

- MA-22-09 CONDITIONS OF APPROVAL:**
- DEVELOPMENT OF THE PROPERTY SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THE ACCOMPANYING EXHIBIT D CONCEPT PLAN. LOCATIONS SHOWN FOR COMMITTED ELEMENTS INCLUDING, BUT NOT LIMITED TO BUILDINGS, PARKING, AND STORMWATER CONTROL MEASURES SHOWN ON EXHIBIT D, ARE CONCEPTUAL AND PROVIDED FOR ILLUSTRATION AND CONTEXT ONLY. FINAL LOCATIONS OF ELEMENTS SHALL BE DETERMINED AT SUBSEQUENT STAGES OF APPROVAL. SUBJECT TO APPROVAL BY THE TOWN OF ROLESVILLE, THE VEGETATION IN THE AREA THAT EXTENDS AT LEAST 55 (55') FEET FROM THE PROPERTY LINE ABUTTING PINS 1850604353, 1850605343, 1850606333, 1850607323, AND 1850608313 EXISTING AT THE TIME OF SITE DEVELOPMENT PLAN APPLICATION SUBMISSION SHALL NOT BE DISTURBED AND SHALL BE INCLUDED IN THE BUFFER OTHERWISE REQUIRED BY THE LDO (THE "UNDISTURBED VEGETATION AREA"). THIS SHALL EXCLUDE MINOR ENCROACHMENTS FOR SITE DESIGN FEATURES, SUCH AS DRAINAGE AREAS OR PIPES AND UTILITY EASEMENTS.
 - ALL EXTERIOR LIGHT FIXTURES SHALL BE FULL CUTOFF FIXTURES, EXCEEDING THE MINIMUM STANDARD OF "CUTOFF FIXTURES" AS REQUIRED BY LDO § 6.6.G.2.
 - IF THE EXISTING VEGETATION IS REMOVED IN THE BUFFER AREA OTHERWISE REQUIRED BY THE LDO ON THE PROPERTY LINE ABUTTING PIN 1850700632 AND EXTENDING FROM THE UNDISTURBED VEGETATION AREA TO THE RIGHT-OF-WAY ON JONES DAIRY ROAD, THE FOLLOWING ADDITIONAL VEGETATION SHALL BE PROVIDED IN THE REQUIRED BUFFER OR WITHIN 5 (5') FEET OF ANY PERIMETER EASEMENT THAT WOULD PREVENT SUCH PLANTINGS: FAST-GROWING DENSE EVERGREEN TREES 15-FT ON CENTER, THE EVERGREEN TREES SHALL HAVE A MINIMUM MATURE HEIGHT OF 30-FT AND A SPREAD OF 12-FT. INSTALL HEIGHT SHALL BE 4-FT MINIMUM.
 - AT LEAST SEVENTY-FIVE PERCENT (75%) OF ANY REQUIRED PLANTS IN THE STORMWATER CONTROL MEASURE POND, EXCLUDING GRASSES, SHALL BE POLLINATOR PLANTS SUCH AS NATIVE MILKWEEDS AND OTHER NECTAR-RICH FLOWERS.
 - GATES TO ACCESS AREAS WITH EXTERIOR-ACCESS STORAGE UNITS SHALL BE LOCKED BETWEEN 10PM AND 6AM.
 - ON EXTERIOR FACADES FACING A PUBLIC RIGHT-OF-WAY OR EXTERIOR FACADES FACING PINS 1850700632, 1850604353, 1850605343, 1850606333, 1850607323, AND 1850608313:
 - THE FOLLOWING MATERIALS ARE PROHIBITED: CINDERBLOCK, CONCRETE, METAL SIDING, AND VINYL SIDING; AND
 - BRICK, EIFS BRICK, STONE, OR CONCRETE MASONRY COMPONENTS SHALL BE A MINIMUM OF 10%.

