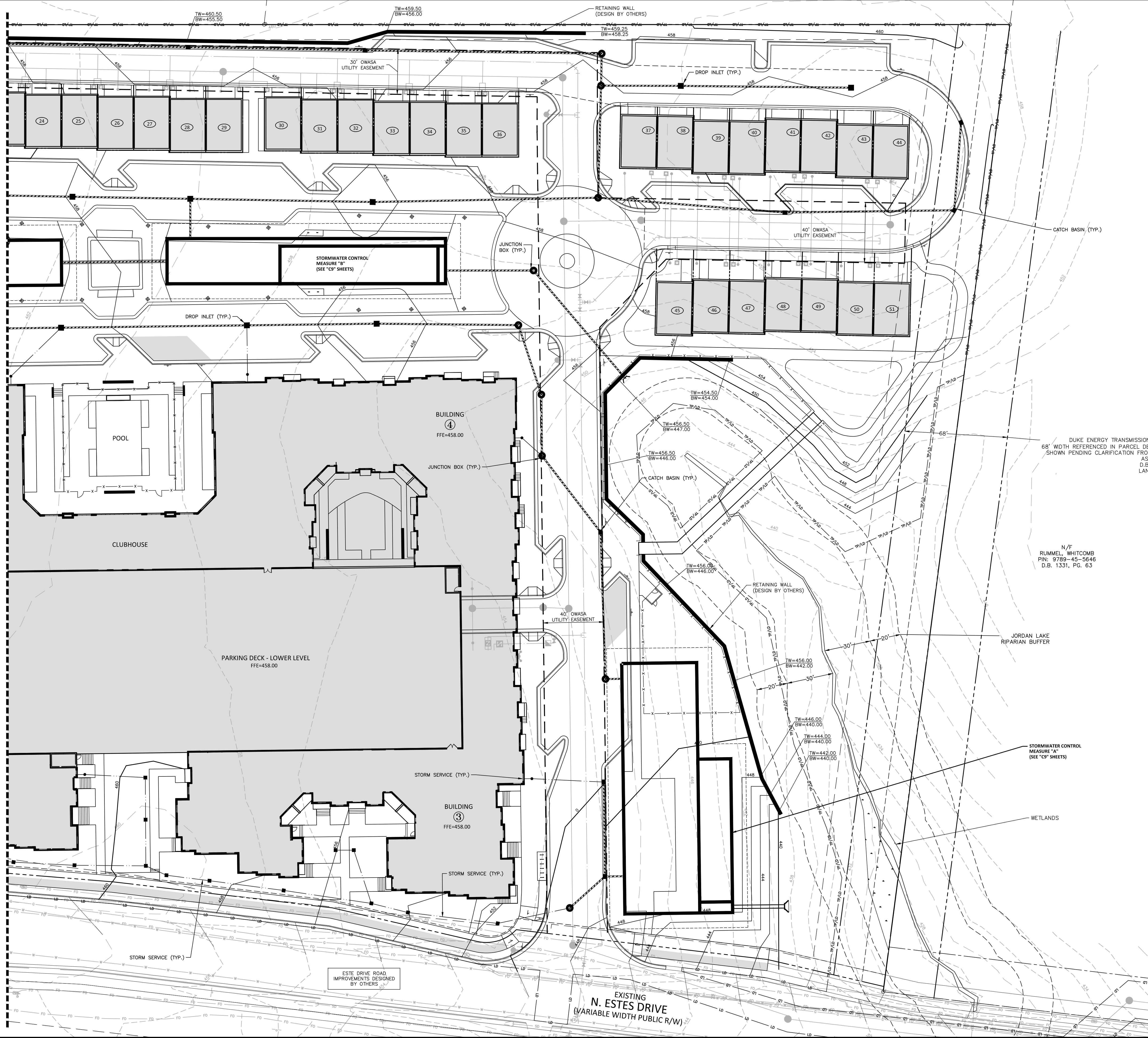


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SEE SHEET C3.01



GRADING LEGEND

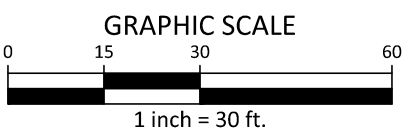
- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- STORM SERVICE ROOF-DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- TOP & BOTTOM CURB ELEVATIONS
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- ROOF DRAIN, 8" ADS
- NON-PERFORATED TUBING OR EQUAL 1.0% MIN. SLOPE 3" MIN. COVER PVC SCHEDULE 40 IN TRAFFIC AREAS
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- WOODED AREA
- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

GENERAL NOTES:

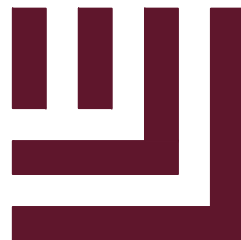
- THE LANDSCAPE AREAS FRONTING ESTES ROAD AND MLK BLVD WILL BE GRADED TOWARDS THE SITE TO CAPTURE STORMWATER RUNOFF WHERE POSSIBLE AND AS NECESSARY TO MEET STORMWATER TREATMENT REQUIREMENTS.

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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Durham, NC 27713

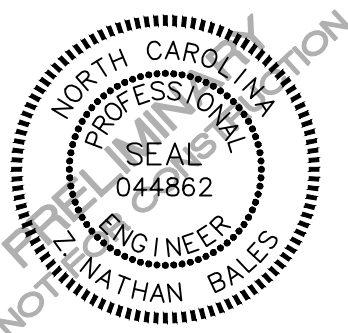
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

TRINISC RESIDENTIAL GROUP
110 CORCORAN STREET, 5TH FLOOR
DURHAM, NORTH CAROLINA, 27701
PHONE: 919. 884. 7395

AURA
CONDITIONAL ZONING PERMIT
NORTH ESTES DRIVE
CHAPEL HILL, NORTH CAROLINA, 27516



REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11.13.2020	REVISED PER 1ST CZP COMMENTS
2	12.18.2020	REVISED PER 2ND CZP COMMENTS
3	01.29.2021	REVISED PER 3RD CZP COMMENTS

PLAN INFORMATION

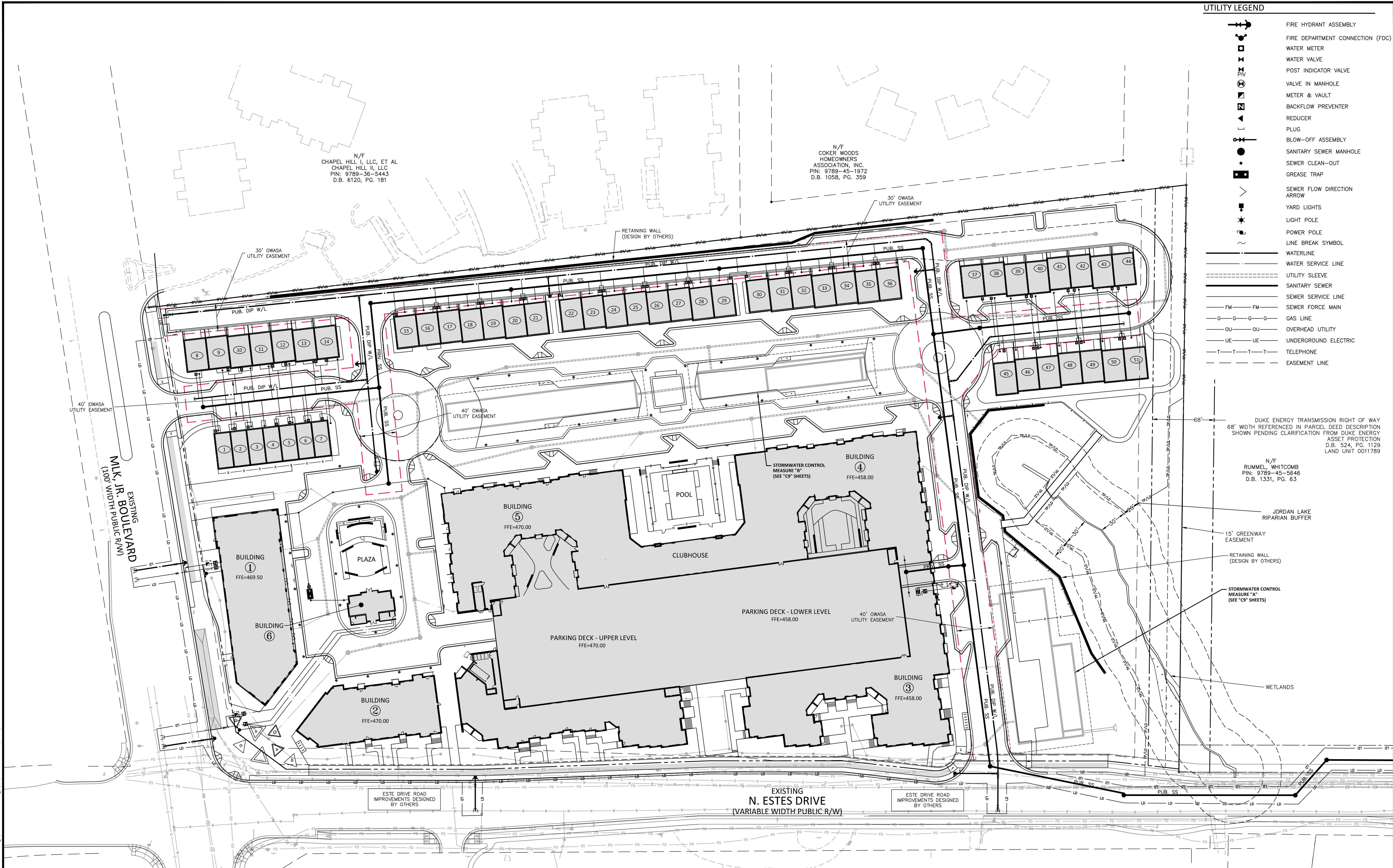
PROJECT NO. TRG-20000
FILENAME TRG20000-G1
CHECKED BY ZNB
DRAWN BY CJJ
SCALE 1"=30'
DATE 09.24.2020

SHEET

GRADING PLAN - AREA B

C3.02

M:\Projects\Trinisk\TRG-20000\04-Production\Engineering\Construction Drawings\TRG20000-04U1.dwg, 1/29/2021 8:19:48 PM, Jones, Connor



UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER CLEAN-OUT
- GREASE TRAP
- SEWER FLOW DIRECTION ARROW
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- LINE BREAK SYMBOL
- WATERLINE
- WATER SERVICE LINE
- UTILITY SLEEVE
- SANITARY SEWER
- SEWER SERVICE LINE
- SEWER FORCE MAIN
- GAS LINE
- OVERHEAD UTILITY
- UNDERGROUND ELECTRIC
- TELEPHONE
- EASEMENT LINE

DUKE ENERGY TRANSMISSION RIGHT OF WAY
68' WIDTH REFERENCED IN PARCEL DEED DESCRIPTION
SHOWN PENDING CLARIFICATION FROM DUKE ENERGY
ASSET PROTECTION
D.B. 524, PG. 1129
LAND UNIT 0011789

N/F
RUMMEL, WHITCOMB
PIN: 9789-45-5646
D.B. 1331, PG. 63

JORDAN LAKE
RIPARIAN BUFFER

15' GREENWAY
EASEMENT

RETAINING WALL
(DESIGN BY OTHERS)

STORMWATER CONTROL
MEASURE "A"
(SEE "CS" SHEETS)

WETLANDS

ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

ESTATE DRIVE ROAD
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ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

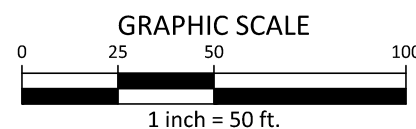
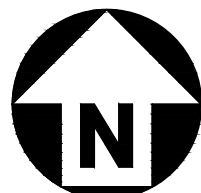
ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

