

Agenda

Huntington Planning Commission Monday, August 5, 2024 – 5:30pm

- 1. Preliminaries
- 2. Call to Order
- 3. Roll Call
- 4. Approval of the July 2024 Minutes
- 5. New Business

PC 24-05

Issue: Plan review of a proposal to subdivide a ± 1.46 acre parcel from the 24.27 acre parcel at 2300 Third Avenue and develop two street improvements. The property is located on the north side of 3rd Avenue and between the railroad tracks and 24th Street and zoned I-1 Light Industrial/Commercial District.

Owner/Petitioner: Huntington Municipal Development Authority, 800 5th Avenue, Huntington, WV 25701

- 6. Good and Welfare
- 7. Other Business or Announcements
- 8. Adjournment

Minutes Huntington Planning Commission July 1, 2024

A meeting of the City of Huntington Planning Commission was held on July 1, 2024 at 5:30 p.m. in the City Hall Council Chambers. Ms. Walling called the meeting to order.

Members Present: Sharon Pell, Holly Smith Mount, Sarah Walling, Ursulette Ward, Ford Rucker, Stephanie

Bryant

Members Absent: Brian Gallagher, Carl Eastham, Charles Shaw

Staff Present: Stephanie Petruso, Senior Planner

Ericka Hernandez, Assistant City Attorney

Steve Curry, Associate Planner

Ms. Mount made a motion to adopt June 3, 2024 Minutes. *Ms. Bryant* seconded motion. All were in favor, Minutes were approved.

Old Business

PC 24-04

Issue: A petition to rezone property from R-1 Single-Family Residential District to C-2 Highway Commercial District. The properties are located on the southeastern corner of Washington Boulevard and Parkway Drive and consist of four parcels owned by ReClaim Church including the main building, fellowship center, and parking lot.

Petitioner/Property Owner: ReClaim Church, Inc., 3135 Washington Blvd., Huntington, WV 25705 37408

Mr. Curry read the Staff Report.

Ms. Walling asked for the representative of the petitioner speak on behalf of the petition.

Pastor Corey Adkins, speaking on behalf of ReClaim Church, gave Planning Commission members and staff handouts that provide answers to the questions laid out in the supplemental staff report.

Pastor Adkins asked the board to change the petition to rezone the church's parcels to C-1 Neighborhood Commercial instead of C-2 Highway Commercial as was originally petitioned and believed it is a good compromise that helps everyone.

Pastor Adkins answered the additional questions asked of the petitioner in the supplemental staff report. He said rezoning to C-1 would be consistent with the comprehensive plan's land use designation of the area. He explained that there has been an increase in the amount of homelessness in the area and he has found needles and syringes around the church. He claimed people have also broken into the church. He explained there has also been an increase in general traffic in the area.

Pastor Adkins continued that the rezoning to a C-1 would create a good transition between the existing C-2 District on Route 60 and the residential areas behind the church and did not believe it will decrease property values in the area.

Pastor Adkins said the rezoning will allow him to fill a vacant building with a business that will put up security measures that will help deter homeless and drug users from loitering on the church's property and surrounding area. He commented the building will look nicer once the business moves in and will add to the community.

Pastor Adkins explained the hardship faced from the current zoning is the inability to use their building for the purpose of long-term sustainability of the church and current zoning prevents the church from engaging in a partnership with a local business. The building had been vacant for 7 months and Pastor Adkins said that the property was well-suited for the new zoning.

Ms. Walling asked Pastor Adkins about the decline in membership at the church that was referenced in the previous month's meeting.

Pastor Adkins clarified that the decline occurred among the Wesleyan Church as a whole, not specifically ReClaim Church.

Ms. Walling asked Pastor Adkins to remind the board what was the building's previous use.

Pastor Adkins said it was a daycare.

No further discussion.

Ms. Mount motioned to pass along the petition to City Council with a favorable recommendation.

Ms. Ward seconded.

Ms. Walling commented that the decline of the previous church's members was something that the comprehensive plan did not anticipate and that in any event, an occupied building is always more preferable to a vacant one.

Ms. Hernandez pointed out that the petition is currently to rezone to C-2.

The board agreed to amend the motion to a C-1 rezoning.

All were in favor, the amended motion was approved.

Ms. Mount motioned to adjourn.

Meeting adjourned at 5:55 P.M.

Data approved

Date approved			
Chairperson:		Prepared by:	
	Sarah Walling, Vice Chair	1	Steve Curry, Associate Planner

City of Huntington Planning Commission

August 5, 2024

Staff Report: A petition for a Major Subdivision to subdivide an approximately 1.46 acre parcel and develop two street improvements.

PC 24-05

Issue: Plan review of a proposal to subdivide a ± 1.46 acre parcel from the 24.27 acre parcel at 2300 Third Avenue and develop two street improvements. The property is located on the north side of 3rd Avenue and between the railroad tracks and 24th Street and zoned I-1 Light Industrial/Commercial District.

Owner/Petitioner: Huntington Municipal Development Authority, 800 5th Avenue, Huntington, WV 25701

Introduction

The Huntington Municipal Development Authority (HMDA) is proposing to subdivide a ± 1.46 acre parcel from the remaining 24.27 acre parcel at 2300 Third Avenue. The full parcel is located on the north and south sides of 3rd Avenue and between the railroad tracks and 24th Street. The proposed within the subdivided parcel is developable acres on the north side of 3rd Avenue.

Existing Conditions

This property is currently vacant except for one remaining building, all other structures have been demolished and is known as the historical site of the American Car Foundry business.

Proposed Conditions

The petitioner is proposing to subdivide a single ± 1.46 acre parcel from the current 24.27 acre property. This subdivision only concerns the portion of the property north of

3rd Avenue. The parcel to be created includes the remaining structure with renovations and additions and the creation of a parking lot. In addition to the subdivision the proposal includes the proposal of two new publicly owned streets to the development.

The street improvements include the following characteristics:

Foundry Avenue

- Running East West, parallel to 3rd
 Avenue
- Two 12 foot travel lanes
- 49.2 feet of right of way
- 2 foot wide gutter pan with 6 inch curb
- Proposed 8 inch sanitary sewer line and separate stormwater line

23rd Street

- Running North South, intersects with 3rd Avenue
- Two 12 foot travel lanes
- 49.2 feet of right of way
- 2 foot wide gutter pan with 6 inch curb
- Proposed 8 inch sanitary sewer line and separate stormwater line

The roadway engineers have also completed a drainage report and a plan for acceptance of the roadways into the City network.

The initial step in accepting these roads includes this preliminary review of the roadways' design and location. Once approved, the development can proceed and will be required to be built to city and state

standards. Once construction is complete, the City Public Works office will engage an engineer to complete a final inspection to ensure the roads have been developed to a standard that the City will accept and at that point the roadways will be dedicated.

Due to budgetary restrictions, the roadway does not propose any sidewalks or lighting adjacent to travel lanes on either side. The right of way is wide enough to allow for construction of sidewalks and the conduit to allow for lighting at a later date depending on the development use.

Development Ordinance

The City of Huntington's Development Ordinance is triggered by new commercial, industrial, governmental/public/non-profit, religious, or multi-family residential development of one acre or more; and any size development requiring new streets or extension of the local governmental facilities, or the creation of any public improvements.

The purpose of the Development Ordinance 1375.01 is to "provide for the harmonious development of the City of Huntington; to provide wholesome living environments, including sound building sites, for the residents of the City; to effect the coordination of roads in developments with other existing or planned roads, to aid in coordinating development plans municipal and state plans; to provide adequate open space for light, air, and recreation; to conserve natural, scenic, historical, and recreational areas; to aid in enhancing the public health, safety, and welfare by requiring that facilities, such as roads, water mains, sewers, and drainage facilities, be installed within developments

prior to the sale of lots or parcels in order that excessive public expenditures for such facilities will be avoided."

The development ordinance also lays out requirements for lots and street designs according to Section 1387.06 Lots and Section 1389.04 Street design requirements. These codes are referenced in the staff comments below.

Comprehensive Plan

The Future Land Use map of the Plan2025 Comprehensive Plan designates this area as Light Industrial and Commercial. This designation provides a lower intensity industrial district that allows creative reuse of industrial sites that can complement certain residential areas. Characteristics include:

- Medium sized lots near railroad or riverfront
- Industrial properties that are close to residential uses
- Allows mixed light industrial, commercial, and residential uses

Department/Agency Comments

Major subdivisions and projects that fall under the development ordinance must also be reviewed by the Public Works Director, the Cabell Huntington Health Department, and the Huntington Sanitary Board to ensure that the proposed development will not put a strain on roadways, utilities, and city services.

- Public Works: Plans have been reviewed and design meets City criteria with minor changes.
- Cabell Huntington Health Department: Plans to be submitted after review by Huntington Sanitary Board and WV American Water.

- Huntington Sanitary Board: Awaiting final approval.
- AEP: Plans submitted. Awaiting comment.
- Huntington Stormwater Quality Board: Plans to be submitted.
- Mountaineer Gas: No issues.
- Thundercloud: Coordinating for future connectivity to development.
- WV American Water: Coordinating to service facility.
- WV Department of Environmental Protection: Application to be submitted after stormwater design is completed and limits of disturbance are finalized.
- WV Division of Highways: Application has been submitted. Awaiting approval.
- WV State Fire Marshal: Plan submitted. Awaiting approval.

Staff Comments

In order to review these items which are interrelated but address their unique issues, staff recommends taking their review in two phases. First reviewing the subdivision and then second, the roadway creation, comments are reflected as such below.

Subdivision:

As this area is designated as a Light Industrial District in Plan2025, Staff does not believe that this proposal to subdivide this property goes against the Comprehensive Plan.

In addition, this property has been part of several planning efforts involving the community to determine future redevelopment opportunities in line with the Comprehensive Plan and to support development that can occur even with the

restrictions from the former use of this property as heavy industrial. One such plan is a revised version from the very comprehensive Brownfields Redevelopment Plan, Huntington Brownfields Innovation Zone (completed in September 2017).

https://www.cityofhuntington.com/assets/pd f/2017 0922 HUNT Highlawn%20Report %20FINAL.pdf

According to Section 1387.06 Lots:

The following regulations shall govern the design and layout of lots:

A. The lot arrangement and design shall be such that all lots will provide satisfactory building sites, properly related to topography and the character of surrounding development.

B. All lots shall conform to or exceed the requirements of these development regulations and the zoning district requirements for the district in which they are located and the use for which they are intended.

Please see the following requirements for Lot creation and the proposed lot being developed:

Minimum Lot Area in	Proposed Lot Area:
I-1: 3000 sf	1.46 acres
C. Each lot shall front	Proposed: 23 rd Street
on a paved street.	
D. All side lot lines	Proposed: Met
shall be at right angles	
to street lines	
F. No lot shall have a	Proposed depth: 202 ft.
depth of less than one	Proposed width: 314 ft.
hundred twenty (120)	
feet	

Based on this review the subdivision of the resulting lot looks to meet the requirements of the Zoning and Development Ordinance.

The proposed use of the resulting parcel is a lease to a unit of Marshall University Advanced Manufacturing Center which would not require City of Huntington Plan review due to being owned by a public entity.

The current plan is a continuation of a larger subdivision, roadway network creation, and redevelopment plan that will include other parts of this property to the north and south of this site but due to the requirement to have lots front onto a paved street per Development Ordinance 1387.06(C), this section of the plan is being finalized now.

Additionally, future development of this area would potentially result in lots that are over one acre, requiring development on all remaining lots to go before the Planning Commission for further plan review before they could be approved and any building permits could be obtained. At that point, Planning staff and partner agencies will be able to provide comment on and react to any proposed development on the site. These future meetings will provide additional opportunities for public input and comment on proposals for this site.

Street Design Approval:

According to the development ordinance, new street construction should conform with Section 1389.04 Street design requirements. Key elements of this review include:

- Street sub-surface and surface materials
- Curbs, gutters and drainage
- Street naming conventions
- Sidewalks and Walkway/Street Lighting
- Utility Provisions
- Drainage Improvements.

The existing plan looks to meet preliminary requirements for these requirements or will have to by the time of the roadway dedication.

The Planning Commission can review the drainage report, detailed roadway designs, and inquire about traffic impact studies that have been done to gather more information about the roadways that are being proposed. At this time the plan does not show any lighting or sidewalk improvements.

According to Section 1387.05.B

Public sidewalks, walkways may be required for all commercial and industrial development subject to the approval of the Planning Commission.

The Planning Commission may inquire about pedestrian improvements such as sidewalks, lighting, and street trees as part of the right of way development for this project and determine whether they will be required as part of the design. The petitioner states that due to budgetary restraints lighting and sidewalks are not included at this time but did make accommodations including right of way width and conduit space for lighting at a later date. The development will also include lighting. Consideration was given depending on the end user of development sidewalks may or may not be preferred.

Staff recommends encouraging sidewalk provisions wherever feasible to encourage safe connectivity for pedestrians using the development.

Once those details have been decided, the incorporation of two new streets into the

development design is an improvement to the layout in order to be able to increase connectivity within the site, encourage more lots to be subdivided and developed, and to create more connections to the surrounding street grid network. The street proposal is in line with planning processes that have come before and will enable future development to occur on this property and increase economic development opportunities.

Attachments

- Application
- Proposed Development
- Proposed Roadway Design
- Proposed Parcel Survey
- Aerial Map
- Zoning Map
- Future Land Use Map
- Drainage Report (available upon request)

800 5th Avenue Huntington, WV 25717-1659

This application should be used for a division of a tract/parcel of land that involves the following:

- Commercial, industrial, governmental, religious, non-profit or public, and multi-family residential developments of one (1) acre or more.
- Single-family residential developments of 4 or more lots. Single-family residential developments of 1-3 lots that fall under Article 1389 Hillside Regulations.
- Any development requiring any streets or extension of the local governmental facilities, or the creation of any public improvement.

Please complete and return this application along with a Plat/Survey of the subdivision, a Metes & Bounds Description prepared by a Certified Surveyor, two (2) copies of the Preliminary Plans and a \$100 processing fee to the Planning and Zoning Office located in Room 2 of City Hall.

The Planning Commission, Public Works Director, and Cabell County Health Department will review the application. If you have any questions, please contact the Planning Department at 304-696-5540 opt. 3 or by email at

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Street Address of S	Subject Property (s): 2300	3rd Avenue Huntington,	WV 25703	
	Tax Map: <u>10</u>			
Zoning Classification	_{on:} I-1 Light Industrial	/ Commerical		
PART TWO: AP	PLICANT/OWNER IN	NFORMATION		
Name: Huntington	Municipal Development Au	thority		
Street Address: 80	00 Fifth Avenue, Low	er Level 34		
City: Huntington		_ State: WV	Zip Code: 25714	
304-6	696-5540 ext. 2026	burns	c@huntinatonwv.aov	

All plats/surveys are to be completed by a Registered Surveyor and shall meet the West Virginia Board of Professional Surveyors Minimum Standards for Boundary Surveys, which include, but are not limited to:

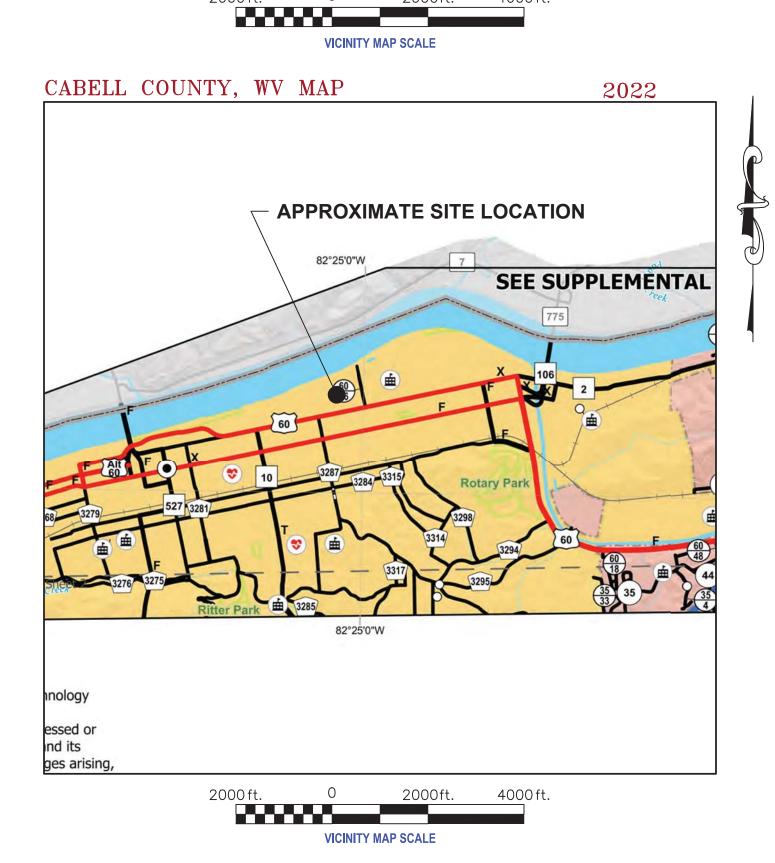
- Map Number and Parcels
- Lot Numbers
- Lot Dimensions
- Parent Tract Identification
- Name of Subdivision
- District or Municipality, County, and State
- Check of Error of Closure and Area
- Monumentation

- Scale, North Arrow, Basis of Bearings
- Adjoining Owners Deed Reference
- Adjoining Subdivision(s) Plat Reference
- Name and Width of Adjoining Right-of-Ways
- Owner Name
- Name and Stamp/Seal of Registered Surveyor
- Date of Survey

By signing below, the applicant agrees that they have read and completed the Major Subdivision Application, and to the best of their knowledge the information reflected here and in the Survey and Metes & Bounds Description is correct.

Cathy Burns 06/21/2024

Applicant's Signature Date



HUNTINGTON MUNICIPAL DEVELOPMENT AUTHORITY

CONSTRUCTION PLANS FOR THE FOUNDRY **CONTRACT #1** SITE AND UTILITIES T60-11055 CABELL COUNTY, WEST VIRGINIA



HUNTINGTON MUNICIPAL DEVELOPMENT AUTHORITY

PHONE: (304)-696-5540 ext 2026 800 FIFTH AVENUE, LOWER LEVEL PO BOX 1268 HUNTINGTON, WV 25714 CONTACTS

CLIENT'S CONTACT

HUNTINGTON MUNICIPAL **DEVELOPMENT AUTHORITY** ATTN: CATHY BURNS (304) 696-5540 ext: 2026

ENGINEER THE THRASHER GROUP, INC. ATTN: NICOLE JONES (304) 423-5991

PLAN REPRODUCTION WARNING

BRIDGEPORT, WV OFFICE

600 WHITE OAKS BLVD.

BRIDGEPORT, WV 26330

PO BOX 940

P (304) 624-4108

F (304) 624-7831

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES. **WARNING**: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

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SHEET INDEX

SHEET	DESCRIPTION
C1.00	GENERAL NOTES
C1.01	QUANTITIES
C2.00	EXISTING CONDITIONS
C2.01	DEMOLITION
C2.02	OVERALL SITE PLAN
C3.00	GEOMETRIC LAYOUT
C3.01	23RD STREET PLAN AND PROFILE
C3.02	FOUNDRY AVENUE PLAN AND PROFILE
C3.03-C3.04	INTERSECTION DETAILS
C4.00	SITE PLAN
C4.01	EROSION AND SEDIMENT CONTROL
C4.02	GRADING PLAN
C5.00-C5.02	SANITARY SEWER PLAN AND PROFILE
C5.03-5.04	UTILITY PLAN

NOT FOR CONSTRUCTION

CLIENT'S SIGNATURE IF APPLICABLE

EDA PROJECT # 01-79-15297

NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION

THIS PLAN SET DEPICTS THE NECESSARY INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE WVDEP FOR STORM WATER PERMITTING PURPOSES.

THE AQUATIC RESOURCES DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE ACCURACY, OR COMPLETENESS, OF THE AQUATIC RESOURCES DEPICTED ON THESE PLANS.



NICOLE M JONES, WV P.E. # 21372					
SSUED FOR PERMITS	DATE:	BY:			
SSUED FOR BID	DATE:	BY:			
SSUED FOR CONSTRUCTION	DATE:	BY:			

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A VALID STATE CONTRACTOR'S LICENSE AND PAYING ALL STATE AND LOCAL B&O TAXES. ALL PERMITS MUST BE SECURED PRIOR TO CONSTRUCTION. PERMITS PERTAINING TO THE BORROW SITE SHALL ALSO BE ACQUIRED BY THE CONTRACTOR. OWNER WILL OBTAIN WVDEP STORMWATER CONSTRUCTION PERMIT.

4. FILL MATERIALS TO BE USED ON THE PROJECT SITE FROM OFF-SITE SOURCES MUST BE CONFIRMED TO BE CLEAN.

5. THERE IS NO RESTRICTION ON SOILS THAT ARE RELOCATED WITHIN THE PROJECT'S LOD.

6. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJECT.

7. THE CONSTRUCTION DRAWINGS REPRESENT THE PROPOSED LINES, GRADES, CROSS SECTIONS, AND APPURTENANCES TO ACCOMPLISH THE INTENT OF THE SCOPE OF WORK. CERTAIN INCIDENTAL ITEMS TO COMPLETE THE SCOPE OF WORK MAY NOT BE SHOWN.

8. ALL WORK PERFORMED AND ALL MATERIAL FURNISHED SHALL CONFORM TO THE LINES, GRADES, CROSS SECTIONS, DIMENSIONS, AND MATERIAL REQUIREMENTS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONSTRUCTION DRAWINGS SHOW THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ON WHICH ESTIMATED QUANTITIES ARE BASED. THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ARE SUBJECT TO VARIATION NECESSARY TO OBTAIN SUBGRADE AND/OR FINAL GRADE SATISFACTORY TO THE ENGINEER.

9. THE CONTRACTOR SHALL HAVE ON THE SITE AT ALL TIMES A COMPETENT SUPERINTENDENT CAPABLE OF READING AND UNDERSTANDING THE CONSTRUCTION DOCUMENTS AND THOROUGHLY EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED, AND SHALL BE ABLE TO COORDINATE WITH THE ENGINEER.

