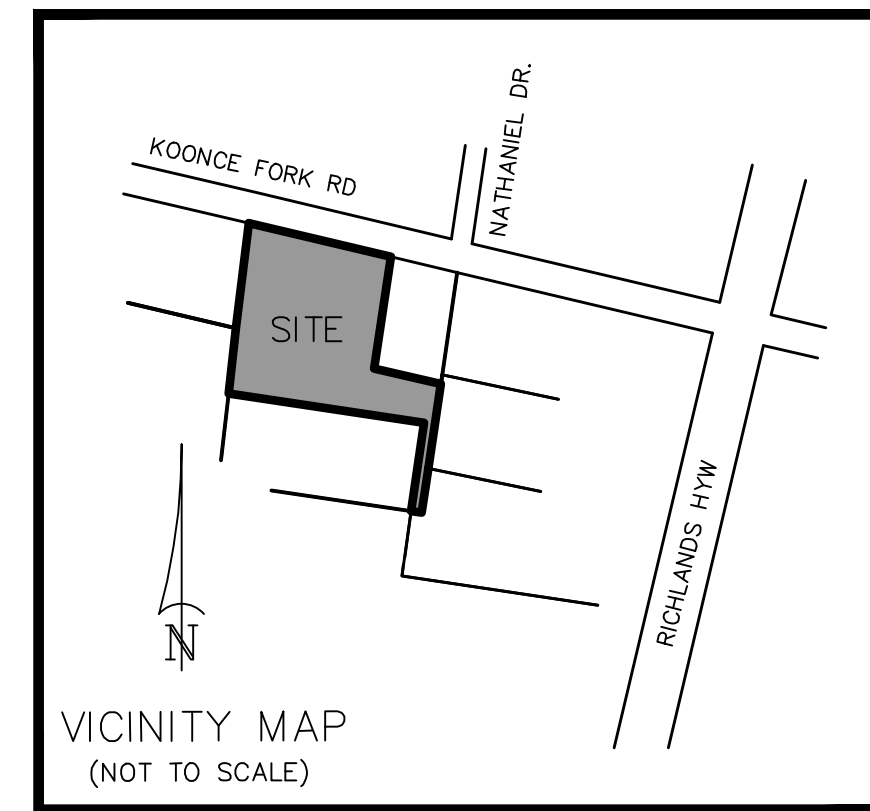


RICHLANDS MARRIOTT

135 KOONCE FORK ROAD
Richlands, North Carolina
CONSTRUCTION DRAWINGS



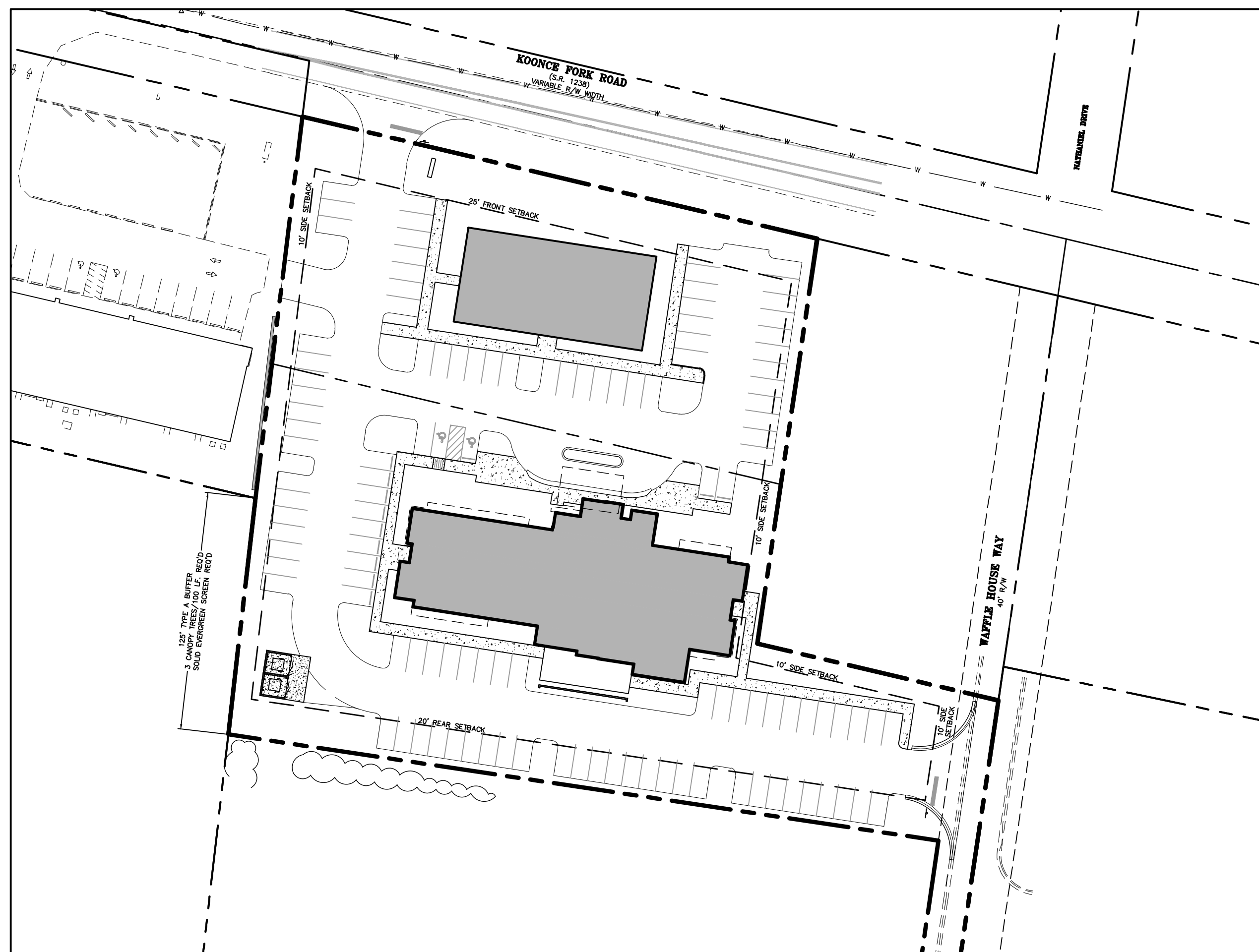
PROGRESS
12 NOV 2025

SITE DATA SUMMARY

PROJECT NAME:	
SITE ADDRESS:	135 KOONCE FORK ROAD
PARCEL ID:	443101477119
JURISDICTION:	CITY OF RICHLANDS
EXISTING ZONING:	C-2 (COMMERCIAL)
RIVER BASIN:	WHITE OAK
GROSS SITE AREA:	2.29 AC./99,752 SF.
CURRENT USE:	VACANT
PROPOSED USE:	COMMERCIAL, HOTEL
SETBACKS & DIMENSIONS:	
FRONT SETBACK:	25'
SIDE SETBACK:	10'
REAR SETBACK:	20'
HOTEL BUILDING FOOTPRINT:	10,600 SF.
COMMERCIAL BUILDING FOOTPRINT:	5,000 SF.
EXISTING IMPERVIOUS AREA:	0 SF.
PROPOSED IMPERVIOUS AREA:	68,209 SF.
PARKING SUMMARY:	
PARKING REQUIRED:	
HOTEL:	79 (1 SPACE PER KEY)
RESTAURANT:	1 SPACE PER 4 SEATS
PARKING PROVIDED:	
HOTEL:	79
RESTAURANT:	37

GENERAL NOTES

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY JOHNNY J. WILLIAMS LAND SURVEYING, PC.
- ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.



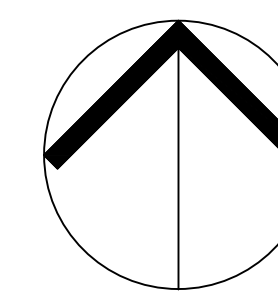
DRAWINGS INDEX:	
SITE 001	COVER SHEET
SITE 100	EXISTING CONDITIONS & DEMO PLAN
SITE 200	SITE LAYOUT PLAN
SITE 300	GRADING PLAN
SITE 400	UTILITY PLAN
SITE 500	LANDSCAPE PLAN
SITE 600	STORM PLAN & PROFILE
SITE 700	SITE DETAILS
SITE 701	SITE DETAILS
SITE 702	SITE DETAILS
SITE 703	SITE DETAILS

FLOODPLAIN NOTE:

- THIS PROPERTY IS LOCATED OUTSIDE THE ONSLOW COUNTY 100 YEAR FUTURE CONDITIONS FLOODPLAIN (1% FUTURE CONDITIONS FLOODPLAIN).
- FEMA REFERENCE DATA:
FEMA FIRM PANEL No.: 3720443100K
EFFECTIVE DATE: JUNE 19, 2020
- THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720443100K DATED JUNE 19, 2020.

CONTACT:
SAMUEL R. NYE, PE
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605
PHONE: (919) 835-4787
FAX: (919) 839-2255
EMAIL: srm@thesitegroup.net

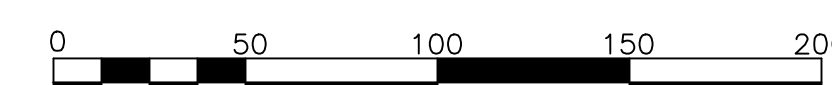
OWNER:
WARD CONSTRUCTION INC
8728 TROWBRIDGE WAY
DAYTON, OH 45424-6463



NORTH

COVER SHEET

SCALE: 1" = 50' (DRAWING SCALED FOR 24x36 INCH PLOTS)



THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605-1136 USA
Phone: 919.835.4787
Office: 919.839.2255
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: CJB
Checked By: SRN

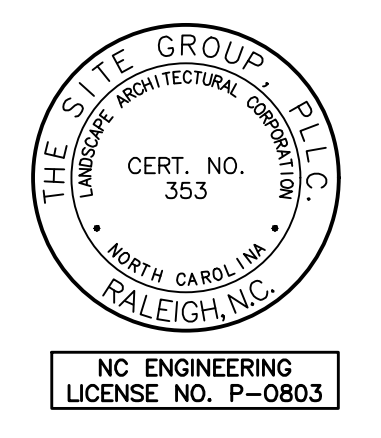
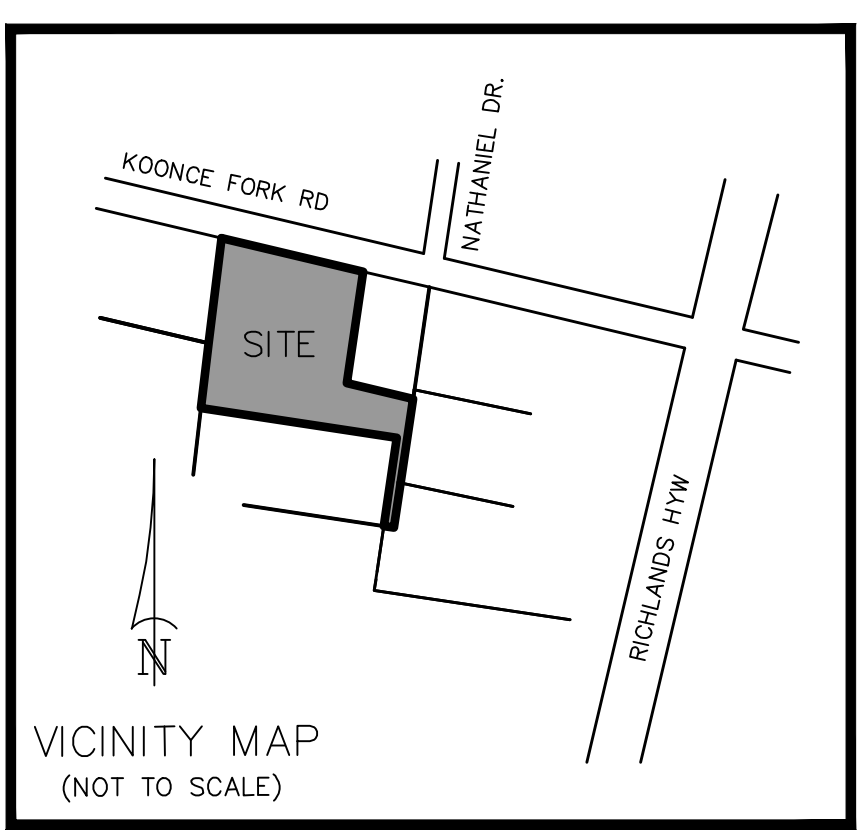
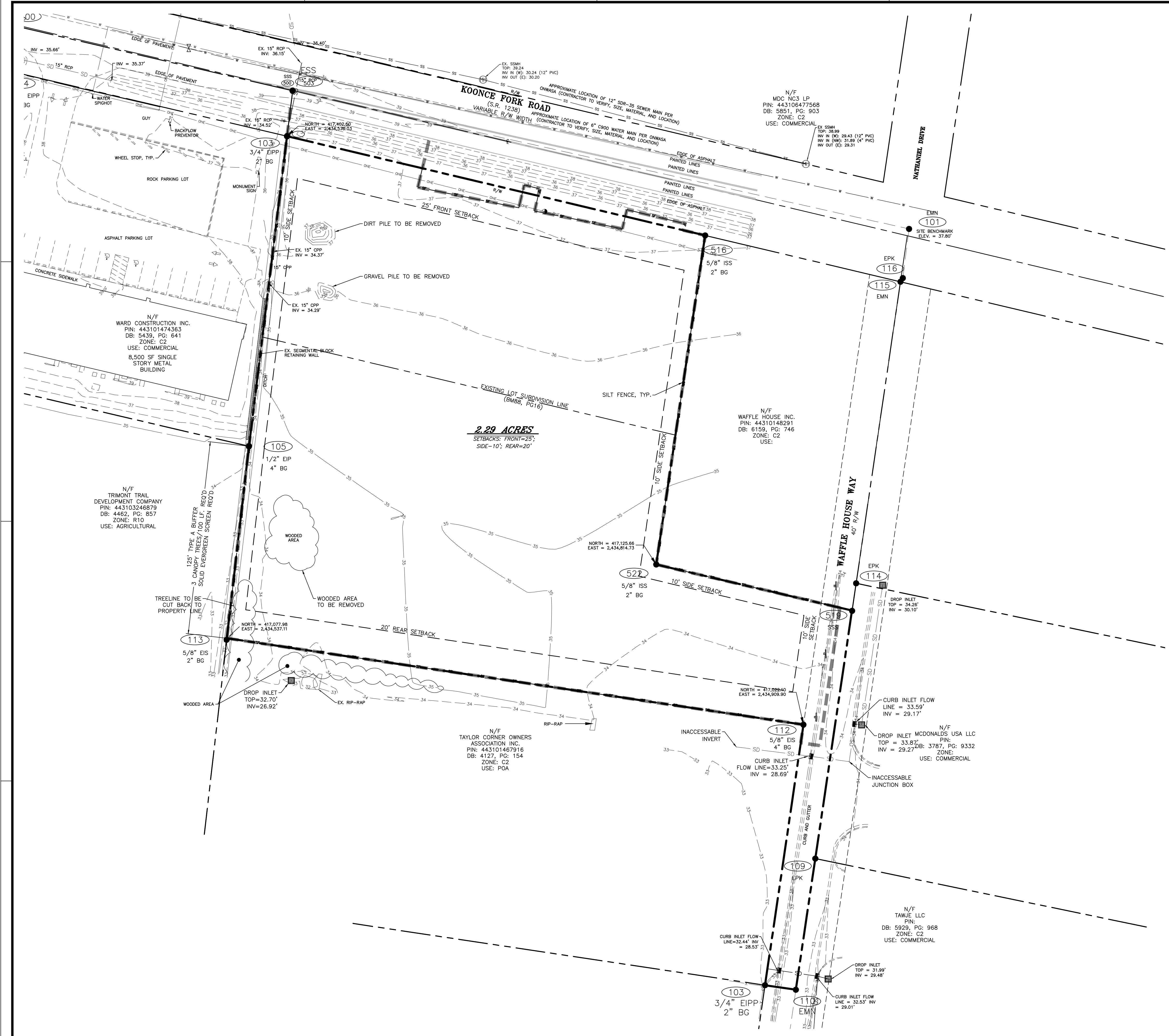
DATE:
PROGRESS

CONSTRUCTION DRAWINGS

COVER SHEET

Job Code: WCRH

Dwg No.
SITE 001

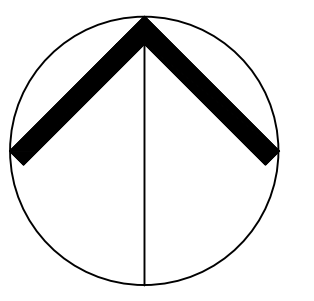


PROGRESS
12 NOV 2025

- GENERAL NOTES**
1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
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 3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY JOHNNY J. WILLIAMS LAND SURVEYING, PC.
 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

LINE LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT LOT LINE
	STREET CENTERLINE
	EXISTING ROAD STRIPING
	EXISTING EASEMENTS
	BUILDING SETBACK
	EX. MAJOR TOPO CONTOUR
	EX. MINOR TOPO CONTOUR
	EX. SANITARY SEWER LINE
	EX. WATER LINE
	EXISTING STORM DRAIN
	SILT FENCE
	LIMITS OF DISTURBANCE



NORTH
EXISTING CONDITIONS & DEMO PLAN

SCALE: 1" = 30'
(DRAWING SCALED FOR 24x36 INCH PLOTS)

THE SITE GROUP, P.L.L.C.
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, P.L.L.C.
1000 N. W. 27th St., Suite 200
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E-Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
Checked By: **SRN**

DATE: **PROGRESS**

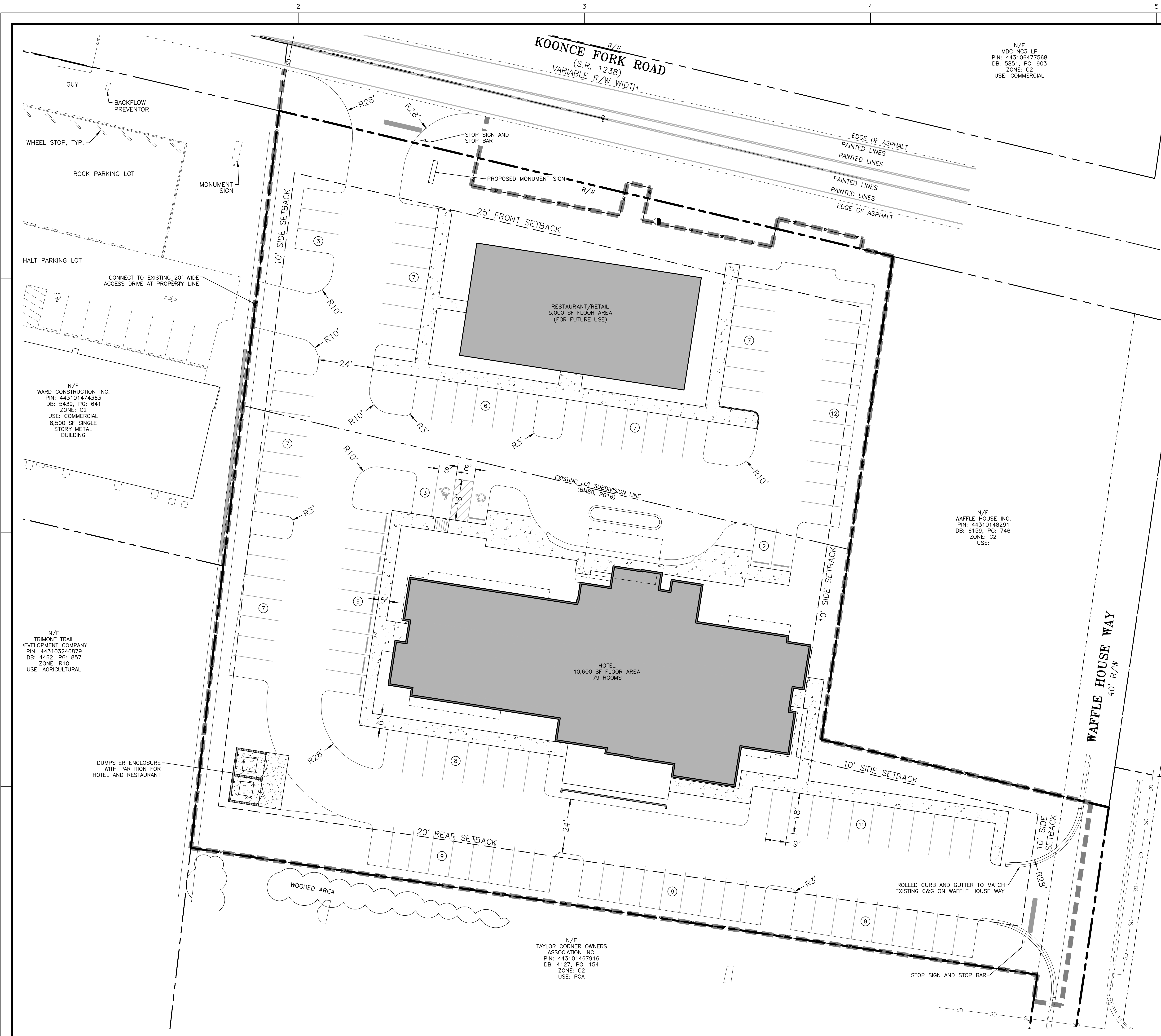
CONSTRUCTION DRAWINGS

EXISTING CONDITIONS & DEMO PLAN

Job Code: **WCRH**

Dwg No. **SITE 100**

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KOONCE FORK ROAD
(S.R. 1238)
VARIABLE R/W WIDTH