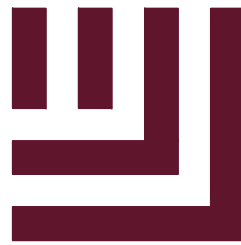
ESTATE DRIVE ROAD
IMPROVEMENTS DESIGNED
BY OTHERS

SEE SHEET C0.01 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

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PHONE: 919. 884. 7395

AURA

CONDITIONAL ZONING PERMIT

NORTH ESTES DRIVE

CHAPEL HILL, NORTH CAROLINA, 27516



REVISIONS

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PLAN INFORMATION

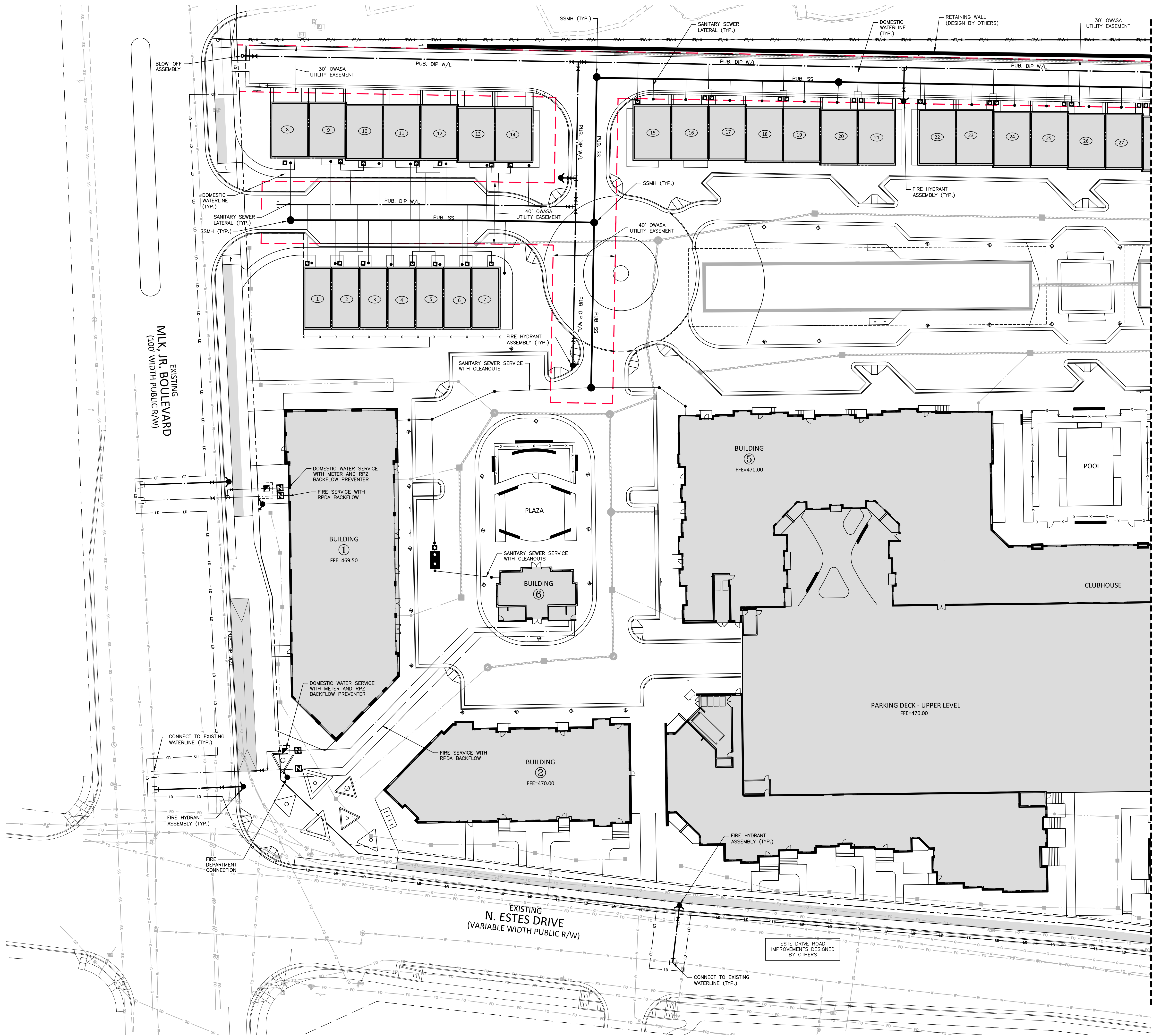
PROJECT NO.	TRG-20000
FILENAME	TRG20000-04U1
CHECKED BY	ZNB
DRAWN BY	CJJ
SCALE	1"=50'
DATE	09.24.2020

SHEET

OVERALL UTILITY PLAN

C4.00

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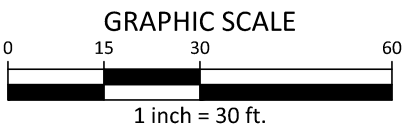
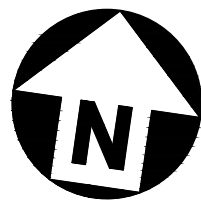
UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
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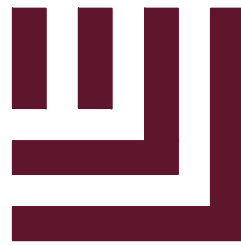
MATCH LINE - SEE SHEET C4.02

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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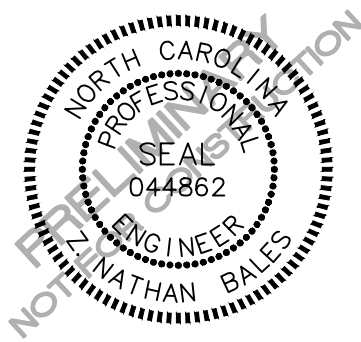
phone 919. 361. 5000
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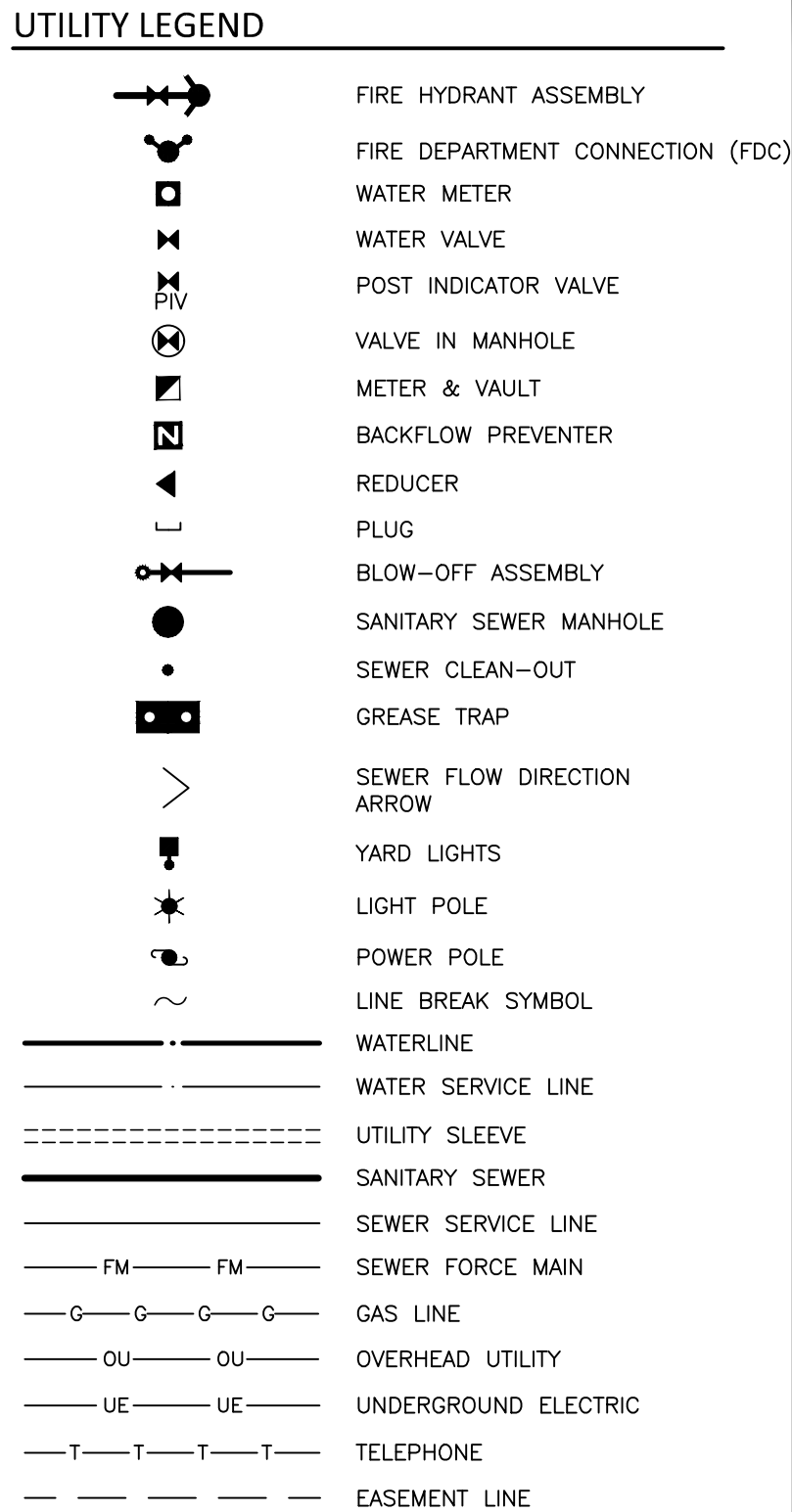
PLAN INFORMATION

PROJECT NO. TRG-20000
FILENAME TRG20000-U1
CHECKED BY ZNB
DRAWN BY CJJ
SCALE 1"=30'
DATE 09.24.2020

SHEET

UTILITY PLAN - AREA A

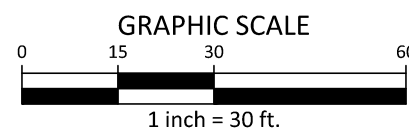
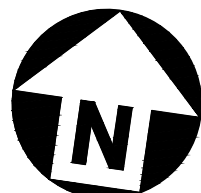
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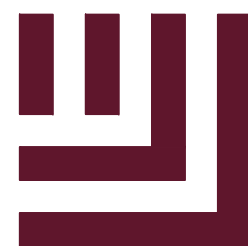
SEE SHEET C4.01

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2	12. 18. 2020	REVISED PER 2ND CZP COMMENT
3	01. 29. 2021	REVISED PER 3RD CZP COMMENT

PLAN INFORMATION

PROJECT NO.	TRG-20000
FILENAME	TRG20000-U1
CHECKED BY	ZNB
DRAWN BY	CJJ
SCALE	1"=30'
DATE	09. 24. 2020

SHEET

UTILITY PLAN - AREA B

C4.02

CLIENT
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3	01. 29. 2021	REVISED PER 3RD CZP COMMENTS