10. IN THE EVENT AN ERROR WITH THE PLANS SEEMS APPARENT, THE MATTER MUST BE TAKEN UP WITH THE ENGINEER FOR CAREFUL REVIEW BEFORE PROCEEDING WITH CONSTRUCTION.

11. ALL BROKEN CONCRETE & ASPHALT, TRASH, RUBBISH, ORGANICS & OTHER UNSUITABLE AND EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL NECESSARY PERMITS FOR OFF-SITE DISPOSAL / WASTE AREAS.

12. THE OWNER RESERVES THE RIGHT TO CONTRACT TO AND PERFORM OTHER OR ADDITIONAL WORK ADJACENT TO AND WITHIN THE WORK AREA COVERED BY THIS CONTRACT. WHEN SEPARATE CONTRACTS ARE LET WITHIN THE LIMITS OF ANY ONE PROJECT, EACH CONTRACTOR SHALL CONDUCT HIS WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR THE COMPLETION OF THE WORK BEING COMPLETED BY OTHER CONTRACTORS. THE CONTRACTORS WORKING ON THE SAME PROJECT SHALL COOPERATE WITH EACH OTHER AS ORDERED BY THE OWNER AND/OR ENGINEER.

13. PRIOR TO PLACEMENT OF FILL, THE EXPOSED SURFACE SHALL BE COMPACTED AND/OR PROOF ROLLED UNTIL A RELATIVELY UNYIELDING SURFACE IS ACHIEVED.

14. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING, UNTIL THE MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE, AS DETERMINED BY MOISTURE-DENSITY RELATION TESTS.

15. IN AREAS TO RECEIVE FILL AND AT THE FINAL CUT SUBGRADE, PROOF ROLL AND COMPACT THE EXPOSED GROUND SURFACE FOLLOWING CLEARING AND GRUBBING AND ANY REQUIRED EXCAVATION WITH A MINIMUM OF FOUR PASSES OF AN APPROVED COMPACTOR. PROOF ROLLING SHALL BE UNDER THE OBSERVATION OF THE ENGINEER AS DESCRIBED HEREIN. IMMEDIATELY FOLLOWING THE COMPLETION OF EXCAVATION TO PROPOSED SUBGRADES IN CUT AREAS, PROOF ROLLING SHALL BE PERFORMED AS SPECIFIED. ANY AREAS WHICH DEFLECT, RUT, OR PUMP UNDER THE LOADED DUMP TRUCK SHALL BE UNDERCUT AND REPLACED WITH COMPACTED FILL MATERIAL OR STONE BASE COURSE AS DIRECTED BY THE ENGINEER. IF UNDERCUT IS REQUIRED BEFORE PLACEMENT OF INITIAL FILL LIFT.

16. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS REQUIRED BY LOCAL AND STATE REGULATIONS OR REQUESTED BY ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION.

17. EROSION AND SEDIMENT CONTROL DETAILS NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.

18. ALL QUALITY CONTROL TESTING AND INSPECTION WILL BE PROVIDED BY THE OWNER HIRING THE THRASHER GROUP, INC.

19. ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THEIR ITEMS OF WORK AND COMPLETION SCHEDULES WITH EACH OTHER AS WELL AS THE GENERAL CONTRACTOR.

20. THE CITY OF HUNTINGTON SHALL BE NOTIFIED PRIOR TO TYING INTO THEIR EXISTING SEWER MANHOLES.

21. SHOULD EVIDENCE OF CONTAMINATION BE ENCOUNTERED (I.E. HYDROCARBON ODORS, DRUMS, STAINED OR DISCOLORED SOILS, SHEEN ON STANDING WATER, ETC.) DURING ANY EXCAVATION, DRILLING, OR PENETRATION OF SITE SOILS OPERATIONS WITHIN THE AREA SHOULD STOP UNTIL FURTHER EVALUATION IS CONDUCTED.

22. IF SOILS FROM AREAS THAT REQUIRE A CUT ARE DEEMED NOT SUITABLE FOR ON-SITE SOIL RELOCATION AS FILL THEN THE SOIL WILL BE CHARACTERIZED AND TRANSPORTED OFF-SITE TO AN APPROPRIATE SOLID WASTE DISPOSAL FACILITY FOR DISPOSAL. THE REMOVAL OF SOILS FROM THE SITE IS PROHIBITED UNTIL THE SOIL IS CHARACTERIZED, AND THEN CAN BE TRANSPORTED OFF-SITE TO AN APPROPRIATE SOLID WASTE DISPOSAL FACILITY. ALL EXCAVATED SOILS SHALL BE STORED WITHIN THE SITE BOUNDARIES UNTIL THE DETERMINATION IS MADE AND SHALL BE PROPERLY LABELED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

23. TO LIMIT WORKER EXPOSURE TO SOIL CONTAMINANTS BORNE ON DUST AND WINDBLOWN PARTICULATES, DUST CONTROL MEASURES WILL BE IMPLEMENTED, IF WARRANTED, IN ACCORDANCE WITH LOCAL REGULATIONS WHEN GENERAL CONSTRUCTION ACTIVITIES ARE PERFORMED.

24. CONTRACTORS SHOULD USE BRUSHES, SHOVELS, ETC. TO CONDUCT GROSS SOIL REMOVAL FROM EQUIPMENT USED TO EXCAVATE OR MOVE APPARENTLY IMPACTED SOILS AT THE PROPERTY. DECONTAMINATION WITH A HIGH-PRESSURE WASHER IS RECOMMENDED FOR EQUIPMENT THAT HAS CONTACTED OBVIOUSLY IMPACTED SOIL AND/OR GROUNDWATER. PERSONNEL DECONTAMINATION SHOULD CONSIST OF THOROUGH WASHING OF HANDS, FOREARMS, AND FACE BEFORE EATING, DRINKING, OR SMOKING. GROSS SOILS SHOULD BE REMOVED FROM FOOTWEAR BEFORE LEAVING THE PROPERTY. A FULL-BODY SHOWER SHOULD BE TAKEN AS SOON AS POSSIBLE UPON COMPLETION OF THE WORK SHIFT.

CONTACTS

MISS UTILITY
1-800-245-4848 http://www.muwv.org

SANITARY SEWER
CITY OF HUNTINGTON

WEST VIRGINIA AMERICAN WATER
1600 PENNSYLVANIA AVENUE CHARLESTON, WV 25302
ATTN: MILLARD PRICHARD (BUDDY)
EMAIL: MILLARD.PRICHARD@AMWATER.COM
(304) 563-0534

MOUNTAINEER GAS COMPANY 2800 7TH AVENUE CHARLESTON, WV 25387 ATTN: MICHAEL PLYMALE MICHAELPLYMALE@MGCWV.COM

APPALACHIAN POWER

1122 SEVENTH AVE HUNTINGTON, WV 25719

ATTN: STEVEN G. STEWART

EMAIL: SGSTEWART@AEP.COM

WV DIVISION OF HIGHWAYS
DISTRICT TWO
801 MADISON AVENUE HUNTINGTON, WV 25712-0880
ATTN: ROBERT L. PENNINGTON, P.E.

HUNTINGTON WATER QUALITY BOARD
555 7TH AVENUE HUNTINGTON, WV 25701
ATTN: PATRICK A. TAYLOR, P.E.
EMAIL: PTAYLOR@HUNTINGTONSB.COM
(304) 993-7999

(304) 528-5625

AMBULANCE, FIRE, LAW ENFORCEMENT 911

EROSION AND SEDIMENT CONTROL NOTES

MAINTENANCE AND INSPECTION NOTES

1. THE CONTRACTOR SHALL CLEAN OUT SEDIMENT BEHIND INLET PROTECTION MEASURES ONCE IT IS ONE THIRD OF THE HEIGHT OF THE SOCKS. SEDIMENT WILL BE CLEANED OUT OF THE THREE BASINS PRIOR TO CONVERTING TO DETENTION BASINS. THE SEDIMENT SHALL BE INCORPORATED INTO THE FILL WITHIN THE DISTURBED AREA.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, AT MINIMUM, ONCE EVERY 4 CALENDAR DAYS AND WITHIN 24-HOURS AFTER ANY STORM GREATER THAN 0.25-INCHES PER 24-HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

3. CONTRACTOR TO INSTALL RAIN GAUGE ON SITE PRIOR TO EXCAVATION .

SEEDING AND MULCHING

1. TEMPORARY STABILIZATION

DATES: MARCH 1 THROUGH JUNE 15 SEED: OATS @ 168 LB/AC

DATES: AUGUST 15 THROUGH NOVEMBER 1

SEED: RYE @ 120 LB/AC FERTILIZER: 10-10-10 @ 400 LB/AC

FOR STABILIZATION OUTSIDE SEEDING DATES, USE HAY OR STRAW MULCH AT 3 TONS/AC OR AT 2 TONS/AC IF ASPHALT EMULSION IS APPLIED AT 100 GAL/AC.

2. PERMANENT STABILIZATION

DATES: MARCH 1 THROUGH JUNE 15

AUGUST 15 THROUGH SEPTEMBER 15 SEED: KY-31 TALL FESCUE @ 50 LB/AC

FERTILIZER: 10-20-10 @ 1000 LB/AC LIME: 3 TONS/AC OR PER SOIL TEST RESUI

LIME: 3 TONS/AC OR PER SOIL TEST RESULTS
MULCH: HAY OR STRAW @ 2 TONS/AC OR @ 1.5 T

HAY OR STRAW @ 2 TONS/AC OR @ 1.5 TONS/AC WITH ASPHALT EMULSION @ 125 GAL/AC

3. SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.

4. SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.

5. TOPSOIL SHALL BE REDISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING.

6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.

7. WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.

8. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED (e.g., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.

9. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

OVERALL LEGEND

•	%" REINFORCING ROD W/ RED PLASTIC CAP STAMPED "EASTHAM & ASSOCIATES" (SET) %" REINFORCING ROD (FOUND)	X X	RIGHT-OF-WAY LINE EXISTING FENCE EXISTING OVERHEAD POWER LINE
\odot	%" REINFORCING ROD WITH YELLOW PLASTIC CAP STAMPED "POTESTA" (FOUND)	ETC ET	EXISTING OVERHEAD POWER, TELEPHONE AND CABLE TV LINE EXISTING OVERHEAD POWER AND TELEPHONE LINE
· •	3½" IRON PIPE IN CONCRETE (FOUND) UN-MONUMENTED CORNER REINFORCING ROD IN CONCRETE (FOUND)	——————————————————————————————————————	EXISTING OVERHEAD TELEPHONE LINE EXISTING GAS LINE EXISTING WATER LINE EXISTING SANITARY SEWER LINE
\boxtimes	"+" ON SIDEWALK (FOUND)	ST	EXISTING STORM LINE BOUNDARY LINE
	COTTON GIN SPINDLE (SET)		RAILROAD TRACKS
$lackbox{lack}{lack}$	C & O CONCRETE MONUMENT (FOUND)	4. 4. 4.	CONCRETE
	1" STEEL PIN (FOUND)	4 4 4	CONCRETE
\otimes	MAG NAIL IN CONCRETE FLOODWALL (SET)		ASPHALT
	MAG NAIL IN CONCRETE FLOODWALL (SET)		ASITALI
$\stackrel{\circ}{\boxplus}$	CHAIN LINK CORNER FENCE POST (FOUND)		PROPOSED LIMITS OF DEMO
$\overline{\wedge}$	4½" CHAIN LINK CORNER FENCE POST (FOUND)		TROTOSED ENVITS OF DEVIC
\bigcirc	EXISTING MONITORING WELL		EXISTING CONTOURS
VM)	EXISTING WATER METER	555	PROPOSED CONTOURS
W	EXISTING WATER VALVE	•	PROPOSED BOLLARD
5	EXISTING FIRE HYDRANT		PROPOSED SIGN
1H)	EXISTING WATER MANHOLE	SAN	PROPOSED SEWERLINE
9	EXISTING STORM MANHOLE	W	PROPOSED WATERLINE
•3) •	EXISTING DROP INLET		PROPOSED STORMLINE
_ 	EXISTING CURB INLET	G	PROPOSED GAS LINE
	EXISTING ROUND DROP INLET	—— UT —— UT ——	PROPOSED CONDUIT BANK
S	EXISTING SANITARY SEWER MANHOLE	LOD	PROPOSED LIMITS OF DISTURBANCE
⋺	EXISTING CLEANOUT		PROPOSED SILT SOCK
	EXISTING UTILITY POLE		PROPOSED INLET
4	EXISTING LIGHT POLE		TROI OSED INLET
	EXISTING GAS VALVE	©	PROPOSED SANITARY SEWER MANHOLE

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LOPMENT AUTH CT #1 SITE AND

DEVELOP CONTRACT#

DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:

PROJECT No. T60-11055

GENERAL NOTES

ELI NO.

DESCRIPTION	QUANTITY UNIT
1 MOBILIZATION	1 LS
2 CONSTRUCTION LAYOUT	1 LS
3 EROSION AND SEDIMENT CONTROL	1 LS
4 TOPSOIL (HAULED FROM OFF SITE)	1,815 CY
5 SEEDING AND MULCHING	4 AC
6 TRAFFIC CONTROL	1 LS
7 DEMOLITION	1 LS
8 UNCLASSIFIED EXCAVATION	1 LS
9 UNDERCUT	1,000 CY
10 SEPARATION FABRIC	6,915 SY
11 AGGREGATE STONE BASE	1,155 CY
12 ASPHALT BASE COURSE	1,761 TN
13 ASPHALT WEARING COURSE	635 TN
14 CENTERLINE	2,510 LF
15 EDGELINE	2,800 LF
16 STOP LINE	75 LF
17 RIGHT TURN ONLY MARKING	1 EA
18 PARKING LOT PAVEMENT MARKINGS	1 LS
19 STOP SIGN	4 EA
20 COMBINATION CONCRETE CURB AND GUTTER	6,610 LF
21 DETACBLE WARNING SURFACE	2 EA
22 DUMPSTER PAD AND ENCLOSURE	1 LS
23 PARKING BLOCKS	4 EA
24 STORM PIPE	1,970 LF
25 TYPE A INLET	7 EA
26 TYPE B INLET	3 EA
27 TYPE F INLET	13 EA
28 STOMWATER MANAGEMENT	1 LS
30 SEWER MANHOLE	11 EA
31 8" DUCTILE IRON SEWER LINE	176 LF
32 4" PVC SEWER LINE	125 LF
33 8" PVC SEWER LINE	1,615 LF
34 6" WATERLINE	1,900 LF
35 HOT TAP, COMPLETE	2 EA
36 GASLINE	1,330 LF
37 ELECTRICAL CONDUIT TRENCH	2,133 LF

