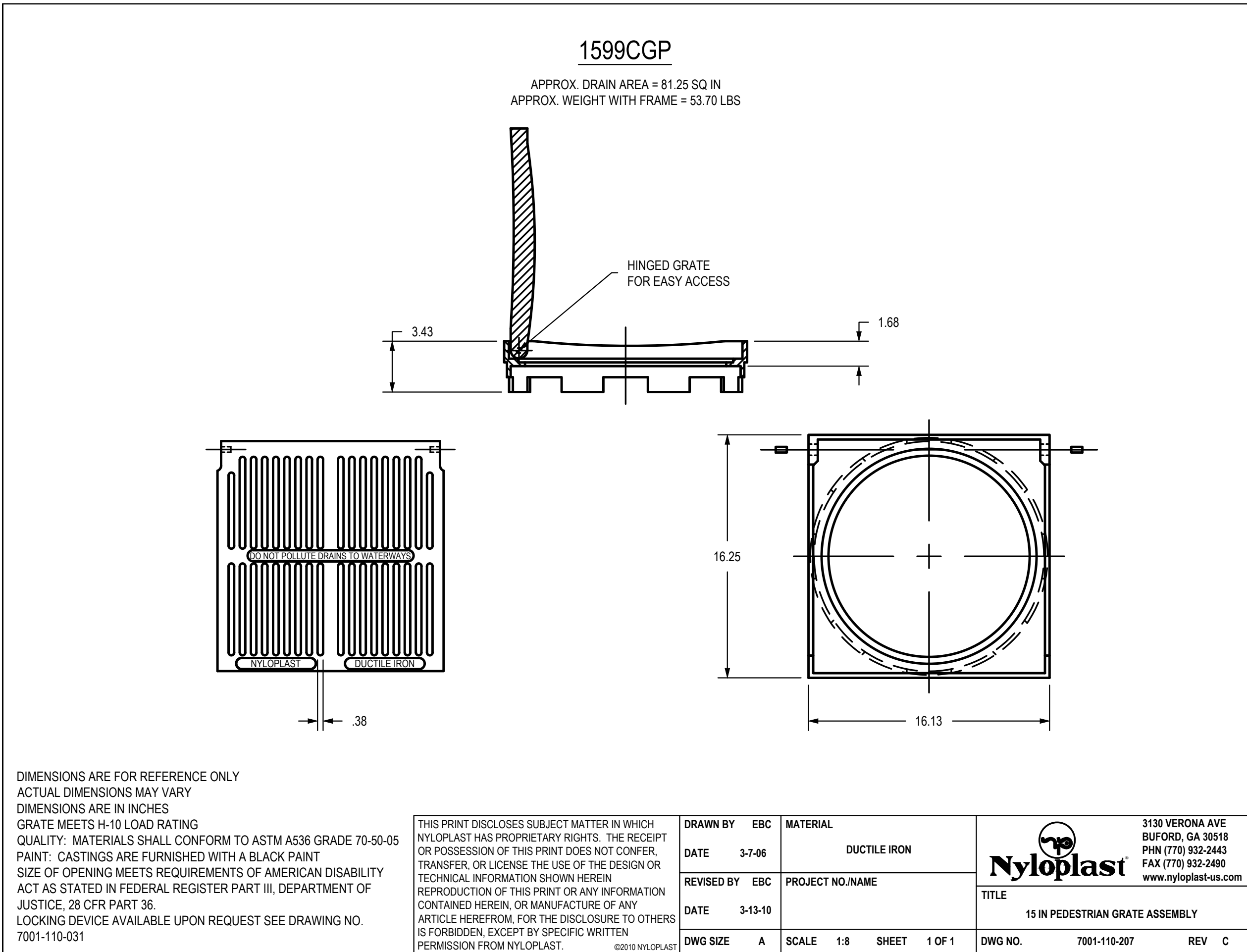
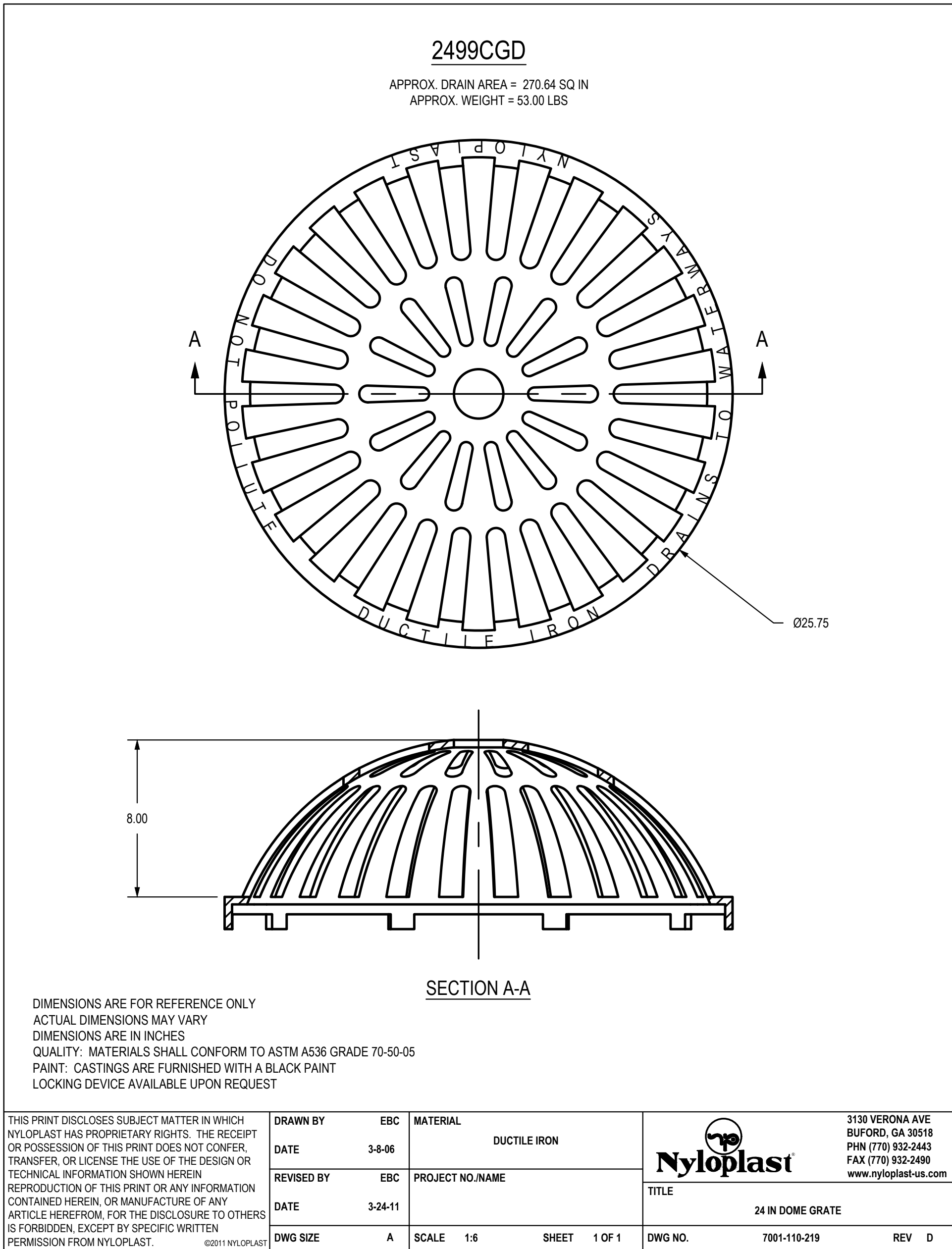