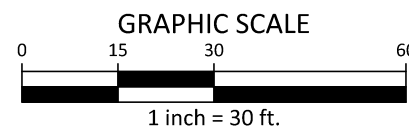
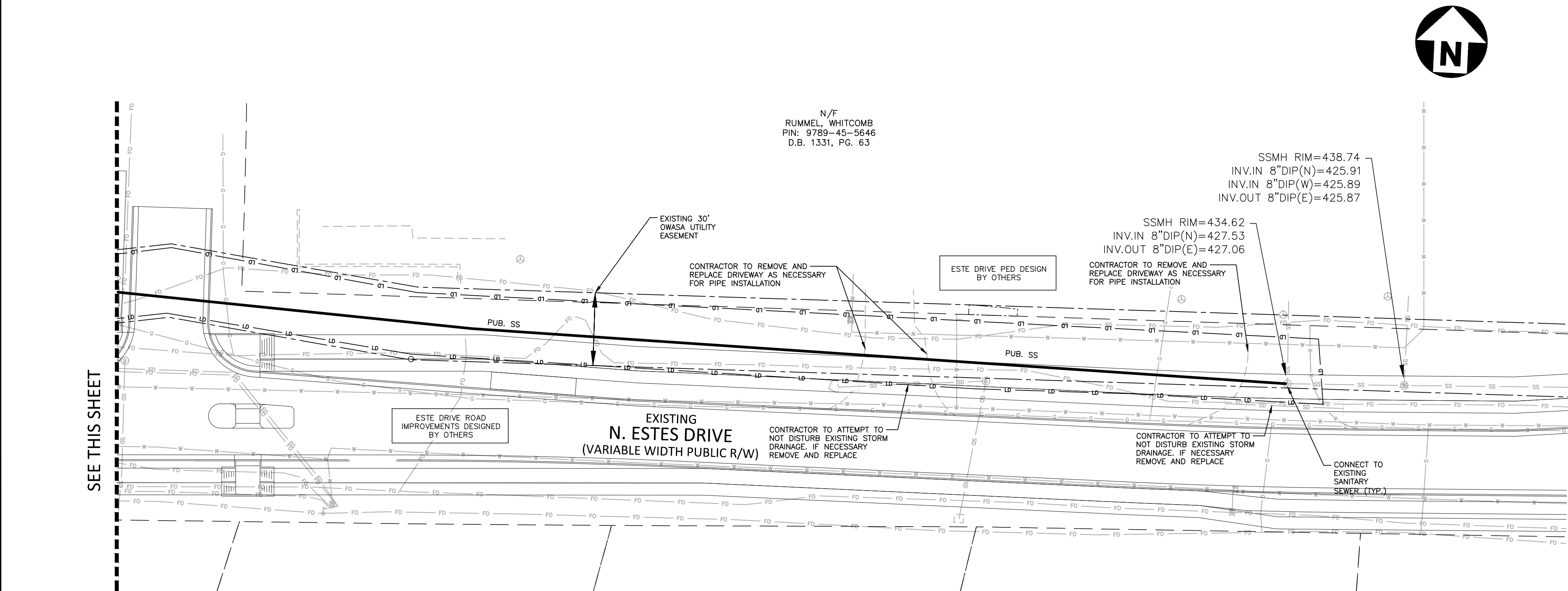
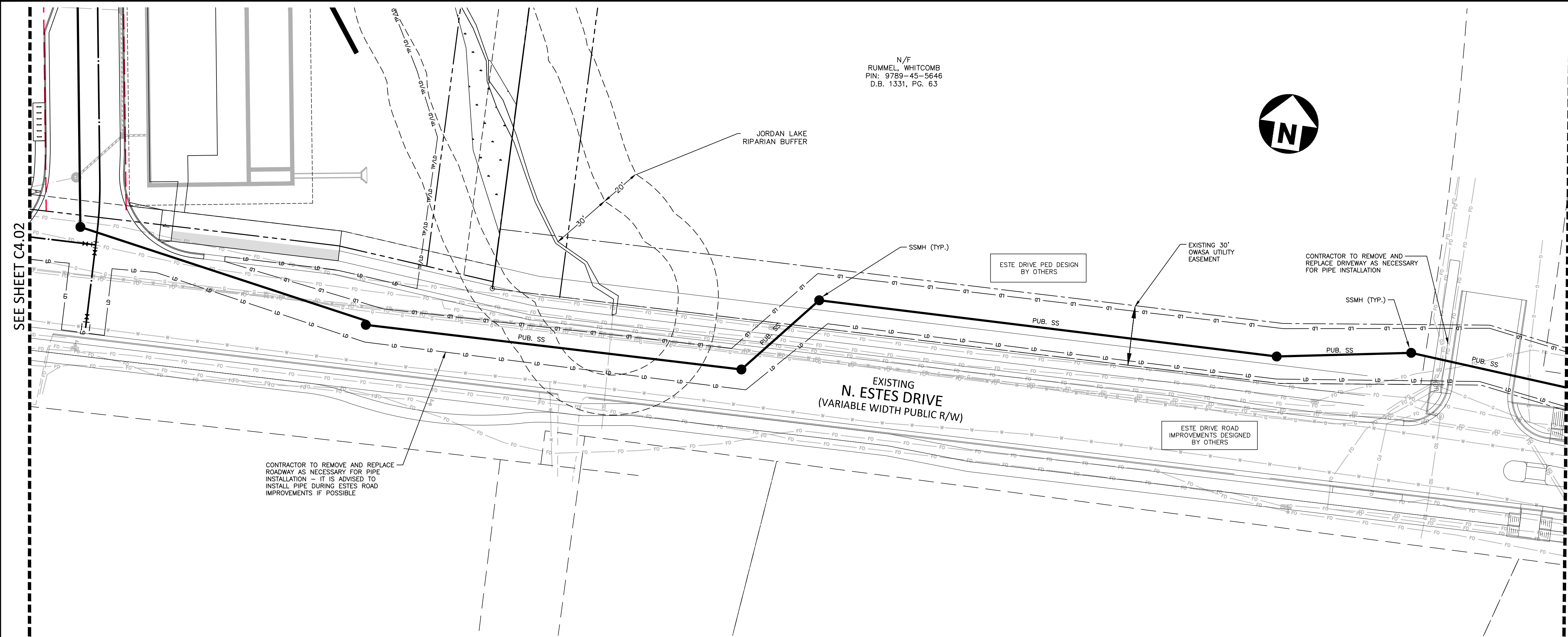
PLAN INFORMATION