DEDUCTS	
1 6" WATERLINE	263 LF
2 ELECTRICAL CONDUIT TRENCH	263 LF
3 REMOVAL OF GUTTER PAN IN PARKING LOT	1125 LF

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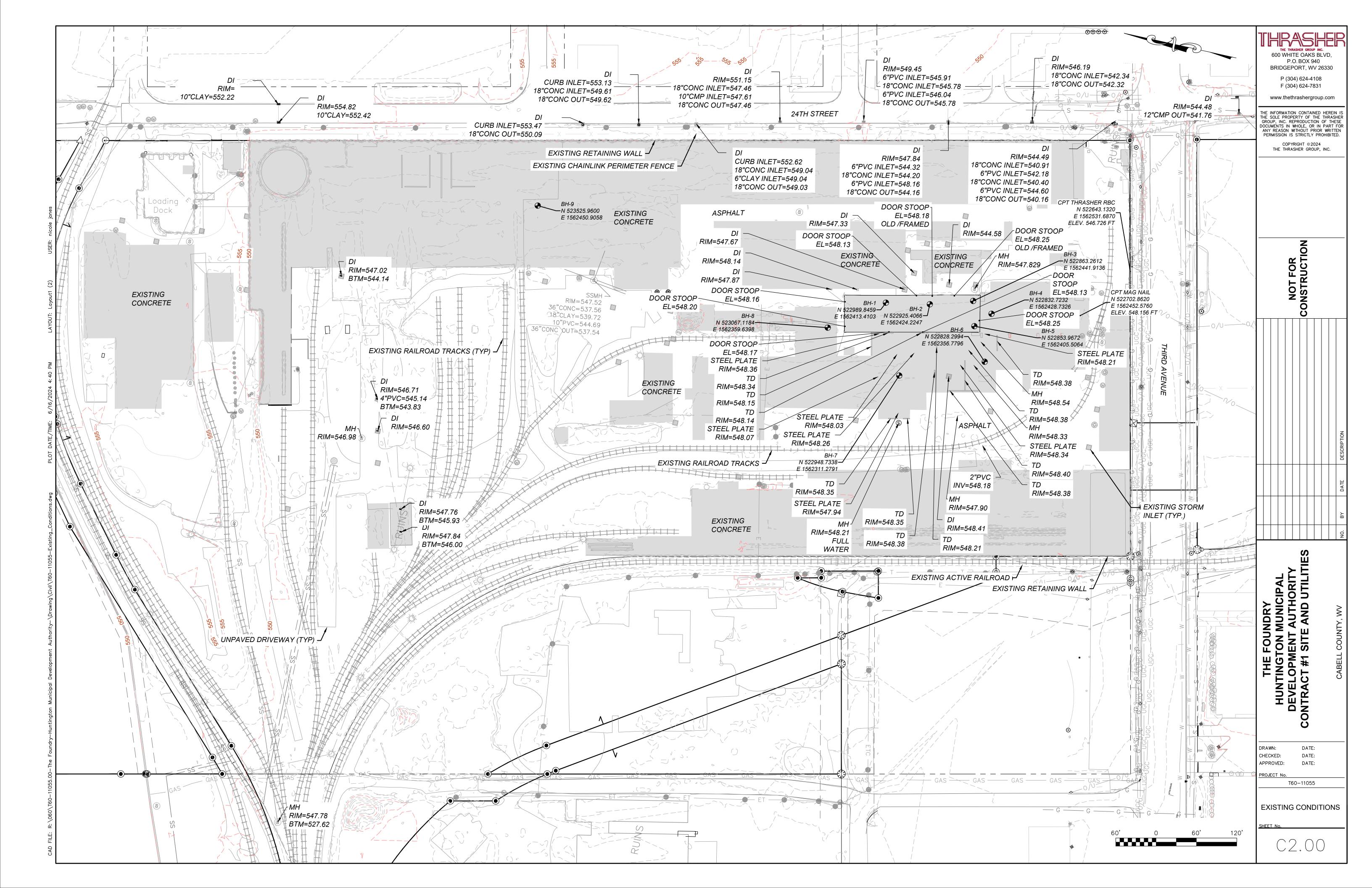
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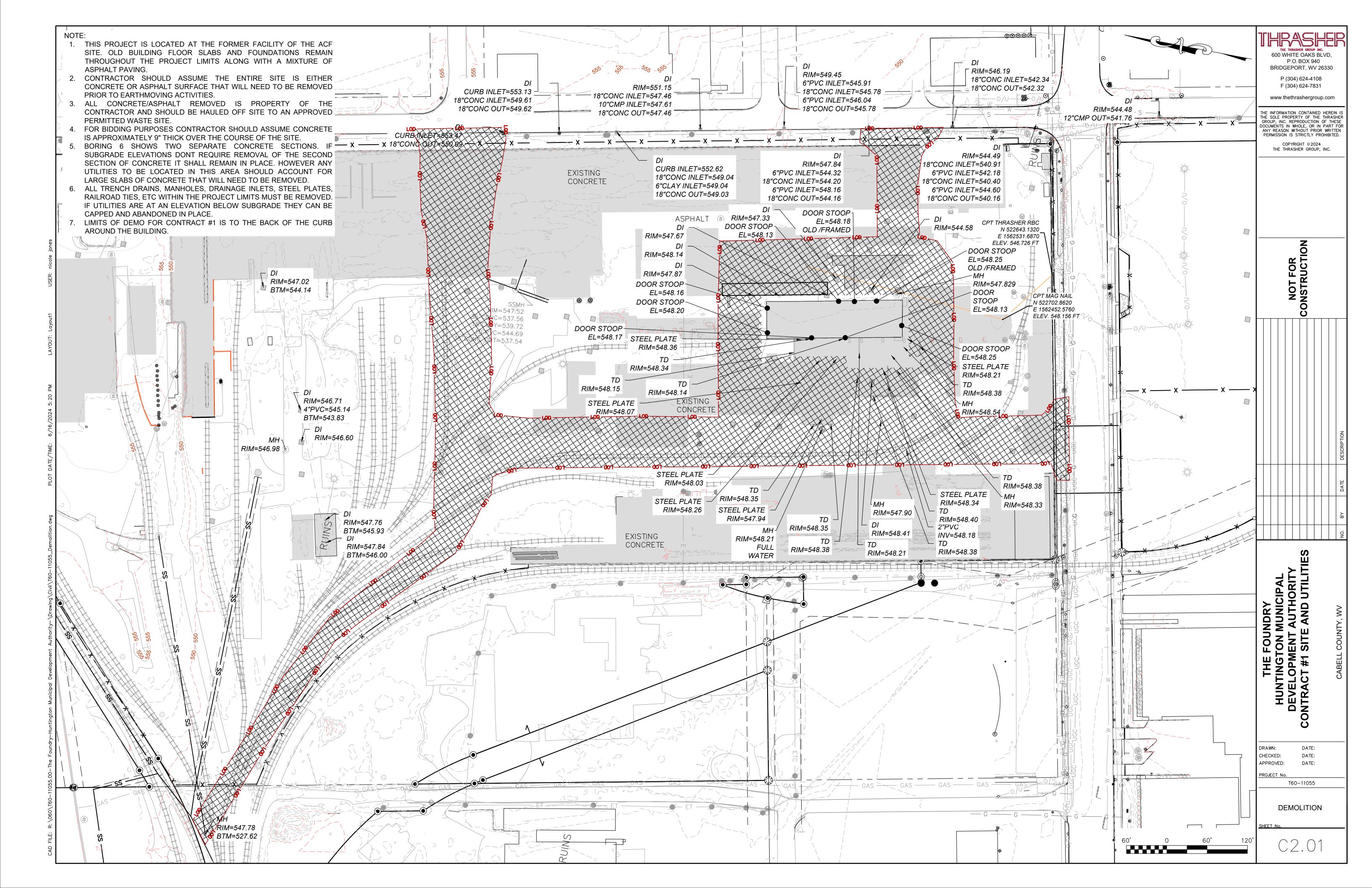
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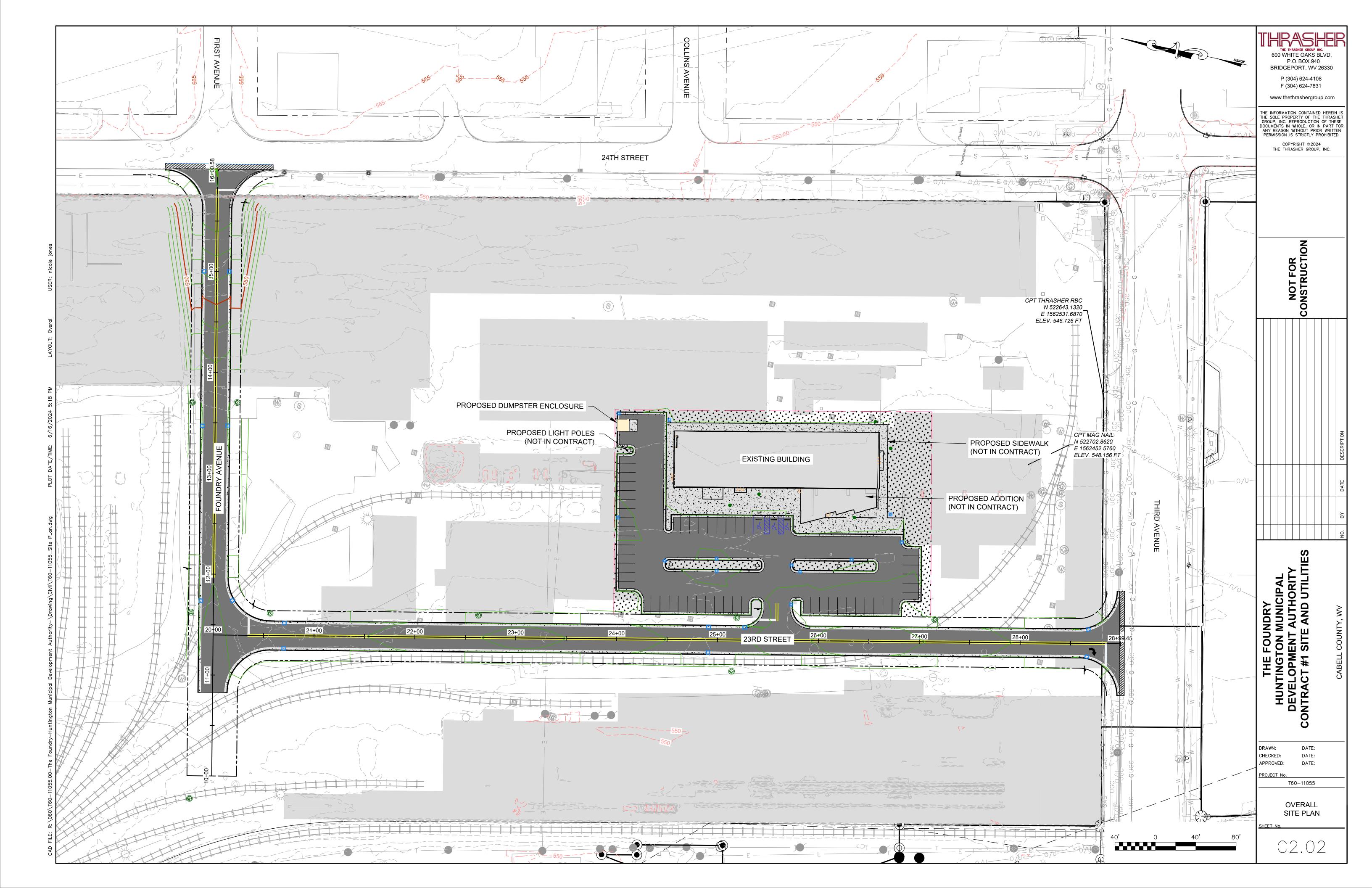
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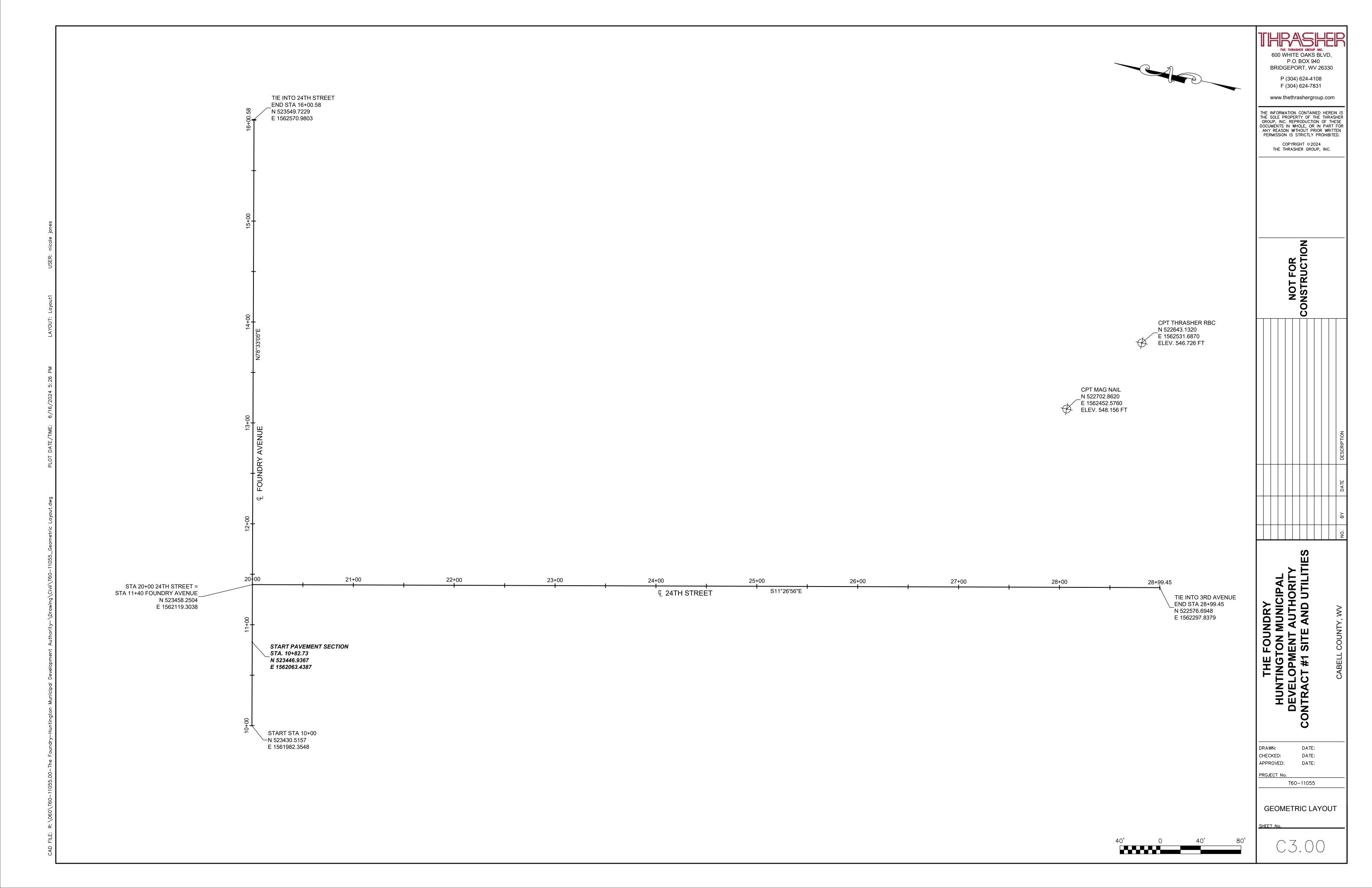
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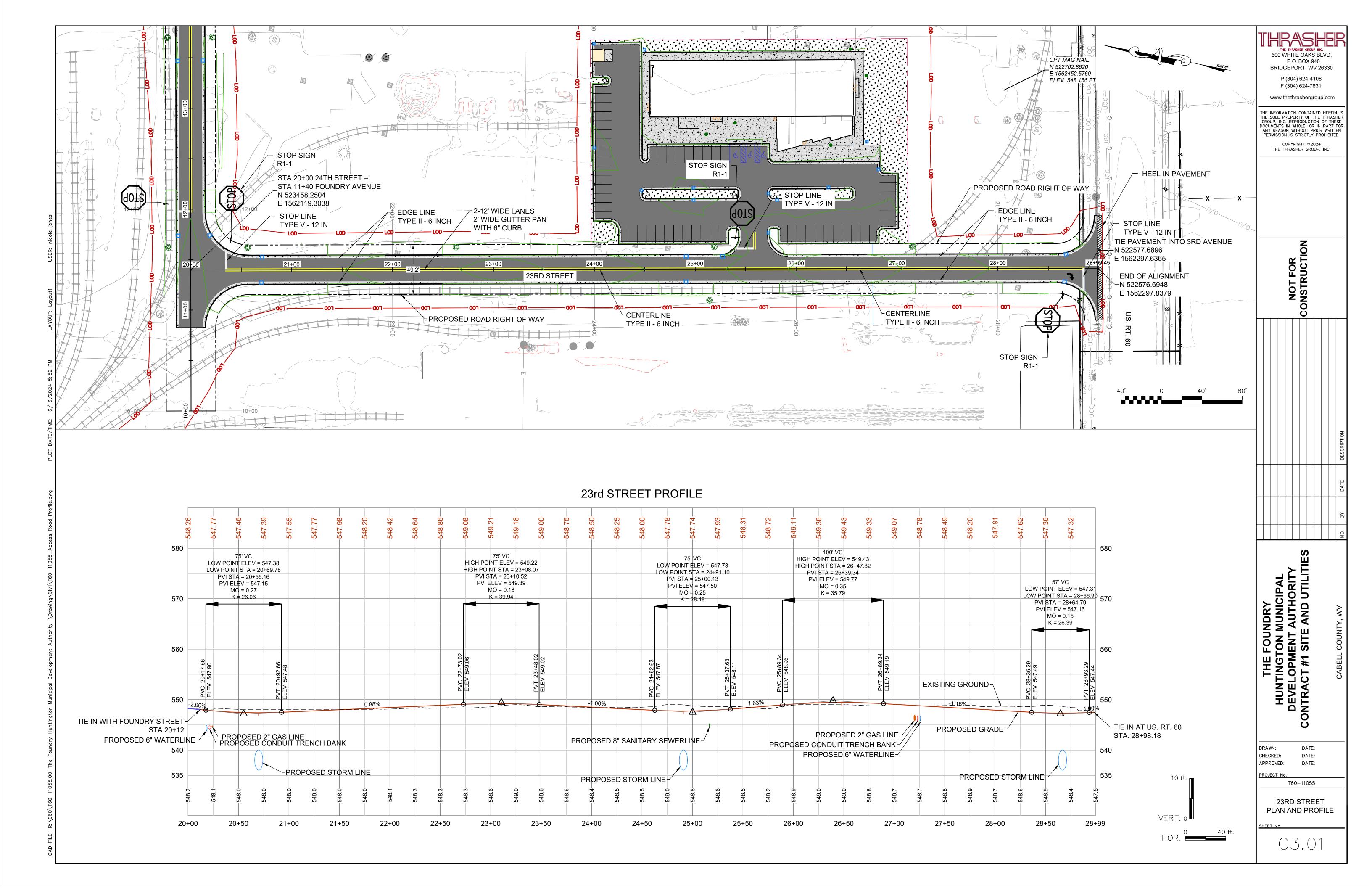
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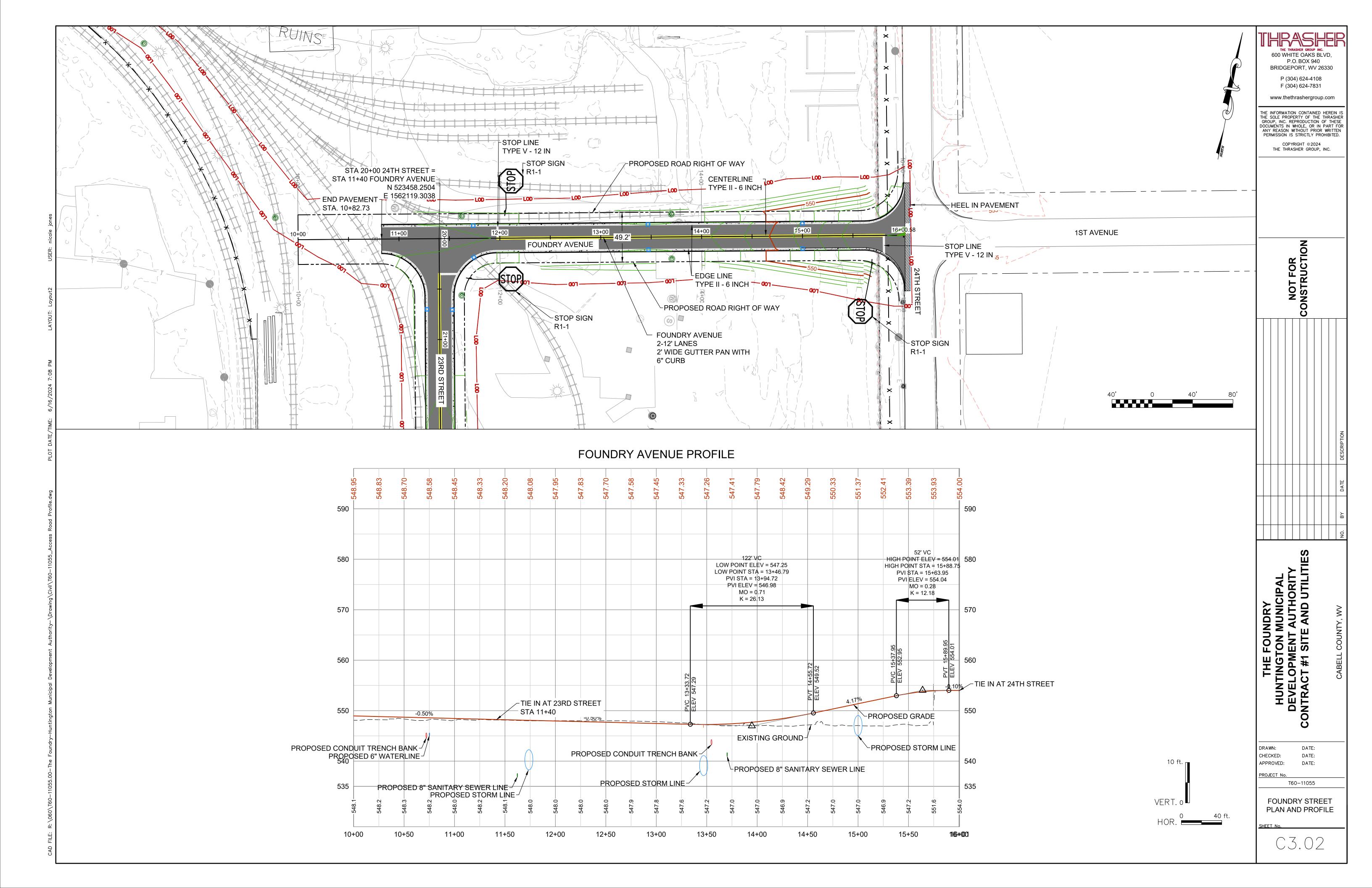