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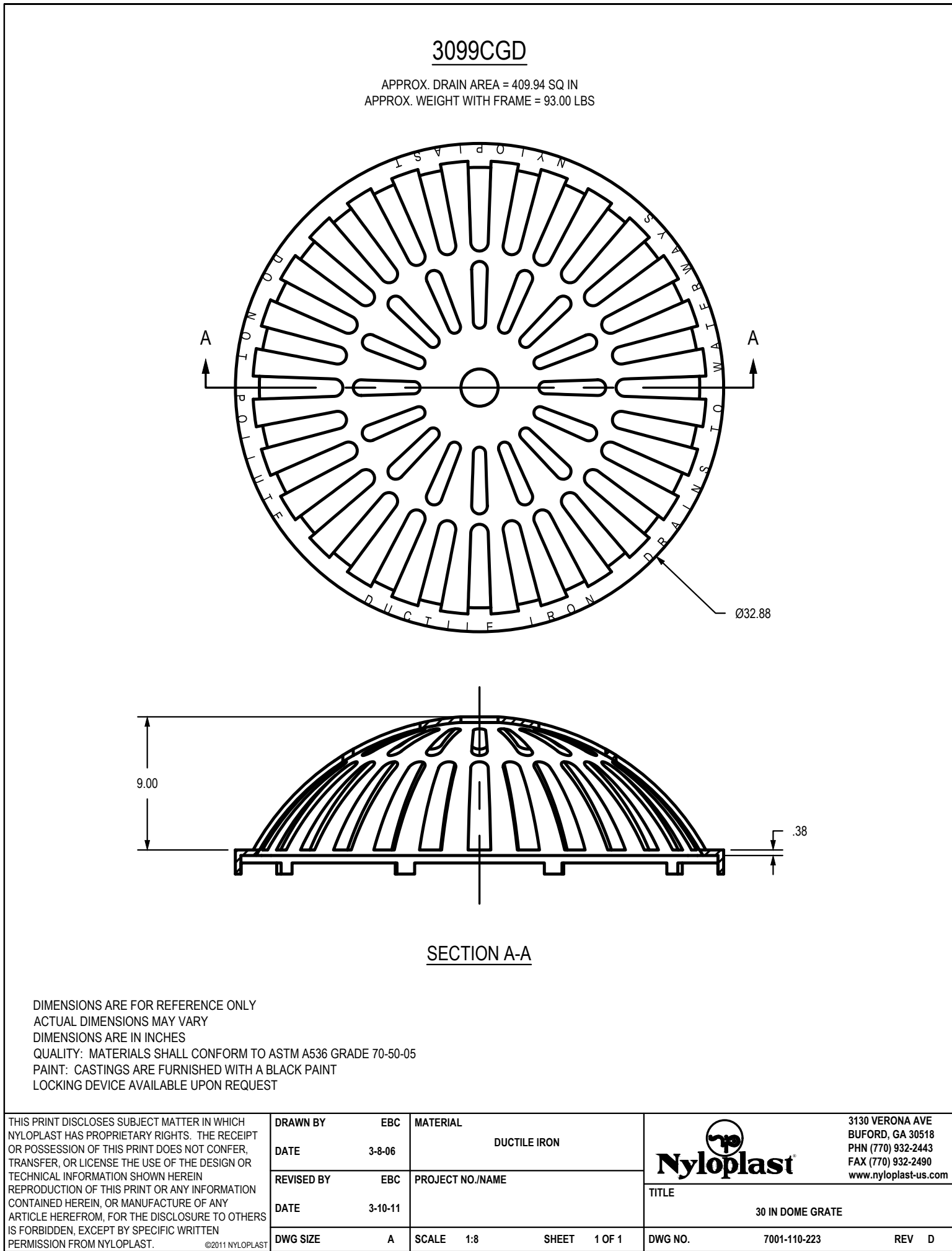
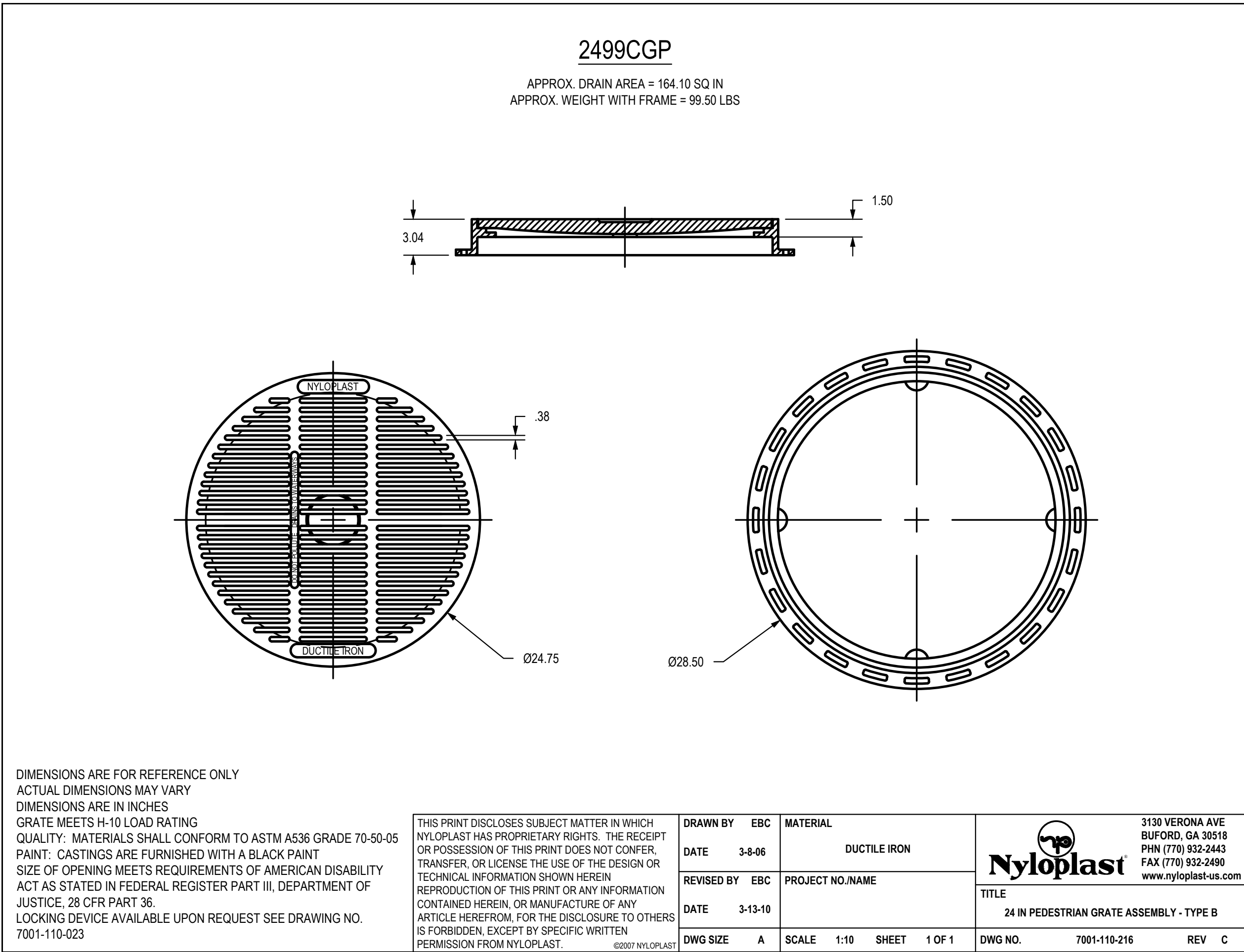