SITE PLAN REVIEW DRAWINGS: FOR JONES DAIRY STORAGE FACILITY

1200 JONES DAIRY RD
ROLESVILLE, NC 27587

SITE PLAN#: SDP-23-03
REZONING CASE #: MA-22-09
TEXT AMENDMENT CASE #: TA-22-02

- APPROVED TA-22-02:**
- 5.1.6.D.5.b. - 'INDUSTRIAL, LIGHT' PRINCIPAL USE - SELF-SERVICE STORAGE SHALL BE CONTAINED WITHIN A FULLY ENCLOSED BUILDING AND CONTAINED IN A SINGLE BUILDING. ACCESS INTERNALLY, EXCEPT IN THE GENERAL INDUSTRIAL DISTRICT NOT LOCATED ON N MAIN ST OR S MAIN ST.
 - 5.1.6.I.4. - 'WAREHOUSING' PRINCIPAL USE - EXAMPLES. INCLUDES WAREHOUSES AND MINI-WAREHOUSES.

- APPROVED ALTERNATE PARKING PLAN CONDITIONS:**
- 1 PARKING SPACE PER 100 SELF-STORAGE UNITS.
 - PARKING PERMITTED BETWEEN A PROPOSED BUILDING AND THE STREET FRONTAGE.

ATTENTION CONTRACTORS
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

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5410 Trinity Road, Suite 102 | Raleigh, NC 27607
TEL 919-866-4931 FAX 919-866-4934 www.timmons.com

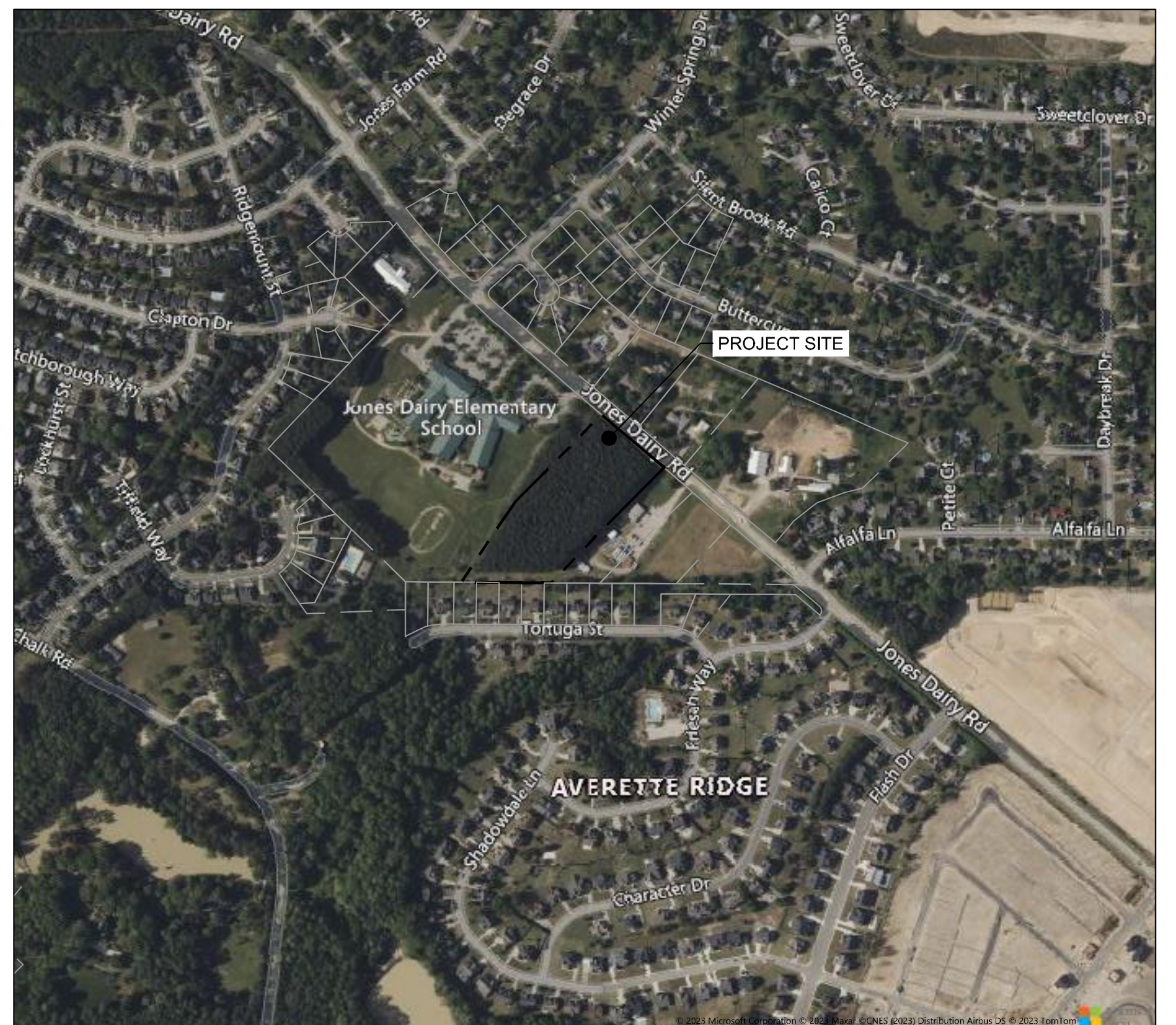
YOUR VISION ACHIEVED THROUGH OURS.