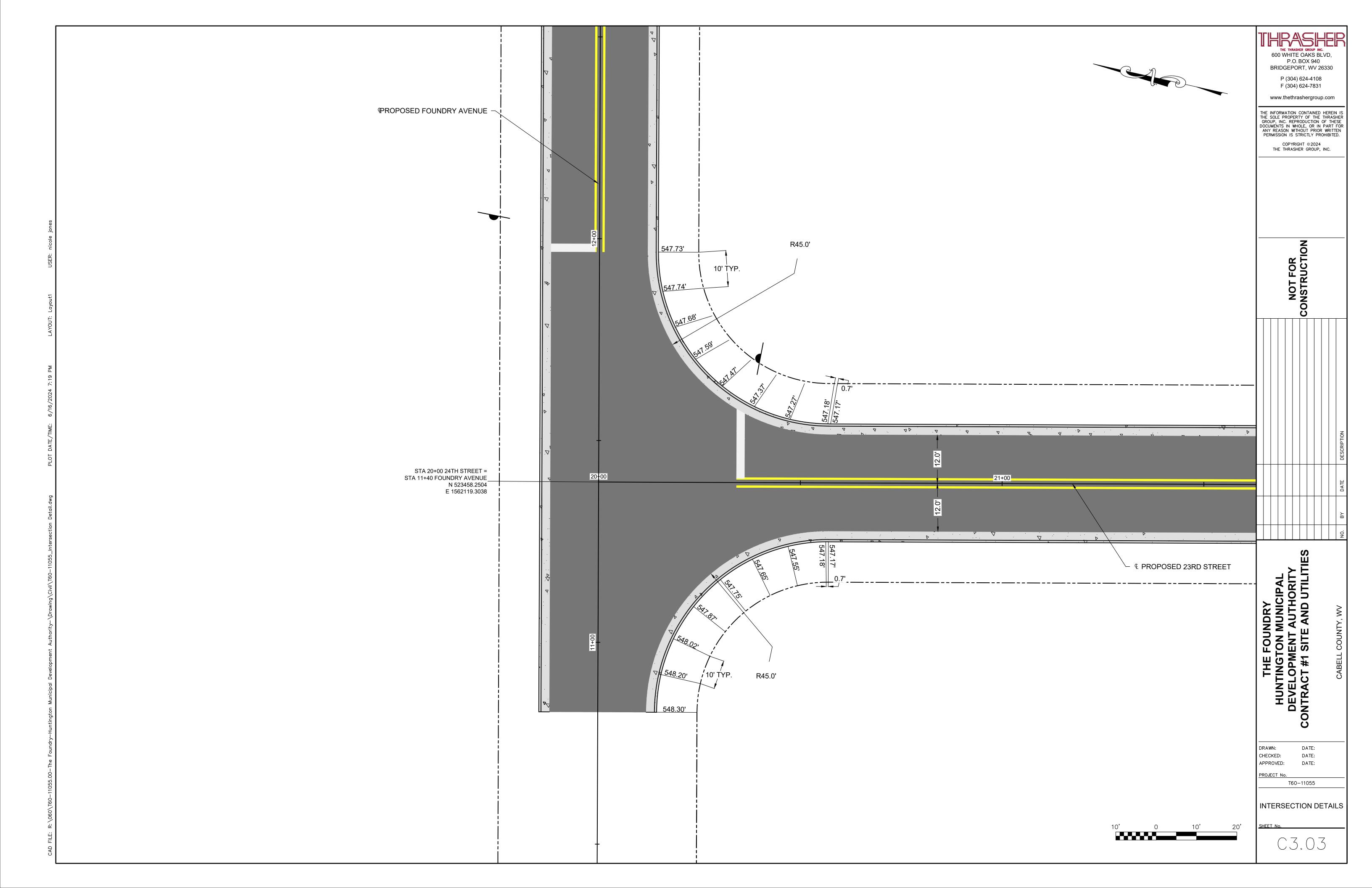


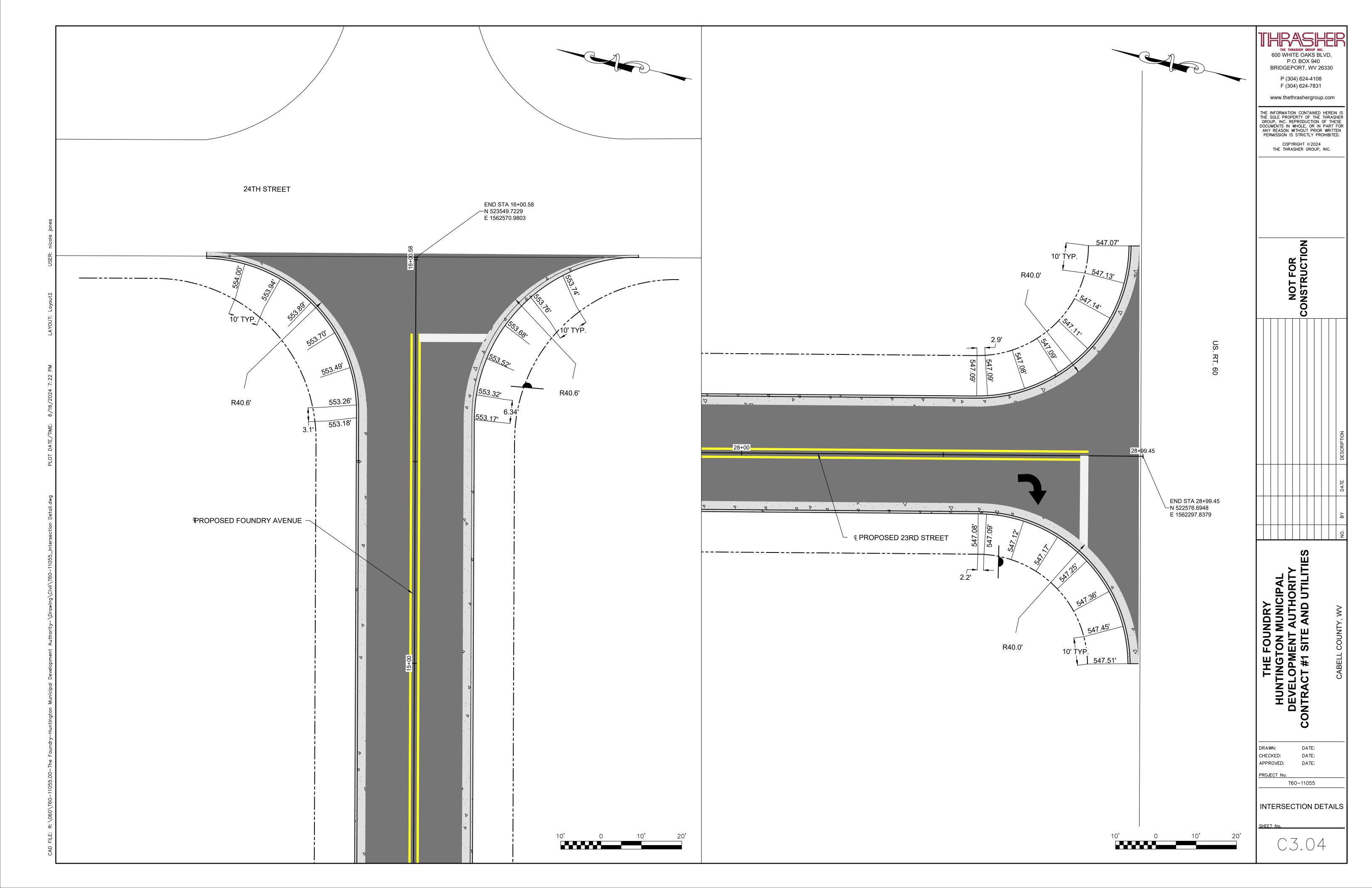


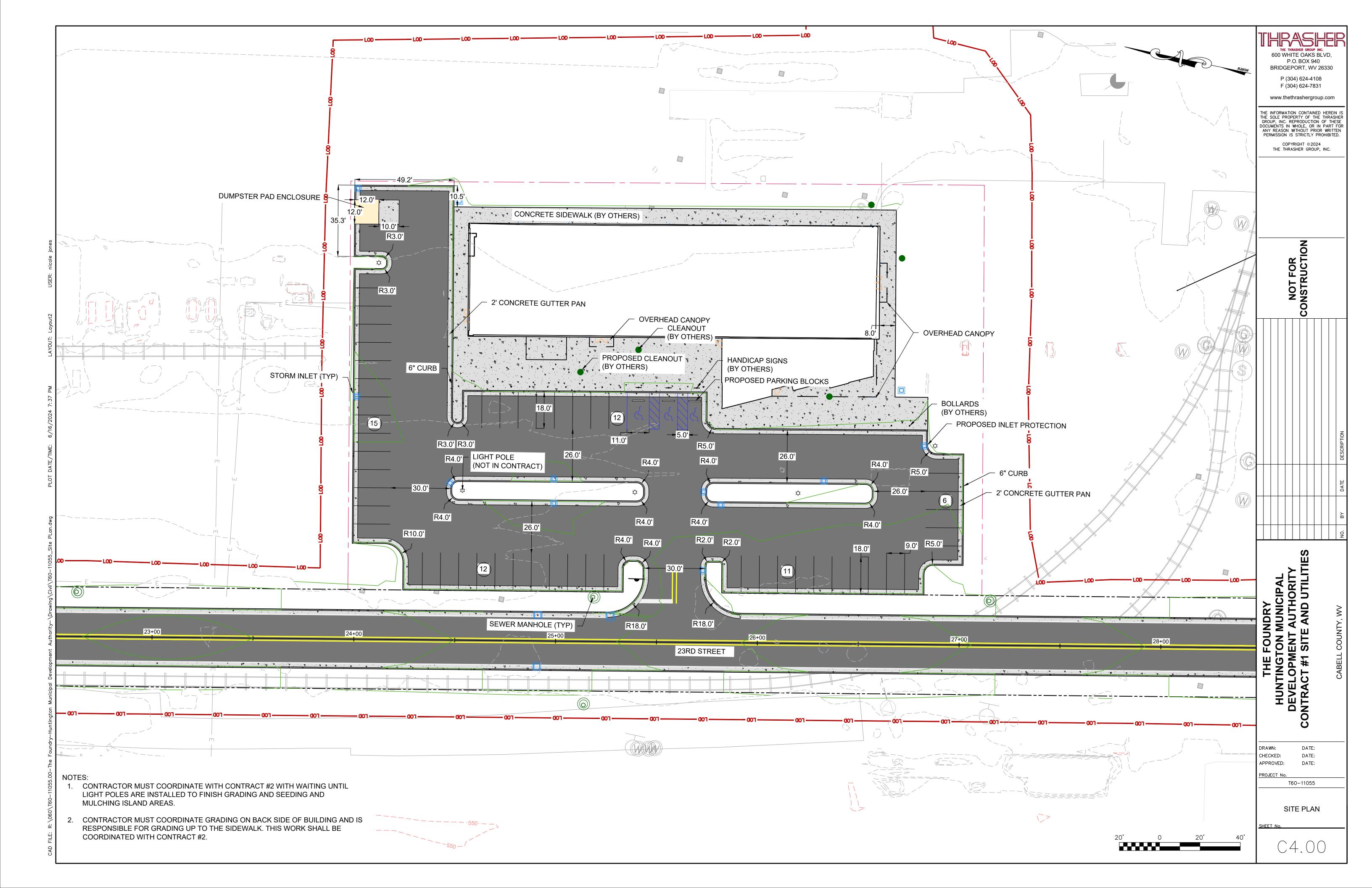


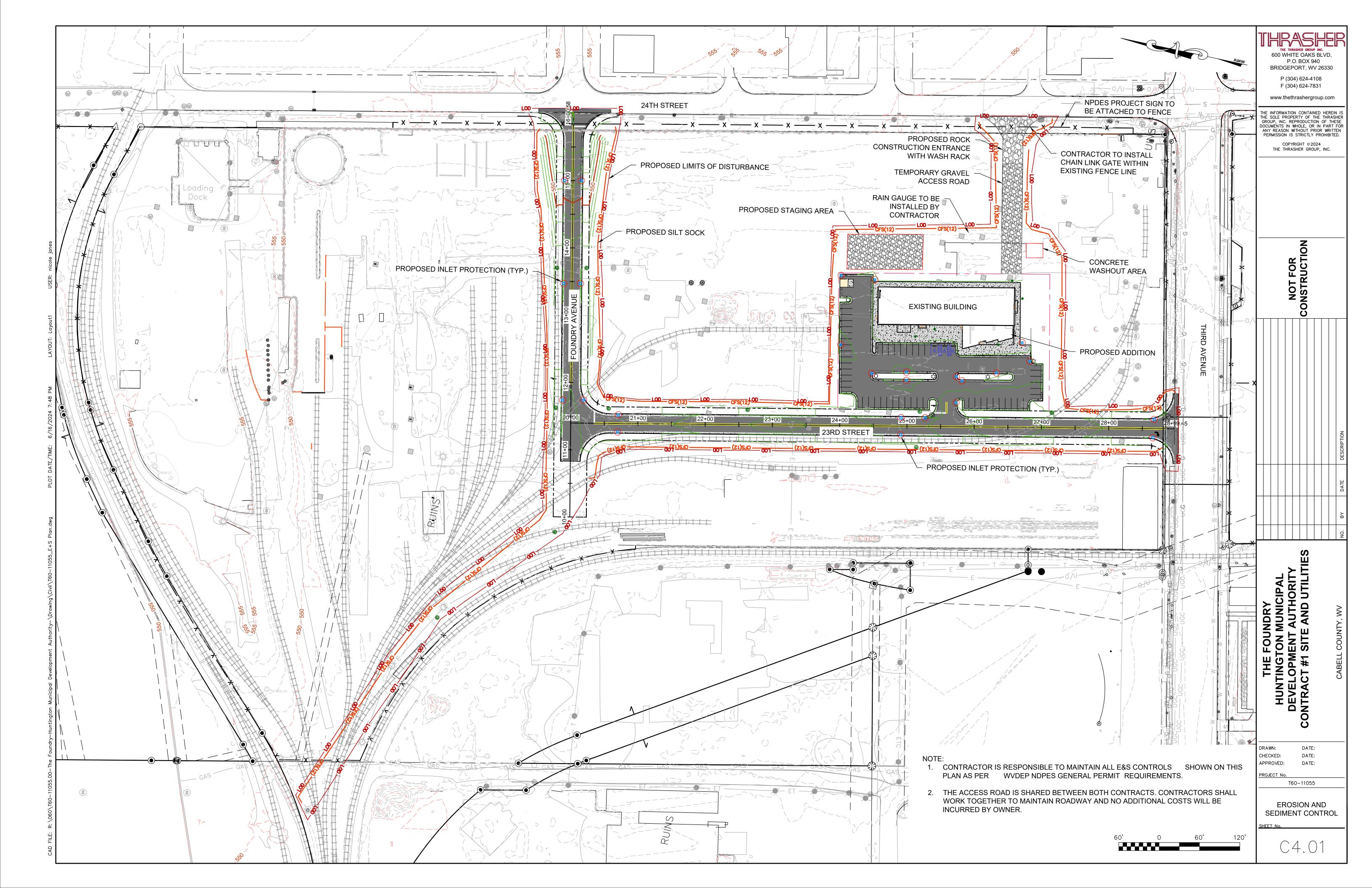


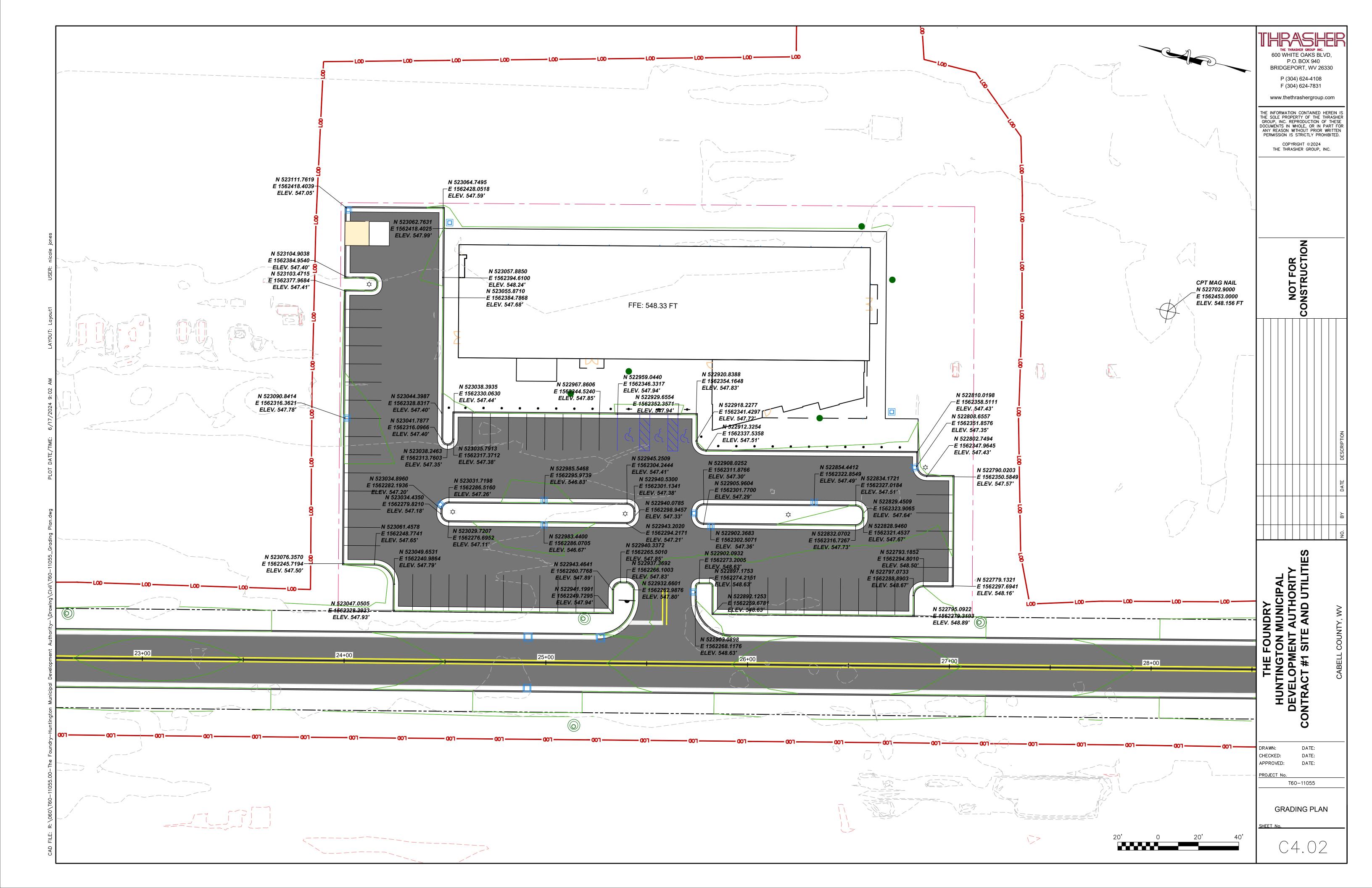


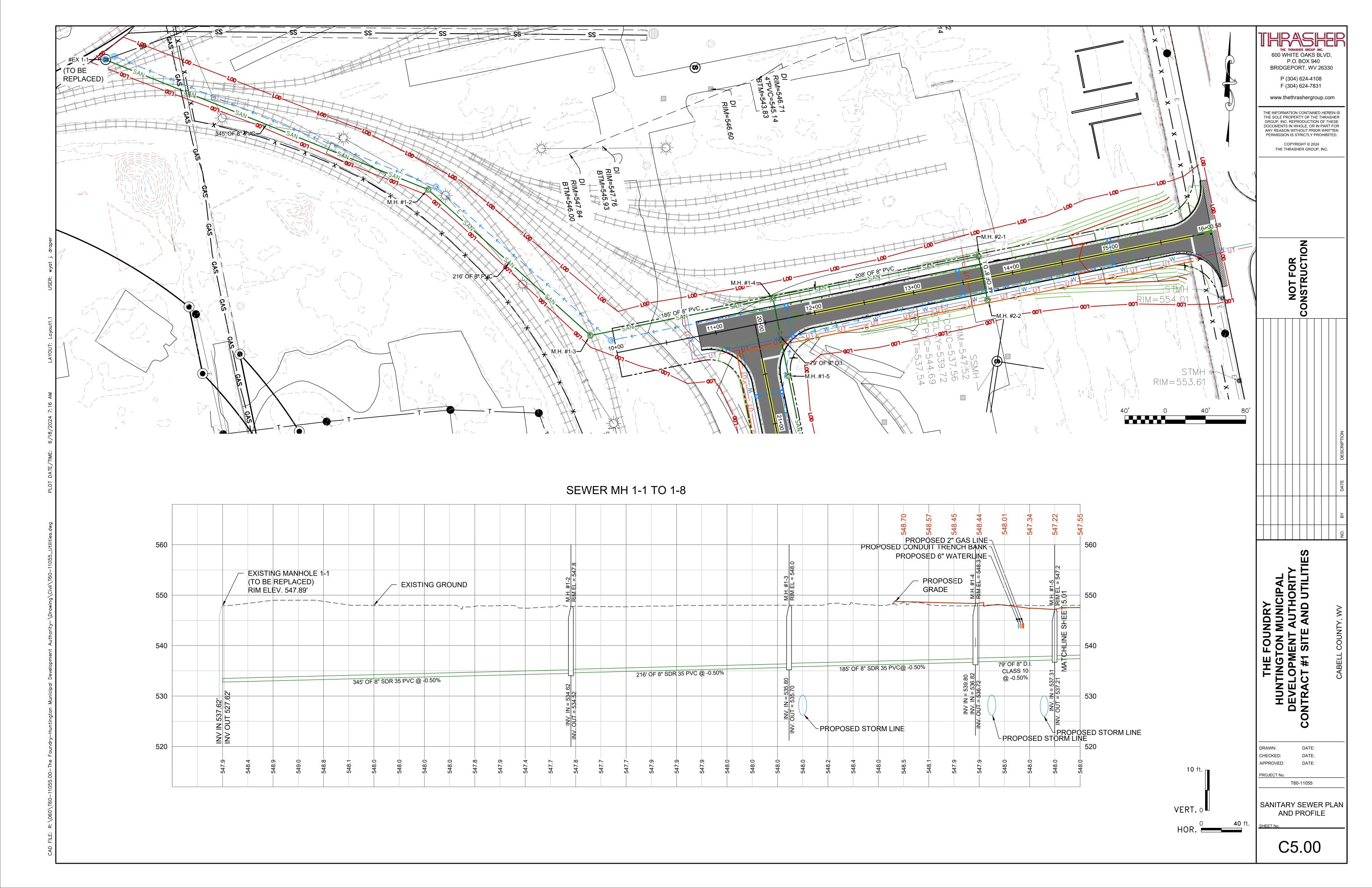


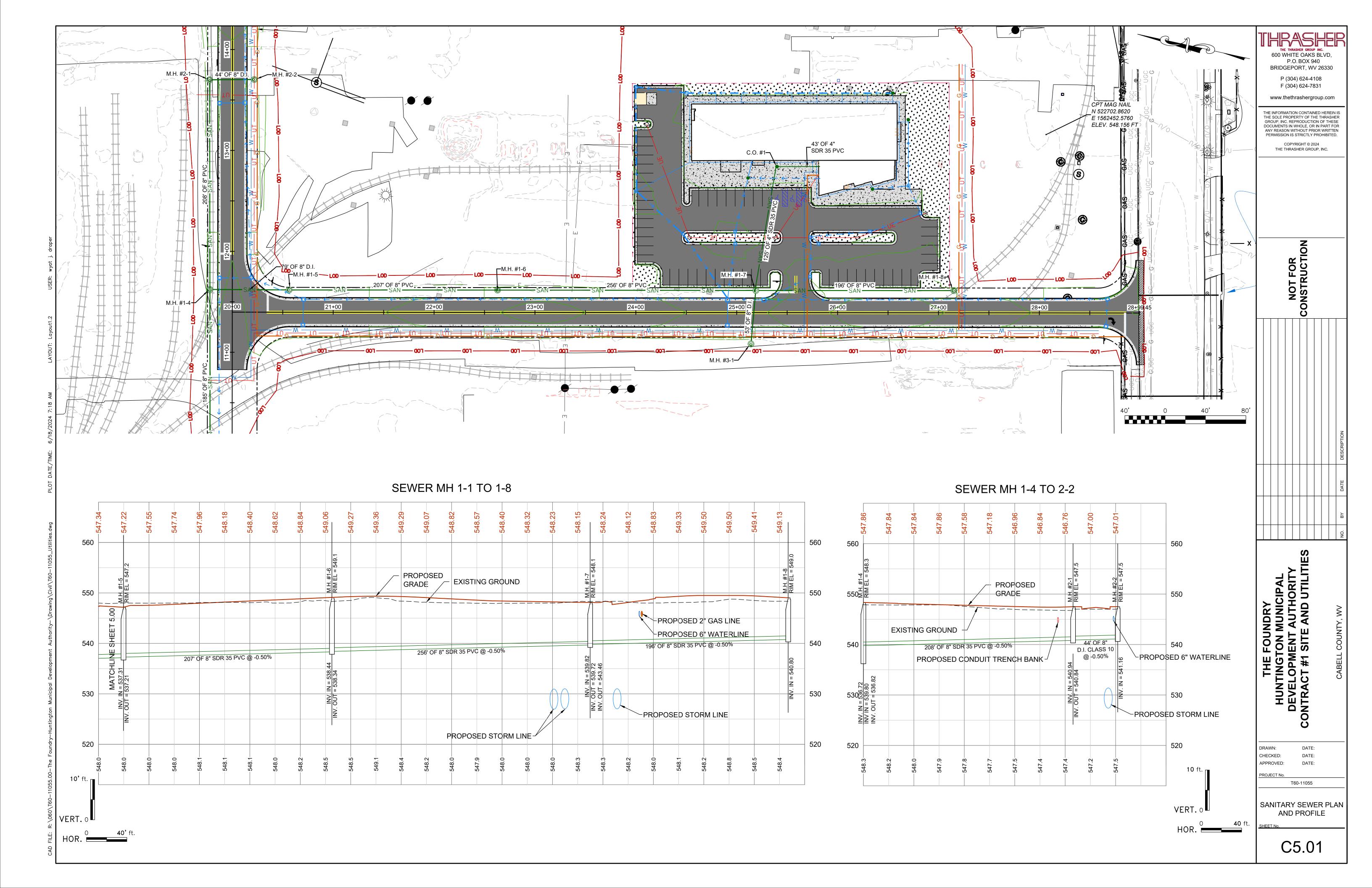






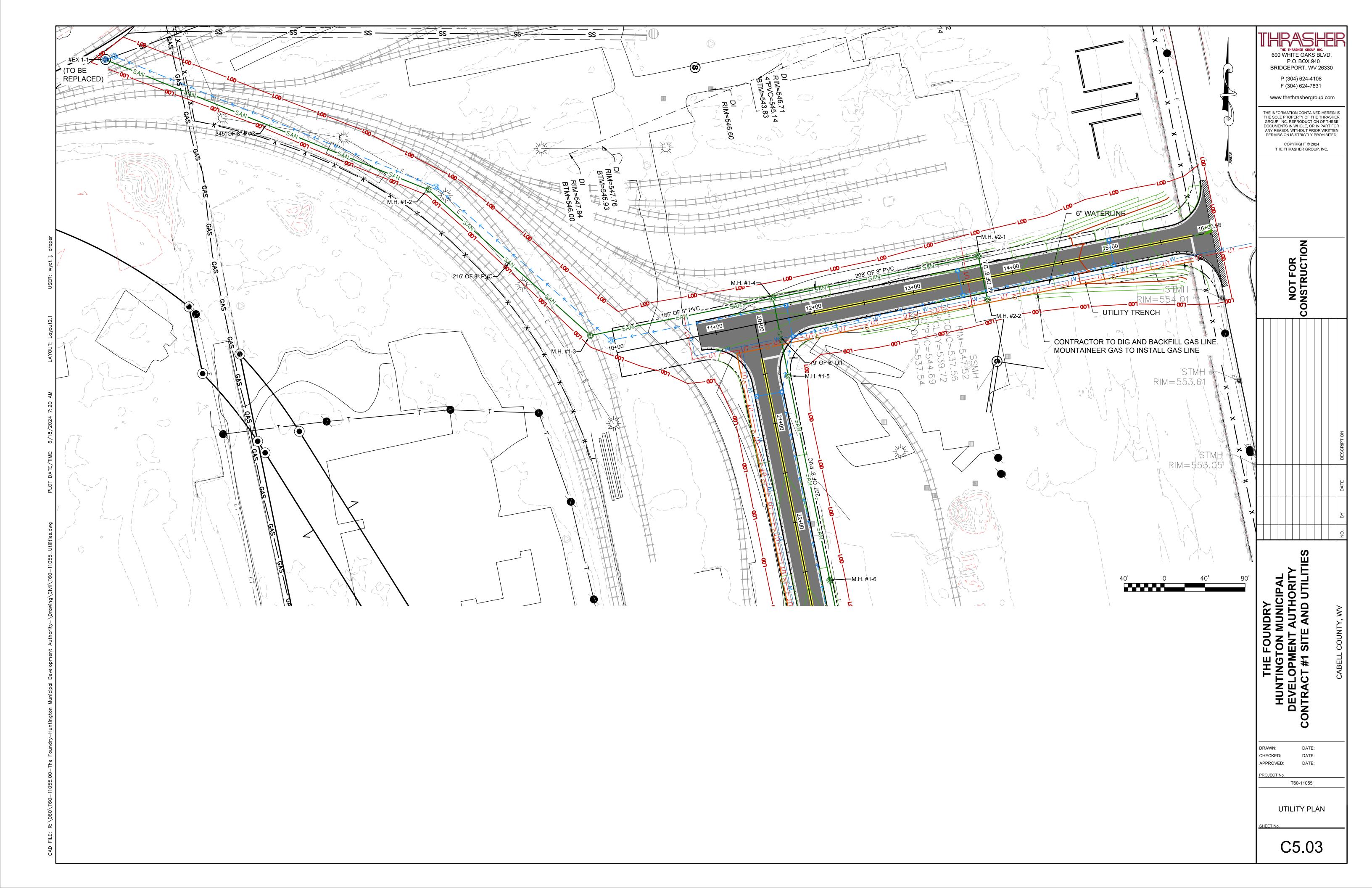


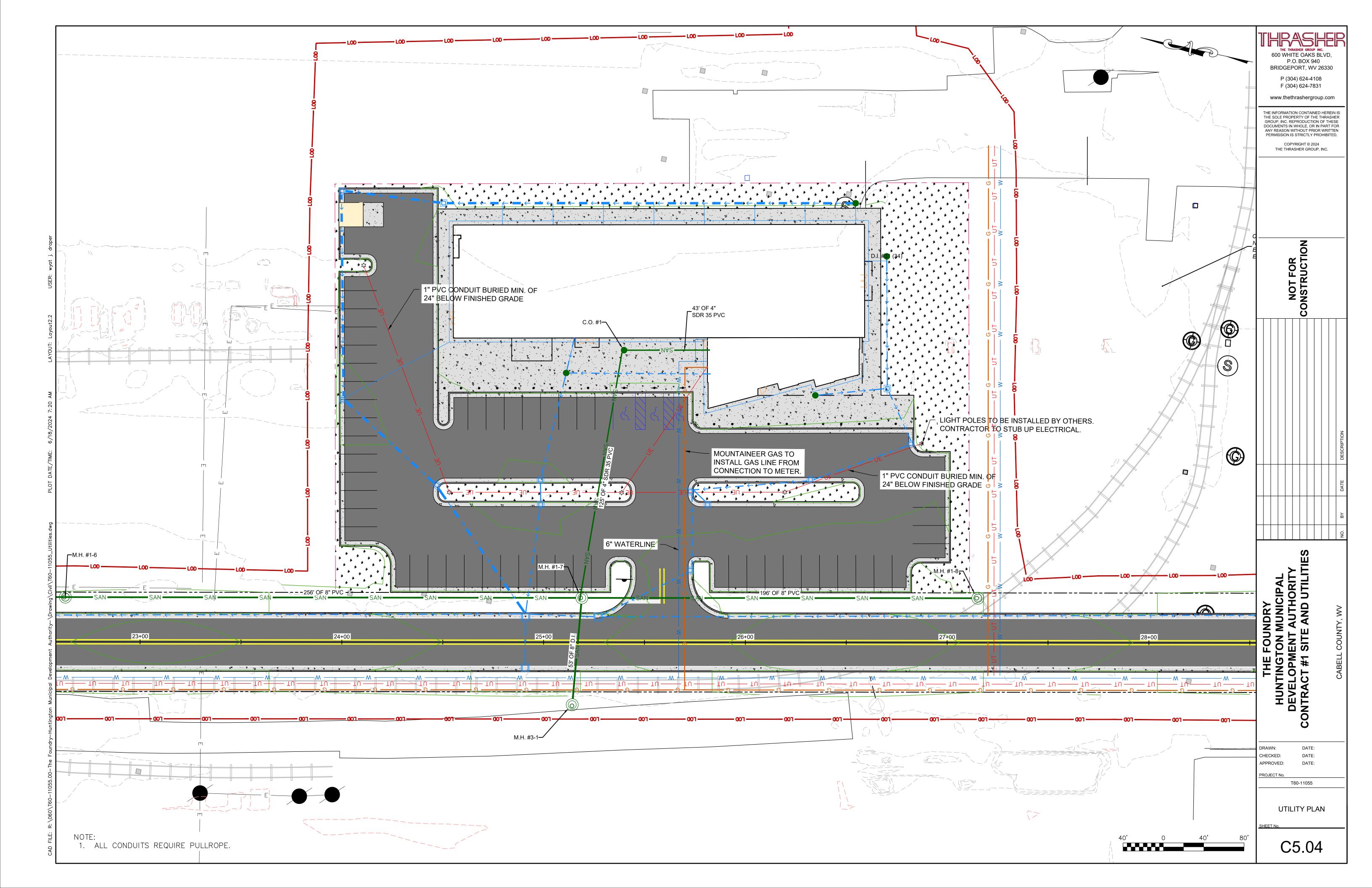




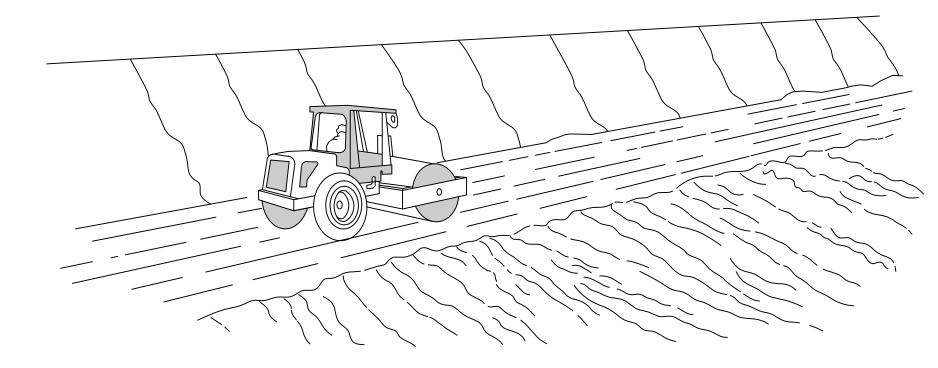
BRIDGEPORT, WV 26330 P (304) 624-4108 F (304) 624-7831 www.thethrashergroup.com THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE THRASHER GROUP, INC. REPRODUCTION OF THESE DOCUMENTS IN WHOLE, OR IN PART FOR ANY REASON WITHOUT PRIOR WRITTEN PERMISSION IS STRICTLY PROHIBITED. COPYRIGHT © 2024 THE THRASHER GROUP, INC. NOT FOR CONSTRUCTION **SEWER MH 1-7 TO 3-1** MH 1-7 TO CO 570 570 570 570 560 560 560 PROPOSED CONDUIT TRENCH BANK 125' OF 4" SDR 35 @ 1.00% PROPOSED STORM LINE PROPOSED STORM LINE PROPOSED 6" WATERLINE PROPOSED CONDUIT TRENCH BANK 525 1NV. GN = 539.72 1NV. IN = 543.46 1NV. OUT = 539.8 ≥ 530 CHECKED: DATE: APPROVED: 525 525 T60-11055 SANITARY SEWER VERT. o ■ PROFILE C5.02

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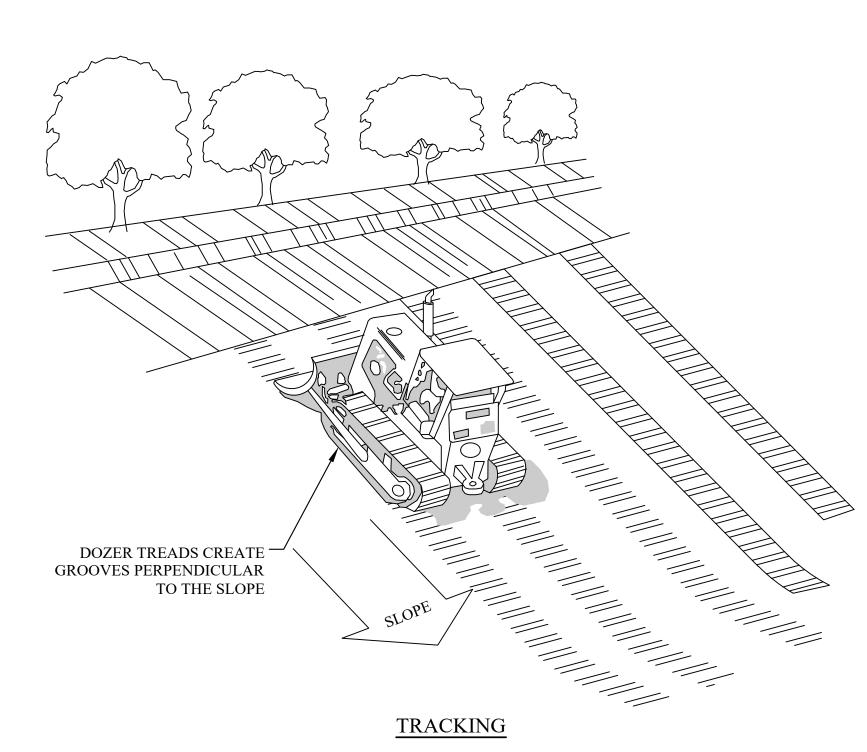


COMPOST SHALL MEET THE FOLLOWING STANDARDS: ORGANIC MATTER CONTENT 80% - 100% (DRY WEIGHT BASIS) ORGANIC PORTION FIBROUS AND ELONGATED 5.5 - 8.0 MOISTURE CONTENT 35% - 55% NOTES: 98% PASS THROUGH 1" SCREEN PARTICLE SIZE SOLUBBLE SALT CONCENTRATION 5.0 dS MAXIMUM 1. INSPECT COMPOST FILTER SOCK(S) AT LEAST ONCE A WEEK AND AFTER EACH RAIN EVENT GREATER THAN 0.5 INCHES. 2. REPAIR OR REPLACE SPLIT, TORN, RAVELING, OR SLUMPING COMPOST FILTER 3. REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1/2 THE HEIGHT BETWEEN THE TOP OF THE COMPOST FILTER SOCK AND THE GROUND SURFACE. EXISTING CONTOURS— 4. REPAIR ANY RILLS OR GULLIES PROMPTLY. 5. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED. DISTURBED AREA r−2" x 2" WOODEN STAKES 1000 BLOWN/PLACED-FILTER MEDIA —COMPOST FILTER SOCK UNDISTURBED AREA DISTURBED AREA 12" MIN. COMPOST FILTER SOCK -UNDISTURBED AREA -2" x 2" WOODEN STAKES PLACED 10' O.C. **SECTION VIEW** PLAN VIEW



EACH LIFT OF THE FILL IS COMPACTED, BUT THE OUTER FACE OF THE SLOPE IS ALLOWED TO REMAIN LOOSE SO THAT THE ROCKS, CLODS, ETC. REACH THE NATURAL ANGLE OF REPOSE.

FILL SLOPE TREATMENT



SURFACE ROUGHENING NOT TO SCALE

—MOUNTABLE BERM 70' MINIMUM EXISTING-GROUND —EXISTING -EXISTING **PAVEMENT PAVEMENT** 70' MINIMUM EXISTING— COARSE— COARSE GROUND AGGREGATE AGGREGATE -CULVERT FILTER-CLOTH SIDE ELEVATION 12' MINIMUM * EXISTING— POSITIVE DRAINAGE GROUND TO SEDIMENT TRAPPING DEVICE 10' MIN. * MUST EXTEND FULL WIDTH OF -COARSE INGRESS AND EGRESS OPERATION. AGGREGATE * MUST EXTEND FULL WIDTH OF PLAN VIEW -FILTER INGRESS AND EGRESS OPERATION. CLOTH **SECTION A-A**