PROJECT NO. TRG-20000
FILENAME TRG20000-U1
CHECKED BY ZNB
DRAWN BY CJJ
SCALE 1"=30'
DATE 09. 24. 2020

SHEET

UTILITY PLAN - AREA C

C4.03

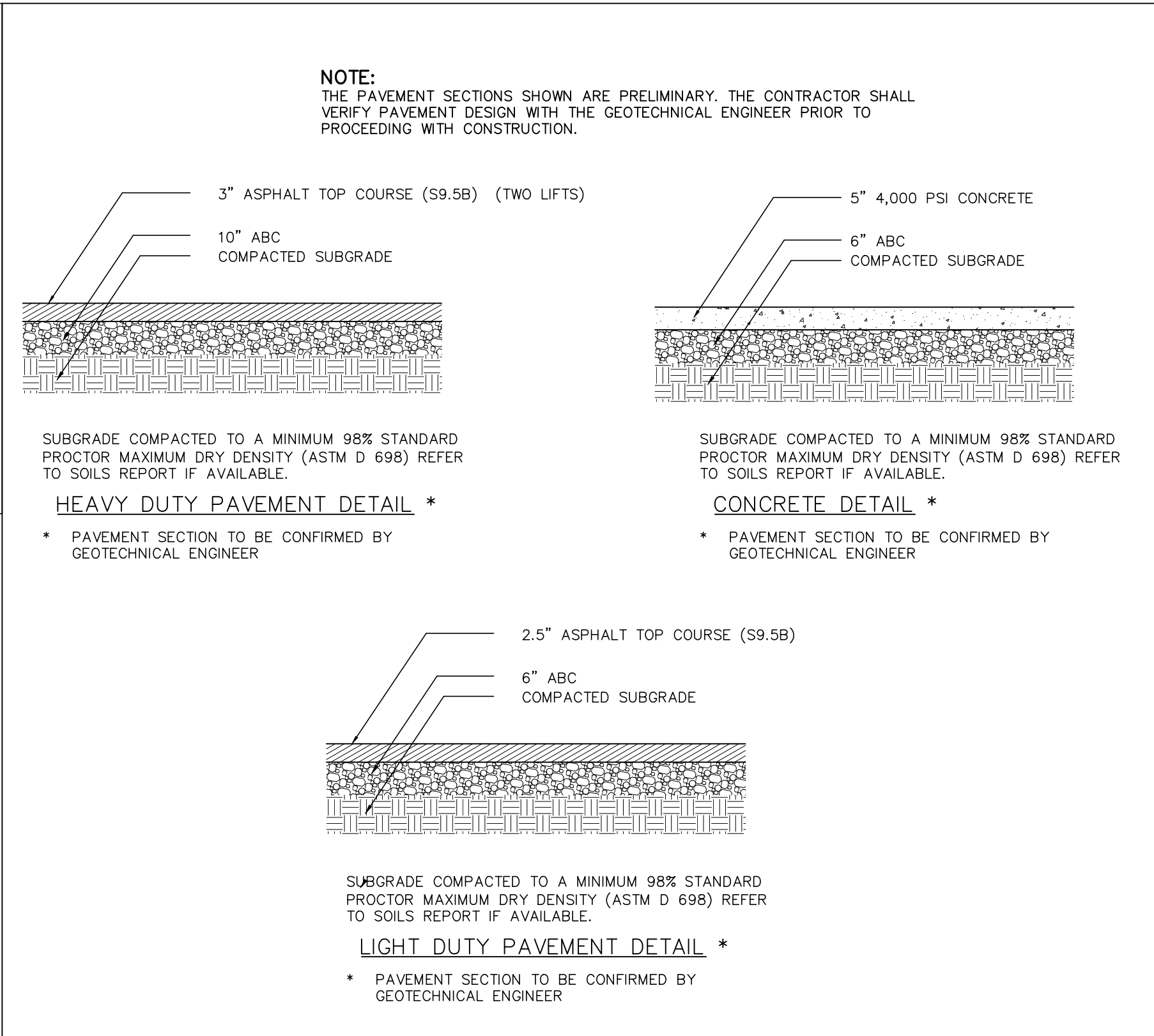
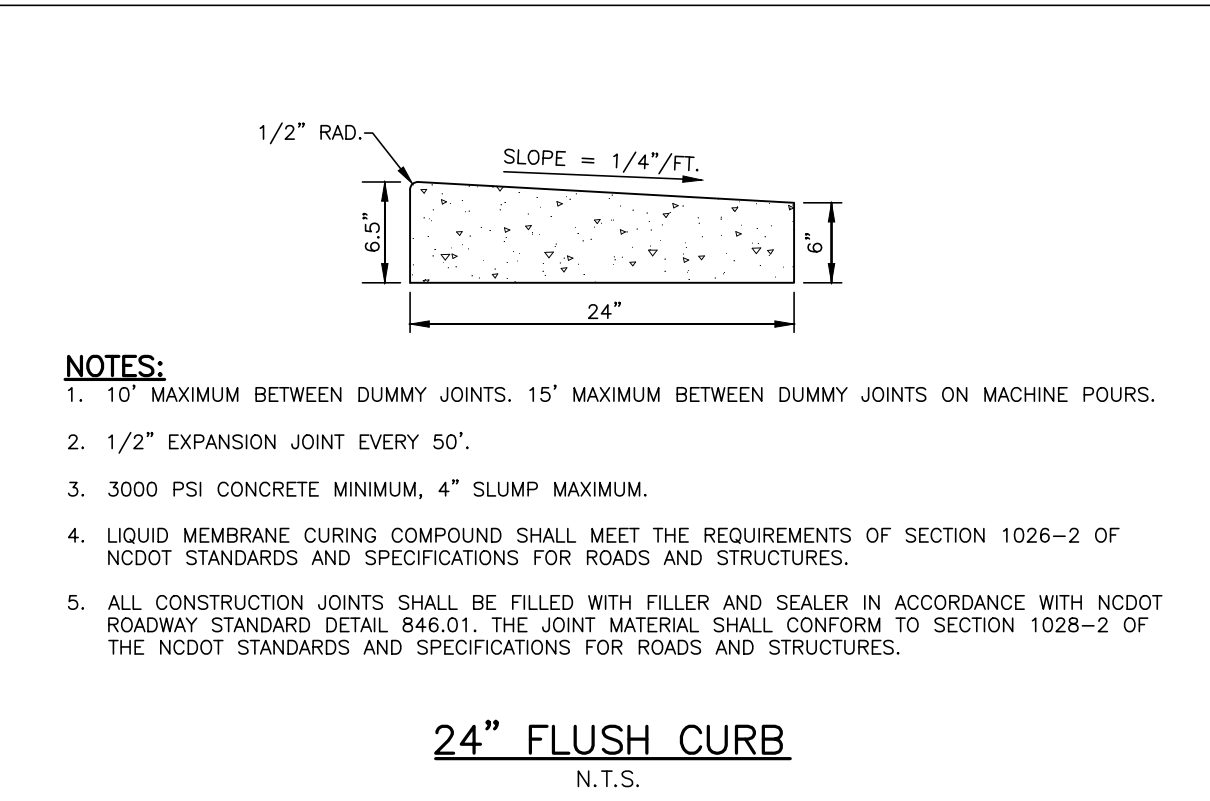
