Miracle of Hickory Park
Modification

1515 12th Street Dr NW, Hickory, North Carolina 28601

Consultants

Landscape Architect

benesch

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HICKORY North Carolina
Life. Well Crafted.

76 North Center Street
Hickory, NC 28601
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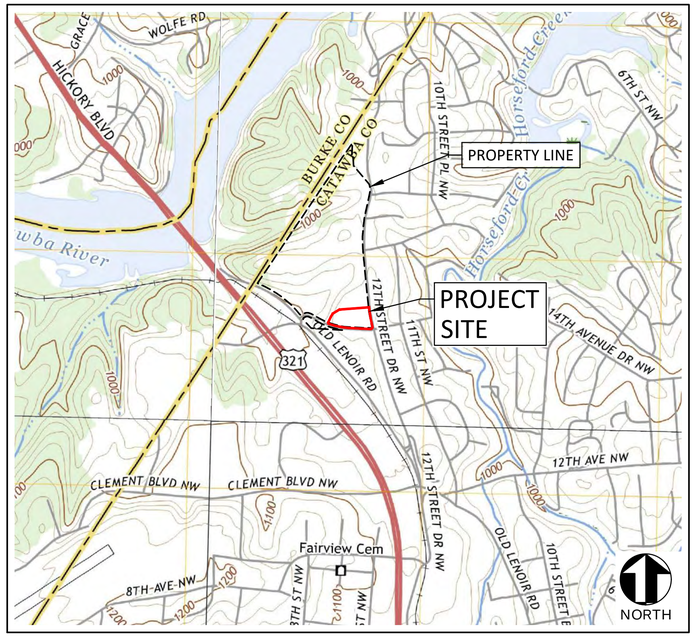

REFERENCE:
USGS 7.5-MINUTE TOPOGRAPHIC MAPS:
- BETHLEHEM, NC DATED 2022
- HICKORY, NC DATED 2022
- GRANITE FALLS, NC DATED 2022
- LONGVIEW, NC DATED 2022

Vicinity Map
SCALE: 1" = 1000'

1000 0 500 1000 2000
SCALE: 1"=1000'

Schedule of Drawings

SHEET NO.	TITLE
C000	COVER
BC1.0	PLATFORM APPENDIX B
BC1.1	RESTROOM APPENDIX B
A1.0	PLATFORM FLOOR PLAN FOUNDATION PLAN DETAILS
A1.1	RESTROOM FLOOR PLAN SCHEDULES
A2.0	RESTROOM SCHEDULES
A3.0	STAGE ELEVATIONS
A3.1	RESTROOM ELEVATIONS
S1	SURVEY
C100	EXISTING CONDITIONS AND DEMOLITION PLAN
C200	SITE PLAN
C300	EROSION AND SEDIMENT CONTROL NOTES
C301	EROSION AND SEDIMENT CONTROL PLAN
C302	GRADING AND DRAINAGE PLAN
C400	UTILITY PLAN
C500	DETAILS
C501	DETAILS
C502	DETAILS
P1	RESTROOM FLOOR PLAN PLUMBING, SPECIFICATIONS, SCHEDULES
E1	SPECIFICATIONS SCHEDULES APPENDIX B
E2	RESTROOM & STAGE FLOOR PLAN ELECTRICAL
E3	SITE PLAN ELECTRICAL

Revisions:

BID DOCUMENTS

Date of Issue: 07/17/2026 Set No.:

CBSA architects
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CBSA PROJECT NO. 2025.003

CBSA DESIGNS, INC. REGISTERED ARCHITECTURAL CORPORATION 51590 HICKORY, NC

MARTY ALLEN BEAL REGISTERED ARCHITECT 5409 NEWTON, NC

07/10/26

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2 - Family Dwellings and Townhouses)

Name of Project: MIRACLE OF HICKORY PARK MODIFICATIONS
Address: 1515 12TH STREET DR NW HICKORY, NORTH CAROLINA Zip Code 28601
Proposed Use: PLATFORM & SHELTER
Owner or Authorized Agent: JON WOOD / BENESCH Phone: 704-943-3185 Email jwood@benesch.com
Owned By: ■ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ■ City HICKORY ■ County CATAWBA ☐ State

CONTACT MARTY BEAL / CBSA ARCHITECTS

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	CBSA ARCHITECTS	MARTY A. BEAL	5409	828-322-3403	mbeal@cbsa-architects.com
Civil	BENESCH	MORGAN R. WOOLNER	53444	704-943-3172	mwoolner@benesch.com
Electrical	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Fire Alarm					
Plumbing	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Mechanical	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Sprinkler-Standpipe					
Structural	SEE PRECAST CONCRETE SHOP DRAWINGS				
Retaining Wall >5' High					
Pool Design					

2018 NC BUILDING CODE: ■ New Building ☐ Shell / Core ☐ 1st Time Interior Completions ☐ Addition ☐ Phased Construction - Shell Core

2018 NC EXISTING BUILDING CODE: (check all that apply) ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Historic Property ☐ Change of Use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY(S) (CH. 3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY(S) (CH. 3) --
OCCUPANCY CATEGORY (Table 1604.5): Current: _____ Proposed: --

BASIC BUILDING DATA:
Construction Type: (check all that apply) ☐ I-A ☐ I-B ☐ II-A ■ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
Sprinklers ■ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ■ No ☐ Yes Flood Hazard Area: ■ No ☐ Yes
Special Inspections Required: ■ No ☐ Yes

GROSS BUILDING AREA TABLE

Floor	Existing (SQ FT)	New (SQ FT)	Sub-Total
Covered Porches	--	--	--
2nd Floor	--	--	--
1st Floor	--	424	424
Basement	--	--	--
TOTAL	--	424	424

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ■ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-1 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ■ S-2 Low ☐ High Piled ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): --
Incidental Uses (Table 509): --
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): --
Special Provisions (Chapter 5 - List Code Sections): --
Mixed Occupancy: ☐ No ■ Yes Separation: 0 Hr. Exception: 508.3.3

$$\frac{\text{Actual Area of Occupancy - A2}}{\text{Allowable Area of Occupancy - A2}} + \frac{\text{Actual Area of Occupancy - R1}}{\text{Allowable Area of Occupancy - R1}} + \frac{\text{Actual Area of Occupancy - A3}}{\text{Allowable Area of Occupancy - A3}} \leq 1$$

_____ + _____ + _____ = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) ALLOWABLE AREA OR UNLIMITED[2]
1	PLATFORM	424	UL	N/A	UL

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with 406.5.4. The maximum area of the air traffic control towers must comply with 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	UL	9'-8"	--
Building Height in Stories (Table 504.4)	UL	1	--

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ ____ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses							
Bearing walls							
Exterior							
North	>30'	0	0	--	--	--	--
East	>30'	0	0	--	--	--	--
West	>30'	0	0	--	--	--	--
South	>30'	0	0	--	--	--	--
Interior		0	0				
Nonbearing walls and partitions							
Exterior							
North	>30'	--	NA	--	--	--	--
East	>30'	--	NA	--	--	--	--
West	>30'	--	NA	--	--	--	--
South	>30'	--	NA	--	--	--	--
Interior walls and partitions		--	NA				
Floor construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		NA					
Columns Supporting Floors		NA					
Roof construction Including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		NA					
Shaft Enclosures- Exit		NA					
Shaft Enclosures- Other		NA					
Corridor Separation		NA					
Occupancy / Fire Barrier Separation		NA					
Party / Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Tenant / Dwelling Unit / Sleeping Unit Separation		NA					
Incidental Use Separation		NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

NA

Fire Separation Distance (Feet) From Property Lines	Degree of Openings Protection (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)
--	--	--	--
--	--	--	--

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ■ Yes ☐ No
Exit Signs: ☐ Yes ■ No
Fire Alarm: ☐ Yes ■ No
Smoke Detection Systems: ☐ Yes ■ No
Carbon Monoxide Protection: ☐ Yes ■ No

LIFE SAFETY PLAN REQUIREMENTS

Life safety Plan Sheet # A1.0

☐ Fire and / or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Occupants loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2)
☐ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A seperate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	-	9	2	0	2	4
	-	-	-	-	-	-
TOTAL	-	9	2	0	2	4

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
EXSTG	0	0	0	0	0	0	0	0	0	0
NEW	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
REQ'D	0	0	0	0	0	0	0	0	0	0

SEE MANUFACTURER'S SHOP DRAWINGS

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: _____

Climate Zone: ☐ 3 ■ 4 ☐ 5

Method of Compliance:
☐ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Skylights in each assembly: NA
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Openings (windows or doors with glazing)
U-Value of assembly: NA
Solar heat gain coefficient: NA
projection factor: NA
Door R-Values: NA

Walls below grade (each assembly)
Description of assembly: NA
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: NA
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Horizontal/vertical requirement: NA
Slab heated: NA

SEE MANUFACTURER'S SHOP DRAWINGS

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (I_W) --
Snow (I_S) --
Seismic (I_E) --

Live Loads: Roof -- psf
Mezzanine -- psf
Floor -- psf

Ground Snow Loads: -- psf

Wind Loads: Basic Wind Speed -- mph (ASCE-7)
Exposure Category --
Wind Base Shear (For MWRFS) Vx -- Vy --

SEISMIC DESIGN CATEGORY ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_S -- %g S_1 -- %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic structural system (check one)
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Siesmic bBase Shear Vx -- Vy --

Analysis Procedure ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity -- psf
Pile size, type, and capacity _____

SEE MANUFACTURER'S SHOP DRAWINGS

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler
Size category. If oversized, state reason: _____

Chiller
Size category. If oversized, state reason: _____

List equipment efficiencies: _____

SEE MANUFACTURER'S SHOP DRAWINGS

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting Schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs allowed (whole building or space by space)
total exterior wattage specified vs allowed

Additional Prescriptive Compliance
☐ 506.2.1 More Efficient Mechanical equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy recovery Ventilation systems
☐ 506.2.4 Higher efficiency Service water Heating
☐ 506.2.5 On-Site Supply of Renewable energy
☐ 506.2.6 Automatic Daylighting Control Systems

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Seals:

Corp. NC license: F-1320

Miracle of Hickory Park Modifications
1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:
PLATFORM
APPENDIX B

Sheet No:
BC1.0

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2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2 - Family Dwellings and Townhouses)

Name of Project: MIRACLE OF HICKORY PARK MODIFICATIONS
Address: 1515 12TH STREET DR NW HICKORY, NORTH CAROLINA Zip Code 28601
Proposed Use: PARK & RESTROOM
Owner or Authorized Agent: JON WOOD / BENESCH Phone: 704-943-3185 Email jwood@benesch.com
Owned By: ■ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ■ City HICKORY ■ County CATAWBA ☐ State

CONTACT MARTY BEAL / CBSA ARCHITECTS

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	CBSA ARCHITECTS	MARTY A. BEAL	5409	828-322-3403	mbeal@cbsa-architects.com
Civil	BENESCH	MORGAN R. WOOLNER	53444	704-943-3172	mwoolner@benesch.com
Electrical	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Fire Alarm					
Plumbing	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Mechanical	BRITTAIN ENGINEERING	DON BRITTAIN	7883	828 328-1813	dbrittain@brittainengineering.com
Sprinkler-Standpipe					
Structural	SEE PRECAST CONCRETE SHOP DRAWINGS				
Retaining Wall >5' High					
Pool Design					

2018 NC BUILDING CODE: ■ New Building ☐ Shell / Core ☐ 1st Time Interior Completions
☐ Addition ☐ Phased Construction - Shell Core

2018 NC EXISTING BUILDING CODE: (check all that apply) ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Historic Property ☐ Change of Use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY(S) (CH. 3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY(S) (CH. 3) --
OCCUPANCY CATEGORY (Table 1604.5): Current: _____ Proposed: --

BASIC BUILDING DATA:
Construction Type: (check all that apply) ☐ I-A ☐ I-B ■ II-A ■ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
Sprinklers ■ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ■ No ☐ Yes Flood Hazard Area: ■ No ☐ Yes
Special Inspections Required: ■ No ☐ Yes

GROSS BUILDING AREA TABLE

Floor	Existing (SQ FT)	New (SQ FT)	Sub-Total
Covered Porches	--	--	--
2nd Floor	--	--	--
1st Floor	--	130	130
Basement	--	--	--
TOTAL	--	130	130

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ■ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-1 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ■ S-2 Low ☐ High Piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): --
Incidental Uses (Table 509): --
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): --
Special Provisions (Chapter 5 - List Code Sections): --
Mixed Occupancy: ☐ No ■ Yes Separation: 0 Hr. Exception: 508.3.3

$$\frac{\text{Actual Area of Occupancy - A2}}{\text{Allowable Area of Occupancy - A2}} + \frac{\text{Actual Area of Occupancy - R1}}{\text{Allowable Area of Occupancy - R1}} + \frac{\text{Actual Area of Occupancy - A3}}{\text{Allowable Area of Occupancy - A3}} \leq 1$$

_____ + _____ + _____ = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE	(D) ALLOWABLE AREA OR UNLIMITED
1	RESTROOM	130	26,000	N/A	26,000

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)

[2] Unlimited area applicable under conditions of Section 507.

[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

[4] The maximum area of open parking garages must comply with 406.5.4. The maximum area of the air traffic control towers must comply with 412.3.1.

[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	UL	9'-8"	--
Building Height in Stories (Table 504.4)	UL	1	--

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ _____ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses							
Bearing walls							
Exterior							
North	>30'	0	0	--	--	--	--
East	>30'	0	0	--	--	--	--
West	>30'	0	0	--	--	--	--
South	>30'	0	0	--	--	--	--
Interior		0	0				
Nonbearing walls and partitions							
Exterior							
North	>30'	--	NA	--	--	--	--
East	>30'	--	NA	--	--	--	--
West	>30'	--	NA	--	--	--	--
South	>30'	--	NA	--	--	--	--
Interior walls and partitions		--	NA				
Floor construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		NA					
Columns Supporting Floors		NA					
Roof construction Including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		NA					
Shaft Enclosures- Exit		NA					
Shaft Enclosures- Other		NA					
Corridor Separation		NA					
Occupancy / Fire Barrier Separation		NA					
Party / Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Tenant / Dwelling Unit / Sleeping Unit Separation		NA					
Incidental Use Separation		NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

NA

Fire Separation Distance (Feet) From Property Lines	Degree of Openings Protection (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)
--	--	--	--
--	--	--	--

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ■ Yes ☐ No
Exit Signs: ☐ Yes ■ No
Fire Alarm: ☐ Yes ■ No
Smoke Detection Systems: ☐ Yes ■ No
Carbon Monoxide Protection: ☐ Yes ■ No

LIFE SAFETY PLAN REQUIREMENTS

Life safety Plan Sheet # --

☐ Fire and / or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupants loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2)
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A seperate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 9' ACCESS AISLE	VAN SPACES WITH 132' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	-	9	2	0	2	4
	-	-	-	-	-	-
TOTAL	-	9	2	0	2	4

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
EXSTG		0	0	0	0	0	0	0	0	0	0
NEW		0	0	2	0	0	0	2	0	0	0
TOTAL		0	0	2	0	0	0	2	0	0	0
REQ'D		0	0	2	0	0	0	2	0	0	0

SEE MANUFACTURER'S SHOP DRAWINGS

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: _____
Climate Zone: ☐ 3 ■ 4 ☐ 5
Method of Compliance:
☐ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE
Roof/ceiling Assembly (each assembly)
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Skylights in each assembly: NA
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Openings (windows or doors with glazing)
U-Value of assembly: NA
Solar heat gain coefficient: NA
projection factor: NA
Door R-Values: NA

Walls below grade (each assembly)
Description of assembly: NA
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: NA
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: SEE SHOP DRAWING DETAILS
U-Value of total assembly: U-0.0
R-Value of insulation: R-0.0
Horizontal/vertical requirement: NA
Slab heated: NA

STRUCTURAL DESIGN

DESIGN LOADS: SEE MANUFACTURER'S SHOP DRAWINGS

Importance Factors: Wind (I_W) --
Snow (I_S) --
Seismic (I_E) --

Live Loads: Roof -- psf
Mezzanine -- psf
Floor -- psf

Ground Snow Loads: -- psf

Wind Loads: Basic Wind Speed -- mph (ASCE-7)
Exposure Category --
Wind Base Shear (For MWRFS) Vx -- Vy --

SEISMIC DESIGN CATEGORY ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_S --%g S_1 --%g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic structural system (check one)
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Siesmic bBase Shear Vx -- Vy --

Analysis Procedure ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity -- psf
Pile size, type, and capacity _____

SEE MANUFACTURER'S SHOP DRAWINGS

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler
Size category. If oversized, state reason: _____

Chiller
Size category. If oversized, state reason: _____

List equipment efficiencies: _____

SEE MANUFACTURER'S SHOP DRAWINGS

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting Schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs allowed (whole building or space by space)
total exterior wattage specified vs allowed

Additional Prescriptive Compliance
☐ 506.2.1 More Efficient Mechanical equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy recovery Ventilation systems
☐ 506.2.4 Higher efficiency Service water Heating
☐ 506.2.5 On-Site Supply of Renewable energy
☐ 506.2.6 Automatic Daylighting Control Systems

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Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:
RESTROOM APPENDIX B

Sheet No:
BC1.1

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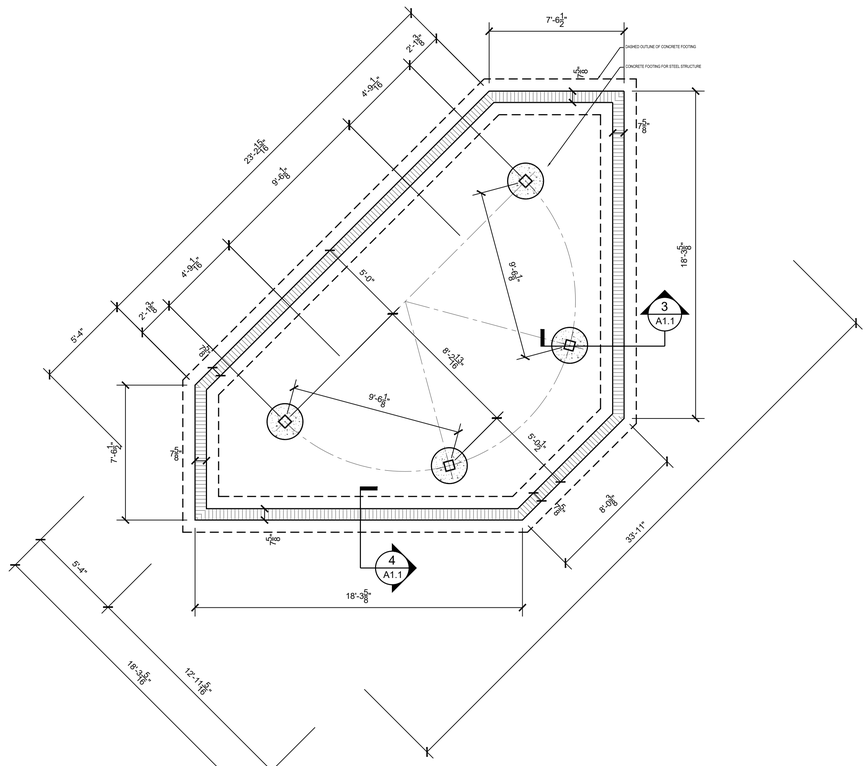
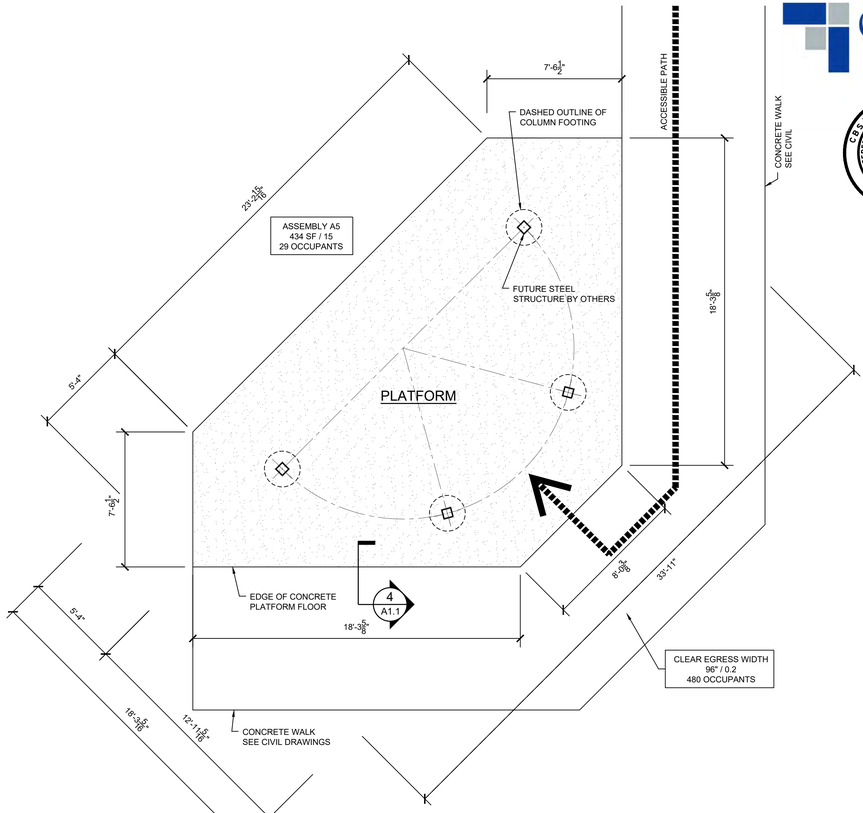


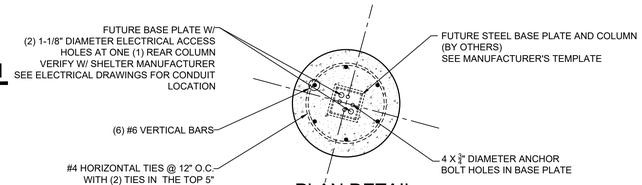
2 PLATFORM FOUNDATION PLAN
A1.1 SCALE: 1/4" = 1'-0"



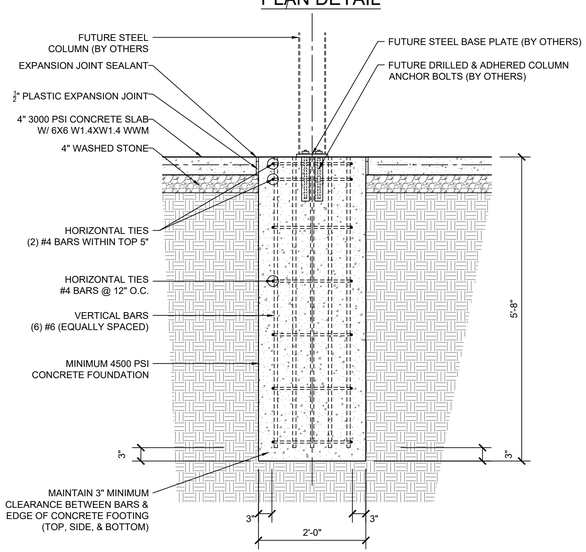
1 PLATFORM FLOOR PLAN
A1.1 SCALE: 1/4" = 1'-0"

FUTURE ANCHOR BOLT NOTES:

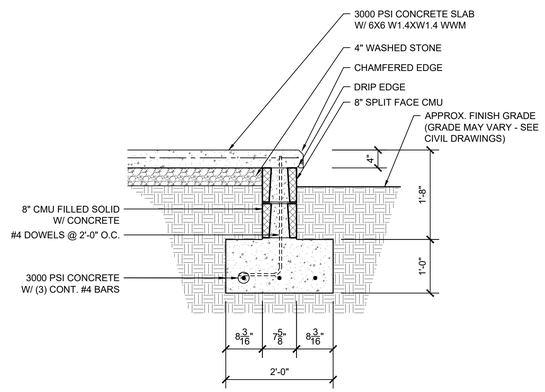
1. ANCHOR BOLTS SHALL BE INSTALLED IN FUTURE AND NOT PART OF THIS CONTRACT. FUTURE ANCHOR BOLTS TO BE DRILLED AND ADHERED INTO PLACE.
2. FUTURE ANCHOR BOLTS (BY OTHERS) TO BE EQUAL TO "HILTI" HIT-HY 200 (A OR R) V3 ADHESIVE WITH ½" HAS-E ROD WITH 6" EFFECTIVE EMBEDMENT.