N/F
MDC NC3 LP
PIN: 443106477568
DB: 5851, PG: 903
ZONE: C2
USE: COMMERCIAL

SITE DATA SUMMARY

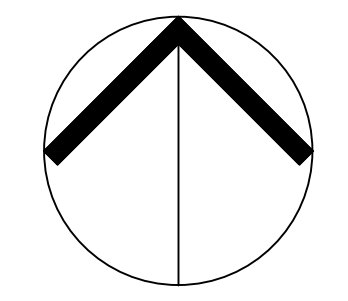
PROJECT NAME:	135 KOONCE FORK ROAD
PARCEL ID:	44310477119
JURISDICTION:	CITY OF RICHLANDS
EXISTING ZONING:	C-2 (COMMERCIAL)
RIVER BASIN:	WHITE OAK
GROSS SITE AREA:	2.29 AC./99,752 SF.
CURRENT USE:	VACANT
PROPOSED USE:	COMMERCIAL, HOTEL
SETBACKS & DIMENSIONS:	
FRONT SETBACK:	25'
SIDE SETBACK:	10'
REAR SETBACK:	20'
HOTEL BUILDING FOOTPRINT:	10,600 SF.
COMMERCIAL BUILDING FOOTPRINT:	5,000 SF.
EXISTING IMPERVIOUS AREA:	0 SF.
PROPOSED IMPERVIOUS AREA:	68,209 SF.
PARKING SUMMARY:	
PARKING REQUIRED:	79 (1 SPACE PER KEY)
HOTEL:	79
RESTAURANT:	1 SPACE PER 4 SEATS
PARKING PROVIDED:	
HOTEL:	79
RESTAURANT:	37

GENERAL NOTES

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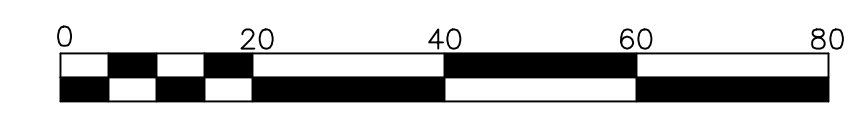
LINE LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT LOT LINE
	STREET CENTERLINE
	EXISTING ROAD STRIPING
	EXISTING EASEMENTS
	BUILDING SETBACK
	PROPOSED EDGE OF PAVEMENT
	PROPOSED SIDEWALK
	SILT FENCE
	LIMITS OF DISTURBANCE



NORTH
SITE LAYOUT PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

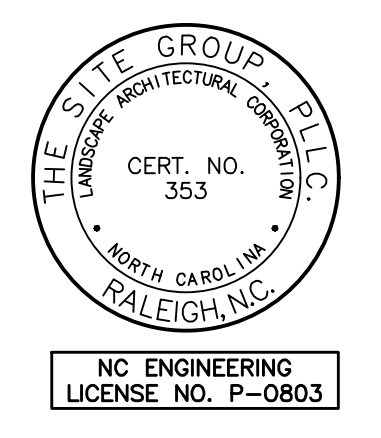


N/F
WARD CONSTRUCTION INC.
PIN: 443101474363
DB: 5439, PG: 641
ZONE: C2
USE: COMMERCIAL
8,500 SF SINGLE STORY METAL BUILDING

N/F
TRIMONT TRAIL DEVELOPMENT COMPANY
PIN: 443103246879
DB: 4462, PG: 857
ZONE: R10
USE: AGRICULTURAL

N/F
WAFFLE HOUSE INC.
PIN: 44310148291
DB: 6159, PG: 746
ZONE: C2
USE:

N/F
TAYLOR CORNER OWNERS ASSOCIATION INC.
PIN: 443101467916
DB: 4127, PG: 154
ZONE: C2
USE: POA



PROGRESS
12 NOV 2025

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC
10000 Old Forest Dr., Suite 100
Raleigh, NC 27606-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E-Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
Checked By: **SRN**

DATE:
PROGRESS

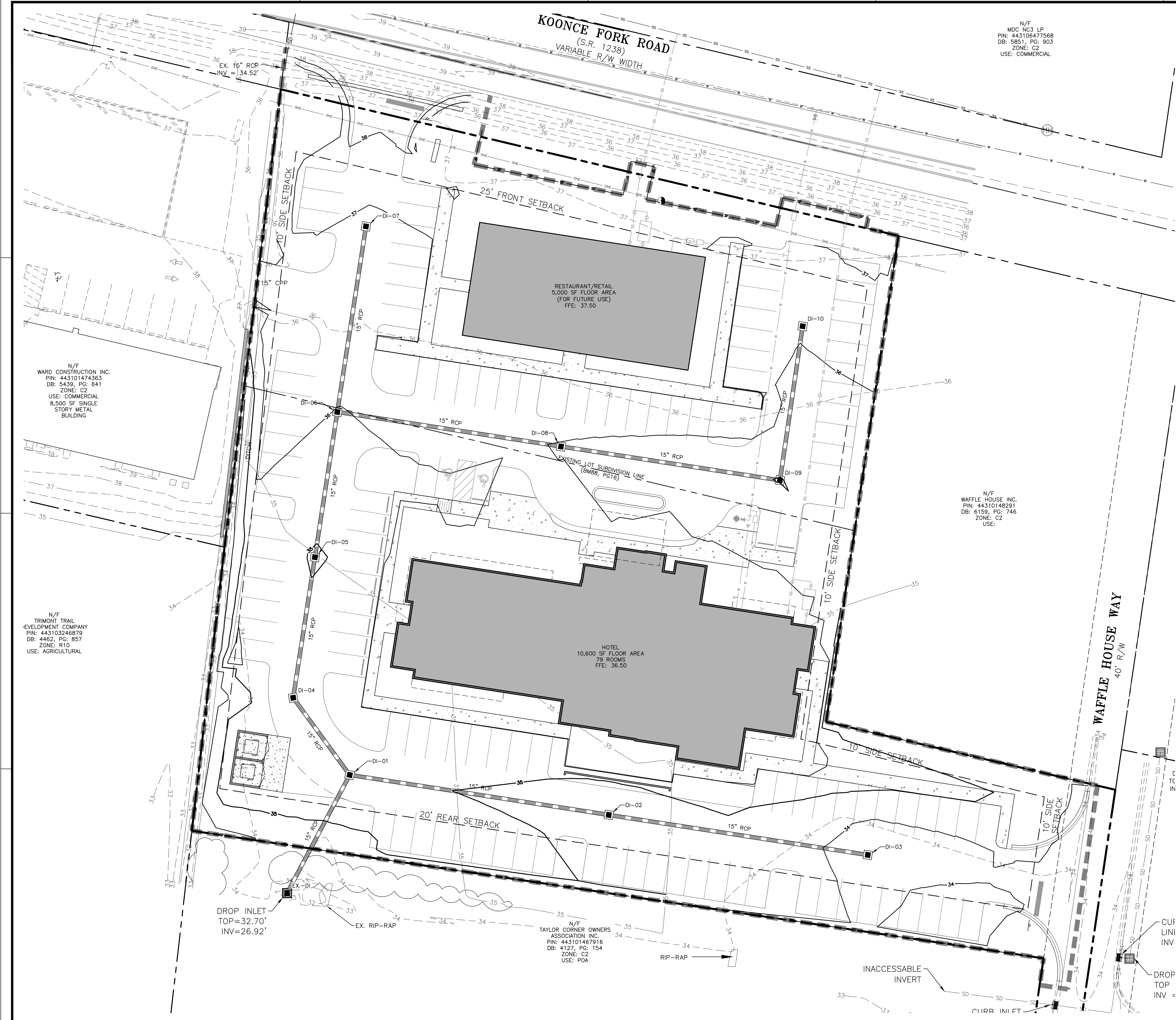
CONSTRUCTION DRAWINGS

SITE LAYOUT PLAN

Job Code: **WCRH**

Dwg No.
SITE 200

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N/F
MDC NCS LP
PIN: 443106477568
DB: 5851, PG: 903
ZONE: C2
USE: COMMERCIAL

N/F
WARD CONSTRUCTION INC.
PIN: 443101474363
DB: 5439, PG: 641
ZONE: C2
USE: COMMERCIAL
8,500 SF SINGLE
STORY METAL
BUILDING

N/F
WAFFLE HOUSE INC.
PIN: 44310148291
DB: 6159, PG: 746
ZONE: C2
USE:

N/F
TRIMONT TRAIL
EVELOPMENT COMPANY
PIN: 443103246879
DB: 4462, PG: 857
ZONE: R10
USE: AGRICULTURAL

N/F
TAYLOR CORNER OWNERS
ASSOCIATION INC.
PIN: 443101467916
DB: 4127, PG: 154
ZONE: C2
USE: POA

GENERAL NOTES

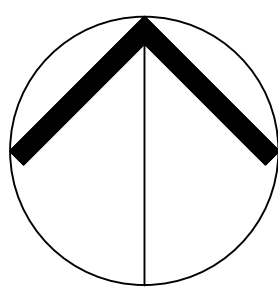
1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
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3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY JOHNNY J. WILLIAMS LAND SURVEYING, PC.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

GRADING NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF RICHLANDS, ONWASA, AND STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY JOHNNY J. WILLIAMS LAND SURVEYING, PC DATED XXX XX, 202X. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM ONSLOW COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
4. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
6. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
7. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
8. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
9. ALL SLOPES EQUAL TO 2:1 SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES.
10. SLOPES STEEPER THAN 3:1 BUT LESS THAN 2:1 SHALL BE STABILIZED WITH PERMANENT GROUND COVER, NOT WITH TURF GRASS.
11. MATERIAL SUBMITTAL CUT SHEETS FOR STORM DRAINAGE INFRASTRUCTURE SHALL BE SUBMITTED TO TOWN OF RICHLANDS AND ONWASA FOR APPROVAL PRIOR TO INSTALLATION.

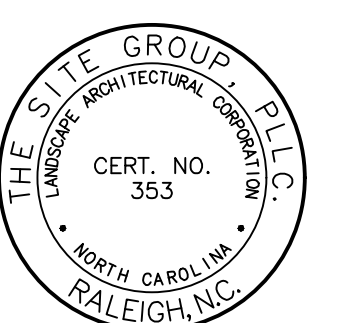
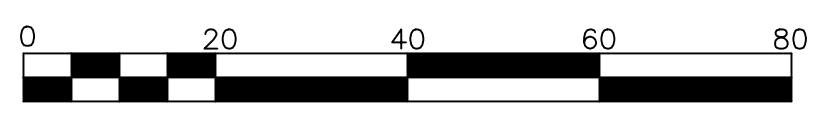
LINE LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT LOT LINE
	STREET CENTERLINE
	EXISTING ROAD STRIPING
	EXISTING EASEMENTS
	BUILDING SETBACK
	EX. MAJOR TOPO CONTOUR
	EX. MINOR TOPO CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EX. SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EX. WATER LINE
	PROPOSED WATER LINE
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	SILT FENCE
	LIMITS OF DISTURBANCE



**NORTH
GRADING
PLAN**

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



NC ENGINEERING
LICENSE NO. P-0803

**PROGRESS
12 NOV 2025**

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1000 N. W. 27th St., Suite 200
Raleigh, NC 27605-1136 USA
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Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
Checked By: **SRN**

DATE:
PROGRESS

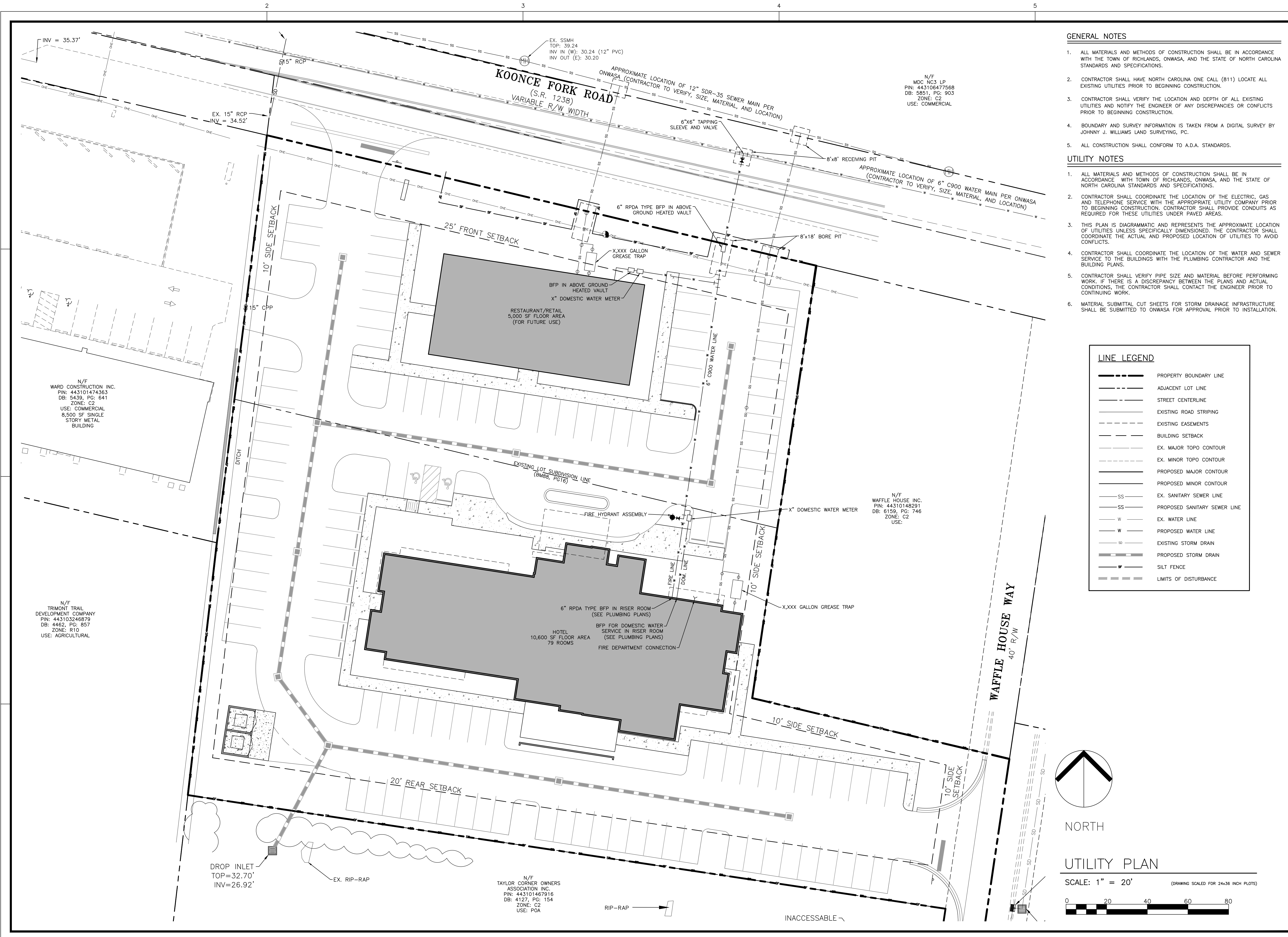
CONSTRUCTION DRAWINGS

GRADING PLAN

Job Code: **WCRH**

Dwg No.
**SITE
300**

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GENERAL NOTES

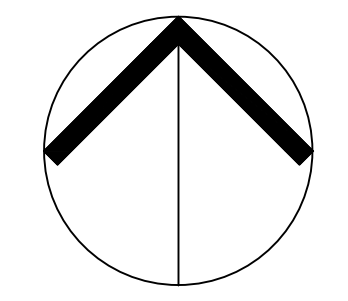
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5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

UTILITY NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC, GAS AND TELEPHONE SERVICE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS.
3. THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL AND PROPOSED LOCATION OF UTILITIES TO AVOID CONFLICTS.
4. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE WATER AND SEWER SERVICE TO THE BUILDINGS WITH THE PLUMBING CONTRACTOR AND THE BUILDING PLANS.
5. CONTRACTOR SHALL VERIFY PIPE SIZE AND MATERIAL BEFORE PERFORMING WORK. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO CONTINUING WORK.
6. MATERIAL SUBMITTAL CUT SHEETS FOR STORM DRAINAGE INFRASTRUCTURE SHALL BE SUBMITTED TO ONWASA FOR APPROVAL PRIOR TO INSTALLATION.

LINE LEGEND

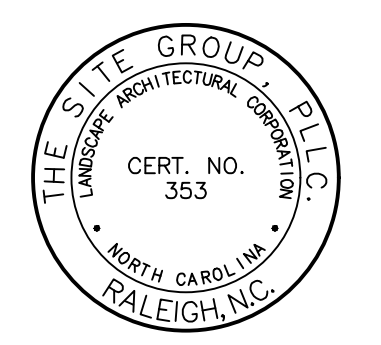
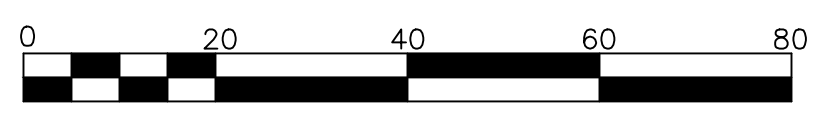
	PROPERTY BOUNDARY LINE
	ADJACENT LOT LINE
	STREET CENTERLINE
	EXISTING ROAD STRIPING
	EXISTING EASEMENTS
	BUILDING SETBACK
	EX. MAJOR TOPO CONTOUR
	EX. MINOR TOPO CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EX. SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EX. WATER LINE
	PROPOSED WATER LINE
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	SILT FENCE
	LIMITS OF DISTURBANCE



NORTH

UTILITY PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



PROGRESS
12 NOV 2025

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
135 Koonce Fork Road
Richlands, NC 27608-1136 USA
Office: 919.835.4787
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CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
Checked By: **SRN**

DATE:
PROGRESS

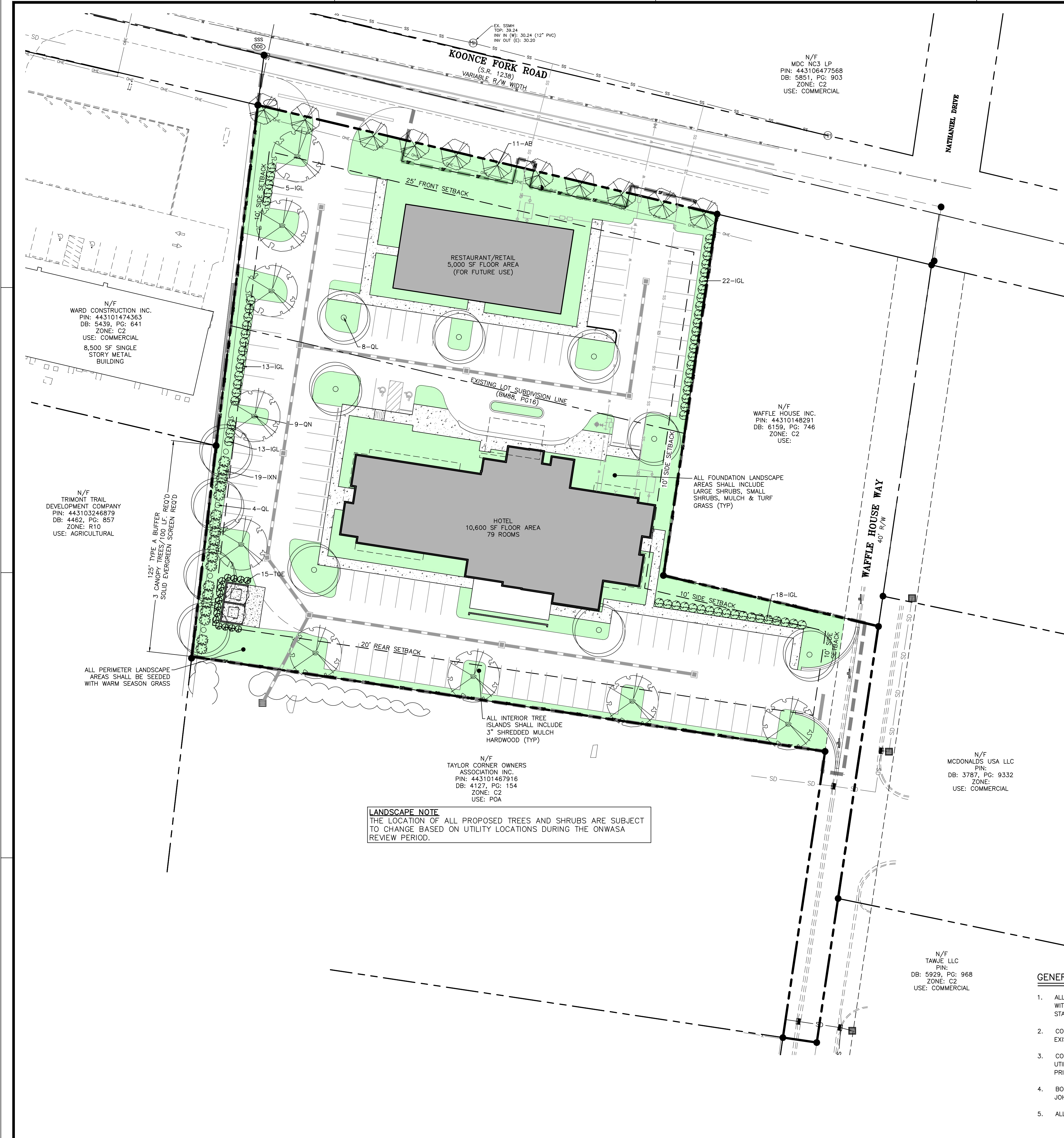
CONSTRUCTION DRAWINGS

UTILITY PLAN

Job Code: **WCRH**

Dwg No.
SITE 400

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OVERALL PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	ROOT SPACING
CANOPY TREES						
OL	12	QUERCUS LAURIFOLIA	LAUREL OAK	8-10'	2.5" CAL.	B&B AS SHOWN
ON	9	QUERCUS NUTALLII	NUTTALL OAK	8-10'	2.5" CAL.	B&B AS SHOWN
UNDERSTORY TREES						
AB	11	ACER BUERGERIANUM	TRIDENT MAPLE	8'	2" CAL.	B&B 25' O.C.
SHRUBS						
IGL	61	ILEX CRENATA 'GREEN LUSTRE'	GREEN LUSTRE HOLLY	24" HT. MIN.	5 GAL.	CONT. 5' O.C.
IXN	19	ILEX x NATIONAL	NATIONAL HOLLY	6" HT. MIN.	B&B	5' O.C.
TOE	15	THUGA OCCIDENTALIS 'EMERALD'	EMERALD ARBORVITAE	36" HT. MIN.	7 GAL.	CONT. 4' O.C.