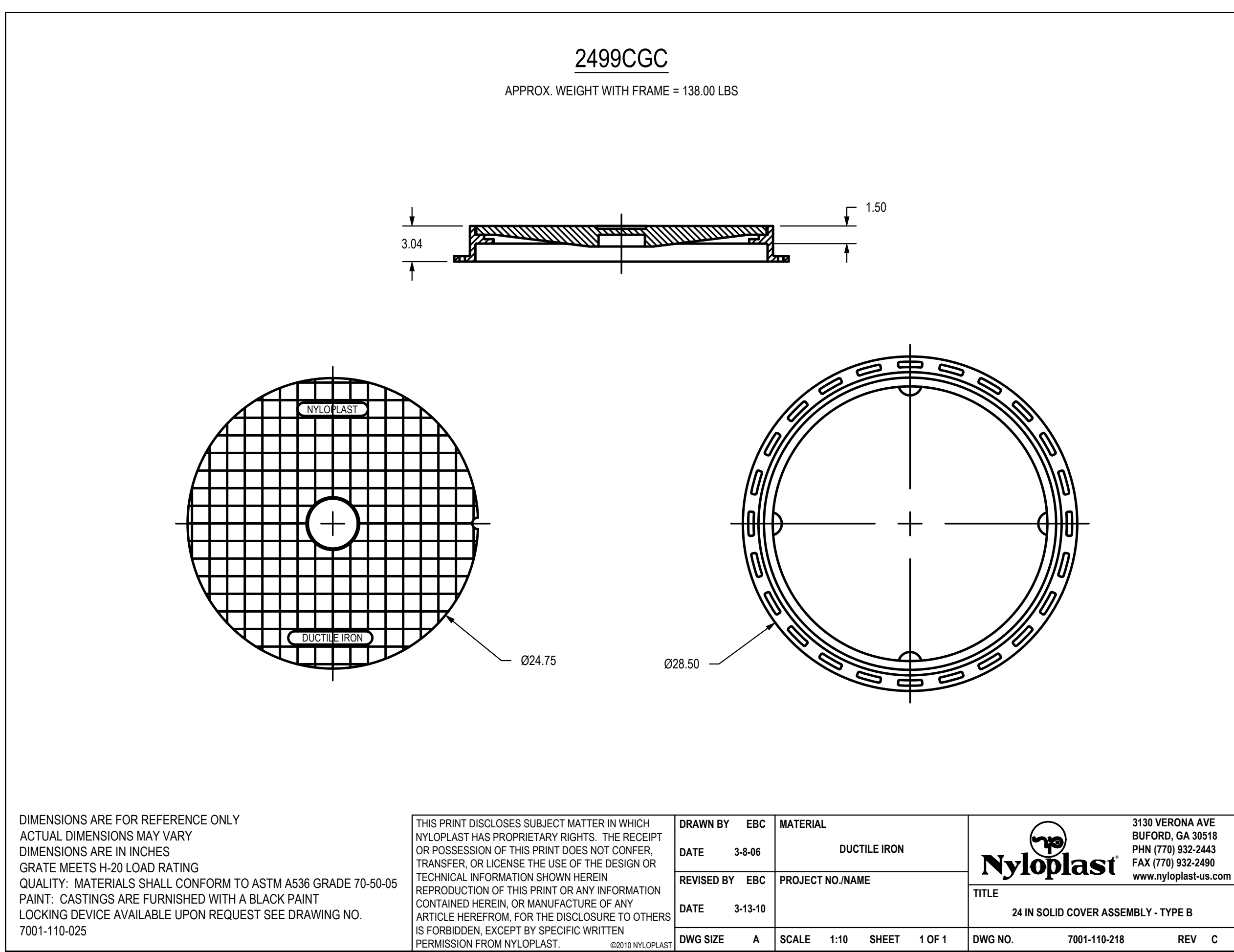