PLAN DETAIL



3 COLUMN FOOTING DETAIL
A1.1 SCALE: 3/4" = 1'-0"



4 STAGE WALL DETAIL
A1.1 SCALE: 3/4" = 1'-0"

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Miracle of Hickory Park Modifications

1515 12th Street Dr NW
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Project no: 1726.500007.00
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Sheet Title:
PLATFORM FLOOR PLAN
FOUNDATION PLAN

DETAILS

Sheet No:
A1.0

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DOOR, FRAME AND HARDWARE SCHEDULE

DOOR LEGEND:

TIG	TEMPERED INSULATED GLASS
TG	TEMPERED GLASS
PR	PAIR
HM	HOLLOW METAL - INSULATED
SCWD	SOLID CORE WOOD DOOR
DE	DOUBLE EGRESS
CG	CERAMIC FIRE RATED GLASS
EX	EXISTING
CO	CASED OPENING
HCWD	HOLLOW CORE WOOD DOOR
HCMD	HOLLOW CORE MOLDED DOOR

HARDWARE LEGEND:

ET	ENTRANCE
OFF	OFFICE
ST	STORAGE
PV	PRIVACY
CR	CLASSROOM
PA	PASSAGE
ED	RIM TYPE EXIT DEVICE
WD	WOOD DOOR

DOOR NOTES:

① GALVANIZED
② --

FRAME NOTES:

① GALVANIZED
② --

HARDWARE NOTES:

① POWER THROUGH MIDDLE HINGE
② --

HARDWARE:

OPENING				DOORS			FRAMES					LOCK TYPE: M = MORTISE C = CYLINDRICAL ★ = REFERENCE MFG	RIM EXIT DEVICE EXTERIOR LEVER LOCKSET	EXIT DEVICE - RIM & EXTERIOR PULL	EXIT DEVICE RIM - EXIT ONLY	LOCK FUNCTION	PUSH / PULL	ELECTRONIC MORTISE GRADE 1 LOCK W/ TIMER	CLOSE W/ HOLD OPEN	SPRING HINGE	KICK-PLATE	DEADBOLT W/ INTERCHANGEABLE CORE	RECESSED DUST PROOF STRIKE	BC = BY CLOSER W = WALL OH = OVERHEAD STOP:	ASTRAGAL	WEATHER SEAL - ALL SIDES	THRESHOLD	RAIN DRIP EDGE	SMOKE & DRAFT CONTROL SEAL IN ACCORDANCE WITH NFPA 105	ACCESSIBILITY /SIGNAGE	NOTES	NUMBER
NUMBER	LABEL	TYPE	MATERIAL	SIZE	GLASS	NOTES	TYPE	MATERIAL	JAMB	HEAD	NOTES																				
100	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	ST	--		--	●	--	●	--	BC	--	●	●	--	--	●	①	100
101	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	CR	--	●	--	●	--	●	--	BC	--	●	●	--	--	●	①	101
102	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	CR	--	●	--	●	--	●	--	BC	--	●	●	--	--	●	①	102

GENERAL NOTES:

①
②
③
④

FINISH ROOM SCHEDULE

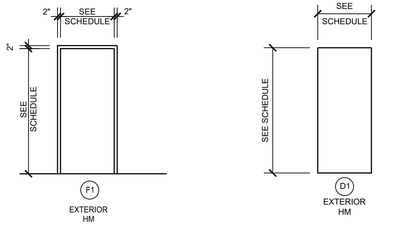
ABBREVIATIONS

ACT 1	2' X 2' ACOUSTICAL TILE	CLR CONC	COLORED CONCRETE	MRGB	MOIST. & MOLD RESIST. GYP. BD.	RUBB	RUBBER - 4" COVED BASE	WD	WOOD
ACT 2	2' X 2' ACOUSTICAL TILE	EP	EPOXY PAINT	MAT	WALK - OFF MAT	S	SEALED	MWP	METAL WALL PANEL
BB	BEAD BOARD	EPF	EPOXY FLOOR	MT	MARBLE TILE	ST	CRUSHED STONE		
CPT #1	CARPET - ROLL	EXT	EXISTING	P	PAINT	STL STRUC	STEEL STRUCTURE		
CPT #2	CARPET - MODULAR TILE	EXP	EXPOSED	PL LAM	PLASTIC LAMINATE	TERR	TERRAZZO		
CT	CERAMIC TILE	EXT - BRK	EXISTING BRICK	PLST	PLASTER	TP	TEXTURED PAINT		
CT - S	CERAMIC TILE (SPECIAL SHAPE)	EXT - MAS	EXISTING MASONRY WALLS	POR T	PORCELAIN TILE	VWC	VINYL WALL COVERING		
CONC	CONCRETE - SEALED	GB	GYPSUM BOARD	PLWD	PLYWOOD	VCT	VINYL COMPOSITION TILE		
CMU	CONCRETE MASONRY	LVP	LUXURY VINYL PLANK	RSV	RESILIENT SHEET VINYL	WC - (type)	WALL COVERING		

		FLOORS		WALLS				CEILING		NOTES	
NO.	SPACE	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	MATERIAL	HEIGHT		NO.
	STORAGE	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		100
	RESTROOM 1	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		101
	RESTROOM 2	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		102

GENERAL NOTES:

INTERIOR WALLS TO BE FINISHED WHITE AND GRAY FLOOR.
EXTERIOR ROCK WAINSCOT TO BE FINISHED NATURAL HONEY AND GREEN ROOF.



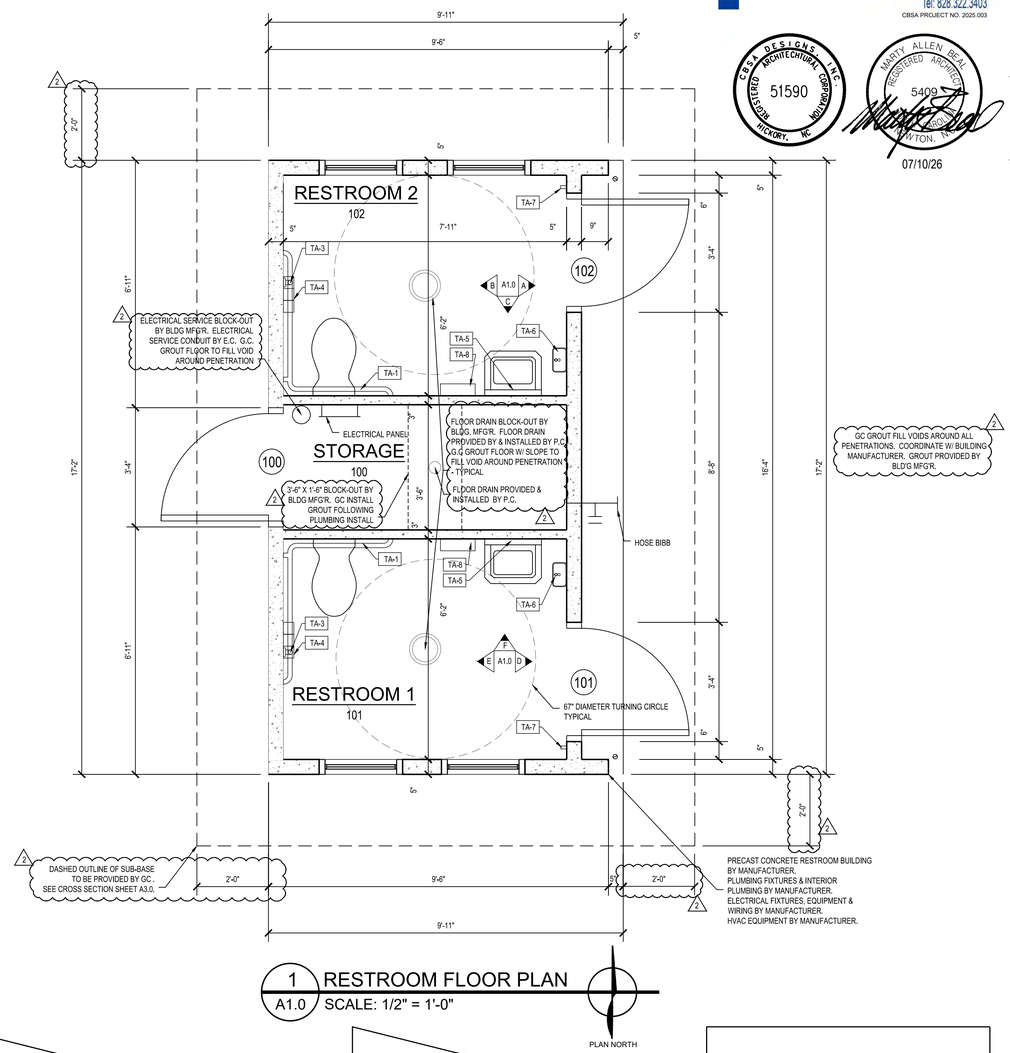
FRAME TYPES
NOT TO SCALE

DOOR TYPES
NOT TO SCALE

TOILET ACCESSORY SCHEDULE

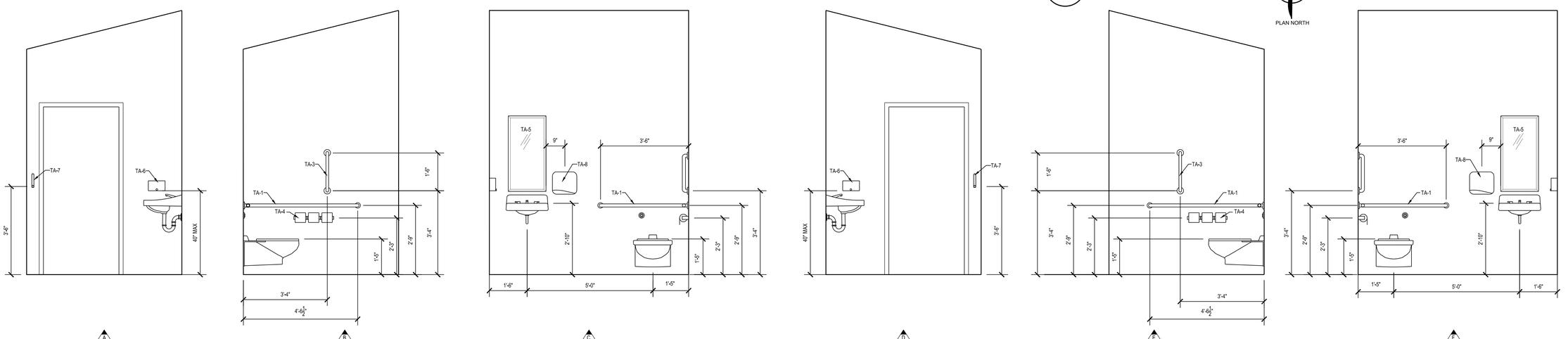
MARK	DESCRIPTION
TA-1	TWO-WALL HORIZONTAL GRAB BAR (42" X 54-1/2")
TA-2	NOT USED
TA-3	VERTICAL GRAB BAR (18")
TA-4	SURFACE MOUNT TOILET PAPER DISPENSER (3-ROLL)
TA-5	MIRROR
TA-6	SURFACE MOUNT SOAP DISPENSER
TA-7	SURFACE MOUNT COAT HOOK
TA-8	SURFACE MOUNT HAND DRYER (ELECTRIC)

NOTES:
1. TOILET ACCESSORIES ARE TO BE PROVIDED AND INSTALLED BY THE PRECAST CONCRETE RESTROOM MANUFACTURER.
2. SEE ELEVATIONS FOR TYPICAL MOUNTING HEIGHTS.



1 RESTROOM FLOOR PLAN
A1.0 SCALE: 1/2" = 1'-0"

PLAN NORTH



2 INTERIOR ELEVATIONS
A1.0 SCALE: 1/2" = 1'-0"

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1515 12th Street Dr NW
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Project no: 1726.500007.00
Date: 07.10.26
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2 ADDENDUM NO. 2 09.18.26

Sheet Title:
RESTROOM FLOOR PLAN SCHEDULES

Sheet No:
A1.1

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Sheet Title:

RESTROOM SCHEDULES

Sheet No:

A2.0

DOOR, FRAME AND HARDWARE SCHEDULE

DOOR LEGEND:

TIG	TEMPERED INSULATED GLASS
TG	TEMPERED GLASS
PR	PAIR
HM	HOLLOW METAL - INSULATED
SCWD	SOLID CORE WOOD DOOR
DE	DOUBLE EGRESS
CG	CERAMIC FIRE RATED GLASS
EX	EXISTING
CO	CASED OPENING
HCWD	HOLLOW CORE WOOD DOOR
HCMD	HOLLOW CORE MOLDED DOOR

HARDWARE LEGEND:

ET	ENTRANCE
OFF	OFFICE
ST	STORAGE
PV	PRIVACY
CR	CLASSROOM
PA	PASSAGE
ED	RIM TYPE EXIT DEVICE
WD	WOOD DOOR

DOOR NOTES:

① GALVANIZED
② --

FRAME NOTES:

① GALVANIZED
② --

HARDWARE NOTES:

① POWER THROUGH MIDDLE HINGE
② --

OPENING		DOORS					FRAMES				
NUMBER	LABEL	TYPE	MATERIAL	SIZE	GLASS	NOTES	TYPE	MATERIAL	JAMB	HEAD	NOTES
100	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①
101	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①
102	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①

HARDWARE:

NUMBER	LOCK TYPE: (M = MORTISE, C = CYLINDRICAL, * = CYLINDER BY HARDWARE MFG)	RIM EXIT DEVICE EXTERIOR LEVER LOCKSET	EXIT DEVICE - RIM & EXTERIOR PULL	EXIT DEVICE RIM - EXIT ONLY	LOCK FUNCTION	PUSH / PULL	ELECTRONIC MORTISE GRADE 1 LOCK W/ TIMER	CLOSE W/ HOLD OPEN	SPRING HINGE	KICKPLATE	DEADBOLT W/ INTERCHANGEABLE CORE	RECESSED DUST PROOF STRIKE	STOP: (BC = BY CLOSER, W = WALL, OH = OVERHEAD)	ASTRAGAL	WEATHER SEAL - ALL SIDES	THRESHOLD	RAIN DRIP EDGE	SMOKE & DRAFT CONTROL SEAL IN ACCORDANCE W/ NCBC 716.5.3.1	ACCESSIBILITY SIGNAGE	NOTES	NUMBER
100	M	--	--	--	ST	--	--	--	●	--	●	--	BC	--	●	●	--	--	--		100
101	M	--	--	--	CR	--	●	--	●	--	●	--	BC	--	●	●	--	--	●	①	101
102	M	--	--	--	CR	--	●	--	●	--	●	--	BC	--	●	●	--	--	●	①	102

GENERAL NOTES:

①
②
③
④

FINISH ROOM SCHEDULE

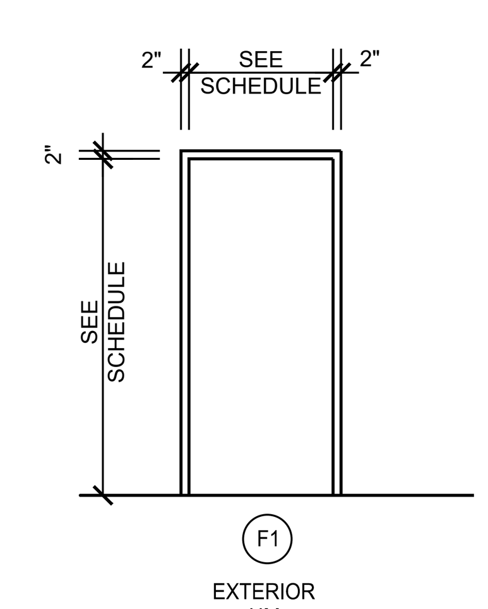
ABBREVIATIONS

ACT 1	2' X 2' ACOUSTICAL TILE
ACT 2	2' X 2' ACOUSTICAL TILE
BB	BEAD BOARD
CPT #1	CARPET - ROLL
CPT #2	CARPET - MODULAR TILE
CT	CERAMIC TILE
CT - S	CERAMIC TILE (SPECIAL SHAPE)
CONC	CONCRETE - SEALED
CMU	CONCRETE MASONRY
CLR CONC	COLORED CONCRETE
EP	EPOXY PAINT
EPF	EPOXY FLOOR
EXT	EXISTING
EXP	EXPOSED
EXT - BRK	EXISTING BRICK
EXT - MAS	EXISTING MASONRY WALLS
GB	GYPSUM BOARD
LVP	LUXURY VINYL PLANK
MRGB	MOIST. & MOLD RESIST. GYP. BD.
MAT	WALK - OFF MAT
MT	MARBLE TILE
P	PAINT
PL LAM	PLASTIC LAMINATE
PLST	PLASTER
POR T	PORCELAIN TILE
PLWD	PLYWOOD
RSV	RESILIENT SHEET VINYL
RUBB	RUBBER - 4" COVED BASE
S	SEALED
ST	CRUSHED STONE
STL STRUC	STEEL STRUCTURE
TERR	TERRAZZO
TP	TEXTURED PAINT
VWC	VINYL WALL COVERING
VCT	VINYL COMPOSITION TILE
WC - (type)	WALL COVERING
WD	WOOD
MWP	METAL WALL PANEL

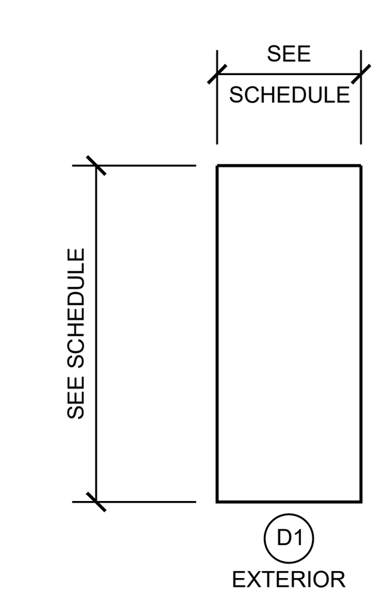
		FLOORS		WALLS				CEILING		NOTES	
NO.	SPACE	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	MATERIAL	HEIGHT		NO.
	STORAGE	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		100
	RESTROOM 1	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		101
	RESTROOM 2	CONC	--	CONC	CONC	CONC	CONC	CONC	VARIES		102

GENERAL NOTES:

INTERIOR WALLS TO BE FINISHED WHITE AND GRAY FLOOR.
EXTERIOR ROCK WAINSCOT TO BE FINISHED NATURAL HONEY AND GREEN ROOF.



FRAME TYPES
NOT TO SCALE



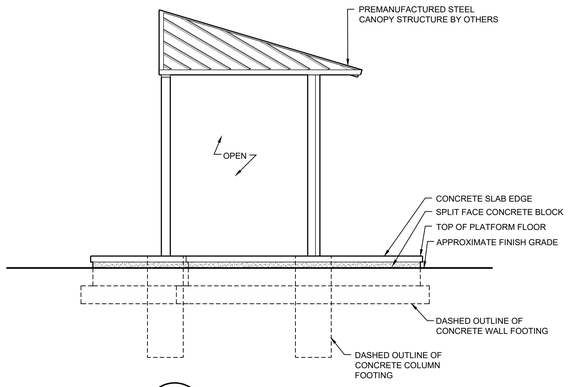
DOOR TYPES
NOT TO SCALE

CBSA architects
P. O. Box 1239 | Hickory, NC 28603
Tel: 828.322.3403
CBSA PROJECT NO. 2025.003

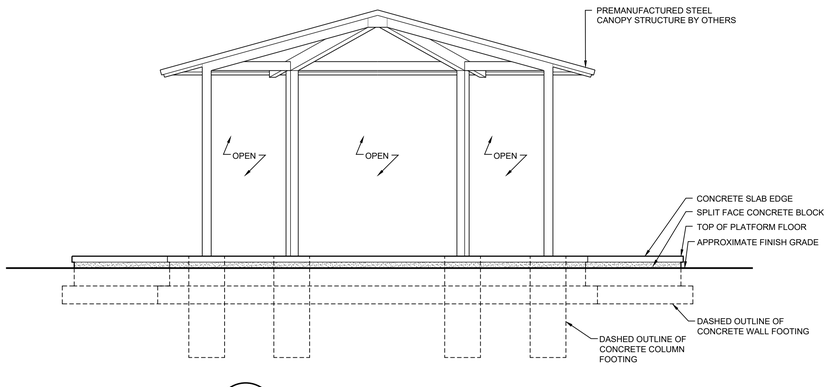
CBSA DESIGNS, INC. REGISTERED ARCHITECTURAL CORPORATION 51590 HICKORY, NC

MARTY ALLEN BEAM REGISTERED ARCHITECT 5409 NEWTON, NC

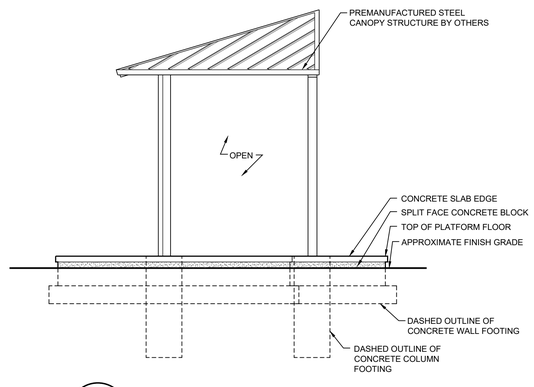
07/10/26



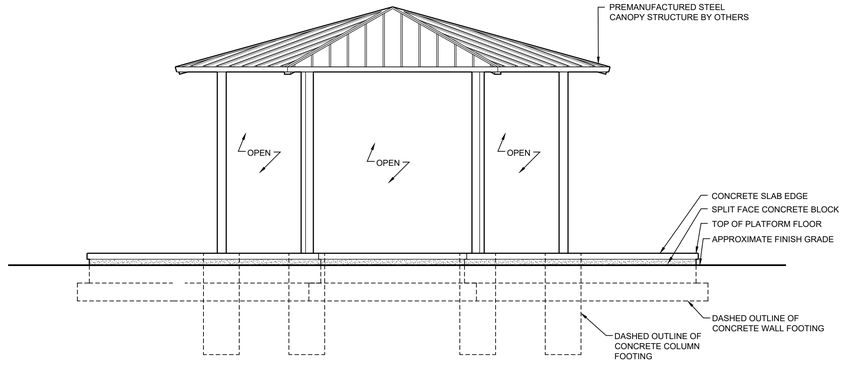
1 / A1.2 LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 / A1.2 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



3 / A1.2 RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



4 / A1.2 REAR ELEVATION
SCALE: 1/4" = 1'-0"

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Charlotte, NC 28208
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P 704.521.9880

Seals:

Corp. NC license: F-1320

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:
STAGE ELEVATIONS

Sheet No:
A3.0

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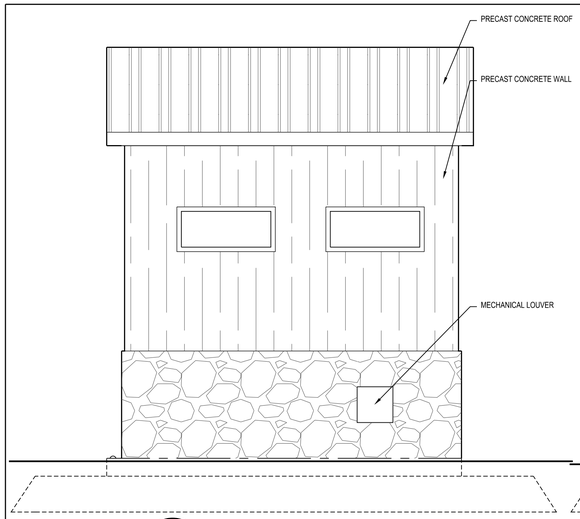
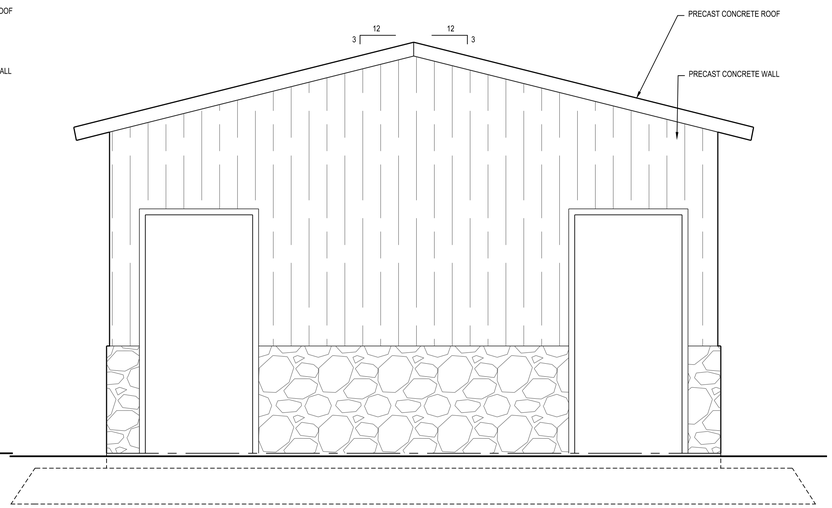
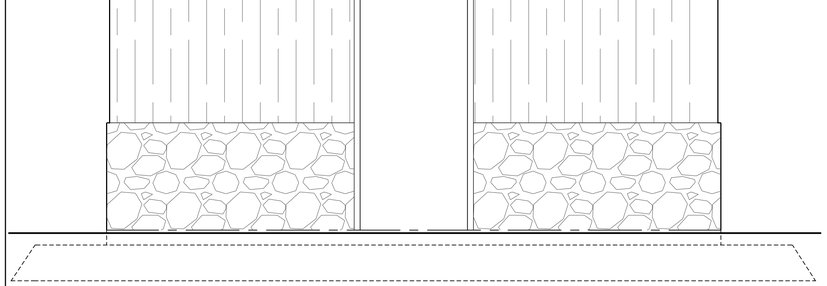


1 LEFT SIDE ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



2 FRONT ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



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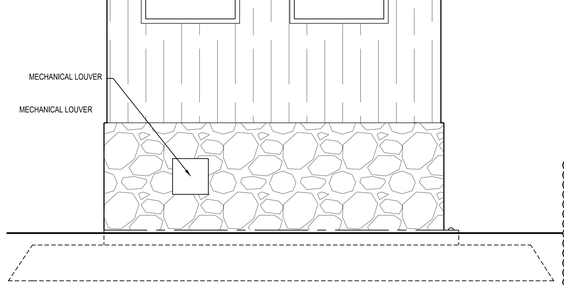
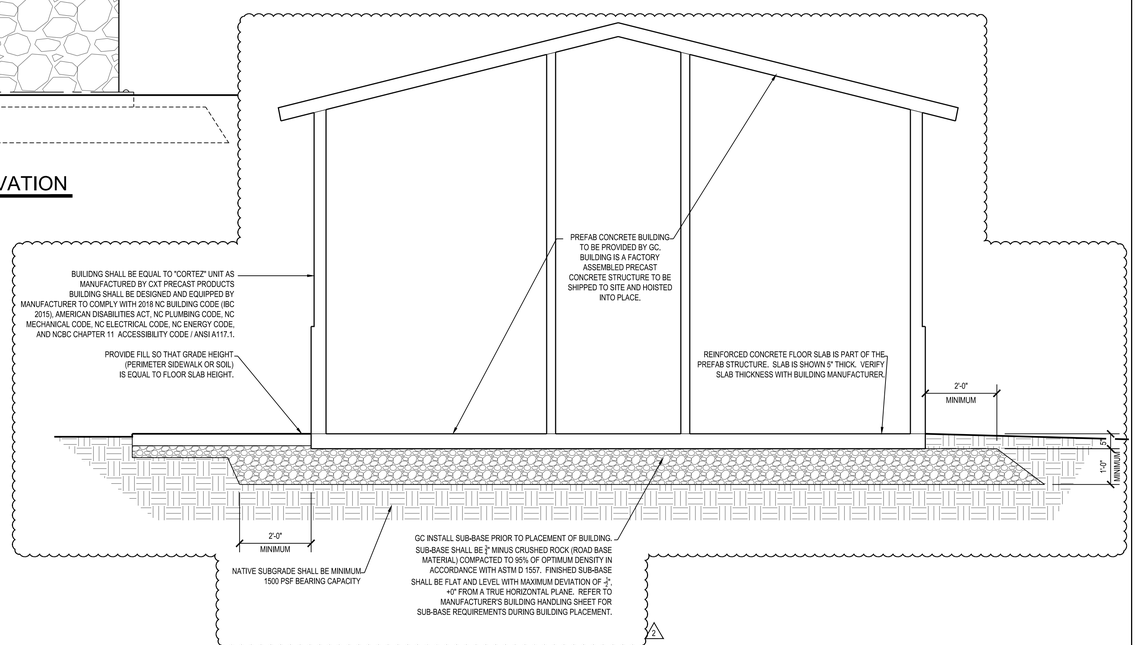
A3.0 SCALE: 1/2" = 1'-0"