PLANTING NOTES:
LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.
SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER; O.C. = ON-CENTER; (R) = TO REMAIN
MULCH: MULCH ALL BED AREAS WITH SHREDDED HARDWOOD MULCH TO A DEPTH OF 3". PINE STRAW IS PROHIBITED AS A LANDSCAPE COVER MATERIAL WITHIN 10' OF BUILDINGS WITH COMBUSTIBLE EXTERIOR CONSTRUCTION.
NOTE:
1. ANY BRANCHES IN SIGHT TRIANGLES WILL BE LIMBED UP TO A HEIGHT OF 6'. ALL SHRUBS LOCATED IN SIGHT TRIANGLES WILL BE MAINTAINED BELOW 3'.
2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT LIMITED TO:

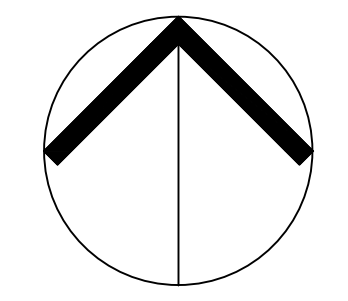
- FERTILIZATION:** FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15-MARCH 15 AND AGAIN SEPTEMBER 1-OCTOBER 31) ACCORDING TO SOIL TEST. FERTILIZE WARM SEASON GRASSES ONCE DURING THE GROWING SEASON PER SOIL TEST.
- PRUNING:** PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES/SAFETY REASONS. THE ANSI A300 STANDARDS SHOULD BE ADHERED TO. THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES.
- PEST CONTROL:** PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE PROBLEM.
- MULCHING:** MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVERY TWO YEARS. AS NECESSARY TO MAINTAIN THE AVERAGE DEPTH OF THE PLANT BED.
- MOWING:** PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 TIMES PER YEAR. SECONDARY TURF AREAS MAY BE MAINTAINED HIGHER AND LESS FREQUENTLY. WARM SEASON GRASSES SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF TURF GRASS.
- PLANT PROTECTION:** AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS.
- WATERING:** IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" OF RAINFALL PER WEEK DURING THE GROWING SEASON. (PENDING TOWN OF RICHLANDS WATER/IRRIGATION SUPPLIES.)
- PLANT REPLACEMENT:** ANY REQUIRED PLANTING, WHICH IS REMOVED OR DIES AFTER DATE OF PLANTING SHALL BE REPLACED DURING THE NEXT PLANTING SEASON. ALSO, ANY TREE IN A TREE PRESERVATION AREA WHICH IS REMOVED OR DIES SHALL BE REPLACED DURING THE NEXT PLANTING SEASON.

REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUIRED RATES AND SIZES.
FAILURE TO MAINTAIN REQUIRED LANDSCAPE AREAS SHALL CONSTITUTE A VIOLATION OF THIS UDO ENFORCEABLE UNDER THE PROVISIONS OF SECTION 10-ENFORCEMENT.

- THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW.
- ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED TO THE EXTENT POSSIBLE WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY.
- ENTRY FEATURE WALLS REQUIRE FOUNDATION PLANTINGS AT THE BASE OF THE WALL.
- ALL PLANTING MEDIANS AND/OR ISLANDS IN VEHICULAR USE AREAS SHALL BE AT LEAST SEVENTEEN FEET LONG BY EIGHT FEET WIDE FROM BACK OF CURB TO BACK OF CURB.
- THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
- NO TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK AND WITHIN 20' OF A LIGHTING LOCATION.
- ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
- WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE TOWN OF RICHLANDS SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS.
- UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT AND PROVIDED TO THE TOWN OF RICHLANDS PLANNING DEPARTMENT.
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO TOWN STAFF SITE INSPECTOR ATTESTING TO THE FACT THAT THE SOIL AMENDMENT SCHEDULE WAS FOLLOWED AS SPECIFIED IN THE APPROVED SITE AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED ARBORIST, OR OTHER SPECIALIST AS DETERMINED ACCEPTABLE BY THE PLANNING DIRECTOR.
- THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANNER SHALL RESULT IN A CITATION FOR VIOLATION OF THIS ORDINANCE IN ACCORDANCE WITH CHAPTER 11.
- ALL FOUNDATION PLANTINGS SHALL BE DESIGNED TO TOWN OF RICHLANDS UDO SECTION REQUIREMENTS. THE TOWN OF RICHLANDS SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL PLANTINGS BASED ON ACTUAL FIELD CONDITIONS.

GENERAL NOTES

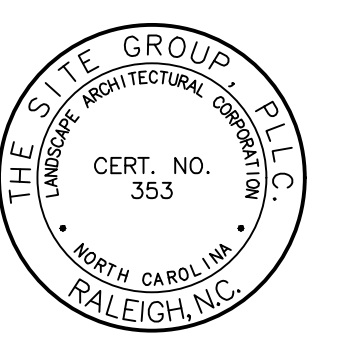
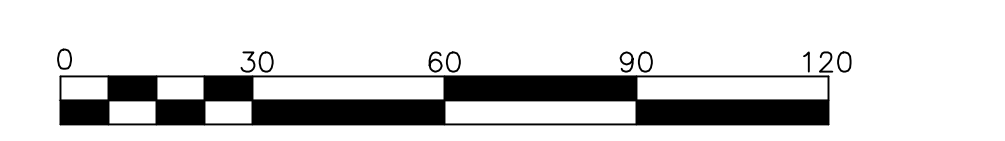
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY JOHNNY J. WILLIAMS LAND SURVEYING, PC.
- ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.



NORTH

LANDSCAPE PLAN

SCALE: 1" = 30'



PROGRESS
12 NOV 2025

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, P.L.L.C.
10000 Old Forest Road, Suite 100
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E-Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **JHU**
Checked By: **SRN**

DATE:
PROGRESS

CONSTRUCTION DRAWINGS

LANDSCAPE PLAN

Job Code: **WCRH**

Dwg No.
SITE 500

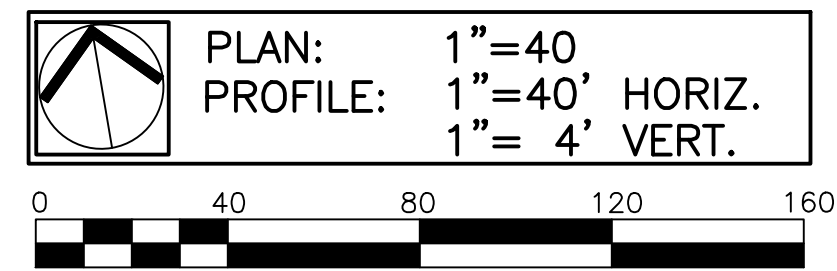
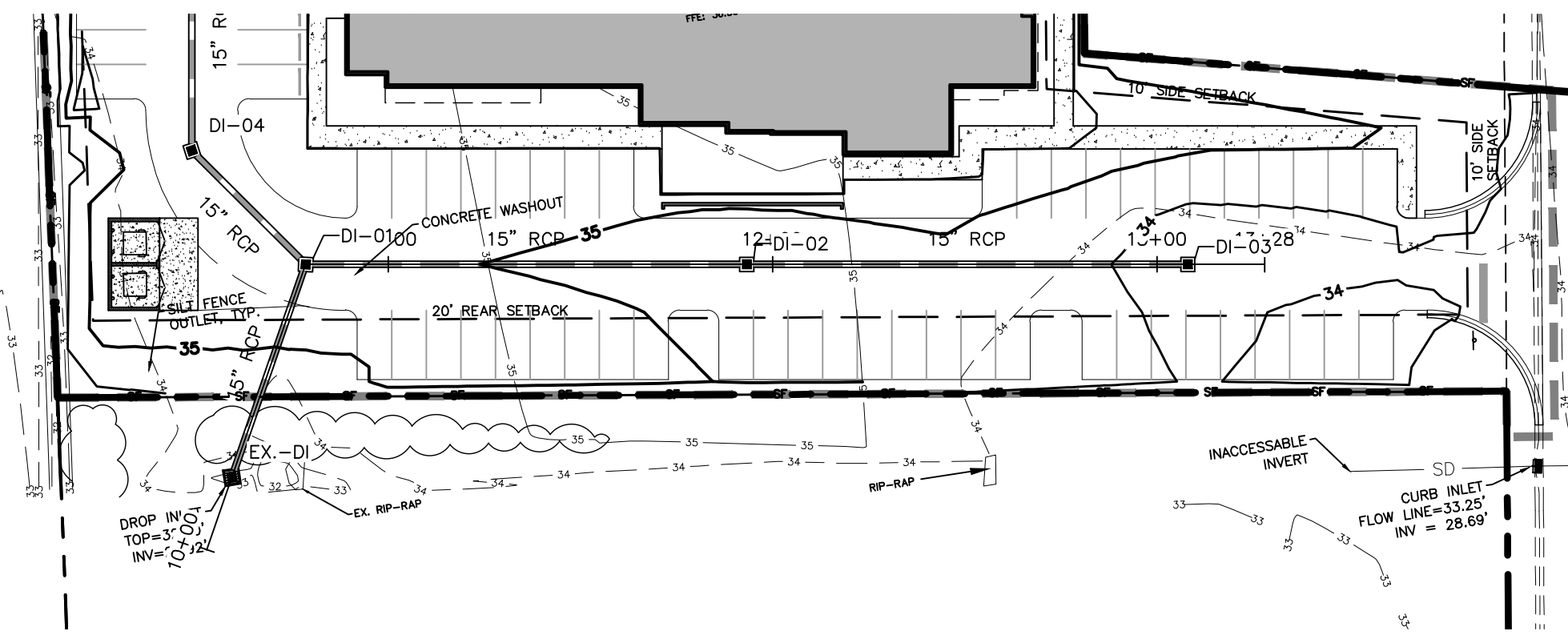
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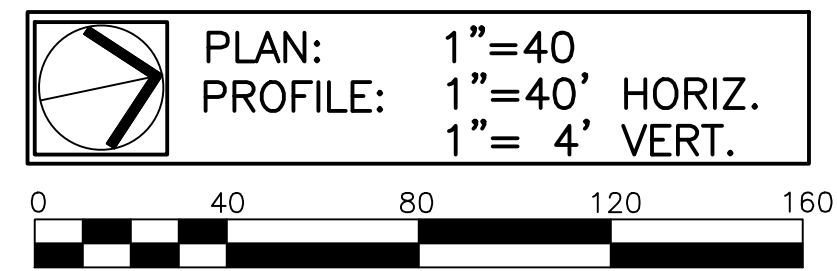
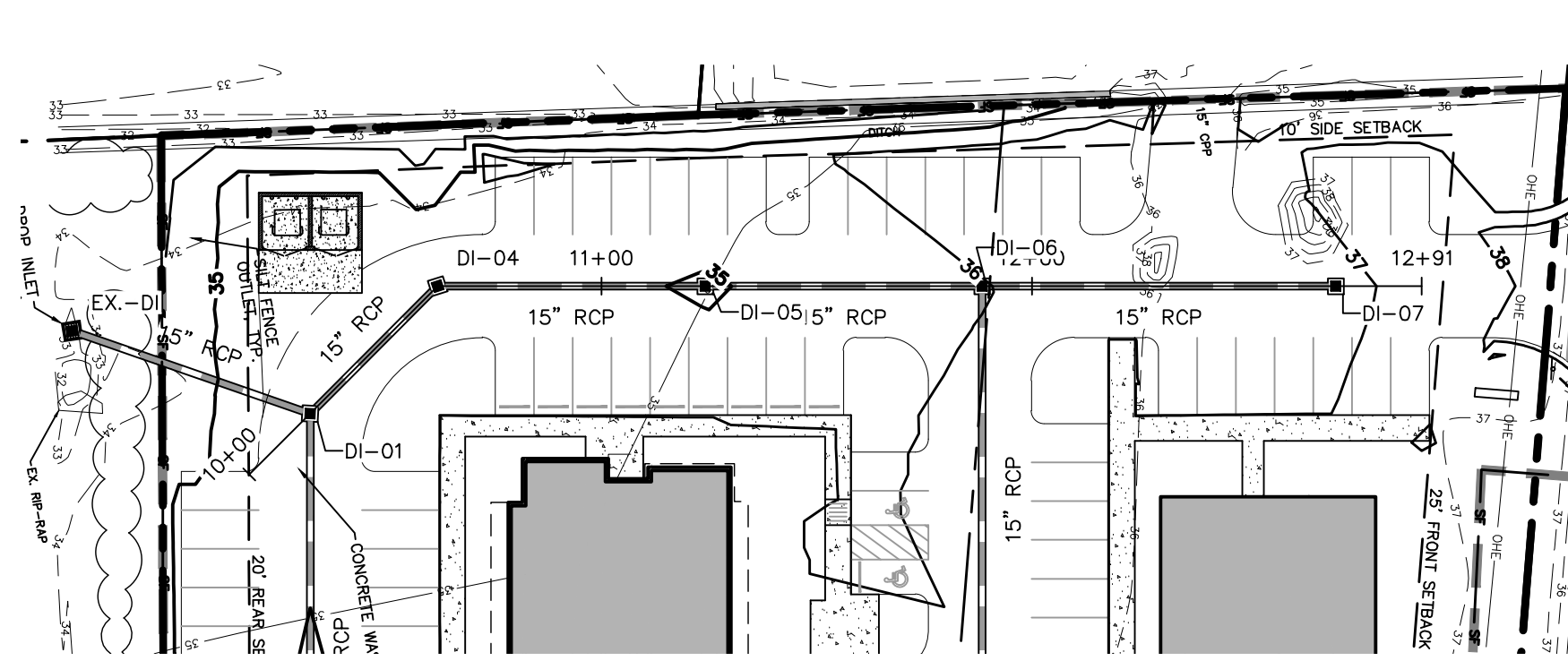
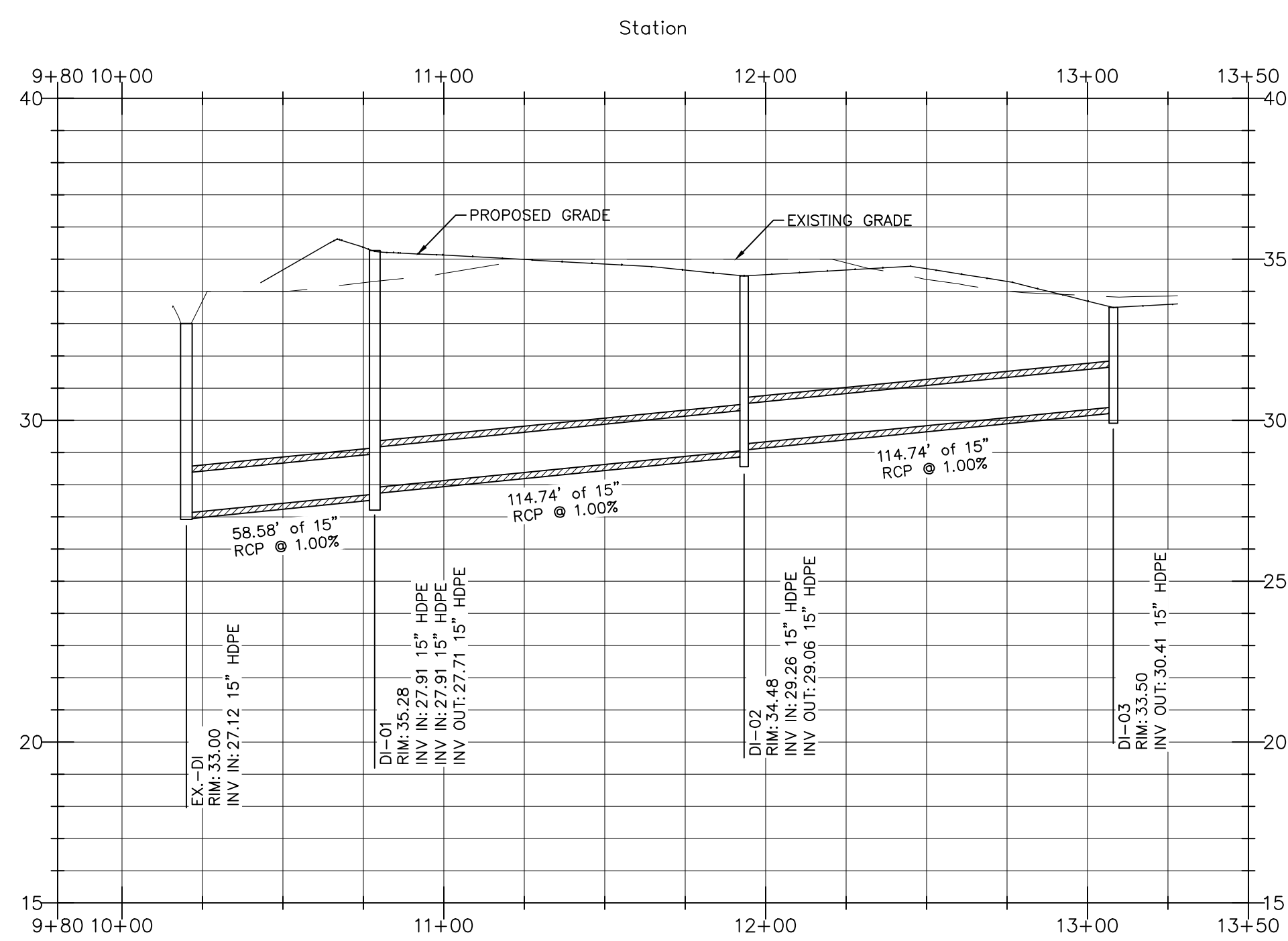
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PROGRESS 12 NOV 2025