COMPOST FILTER SOCK NOT TO SCALE

> WASH RACK-2" - 3" ROCK (8" THICK) EXTENDING 25' MIN. ON BOTH APPROACHES TO WASH RACK DRAIN SPACE - REINFORCED CONCRETE OR WELDED STEEL PIPE

COMPOST FILTER SOCK TO BE INSTALLED IN ACCORDANCE WITH FILTREXX MANUFACTURER

LENGTH ABOVE ANY DIAMETER SOCK SHALL NOT EXCEED THAT SHOWN ON BELOW TABLE.

OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED ACCORDING TO

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK

SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT

SOCKS SHALL BE INSPECTED AS DESCRIBED IN THE MAINTENANCE AND INSPECTION NOTES IN THE

EROSION AND SEDIMENT CONTROL NOTES OF THESE PLANS. DAMAGED SOCKS SHALL BE REPAIRED

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS

AFTER 1YR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, ALL STAKES SHALL BE REMOVED. DEGRADABLE FILTER SOCK MAY BE LEFT IN PLACE AND VEGETATED - THE MESH SHALL BE CUT

OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING. THE MESH FROM ALL POLYPROPYLENE FILTER SOCKS SHALL BE REMOVED - THE MULCH SHALL BE SPREAD AS A SOIL

SPECIFICATIONS, OR AN APPROVED EQUAL.

MANUFACTURER'S RECOMMENDATIONS.

SUPPLEMENT PRIOR TO SEEDING.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

MAINTENANCE:

ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

STONE CONSTRUCTION ENTRANCE WITH WASH RACK NOT TO SCALE

WASH RACK DETAIL NOT TO SCALE

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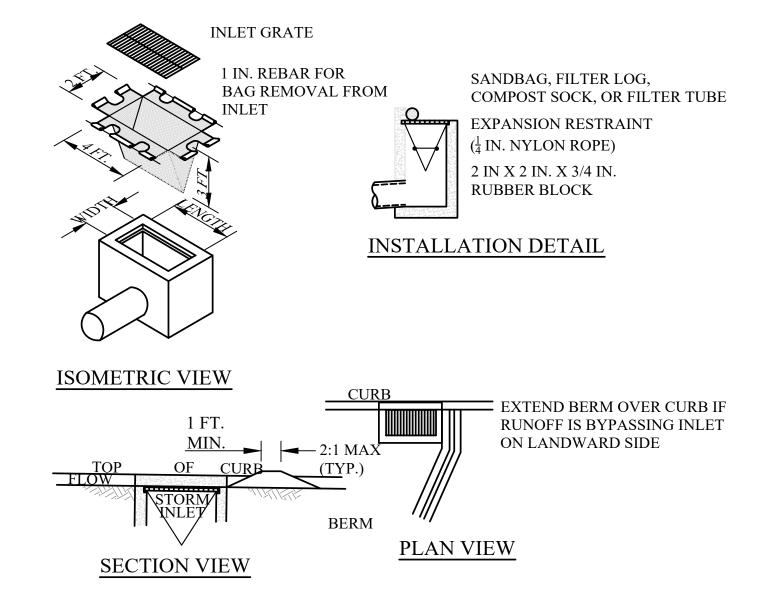
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DETAILS

- 1. SIGNS SHOULD DESIGNATE THE LOCATION OF THE WASHOUT AREA, AND CONTRACTOR PERSONNEL SHOULD BE INFORMED OF ITS LOCATION.
- 2. STRAW BALES MAY BE SUBSTITUTED WITH SANDBAGS, WOOD, OR THE LIKE AND LINED WITH A TOTAL THICKNESS OF 10 MIL PLASTIC
- 3. CONCRETE WASHOUT AREAS SHOULD BE SITED A MINIMUM OF 50 YARDS AWAY FROM ANY STORM DRAINS OR WATERWAYS TO PREVENT ACCIDENTAL DISCHARGE.
- 4. INSPECT THE CONCRETE WASHOUT FACILITY DAILY TO DETECT LEAKS OR STRUCTURAL DEFICIENCIES, AND TO REMOVE ANY ACCUMULATED WASTE MATERIALS, AS NECESSARY.
- 5. HARDENED CONCRETE SHOULD BE RECYCLED OR DISPOSED OF PROPERLY. 6. ANY REMAINING LIQUID SHOULD BE COLLECTED AND RECYCLED AT THE CONCRETE PLANT, OR DISPOSED OF IN A LEAK-PROOF CONTAINER WITH

VISIBLE SIGN LOCATING THE CONCRETE WASHOUT AREA

TYPICAL CONCRETE WASHOUT AREA NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

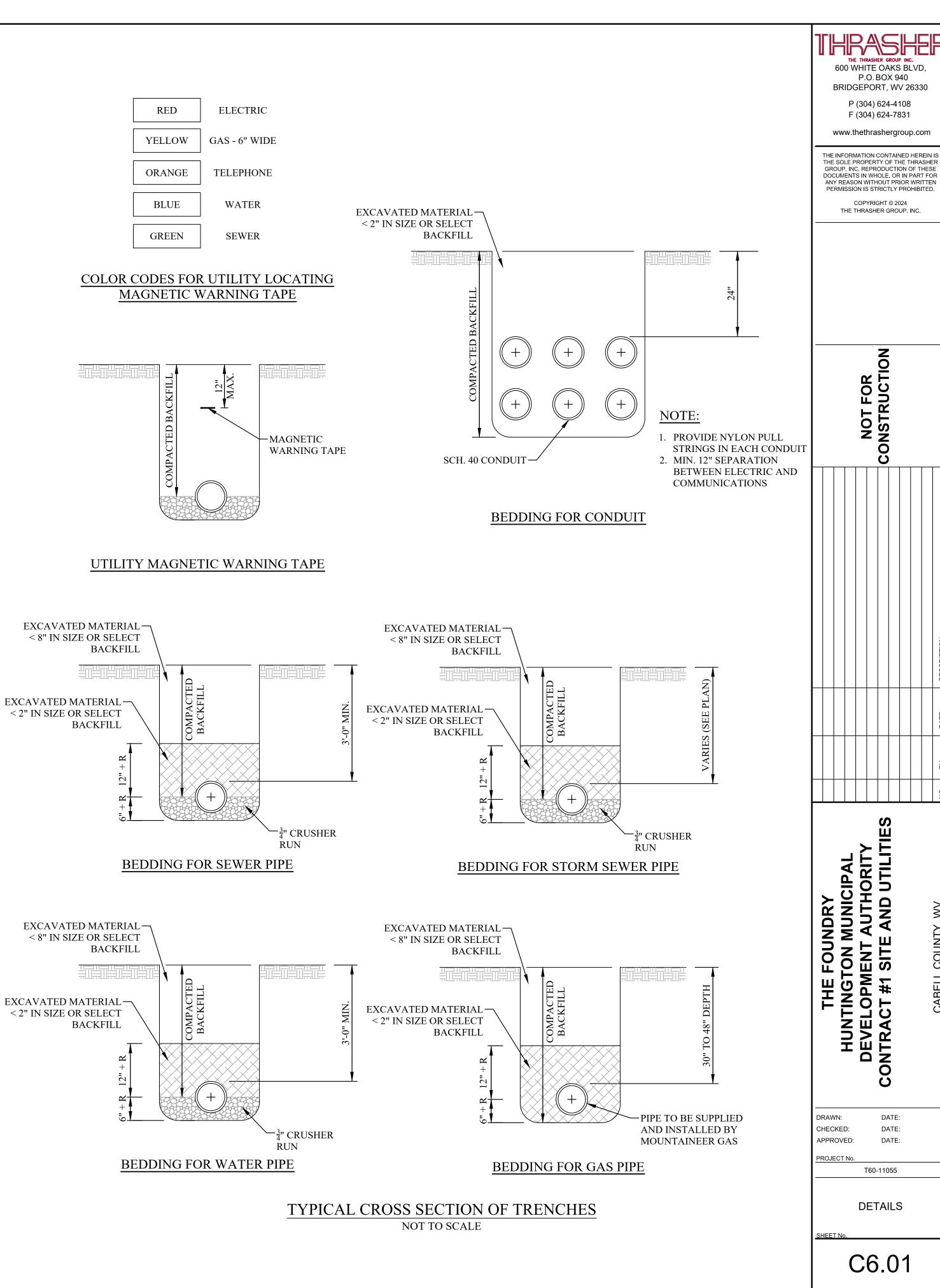
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