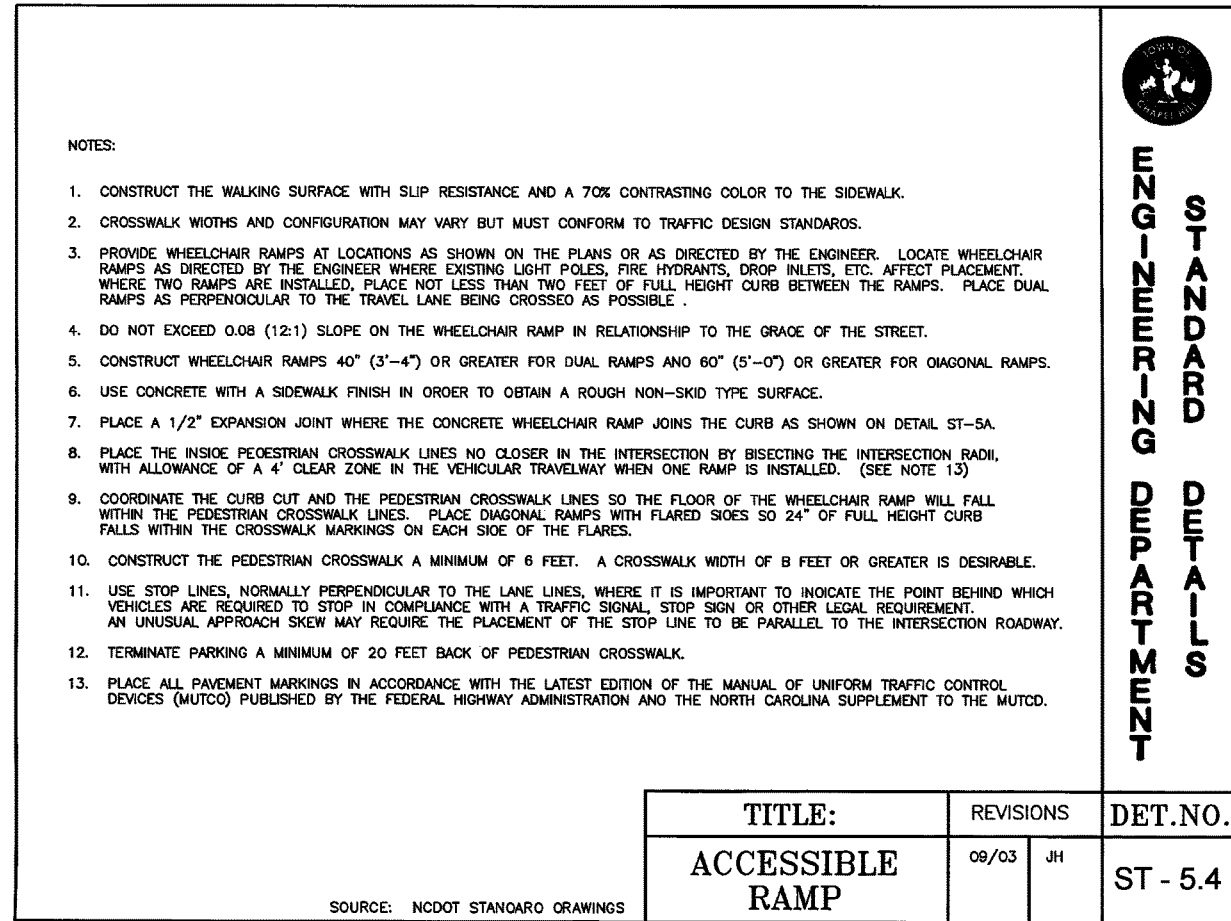
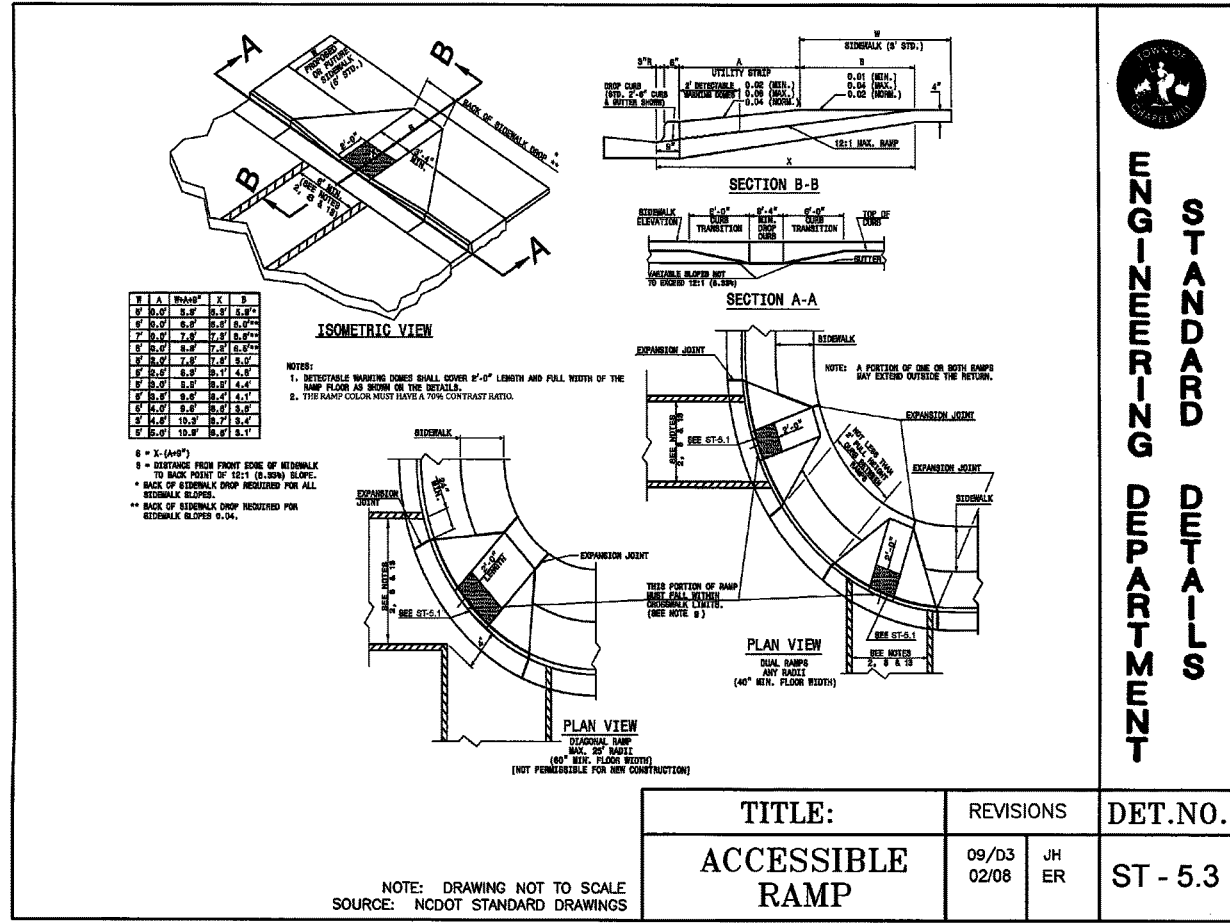
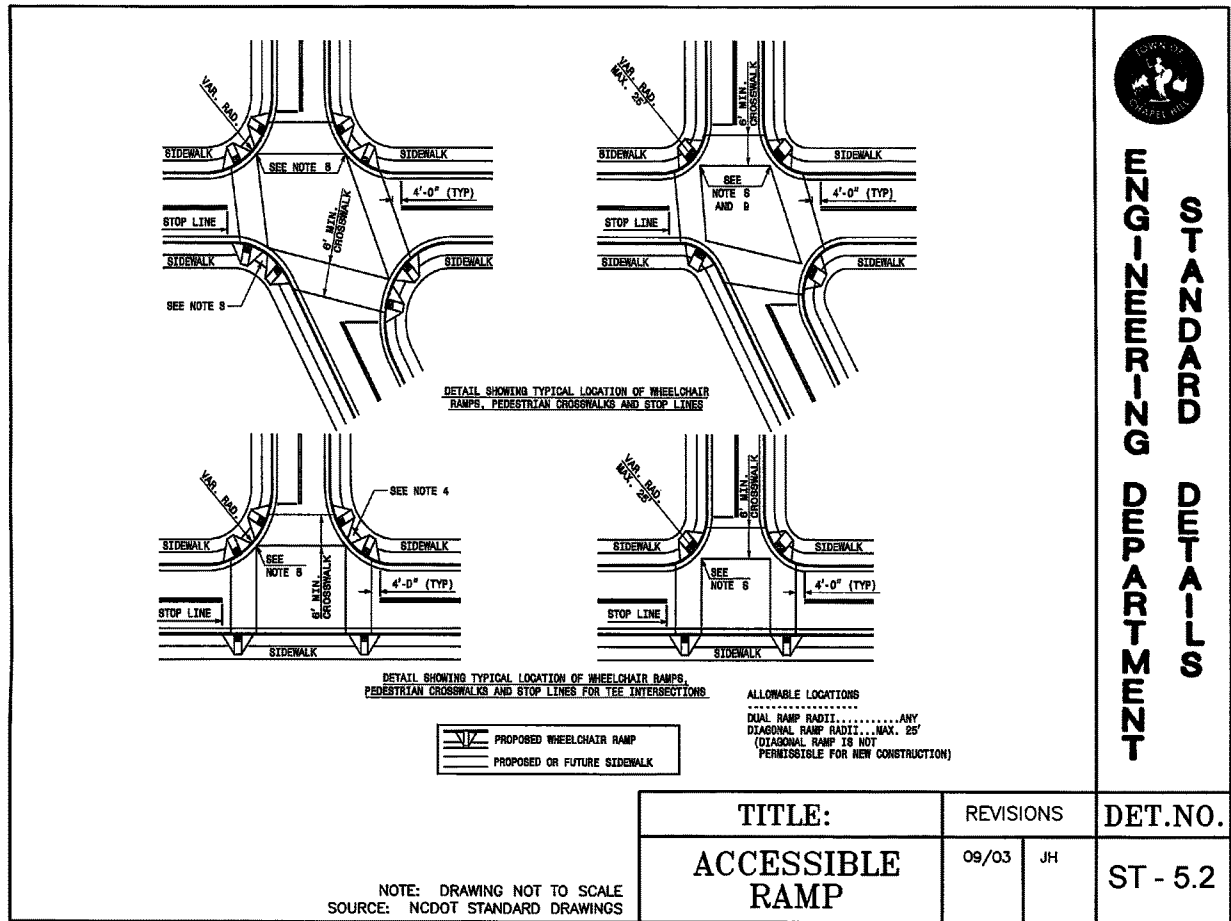
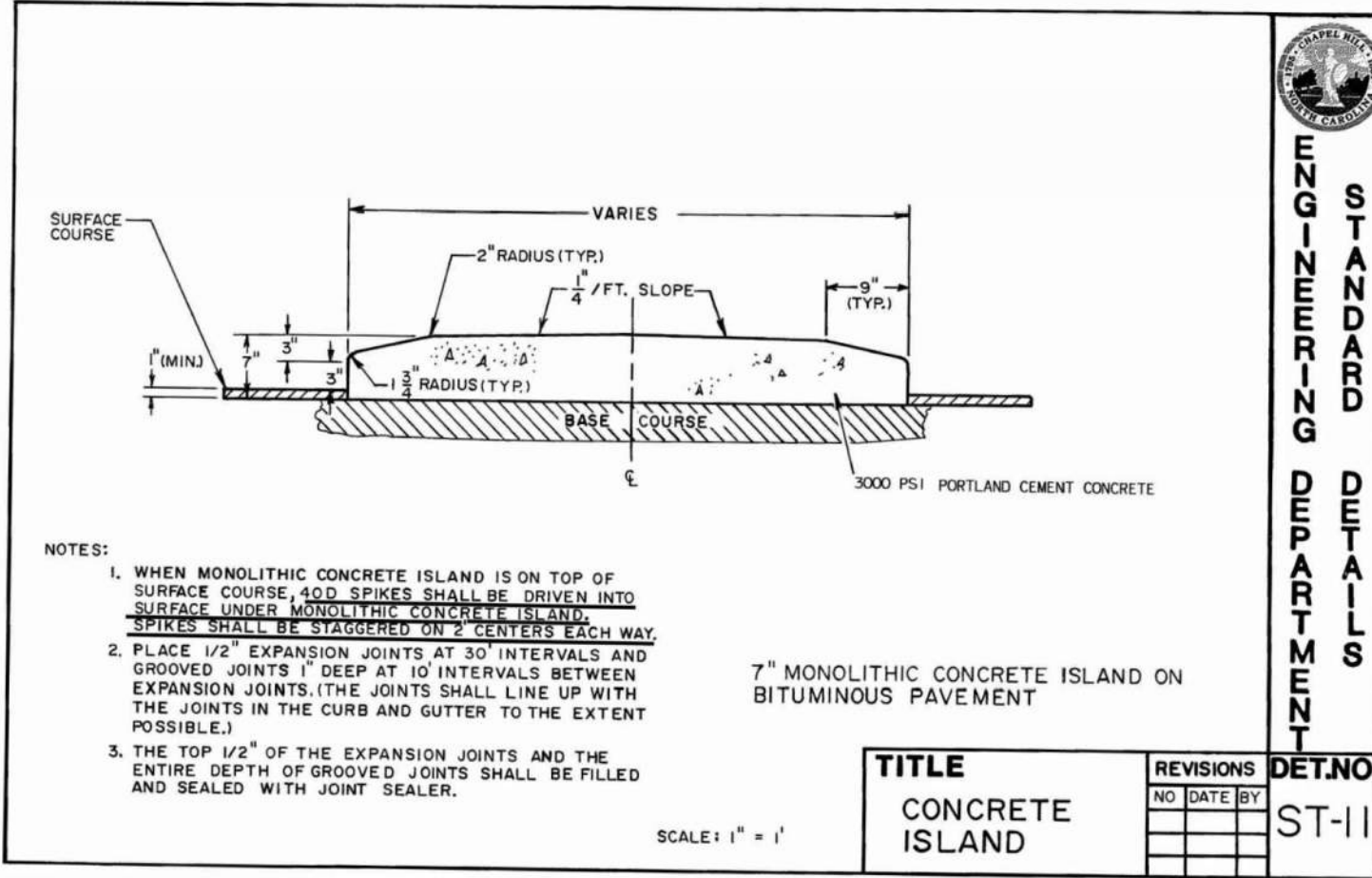
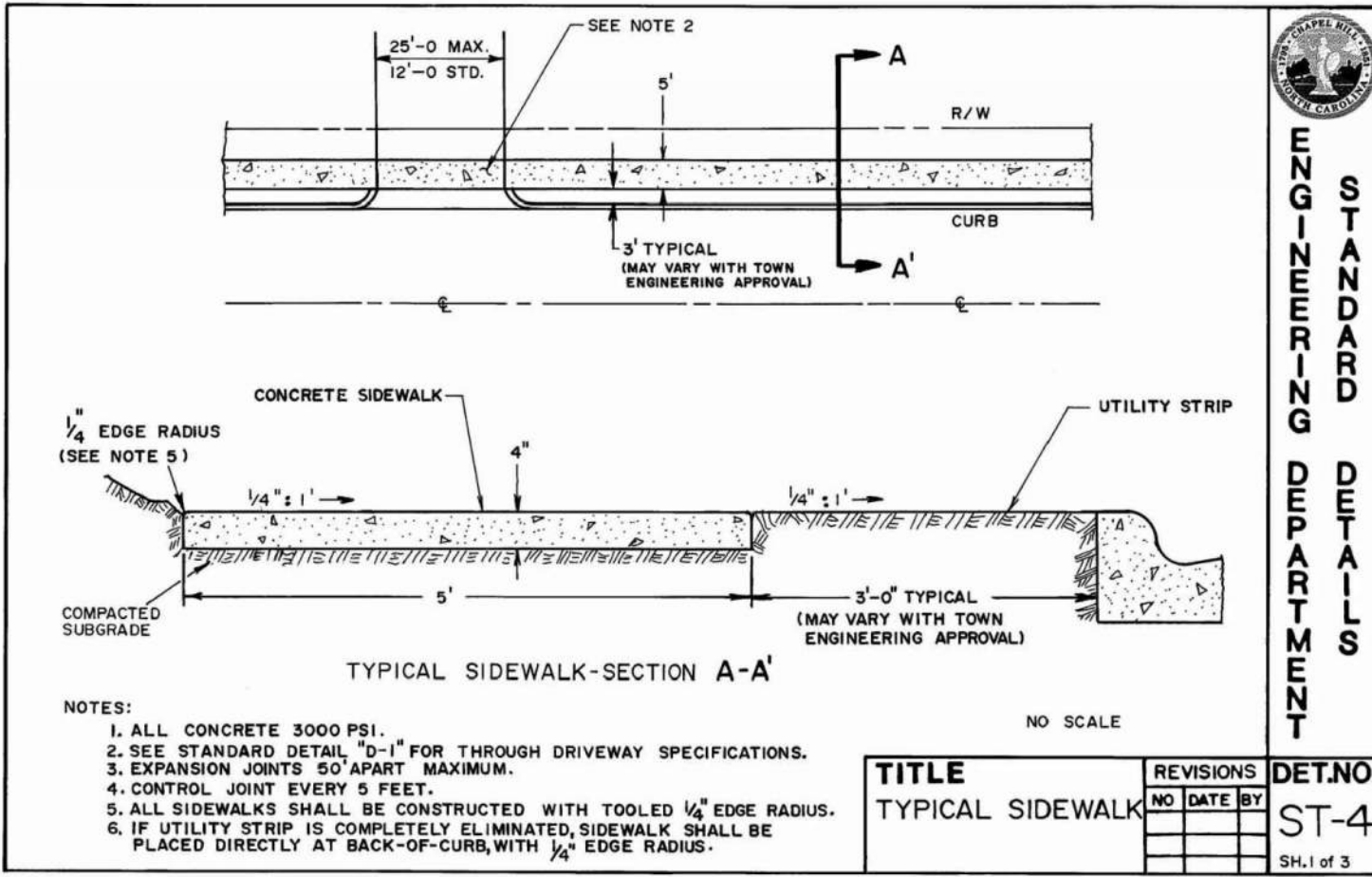
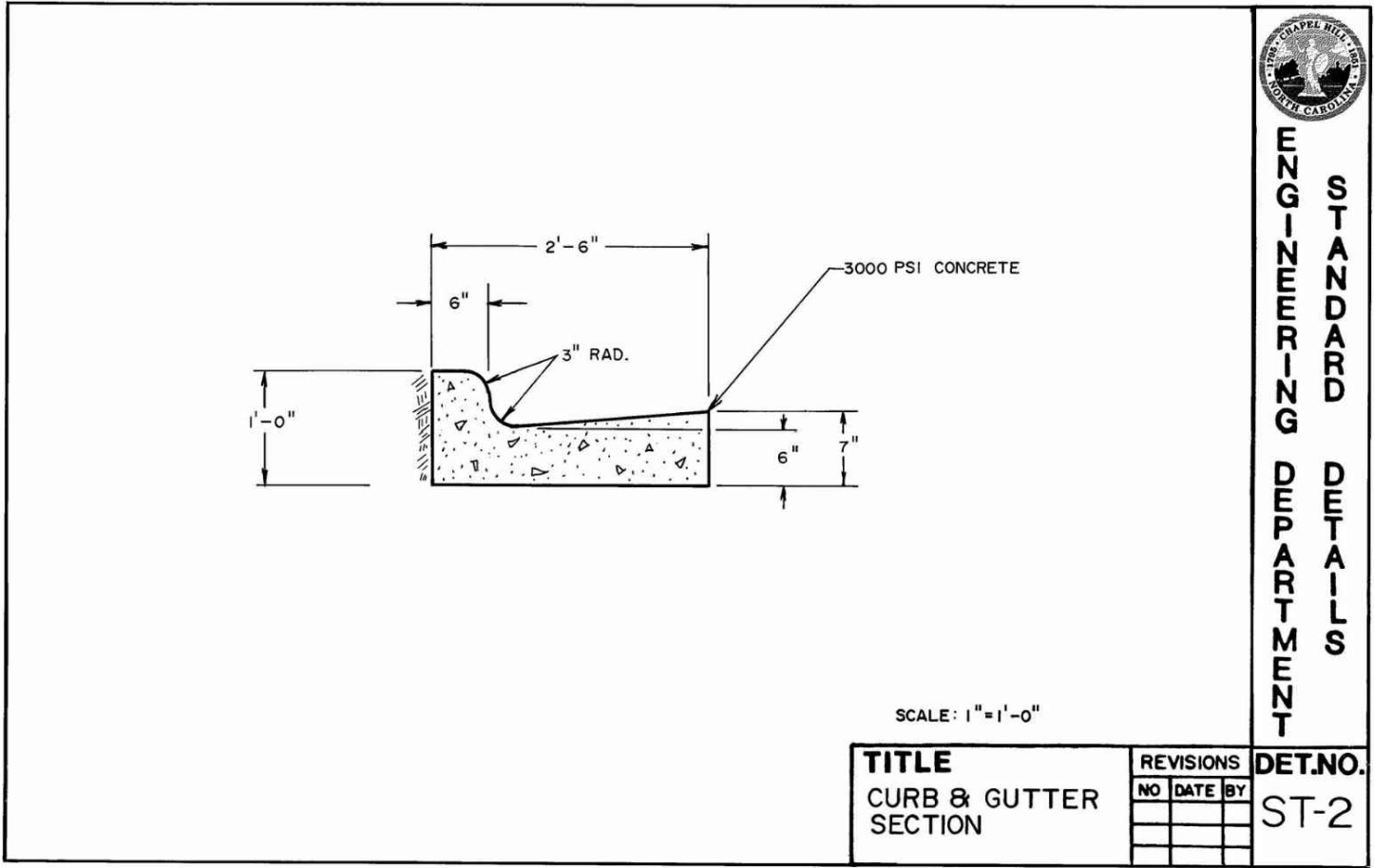