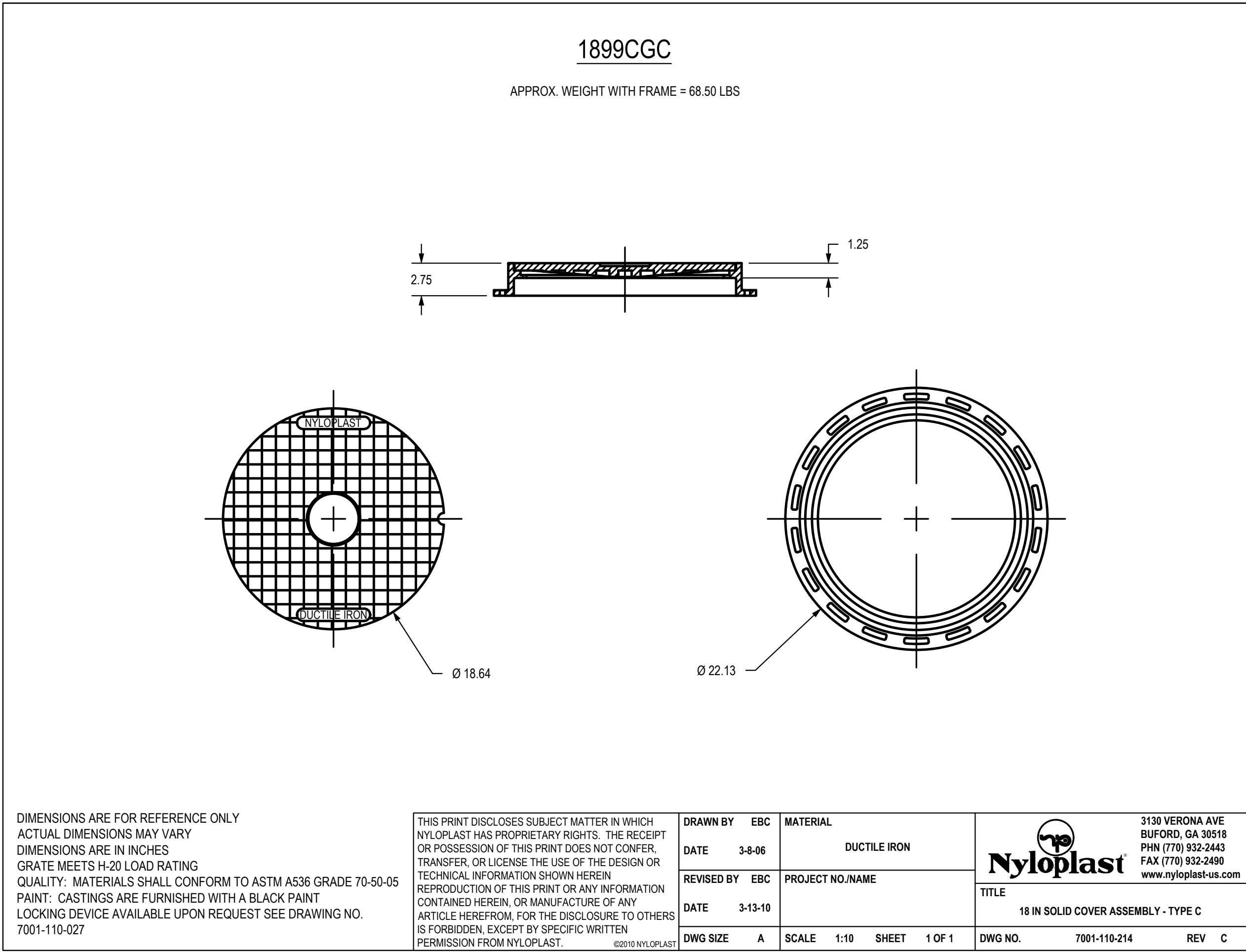
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