> FILTER BAG INLET PROTECTION NOT TO SCALE



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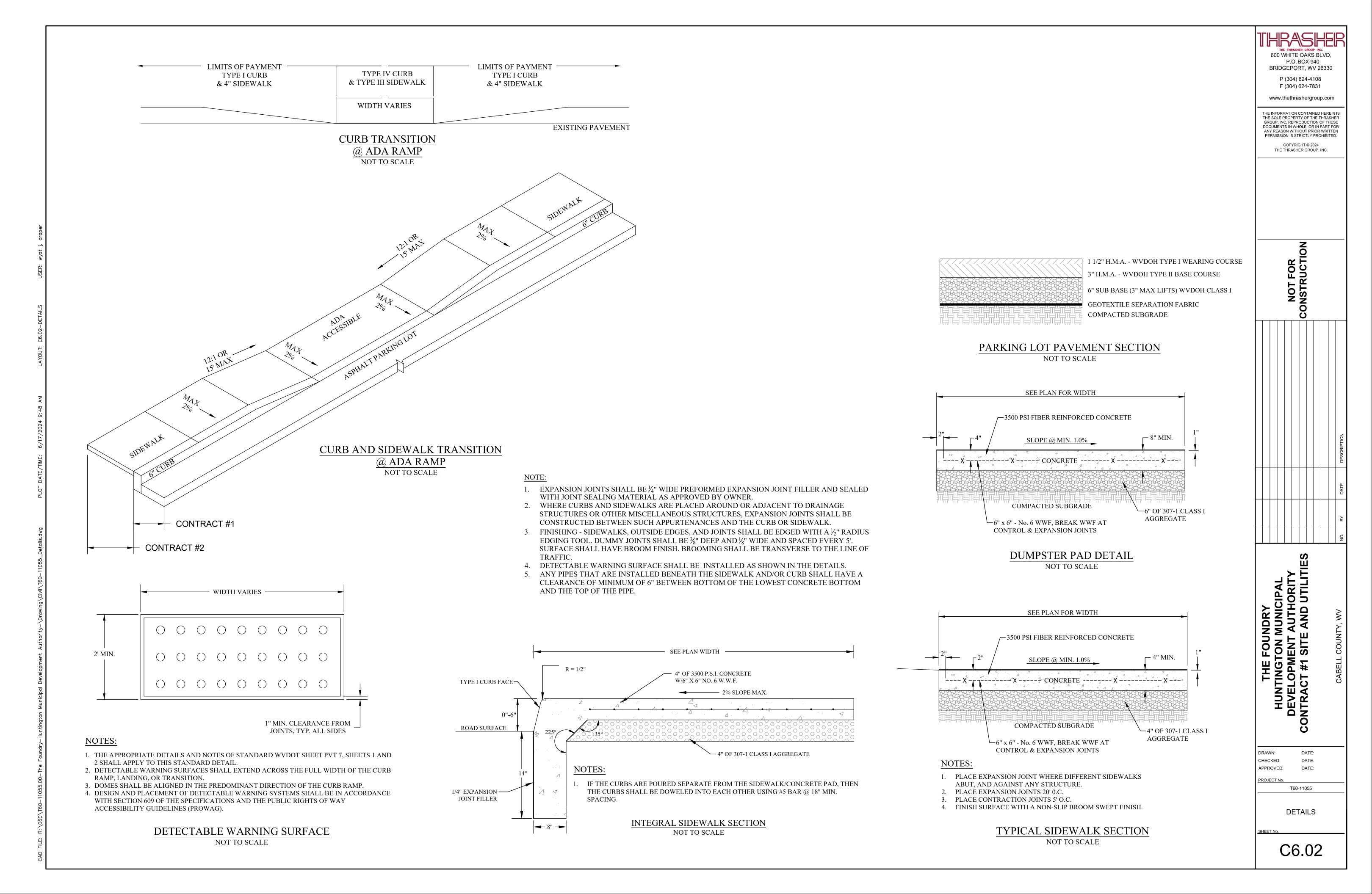
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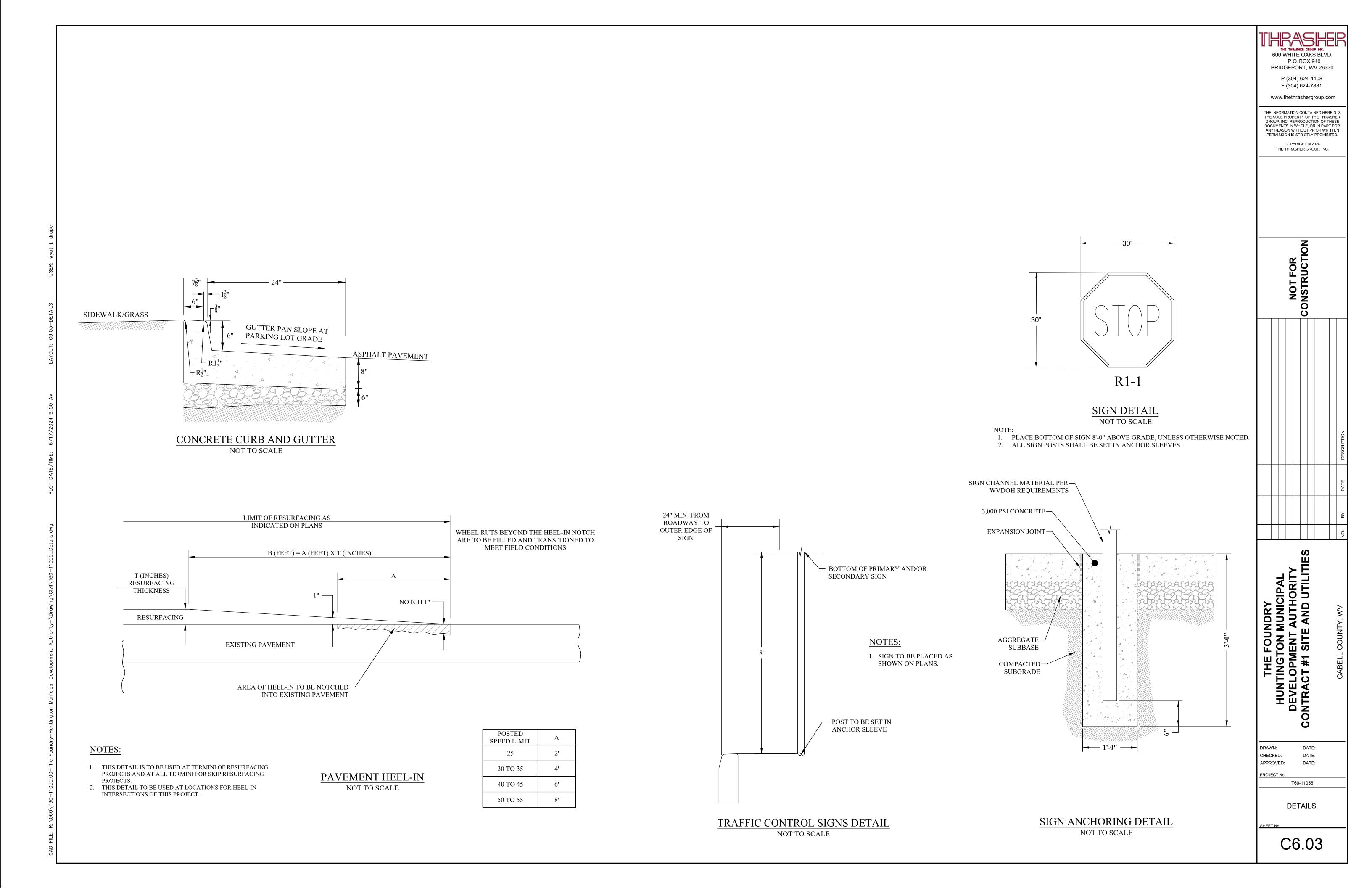
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DETAILS

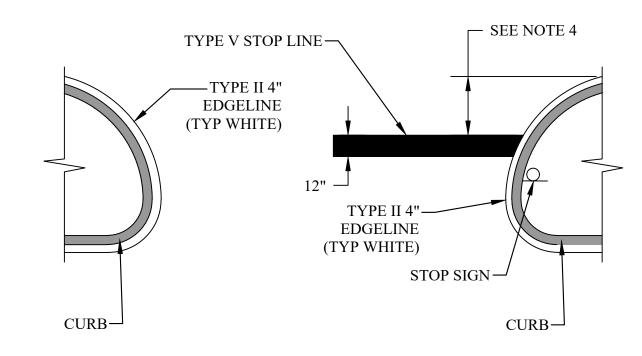
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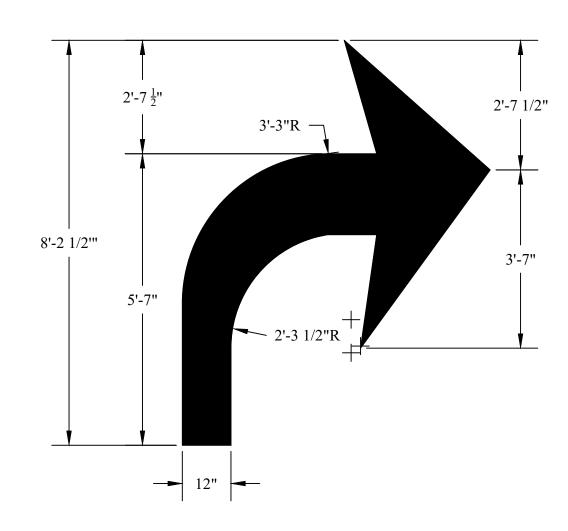




- THE PLANS OR AS DIRECTED BY ENGINEER.
- 2. ALL STOP LINE MARKINGS SHALL BE WHITE IN COLOR.
- 3. STOP LINE MARKING SHALL BE MADE OF WHITE TYPE V
 MATERIAL (WVDOH)
- 4. IN THE ABSENCE OF A MARKED CROSSWALK, THE STOP LINE SHOULD NOT BE PLACED MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF INTERSECTING TRAVELED WAY.



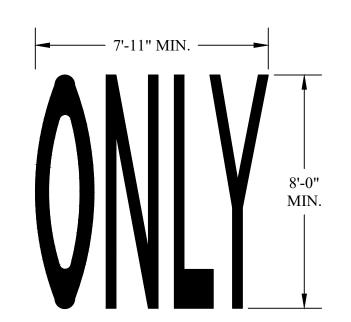
TYPICAL STOP LINE PAVEMENT MARKING NOT TO SCALE



TYPICAL LANE ASSIGNMENT RIGHT ONLY DIRECTIONAL AAROW MARKING NOT TO SCALE

NOTES:

- 1. LOCATION OF WORD MARKING SHALL BE AS SHOWN ON THE
- PLANS OR AS OTHERWISE SPECIFIED.
- 2. ALL WORD MARKINGS SHALL BE WHITE IN COLOR. (EXCEPTION: MARKINGS VISIBLE ONLY TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION MAY BE RED.
- 3. WORD MARKING SHALL BE MADE OF WHITE TYPE V MATERIAL AS INDICATED ON THE CONTRACT PLANS. ENHANCED SKID RESISTANT TYPE V MATERIAL SHALL BE USED WHEN SPECIFIED.
- 4. WORD MARKINGS SHALL BE MADE UP OF LETTERS OF THE SHAPE AND PROPORTION AS SHOWN IN SECTION 10 OF THE FHWA PUBLICATION "STANDARD HIGHWAY SIGNS AND MARKINGS", LATEST EDITION.



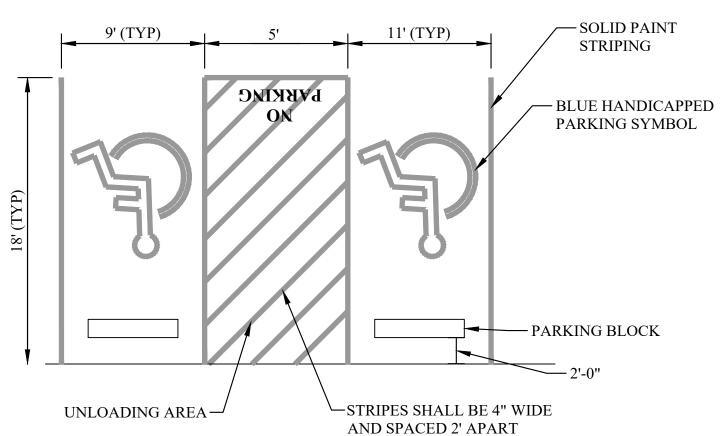
TYPICAL WORD PAVEMENT MARKING
NOT TO SCALE

NOTE

PARKING STALL PAINTING

NOT TO SCALE

9' (TYP)



- SOLID WHITE PAINT

STRIPING AS SPECIFIED

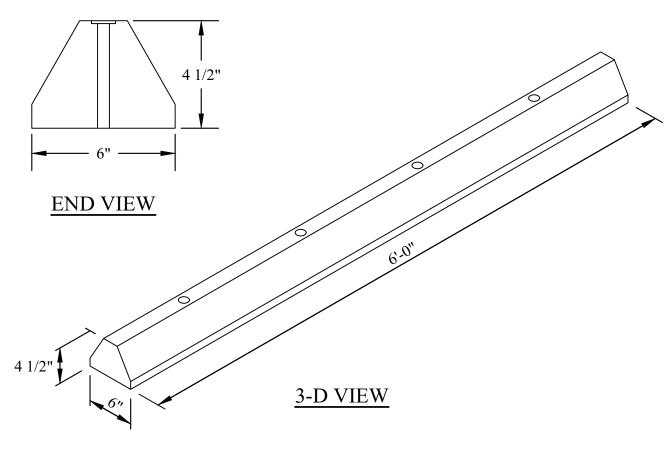
NOTES:

- SEE PLAN FOR CONFIGURATION OF AREA SHOWN.
- 2. PARKING LOT GRADE WITHIN ADA PARKING SPACES AND LOADING SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 3. VAN ACCESSIBLE SHALL BE PARKING STALL 11' WIDE
- 4. NO PARKING TO BE ADDED TO BOTTOM OF ACCESS AISLE. TEXT SHALL BE 12" IN HEIGHT.

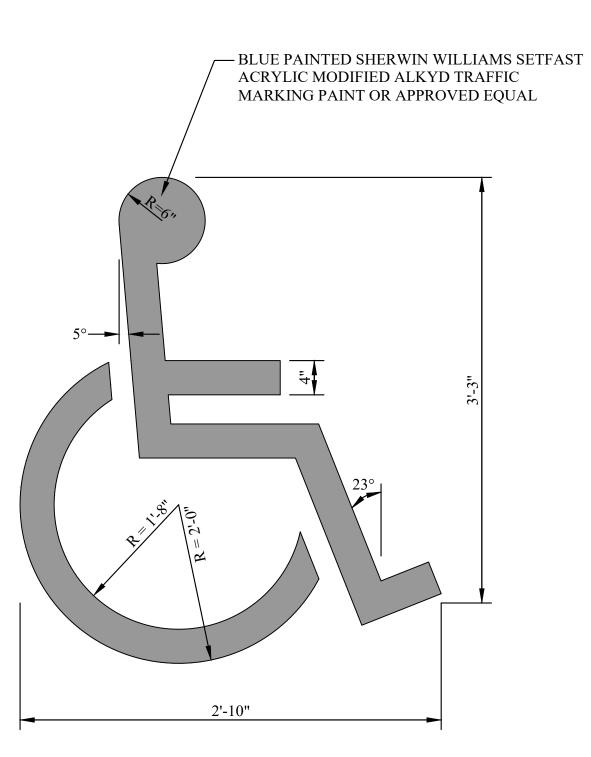
HANDICAPPED PARKING NOT TO SCALE

NOTES:

- HARDWARE INSTALLATION HOLES ARE DRILLED WITH 1/2" DRILL BIT.
 USE 14" X 1/2" REBAR SPIKE WITH 5/8" WASHER FOR ASPHALT OR GRAVEL INSTALLATIONS. 6" X 1/2" LAG SCREW, WASHER AND SHORT SHIELD FOR CONCRETE INSTALLATIONS.
- 3. USE 10 OUNCE OF EPOXY OR CONSTRUCTION ADHESIVE (I.E. POLYURETHANE PL PREMIUM) FOR INSTALLATIONS WHERE NO HARDWARE IS ALLOWED (I.E. PARKING GARAGES).



RUBBER PARKING
BUMPER
NOT TO SCALE



INTERNATIONAL HANDICAP SYMBOL NOT TO SCALE THE THRASHER GROUP INC.
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CONSTRUCTION

NO. BY DATE DESCRIPTION

FOUNDRY
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IENT AUTHORITY
SITE AND UTILITIES

HUNTINGTON MU DEVELOPMENT AU CONTRACT #1 SITE AI

DRAWN: DATE:
CHECKED: DATE:

APPROVED: DATE:

PROJECT No. T60-11055

DETAILS

SHEET No

THRUST BLOCKING

- THE THRUST BLOCKING SHALL BE FORMED AGAINST A SOLID TRENCH WALL. THE FITTING AREAS SHALL BE EXCAVATED BY HAND BECAUSE MECHANICAL EQUIPMENT WILL DAMAGE THE BEARING SURFACE OF THE TRENCH WALL.
- THE SIZE AND TYPE OF THRUST BLOCK
 DEPENDS ON THE PIPE SIZE, LINE PRESSURE,
 TYPE OF FITTING, DEGREE OF BEND AND TYPE
 OF SOIL. IN MOST CASES, THE SIZE AND TYPE
 OF THRUST BLOCK WILL BE DETERMINED BY
 THE ENGINEER. THRUST BLOCK SIZE MAY BE
 CALCULATED BY THE PROCEDURES SHOWN
 AT RIGHT.

THRUSTS IN SOFT UNSTABLE SOILS

IN SOFT, UNSTABLE SOILS SUCH AS MUCK OR PEAT, THRUSTS ARE RESISTED BY RUNNING CORROSION-RESISTANT TIE-RODS TO SOLID FOUNDATIONS OR BY REMOVING THE SOFT MATERIAL AND REPLACING IT WITH BALLAST OF SUFFICIENT SIZE AND WEIGHT TO RESIST THRUSTS DEVELOPED.

UPWARD THRUSTS AT FITTINGS

WHERE A FITTING IS USED TO MAKE A VERTICAL BEND, ANCHOR THE FITTING TO A THRUST BLOCK BRACED AGAINST THE UNDISTURBED SOIL. THE THRUST BLOCK SHALL HAVE ENOUGH RESISTANCE TO WITHSTAND UPWARD AND OUTWARD THRUSTS AT THE FITTING.

SIDE THRUST ON CURVES

1. AN OUTWARD PRESSURE EXISTS ON ALL DEFLECTIONS FROM A STRAIGHT LINE. GOOD SOIL, PROPERLY TAMPED, IS SUFFICIENT TO HOLD SIDE THRUST UNLESS SOIL CONDITIONS ARE UNSTABLE. IN THAT CASE, TO ANCHOR AGAINST THIS SIDE THRUST, THE BLOCKING SHOULD BE PLACED AGAINST THE PIPE ON EACH SIDE OF THE COUPLING. DO NOT THRUST BLOCK THE COUPLING ITSELF.

SIDE THRUST

PIPE SIZE	SIDE THRUST
INCHES	POUNDS PER DEGREE
1 1/2"	5.1
2"	7.9
2 1/2"	11.6
3"	17.1
3 1/2"	22.4
4"	28.3
5"	43.1
6"	60.8
8"	103.0
10"	160.0
12"	225.0

BASED ON SIDE THRUST PER 100 POUNDS PER SQUARE INCH (PSI) PRESSURE PER DEGREE OF DEFLECTION

MULTIPLY SIDE THRUST POUNDS BY DEGREE OF DEFLECTION TIMES POUNDS OF PRESSURE DIVIDED BY 100 TO OBTAIN TOTAL SIDE THRUST IN POUNDS.

STEP No. 1:

MULTIPLY THE PRESSURE LEVEL DESIRED FOR TESTING BY THE APPROPRIATE VALUE SHOWN IN THE FOLLOWING TABLE:

PIPE SIZE 1.5"	DEAD END OR TEE 2.94	90° ELBOW 4.16	45° ELBOW 2.25	22 1/2° ELBOW 1.15
2"	4.56	6.45	3.50	1.78
2.5"	6.65	9.40	5.10	2.60
3"	9.80	13.9	7.51	3.82
3.5"	12.8	18.1	9.81	4.99
4"	16.2	23.0	12.4	6.31
5"	24.7	35.0	18.9	9.63
6"	34.8	49.2	26.7	13.6
8"	59.0	83.5	45.2	23.0
10"	91.5	130.0	70.0	35.8
12"	129.0	180.0	98.5	50.3

BASED ON POUNDS THRUST PER PSI WORKING PRESSURE

STEP No. 2:

DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW:

SOILS AND SAFE BEARING LOADS LBS SQ. FT.

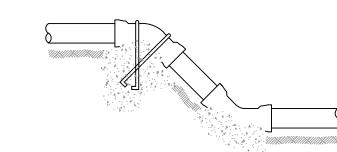
SOUND SOILS	10,000	
CEMENTED GRAVEL AND SAND DIFFICULT TO PICK	4,000	
COURSE AND FINE COMPACT SAND	3,000	
MEDIUM CLAY THAT CAN BE SPADED	2,000	
SOFT CLAY	1,000	
MUCK	0	

STEP No. 3:

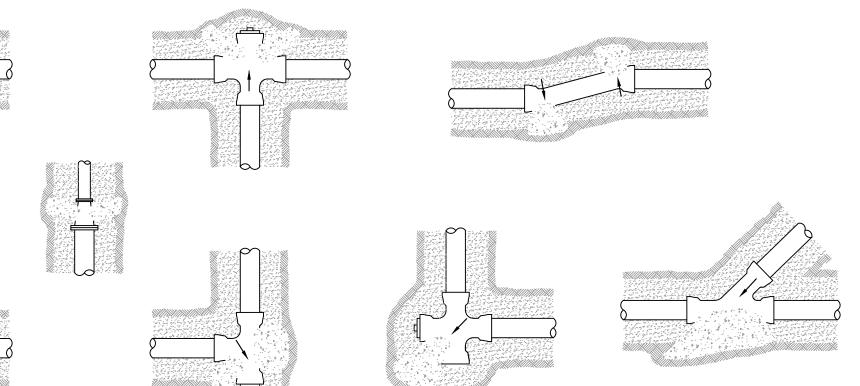
DIVIDE THE TOTAL THRUST OBTAINED IN STEP 1 BY THE BEARING STRENGTH OF SOIL THIS GIVES THE SQUARE FEET OF THE AREA NEEDED.

THRUST BLOCK GENERAL NOTES:

- 1. ALL CONCRETE THRUST BLOCKING SHALL MEET 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- 2. ALL FITTINGS SHALL BE WRAPPED WITH 4 MIL PLASTIC PRIOR TO PLACING CONCRETE THRUST BLOCK.