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REVISIONS		
NO.	DATE	REVISION DESCRIPTION
1	11.13.2020	REVISED PER 1ST CZP COMMENTS
2	12.18.2020	REVISED PER 2ND CZP COMMENTS
3	01.29.2021	REVISED PER 3RD CZP COMMENTS

PLAN INFORMATION	
PROJECT NO.	TRG-20000
FILENAME	TRG20000-D1
CHECKED BY	ZNB
DRAWN BY	CJJ
SCALE	N/A
DATE	09.24.2020



NOTE:
SEE STORMWATER IMPACT ANALYSIS (SIA)
FOR MORE INFORMATION REGARDING
VAULT DESIGN.

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3	01.29.2021	REVISED PER 3RD CZP COMMENTS

PLAN INFORMATION

PROJECT NO.	TRG-20000
FILENAME	TRG20000-SWA
CHECKED BY	DCW
DRAWN BY	LK
SCALE	1"=20'
DATE	01.29.2021

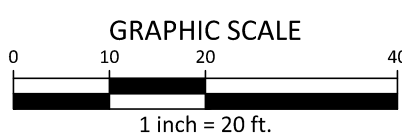
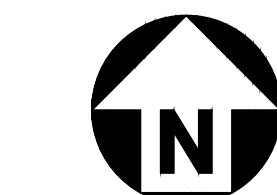
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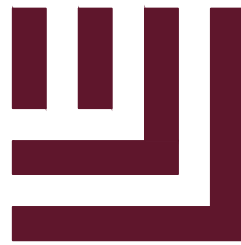
**STORMWATER CONTROL
MEASURE 'A' PLAN VIEW**

C9.00A

UNDERGROUND SAND FILTER & DETENTION SYSTEM 'A' PLAN VIEW

1" = 20'





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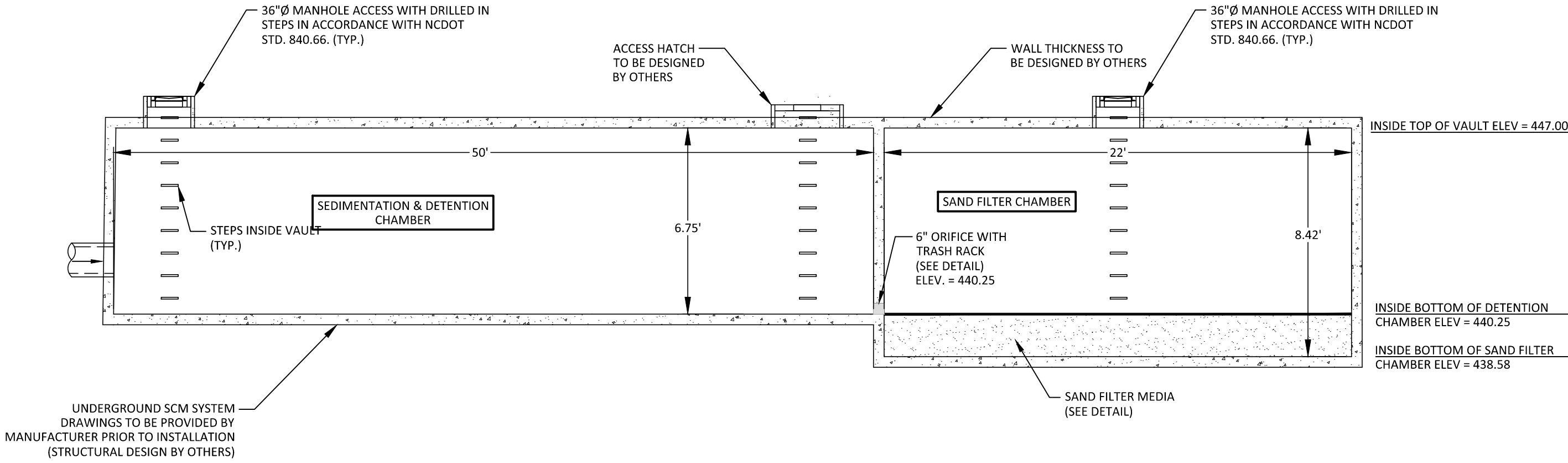
PLAN INFORMATION

PROJECT NO.	TRG-20000
FILENAME	TRG20000-SWA
CHECKED BY	DCW
DRAWN BY	LK
SCALE	N.T.S.
DATE	12.21.2020

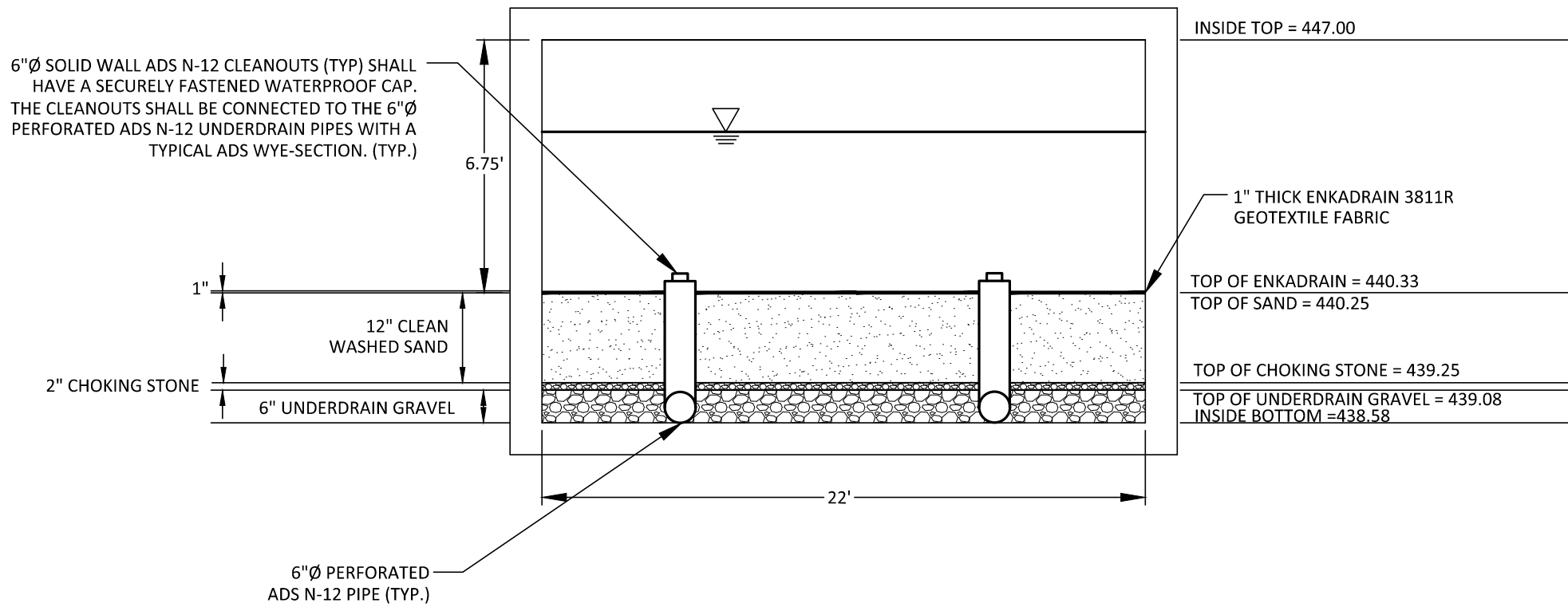
SHEET

STORMWATER CONTROL
MEASURE 'A' DETAILS

C9.01A



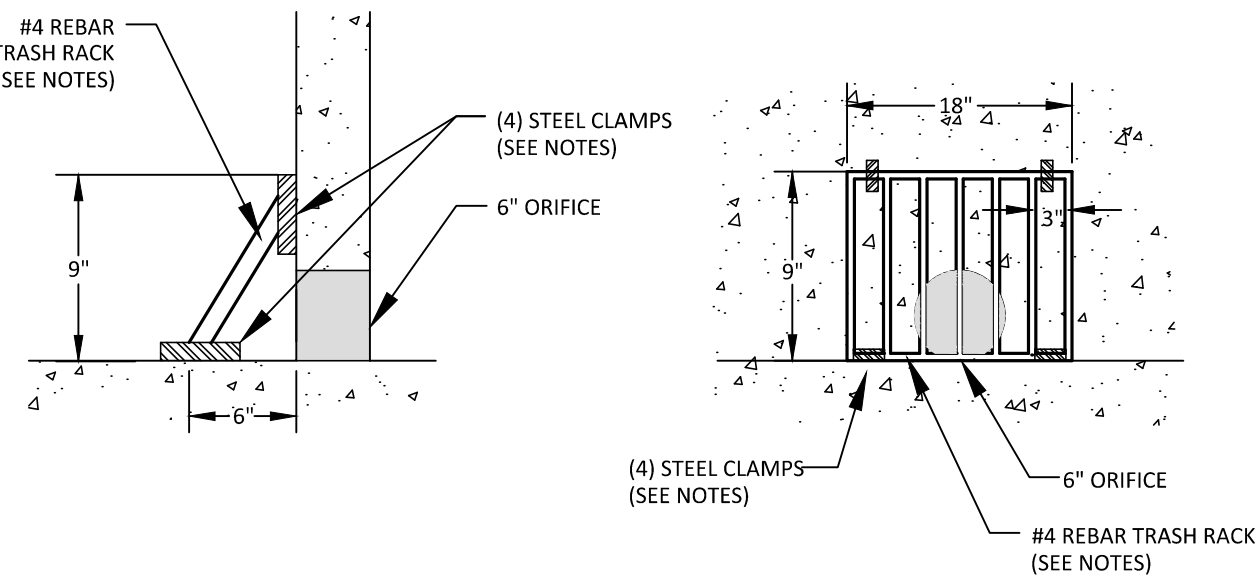
SAND FILTER AND DETENTION VAULT A' - A' PROFILE VIEW
N.T.S.



SAND CHAMBER FILTER MEDIA DETAIL
N.T.S.

NOTES:

1. ATTACH TRASH RACK WITH (4) HOT DIPPED GALVANIZED STEEL CLAMPS. EACH CLAMP ATTACHED TO WEIR BOX BY (2) 4"x1/4" CONCRETE ANCHOR BOLTS. EACH CLAMP SHALL BE COATED WITH AN EPOXY COATING.
2. ALL REBAR TO BE GALVANIZED #4 REBAR WITH AN EPOXY COATING.
3. BAR SPACING TO BE ON-CENTER MEASUREMENT.



6" ORIFICE TRASH RACK DETAIL
N.T.S.

NOTE: THE ONSITE GEOTECHNICAL ENGINEER SHALL CERTIFY ALL COMPONENTS OF THE SAND FILTER.