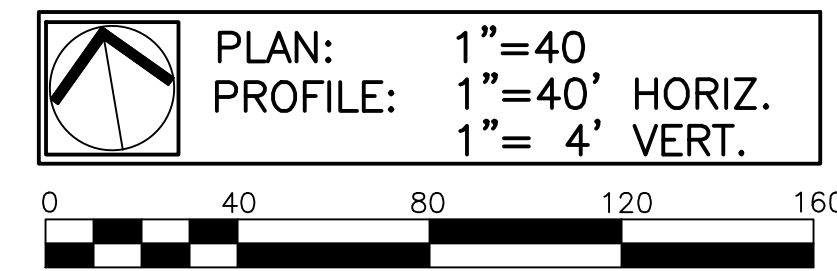
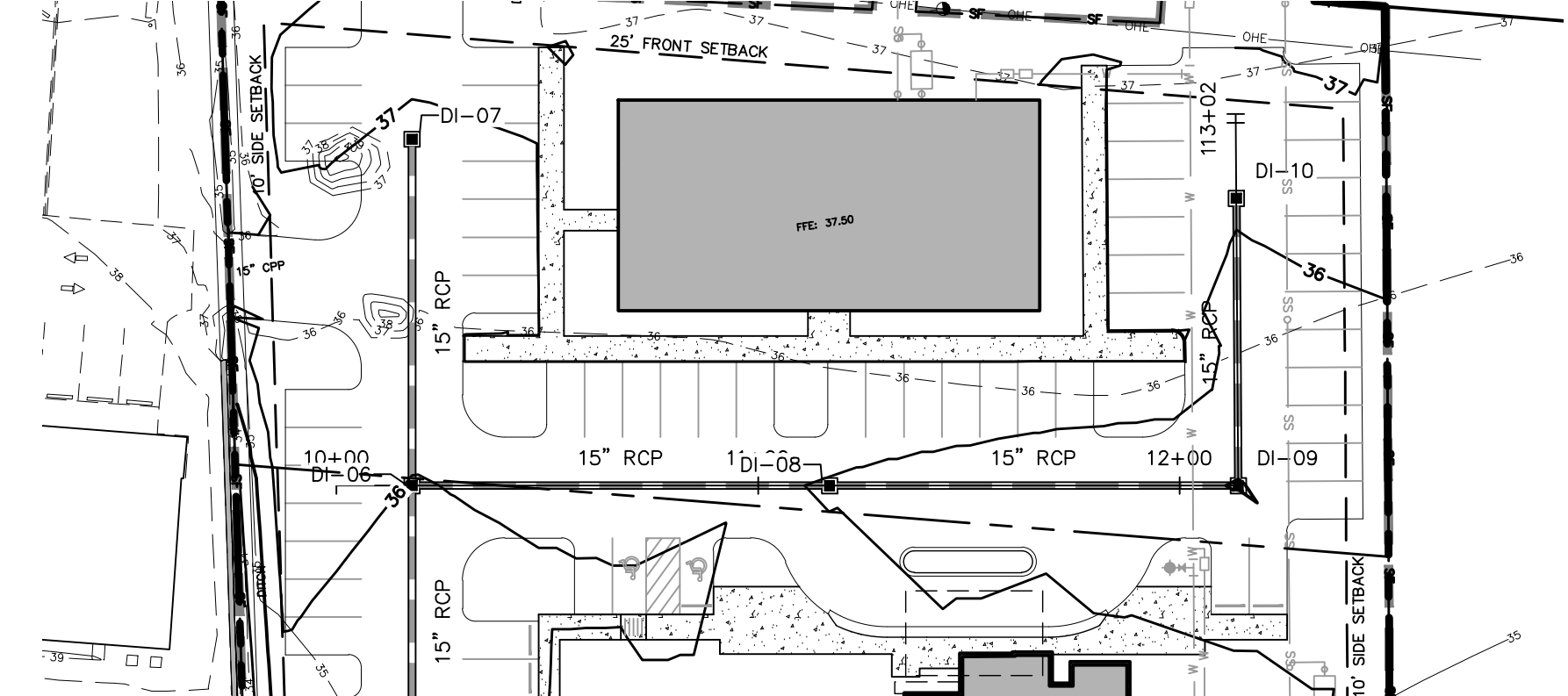
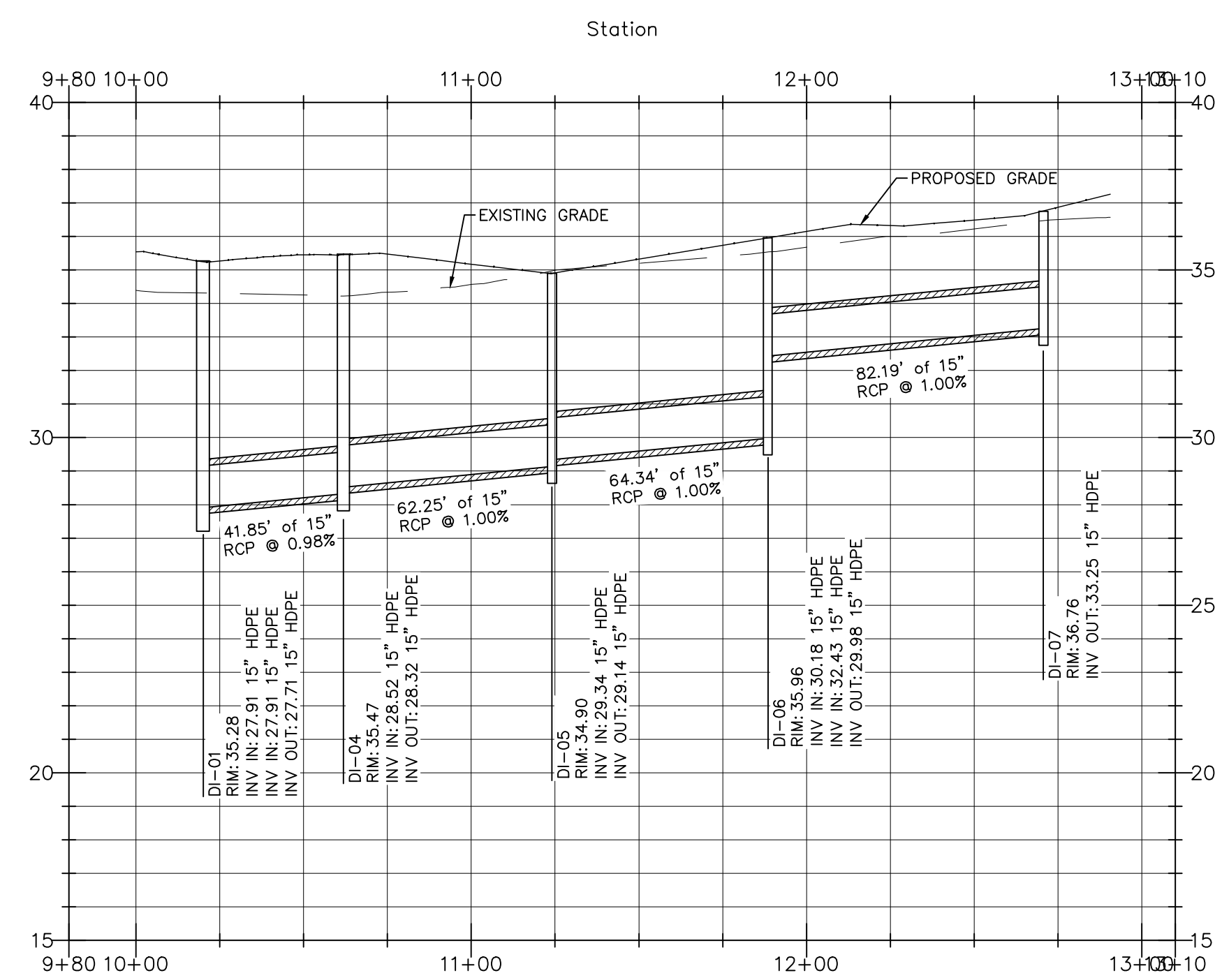
THE SITE GROUP, P.L.L.C. CIVIL ENGINEERS • LANDSCAPE ARCHITECTS THE SITE GROUP, P.L.L.C. 1000 N. W. 10th St., Suite 200 Raleigh, NC 27605-1136 USA Office: 919.835.4787 Fax: 919.839.2255 E Mail: SRN@thesitegroup.net



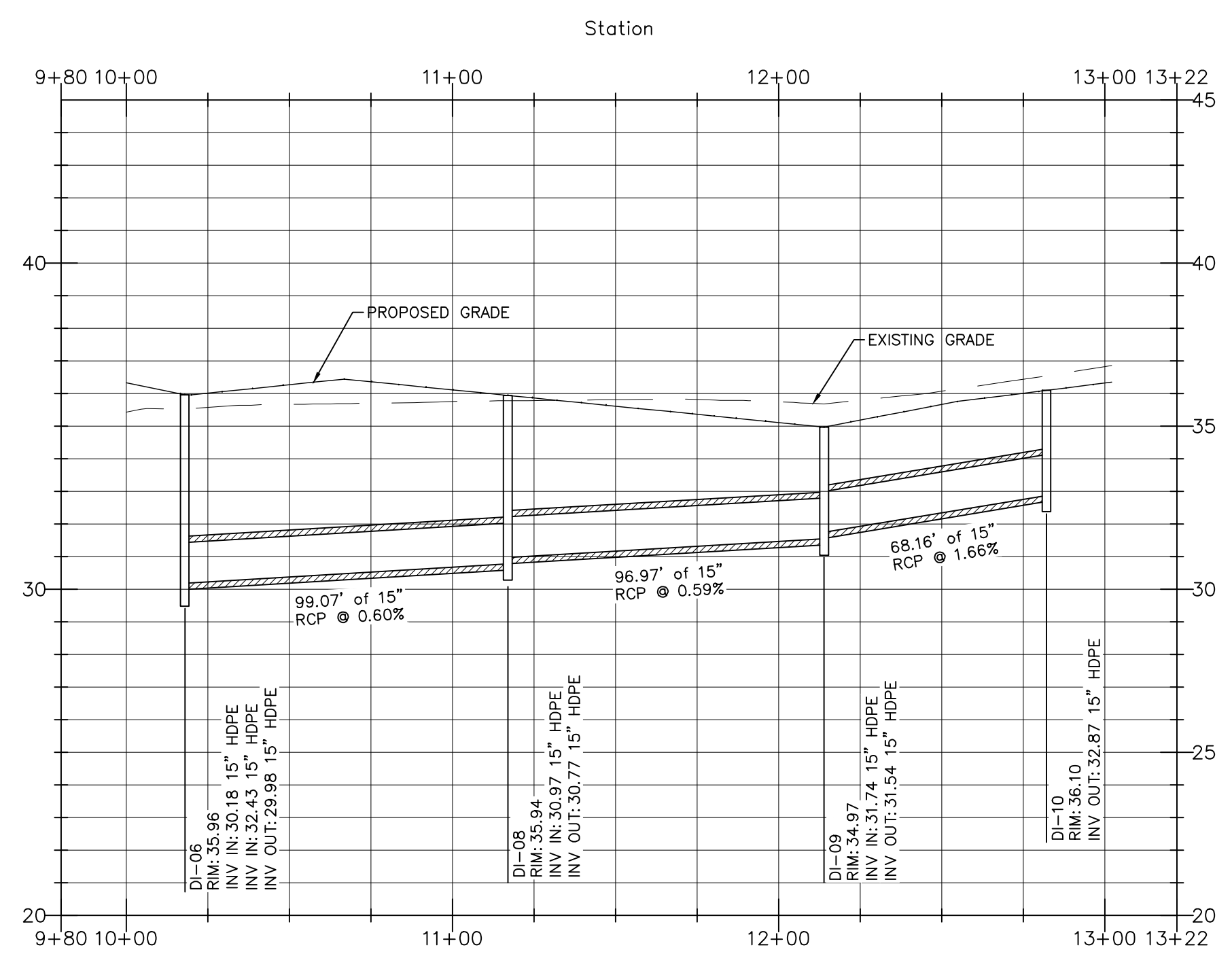
ST-01 PROFILE



ST-02 PROFILE



ST-03 PROFILE



GENERAL NOTES

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RICHLANDS, ONWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

STRUCTURE NOTES

- 1. "RIM" OF DI IS TOP OF GRATE.

CONSTRUCTION DRAWINGS FOR: RICHLANDS MARRIOTT 135 KOONCE FORK ROAD RICHLANDS, NORTH CAROLINA

Drawn By: BRK Checked By: SRN

DATE: PROGRESS

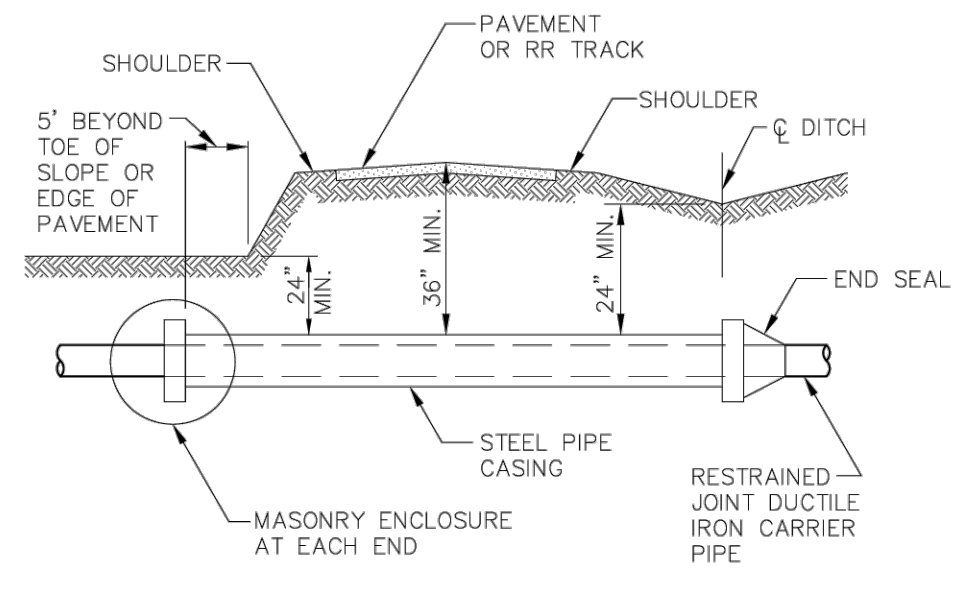
CONSTRUCTION DRAWINGS

STORM PLAN & PROFILE

Job Code: WCRH

Dwg No. SITE 600

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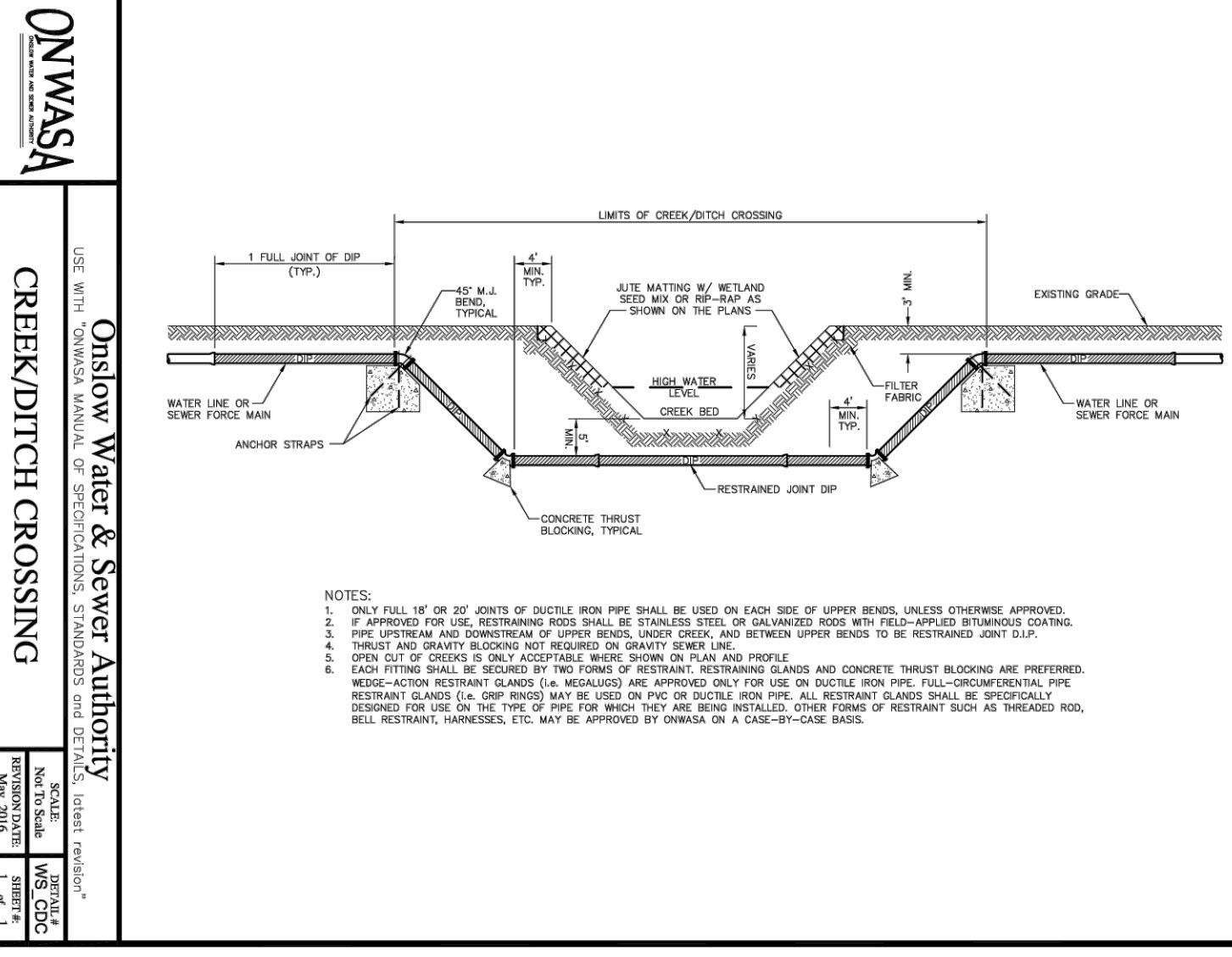


TYPICAL PIPE CROSSING

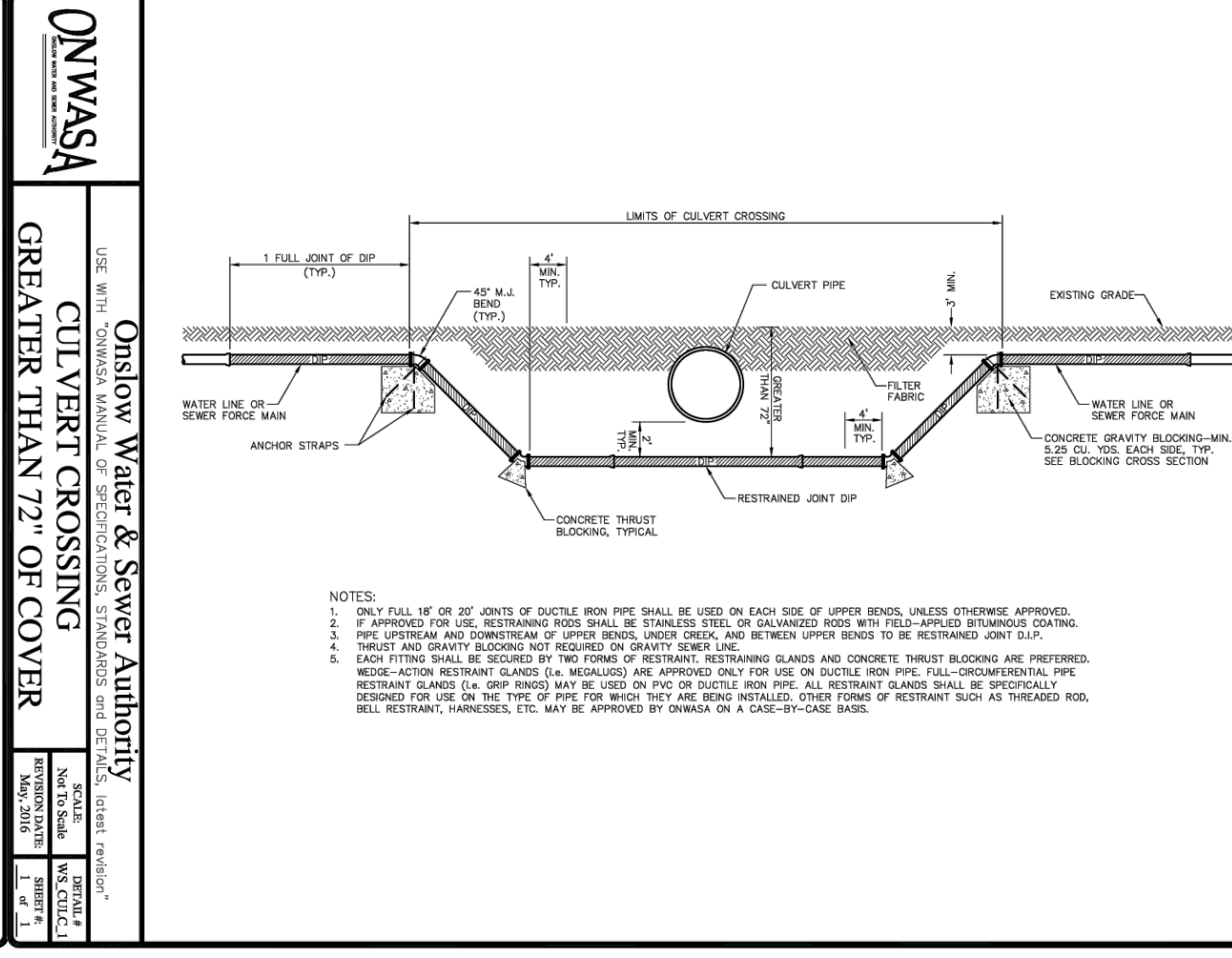
ENCASEMENTS SHALL EXTEND FROM DITCH LINE TO DITCH LINE IN CUT SECTIONS, FIVE (5) FEET BEYOND THE TOE OF SLOPES IN FILL SECTIONS, AND TEN (10) FEET BEYOND EDGE OF PAVEMENT IN SECTIONS WITH NO DITCH OR FILL AREA.