4 RIGHT SIDE ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



5 CROSS ELEVATION
A3.0 SCALE: 1/2" = 1'-0"

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07/10/26

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Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:
2 ADDENDUM NO. 1 09.18.26

Sheet Title:
RESTROOM ELEVATIONS

Sheet No:
A3.1

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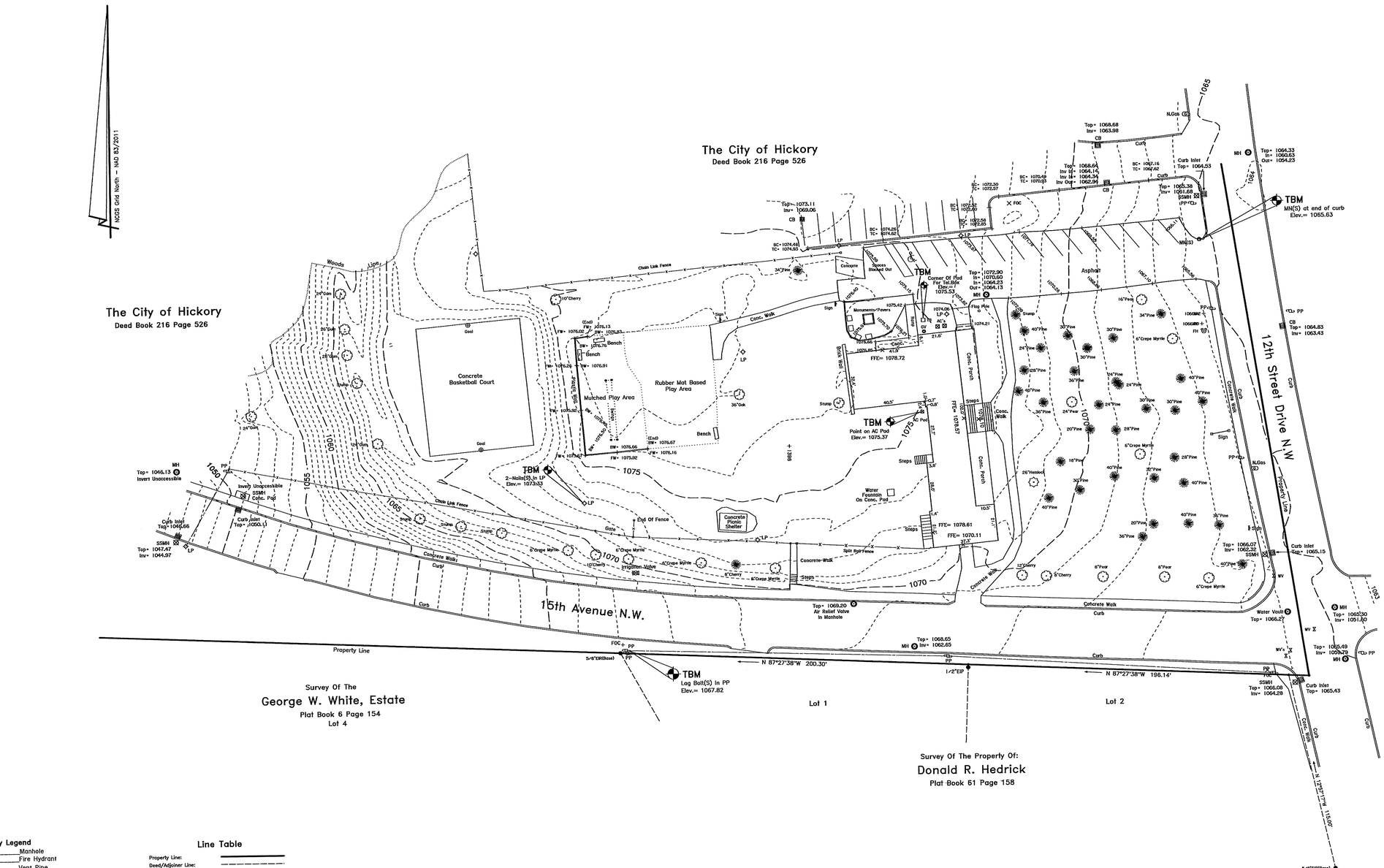


Utility Legend

M.H._____Manhole
F.H._____Fire Hydrant
V.P._____Vent Pipe
G.V._____Gas Valve
W.M._____Water Meter
H.H._____Hose House
P.P._____Power Pole
L.P._____Lamp Pole
C.B._____Catch Basin
W.V._____Water Valve
T.P._____Telephone Pole
T.B._____Telephone Box
C.O._____Clean Out
S.P._____Service Pole
E.M._____Electrical Meter
G.M._____Gas Meter
M.W._____Monitor Well
R.C.P._____Reinforced Concrete Pipe
C.M.P._____Corrugated Metal Pipe
F.O.C._____Fiber Optic Cable
C.P.P._____Corrugated Plastic Pipe

Line Table

Property Line:	
Deed/Adjoiner Line:	
Flood Line:	
Power Line (Aerial):	
Power Line (Underground):	P P P
Telephone (Underground):	T T T
Natural Gas Line:	G G G
Water Line:	W W W
Sewer Line:	S S S
Right Of Way Line:	
Centerline:	
Fiber Optic Line:	F F F
Fence (Type As Noted):	X X X

30 0 30 60 90
GRAPHIC SCALE – FEET

Legend

Existing Iron Pipe	●	EIP
New Iron Pipe	◇	NIP
P.K. Nail	△	PK
Concrete Monument	□	CM
New Iron Rod	○	NIR
Existing Iron Rod	●	EIR
Point	•	Pt.
Railroad Spike	⊠	RRS
Feno Monument	⊡	FM
Temporary Bench Mark	⊕	TBM
MAG Nail	⊙	MN
Found		(F)
Set		(S)

Flood Information

According To FIRM Map Panel #_3710279300K_
The Property Shown ⟨⟩ (Is Not) Located
Within A 100 Year Flood Hazard Boundary.
Effective Date: 7/7/2009

I, R. Curtis Gaines, PLS, Certify That The Map Shown Hereon Was Drawn Under My Supervision From An Actual Topographic Survey Made Under My Supervision; That The Survey Was Performed To Class A Specifications.
This The 29th Day Of September 20 25

R.C.G.

(PLS NO. L-4868)

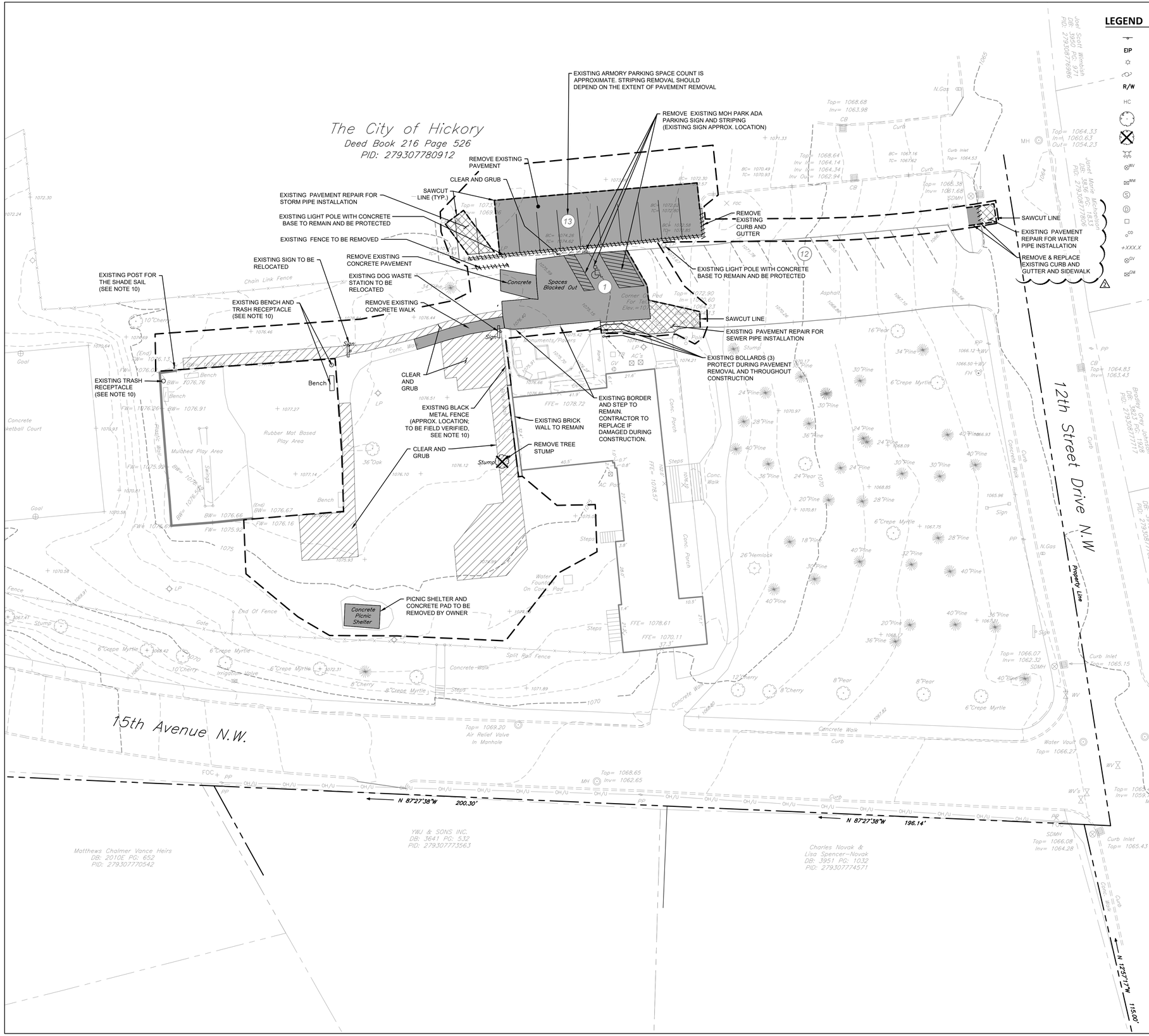
Western Carolina Surveyors, P.A. (License No. C-0338)
912 Wilkesboro Blvd. LENOIR, N.C. TELE. (828) 758-5353

TITLE: Partial Topographic & Location Survey Of The Property:
The City Of Hickory

CLIENT:	TOWNSHIP	COUNTY	STATE
City Of Hickory	Hickory	Catawba	NC

DEED REF. BK. 216 PG. 526 BK. PG. BK. PG.
TAX MAP NUMBER: 279307780912
LAYERS 21/24/38/42/59

APP. BY	DRAWN BY	DATE	SCALE: 1"= 30'	CF: 10866-A SF:	BY RCG
RCG	LJC	9/29/2025	Job No.: 10866-A	FB: Data Coll.	SHEET 1 of 1



LEGEND

	EXISTING SIGN	X OR \\\\\	EXISTING ITEMS TO BE REMOVED
EIP	EXISTING IRON PIN		EXISTING PAVEMENT TO BE REMOVED
	EXISTING LIGHT POLE		EXISTING PAVEMENT TO BE REPLACED
	EXISTING UTILITY POLE		EXISTING VEGETATION TO BE REMOVED
R/W	RIGHT-OF-WAY		SAWCUT LINE
HC	ACCESSIBLE SPACE		EXISTING CURB AND GUTTER
	EXISTING TREE TO REMAIN		PROPERTY LINE
	EXISTING TREE TO BE REMOVED	-x-x-x-	EXISTING FENCE
	EXISTING FIRE HYDRANT	UGE	EXISTING UNDERGROUND ELECTRIC LINE
WV	EXISTING WATER VALVE	OH/U	EXISTING OVERHEAD ELECTRIC LINE
WM	EXISTING WATER METER	T	EXISTING UNDERGROUND TELEPHONE LINE
S	EXISTING SEWER MANHOLE	FO/C	EXISTING FIBER OPTIC LINE
D	EXISTING STORM MANHOLE	SS	EXISTING SANITARY SEWER LINE
	EXISTING DRAINAGE STRUCTURE	W	EXISTING WATER LINE
CO	EXISTING CLEANOUT	G	EXISTING GAS LINE
+XXX.X	EXISTING SPOT ELEVATION	XXX	EXISTING CONTOUR LINE
GV	EXISTING GAS VALVE		TEMPORARY TREE PROTECTION BARRICADE
GM	EXISTING GAS METER		EXISTING TREELINE
		E	EXISTING EASEMENT

DEMOLITION/CLEARING NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PREPARED FOR THE CITY OF HICKORY BY WESTERN CAROLINA SURVEYORS, PA., DATED SEPTEMBER 29TH, 2025.
2. CONTRACTOR SHALL REMOVE EXISTING TREES, CONCRETE, ASPHALT AND OTHER EXISTING STRUCTURES INDICATED ON PLAN. CONTRACTOR TO DISPOSE OF ALL DEBRIS TO AN APPROVED (LEGAL) OFF-SITE LOCATION.
3. PROTECT ADJACENT CURBS, TREES, BUILDINGS, UTILITIES AND OTHER ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR PAYMENT OF ANY DAMAGED ITEMS TO REMAIN.
4. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
5. CONTRACTOR SHALL REPORT ANY ENCROACHMENTS OR DISCREPANCIES IMMEDIATELY TO ALFRED BENESCH & COMPANY FOR DECISION.
6. HATCHED AREA ON THIS PLAN INDICATES EXISTING VEGETATED/GRASSED AREA TO BE CLEARED AND GRUBBED. INDIVIDUAL TREES SHOWN HAVE BEEN SURVEYED BY WESTERN CAROLINA SURVEYORS, PA ON 9/29/2025.
7. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE ADDITIONAL TREES WHEREVER FEASIBLE.
8. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE SAVE AREA.
9. CLEARING LIMITS ON THE PLAN INDICATE THE EXTENT OF ALL MAJOR CLEARING REQUIRED, CONTRACTOR IS ALSO RESPONSIBLE FOR ANY INCIDENTAL CLEARING REQUIRED FOR MINOR DISCREPANCIES IN GRADE, UTILITY OR STORM PIPE INSTALLATIONS, EROSION CONTROL MEASURES, ETC.
10. SELECTED ITEM/FEATURE ON PLAN WERE OBSERVED DURING A SEPARATE SITE INSPECTION BY BENESCH. THESE FEATURES WERE NOT INCLUDED IN THE SURVEY AND MUST BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION.

Know what's below. Call before you dig.

NORTH

20 0 10 20 40
SCALE: 1"=20'

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Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

Corp. NC license: F-1320

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no:	1726.500007.00
Date:	07.17.26
Revisions:	
1 BID ADDENDUM 2	09.21.26

Sheet Title:

EXISTING CONDITIONS AND DEMOLITION PLAN

Sheet No:

C100

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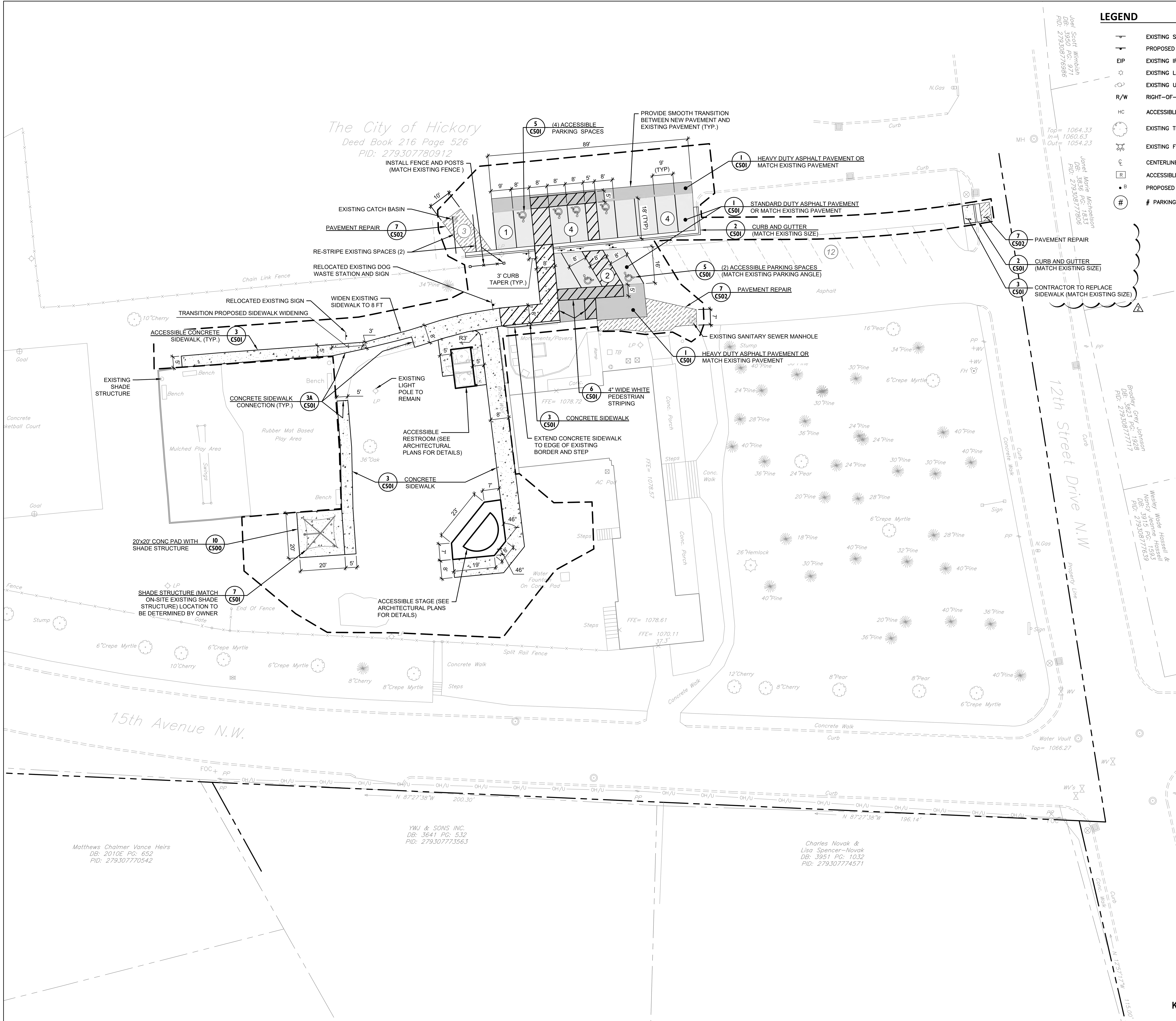

LEGEND

Symbol	Description	Symbol	Description
	EXISTING SIGN		EXISTING CURB AND GUTTER
	PROPOSED SIGN		PROPOSED CURB AND GUTTER
EIP	EXISTING IRON PIN		PROPOSED FLUSH CURB AND GUTTER
	EXISTING LIGHT POLE		PROPERTY LINE
	EXISTING UTILITY POLE	E	EXISTING EASEMENT
R/W	RIGHT-OF-WAY		EXISTING FENCE
HC	ACCESSIBLE SPACE		PROPOSED FENCE
	EXISTING TREE TO REMAIN	OH/U	EXISTING OVERHEAD UTILITY LINE
	EXISTING FIRE HYDRANT		EXISTING ASPHALT PAVEMENT
℄	CENTERLINE		PROPOSED STANDARD DUTY ASPHALT PAVEMENT
R	ACCESSIBLE RAMP		PROPOSED HEAVY DUTY ASPHALT PAVEMENT
• B	PROPOSED BOLLARD		PROPOSED PAVEMENT REPAIR
#	PARKING COUNT		PROPOSED CONCRETE WALK

SITE NOTES

1. DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.
2. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
3. ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.
4. PRIOR TO BEGINNING CONSTRUCTION, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS (BOTH SITE AND BUILDING RELATED) INCLUDING BUT NOT LIMITED TO REGULATORY FEES, LICENSES, AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
6. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.
7. USE CAUTION WHEN REPRODUCING COPIES OF THE CONSTRUCTION DRAWINGS. COPIES ARE SUBJECT TO DISTORTION AND INACCURACY IN THE SCALE OF DRAWINGS. VERIFY ANY DISCREPANCIES WITH BENESCH.
8. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AS AMENDED.
9. ALL PAVEMENT MARKINGS SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
11. CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT AREAS TO TIE IN SMOOTHLY TO PROPOSED PAVEMENT AS INDICATED ON THE PLANS.
12. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING AND STAGE DIMENSIONS.
13. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.
14. CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE OWNER.
15. STOP BEFORE YOU DIG. CALL 811. IT'S THE LAW.

SITE DATA

PROJECT	**MIRACLE OF HICKORY PARK MODIFICATIONS**
OWNER	**CITY OF HICKORY**
ADDRESS	**1515 12TH STREET DR NW, HICKORY, NC**
TAX ACREAGE	**51.64 AC**
TAX PARCEL NO.	**279307780912**
ZONING	**PD (PLANNED DEVELOPMENT) R-3**
JURISDICTION	**CITY OF HICKORY (WATER QUALITY REVIEW); NCDEQ (EROSION CONTROL)**
WATERSHED DISTRICT	**LAKE HICKORY**
FEMA	**NOT WITHIN FLOOD ZONE**
RIVER BASIN	**CATAWBA**
SETBACK	**20' FRONT & REAR; 5' SIDE**
MAXIMUM HEIGHT	**40'**
EXISTING PARKING:	**26 SPACES**
MOH PARK	**12 REGULAR SPACES + 1 ADA SPACES = 13**
ARMORY	**13 REGULAR SPACES**
PROPOSED PARKING:	**26 SPACES**
MOH PARK	**12 REGULAR SPACES + 2 ADA SPACES = 14**
ARMORY	**8 REGULAR SPACES + 4 ADA SPACES = 12**
UTILITY (WATER & SEWER)	**CITY OF HICKORY**
INCREASE IN IMPERVIOUS	**2,786 SF**
EXISTING IMPERVIOUS	**418 SF (TO BE REMOVED)**
PROPOSED IMPERVIOUS	**2,368 SF**
DISTURBED AREA	**0.6 AC**

811 Know what's below. Call before you dig.

NORTH

20 0 10 20 40
SCALE: 1"=20'

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Seals:
NORTH CAROLINA
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9/21/2026
Corp. NC license: F-1320

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:
2 BID ADDENDUM 2 09.21.26

Sheet Title:
SITE PLAN

Sheet No:
C200

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
· Temporary grass seed covered with straw or other mulches and tackifiers. · Hydroseeding · Rolled erosion control products with or without temporary grass seed · Appropriately applied straw or other mulch · Plastic sheeting	· Permanent grass seed covered with straw or other mulches and tackifiers · Geotextile fabrics such as permanent soil reinforcement matting (PRSM) · Hydroseeding · Shrubs or other permanent plantings covered with mulch · Uniform and evenly distributed ground cover sufficient to restrain erosion · Structural methods such as concrete, asphalt or retaining walls · Rolled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not consitute permanent stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g.dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

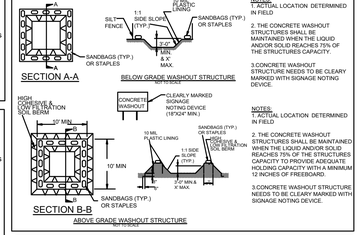
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

DEQ — NORTH CAROLINA Department of Environmental Quality

GROUND COVER & MATERIALS HANDLING

Effective: April 1, 2024

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description of maintenance needs for the measure 6. Description, Evidence, and date of corrective actions taken
(3) Stormwater discharge outfalls(SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the discharge outfalls inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration 5. Indication of visible sediment leaving the site 6. Description, Evidence, and date corrective actions taken
(4) Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If visible Sedimentation is found outside site limits, then record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If the stream or wetland has increased visible sedimentation or has visible increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2)Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item(2)(a) of this permit
(6) Ground Stabilization Measures	After each phase of grading.	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Document Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years*
*All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:
(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

DEQ — NORTH CAROLINA Department of Environmental Quality

INSPECTION, RECORD KEEPING AND REPORTING

Effective: April 1, 2024

CONSTRUCTION SEQUENCE:

A. SUBMIT NOTICE OF INTENT (NOI) TO CITY OF HICKORY.
B. CONTACT EROSION CONTROL INSPECTOR TO INFORM HIM THAT CONSTRUCTION IS READY TO BEGIN.
C. CONDUCT A PRE CONSTRUCTION ONSITE MEETING WITH THE OWNER, CONTRACTOR, AND EROSION CONTROL INSPECTOR.
D. CLEARING ONLY AS NECESSARY, INSTALL SILT FENCE, TEMPORARY DIVERSION SWALES, AND EROSION CONTROL DEVICES AS SHOWN ON SHEET C301 FOR THE EROSION CONTROL PHASE. COMPLETE A SELF INSPECTION REPORT FOR THIS PHASE OF CONSTRUCTION (SEE SELF INSPECTION REQUIREMENTS, THIS SHEET).
E. TEMP. SEED ALL NEW DENUDED AREAS FROM THE INSTALLATION OF ANY NEWLY INSTALLED EROSION CONTROL MEASURES.
F. CLEAR REMAINING VEGETATION WITHIN PROJECT LIMITS IF NEEDED.
G. BEGIN BRINGING SITE UP TO GRADE. INSTALL TEMPORARY INLET PROTECTION, EROSION CONTROL DEVICES & TEMPORARY DIVERSION SWALES AS NEEDED AS SITE IS CONSTRUCTED TO FINAL GRADE. INSTALL ADDITIONAL INLET PROTECTION AS NEEDED WHEN SITE IS BEING BROUGHT UP TO GRADE AND STORM DRAINAGE IS INSTALLED.
H. COMPLETE SELF INSPECTION REPORT ONCE ALL EROSION CONTROL DEVICES AND BMPS HAVE BEEN INSTALLED AND STABILIZED. CHECK FOR DIMENSIONS SPECIFIED IN THE PLANS.
I. CONSTRUCT ALL HARDSCAPING .
J. SEE SEEDING SCHEDULE FOR SEED TYPE, DATES, AND RATES.
K. COMPLETE ALL CONSTRUCTION WITHIN THESE PROJECT LIMITS. STABILIZE DENUDED AREAS IF THEY WILL REMAIN OPEN FOR MORE THAN 7 DAYS.
L. EROSION CONTROL MEASURES (FENCES, DIVERSION DITCHES) DIRECTLY AFFECTED BY THIS CONTRACT SHALL BE MAINTAINED/REMOVED UNDER THIS CONTRACT. DEVICES SHALL BE MAINTAINED TO MAX. 50% CAPACITY UNTIL AREAS THEY SERVE ARE FULLY STABILIZED.
M. PROVIDE PERMANENT GRASSING FOR ALL DISTURBED AREAS.
N. CONTACT CITY OF HICKORY FOR PERMISSION TO REMOVE EROSION CONTROL DEVICES.
O. REMOVE ALL EROSION CONTROL DEVICES. SPREAD AND SEED ACCUMULATED SEDIMENT.
P. SUBMIT NOTICE OF TERMINATION (NOT) TO CITY OF HICKORY.
Q. CONSTRUCT ALL HARDSCAPING NOT INSTALLED WHILE THE EROSION CONTROL DEVICES WERE IN PLACE.
R. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, AND THE SCS EROSION CONTROL ORDINANCE.
S. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY OF HICKORY SO THAT PERIODIC INSPECTIONS CAN BE CONDUCTED AT APPROPRIATE STAGES OF CONSTRUCTION.
T. ESTIMATED TIME BEFORE FINAL STABILIZATION IS 6 MONTHS.