VERTICAL FITTINGS



HORIZONTAL FITTINGS

CONCRETE THRUST BLOCK DETAILS

NOT TO SCALE



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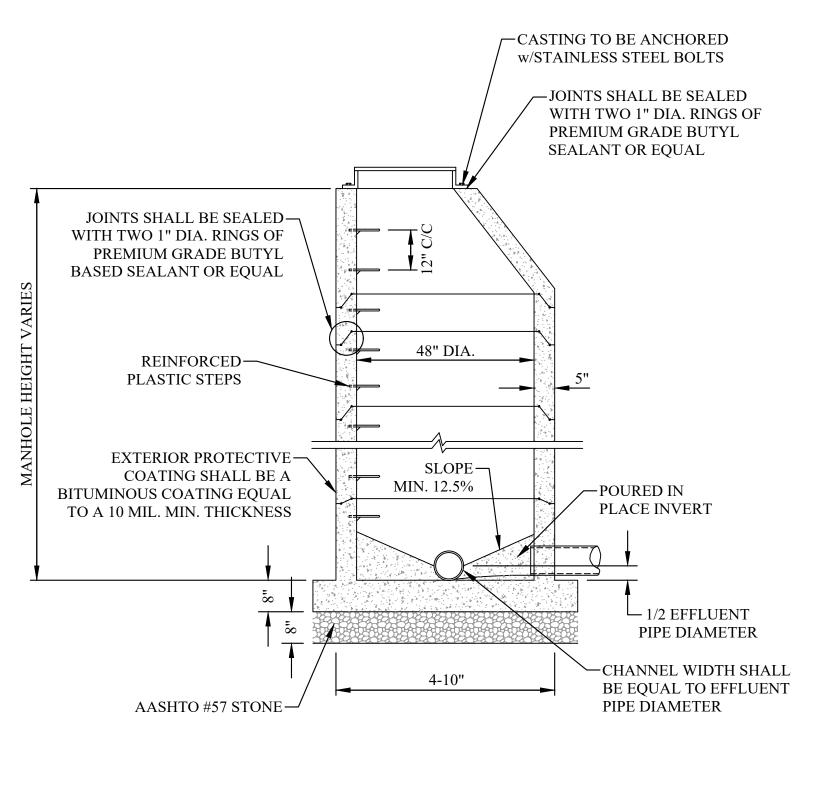
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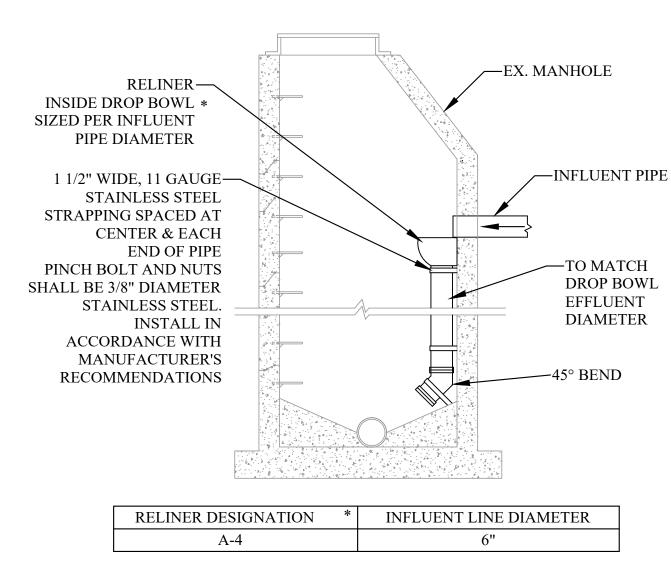
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DETAILS





INTERIOR DROP MANHOLE

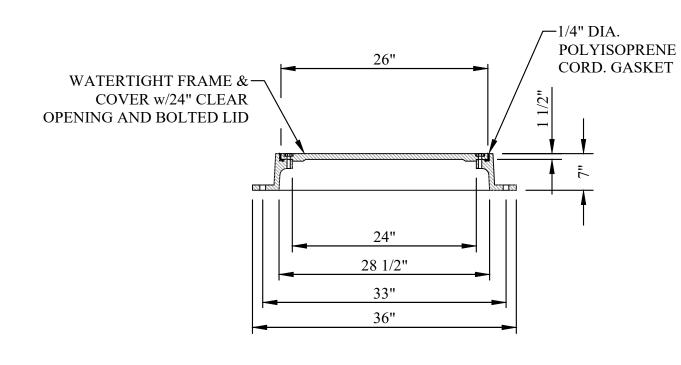
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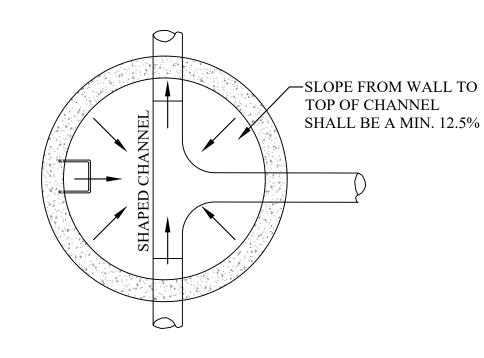
SPECIAL CONSTRUCTION REQUIREMENTS NOTES FROM

WEST VIRGINIA 64 CSR 47, PAGE 6 1) IN CASES WHERE WATER AND GRAVITY OR PRESSURE SANITARY SEWER LINES MUST LAY CLOSER THAN TEN (10) FEET APART, THE SEWER LINE CONSTRUCTION SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES LOWER THAN THE WATER LINE AND CONSTRUCTED OF A PRESSURE TYPE PIPE MEETING REQUIREMENTS FOR WATER LINES. THE INSTALLATION SHALL UNDERGO HYDRAULIC TESTING FOR A PERIOD OF NOT LESS THAN TWENTY-FOUR (24) HOURS AND WILL BE CONSIDERED SATISFACTORY IF LEAKAGE IS NOT MORE THAN 0.25 GALLONS PER INCH DIAMETER OF PIPE PER JOINT. IN LIEU OF HYDRAULIC TESTING, THE SEWER LINE CAN BE AIR TESTED. THE PLACEMENT OF THE WATER LINE SHALL BE UPON AN UNDISTURBED EARTH SHELF OR BENCH. BACKFILLING TO CREATE THE BENCH IS NOT PERMISSIBLE.

2) IF MAINTAINING A VERTICAL CLEARANCE OF EIGHTEEN (18) INCHES IS NOT POSSIBLE, THE LOCATION OF THE GRAVITY OR PRESSURE SANITARY SEWER SHALL BE SO THAT IT CROSSES BETWEEN JOINTS OF THE WATER LINE. ALSO, CONSTRUCTION OF THE SEWER LINE SHALL BE SO THAT IT CROSSES UNDER THE WATER LINE AT MID JOINT. THE CONSTRUCTION OF THE SEWER SHALL BE OF A PRESSURE TYPE PIPE MEETING THE REQUIREMENTS FOR WATER LINES AT THE CROSSING. A MINIMUM VERTICAL CLEARANCE OF SIX (6) INCHES BETWEEN THE SEWER AND WATER LINES SHALL BE MAINTAINED. THE CONSTRUCTION OF A GRAVITY OR PRESSURE SANITARY SEWER LINE, OR BOTH, SHALL NOT BE OVER THE TOP OF A WATER LINE. ENCASE THE SEWER LINE SO THAT THE CASING EXTENDS AT LEAST TEN (10) FEET ON EACH SIDE OF THE CROSSING.

SEPARATION OF SEWER
AND WATER LINES
NOT TO SCALE



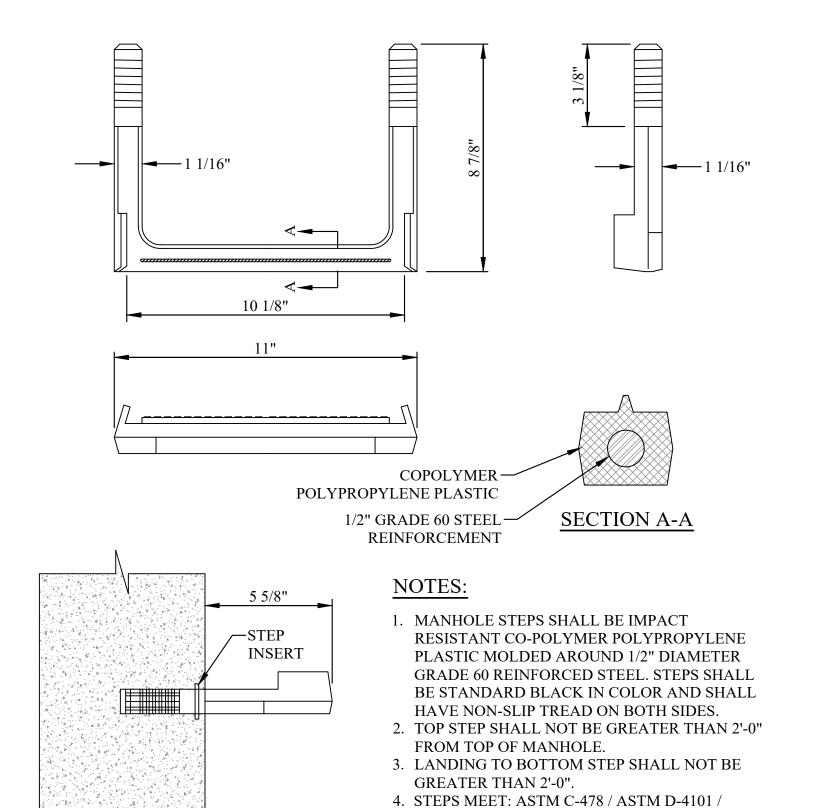


NOTES:

- 1. MANHOLES & CLEANOUTS TO BE BURIED 1' MIN. UNDER WVDOH
- ROADWAY DITCHES & 6" MIN. IN THE SHOULDER AREAS.

 2. CHANNEL SLOPES SHALL BE A MIN. OF 0.10 SLOPE FROM PIPE
- INVERT THROUGH PIPE INVERT OUT.
- 3. ALL SEALED JOINTS IN MANHOLE TO BE WATERTIGHT.
- 4. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION, AND SHALL INCLUDE CAST IN PLACE FLEXIBLE PIPE TO MANHOLE CONNECTORS AT ALL PIPE PENETRATIONS.





MANHOLE STEP

NOT TO SCALE

ASTM A-615 / AASHTO M-199

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THE FOUNI HUNTINGTON MI DEVELOPMENT A

600 WHITE OAKS BLVD, P.O. BOX 940

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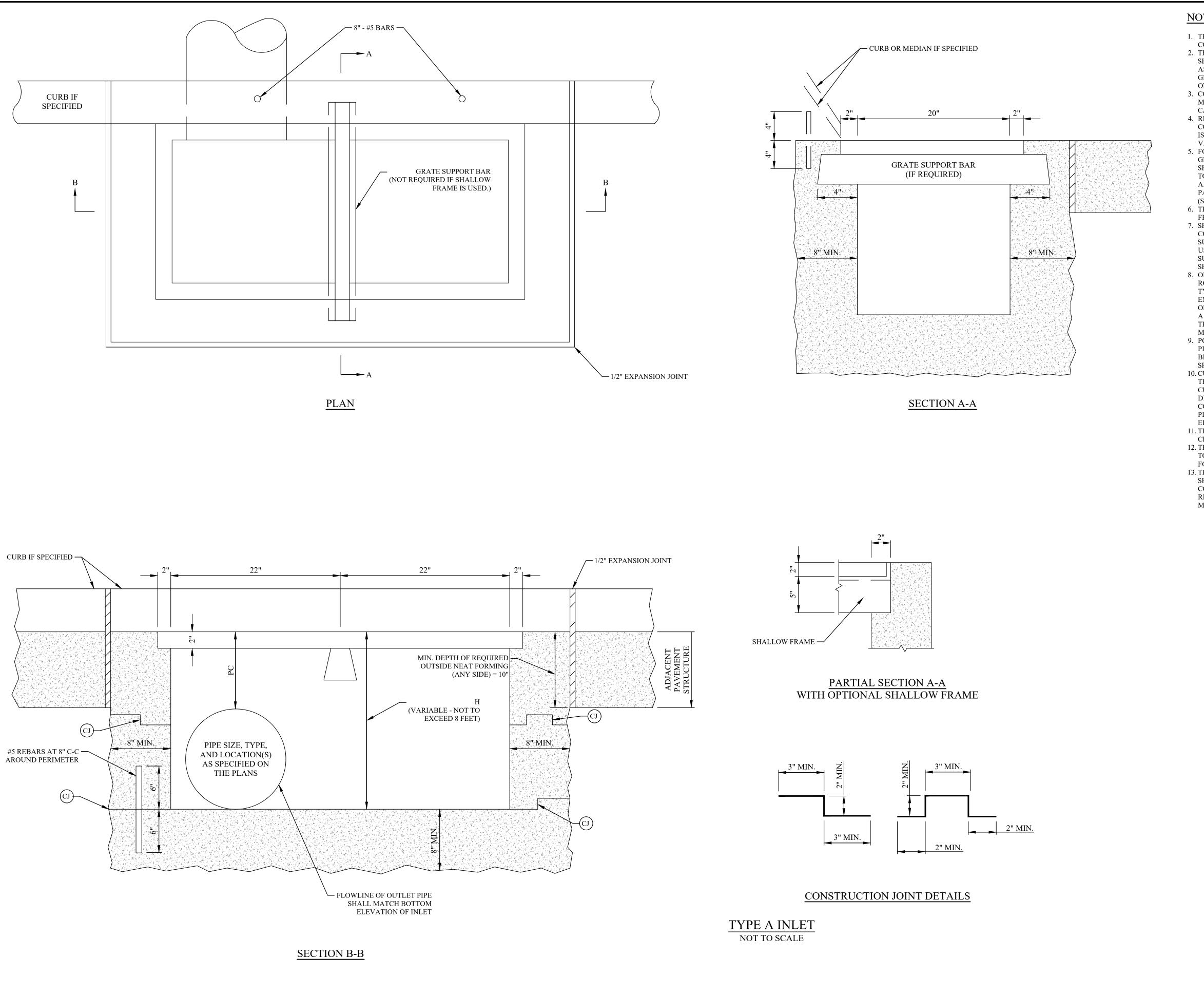
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NOTES:

- 1. THIS INLET SHOULD ONLY BE SPECIFIED WHEN ABUTTING CONCRETE PAVEMENT.
- 2. THE FINAL INSTALLED TOP SURFACE OF INLET AND GRATE SHALL BE FLUSH WITH ADJACENT FINISHED SURFACES SUCH AS PAVEMENT, GUTTERS, CURBS, AND SIDEWALKS. TOP OF GRATE ELEVATION, IF SHOWN ON PLANS, IS FOR INFORMATION
- 3. CONSTRUCTION MAY BE CAST-IN-PLACE, PRECAST IN ONE OR MORE MULTIPLE SECTIONS, OR ANY COMBINATION OF CAST-IN-PLACE AND PRECAST.
- 4. REBARS ARE TO BE INSTALLED AT THE THIRD POINTS TO CONNECT CURB TO INLET. REBARS ARE NOT REQUIRED IF CURB IS POURED MONOLITHICALLY WITH THE INLET OR IF TYPE V OR VI MEDIAN IS SPECIFIED ON THE PLANS.
- 5. FOR DETAILS OF GRATE SUPPORT BAR, SHALLOW FRAME, AND GRATES (TWO REQUIRED), SEE INLET CASTINGS STANDARD SHEET DR6-X. USE OF THE SHALLOW FRAME WILL BE LIMITED TO ROADWAYS CONSTRUCTED OF CONCRETE PAVEMENT. IF ADJACENT ROADWAY IS BUILT OF HOT MIX ASPHALT PAVEMENT, THE FRAME AS REQUIRED FOR A TYPE F INLET (STANDARD SHEET DR6F) WILL BE REQUIRED.
- 6. THE CONTRACTOR MAY, AT HIS OPTION, OMIT USE OF THE FRAME BY FORMING A LEDGE IN THE CONCRETE.
- 7. SPECIAL CARE SHALL BE EXERCISED IN FORMING THE 2" WIDE CONCRETE LEDGE TO PROVIDE A SMOOTH, EVEN SURFACE FOR SUPPORTING THE GRATES IF THE SHALLOW FRAME IS NOT USED. NO PROJECTIONS SHALL EXIST ON THE BEARING SURFACES OF THE LEDGE OR THE GRATES, AND THE GRATES SHALL SEAT ON THE LEDGE WITHOUT ROCKING.
- 8. OPTIONAL CONSTRUCTION JOINTS LABELED "CJ" MAY BE ROUGHENED CONCRETE, KEYED OR DOWELED AS PER THE TYPICAL DETAILS SHOWN HEREIN OR APPROVED BY THE ENGINEER. NON SHRINK GROUT MEETING THE REQUIREMENTS OF SUBSECTION 715.5 OF THE SPECIFICATIONS MAY BE USED TO A DEPTH OF 1/2" FOR LEVELING BETWEEN PRECAST SECTIONS. THICKER DEPTHS WILL BE ALLOWED IF AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- 9. PC (MINIMUM PIPE COVER) SHALL BE 12" BELOW INLET TOP FOR PIPES PLACED UNDER SIDEWALK OR GRASSED AREA OR 24" BELOW INLET TOP FOR PIPES PLACED UNDER PAVEMENT OR SHOULDER.
- 10. CURB, IF SPECIFIED, MAY BE EITHER CONCRETE PLACED ON THE INLET BACKWALL AS DETAILED HEREIN OR AN APPROVED CURB BOX AS MANUFACTURED WITH THE GRATE AND FRAME. DIMENSIONS OF THE CURB BOX SHOULD REASONABLY CONFORM TO THE STANDARD CURB AS SPECIFIED ON THE PLANS. THE CURB WILL BE PAID FOR PER SECTION 610, IN EITHER CASE.
- 11. THIS INLET SHALL NOT BE PLACED IN A PEDESTRIAN CROSSWALK.
- 12. THE MINIMUM DISTANCE FROM THE TOP OF ANY PIPE OPENING TO ANY CONSTRUCTION JOINT ABOVE THE OPENING SHALL BE FOUR (4) INCHES.
- 13. THE NUMBER AND LOCATION OF PIPE OPENINGS SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR AT NO ADDITIONAL COST, SHALL BE RESPONSIBLE FOR ANY TEMPORARY BRACING REQUIRED TO TRANSPORT PRECAST INLET SECTIONS DUE TO MULTIPLE OPENINGS.

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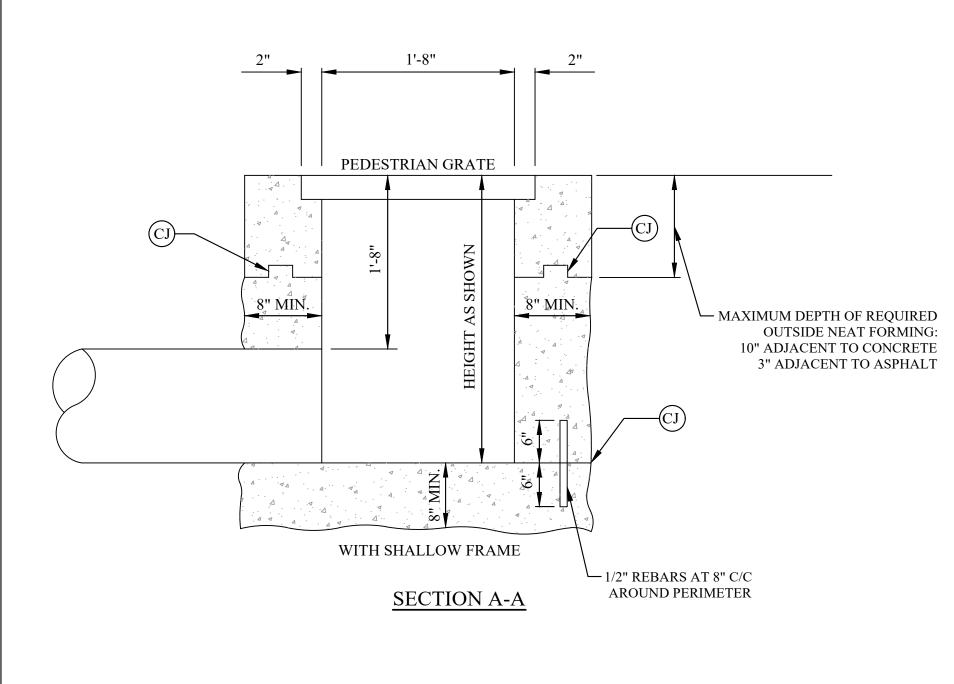
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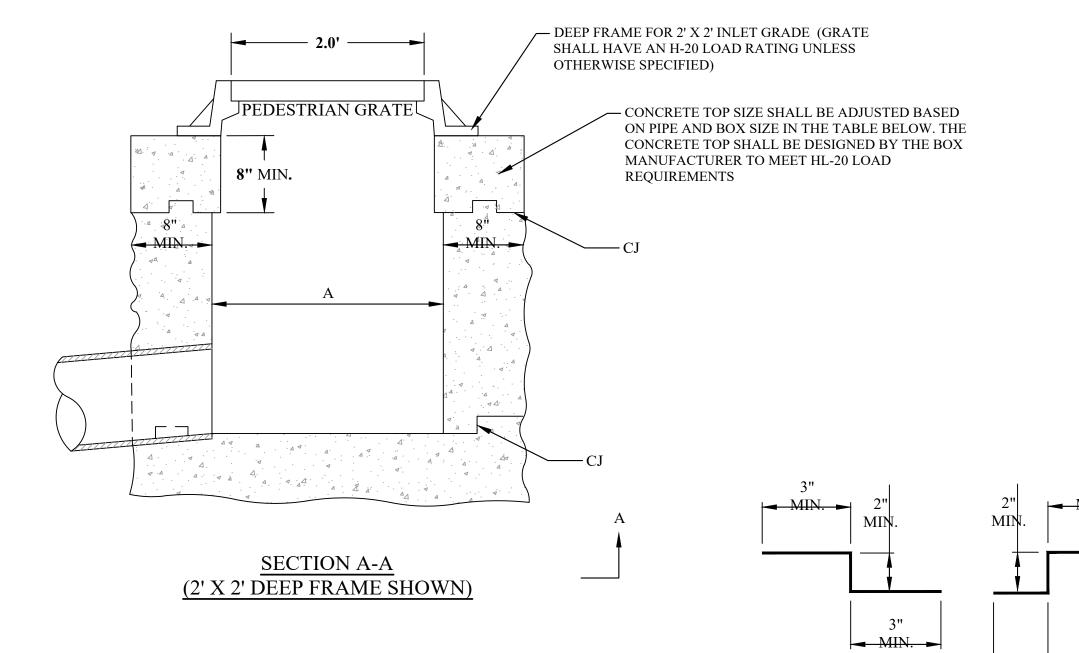