DATE: 04/05/2023
DRAWN BY: L. BARNES
DESIGNED BY: W. ALTMAN
CHECKED BY: W. ALTMAN
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
COVER

SITE DATA TABLE

PROJECT NAME:	JONES DAIRY STORAGE FACILITY
SITE PLAN NUMBER:	SDP-23-03
PROPERTY OWNER/ DEVELOPER:	ROLESVILLE (LOCKBOX) LLC 8816 SIX FORKS ROAD, SUITE 201 RALEIGH, NC 27615
REAL ESTATE ID:	0162697
PIN:	1850608722
DEED ACRES:	5.50 ACRES
PROPERTY ADDRESS:	1200 JONES DAIRY RD, ROLESVILLE NC 27587
PROPERTY ZONING:	GI-CZ
CURRENT USE:	VACANT
PROPOSED USE:	SELF STORAGE (COMMERCIAL)
DISTURBED AREA:	5.77 ACRES
CURRENT IMPERVIOUS:	0 ACRES
PROPOSED IMPERVIOUS:	2.92 ACRES
TREE SAVE SUMMARY:	
REQUIRED TREE PRESERVATION:	10% SAVE = 0.10*4.76 (TREE AREA ON-SITE) = 0.476 ACRES
PROVIDED TREE PRESERVATION:	0.607 ACRES = 13%
PARKING SUMMARY:	
REQUIRED VEHICULAR SPACES:	1 SPACE PER 100 STORAGE UNITS = 540/100 = 6 SPACES
PROVIDED VEHICULAR SPACES:	7 SPACES
ADA PARKING SUMMARY:	
REQUIRED VEHICULAR SPACES:	1 SPACE
PROVIDED VEHICULAR SPACES:	1 SPACE
BUILDING HEIGHT:	MAXIMUM BUILDING HEIGHT: WITHOUT SPRINKLERS: 35-FT WITH SPRINKLERS: 60-FT PROVIDED BUILDING HEIGHTS: 16 FT
BUILDING SQUARE FOOTAGE(S):	CLIMATE CONTROLLED BUILDING: 62,610 SQFT STORAGE BUILDING(S): 1800 SQFT (2), 3600 SQFT (2), 6600 SQFT
NUMBER OF STORAGE UNITS:	TOTAL NUMBER OF UNITS: 540 BUILDING 'A' 5X5: 61 UNITS 5X10: 82 UNITS 10X7.5: 28 UNITS 10X10: 137 UNITS 10X15: 53 UNITS 10X20: 53 UNITS 10X25: 16 UNITS 10X30: 16 UNITS BUILDING 'B' 10X20: 18 UNITS BUILDING 'C' 10X20: 18 UNITS BUILDING 'D' 10X30: 22 UNITS BUILDING 'E' 10X10: 18 UNITS BUILDING 'F' 10X10: 18 UNITS
BUILDING/STRUCTURE SETBACKS:	FRONT: 30-FT SIDE: 15-FT REAR: 35-FT
LANDSCAPE BUFFERS:	ADJACENT PROPERTY: 50' TYPE "4" BUFFER (SOUTH & WEST OF PARCEL) ADJACENT PROPERTY: SEE CONDITION 4 (EAST OF PARCEL)
WATERSHED:	NEUSE RIVER
RIVER BASIN:	SANFORD CREEK (NEUSE)
SURFACE WATER CLASSIFICATION:	NONE