SELF INSPECTION REQUIREMENTS

1. SELF-INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES NCG010000.
2. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, SEDIMENTATION PONDS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, ROCK CHECK DAMS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATERS, STABILIZATION METHODS OF OPEN CHANNELS, AND GROUND COVER SHALL BE INSPECTED BY THE GENERAL CONTRACTOR.
3. THE DIMENSIONS OF THE BASINS SHALL BE CHECKED AND COMPARED TO THE DIMENSIONS ON THE APPROVED SEDIMENTATION AND EROSION CONTROL PLAN. NOTIFY BENESCH IF THE DIMENSIONS OF ANY OF THE EROSION CONTROL MEASURES DEVIATE FROM THE PLANS.
4. A "SELF-INSPECTION REPORT FORM FOR LAND DISTURBING ACTIVITY" (AS REQUIRED BY NCGS 113A-54.1) IS AVAILABLE ON THE NCDEQ WEBSITE OR PROVIDED WITHIN THE PROJECT MANUAL. ALTERNATIVELY THE OWNER OR DESIGNATED REPRESENTATIVE COMPLETING THE INSPECTIONS MAY MAKE NOTATIONS ON THE COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN THAT IS KEPT ON THE PROJECT SITE. DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIALING AND DATING EACH MEASURE OR PRACTICE SHOWN ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT THAT LISTS EACH MEASURE, PRACTICE OR DEVICE SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. ALL DOCUMENTATION AND/OR REPORTS OF INSPECTIONS MUST BE MADE AVAILABLE ON THE SITE.
5. THE SELF-INSPECTION REPORT IS TO BE COMPLETED AFTER EACH PHASE OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS COMPLETE. THESE PHASES APPLY FOR THIS PROJECT:
   5.1. INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES;
   5.2. CLEARING AND GRUBBING OF EXISTING GROUND COVER;
   5.3. COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS;
   5.4. INSTALLATION OF STORM DRAINAGE FACILITIES;
   5.5. COMPLETION OF CONSTRUCTION OR DEVELOPMENT;
   5.6. ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGN.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE.
3. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. THE ENGINEER MAY DIRECT THAT ADDITIONAL SILT FENCING OR EROSION CONTROL MATTING BE INSTALLED AT ANY TIME PRIOR TO FINAL ACCEPTANCE.
4. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS INCLUDED IN THESE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONCE THE ENTIRE SITE IS STABILIZED.
6. CONTACT PERSON RESPONSIBLE FOR EROSION CONTROL MAINTENANCE:_____

EROSION CONTROL NOTES:

1. SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
   1A. ALL PERIMETER DIKES, SWALES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
   1B. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
   1C. CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
   1D. EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
   1E. ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY REQUIREMENT APPLIES.
   1F. ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT.
   1G. SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.
   1H. ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.
   1I. FOR PORTIONS OF PROJECTS WITHIN THE SEDIMENT CONTROL COMMISSION-DEFINED HIGH QUALITY WATER ZONE (15A NCAC 04A .0105), STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.
   1J. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF NCDEQ STAFF. ANY LAND-DISTURBING ACTIVITY >1 ACRE REQUIRES COMPLIANCE WITH ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PERMIT NO NCG010000). ANY PERMIT NONCOMPLIANCE IS A VIOLATION OF THE CLEAN WATER ACT AND MAY REQUIRE ENFORCEMENT ACTION BY NCDEQ.
2. DISTURBED AREAS DRAINING GREATER THAN ONE ACRE MUST HAVE AN EROSION CONTROL MEASURE THAT DRAINS FROM THE WATER SURFACE ELEVATION.
3. REQUIRED ARMY CORPS 404 PERMIT AND WATER QUALITY 401 CERTIFICATION MUST BE OBTAINED FOR STREAM DISTURBANCES OVER 150 LINEAR FEET.
4. ANY BORROW OR WASTE MATERIAL SHALL BE TAKEN/PLACED ON A SITE THAT HAS AN ACTIVE APPROVED GRADING PERMIT. IF THIS IS NOT OBTAINABLE, THEN CONTRACTOR MAY SUBMIT PLAN FOR APPROVAL TO NCDEQ PRIOR TO ANY OFF-SITE BORROW/WASTE AREAS BEING DENUDED AND ANY GRADING OPERATIONS STARTING ON THIS SITE.
5. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE NCDEQ EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
6. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE NCDEQ EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
7. ANY AND ALL SITE FINES IMPOSED BY NCDEQ OR ANY OTHER GOVERNING AGENCY SHALL BE PAID BY THE GRADING CONTRACTOR.
8. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
9. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
10. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
13. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
14. TEMPORARY DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
15. TOTAL DENUDED AREA: 0.6 ACRES
16. SOIL TYPES: CLIFFORD SANDY LOAM (CfB) AND FAIRVIEW GRAVELLY FINE SANDY LOAM (FcC)
17. NAME OF RECEIVING WATER COURSE: HORSEFORD CREEK;
CLASSIFICATION OF RECEIVING WATER COURSE: WS-IV;
RIVER BASIN: CATAWBA

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Alfred Benesch & Company
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P 704.521.9880

Seals
Signed by: Morgan Woolner
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053444 MORGAN R. WOOLNER
8/25/2026
Corp. NC license: F-1320

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:

Sheet Title:
EROSION AND SEDIMENT CONTROL NOTES

Sheet No:
C300

LEGEND

	EXISTING SIGN		EXISTING CURB AND GUTTER
EIP	EXISTING IRON PIN		PROPOSED CURB AND GUTTER
	EXISTING LIGHT POLE		PROPERTY LINE
	EXISTING UTILITY POLE	—x—x—x—	EXISTING FENCE
R/W	RIGHT-OF-WAY	—UGE—	EXISTING UNDERGROUND ELECTRIC LINE
HC	ACCESSIBLE SPACE	—OH/U—	EXISTING OVERHEAD UTILITY LINE
	EXISTING TREE TO REMAIN	—T—	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING FIRE HYDRANT	—FO/C—	EXISTING FIBER OPTIC LINE
WV	EXISTING WATER VALVE	—SS—	EXISTING SANITARY SEWER LINE
WM	EXISTING WATER METER	—W—	EXISTING WATER LINE
S	EXISTING SEWER MANHOLE	—G—	EXISTING GAS LINE
D	EXISTING STORM MANHOLE	— — XXX — —	EXISTING CONTOUR LINE
DI I	PROPOSED DRAINAGE STRUCTURE	—XXX—	PROPOSED CONTOUR LINE
CO	EXISTING CLEANOUT		TEMPORARY TREE PROTECTION BARRICADE
DS	EXISTING DOWNSPOUT		EXISTING STORM DRAINAGE PIPE
	TEMPORARY SILT SACK		PROPOSED STORM DRAINAGE PIPE
	TEMPORARY INLET PROTECTION		EXISTING TREE LINE
	TEMPORARY ROCK CHECK DAM	GV	EXISTING GAS VALVE
	TEMPORARY SILT SOCK	GM	EXISTING GAS METER
			TEMPORARY SILT FENCE
			STONE OPENING IN TEMPORARY SILT FENCE
			TEMPORARY TREE PROTECTION BARRICADE
			LIMITS OF GRADING/CONSTRUCTION
			LINED GRASS SWALE
			GRASS SWALE

Know what's **below.**
Call before you dig.

NORTH

20 0 10 20 40
SCALE: 1"=20'

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Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals
Signed by: Morgan Woolner
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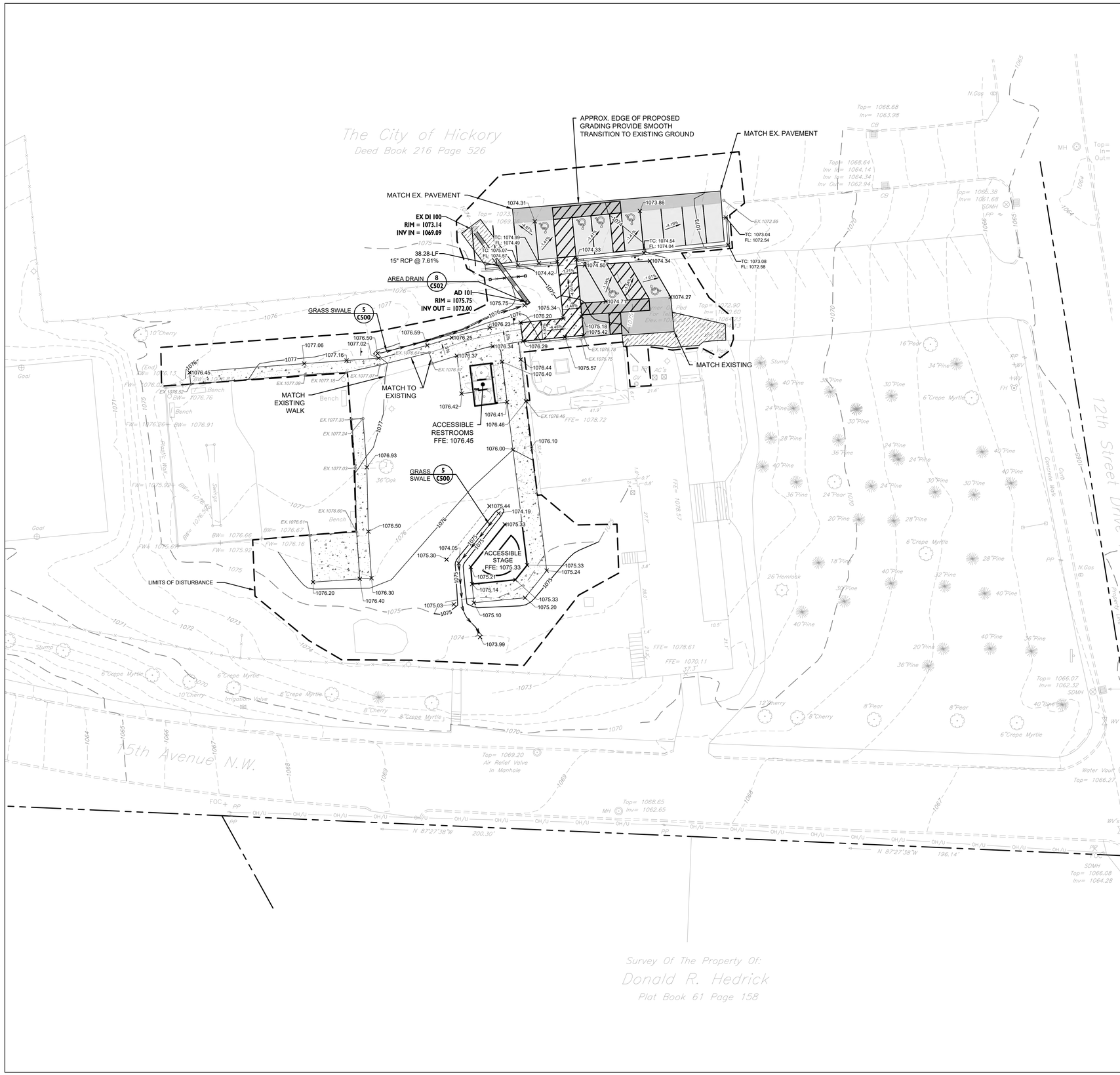
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053444 MORGAN R. WOOLNER
8/25/2026
Corp. NC license: F-1320

Miracle of Hickory Park Modifications
1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:

Sheet Title:
EROSION AND SEDIMENT CONTROL PLAN

Sheet No:
C301



LEGEND

	EXISTING SIGN		EXISTING CURB AND GUTTER
EIP	EXISTING IRON PIN		PROPOSED CURB AND GUTTER
	EXISTING LIGHT POLE		PROPERTY LINE
	EXISTING UTILITY POLE	x—x—x	EXISTING FENCE
R/W	RIGHT-OF-WAY	UGE	EXISTING UNDERGROUND ELECTRIC LINE
HC	ACCESSIBLE SPACE	OH/U	EXISTING OVERHEAD UTILITY LINE
	EXISTING TREE TO REMAIN	T	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING FIRE HYDRANT	FO/C	EXISTING FIBER OPTIC LINE
WV	EXISTING WATER VALVE	SS	EXISTING SANITARY SEWER LINE
WM	EXISTING WATER METER	W	EXISTING WATER LINE
S	EXISTING SEWER MANHOLE	G	EXISTING GAS LINE
D	EXISTING STORM MANHOLE	XXX	EXISTING CONTOUR LINE
MH I	PROPOSED STORM MANHOLE	XXX	PROPOSED CONTOUR LINE
	PROPOSED FLARED END SECTION		TEMPORARY TREE PROTECTION BARRICADE
FES I	EXISTING DRAINAGE STRUCTURE		EXISTING STORM DRAINAGE PIPE
DI I	PROPOSED DRAINAGE STRUCTURE		PROPOSED STORM DRAINAGE PIPE
+XXX.X	EXISTING SPOT ELEVATION	RD	PROPOSED ROOF DRAIN PIPE
XXX.XX	PROPOSED SPOT ELEVATION		EXISTING TREE LINE
CO	EXISTING CLEANOUT	GV	EXISTING GAS VALVE
DS	EXISTING DOWNSPOUT	GM	EXISTING GAS METER
	TEMPORARY SILT SACK		TEMPORARY SILT FENCE
	TEMPORARY INLET PROTECTION		STONE OPENING IN TEMPORARY SILT FENCE
	TEMPORARY ROCK CHECK DAM		TEMPORARY TREE PROTECTION BARRICADE
	TEMPORARY FILTER BERM BASIN		LIMITS OF GRADING/CONSTRUCTION
	TEMPORARY GRAVEL ENTRANCE		LINED GRASS SWALE
	OUTLET PROTECTION		GRASS SWALE

GRADING AND DRAINAGE NOTES

1. EARTHWORK QUANTITIES HAVE NOT BEEN ESTIMATED AND SITE AS SHOWN IS NOT ASSUMED TO REPRESENT A BALANCED CUT/FILL CONDITION.
2. CONTRACTOR SHALL PERFORM HIS OWN ESTIMATES AND SHALL PROVIDE ALL EARTHWORK NECESSARY TO ACHIEVE THE DESIGN GRADE, INCLUDING ANY OFFSITE BORROW OR SPOILS REQUIRED.
3. ROOF LEADERS SHALL BE SCH 40 PVC. MINIMUM COVER SHALL BE 18". MINIMUM SLOPE SHALL BE 1%. PROVIDE CLEANOUTS AT ALL CONNECTIONS WITH BUILDING DRAIN AND WHERE INDICATED. REFER TO ARCHITECTURAL DWGS. FOR THE EXACT LOCATION OF ROOF DRAINS AT THE BUILDING.
4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL GRADED AREAS, INCLUDING PAVING, LAWN AND LANDSCAPE AREAS.
5. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
6. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
7. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
8. THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN DRIVES, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
9. PROPOSED SPOT ELEVATIONS SHOWN REFER TO BOTTOM OF CURB UNLESS OTHERWISE NOTED ON PLAN.
10. PIPE LENGTHS SHOWN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.
11. CROSS SLOPE OF SIDEWALKS SHALL BE 2% (MAX).
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1
13. NO DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
14. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
15. BRUSH, VINES AND SMALL TREES (<8 IN. DIA., OR AS SMALL AS 2 IN. CALIPER) MAY BE HAND CLEARED ONLY CUT FLUSH WITH GROUND SURFACE. EXISTING TREES MAY BE LIMBED UP 6 FEET (AT LEAST 2/3 OF THE BRANCHES SHOULD BE LEFT) TO IMPROVE VISIBILITY.
16. EXPOSED TREE ROOTS MUST BE CLEANLY CUT WITH A SHARP PRUNING TOOL; BACKFILL ASAP TO MINIMIZE EXPOSURE TO THE AIR.
17. UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION TO THE DOWNSPOUTS INSTALLED BY THE ROOFING CONTRACTOR BETWEEN THE SITE ROOF DRAIN PIPE A SHALL BE MADE BY THE SITE GRADING CONTRACTOR.
18. IN ORDER TO ENSURE ADEQUATE DRAINAGE, FLOW LINES IN GUTTERS SHALL BE 0.50% MINIMUM.

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Seals

Signed by: Morgan Woolner
2376E4188CFC49E...
NORTH CAROLINA PROFESSIONAL SEAL 053444 ENGINEER MORGAN R. WOOLNER
07/25/2026

Corp. NC license: F-1320

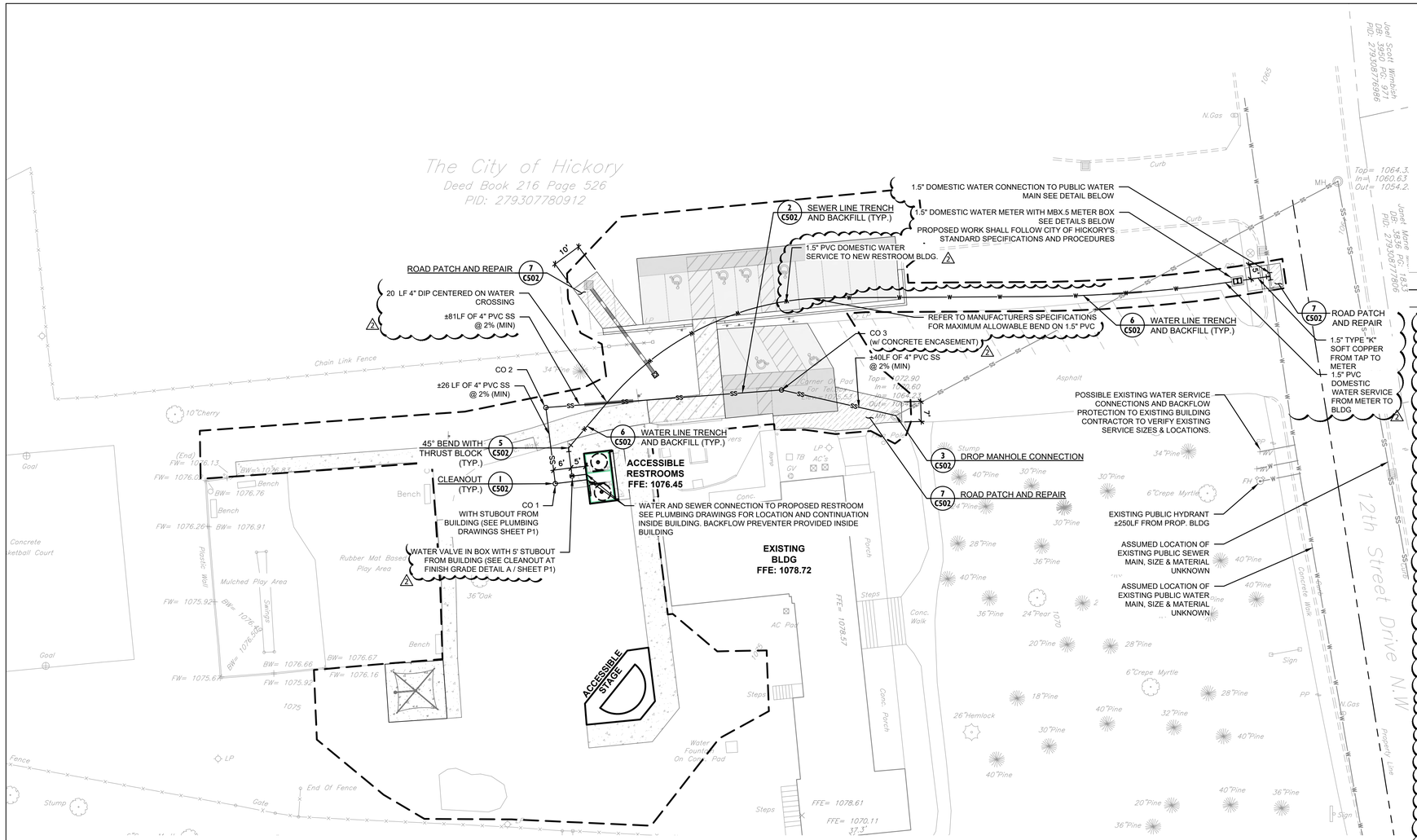
Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:

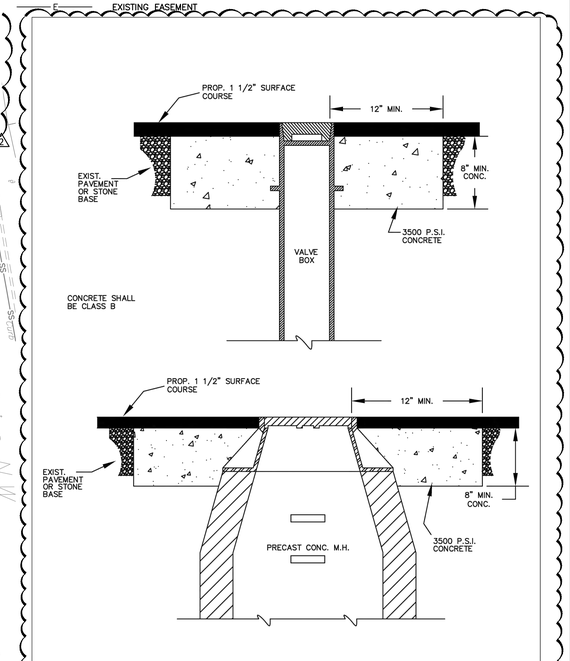
Sheet Title:
GRADING AND DRAINAGE PLAN

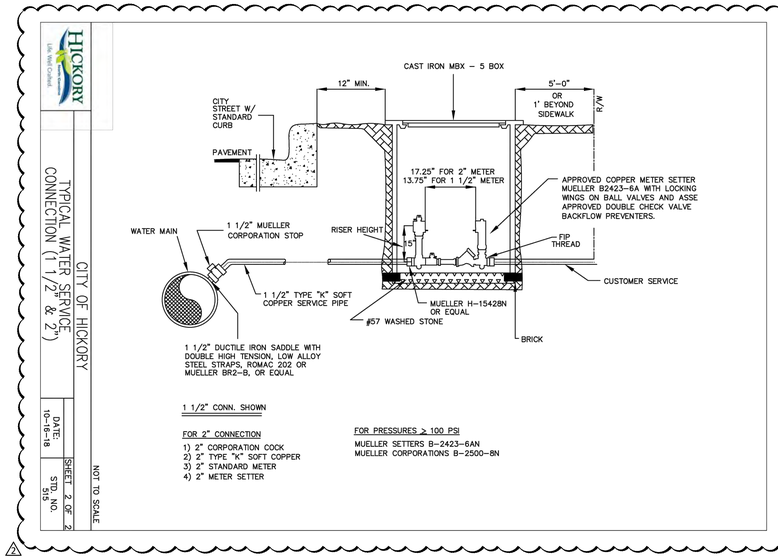
Sheet No:
C302

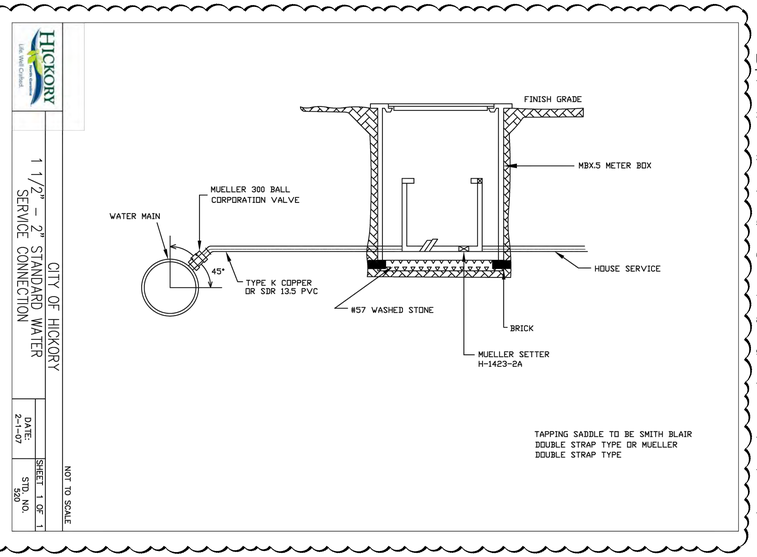


LEGEND

	EXISTING SIGN		EXISTING CURB AND GUTTER
EIP	EXISTING IRON PIN		PROPOSED CURB AND GUTTER
	EXISTING LIGHT POLE		PROPERTY LINE
	EXISTING UTILITY POLE	X X X	EXISTING FENCE
R/W	RIGHT-OF-WAY	UGE	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING FIRE HYDRANT	OH/U	EXISTING OVERHEAD ELECTRIC LINE
WV	EXISTING WATER VALVE	T	EXISTING UNDERGROUND TELEPHONE LINE
WM	EXISTING WATER METER	SS	EXISTING SANITARY SEWER LINE
	EXISTING CLEANOUT	SS	PROPOSED SANITARY SEWER LINE
CO #	PROPOSED CLEANOUT	W	EXISTING WATER LINE
	EXISTING DRAINAGE STRUCTURE	W	PROPOSED WATER LINE
	PROPOSED DRAINAGE STRUCTURE	XXX	EXISTING CONTOUR LINE
	EXISTING SEWER MANHOLE	XXX	PROPOSED CONTOUR LINE
G	EXISTING GAS LINE		EXISTING STORM DRAINAGE PIPE
G	PROPOSED GAS LINE		PROPOSED STORM DRAINAGE PIPE
E	EXISTING EASEMENT		