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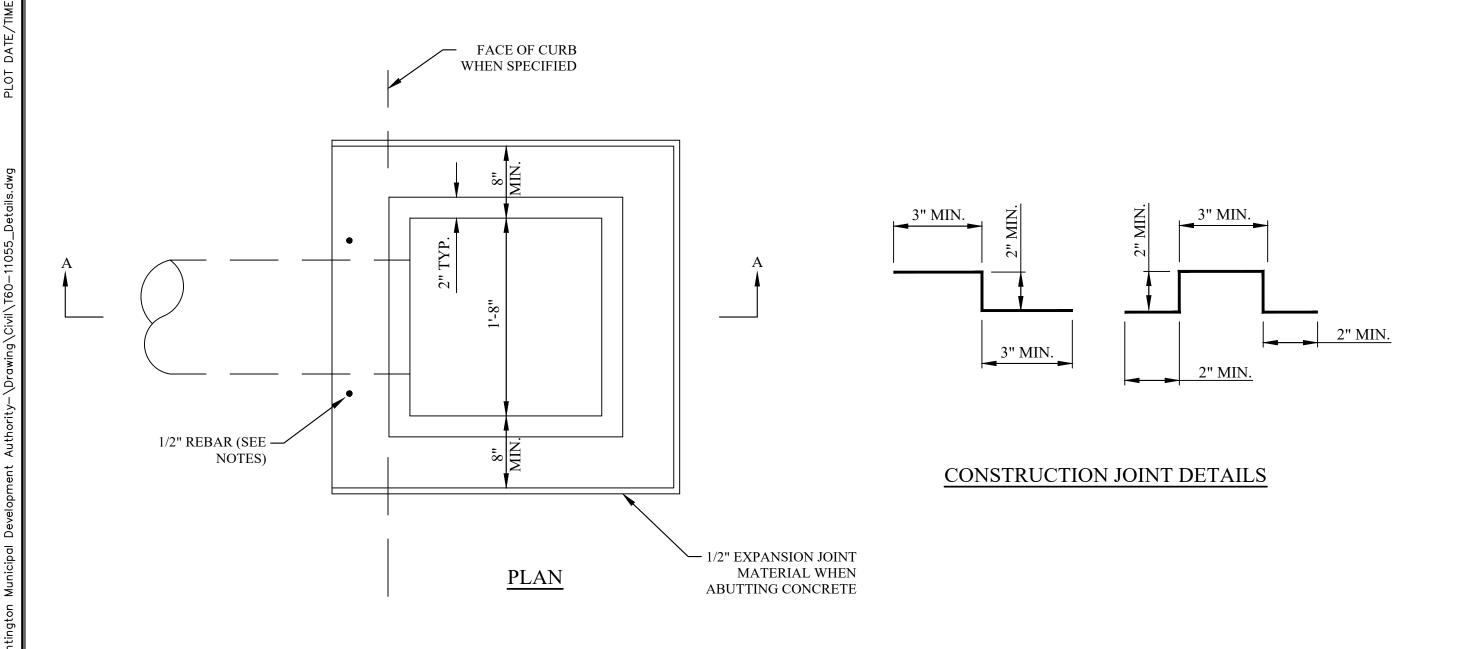
1. SHALLOW FRAMES ARE ONLY TO BE USED IN THE LAWN AREAS.

NOTES:

- 1. UNLESS OTHERWISE SPECIFIED ON THE PLANS, TYPE B INLETS
- ARE TO BE CONSTRUCTED IN THE SHAPE SHOWN. 2. CONSTRUCTION MAY BE CAST-IN-PLACE, PRECAST IN ONE OR MORE MULTIPLE SECTIONS, OR ANY COMBINATION OF CAST-IN-PLACE AND PRECAST.
- 3. OPTIONAL CONSTRUCTION JOINTS LABELED "CJ" MAY BE ROUGHENED CONCRETE, KEYED OR DOWELED AS PER THE TYPICAL DETAILS SHOWN HEREIN, OR AS APPROVED BY THE ENGINEER. NON SHRINK GROUT MEETING THE REQUIREMENTS OF SUBSECTION 715.5 OF THE SPECIFICATIONS MAY BE USED TO A DEPTH OF 1/2" FOR LEVELING BETWEEN PRECAST SECTIONS. THICKER DEPTHS WILL BE ALLOWED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- MAXIMUM DEPTH OF REQUIRED 4. THE FINAL INSTALLED TOP SURFACE OF INLET AND GRATE OUTSIDE NEAT FORMING: SHALL BE FLUSH WITH ADJACENT FINISHED SURFACES SUCH 10" ADJACENT TO CONCRETE AS PAVEMENT, GUTTERS, CURBS, AND SIDEWALKS. TOP OF GRATE ELEVATION, IF SHOWN ON THE PLANS, IS FOR INFORMATION ONLY.
 - 5. REBARS ARE TO BE INSTALLED AT THE QUARTER POINTS TO CONNECT CURB TO INLET. REBARS ARE NOT REQUIRED IF CURB IS POURED MONOLITHICALLY WITH THE INLET OR IF TYPE V OR
 - VI MEDIAN IS SPECIFIED ON THE PLANS. 6. THE CONTRACTOR MAY, AT HIS OPTION, OMIT USE OF THE
 - SHALLOW FRAME BY FORMING A LEDGE IN THE CONCRETE. 7. SPECIAL CARE SHALL BE EXERCISED IN FORMING THE 2" WIDE CONCRETE LEDGE TO PROVIDE A SMOOTH, EVEN SURFACE FOR SUPPORTING THE GRATE IF A FRAME IS NOT USED. NO PROJECTIONS SHALL EXIST ON THE GRATE AND THE GRATE SHALL SEAT ON THE LEDGE WITHOUT ROCKING.
 - 8. FIBRE FORM SHALL BE REMOVED PRIOR TO COMPLETION OF
 - THE PROJECT. 9. PC (MINIMUM PIPE COVER) SHALL BE 12" BELOW INLET TOP FOR PIPES PLACED UNDER SIDEWALK OR GRASSED AREA OR 24" BELOW INLET TOP FOR PIPES PLACED UNDER PAVEMENT OR SHOULDER.
 - 10. CURB, IF SPECIFIED, MAY BE EITHER CONCRETE PLACED ON THE INLET BACKWALL AS DETAILED HEREIN OR AN APPROVED CURB BOX AS MANUFACTURED WITH THE GRATE AND FRAME. DIMENSIONS OF THE CURB BOX SHOULD REASONABLY CONFORM TO THE STANDARD CURB AS SPECIFIED IN THE PLANS. THE CURB WILL BE PAID FOR PER SECTION 610, IN EITHER CASE.
 - 11. THIS INLET SHALL NOT BE PLACED IN A PEDESTRIAN CROSS
 - 12. THE MINIMUM DISTANCE FROM THE TOP OF ANY PIPE OPENING TO ANY CONSTRUCTION JOINT ABOVE THE OPENING SHALL BE FOUR (4) INCHES.
 - 13. THE NUMBER AND LOCATION OF PIPE OPENINGS SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR AT NO ADDITIONAL COST, SHALL BE RESPONSIBLE FOR ANY TEMPORARY BRACING REQUIRED TO TRANSPORT PRECAST INLET SECTIONS DUE TO MULTIPLE OPENINGS.



CONSTRUCTION JOINT DETAILS



3" X 2 1/2" X 3/8" ANGLE — 6.6 Lb./L.F. 2 3/4" X 7/16" · STRAP (TYP.) 3/8" FILLET WELD -3" X 2 1/2" X 3/8" ANGLE 6.6

<u>PLAN</u>

NOTES:

1. OPTIONAL CONSTRUCTION JOINTS LABELED "CJ" MAY BE KEYED OR DOWELED AS PER THE TYPICAL DETAILS SHOWN HEREIN OR AS APPROVED BY THE ENGINEER.

DIMENSIONS						
PIPE SIZE	A	В	С	D	H (min)	
18"	2'-8"	3'-2"	2'-7 3/4"	3'-1 3/4"	2'-0"	
21"	2'-8"	3'-2"	2'-7 3/4"	3'-1 3/4"	2'-3"	
24"	2'-8"	3'-2"	2'-7 3/4"	3'-1 3/4"	2'-6"	
27"	3'-0"	3'-6"	2'-11 3/4"	3'-5 3/4"	2'-9"	
30"	3'-6"	4'-0"	3'-5 3/4"	3'-11 3/4"	3'-0"	
33"	3'-9"	4'-3"	3'-8 3/4"	4'-2 3/4"	3'-3"	
36"	4'-0"	4'-6"	3'-11 3/4"	4'-5 3/4"	3'-6"	
42"	4'-6"	5'-0"	4'-5 3/4"	4'-11 3/4"	4'-0"	
48"	5'-0"	5'-6"	4'-11 3/4"	5'-5 3/4"	4'-6"	

NOTE:

1. SQUARE INLET STRUCTURE SHOWN. SQUARE OR CIRCULAR STYLE MAY BE USED.

> TYPE B INLET NOT TO SCALE

MODIFIED TYPE G INLET WITH 2' X 2' INLET GRATE NOT TO SCALE

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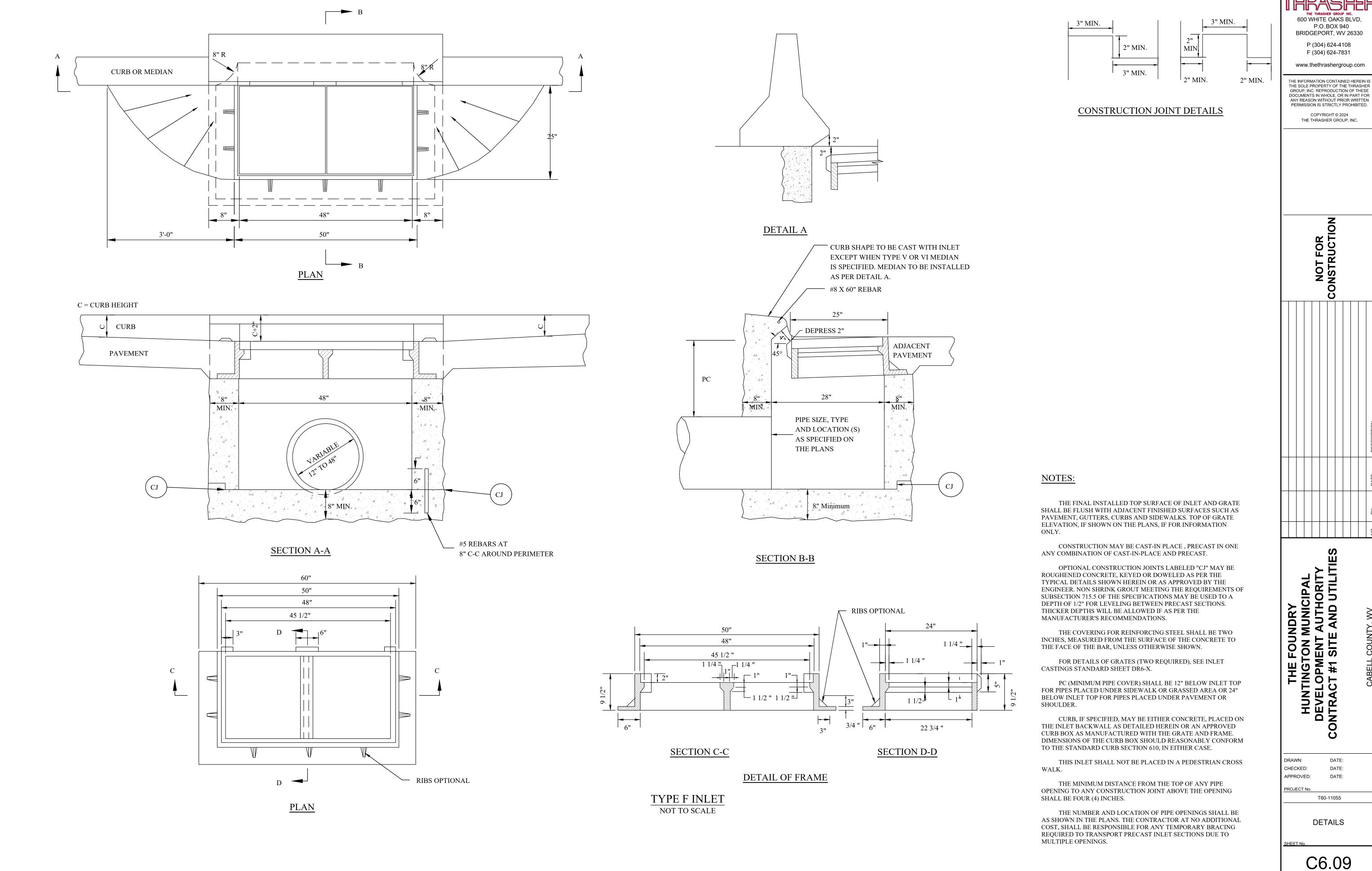
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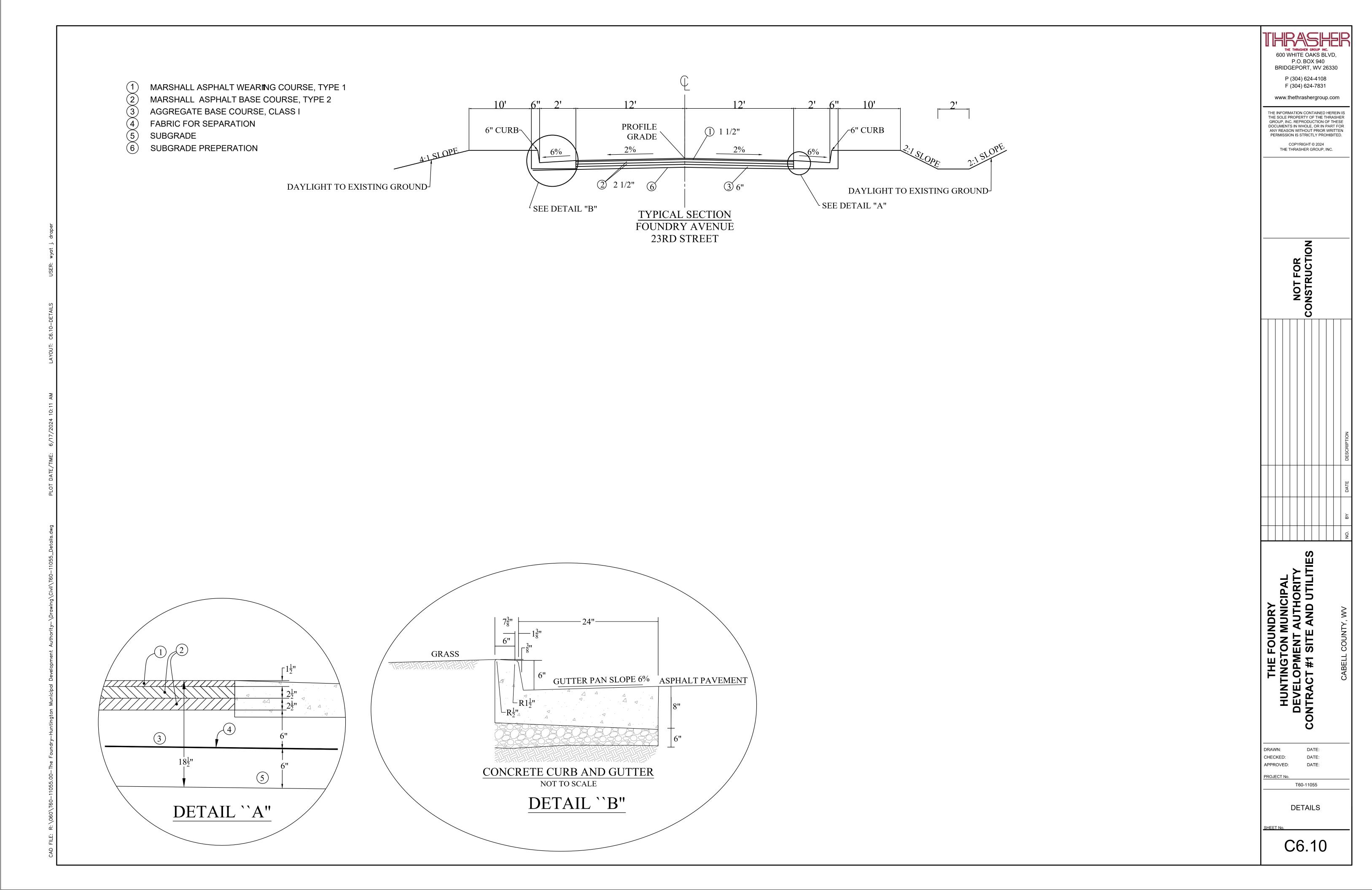
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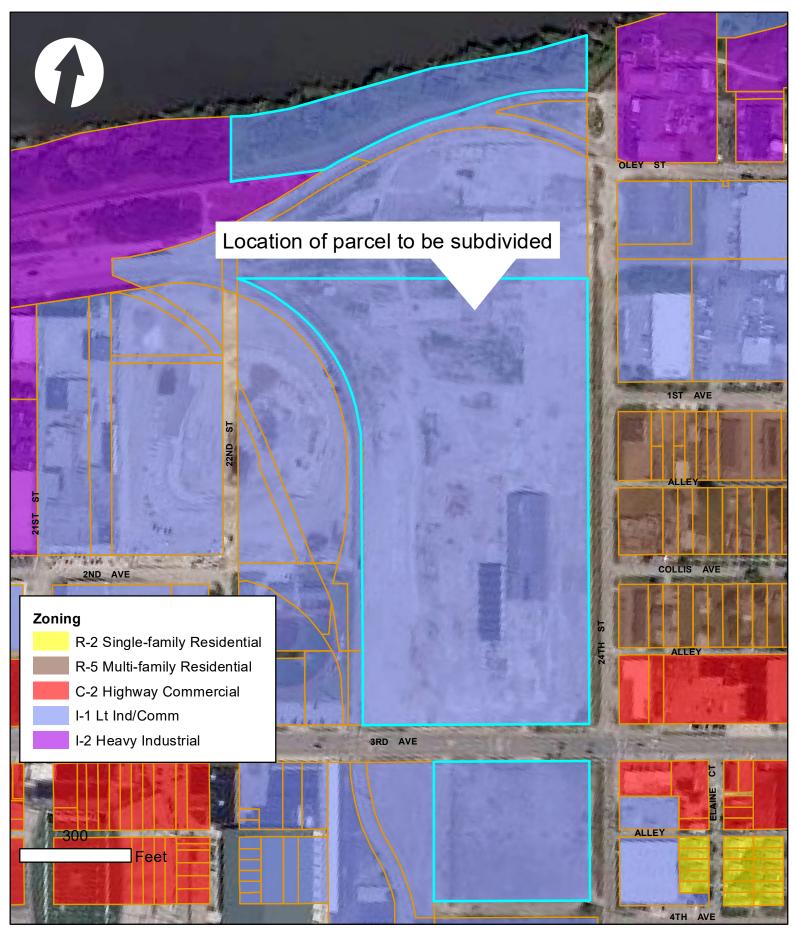






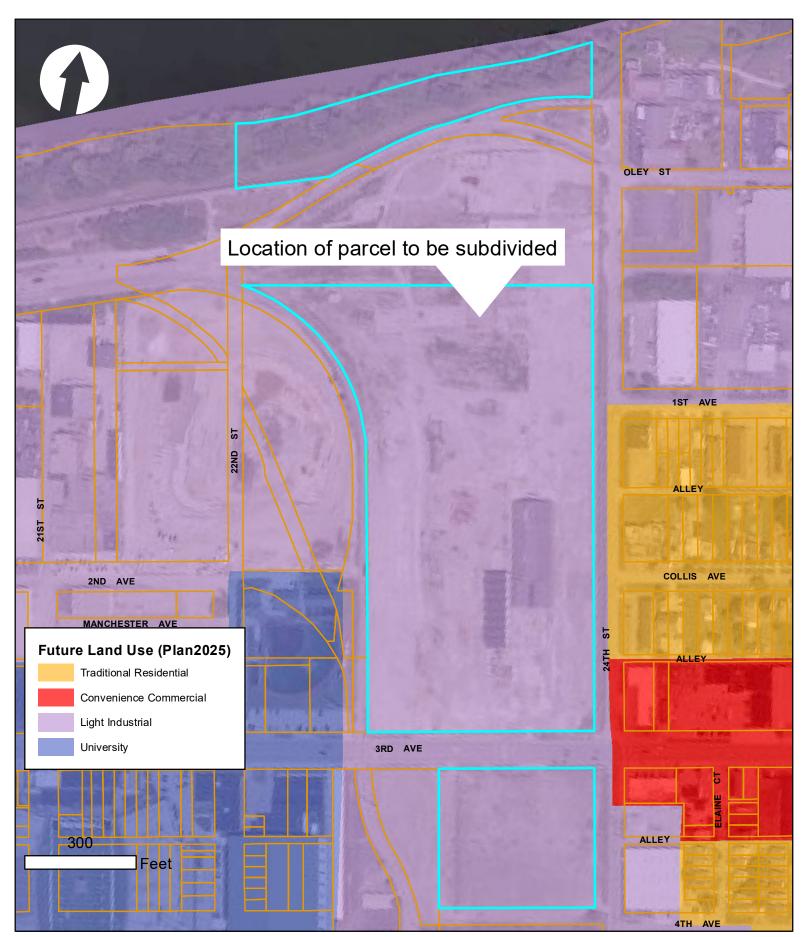
PC 24-05
Cabell Tax District 5, Map 10
Parcel 13
Parcel to be subdivided





PC 24-05 Cabell Tax District 5, Map 10 Parcel 13 Parcel to be subdivided





PC 24-05 Cabell Tax District 5, Map 10 Parcel 13 Parcel to be subdivided