- NOTES:
1. STEEL ENCASUREMENT PIPE SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
 2. CARRIER PIPE SHALL BE ADEQUATELY SUPPORTED THE ENTIRE LENGTH WITHIN THE CASING BY USING SPACERS OR "SPIED" STEEL SUPPORTS AT A MAXIMUM OF 9 FOOT CENTERS (ONE AT EACH JOINT AND ONE INTERMEDIATE). OTHER METHODS MUST MEET APPROVAL OF THE ENGINEER.

Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
DRY BORE AND JACK PIPE ENCASMENT
 SCALE: Not To Scale DETAIL # WS_B&J
 REVISION DATE: May, 2016 1 of 1

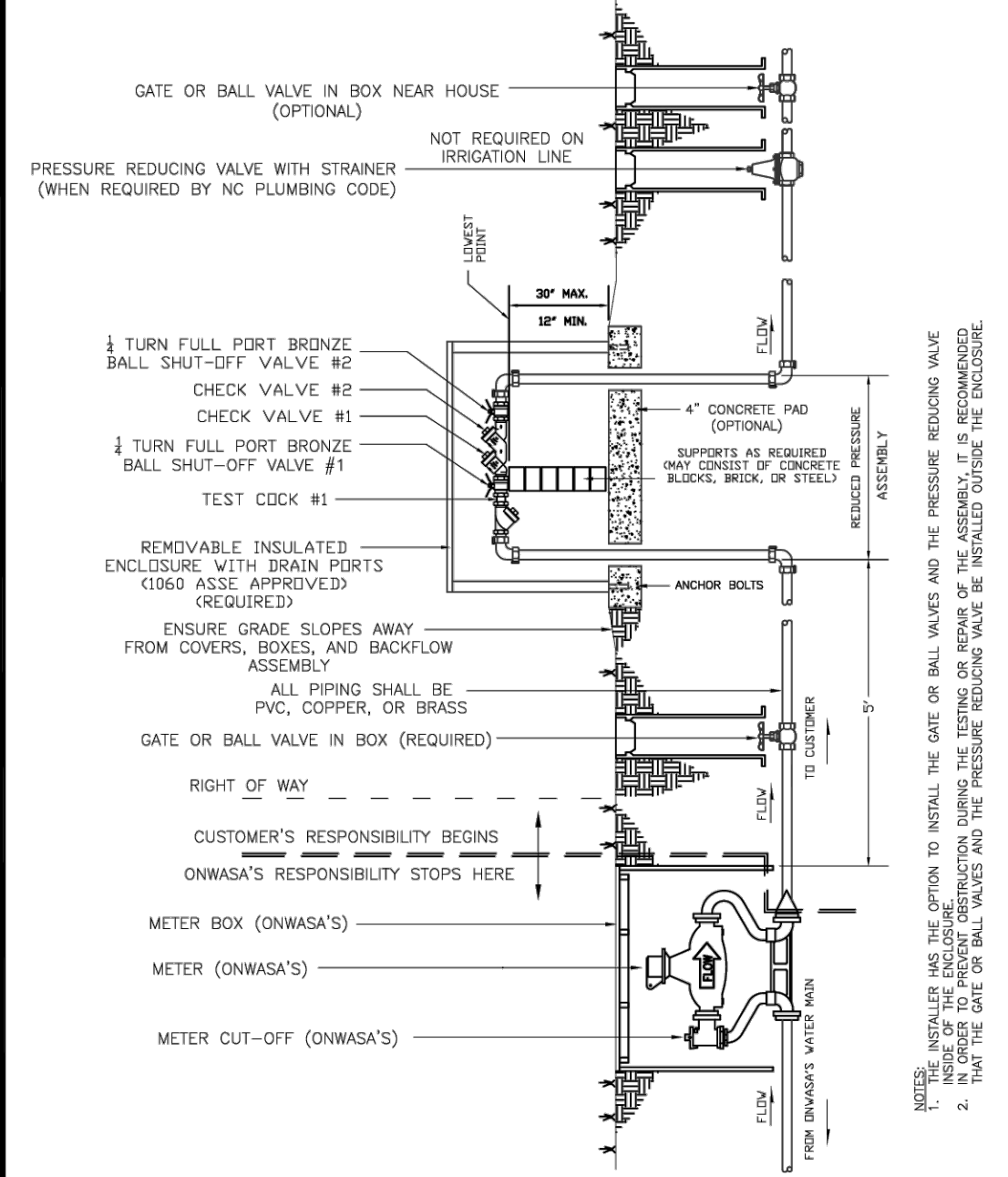


- NOTES:
1. ONLY FULL 1/2" OR 3/4" JOINTS OF DUCTILE IRON PIPE SHALL BE USED ON EACH SIDE OF UPPER BENDS UNLESS OTHERWISE APPROVED.
 2. IF APPROVED FOR USE, RESTRAINTS SHALL BE STAINLESS STEEL OR GALVANIZED IRON WITH FELL-APPLIED RETARDING COATING.
 3. THE UPPER AND LOWER SURFACES OF UPPER BENDS, LOWER BENDS, AND WITHIN UPPER BENDS TO BE RESTRAINED JOINT D.I.P.
 4. THRUST AND GRAVITY BLOODING NOT REQUIRED ON GRAVITY SEWER LINE.
 5. OPEN JOINT OF COVERS TO ONE ACCEPTABLE BENCH PIONEER ON EACH SIDE.
 6. EACH FITTING SHALL BE SECURED BY TWO FORMS OF RESTRAINT: RESTRAINING GLANDS AND CONCRETE THRUST BLOODING ARE PREFERRED.
 7. RESTRAINT GLANDS (A JOINT BEND) MAY BE USED ON DUCTILE IRON PIPE. ALL RESTRAINT GLANDS SHALL BE SPECIFICALLY DESIGNED FOR USE ON THE PIPE OF PIPE FOR BEND. THEY ARE NOT INSTALLED OTHER FORMS OF RESTRAINT SUCH AS THREADED ROD, BELL RESTRAINT, FRANCHISES, ETC. MAY BE APPROVED BY ONWSA ON A CASE-BY-CASE BASIS.

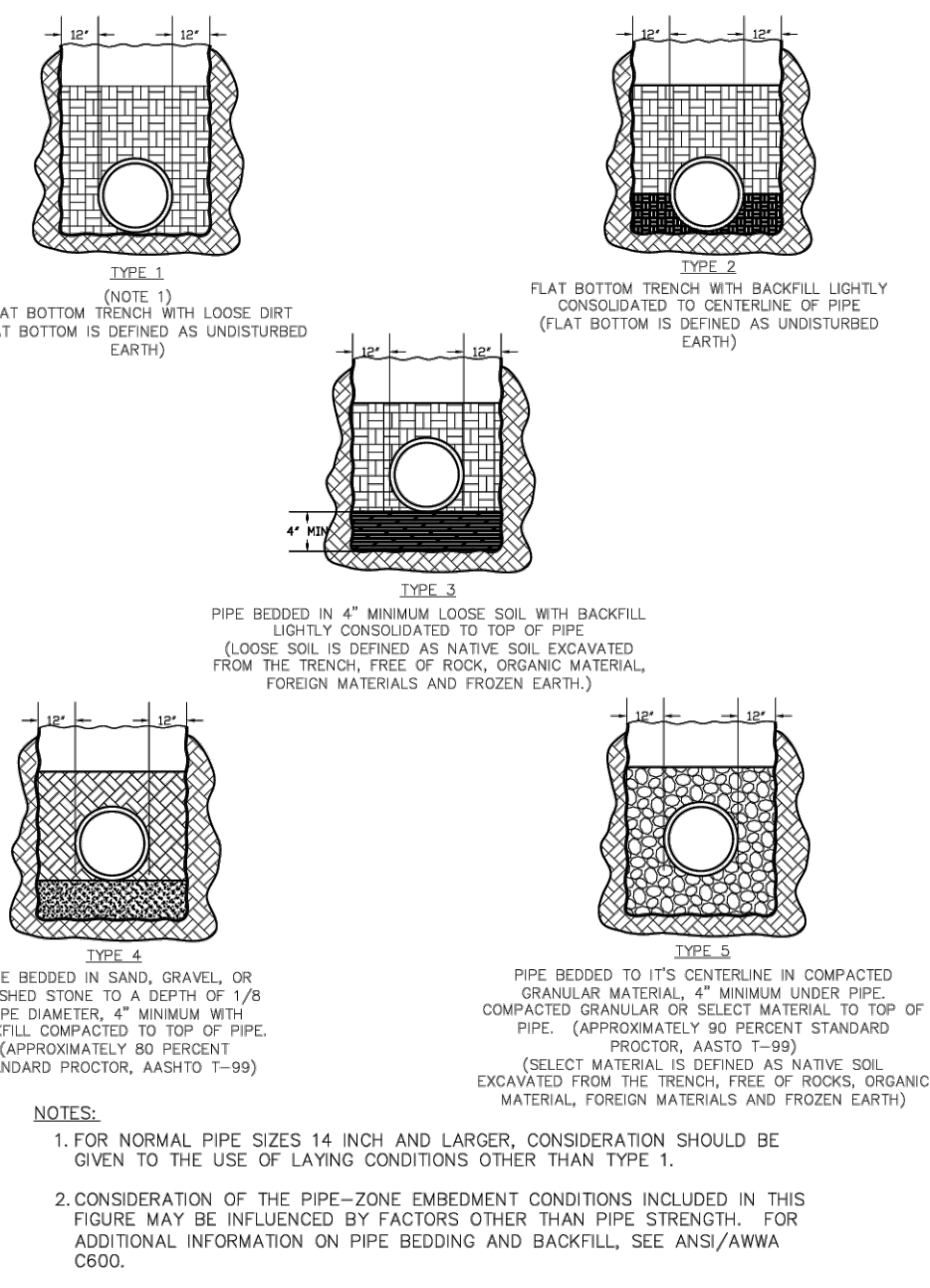


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Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
CULVERT CROSSING GREATER THAN 72" OF COVER
 SCALE: Not To Scale DETAIL # WS_CV
 REVISION DATE: May, 2016 1 of 1



Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
3/4" - 2" Meter DCVA with PRV Assembly
 SCALE: Not To Scale DETAIL # WS_DCVA
 REVISION DATE: May, 2016 1 of 1



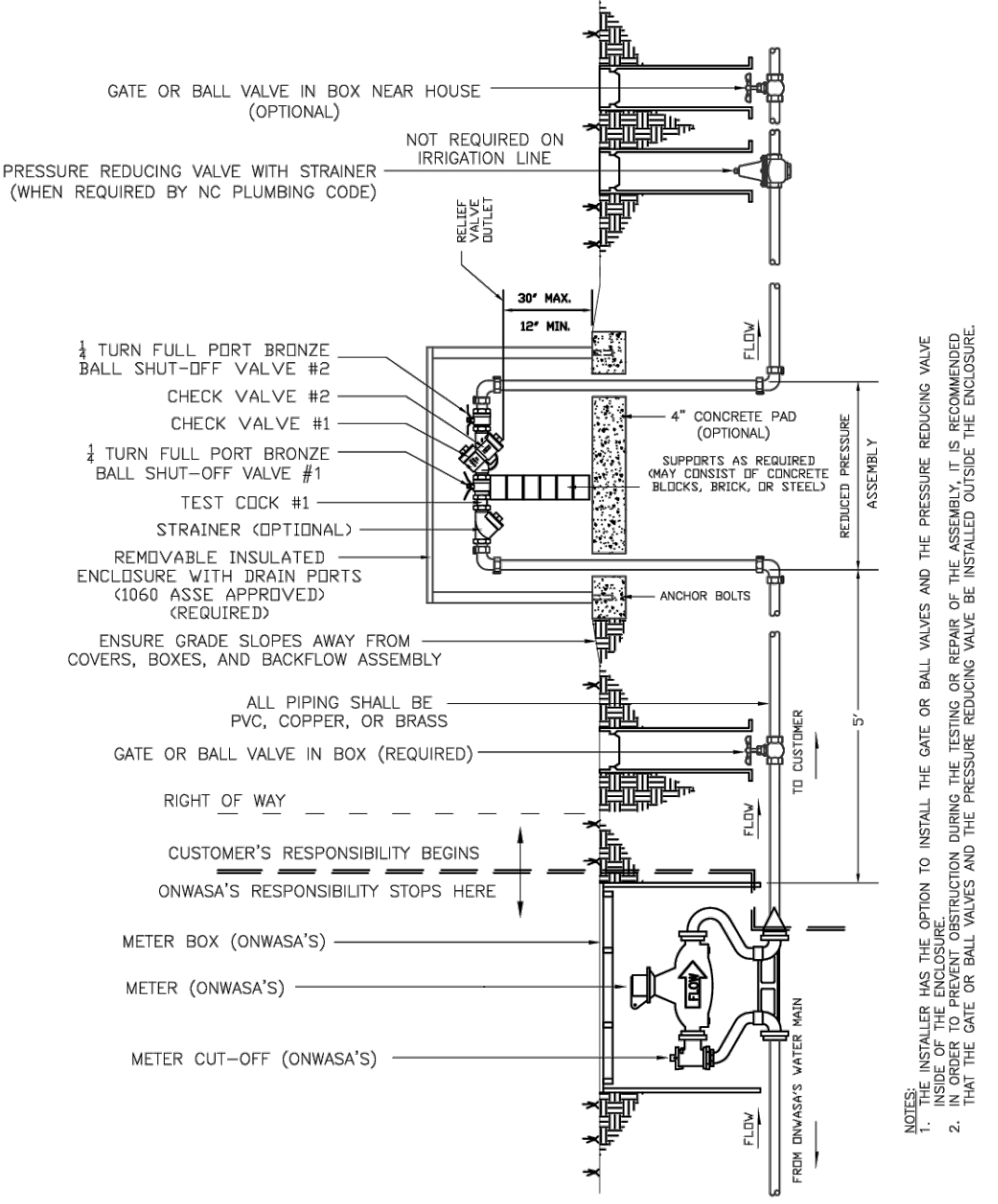
- NOTES:
1. FOR NORMAL PIPE SIZES 14 INCH AND LARGER, CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
 2. CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCED BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE ANSI/AWWA C600.

Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
WATER MAIN EMBEDMENT DETAILS
 SCALE: Not To Scale DETAIL # WS_ED
 REVISION DATE: May, 2016 1 of 1

- REQUIREMENTS FOR ABOVE GROUND INSTALLATIONS OF REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE ASSEMBLIES
1. The backflow preventer must be installed a Maximum distance of five (5) feet from the meter service or before any wyes, tees, or bypasses. Installation of backflow preventers within the DOT right-of-way will not be accepted, it must be installed on the customer's property.
 2. Reduced pressure principle assemblies must be installed in a horizontal position and so located in which no portion of the assembly can become submerged under any circumstances.
 3. Double check valves can be installed in a vertical position provided the water flows in an upward direction.
 4. All backflow preventers must be installed above ground. Backflow preventers installed inside must be a minimum of twelve (12) inches above the floor, and no higher than four (4) feet above the floor. Customer must maintain adequate clearance around the assembly for testing, and/or repair of the assembly. Wherever a reduced pressure principle backflow preventer is installed inside a building an air gap drain of adequate size must be installed. Below ground installations are prohibited for RP's. Surface or Sub-surface obstacles which prohibit the installation of the device in accordance with the specifications shall be subject to the review and approval of the Engineering Director for alternative locations.
 5. Backflow prevention assemblies installed outside must be protected with an ASSE 1060 approved enclosure. The assembly must maintain a minimum distance of twelve (12) inches and a maximum distance of thirty (30) inches above the ground. Landscaping is allowed around any assembly provided it does not interfere with the testing and/or repairing of the assembly.
 6. Protective enclosures must be used to prevent freezing or vandalism for backflow prevention assemblies installed outside above ground. Freeze proof enclosures that meet or exceed North Carolina Plumbing Code Standards are acceptable provided that the insulation is at least 7.05 R factor, and have the 1060 ASSE approval plate. Adequate drainage shall be provided by a hinged door or drain ports along the bottom walls of the protective enclosure. The enclosure will require to be mounted to the ground or existing grade. If the structure is not removable it must be accessible by doors large enough for entrance and repair.
 7. Backflow prevention assemblies two and one half (2 1/2) inches or larger must be supported to allow for the weight of the backflow prevention assembly. Support construction consist of concrete block, brick or steel. Supports must have a proper footing to rest on. Supports should be spaced so they do not cause interference with the testing and/or repair of the assemblies.
 8. All piping must be of ductile iron, pvc, copper, or brass.
 9. All backflow prevention assembly installations shall be inspected by the Onslow Water and Sewer Authority Technical Operations Section or an authorized representative prior to initial connection to the potable water system.
 10. Before installation of any backflow preventer, contact the Backflow Cross Connection CRC at 910-455-0722 to assist in proper selection and installation.

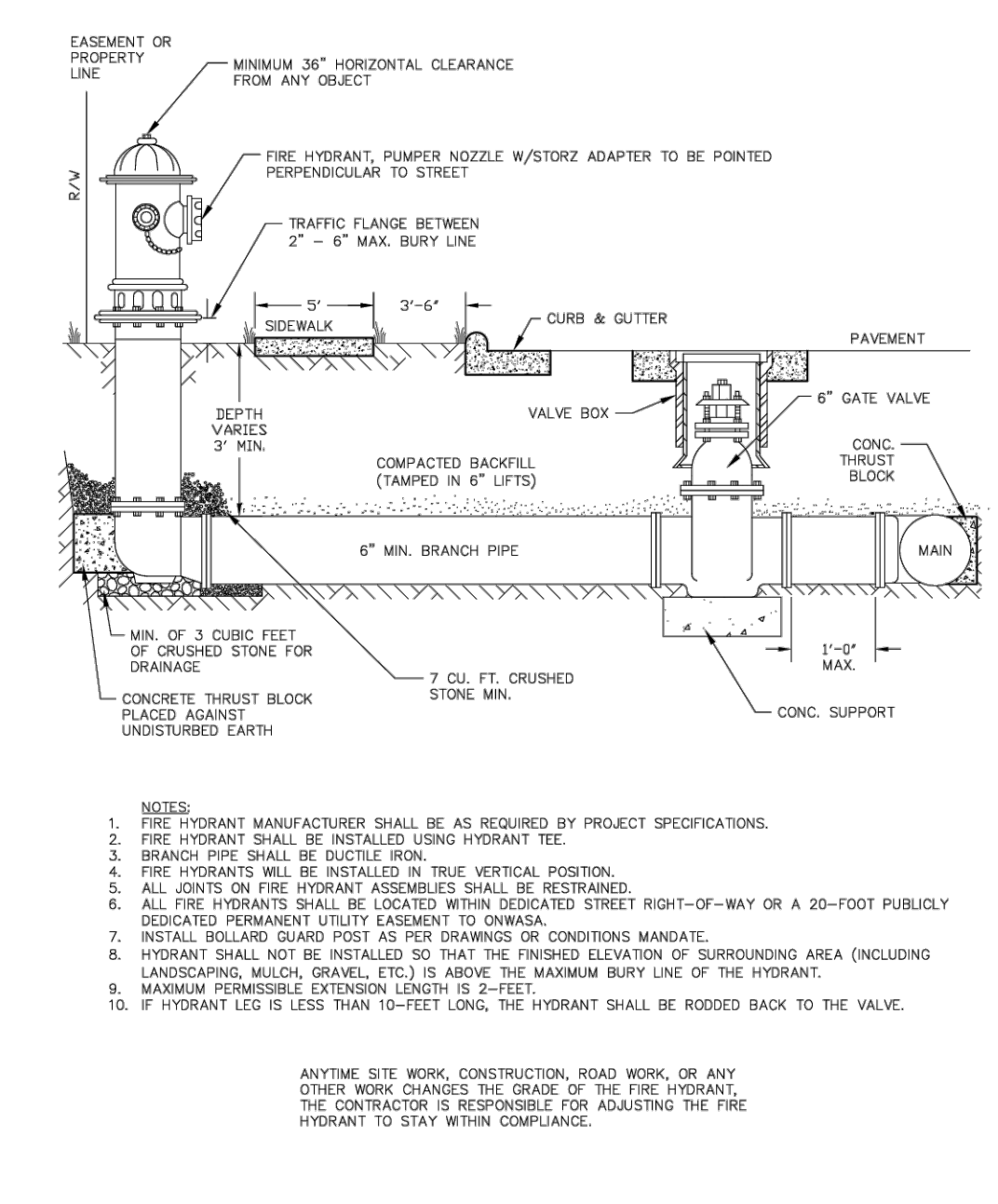
Note: Appendices within these regulations are subject to change periodically or as required by the State of North Carolina.

Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
3/4" to 2" Meter RP/DCVA/PRV Assembly
 SCALE: Not To Scale DETAIL # WS_PRV
 REVISION DATE: May, 2016 1 of 1



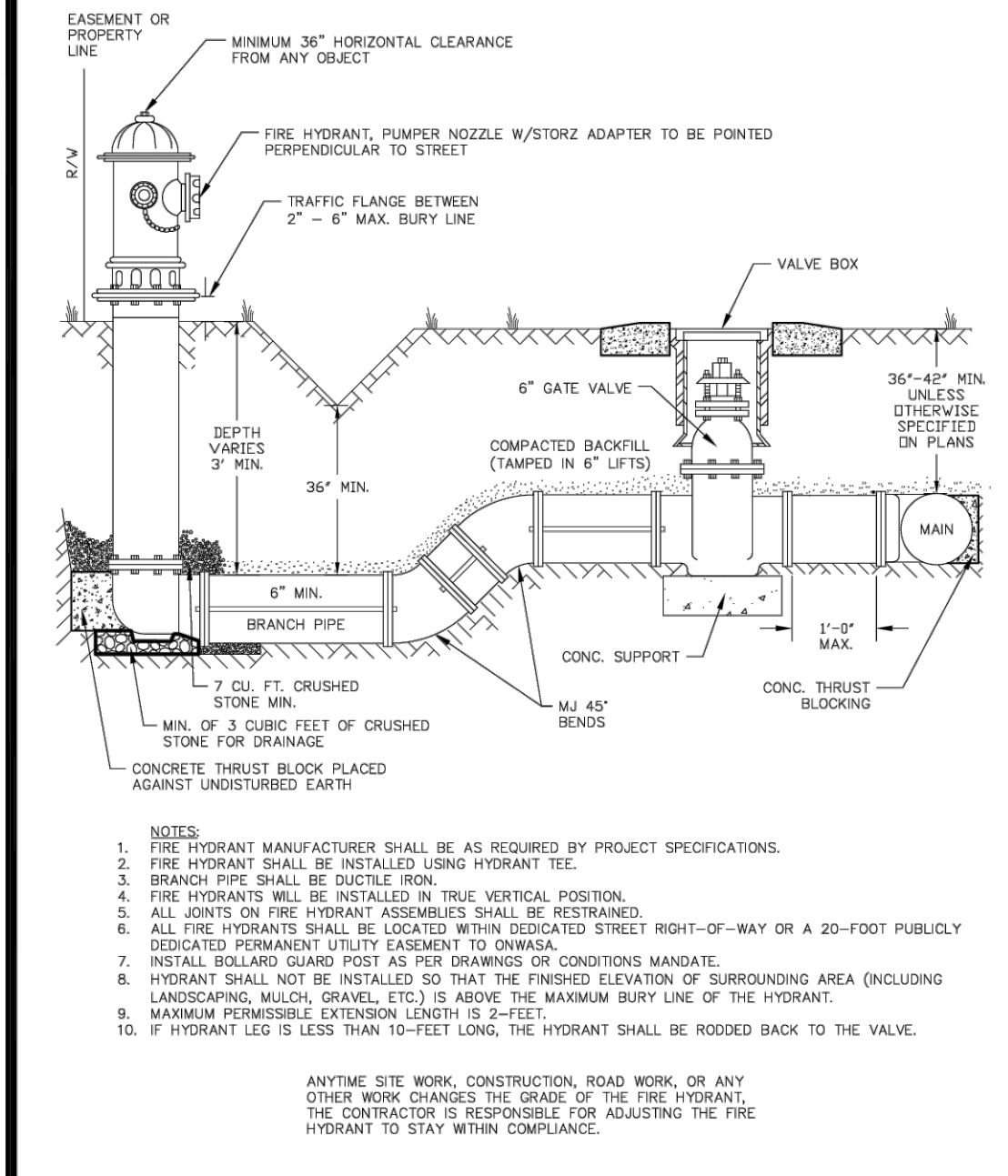
- NOTES:
1. FIRE HYDRANT MANUFACTURER SHALL BE AS REQUIRED BY PROJECT SPECIFICATIONS.
 2. FIRE HYDRANT SHALL BE INSTALLED USING HYDRANT TEE.
 3. BRANCH PIPE SHALL BE DUCTILE IRON.
 4. ALL JOINTS ON FIRE HYDRANT ASSEMBLY SHALL BE RESTRAINED.
 5. ALL FIRE HYDRANTS SHALL BE LOCATED WITHIN DEDICATED STREET RIGHT-OF-WAY OR A 20-FOOT PUBLICLY DEDICATED PERMANENT UTILITY EASEMENT TO ONWSA.
 6. INSTALL BOLLARD GUARD POST AS PER DRAWINGS OR CONDITIONS MANDATE.
 7. HYDRANT SHALL NOT BE INSTALLED SO THAT THE FINISHED ELEVATION OF SURROUNDING AREA (INCLUDING LANDSCAPING, MULCH, GRAVEL, ETC.) IS ABOVE THE MAXIMUM BURY LINE OF THE HYDRANT.
 8. MAXIMUM PERMISSIBLE EXTENSION LENGTH IS 2'-FEET.
 9. IF HYDRANT LEG IS LESS THAN 10'-FEET LONG, THE HYDRANT SHALL BE RODDED BACK TO THE VALVE.

Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
3/4" - 2" Meter RP Assembly with PRV Assembly
 SCALE: Not To Scale DETAIL # WS_PRV
 REVISION DATE: May, 2016 1 of 1



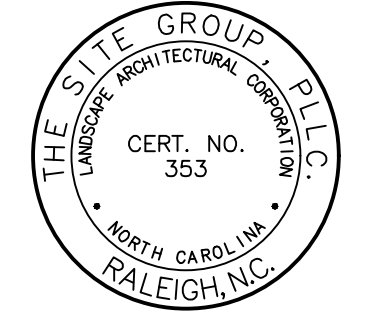
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Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
FIRE HYDRANT ASSEMBLY CURB AND GUTTER SECTION
 SCALE: Not To Scale DETAIL # WS_FFHC
 REVISION DATE: May, 2016 1 of 1



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 5. ALL FIRE HYDRANTS SHALL BE LOCATED WITHIN DEDICATED STREET RIGHT-OF-WAY OR A 20-FOOT PUBLICLY DEDICATED PERMANENT UTILITY EASEMENT TO ONWSA.
 6. INSTALL BOLLARD GUARD POST AS PER DRAWINGS OR CONDITIONS MANDATE.
 7. HYDRANT SHALL NOT BE INSTALLED SO THAT THE FINISHED ELEVATION OF SURROUNDING AREA (INCLUDING LANDSCAPING, MULCH, GRAVEL, ETC.) IS ABOVE THE MAXIMUM BURY LINE OF THE HYDRANT.
 8. MAXIMUM PERMISSIBLE EXTENSION LENGTH IS 2'-FEET.
 9. IF HYDRANT LEG IS LESS THAN 10'-FEET LONG, THE HYDRANT SHALL BE RODDED BACK TO THE VALVE.

Onslow Water & Sewer Authority
 USE WITH ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision.
FIRE HYDRANT ASSEMBLY SHOULDER / DITCH SECTION
 SCALE: Not To Scale DETAIL # WS_FFHD
 REVISION DATE: May, 2016 1 of 1



PROGRESS
 12 NOV 2025

THE SITE GROUP
 CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
 THE SITE GROUP, P.L.L.C.
 10000 NC-27608-1136 USA
 Raleigh, NC 919.835.4787
 Office: 919.839.2255
 Fax: 919.839.2255
 E Mail: SRN@thesitegroup.net

CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
 135 KOONCE FORK ROAD
 RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
 Checked By: **SRN**

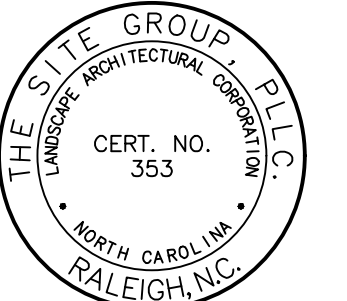
DATE:
 PROGRESS

CONSTRUCTION DRAWINGS

SITE DETAILS

Job Code: **WCRH**

Dwg No.
SITE 701



PROGRESS
12 NOV 2025

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, P.L.L.C.
10000 Old Forest Road
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CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
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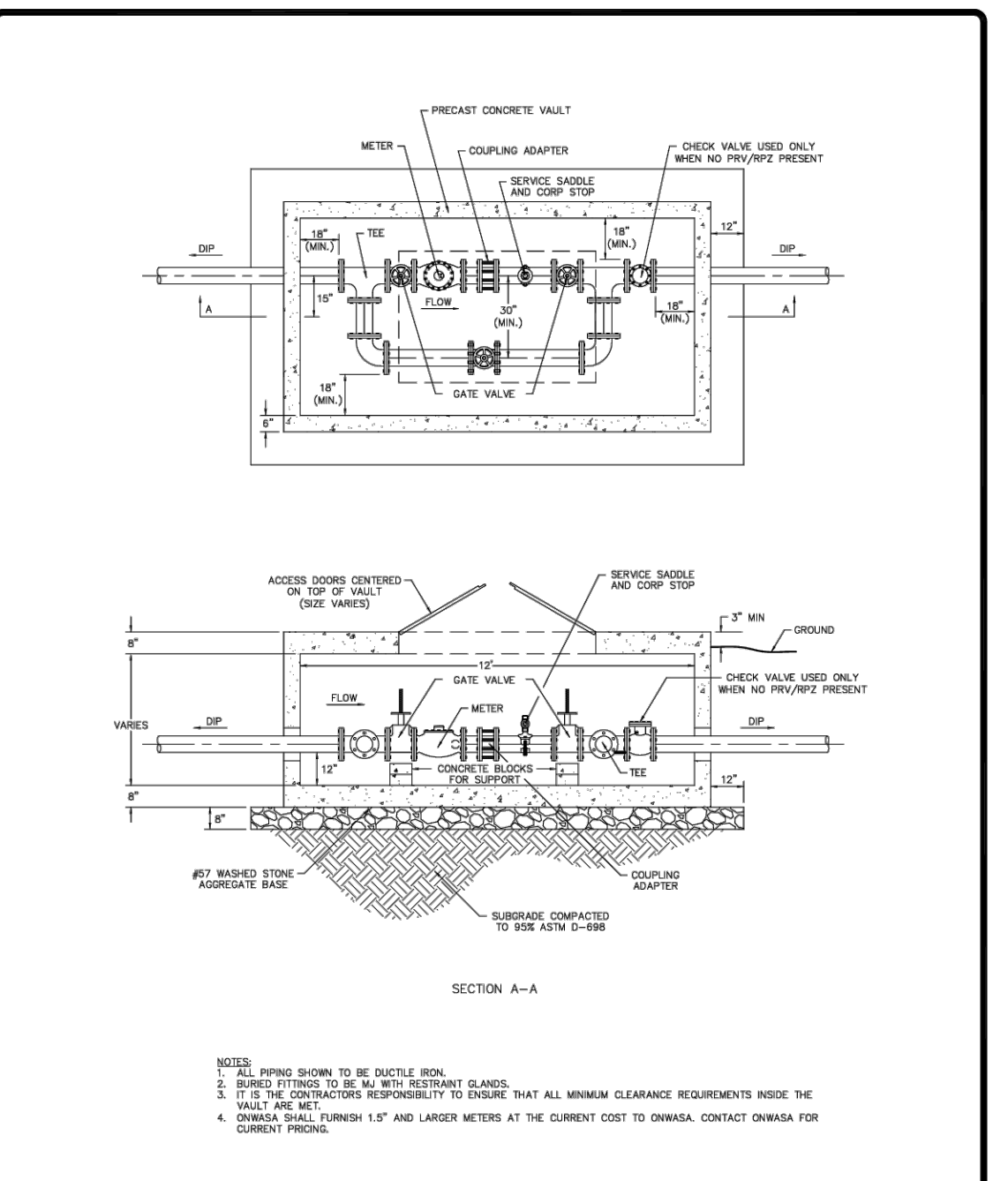
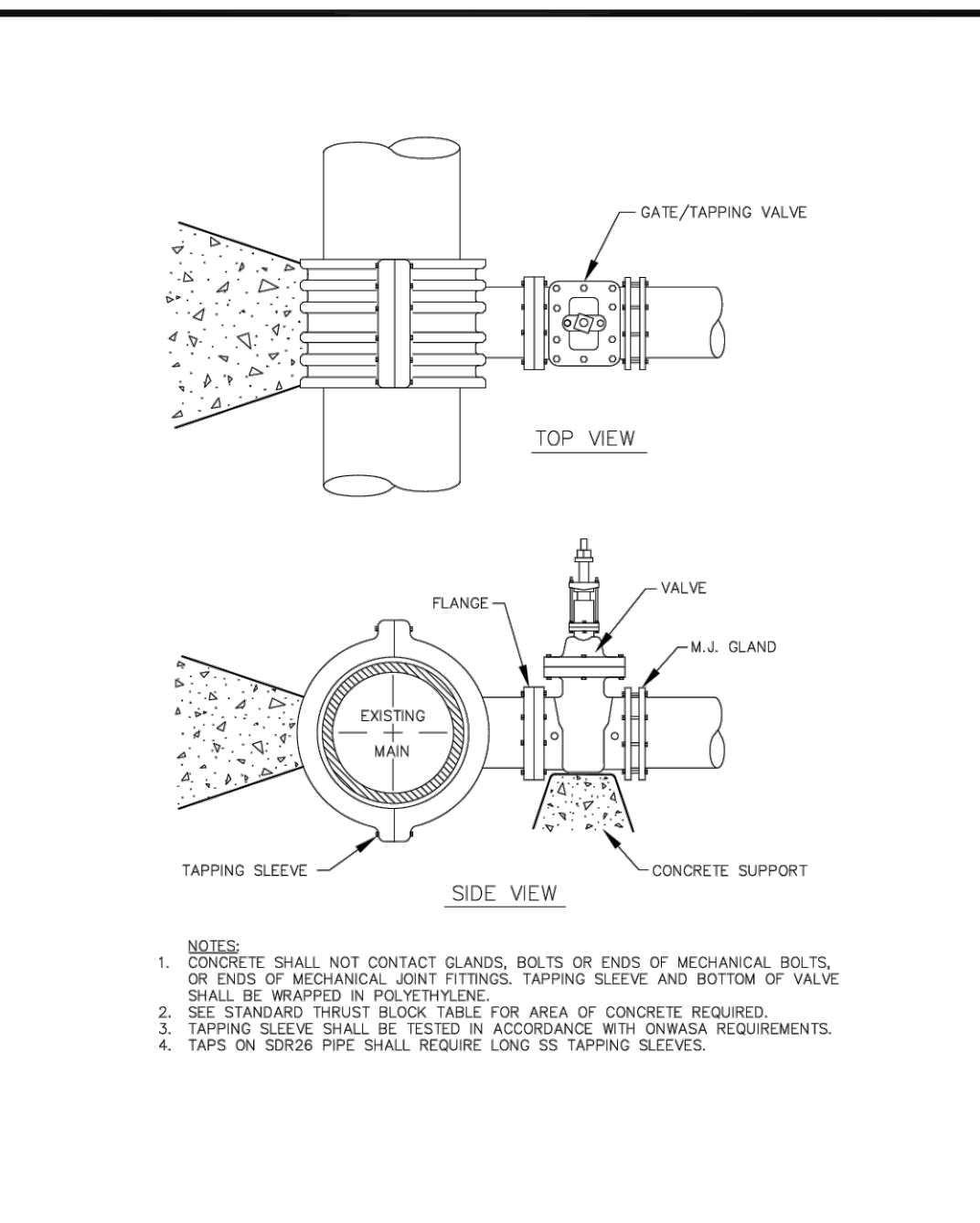
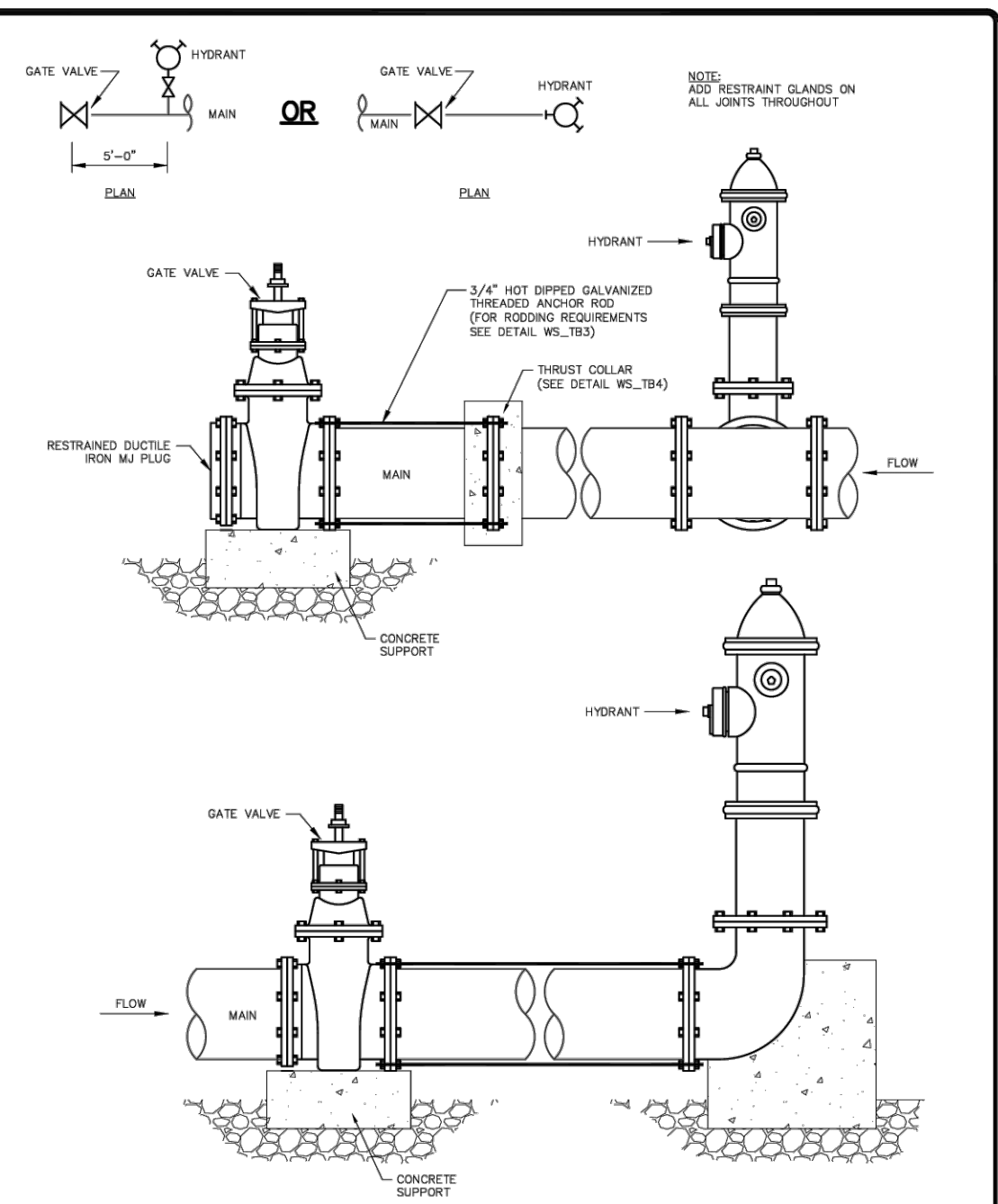
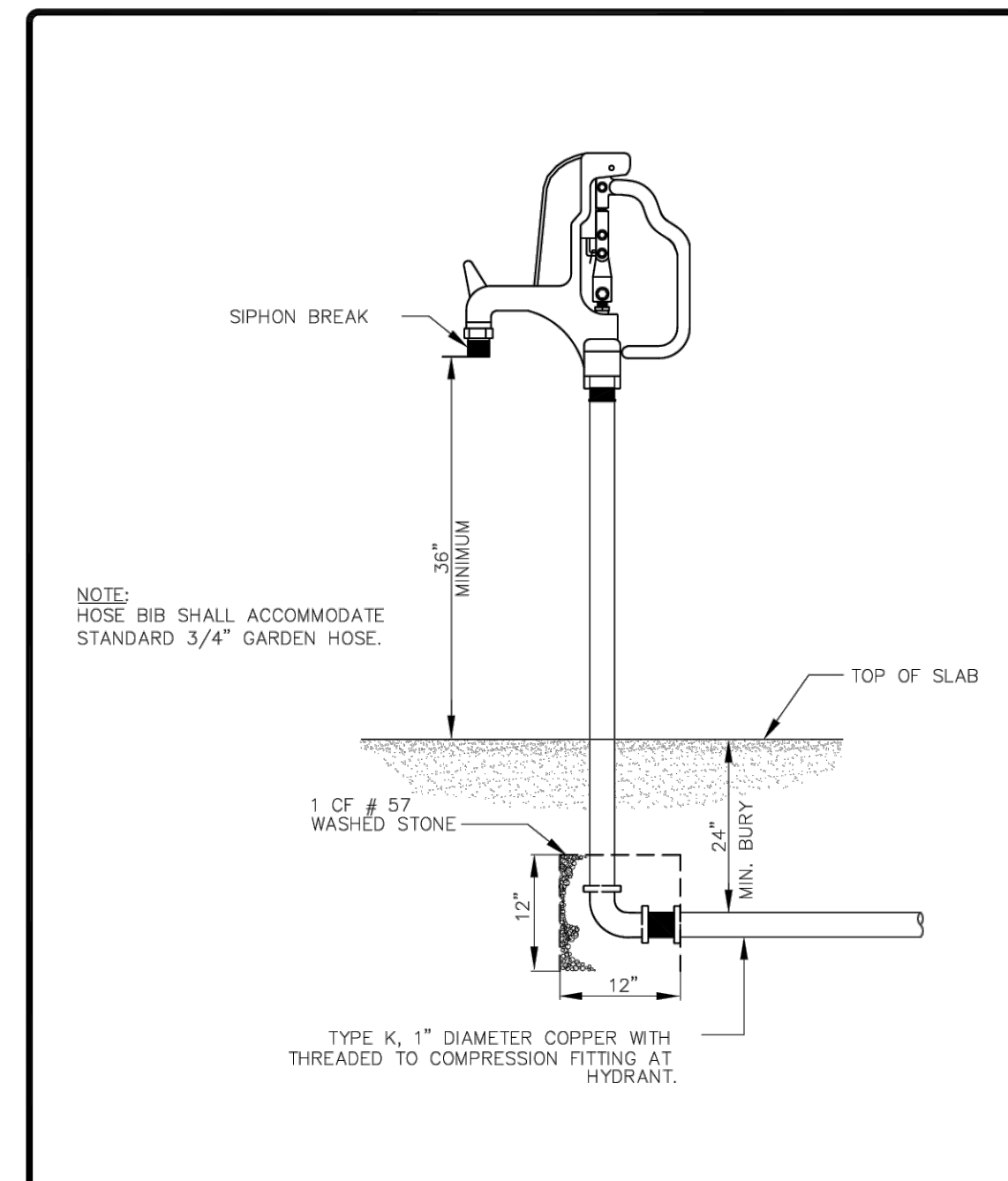
DATE:
PROGRESS