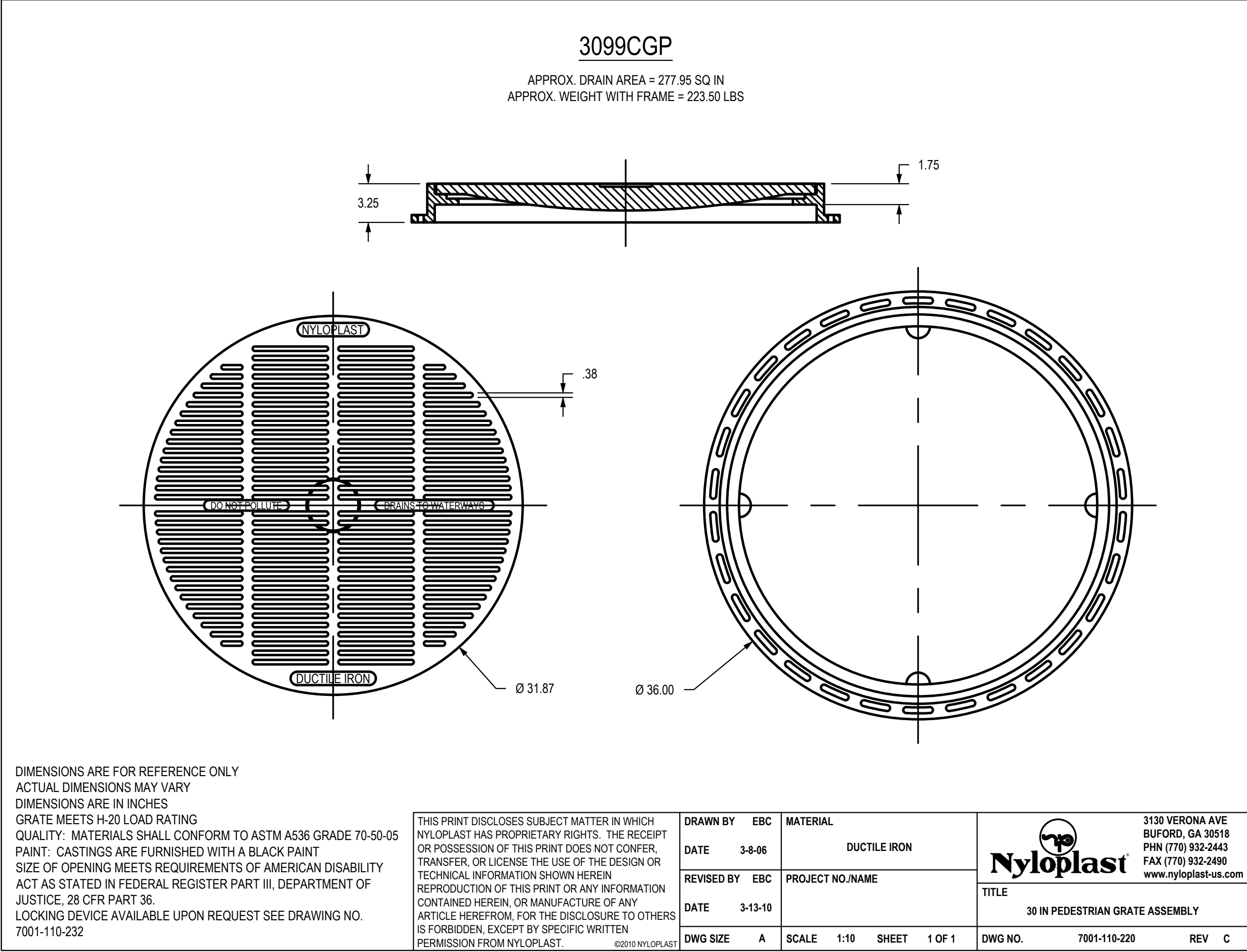
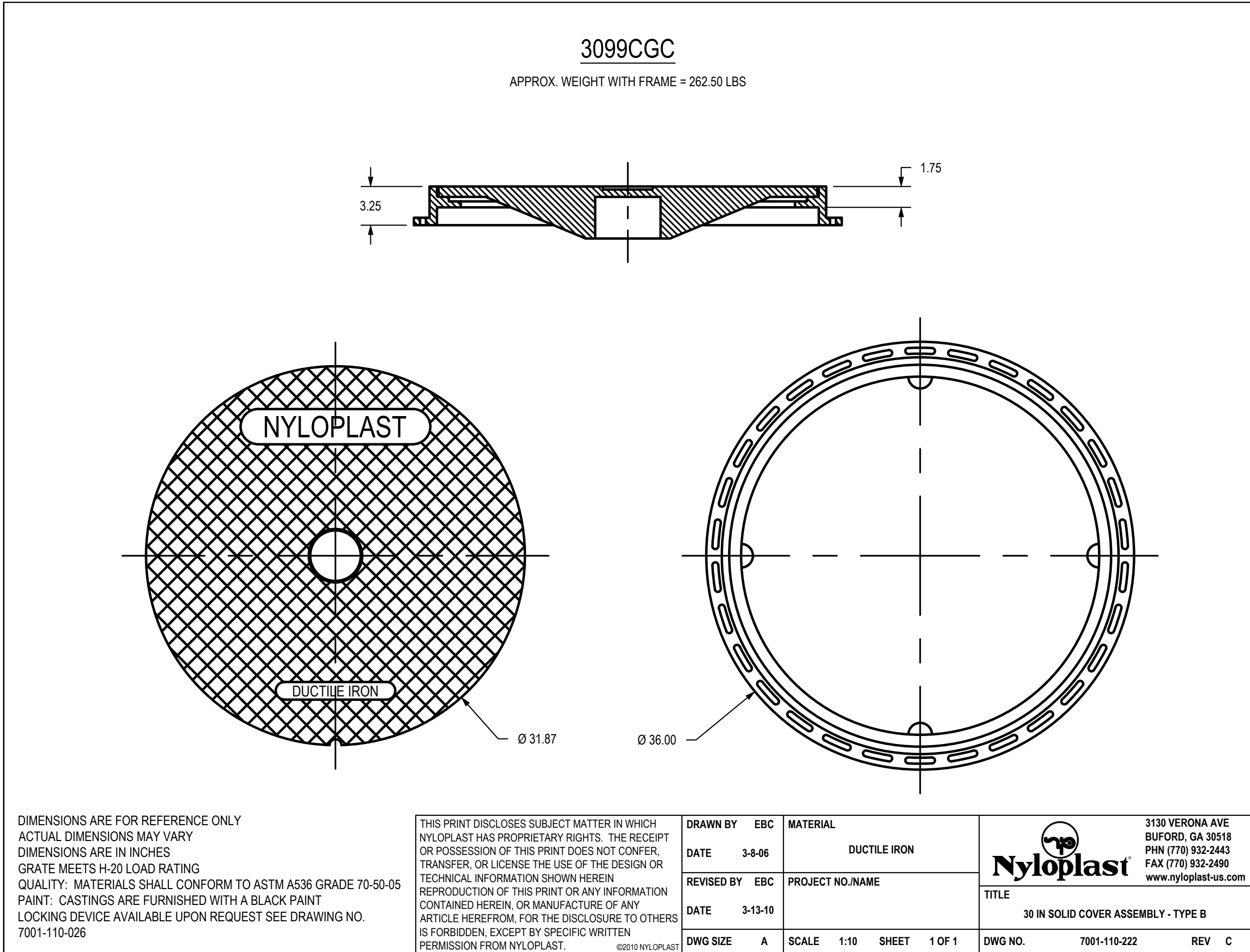
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