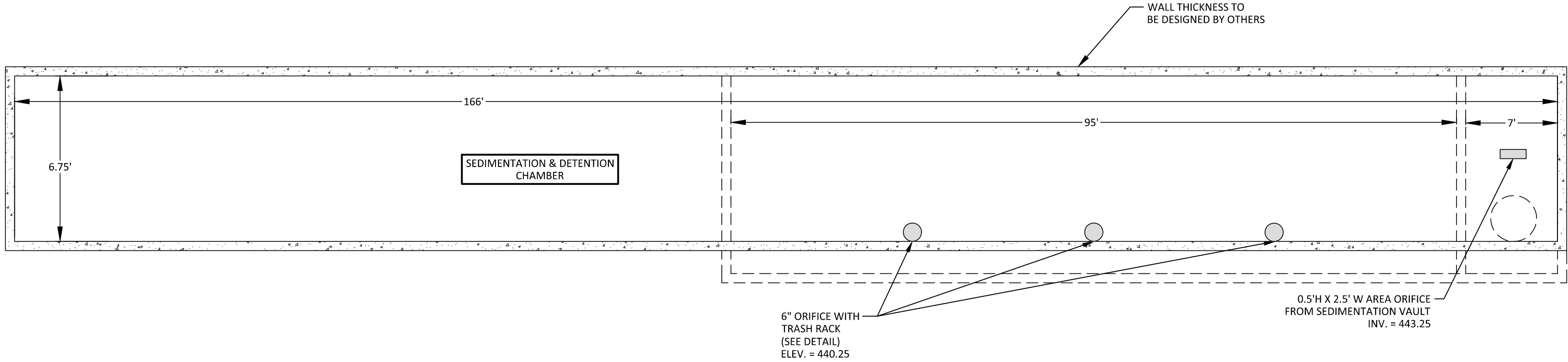
MATERIAL	SPECIFICATIONS / TEST METHOD	SIZE	NOTES
SAND	CLEAN ASBESTO M-6 OR ASTM C-33 MEDIUM AGGREGATE SAND	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE #30 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR OILUMTIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.
UNDERDRAIN GRAVEL (6" LAYER UNDER CHOKING STONE)	ASTM C-33	#57 STONE	
CHOKING STONE (2" LAYER BETWEEN SAND AND GRAVEL)	ASTM C-33	#8 STONE	
GEOTEXTILE FABRIC ABOVE SAND LAYER	ENKADRAIN 3811R		ENKADRAIN 3811R OR ENGINEER APPROVED EQUIVALENT TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS
UNDERDRAIN PIPING	AASHTO M-252	6" ADS N-12 (DOUBLE WALL HDPE PIPE)	3/8" PERFORATIONS @ 6" ON CENTER, 4 HOLES PER ROW. MINIMUM OF 4" OF GRAVEL OVER PIPES, 1" TOTAL LAYER OF GRAVEL

SAND FILTER MATERIAL SPECIFICATIONS
N.T.S.

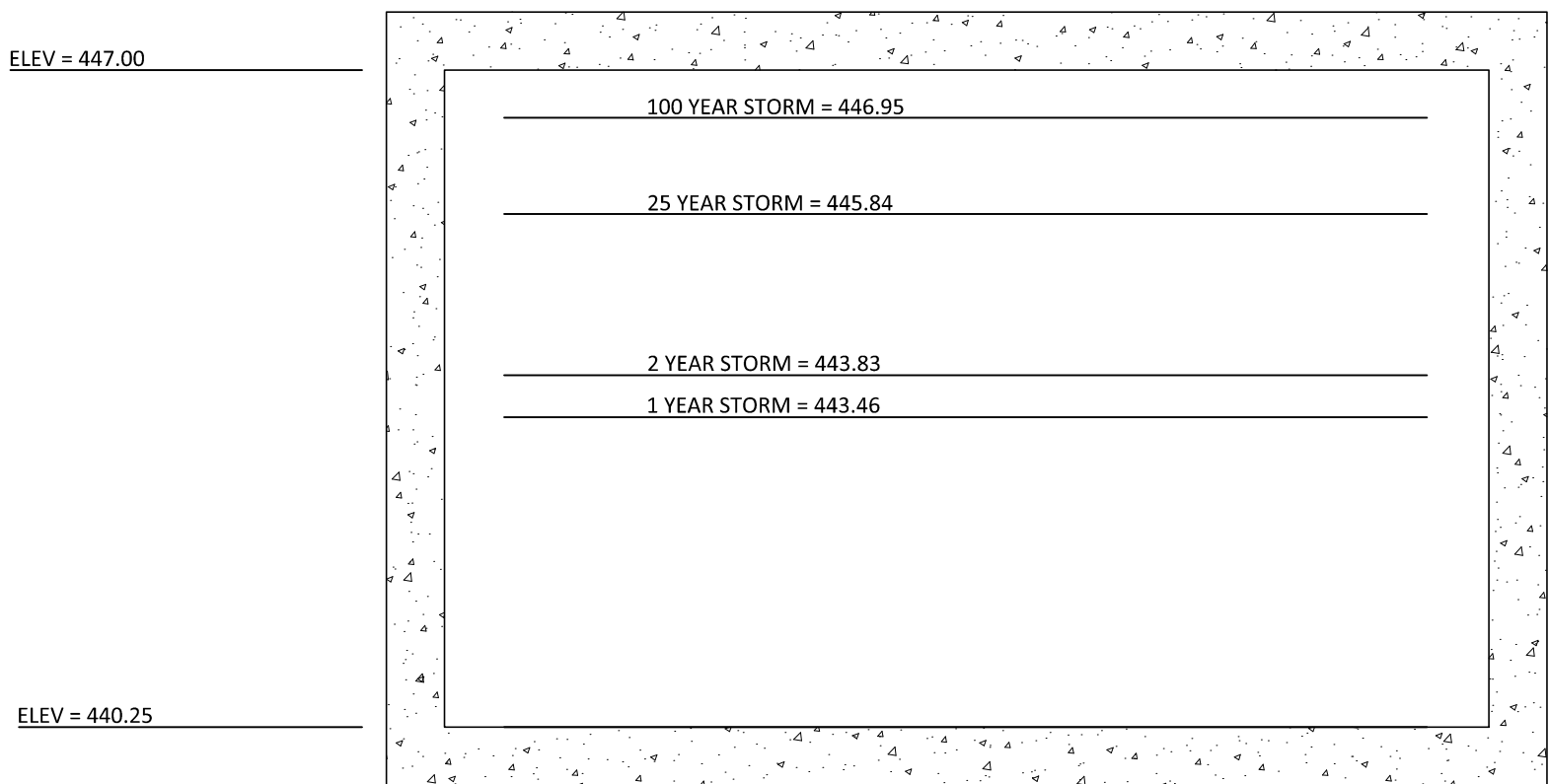
SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



DETENTION VAULT B' - B' PROFILE VIEW
N.T.S.

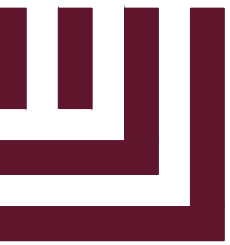


DETENTION VAULT CROSS SECTION
N.T.S.

NOTE:
SEE STORMWATER IMPACT ANALYSIS (SIA)
FOR MORE INFORMATION REGARDING
VAULT DESIGN.



I:\Projects\Trinisk\TRG-20000\04-Production\Water Resources\CDP\Current Drawings\TRG20000 - SCM B.dwg, 1/29/2021 4:41:05 PM, kabrich, Lauren



McADAMS

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AURA
CONDITIONAL ZONING PERMIT
NORTH ESTES DRIVE
CHAPEL HILL, NORTH CAROLINA, 27516

REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11.13.2020	REVISED PER 1ST CZP COMMENTS
2	12.18.2020	REVISED PER 2ND CZP COMMENTS
3	01.29.2021	REVISED PER 3RD CZP COMMENTS

PLAN INFORMATION

PROJECT NO. TRG-20000
FILENAME TRG20000-SWB
CHECKED BY DCW
DRAWN BY LK
SCALE 1"=20'
DATE 01.29.2021

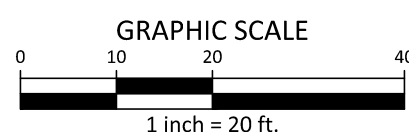
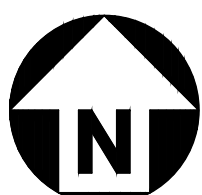
SHEET

STORMWATER CONTROL
MEASURE 'B' PLAN VIEW

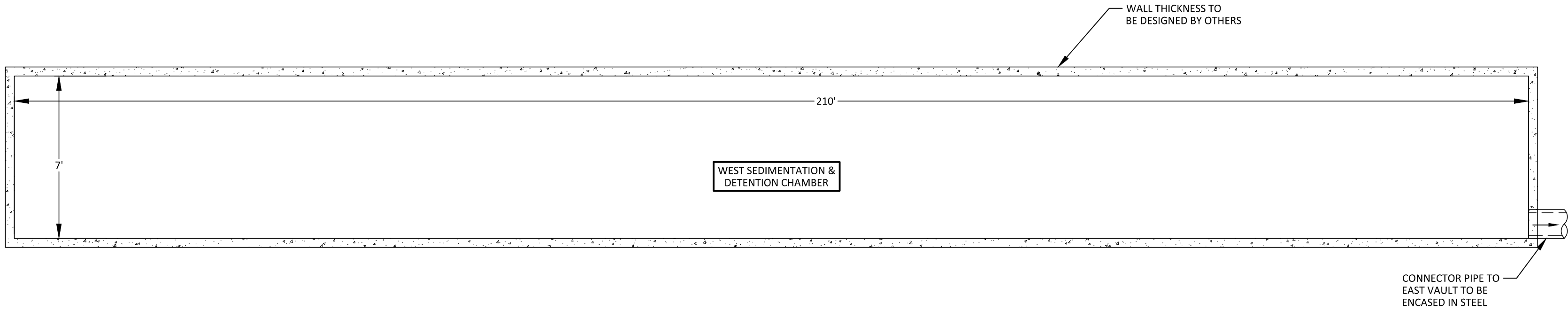
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SEE SHEET C0.01 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