CONSTRUCTION DRAWINGS

SITE DETAILS

Job Code: **WCRH**

Dwg No.
SITE 702

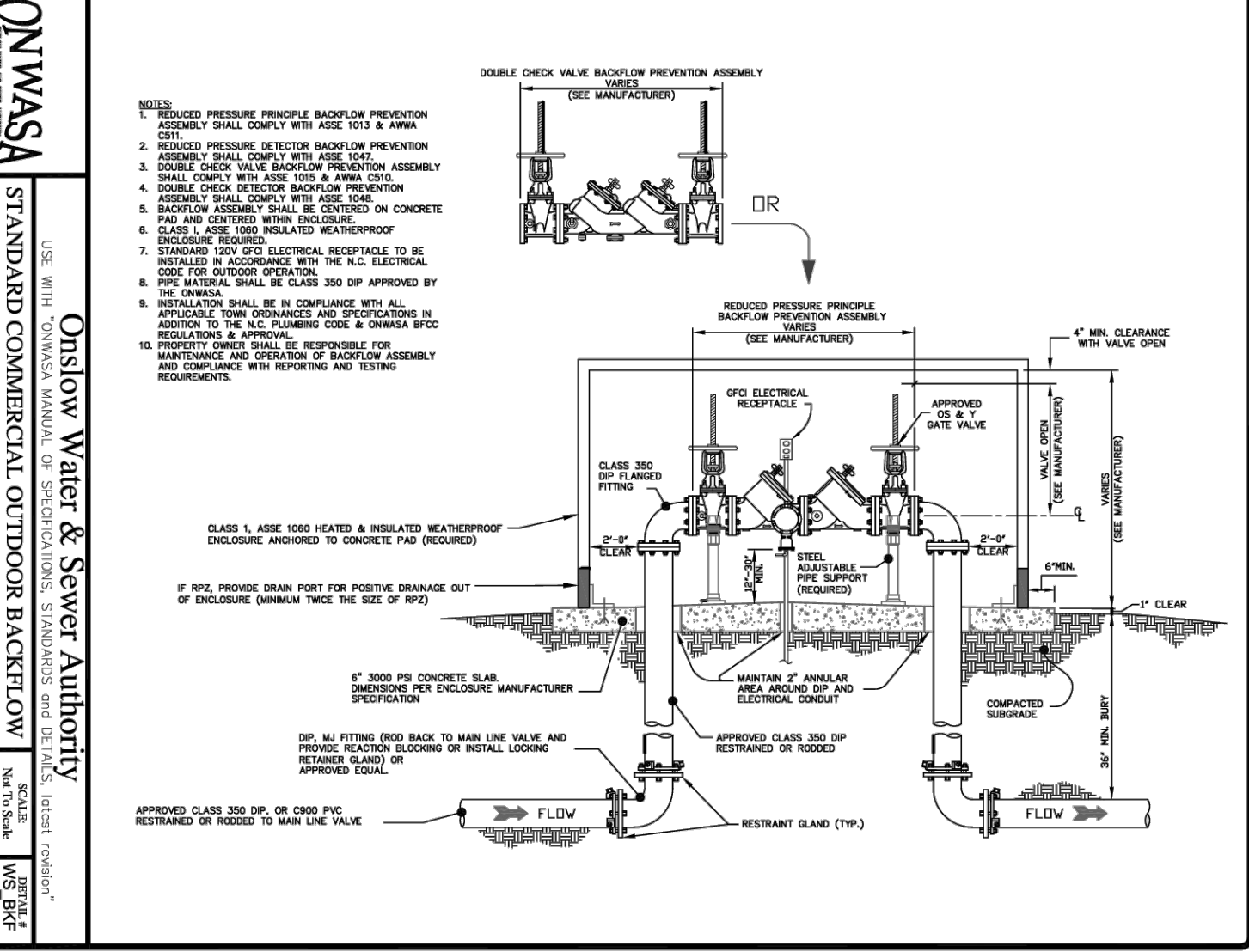
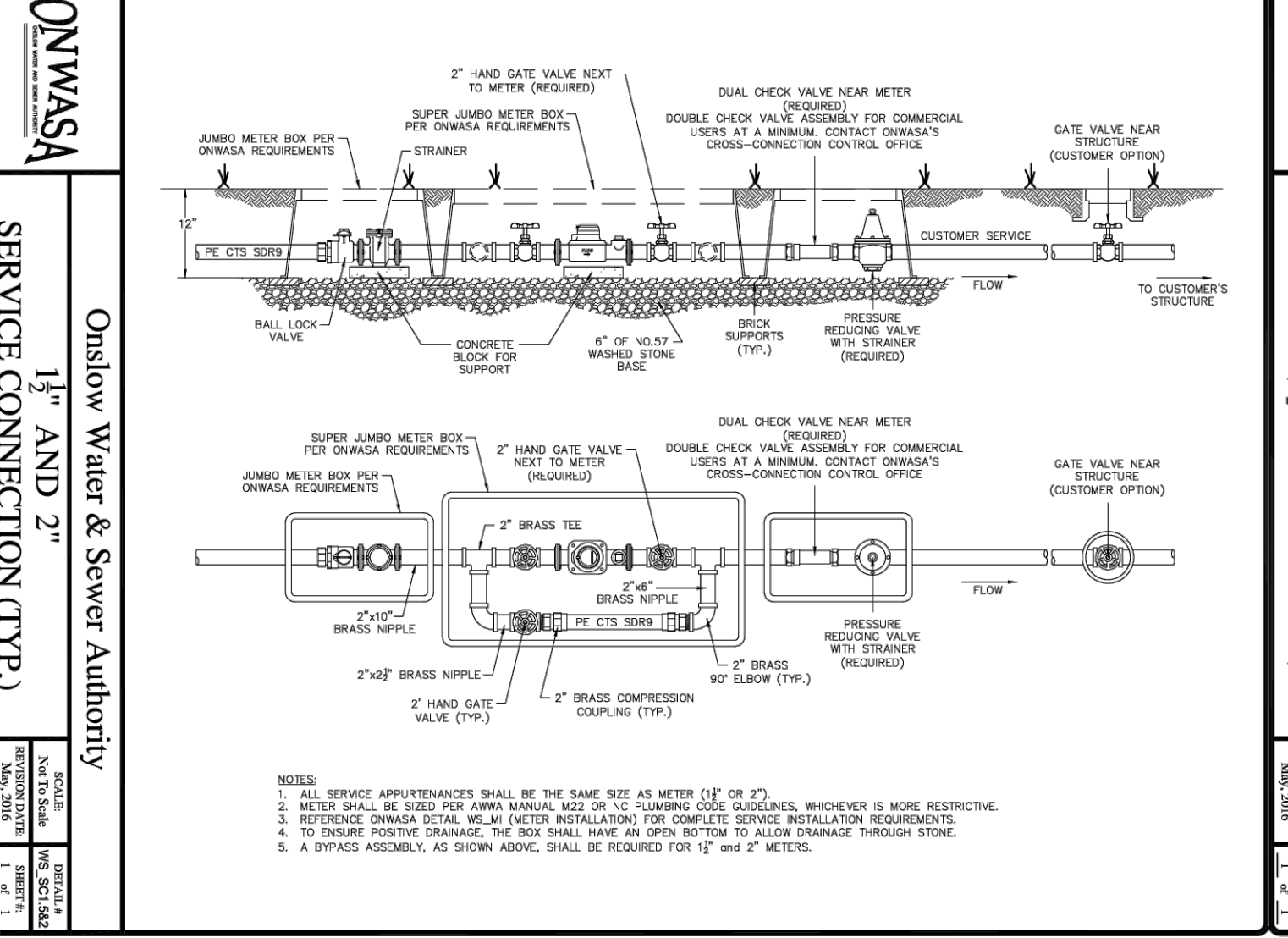
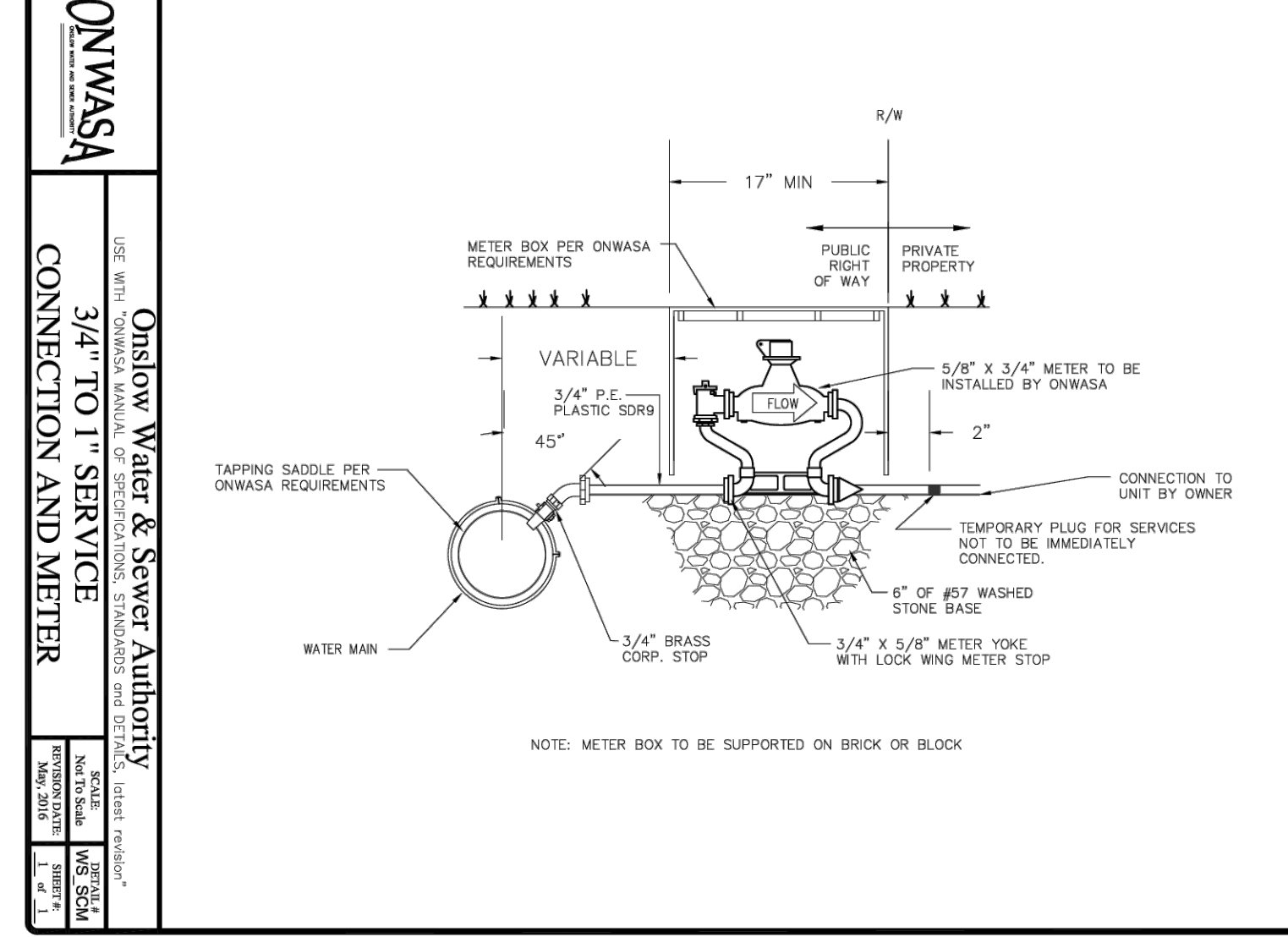


Onslow Water & Sewer Authority
YARD HYDRANT
NON-FREEZE
SCALE: Not To Scale
REVISION DATE: May, 2016
DETAIL: WS_YH
SHEET NO. 1 OF 1

Onslow Water & Sewer Authority
DEAD END
LINE ASSEMBLY
SCALE: Not To Scale
REVISION DATE: May, 2016
DETAIL: WS_DE
SHEET NO. 1 OF 1

Onslow Water & Sewer Authority
4\"/>

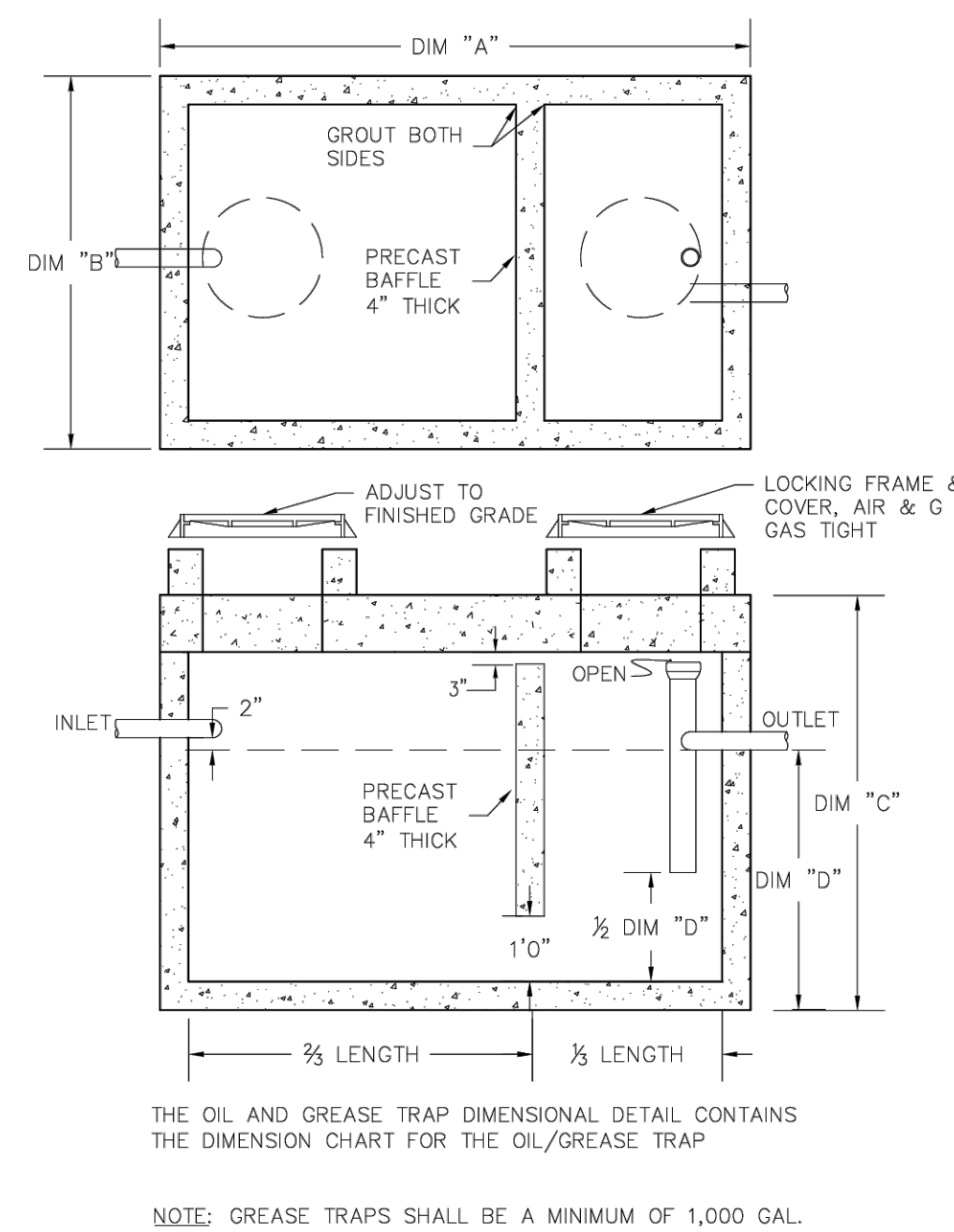
Onslow Water & Sewer Authority
METER VAULT INSTALLATION
3-INCH AND LARGER
SCALE: Not To Scale
REVISION DATE: May, 2016
DETAIL: WS_MV3
SHEET NO. 1 OF 1



Onslow Water & Sewer Authority
3/4\"/>

Onslow Water & Sewer Authority
STANDARD COMMERCIAL OUTDOOR BACKFLOW ASSEMBLY (2\"/>

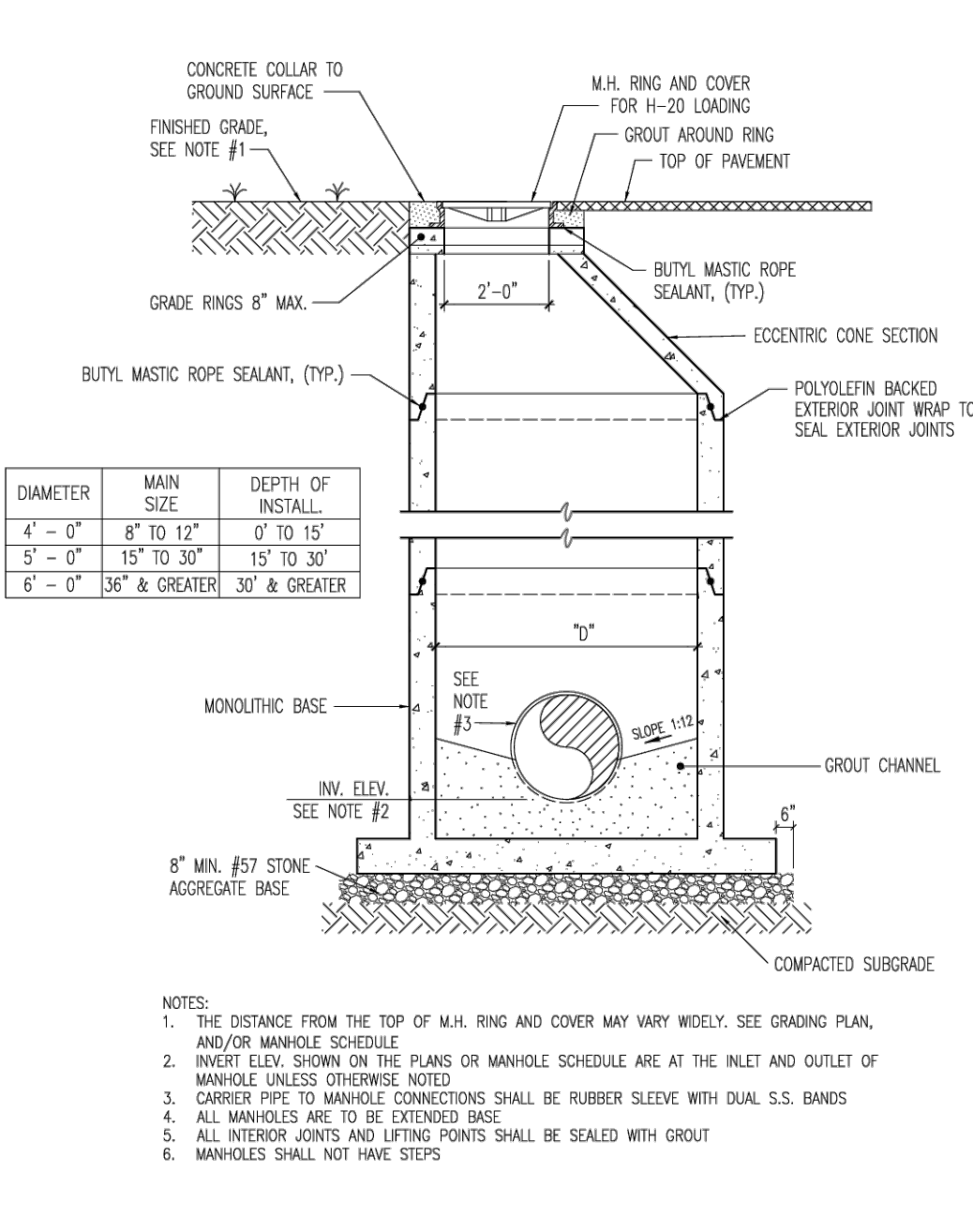
Onslow Water & Sewer Authority
METER BOX AND TAPPING SADDLE ASSEMBLY