UTILITY NOTES

1. ALL UTILITY CONSTRUCTION (PRIVATE AND PUBLIC) SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES (STORM DRAINAGE, ELECTRIC, GAS, TELEPHONE, ETC.) PRIOR TO CONSTRUCTION. INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND ACTUAL FIELD CONDITIONS ARE FOUND.
4. MINIMUM COVER FOR ALL SANITARY SEWER MAINS SHALL BE 3'-0". DUCTILE IRON PIPE SHALL BE SUBSTITUTED WHEN MINIMUM COVER CAN NOT BE MAINTAINED.
5. THE STANDARD DEPTH OF COVER FOR WATER MAINS SHALL BE 3'-0" MIN. EXCEPT AT VALVE OR HYDRANT LOCATIONS, OR OTHER SPECIAL CONDITIONS.
6. THE CONNECTION TO EXISTING WATER MAINS SHALL BE PERFORMED ONLY AFTER ALL PRESSURE TESTING AND CHLORINATION ARE SUCCESSFULLY COMPLETED AND THE LOCAL REVIEW AUTHORITY HAS APPROVED THE CONNECTION. THE CONTRACTOR SHALL AVOID DISRUPTION OF EXISTING SERVICE.
7. REFER TO PLUMBING DRAWING SERIES FOR THE LOCATION OF WATER AND SANITARY SEWER SERVICE CONNECTIONS AT THE BUILDING.
8. UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION BETWEEN THE SITE UTILITY LINES AND THE PIPE INSTALLED BY THE PLUMBING CONTRACTOR SHALL BE MADE BY THE SITE UTILITY CONTRACTOR.
9. PIPE LENGTHS SHOWN ON PLAN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.
10. IF WATER LINE CROSSES OVER SANITARY SEWER WITH LESS THAN 18 INCHES VERTICAL CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON 10' EACH SIDE. IF WATER CROSSES UNDER THE SEWER REGARDLESS OF CLEARANCE, BOTH PIPES SHALL BE DUCTILE IRON 10' EACH SIDE. IF WATER LINE RUNS PARALLEL TO SEWER LINE WITH LESS THAN 18" VERTICAL CLEARANCE AND LESS THAN 10' SIDE CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON.
11. IF REQUIRED BY NUMBER 10 ABOVE, REPLACE EXISTING SEWER WITH DUCTILE IRON PIPE, CLASS 350 WORKING PRESSURE WITH GASKETED JOINTS, 10' EACH SIDE OF WATER MAIN.
12. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CITY OF HICKORY REQUIRED BACKFLOW PREVENTER.
13. EACH REQUIRED BPA IS REQUIRED TO BE TESTED BY A CITY OF HICKORY APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

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Seals:

Corp. NC license: F-1320

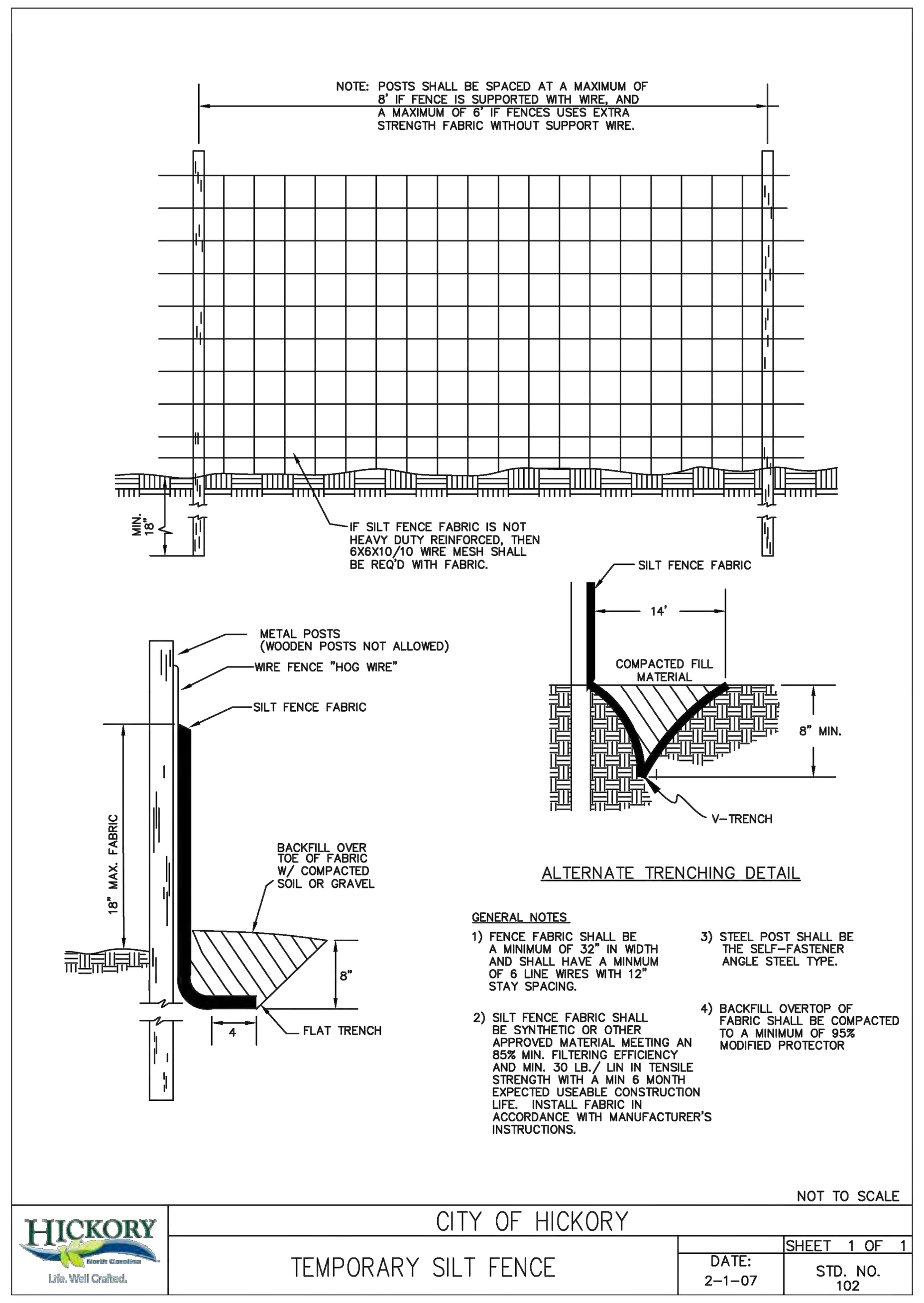
Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:
2 BID ADDENDUM 2 09.21.26

Sheet Title:
UTILITY PLAN

Sheet No:
C400



1 Temporary Silt Fence
City of Hickory STD. 102

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120

SEEDING DATES
MOUNTAINS—AUG. 15 – DEC. 30
COASTAL PLAIN AND PIEDMONT—AUG. 15 – DEC. 30

SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REPAIR AND RE–FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF NECESSARY TO EXTENT TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COSTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
GERMAIN MILLET	40

IN THE PIEDMONT AND MOUNTAINS, A SMALL–STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING DATES
MOUNTAINS—MAY 15 – AUG. 15
PIEDMONT—MAY 1 – AUG. 15
COASTAL PLAIN—APR. 15 – AUG. 15

SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COSTAL PLAIN, KOREAN IN MOUNTAINS)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES
MOUNTAINS—ABOVE 2500 FEET: FEB. 15 – MAY 15
BELOW 2500 FEET: FEB. 1 – MAY 1
PIEDMONT—JAN. 1 – MAY 1
COASTAL PLAIN—DEC. 1 – APRIL 15

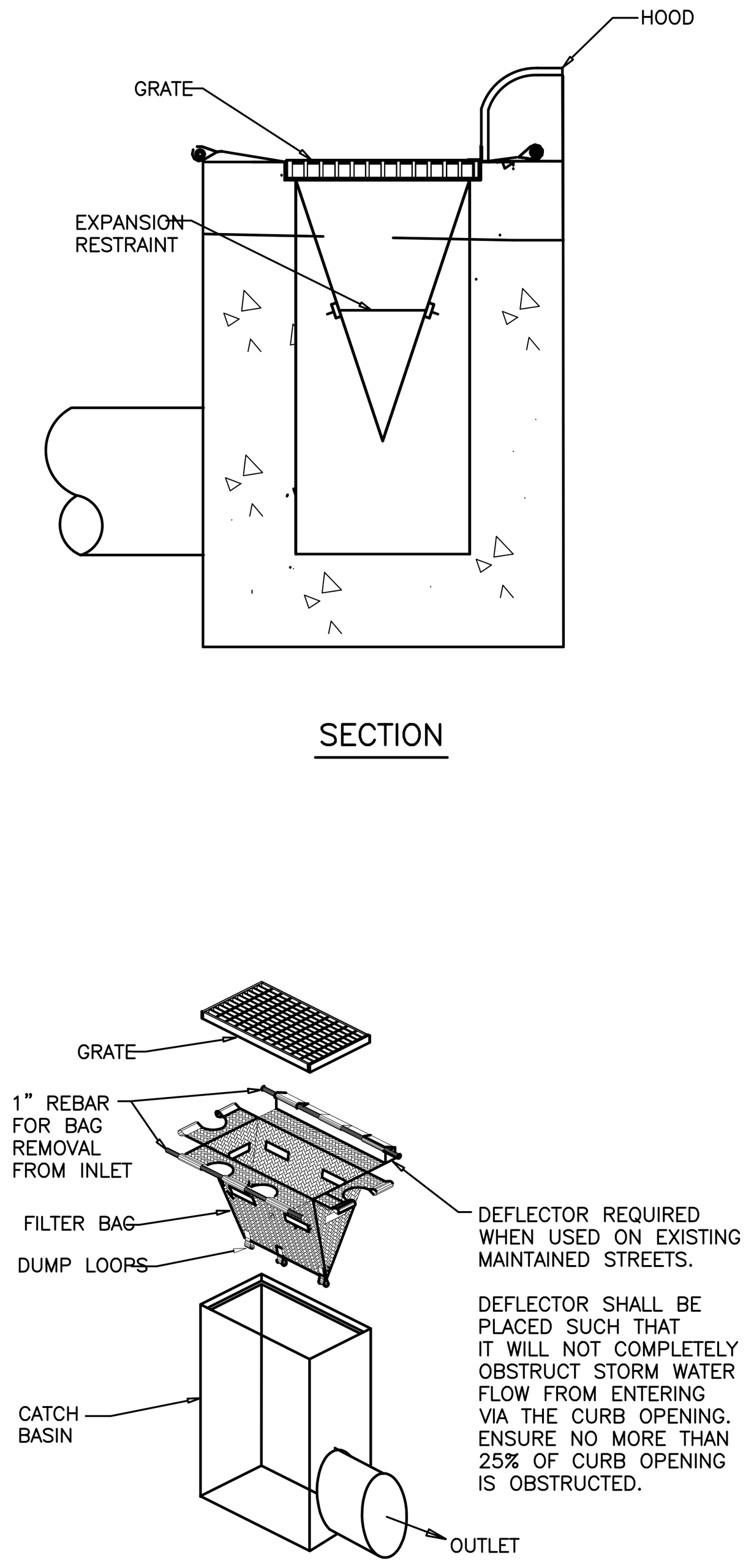
SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

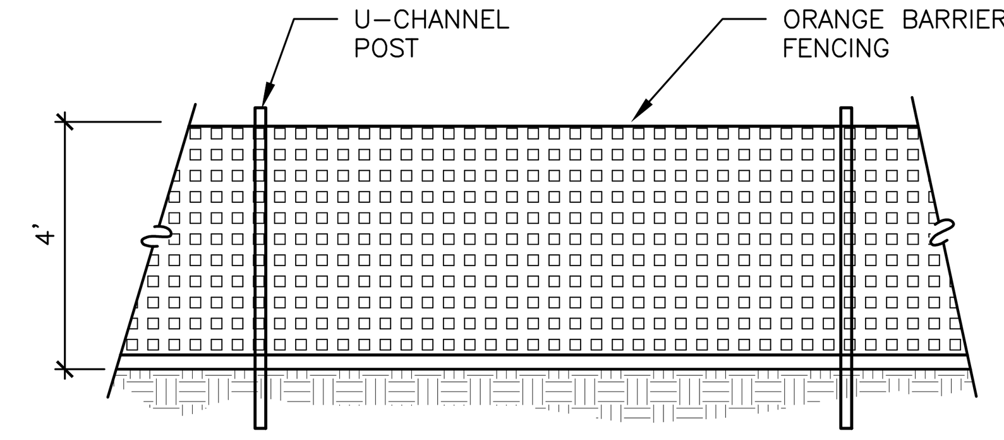
TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

2 Seeding Specifications for Temporary Erosion Control
NCDEQ STD. 6.10



NOTES:
1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
2. FILTER TYPES SHALL BE APPROVED BY THE INSPECTOR PRIOR TO INSTALLATION.
3. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
4. FILTER BAGS SHALL BE REMOVED PRIOR TO STREET ACCEPTANCE AND/OR CLOSE OUT OF GRADING PERMIT.
5. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
6. FILTER BAGS MAY BE INSTALLED IN EXISTING CITY OR NCDOT ROADS AS LONG AS STORM DRAINAGE IS NOT IMPEDED.

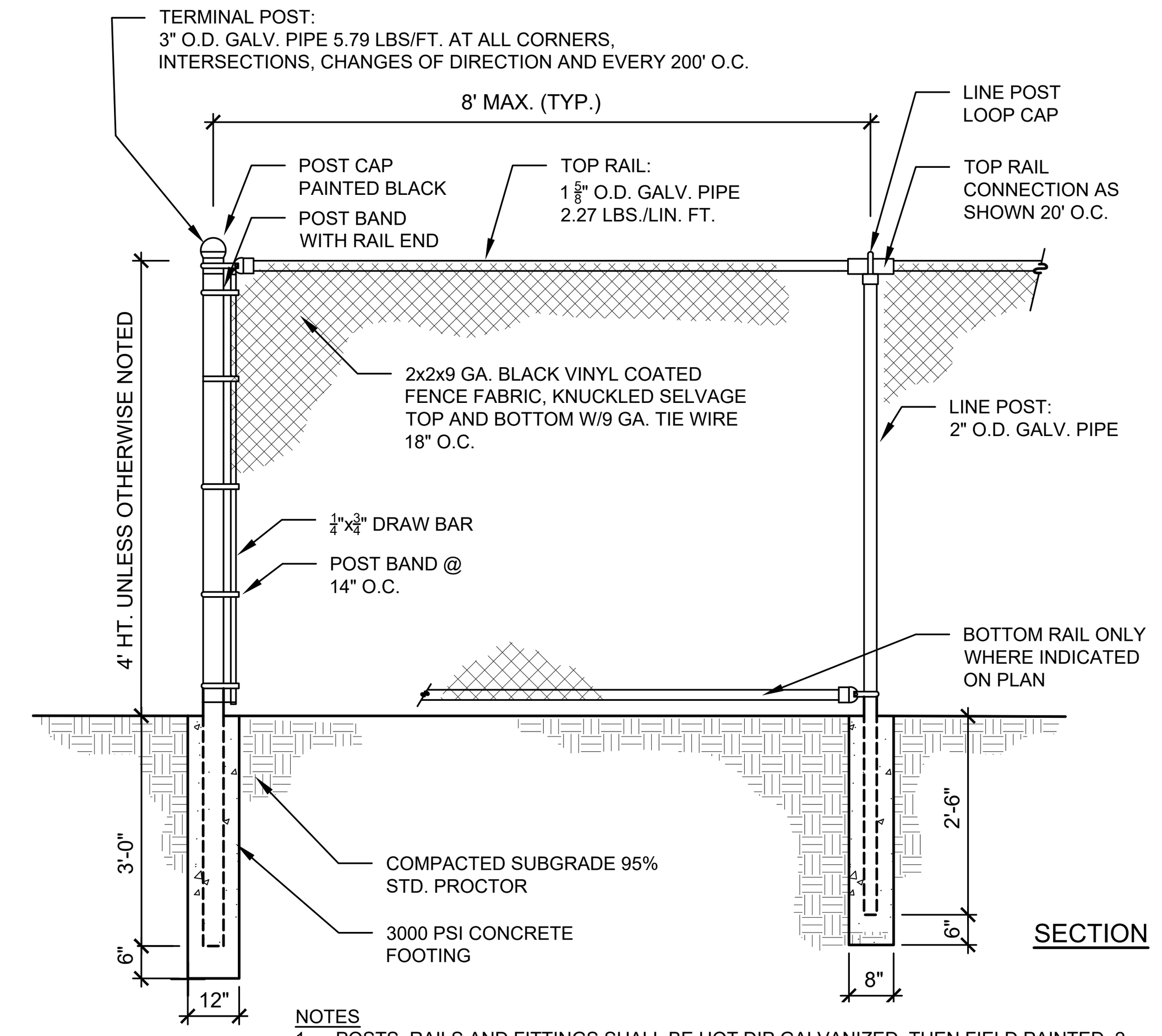
3 Silt Sack Inlet Protection
N.T.S.



NOTES

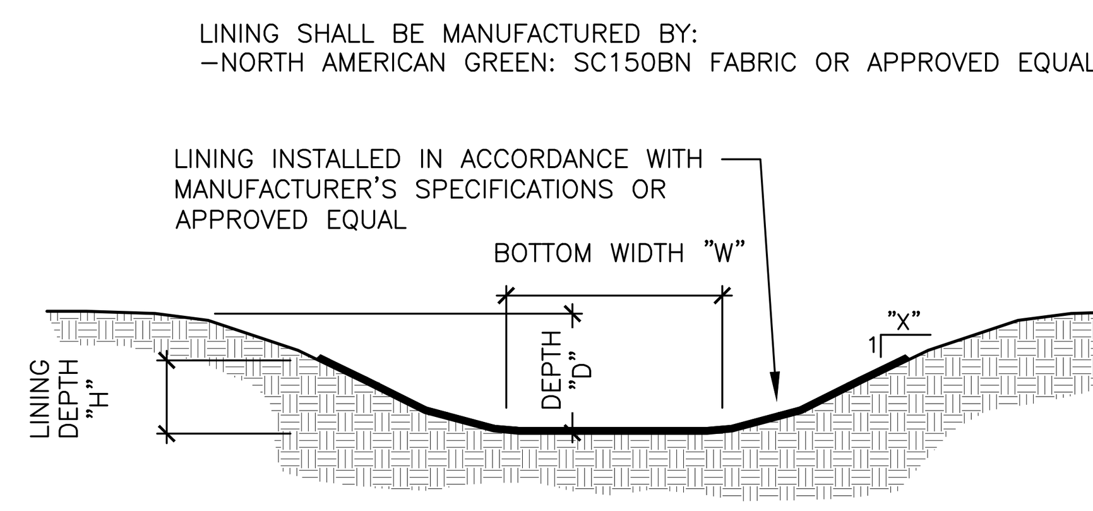
1. CONTRACTOR TO INSTALL AND MAINTAIN ORANGE BARRIER FENCING AROUND EXISTING TREES WHERE DELINEATED ON PLAN.
2. NO PARKING OF EQUIPMENT OR MATERIALS SHALL BE PERMITTED INSIDE THIS AREA.
3. MAINTAIN BARRIER FENCING THROUGH CONSTRUCTION. REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.
4. REFER TO NCDENR STANDARDS FOR GENERAL SPECIFICATIONS REGARDING TREE PROTECTION.
5. 6' MINIMUM WIDTH FOR 2" CAL. TREES OR SMALLER.
6. ONE FOOT OF LINEAR DISTANCE FROM THE TREE TRUNK FOR EACH INCH OF TRUNK DIAMETER, OR ½ HEIGHT OF THE TREE WHICHEVER IS GREATER UNLESS OTHERWISE SHOWN ON PLAN.

4 Temporary Tree Protection Barricade
N.T.S.



NOTES
1. POSTS, RAILS AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN FIELD PAINTED, 2 COATS OF BLACK ENAMEL AFTER INSTALLATION, PRIOR TO INSTALLING FENCE FABRIC.
2. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.

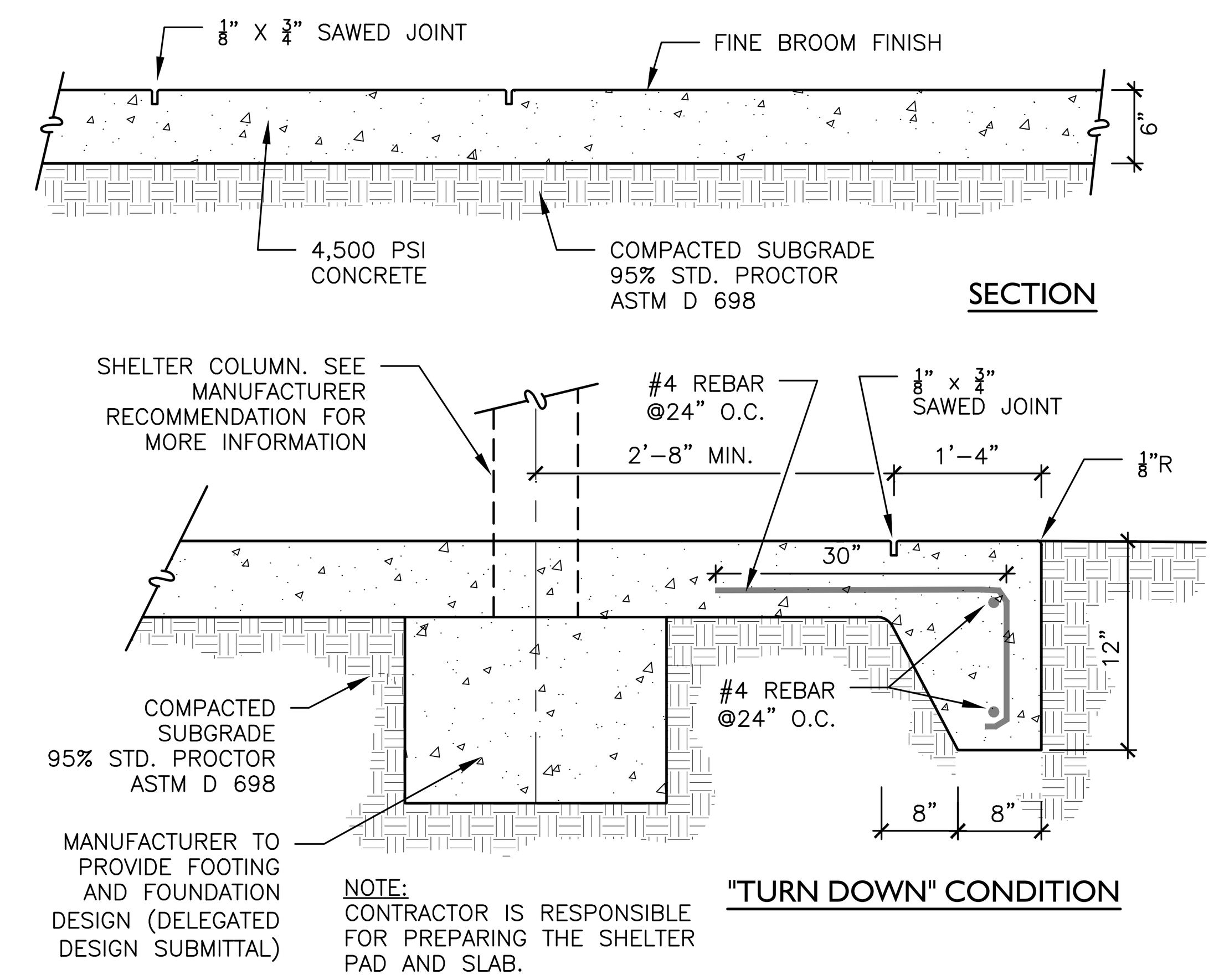
6 Vinyl Coated Chain Link Fence Detail
N.T.S.



CHANNEL SCHEDULE

DRAINS TO	TYPE	BOTTOM	DEPTH	SIDE SLOPE (LT:RT)	LINING (TEMP / PERM)
FRONT OF STAGE	V-DITCH	0	1	2:2	SC150BN / SOD
BACK OF SIDEWALK	V-DITCH	0	1	2:2	SC150BN / SOD

5 Grass-Lined Swale
N.T.S.



NOTE:
CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SHELTER PAD AND SLAB.