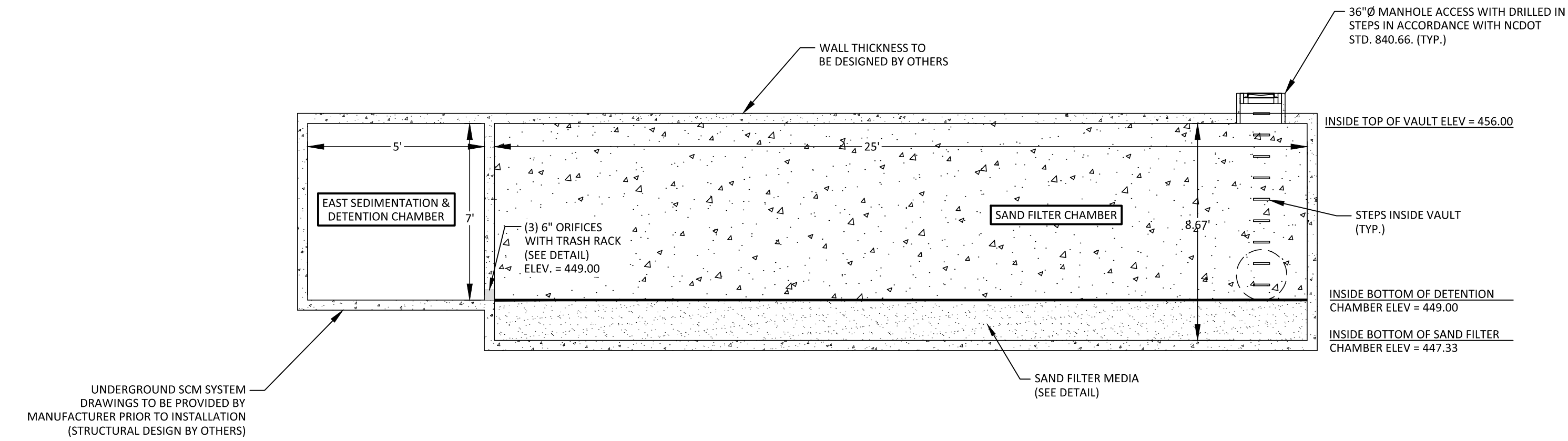
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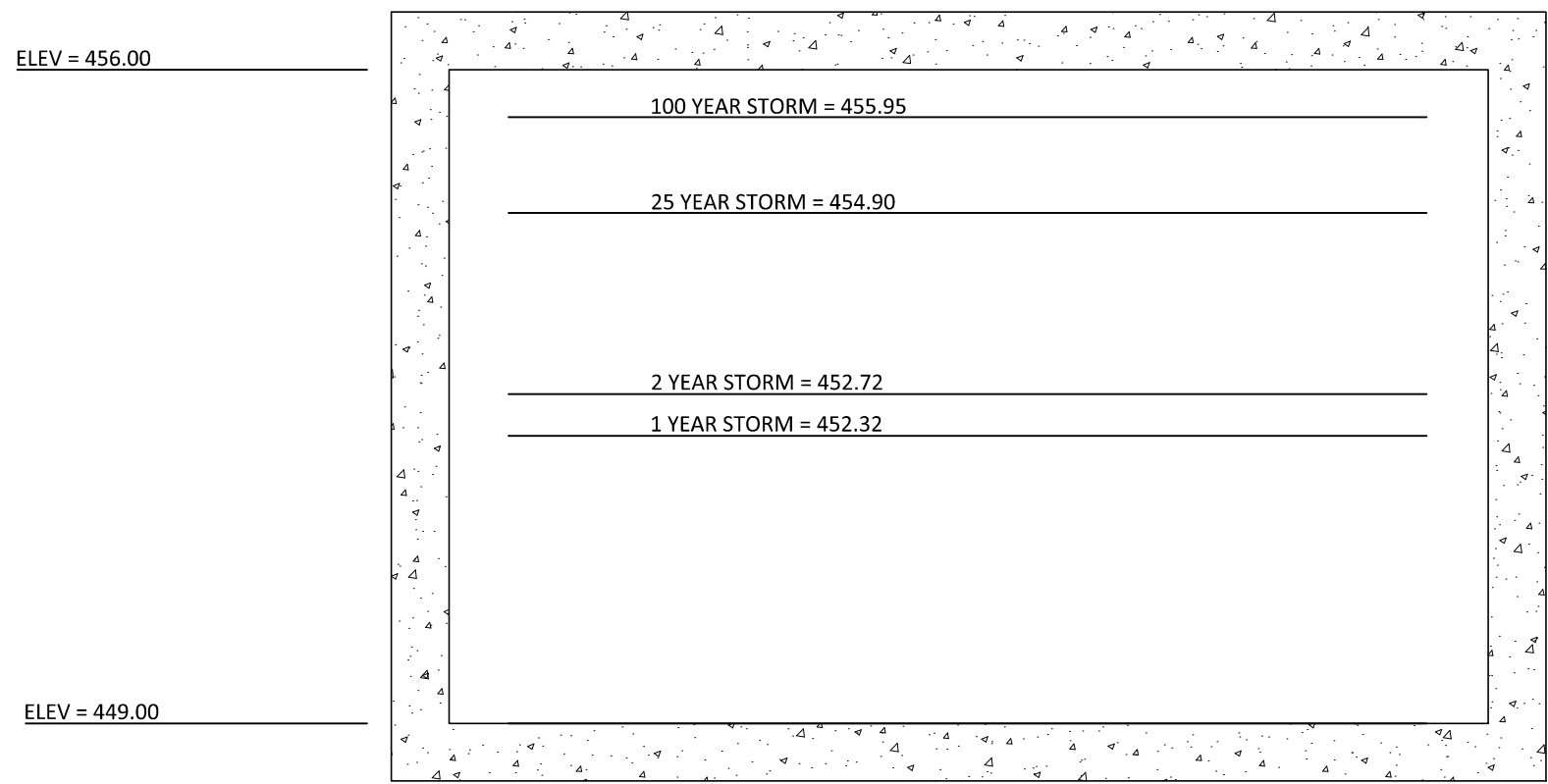
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



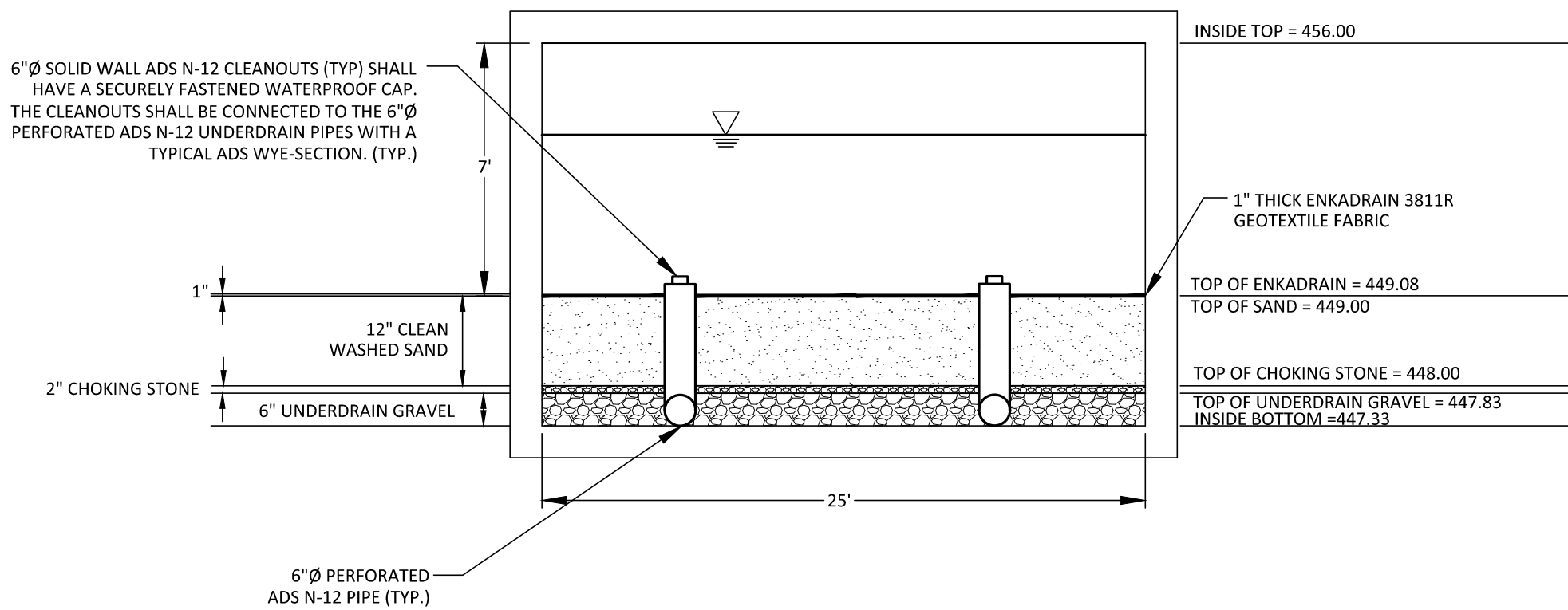
DETENTION VAULT A' - A' PROFILE VIEW
N.T.S.



SAND FILTER AND DETENTION VAULT B' - B' CROSS SECTION VIEW
N.T.S.



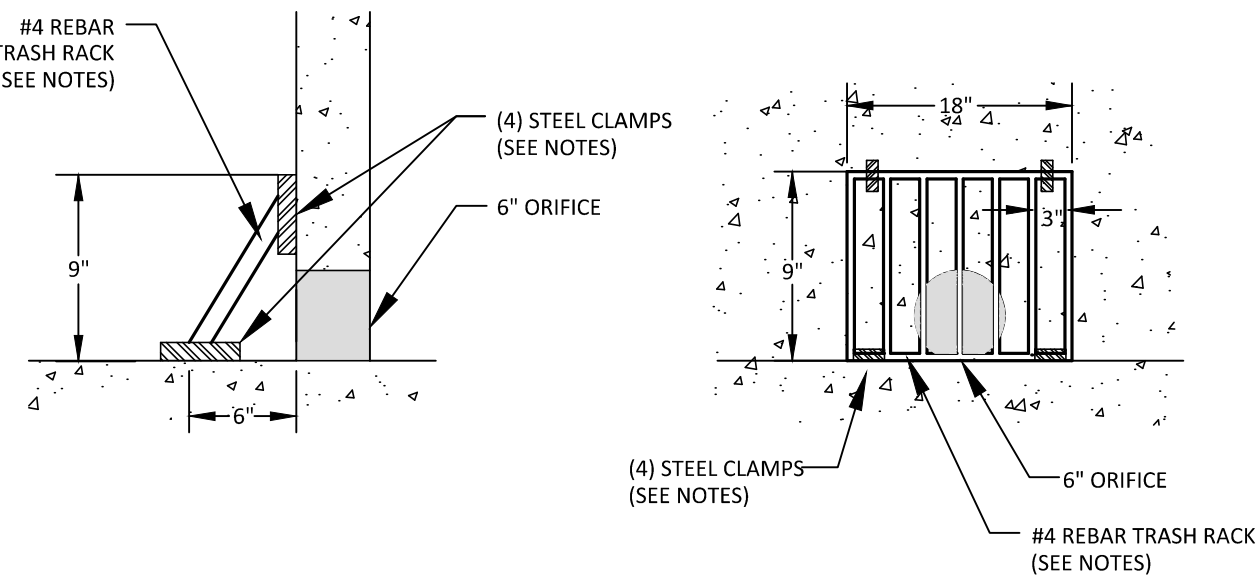
DETENTION VAULT CROSS SECTION
N.T.S.



SAND CHAMBER FILTER MEDIA DETAIL
N.T.S.

NOTES:

1. ATTACH TRASH RACK WITH (4) HOT DIPPED GALVANIZED STEEL CLAMPS. EACH CLAMP ATTACHED TO WEIR BOX BY (2) 4"x1/4" CONCRETE ANCHOR BOLTS. EACH CLAMP SHALL BE COATED WITH AN EPOXY COATING.
2. ALL REBAR TO BE GALVANIZED #4 REBAR WITH AN EPOXY COATING.
3. BAR SPACING TO BE ON-CENTER MEASUREMENT.



6" ORIFICE TRASH RACK DETAIL
N.T.S.

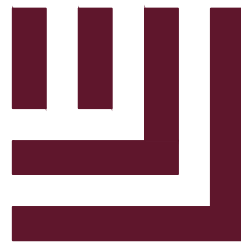
NOTE: THE ONSITE GEOTECHNICAL ENGINEER SHALL CERTIFY ALL COMPONENTS OF THE SAND FILTER.

MATERIAL	SPECIFICATIONS / TEST METHOD	SIZE	NOTES
SAND	CLEAN ASBESTO M-6 OR ASTM C-33 MEDIUM AGGREGATE SAND	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE #30 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR OILUMATIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.
UNDERDRAIN GRAVEL (6" LAYER UNDER CHOKING STONE)	ASTM C-33	#57 STONE	
CHOKING STONE (2" LAYER BETWEEN SAND AND GRAVEL)	ASTM C-33	#8 STONE	
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SAND FILTER MATERIAL SPECIFICATIONS
N.T.S.

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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PLAN INFORMATION

PROJECT NO. TRG-20000
FILENAME TRG20000-SWB
CHECKED BY DCW
DRAWN BY LK
SCALE N.T.S.
DATE 12.21.2020

SHEET

STORMWATER CONTROL
MEASURE 'B' DETAILS

C9.01B