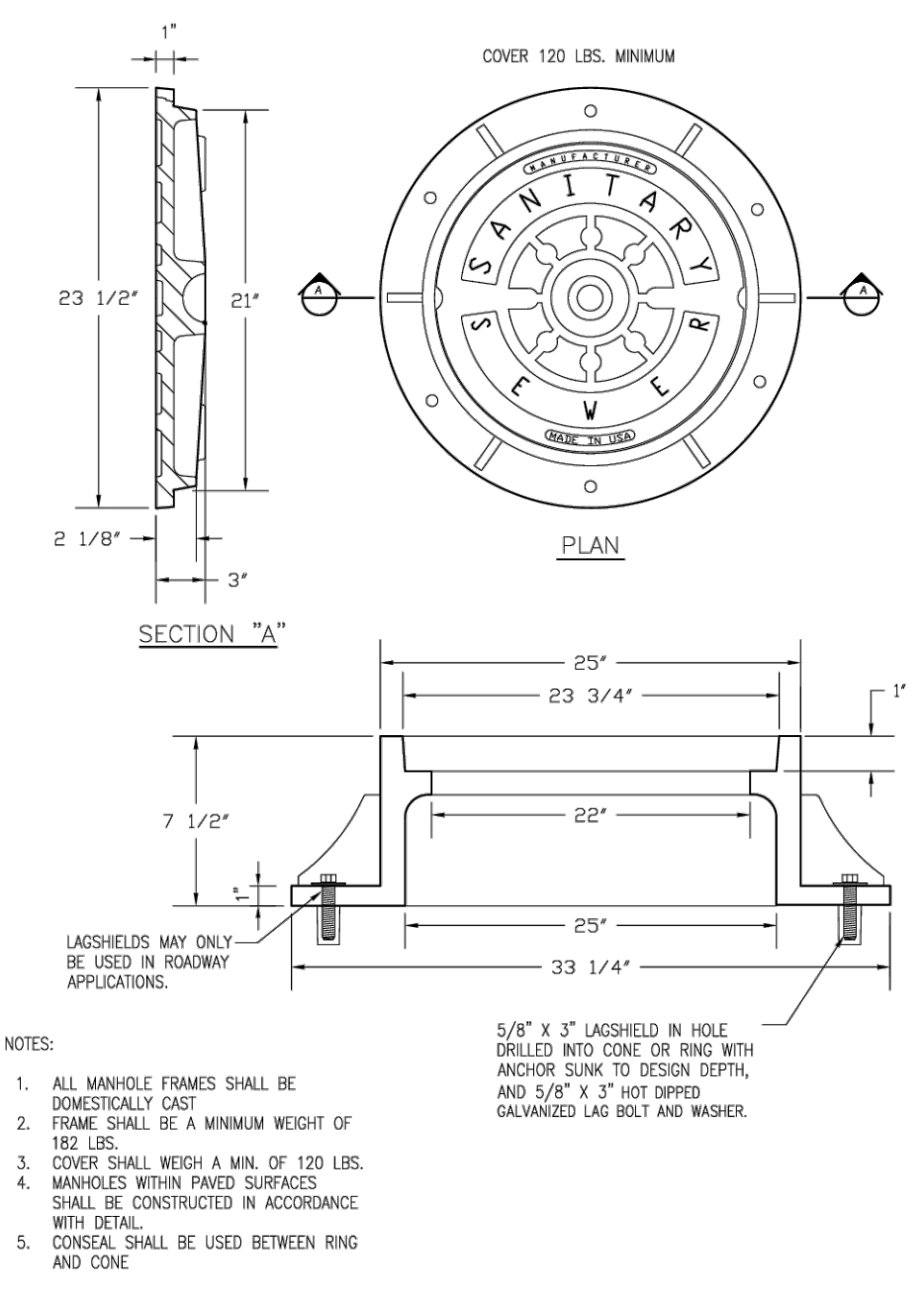
**OIL AND GREASE TRAP
DIMENSION CHART**

CAP (GAL.)	DIM "A"	DIM "B"	DIM "C"	DIM "D"
1000	9'0"	5'0"	7'2"	4'2"
1250	9'0"	5'0"	7'2"	5'2"
1500	11'2"	5'8"	7'2"	4'4"
1750	11'2"	5'8"	7'2"	4'11"
2000	12'8"	6'8"	8'0"	4'7"
2500	12'8"	6'8"	8'0"	5'6"
2750	12'8"	6'8"	8'0"	6'0"
3000	15'7"	9'7"	8'6.5"	5'0"
4000	15'7"	9'7"	8'6.5"	6'3"
5000	19'11"	9'11"	8'11"	6'2"
6000	19'11"	9'11"	10'5"	7'2"

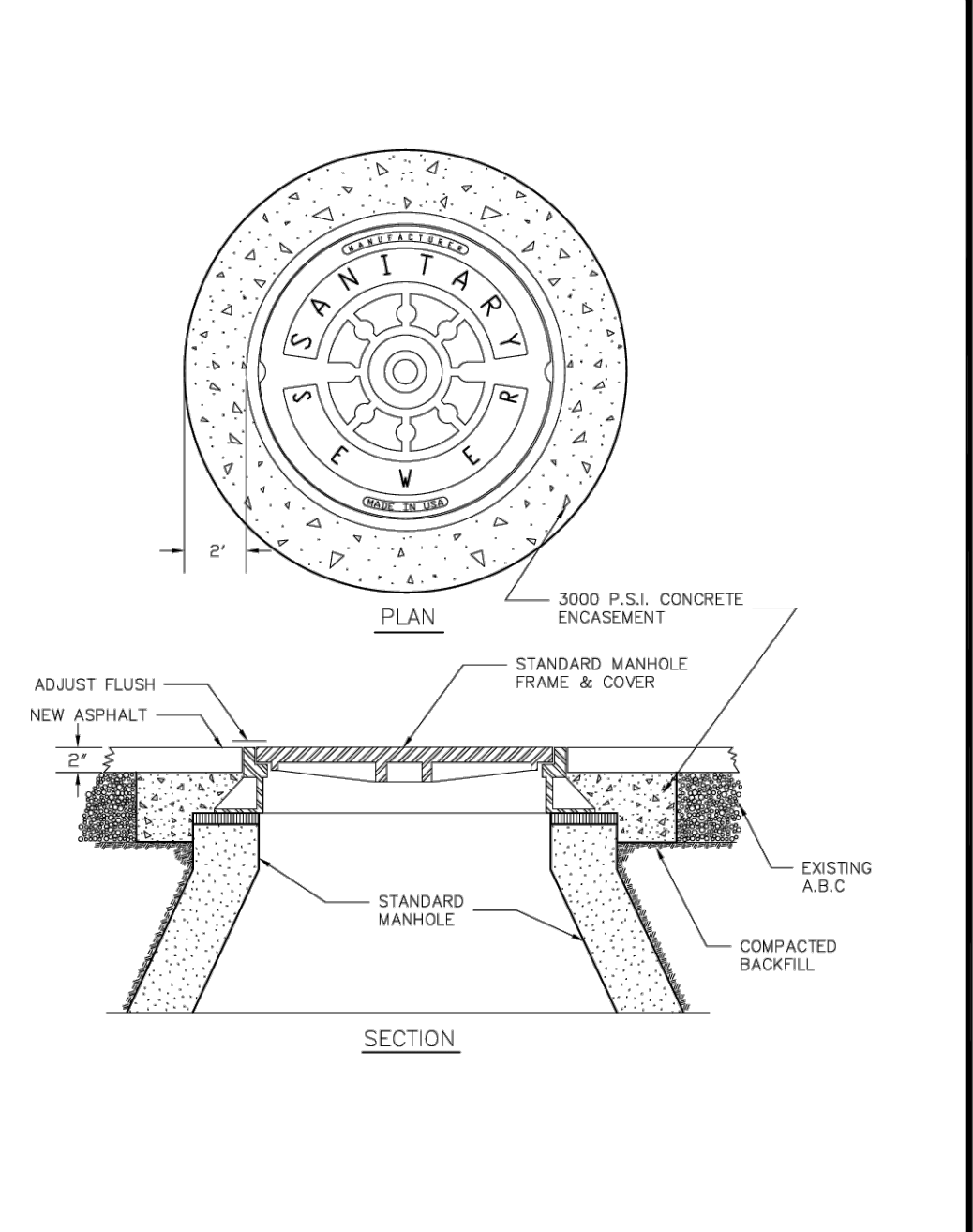
- NOTES:
1. CONCRETE: 28 DAY $f_c=4500$ psi
 2. REBAR: ASTM A-615 GRADE 60
 3. MESH: ASTM A-185 GRADE 65
 4. DESIGN: ACI 318-83 BUILDING CODE ASTM C-857 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES
 5. LOADS: H-20 TRUCK WHEEL WITH 30% IMPACT PER ASHTO
 6. FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM
 7. CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING, SANITARY TEE'S, AND 4" DUAL SWEEP CLEAN OUTS (FOR CLEANING TOWARD AND AWAY FROM TRAP ON BOTH THE INLET AND OUTLET SIDE).
 8. GRAY WATER ONLY, BLACK WATER SHALL BE CARRIED BY SEPARATE SEWER.
 9. ALL PIPE PENETRATIONS SHALL BE THROUGH A FLEXIBLE CONNECTOR AND SEALED WATERTIGHT WITH GROUT.



- NOTES:
1. THE DISTANCE FROM THE TOP OF M.H. RING AND COVER MAY VARY WIDELY. SEE GRADING PLAN, AND/OR MANHOLE SCHEDULE
 2. INVERT ELEV. SHOWN ON THE PLANS OR MANHOLE SCHEDULE ARE AT THE INLET AND OUTLET OF MANHOLE UNLESS OTHERWISE NOTED
 3. CORNER PIPE TO MANHOLE CONNECTIONS SHALL BE RUBBER SLEEVE WITH DUAL S.S. BANDS
 4. ALL MANHOLES ARE TO BE EXTENDED BASE
 5. ALL INTERIOR JOINTS AND LIFTING POINTS SHALL BE SEALED WITH GROUT
 6. MANHOLES SHALL NOT HAVE STEPS



- NOTES:
1. ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST
 2. FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS.
 3. COVER SHALL WEIGH A MIN. OF 120 LBS.
 4. MANHOLES WITHIN PAVED SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL
 5. CONCREAL SHALL BE USED BETWEEN RING AND CONE



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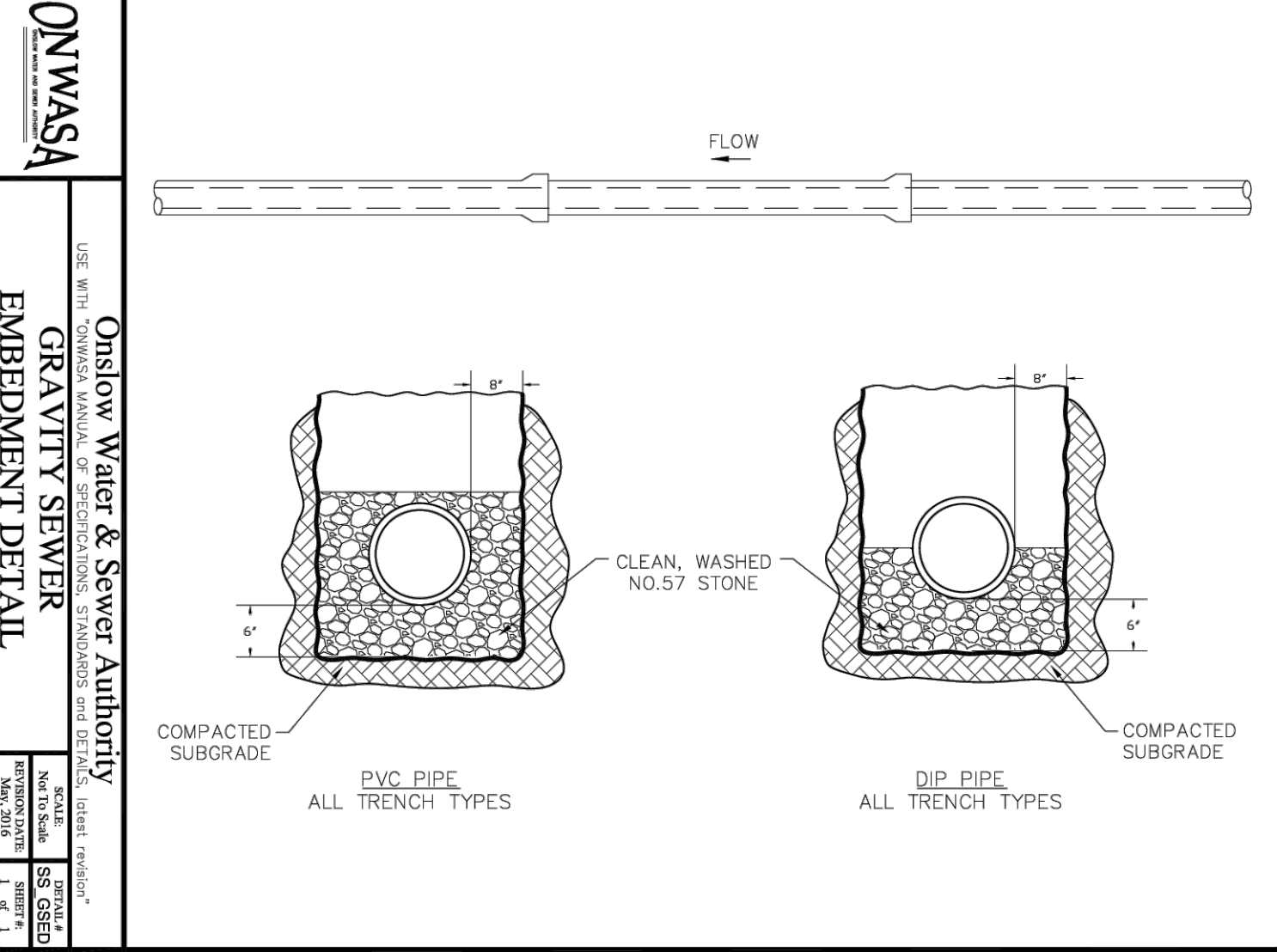
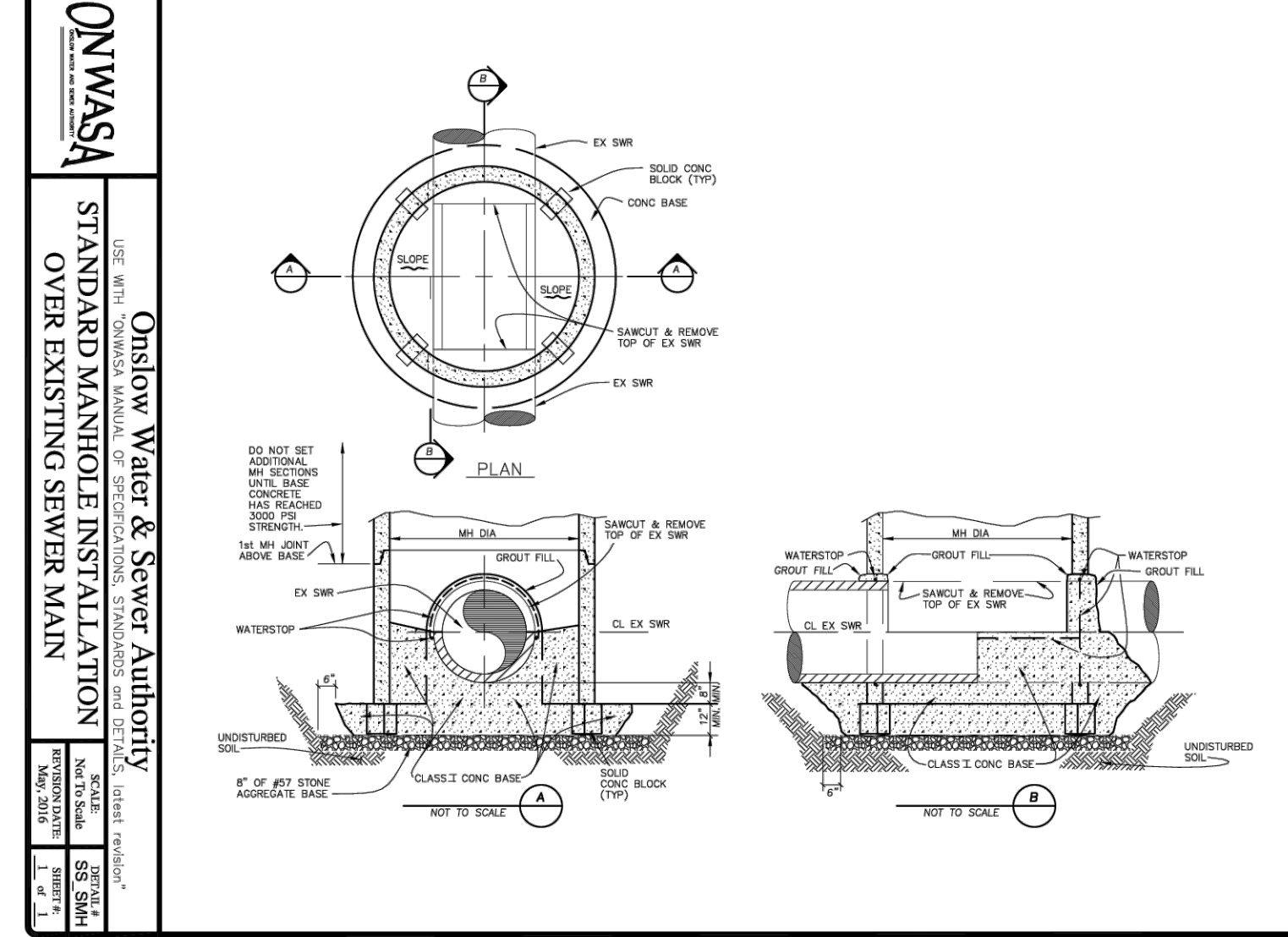
ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
OIL AND GREASE TRAP SIZING
SCALE: Not To Scale
DETAIL: SS_OG
REVISION DATE: May, 2016
1 of 3

ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
OIL AND GREASE TRAP DIMENSIONS TABLE
SCALE: Not To Scale
DETAIL: SS_OGS
REVISION DATE: May, 2016
3 of 3

ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
STANDARD PRECAST SANITARY SEWER MANHOLE (ECCENTRIC)
SCALE: Not To Scale
DETAIL: SS_MHE
REVISION DATE: May, 2016
1 of 1

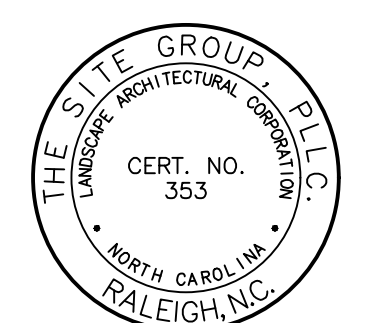
ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
STANDARD MANHOLE COVER & FRAME
SCALE: Not To Scale
DETAIL: SS_MHC
REVISION DATE: May, 2016
1 of 1

ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
STD. MANHOLE FRAME AND COVER DETAIL WITHIN PAVED SURFACES
SCALE: Not To Scale
DETAIL: SS_MHP
REVISION DATE: May, 2016
1 of 1



ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
STANDARD MANHOLE INSTALLATION OVER EXISTING SEWER MAIN
SCALE: Not To Scale
DETAIL: SS_MHO
REVISION DATE: May, 2016
1 of 1

ONWASA Onslow Water & Sewer Authority
USE WITH ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision.
GRAVITY SEWER EMBEDMENT DETAIL
SCALE: Not To Scale
DETAIL: SS_GSD
REVISION DATE: May, 2016
1 of 1



NC ENGINEERING LICENSE NO. P-0803

PROGRESS
12 NOV 2025

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CONSTRUCTION DRAWINGS FOR:
RICHLANDS MARRIOTT
135 KOONCE FORK ROAD
RICHLANDS, NORTH CAROLINA

Drawn By: **CJB**
Checked By: **SRN**

DATE:
PROGRESS

CONSTRUCTION DRAWINGS

SITE DETAILS

Job Code: **WCRH**

Dwg No.
SITE 703