10 Shelter Concrete Pad
N.T.S.

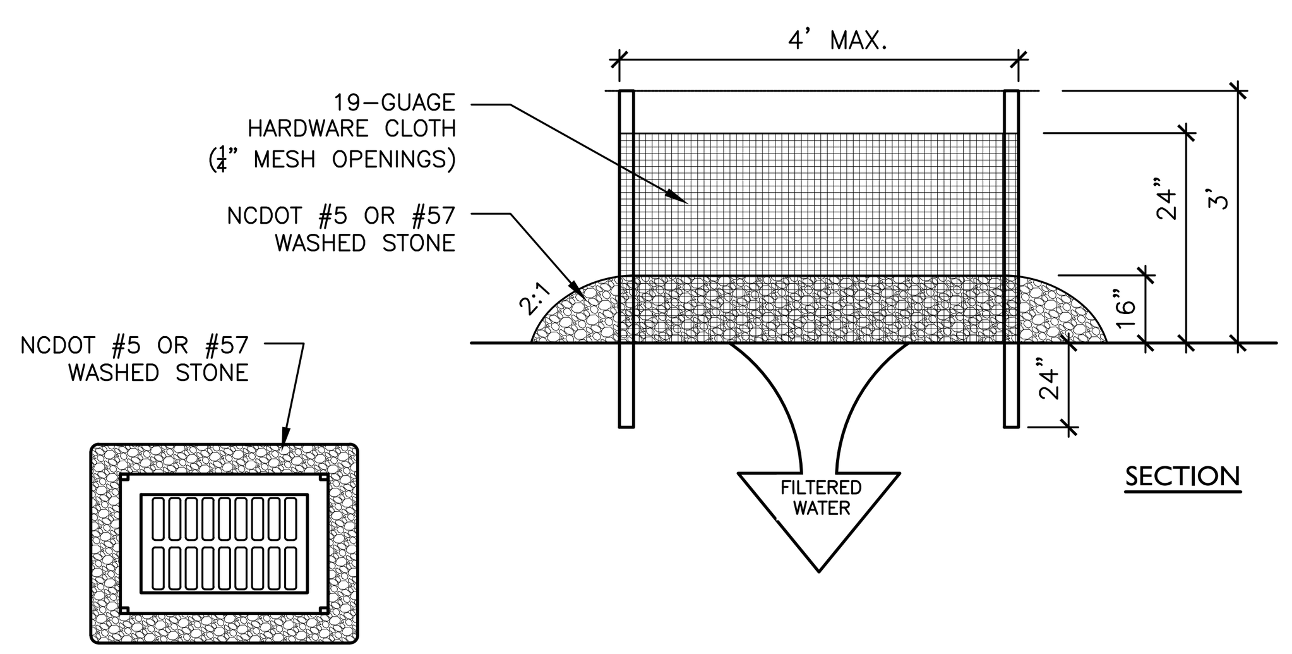


FIGURE 6.51A HARDWARE CLOTH AND GRAVEL INLET PROTECTION PLAN

CONSTRUCTION SPECIFICATIONS

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING INLET.
2. DRIVE 5–FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2–FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT#5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE

INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

REFERENCES

INLET PROTECTION
6.52, BLOCK AND GRAVEL INLET PROTECTION
6.54, ROCK DOUGHNUT INLET PROTECTION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS AND STRUCTURES

7 Hardware Cloth and Gravel Inlet Protection
NCDEQ STD. 6.51

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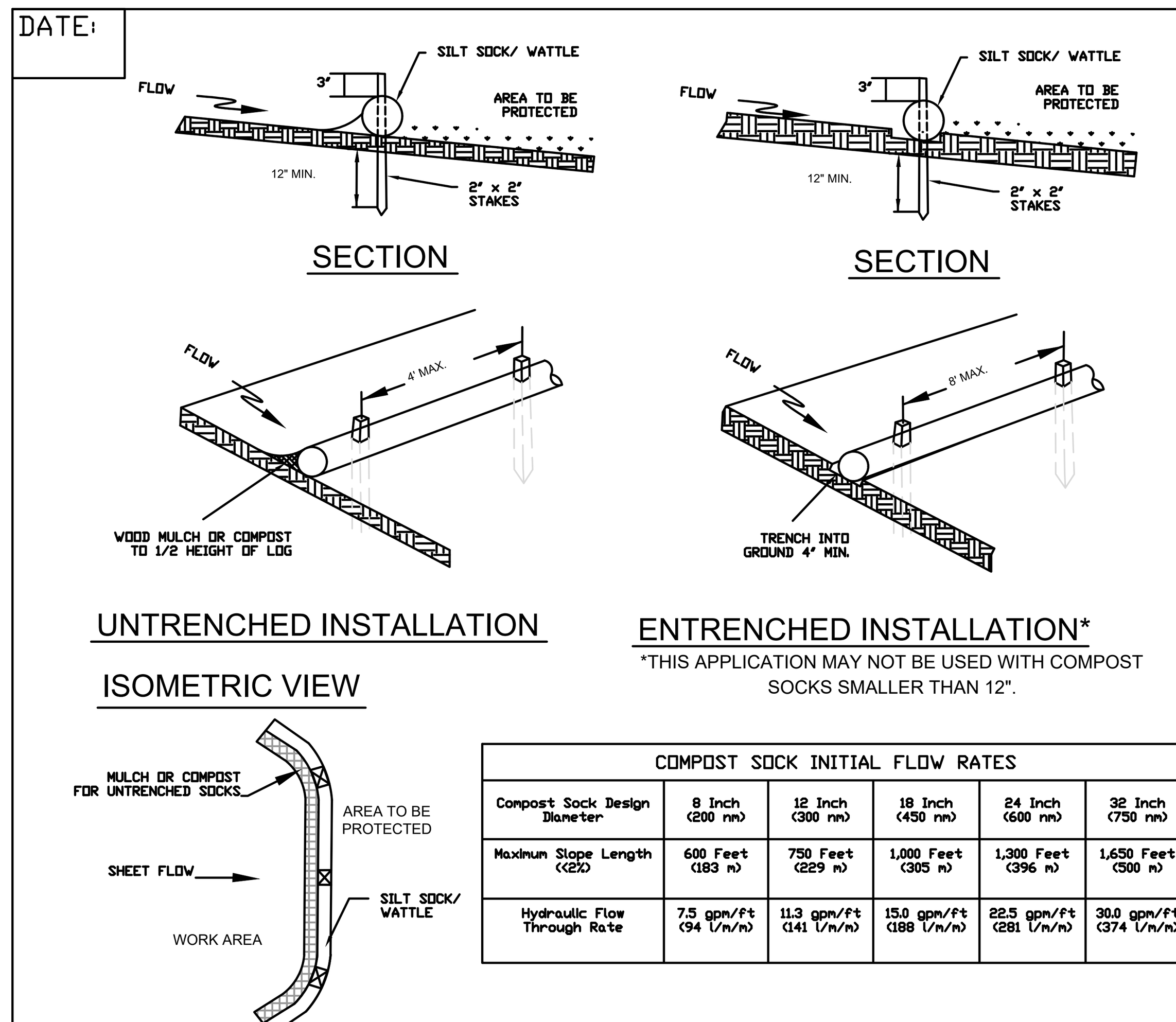

NOTE:
1. Other materials providing equivalent protection against erosive velocities may be substituted for compost use in silt socks or wattles.
2. Fill silt sock/wattle netting uniformly with compost to the desired length such that logs do not deform.
3. Silt sock/Wattle(s) should be installed parallel to and a minimum of 10 feet beyond the toe of a graded slope. Silt Sock/Wattle(s) located below flat areas should be located at the edge of the land disturbance. The ends of the silt sock/wattle(s) should be turned slightly upslope to prevent runoff from going around the end of the silt sock/wattle(s).
4. Oak or other durable hardwood stakes with a 2 inch x 2 inch cross section should be driven vertically plumb, through the center of the silt sock/wattle. Stakes should be placed at a maximum interval of 4 feet or a maximum interval of 8 feet if the silt sock/wattle is placed in a 4 inch trench.
5. In the event staking is not possible (ie. when socks/wattles are used on pavement) heavy concrete blocks shall be used behind the silt sock/wattle to hold it in place during runoff events.

COMPOST SOCK INITIAL FLOW RATES

Compost Sock Design Diameter	8 Inch (200 nm)	12 Inch (300 nm)	18 Inch (450 nm)	24 Inch (600 nm)	32 Inch (750 nm)
Maximum Slope Length (<2%)	600 Feet (183 m)	750 Feet (229 m)	1,000 Feet (305 m)	1,300 Feet (396 m)	1,650 Feet (500 m)
Hydraulic Flow Through Rate	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater.
2. Remove accumulated sediment and any debris as needed to allow for adequate flow.
3. Silt sock/Wattle must be replaced if clogged or torn.
4. If ponding becomes excessive, the silt sock/wattle may need to be replaced with a larger diameter or a different measure.
5. Reinstall if damaged or dislodged.
6. Silt socks/wattles shall be inspected until land disturbance is compete and the area above the measure has been permanently stabilized.

DEQ
SILT SOCK / WATTLE FOR PERIMETER AND INLET PROTECTION
Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

8 Silt Sock
NCDEQ STD. 6.67

Date:
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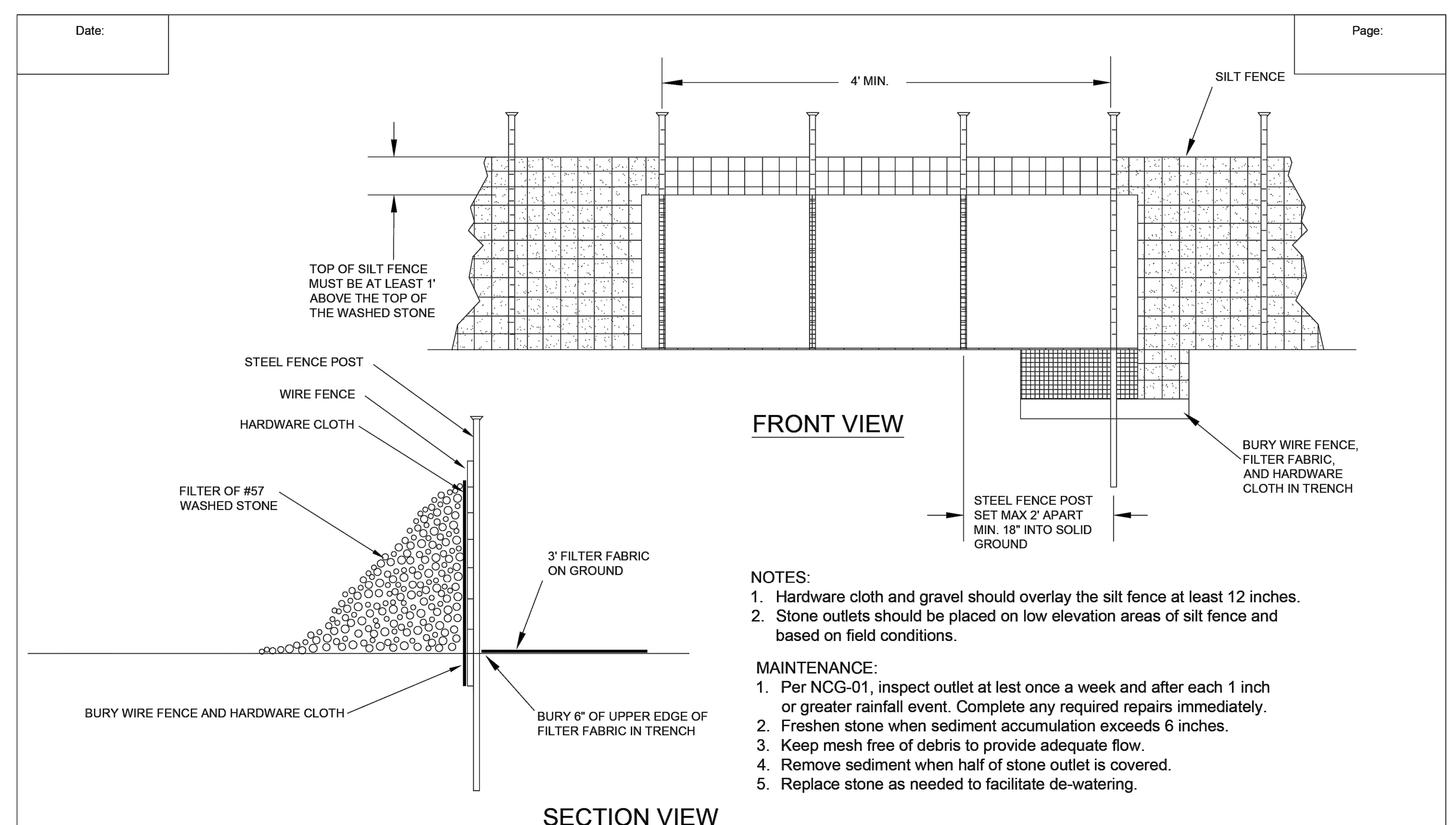

NOTES:
1. Hardware cloth and gravel should overlay the silt fence at least 12 inches.
2. Stone outlets should be placed on low elevation areas of silt fence and based on field conditions.

MAINTENANCE:
1. Per NCG-01, inspect outlet at lest once a week and after each 1 inch or greater rainfall event. Complete any required repairs immediately.
2. Freshen stone when sediment accumulation exceeds 6 inches.
3. Keep mesh free of debris to provide adequate flow.
4. Remove sediment when half of stone outlet is covered.
5. Replace stone as needed to facilitate de-watering.

NORTH CAROLINA Environmental Quality

SILT FENCE OUTLET

9 Silt Fence Outlet
N.T.S.

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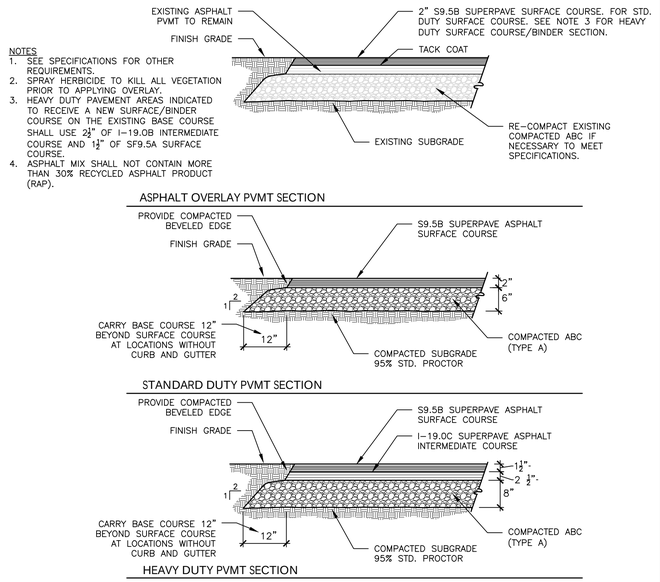
Seals
Signed by: Morgan Woolner
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053444 MORGAN R. WOOLNER
8/25/2026
Corp. NC license: F-1320

Miracle of Hickory Park Modifications
1515 12th Street Dr NW
Hickory, North Carolina

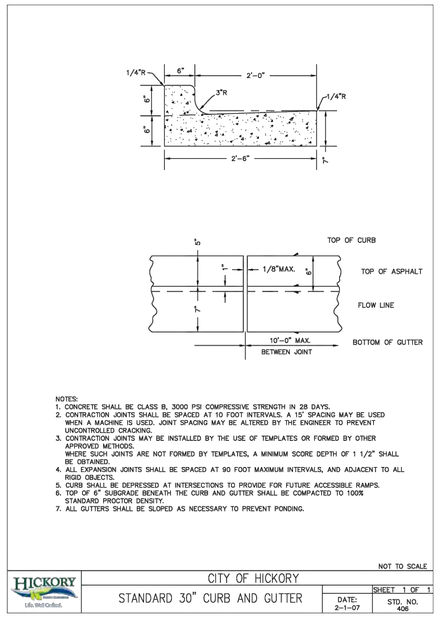
Project no: 1726.500007.00
Date: 07.17.26
Revisions:

Sheet Title:
DETAILS

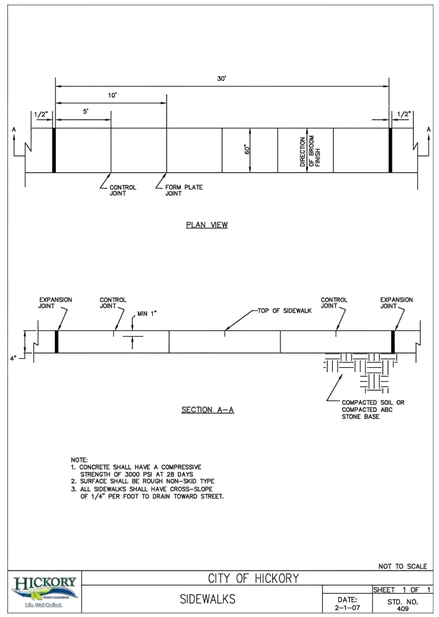
Sheet No:
C500



1 Asphalt Pavement Detail
N.T.S.



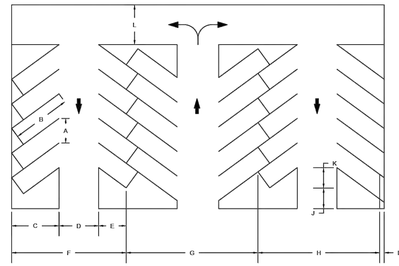
2 Curb and Gutter
City of Hickory STD. 406



3 Concrete Sidewalk Detail
City of Hickory STD. 409

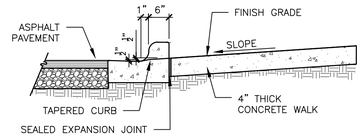
Minimum Parking Standards						
Dimensional Feature (all dimensions in feet)	Diagram	Parking Angle				
		0	45	60	75	90
Stall width (parallel to aisle)	A	9.0	12.7	10.4	9.3	9.0
Stall length	B	24.0	27.0	23.2	20.4	18.0
Stall length of line	C	9.0	19.1	20.1	19.7	18.0
Aisle width between stall lines	D	12.0	13.0	16.0	22.0	26.0
Stall depth, interlock	E	9.0	12.7	15.6	17.4	18.0
Module, wall to interlock	F	30.0	44.8	61.7	59.1	62.0
Module, interlocking	G	30.0	44.8	51.7	59.1	62.0
Module, interlock to curb face	H	30.0	49.7	64.4	59.4	62.0
Bumper overhang (typ.)	I	0.0	1.5	1.8	2.0	2.0
Offset	J	-	8.4	1.2	5.3	0.0
Setback	K	24.0	12.7	9.0	4.7	0.0
Cross-aisle, one-way	L	26.0	26.0	26.0	26.0	26.0
Cross-aisle, two-way	-	26.0	26.0	26.0	26.0	26.0

NOTES
1. All curves should have a minimum radius of 3'

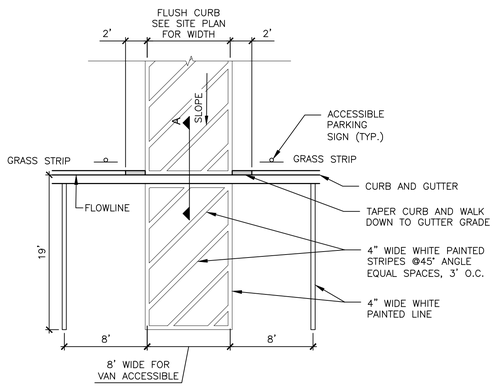


NOT TO SCALE
HICKORY
CITY OF HICKORY
MINIMUM PARKING STANDARDS
DATE: 09-05-24
SHEET 1 OF 1
STD. NO. 316

4 Parking Standards
City of Hickory STD. 316



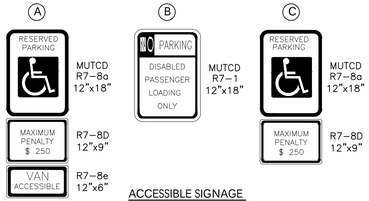
ACCESSIBLE RAMP SECTION A-A



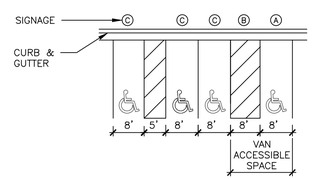
PLAN

NOTES
1. RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 1:12.
2. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA.
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.
4. COORDINATE CONSTRUCTION TO COMPLY WITH LOCAL AND FEDERAL ADA STANDARDS.
5. ALL 12"x18" ACCESSIBLE SIGNS (R7-8a AND R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
6. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
7. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.

5 Accessible Parking/Signage/Striping Detail
N.T.S.

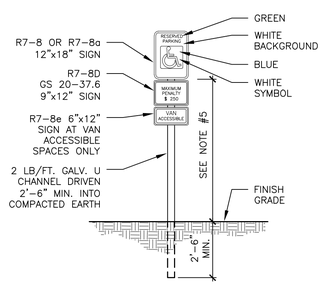


ACCESSIBLE SIGNAGE

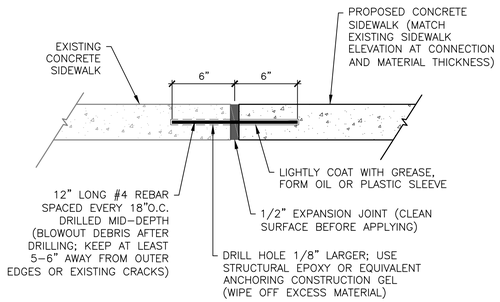


ONE OUT OF EVERY EIGHT (8) ACCESSIBLE SPACE, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE

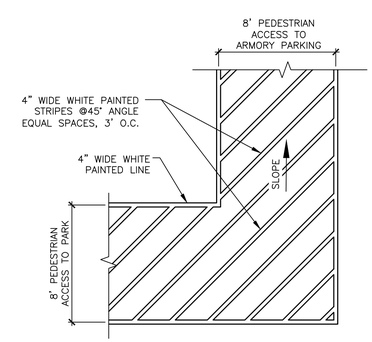
PARKING SPACE PAVEMENT MARKINGS



ACCESSIBLE SIGNAGE ELEVATION



3A Concrete Sidewalk Connection
N.T.S.



6 Accessible Striping
N.T.S.

NOTE:

PREFERRED SHADE STRUCTURE: USASHADE SINGLE POST PYRAMID CANTILEVER SHADE STRUCTURE. IF OTHER STRUCTURE, IT SHALL MATCH ON-SITE SHADE STRUCTURE AND MUST BE APPROVED BY CITY OF HICKORY.

7 Shade Structure
N.T.S.

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

Corp. NC license: F-1320

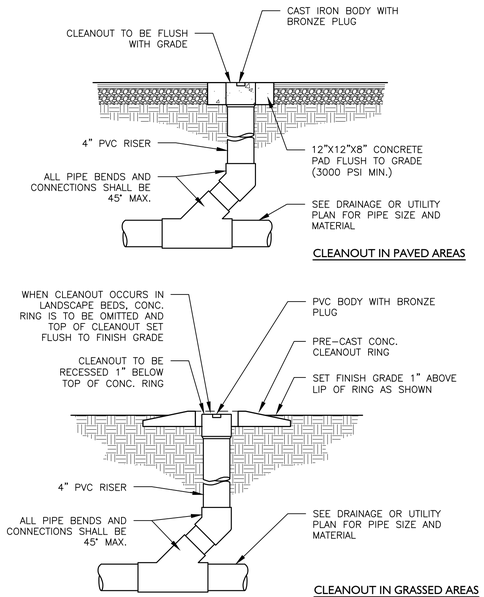
Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:

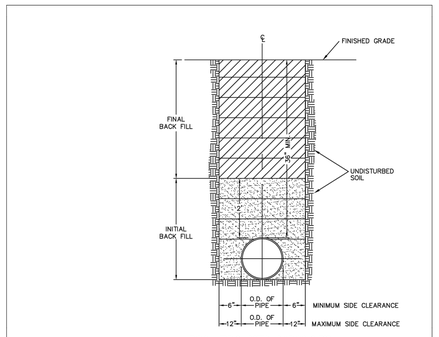
Sheet Title:
DETAILS

Sheet No:
C501



NOTE: ENGRAVE "SS" IN SANITARY SEWER PLUG AND ENGRAVE "SD" IN STORM DRAIN PLUG.

1 Cleanout
N.T.S.



DEPTH OF BEDDING MATERIAL BELOW PIPE

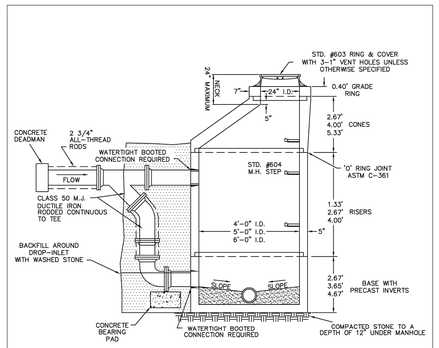
D	d (MIN.)
27" & SMALLER	6"
30" – 60"	12"
66" & LARGER	18"

NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 2" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE MATERIAL.
4. BACKFILL SHALL BE COMPACTED IN 6" LAYERS IN TRAFFIC AREAS, 12" LAYERS IN NON-TRAFFIC AREAS USING VIBRATORY EQUIPMENT.
5. ALL BACKFILL TO A HEIGHT OF 12" OVER PIPE TO BE COMPACTED BY MANUAL MEASURES.

NOT TO SCALE

CITY OF HICKORY		
SEWER LINE TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 602

2 Sewer Line Trench and Backfill
City of Hickory STD. 602



SANITARY SEWER DROP MANHOLE DETAIL

NOTES:
1. ON NEW INSTALLATION, A MAXIMUM OF 2 GRADE RINGS SHALL BE USED.
2. CONCRETE SHALL BE 4000 PSI AS PER ASTM C-478.
3. STEEL REINFORCING SHALL MEET ASTM C-185 FOR 4" DIAMETER, OR ASTM C-478 FOR 5" DIAMETER.
4. MANHOLES OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1'-3" ON CENTER. STEPS SHALL BE IN ACCORDANCE WITH STANDARD NO. 603.
5. INVERT SHALL HAVE 0.20' OF FALL UNLESS OTHERWISE SPECIFIED.

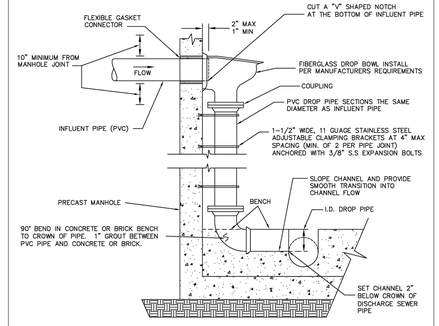
MANHOLE DIAMETER VS. PIPE DIAMETER
4'-0" = 27" PIPE MAXIMUM
5'-0" = 36" PIPE MAXIMUM
6'-0" = ABOVE 36" PIPE

NOT TO SCALE

CITY OF HICKORY		
SANITARY SEWER DROP MANHOLE	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 604

3 Sanitary Sewer Drop Manhole (Outside)
City of Hickory STD. 604

NOTES
1. ONLY ONE INSIDE DROP CONNECTION PER MANHOLE WILL BE ALLOWED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. THE DROP BOWL SHALL NOT EXTEND INTO THE AREA AS DEFINED BY THE PROJECTION OF THE MANHOLE ENTRANCE VERTICALLY DOWN TO THE MANHOLE BOTTOM. IF NECESSARY, MANHOLE FRAME, COVER CONE SECTION, AND STEPS SHALL BE REMOVED AND PLACED TO ALLOW FOR UNOBSTRUCTED ENTRY AND EXIT.
3. INFLUENT PIPE SLOPE SHALL NOT EXCEED 10%.
4. MAXIMUM SIZE OF INFLUENT PIPE IS 12".

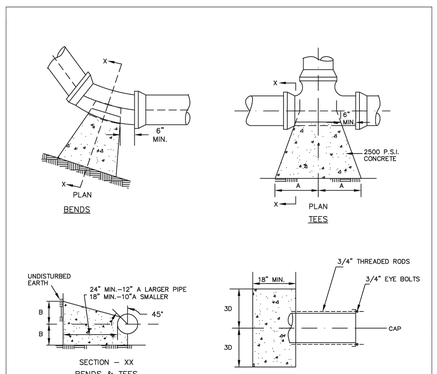


INSIDE DROP CONNECTION FOR PRECAST CONCRETE MANHOLES (FIBERGLASS DROP BOWL)

NOT TO SCALE

CITY OF HICKORY		
INSIDE DROP CONNECTION FOR PRECAST CONCRETE MANHOLE (FIBERGLASS DROP BOWL)	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 614

4 Sanitary Sewer Drop Manhole (Inside)
City of Hickory STD. 614



NOTES:
1. DEAD MAN RESTRAINED W/ 2-3/4" ALL THREAD RODS 3' TO 8" AND 4-3/4" ALL THREAD RODS 12" TO 16"

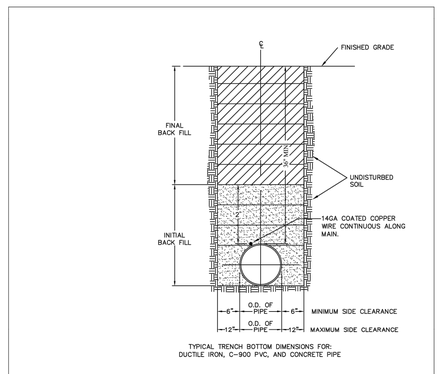
PIPE SIZE	11 1/4° BEND		22 1/2° BEND		45° BEND		90° BEND		TEE	
	C	B	C	D	A	B	A	B	A	B
6	9	10	12	10	16	10	20	10	10	12
8	12	13	16	13	22	13	26	13	13	16
12	16	21	22	21	28	21	32	21	18	24
16	21	27	30	27	36	27	44	27	24	32

ALL DIMENSIONS IN TABLE ARE IN INCHES.
NOTE: WHERE WORKING PRESSURES EXCEED 150 PSI. AWWA STANDARDS SHALL APPLY.

NOT TO SCALE

CITY OF HICKORY		
THRUST BLOCK FOR WATER MAINS (150 PSI WORKING PRESSURE)	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 504

5 Thrust Block
City of Hickory STD. 504



DEPTH OF BEDDING MATERIAL BELOW PIPE

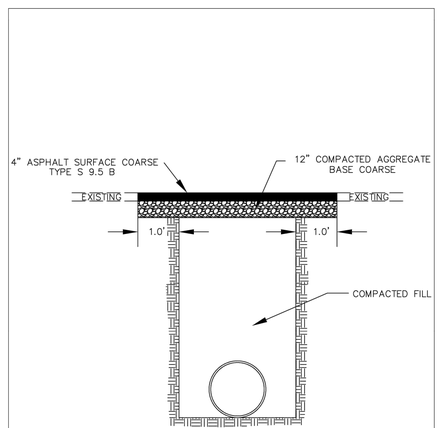
D	d (MIN.)
27" & SMALLER	6"
30" – 60"	12"
66" & LARGER	18"

NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 2" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILLED MATERIAL SHALL BE SUITABLE MATERIAL.
4. BACK FILL SHALL BE COMPACTED IN 6" LAYERS IN TRAFFIC AREAS, 12" LAYERS IN NON-TRAFFIC AREAS USING VIBRATORY EQUIPMENT.

NOT TO SCALE

CITY OF HICKORY		
WATER LINE TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 508

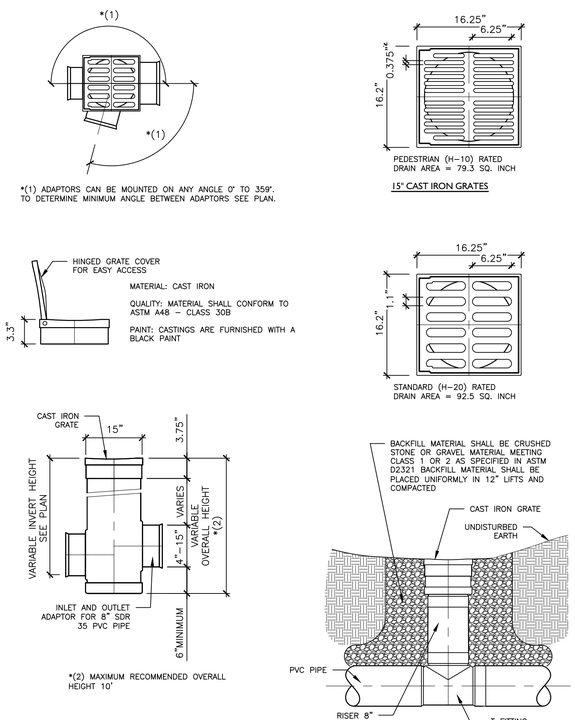
6 Water Line Trench and Backfill
City of Hickory STD. 508



NOT TO SCALE

CITY OF HICKORY		
ROAD PATCH AND REPAIR	SHEET 1 OF 1	
	DATE: 2-1-07	STD. NO. 519

7 Road Patch and Repair
City of Hickory STD. 519



8 15" Area Drain Detail
N.T.S.

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

NORTH CAROLINA PROFESSIONAL SEAL 049751 ENGINEER Gregory Brannon

Corp. NC license: F-1320

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.17.26
Revisions:

Sheet Title:

DETAILS

Sheet No:

C502

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GENERAL PLUMBING SPECIFICATIONS

CAST IRON SOIL, WASTE AND VENT PIPING: WASTE PIPING P.V.C. SHALL BE D.W.V. SCHEDULE 40 SOLID CORE PIPE

GRADE WASTE PIPING 1/4 INCH PER FOOT (MIN) FOR PIPIE SIZES 2–1/2" OR LESS. FOR PIPE SIZES 3" TO 6", GRADE 1/8 INCH PER FOOT (MIN), 8" OR LARGER PIPE, GRADE MIN 1/16 INCH PER FOOT. ALL VENT PIPING SHALL BE GRADED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. REFER TO TABLE 704.1 OF THE NC PLUMBING FOR MINIMUM SLOPE REQUIRED.

WATER PIPING: ALL WATER PIPING 3" AND SMALLER SHALL BE TYPE "K" (UNDER GROUND) OR TYPE "L" (ABOVE GROUND) COPPER TUBING WITH FORGED FITTINGS AND SWEAT CONNECTIONS. DIELECTRIC UNIONS, EPCO SALES, INC., SERIES FX SHALL BE INSTALLED BETWEEN COPPER PIPE AND WATER HEATER. ALL FITTINGS SHALL BE SWEAT TYPE WROUGHT COPPER WITH WALL THICKNESS EQUAL TO PIPE WALL THICKNESS. ALL JOINTS SHALL BE MADE WITH 95–5 SOLDER OR SILVABRITE 100. NO SOLDER W/LEAD SHALL BE PERMITTED.

ALL ROUGHING–IN PIPING SHALL BE RUN CONCEALED. ALL EXPOSED WATER LINES, STOPS, TRAP AND WASTE PIPE AT THE FIXTURES SHALL BE CHROME PLATED BRASS, WHICH FOR THE MOST PART WILL BE FURNISHED WITH THE FIXTURES. CHROME PLATED ESCUTCHEON RINGS SHALL BE USED AT EACH POINT OF ENTRANCE OF CHROME PIPING INTO WALLS, FLOORS, OR CEILINGS. EXPOSED WORK SHALL BE UNIFORM IN HEIGHT AND LOCATION FOR EACH TYPE FIXTURE.

WATER PIPING UNDER GROUND OUTSIDE OF BUILDING SHALL BE AT LEAST 36 INCHES BELOW THE FINISHED GRADE SURFACE.

CPVC AND PEX WATER PIPING IS ALSO ACCEPTED AS ALLOWED BY THE PLUMBING CODE.

THERMAL INSULATION: ALL HOT AND COLD WATER PIPING INSIDE BUILDING AND IN CRAWL SPACE, ALL HOT WATER PIPING BELOW GRADE, AND COLD WATER PIPING BELOW GRADE WITHIN 3'–0" OF OUTSIDE SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" OR IMCOA WITH SEALED JOINTS OR PREMOLDED FIBERGLASS WITH VAPOR BARRIER JACKET.

SUBMITTAL: THE CONTRACTOR SHALL WITHIN (15) DAYS OF RECEIPT OF PROPERLY SIGNED CONTRACT SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL (5) COPIES OF A LIST OF SUPPLIES AND MANUFACTURER'S MATERIAL AND EQUIPMENT TO BE USED ON THIS PROJECT.

SUBSTITUTION OF MATERIALS AND/OR EQUIPMENT FOR THAT SPECIFIED WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO RECEIPT OF BIDS.

GENERAL: THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2018 N.C. STATE PLUMBING CODE. SUBMIT THREE (3) COPIES OF PLUMBING INSPECTION CERTIFICATES TO OWNER. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR WORK DONE UNDER THIS CONTRACT. PROVIDE AND INSTALL ALL SUPPORTS, BRACKETS, MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND ACCEPTABLE PLUMBING SYSTEM. PLUMBING CONTRACTOR SHALL CLEAN ALL PLUMBING FIXTURES AFTER ALL CONSTRUCTION IS COMPLETE.

GUARANTEE: THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER STATING THE DAY THE GUARANTEE BEGINS AND ENDS.

WATER HAMMER CONTROL: ARRESTORS SHALL BE SIZED AND APPLIED IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI–WH–201.
EQUIPMENT EQUAL TO JOSAM #75000 OR EQUAL BY AMTROL, WADE, SIOUX CHIEF OR SMITH IS ACCEPTABLE.
PROVIDE "KARP" ACCESS COVER IN WALL TO SERVICE WATER HAMMER ARRESTORS.

FIXTURE SCHEDULE:

SEE DRAWINGS.

CLEANOUTS: <S>

CLEANOUTS SHALL BE AS FOLLOWS:

FLOOR CLEANOUTS – IN FINISHED AREAS – JOSAM #5500–1–SQ WITH SQARE NICKEL BRONZE TOP

- IN TILE FLOORS –JOSAM #5500–1–SQ
- IN CARPETED FLOORS –JOSAM #5#5500–1–SQ

WALL CLEANOUTS – JOSAM #58710 WITH STAINLESS STEEL COVERPLATE

CLEANOUTS IN EXPOSED PIPING – JOSAM #58900

EXTERIOR CLEANOUTS – JOAM # 56050 W/ROUND NICKEL BRONZE TOP

CLEANOUTS IN WATERPROOF FLOOR SHALL HAVE FLASHING FLANGE AND CLAMPING DEVICE.

CLEANOUTS IN CARPETED AREAS SHALL BE PROVIDED WITH CARPET MARKERS.

DOMESTIC WATER HEATERS: <S>

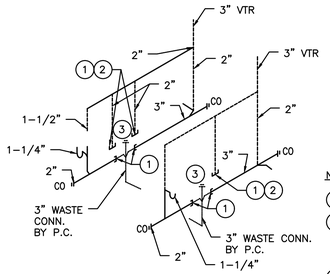
ELECTRIC WATER HEATERS SHALL BE UL LISTED AND COMPLETE WITH ALL STANDARD FEATURES, FIVE (5) YEAR TANK WARRANTY, GLASS–LINED TANK, FOAM INSULATION ON THE TANK, ANODE ROD, AUTOMATIC TEMPERATURE CONTROL, AND AUTOMATIC HIGH–LIMIT SAFETY CUTOFF.

EACH WATER HEATER SHALL BE PROVIDED WITH AN ASME AND NORTH CAROLINA APPROVED PRESSURE AND TEMPERATURE RELIEF VALVE. UNITS NOT INSTALLED WITH VACUUM BREAKER ON COLD WATER SUPPLY LINE SHALL BE PROVIDED WITH AGA CERTIFIED VACUUM RELIEF VALVE PER ANSI Z21.22. A GATE VALVE SHALL BE INSTALLED ON SAME FLOOR AS UNIT AND NO FURTHER THAN 3 FEET ON THE COLD WATER SUPPLY.

EACH WATER HEATER AND ITS INSTALLATION SHALL COMPLY WITH THE LATEST ISSUE AND ALL ADDENDA THERETO OF THE N. C. STATE BOILER INSPECTION LAWS AND REGULATIONS. ALL WIRING AND CONTROLS ASSOCIATED WITH THE HEATERS SHALL BE U.L. APPROVED AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

EACH HEATER TANK SHALL BE FITTED WITH NORTH CAROLINA APPROVED "DIP" TUBE AND LABELED TO SHOW APPROVAL FOR INSTALLATION IN THE STATE OF NORTH CAROLINA.

DISCHARGE RELIEF VALVE FROM EACH WATER HEATER SHALL BE PIPED FULL SIZE TO WITHIN FOUR (4) INCHES OF THE FLOOR OVER A FLOOR DRAIN, DRIP PAN OR OTHER SAFE LOCATION. DISCHARGE PIPE SHALL BE SUPPORTED AND ANCHORED SO THAT IT WILL NOT PUT UNDUE STRAIN ON THE RELIEF VALVE BODY OR MOUNTING COUPLING.

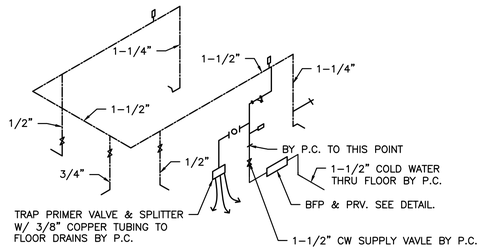


NOTES:

1. P.C. TO EXTEND TO THIS POINT.
2. 2" VENT FOR FLOOR DRAINS. PC. TO EXTEND VENT PIPING TO THIS POINT. CAP UNUSED VENT.
3. CO BY P.C.

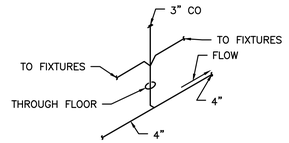
A WASTE & VENT RISER DIAGRAM

SCALE: NONE



B WATER PIPING DIAGRAM

SCALE: NONE



C WASTE CONNECTION BY P.C.

SCALE: NONE

NOTES:

1. 3" WASTE UP THROUGH FLOOR.
2. 2" VENT PIPING FOR FLOOR DRAINS. TIE INTO VENT PIPING BY P.C.
3. WATER CONNECTION FROM TRAP PRIMER TO FLOOR DRAINS. VERIFY LOCATION FOR TRAP PRIMER BY P.C.

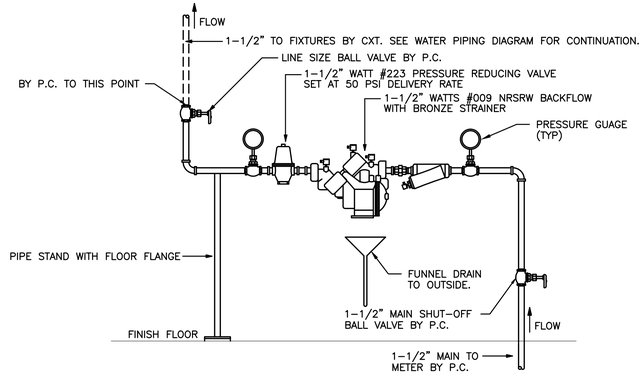
PLUMBING FIXTURE SCHEDULE

NOTE: ALL FIXTURE APPURTENANCES SHALL BE SUPPLIED BY FIXTURE MANUFACTURER.

FIXTURE SYMBOL	FIXTURE TYPE	FIXTURE DESCRIPTION	CONNECTION SIZES			
			W	V	CW	HW
FD	FLOOR DRAIN	FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR.	2"	2"	1/2"	
TP	TRAP PRIMER	TRAP PRIMER VALVE WITH SPLITTER PROVIDED BY PLUMBING CONTRACTOR.			1/2"	

ACCEPTABLE MANUFACTURERS:

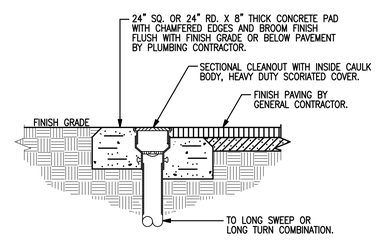
WATER CLOSETS, URINALS, LAVATORIES – SLOAN, KOHLER, AMERICAN STANDARD, TOTO, ZURN, GERBER,
CARRIERS – WADE, SMITH, ZURN, MIFAB.
SINKS – KOHLER, AMERICAN STANDARD, JUST, ELKAY, AMERICAN STANDARD, ZURN, CECO, SLOAN.
FLOOR DRAINS, ROOF DRAINS, FLOOR SINKS – WADE, SMITH, ZURN, JOSAM, SIOUX CHIEF, WATTS DRAINAGE, MIFAB.
FLUSH VALVES – SLOAN, ZURN, HYDROTEK, TOTO.
RECIRCULATION PUMP – BELL & GOSSETT, TACO, GRUNDFOS
FAUCETS – DELTA, SLOAN, SYMMONS, T&S, AMERICAN STANDARD, MOEN, CHICAGO FAUCETS, ZURN.
MIXING VALVES – SYMMONS, LAWLER, WATTS, BRADLEY, POWERS.



D WATER PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER STATION BY P.C.

SCALE: NONE

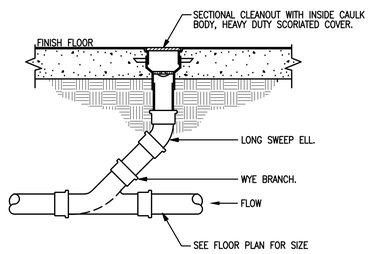
NOTE:
P.C. TO COORDINATE W/ G.C. SHOP DRAWINGS FROM CXT.



NOTE:
OMIT CONCRETE PAD IF C.O. IS SET IN CONC. SURFACE PROVIDED BY GENERAL CONTRACTOR.

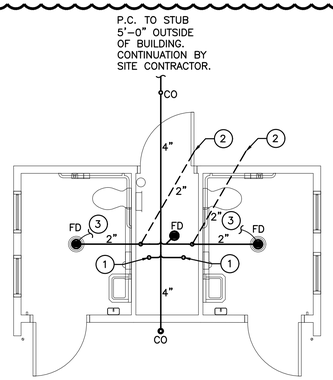
E CLEANOUT AT FINISH GRADE

SCALE: NONE



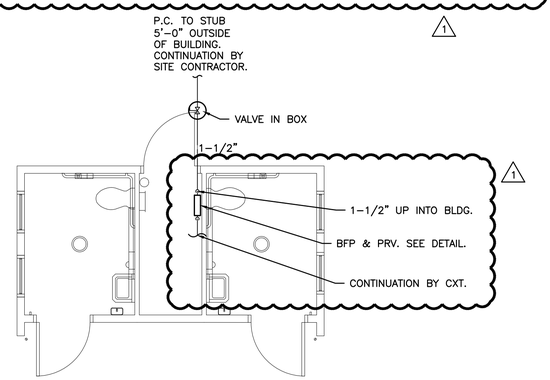
F CLEANOUT AT FINISH FLOOR

SCALE: NONE



FLOOR PLAN - WASTE

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



FLOOR PLAN - WATER

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

1 ADDENDUM #2 09/18/26

091626EHC221400

BRITTAIN ENGINEERING, INC.
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NORTH CAROLINA PROFESSIONAL SEAL 7883 ENGINEER DONALD E. BRITTAIN 25/18/26

Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:

RESTROOM FLOOR PLAN PLUMBING, SPECIFICATIONS, SCHEDLULES

Sheet No:

P1

DETAILED ELECTRICAL SPECIFICATIONS

SCOPE: FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEM IN THE BUILDING AS FURTHER DESCRIBED ON THE ELECTRICAL CONTRACT DRAWINGS.
SUPPLY ALL MATERIALS, FITTINGS AND HARDWARE NECESSARY FOR COMPLETE OPERATING SYSTEMS WITHIN THE OBVIOUS INTENT OF THE DRAWINGS. NO ATTEMPT HAS BEEN MADE TO DETAIL OR LIST EACH AND EVERY ITEM OF MATERIAL. THE ELECTRICAL CONTRACTOR IS CAUTIONED TO READ THE ENTIRE PROJECT DRAWINGS AND SPECIFICATIONS TO ASSURE HIMSELF OF A THOROUGH KNOWLEDGE OF BUILDING CONSTRUCTION, STRUCTURAL RESTRICTIONS TO ELECTRICAL CONTRACT WORK AND TO ASSURE THAT NO REFERENCE ANYWHERE IN THE PROJECT DRAWINGS AND SPECIFICATIONS TO WORK BY THE ELECTRICAL CONTRACTOR IS OVERLOOKED.

CODES, PERMITS AND INSPECTIONS: THE LATEST EDITION OF THE STATE OF NORTH CAROLINA BUILDING CODE WHICH INCLUDES THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE IS HEREBY MADE A PART OF THIS SPECIFICATION. CODE REQUIREMENTS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS WHERE THE CODE REQUIREMENTS EXCEED THAT OF THE SPECIFICATIONS. HOWEVER, THE SPECIFICATIONS SHALL BE FOLLOWED WHERE THEY EXCEED CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, OBTAIN THE SERVICES OF THE LOCAL ELECTRICAL INSPECTOR TO MAKE ALL REQUIRED DURING CONSTRUCTION AND COMPLETED ELECTRICAL SYSTEM INSPECTIONS.

MATERIALS AND WORKMANSHIP: ALL MATERIAL BUILT INTO THIS PROJECT SHALL BE NEW OF EQUIVALENT OR BETTER QUALITY THAN THAT SPECIFIED. SPECIFIC NAMES AND CATALOG NUMBERS USED HEREIN ARE TO ESTABLISH THE ITEM FUNCTION, ARRANGEMENT AND QUALITY REQUIRED AND IS IN NO WAY TO RESTRICT COMPETITION. ALL MATERIALS SHALL BE UL APPROVED/LABELED AND/OR BE APPROVED BY A THIRD PARTY TESTING AGENCY IN THE STATE OF NORTH CAROLINA FOR THE PARTICULAR APPLICATION AS USED ON THIS PROJECT.

CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER (#10 AWG AND SMALLER SHALL BE SOLID, AND #8 AWG AND LARGER STRANDED) WITH THHN/THWN INSULATION, INSTALLED IN CONDUIT. CONDUCTORS SHALL BE #12 AWG MINIMUM EXCEPT WITHIN LIGHT FIXTURES, LOW VOLTAGE CONTROLS OR COMMUNICATION/FIRE ALARM EQUIPMENT. CONDUCTOR COLOR CODE SHALL CONFORM TO THE NEC. CONDUCTORS SHALL BE CONTINUOUS FROM TERMINAL TO TERMINAL OR PULL BOX TO PULL BOX. JOINTS SHALL BE MADE WITH IDEAL "WIRENUTS." WIRING TERMINATIONS FOR ALL ELECTRICAL EQUIPMENT SHALL BE TESTED AND APPROVED FOR USE WITH 75°C RATED CONDUCTORS.

RACEWAYS: RACEWAYS SHALL BE UL APPROVED RIGID GALVANIZED STEEL WITH THREADED JOINTS OR METALLIC TUBING (EMT) WITH THREADED STEEL HEXAGONAL COMPRESSION FITTINGS – NEITHER INDENTOR TYPE OR DIE METAL FITTING WILL BE ACCEPTED. CONDUIT UNDER THE FLOOR SLAB AND UNDER GROUND OUTSIDE THE BUILDING MAY BE PVC. FITTINGS IN EMT SHALL BE WEATHER TIGHT (THOMAS AND BETTS SERIES #5123 WITH NYLON INSULATED THROATS), BENDS SHALL BE FACTORY FABRICATED OR MADE "COLD" WITH BENDING TOOL, FREE OF KINKS OR RESTRICTIONS. NO SINGLE BEND SHALL BE IN EXCESS OF 90 DEGREES. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF THREE (3) 90 DEGREE BENDS IN A GIVEN RACEWAY FROM PULL BOX TO PULL BOX. RIGID RACEWAY THREADS SHALL BE CUT STRAIGHT AND TRUE – PIPE ENDS SHALL BE REAMED AND SMOOTHED INSIDE AND OUT. SUPPORT 1–1/2 INCH AND LARGER CONDUIT 10 FEET O/C OR LESS, AND 1 INCH AND SMALLER 6 FEET O/C MAXIMUM. RACEWAYS SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH BOLTS, SCREWS, STRAPS, HANGER RODS AND BRACKETS. ALL METALLIC HARDWARE SHALL BE GALVANIZED OR CADMIUM PLATED. NAILS, WIRE AND/OR PERFORATED STRAPS WILL NOT BE ACCEPTED. USE THREADED LOCKNUTS OUTSIDE AND THREADED LOCKNUT AND BUSHING INSIDE ALL RACEWAY CONNECTIONS TO BOXES, DEVICES, PANELS AND GUTTERS. USE NON–METALLIC BUSHINGS ON ALL 1–1/4 INCH AND LARGER CONDUIT. EXPOSED CONDUIT SHALL BE RUN STRAIGHT AND TRUE PARALLEL AND PERPENDICULAR TO PRIMARY BUILDING LINES.

BOXES AND DEVICES: ALL BOXES, PANELS AND EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND SHALL NOT DEPEND ON THE FEEDER RACEWAYS FOR SUPPORT. ALL ITEMS SHALL BE CAREFULLY ALIGNED SO THAT COVERS WILL FINISH FLUSH AND STRAIGHT. ALL UNUSED KNOCKOUTS SHALL BE CLOSED WITH BLANKING DEVICES. BOXES IN CONCRETE OR MASONRY SHALL BE 3–1/2 INCH DEEP (MINIMUM) SQUARE 16 GAUGE GALVANIZED STEEL – STEEL CITY SERIES GW. BOXES INSTALLED IN WOOD PARTITIONS SHALL BE STEEL CITY 3–1/2 INCH DEEP GANGABLE SQUARE CORNER TYPE. SURFACE MOUNTED BOXES SHALL BE STEEL CITY #52151 AND/OR #52171 OR EQUAL. RECEPTACLES SHALL BE PASS & SEYMOUR 5362 SERIES OR EQUAL. SWITCHES SHALL BE PASS & SEYMOUR CBS20AC SERIES OR EQUAL. COVER PLATES SHALL BE STAINLESS STEEL (COORDINATE W/ OWNER). PULL BOXES SHALL BE 14 GAUGE GALVANIZED STEEL WITH BLANK COVER SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE. LOCATE DEVICES AND EQUIPMENT ABOVE FINISHED FLOOR AS FOLLOWS UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS:

WALL SWITCHES – 4'–0" OR TO NEAREST MASONRY COURSE JOINT.
RECEPTACLES – 1'–6" OR TO NEAREST MASONRY COURSE JOINT.
LIGHT FIXTURES – AS NOTED ON FIXTURE SCHEDULE.

GROUNDING: THE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. GREEN EQUIPMENT GROUND WIRE SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS AND IT SHALL BE SIZED PER NEC 250.122. WHERE ONLY ONE GROUND ROD IS DRIVEN AS ALLOWED BY THE EXCEPTION IN NEC ARTICLE 250.53(A)(2), THE CONTRACTOR SHALL SUBMIT A TESTING REPORT SHOWING THE ROD PROVIDES A RESISTANCE OF 25 OHMS OR LESS TO THE ENGINEER.

LIGHTING FIXTURES: LIGHTING FIXTURES AND LAMPS SHALL BE PROVIDED AND INSTALLED AS PER SCHEDULE. CATALOG NUMBERS GIVEN IN THE FIXTURE SCHEDULE INDICATE THE MINIMUM QUALITY AND PERFORMANCE REQUIRED. EQUAL FIXTURES WILL BE ALLOWED ONLY UPON APPROVAL BY ENGINEER; EQUAL FIXTURES SHALL MEET THE MINIMUM QUALITY AND PERFORMANCE OF THE SPECIFIED FIXTURE. EQUAL FIXTURES BY HUBBELL, COOPER, PHILIPS OR ACUITY SHALL BE ALLOWED. ALL FIXTURES SHALL BE CLEANED ON COMPLETION OF INSTALLATION. BALLASTS AND/OR THE FIXTURE UNIT IN WHICH THEY ARE INSTALLED SHALL HAVE UL APPROVAL FOR DIRECT CONTACT MOUNTING TO COMBUSTIBLE CEILING MATERIAL. ALL FLUORESCENT FIXTURES SHALL BE SUPPLIED WITH ELECTRONIC BALLASTS AND LED FIXTURES SHALL BE SUPPLIED WITH DIMMABLE LED DRIVERS. THE FIXTURES SHALL BE COMPLETE IN ALL RESPECTS INCLUDING PLASTER RINGS WHERE REQUIRED, END PLATES AND OTHER APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION. ALL LIGHTING FIXTURES SHALL BE SECURED TO THE CEILING STRUCTURE PER THE NEC. ADDITIONAL SUPPORT WIRES (TIE WIRES) SHALL BE INSTALLED FOR EACH LAY–IN TYPE FIXTURE. THERE SHALL BE TWO STEEL WIRES OF THE SAME TYPE AS USED TO SUPPORT THE LAY–IN CEILING TRACK. ONE WIRE AT EACH OPPOSITE CORNER OF THE FIXTURE. THE WIRES SHALL BE FASTENED TO THE BUILDING STRUCTURE. FOR FIRE RATED CEILING, FIXTURE SHALL BE SUPPORTED ON ALL FOUR CORNERS AND AS PER THE CEILING DESIGN CRITERIA, TO THE BUILDING STRUCTURE.

TESTING: CABLE INSULATION TESTING: THE CONTRACTOR SHALL MEGGER ALL BUSWAYS, CABLES AND CONTROL CONNECTIONS TO PROVE INSULATION RESISTANCE IS OF ACCEPTABLE VALUE.
EMERGENCY LIGHT TESTING: CONTRACTOR SHALL PERFORM A TEST ON EACH UNIT AFTER IT IS PERMANENTLY INSTALLED AND CHARGED FOR A MINIMUM OF 24 HOURS. BATTERY SHALL BE TESTED FOR 90 MINUTES AND IT SHALL MEET THE REQUIREMENTS OF NEC 700.12 (A). ANY UNIT WHICH FAILS THE TEST MUST BE REPAIRED OR REPLACED, AND TESTED AGAIN. A COPY OF THE TEST REPORT SHALL BE PRESENTED TO THE ENGINEER PRIOR TO FINAL INSPECTION.
TESTING DOCUMENTATION: ALL TESTS SPECIFIED SHALL BE COMPLETELY DOCUMENTED AND TURNED OVER TO THE ENGINEER WHERE REQUIRED IN THESE SPECIFICATIONS. THE TEST CERTIFICATIONS SHALL IDENTIFY THE TEST VALUES, EQUIPMENT TESTED, TIME OF DAY AND DATE OF TESTING, TEMPERATURE AT TIME OF TESTING, THE NAME OF THE ELECTRICIAN THAT CONDUCTED THE TEST, AND SIGNATURE OF PERSON RESPONSIBLE FOR THE TEST.

PANELBOARDS: PROVIDE PANELBOARDS RATED AND SIZED AS INDICATED IN THE SCHEDULE AND SHOWN ON THE PLANS EQUAL TO SQUARE D COMPANY MODEL NQ FOR SERVICES UP TO 240 VOLTS; MODEL NF FOR SERVICES UP TO 480 VOLTS; AND "I–LINE" FOR POWER DISTRIBUTION PANELS. ALL PANELBOARDS SHALL BE SUPPLIED WITH A COPPER EQUIPMENT GROUNDING BUS. CONSTRUCTION FEATURES SHALL INCLUDE MINIMUM 5" WIDE GUTTERS, DEAD FRONT CONSTRUCTION, ELECTROPLATED COPPER CURRENT CARRYING PARTS; UL LISTED TERMINALS SUITABLE FOR CONDUCTORS SPECIFIED; FLUSH FRONT HINGED "DOOR IN DOOR" WITH CYLINDER TUMBLER TYPE LOCKS (ALL KEYS ALIKE); CIRCUIT DIRECTORY AND FRAME, CODE GAUGE STEEL, GALVANIZED AND BAKED ENAMEL FINISHED. CIRCUIT BREAKERS SHALL BE BOLT–ON TYPE QOB (NQ PANELBOARDS), TYPE EDB (NF PANELBOARDS), AND TYPE FA AND FH (I–LINE PANELBOARDS). BREAKERS SHALL BE TOGGLE ACTION WITH QUICK–MAKE, QUICK–BREAK MECHANISM. TRIP INDICATION SHALL BE BY BREAKER HANDLE TAKING A POSITION BETWEEN ON AND OFF. ALL MULTI–POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. ACCEPTABLE MANUFACTURERS: SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER–HAMMER

SAFETY SWITCHES: SWITCHES SHALL BE EQUAL TO SQUARE D TYPE HD WITH RATINGS AND FUSING PROVISIONS AS INDICATED.

IDENTIFICATION AND NAMEPLATES: PROVIDE ENGRAVED, LAMINATED BAKELITE (WHITE LETTERS ON BLACK SURFACE) NAMEPLATES SCREWED TO EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AS FOLLOWS:
A. PANELBOARDS, SWITCHBOARDS – DESIGNATION L1, P1, ETC.,VOLTAGE, PHASE NUMBER OF WIRES, ETC.; WORDING EXAMPLE: PANEL L1–208V–3 PHASE, 4 WIRE.
B. MOTOR STARTERS, DISCONNECT SWITCHES – UNLESS MOUNTED DIRECTLY ON OR ADJACENT TO IDENTIFY EQUIPMENT: WORDING EXAMPLE: EXHAUST FAN 1, MAKE–UP AIR UNIT.
PROVIDE TYPED DIRECTORIES FOR PANELBOARD BRANCH CIRCUIT IDENTIFICATION. IDENTIFY EACH CIRCUIT BREAKER AS TO THE EXACT ROOM NUMBERS OR AREA SERVED AND THE TYPE OF CIRCUIT, I.E. "ROOMS 101–104 LIGHTS" OR "CAFETERIA EXHAUST FAN". PROVIDE ALL ADDITIONAL LABELING AS REQUIRED BY NEC ARTICLES 110.16 (ARC FLASH HAZARD) & 110.24 (AVAILABLE FAULT CURRENT).

EQUIPMENT CONNECTIONS: THIS CONTRACTOR SHALL BRING ALL REQUIRED ELECTRICAL SERVICE TO ALL EQUIPMENT ITEMS FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS OR BY THE OWNER, MAKE FINAL CONNECTIONS, AND LEAVE EQUIPMENT READY FOR OPERATION. THIS CONTRACTOR SHALL COORDINATE WITH ANY AFFECTED TRADE TO ASSURE CORRECT OPERATION OF THE EQUIPMENT ITEM.

CONTROL AND INTERLOCK WIRING: EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONTROL AND INTERLOCK WIRING SHALL BE PERFORMED BY THE RESPECTIVE CONTRACTORS. THE ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL STARTERS, PILOT SWITCHES, CONTROL DEVICES AND MISCELLANEOUS ITEMS OF ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS THAT ARE NOT INTEGRALLY MOUNTED WITH THEIR ASSOCIATED EQUIPMENT.

SERVICE: THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SERVICE WITH THE UTILITY COMPANY. ALL CHARGES ASSOCIATED WITH SERVICE SHALL BE PAID BY THE E.C. PROVIDE UTILITY REQUIRED METERING PROVISIONS. PROVIDE CT CAN OR CONCRETE PAD FOR TRANSFORMER AS REQUIRED. PROVIDE CONDUIT FOR UTILITY PRIMARY IF REQUIRED. EC SHALL WORK DIRECTLY WITH THE UTILITY AND SHALL COMPLETE AND SUBMIT ALL LOAD DATA SHEETS REQUIRED FOR SERVICE APPLICATION. WHERE A NEW SERVICE IS NOT REQUIRED, BUT LOADS ARE ADDED TO AN EXISTING SERVICE, E.C. SHALL NOTIFY UTILITY OF ADDITIONAL LOADS E.C. SHALL PROVIDE THIS INFORMATION AT BEGINNING OF PROJECT TO ALLOW TIME FOR A TRANSFORMER CHANGE OUT IF NECESSARY.

VIBRATION ISOLATION AND SEISMIC RESTRAINT: ALL EQUIPMENT AND CONDUIT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE SEISMICALLY RESTRAINED BY CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE, VOL. 1 – GENERAL CONSTRUCTION.

SUBMITTALS: SHOP DRAWING SUBMITTALS WILL BE REQUIRED FOR THIS PROJECT. SUBMIT ELECTRONIC COPIES OF ALL LIGHT FIXTURES AND MAJOR SPECIFIED EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL SUBMITTALS AND MAKE CORRECTIONS AS REQUIRED PRIOR TO SUBMITTING TO ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL ALSO AFFIX HIS STAMP TO THE SUBMITTALS INDICATING THAT HIS REVIEW HAS BEEN COMPLETED. IT IS UNDERSTOOD THAT PROOF OF EQUALITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER AND THAT IT IS NOT THE RESPONSIBILITY OF THE ENGINEER TO PROVE THE INEQUALITY OF THE PROPOSED SUBSTITUTIONS. FURTHERMORE THE DECISION OF THE ENGINEER IS FINAL. SHOULD ANY SUBSTITUTE ITEMS BE SUBMITTED AND DISAPPROVED, THEN THOSE ITEMS MUST BE FURNISHED EXACTLY AS DESCRIBED HEREIN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS AND/OR SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DRAWINGS OR SPECIFICATIONS.

PROJECT CLOSE–OUT: DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: AFTER INSTALLATION HAS BEEN COMPLETED, EQUIPMENT HAS BEEN TESTED, SYSTEMS PLACED IN PERMANENT OPERATION, AND ALL ADJUSTMENTS MADE, THIS CONTRACTOR SHALL DEMONSTRATE THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT HE HAS INSTALLED TO THE OWNER'S REPRESENTATIVE.

OPERATING AND MAINTENANCE MANUALS: THIS CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF OPERATION AND MAINTENANCE MANUALS FOR THE EQUIPMENT HE HAS PROVIDED AND INSTALLED ON THE PROJECT. THE FIRST PAGE OF THE MANUALS SHALL IDENTIFY PROJECT AND GIVE NAME, ADDRESS AND PHONE NUMBER OF ARCHITECT, ENGINEER, MECHANICAL AND ELECTRICAL SUB–CONTRACTORS AND ANY SERVICE COMPANIES INVOLVED AND GIVE NAME AND NIGHT PHONE NUMBERS OF EACH PARTY REPRESENTING THE ELECTRICAL CONTRACTOR RESPONSIBLE FOR SERVICE DURING WARRANTY PERIOD.

WARRANTIES / GUARANTEE: THIS CONTRACTOR SHALL DELIVER TO THE OWNER ALL WARRANTIES FOR EQUIPMENT HE HAS PURCHASED AND INSTALLED. THIS CONTRACTOR SHALL ALSO GUARANTEE THAT ALL WORK PERFORMED AND/OR MATERIALS INSTALLED UNDER HIS CONTRACT IS OF THE QUALITY THAT COMPLIES WITH ALL SPECIFIC REQUIREMENTS OF THE PROJECT DOCUMENTS AND INSURES THE OWNER AGAINST ALL DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.

FINAL CLEAN UP: DURING CONSTRUCTION THIS CONTRACTOR SHALL KEEP THE SITE CLEAR OF DEBRIS AND UPON COMPLETION OF CONSTRUCTION HE SHALL CLEAN UP THE PREMISES AND REMOVE ALL EVIDENCE OF HIS WORK.

RECORD DRAWINGS: AT THE END OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT ONE SET OF THE ELECTRICAL DRAWINGS, UPDATED TO REFLECT CHANGES THAT HAVE TAKEN PLACE DURING THE CONSTRUCTION PERIOD, TO THE OWNER FOR THEIR USE. THE CORRECTED PLANS SHALL INDICATE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS.

PANEL M — 22,000 AMPS RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING — SURFACE MOUNTED NEMA 3R, SE LABEL

120/240 VOLTS, 1 PHASE, 3 WIRE, 200 AMP MAIN BREAKER

SERVES	CIR LOAD	CIR NO.	A	B	CIR NO.	CIR LOAD	SERVES
50A / 240V RECEPTACLE		1	50		2		PANEL "R" AT RESTROOMS
↓		3		100	4		↓
30A / 240V RECEPTACLE		5	30		6		SPARE
↓		7		30	8		↓
20A / 240V RECEPTACLE		9	20		10		SPARE
↓		11		20	12		↓
SPARE		13			14		SPARE
		15			16		
		17			18		
		19			20		
		21			22		
		23			24		
		25			26		
		27			28		
		29			30		
↓		31			32		↓
SPACE		33			34		SPACE
		35			36		
		37			38		
		39			40		
↓		41			42		↓

TOTAL CONNECTED LOAD: XX KVA (XXXA) ALL BREAKERS ARE 1P–20A UNLESS OTHERWISE NOTED

PANEL NOTES:

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

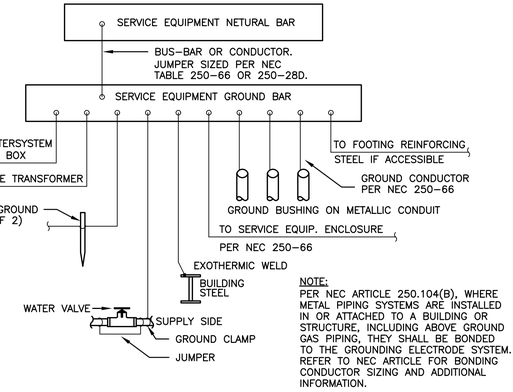
Energy Code: Prescriptive ● Performance ____
ASHRAE 90.1: Prescriptive ____ Performance ____

Lighting schedule

lamp type required in fixture	See Fixture Schedule
number of lamps in fixture	See Fixture Schedule
ballast type used in the fixture	See Fixture Schedule
number of ballasts in fixture	See Fixture Schedule
total wattage per fixture	See Fixture Schedule
total interior wattage specified vs allowed	N/A
total exterior wattage specified vs allowed	N/A

Additional Prescriptive Compliance

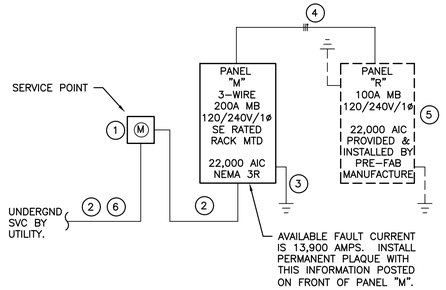
C406.2 More Efficient Mechanical Equipment	
C406.3 Reduced Lighting Power Density	●
C406.4 Enhanced Lighting Controls	
C406.5 On–Site Supply of Renewable Energy	
C406.6 Dedicated Outdoor Air System	
C406.7 High–Efficiency Service Water Heating	



NOTE: PER NEC ARTICLE 250.104(B), WHERE METAL PIPING SYSTEMS ARE INSTALLED IN OR ATTACHED TO A BUILDING OR STRUCTURE, INCLUDING ABOVE GROUND GAS PIPING, THEY SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM. REFER TO NEC ARTICLE FOR BONDING CONDUCTOR SIZING AND ADDITIONAL INFORMATION.

SERVICE EQUIPMENT GROUNDING DETAIL

NTS

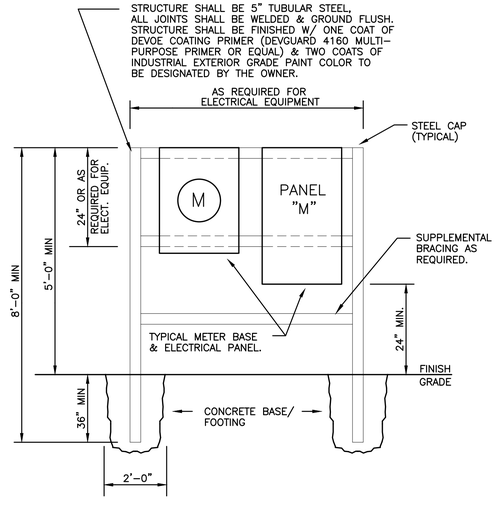


POWER RISER NOTES:

1. 200A, 120/240V, 1ø, 3–WIRE METER BASE.
2. 3 #3/0, 2"C UNDERGROUND.
3. #6 GND, ¾"C TO GROUND RODS (MINIMUM OF 2). E.C. TO INSTALL (2) 5/8" X 8' GROUND RODS SEPARATED BY A MINIMUM OF 6' APART. PROVIDE GROUNDING ELECTRODE CONDUCTOR AND CLAMPS SUITABLE FOR DIRECT BURIAL PER NATIONAL ELECTRICAL CODE (NEC).
4. 3 #1, #8 GND, 1 ½"C UNDERGROUND.
5. DO NOT BOND NEUTRAL AND GROUND IN PANEL "R".
6. COORDINATE ELECTRIC SERVICE INSTALLATION W/ UTILITY. PROVIDE CONDUCTORS AND CONDUITS AS REQUIRED. INCLUDE ALL INSTALLATION COSTS IN BID.

POWER RISER

NTS



PANEL "M" ELECTRICAL SERVICE EQUIPMENT STRUCTURE DETAIL

NTS

070226JFH221400

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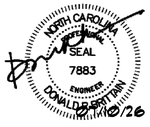


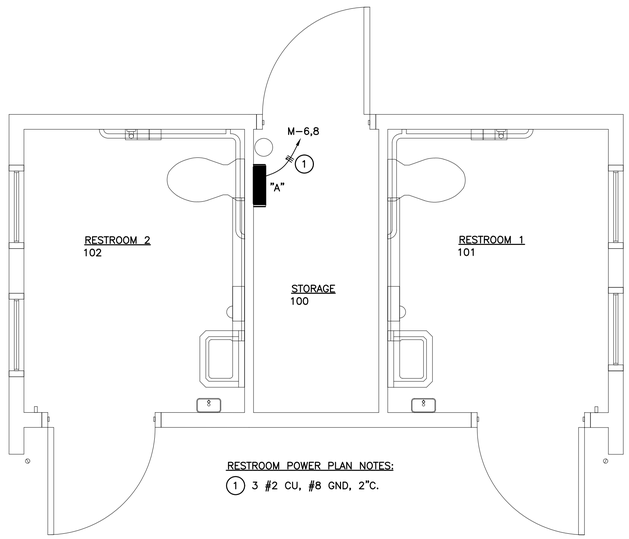
Miracle of Hickory Park Modifications

1515 12th Street Dr NW
Hickory, North Carolina

Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:
SPECIFICATIONS
SCHEDULES
APPENDIX B

Sheet No:
E1



RESTROOM POWER PLAN NOTES:

(1) 3 #2 CU, #8 GND, 2"C.

RESTROOM
FLOOR PLAN - POWER

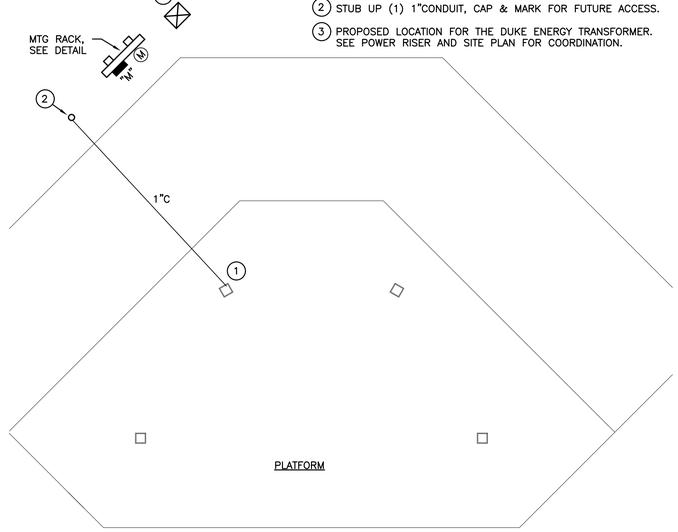
SCALE: 1/2" = 1'-0"

STAGE POWER PLAN NOTES:

(1) INSTALL (1) 1" CONDUIT UNDER SLAB AND TURN UP INTO A ONE INCH (INSIDE DIMENSION) SLEEVE IN THE SUPPORT POST POSITIONED IN THE CONCRETE PLATFORM AS SHOWN BELOW. REFERENCE: ARCH DTL 2/A1.1 PLATFORM & 3/A1.1 COLUMN.

(2) STUB UP (1) 1"CONDUIT, CAP & MARK FOR FUTURE ACCESS.

(3) PROPOSED LOCATION FOR THE DUKE ENERGY TRANSFORMER. SEE POWER RISER AND SITE PLAN FOR COORDINATION.



STAGE
FLOOR PLAN - POWER

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

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BRITTAIN ENGINEERING, INC.
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Seals:

Miracle of Hickory Park
Modifications

1515 12th Street Dr NW
Hickory, North Carolina

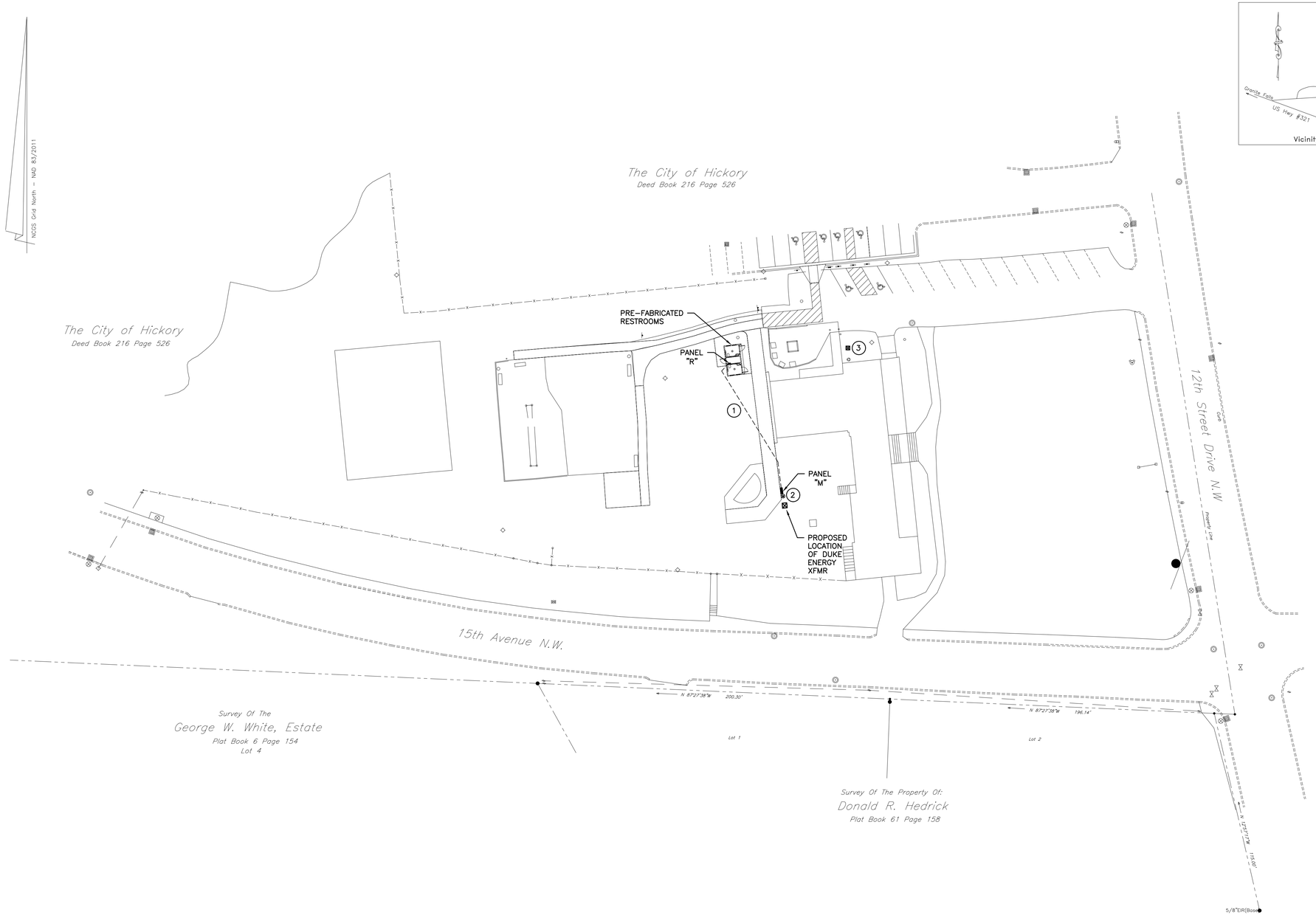
Project no: 1726.500007.00
Date: 07.10.26
Revisions:

Sheet Title:

RESTROOM &
STAGE
FLOOR PLAN
ELECTRICAL

Sheet No:

E2



SITE PLAN - ELECTRICAL

SCALE: 1" = 30'-0"

SITE PLAN NOTES:

1. 3 #1, #8 GND, 2"C. UNDERGROUND.
2. RACK MOUNTED SE PANEL "M" & DUKE ENERGY METER.
3. EXISTING 25KVA/240V/1ø TRANSFORMER SERVING HOUSE. TRANSFORMER SHOWN FOR REFERENCE ONLY.

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Seals:

NORTH CAROLINA PROFESSIONAL SEAL 7883 ENGINEER DONALD R. BRITTAIN 07/10/26

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SITE PLAN ELECTRICAL

Sheet No:
E3