VICINITY MAP
SCALE 1"=500'

PROJECT TEAM

LAND OWNER CONTACT: ROLESVILLE (LOCKBOX) LLC
8816 SIX FORKS ROAD, SUITE 201
RALEIGH NC, 27615

DEVELOPER RIVERCREST REALTY INVESTORS
CONTACT: BRIAN HOLDER
PHONE: (919) 846-4046
8816 SIX FORKS ROAD, SUITE 201
RALEIGH, NC 27615

CIVIL ENGINEER TIMMONS GROUP
CONTACT: WILL ALTMAN
PHONE: (919) 866-4938
5410 TRINITY ROAD, SUITE 102
RALEIGH, NC 27607

Sheet List Table		Sheet List Table	
Sheet Number	Sheet Title	Sheet Number	Sheet Title
C0.0	COVER	C7.0	ROAD WIDENING PLAN - DEMO, SITE AND SIGNAGE & STRIPING PLANS
C0.1	OVERALL SITE PLAN & KEY MAP	C7.1	ROAD WIDENING PLAN - GRADING, DRAINAGE & EROSION CONTROL PLAN
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN	C7.2	JONES DAIRY ROAD - CROSS SECTIONS STA. 10+00 - 10+50
C2.0	SITE PLAN	C7.3	JONES DAIRY ROAD - CROSS SECTIONS STA. 11+00 - 11+50
C2.1	VEHICULAR ROUTING PLAN	C7.4	JONES DAIRY ROAD - CROSS SECTIONS STA. 12+00 - 12+50
C3.0	GRADING & DRAINAGE PLAN	C7.5	JONES DAIRY ROAD - CROSS SECTIONS STA. 13+00 - 13+50
C3.1	SPOT ELEVATION PLAN	C7.6	JONES DAIRY ROAD - CROSS SECTIONS STA. 14+00 - 14+50
C3.2	STORM SEWER PROFILES	C7.7	JONES DAIRY ROAD - CROSS SECTIONS STA. 15+00 - 15+50
C3.3	STORM SEWER PROFILES	C7.8	JONES DAIRY ROAD - CROSS SECTIONS STA. 16+00 - 16+50
C3.4	SCM PLAN & PROFILE	C7.9	JONES DAIRY ROAD DRIVEWAY STEM PROFILE
C3.5	SCM NOTES & DETAILS	L1.0	LANDSCAPE PLAN
C4.0	SITE UTILITY PLAN	L1.1	TREE PRESERVATION PLAN
C4.1	OFF-SITE UTILITY PLAN	L2.0	LANDSCAPE NOTES AND DETAILS
C4.2	OFF-SITE UTILITY PLAN & PROFILE	PS1.0	PUMP STATION SITE AND FORCEMAIN
C4.3	OFF-SITE DETOUR PLAN	PS1.1	PUMP STATION NOTES AND DETAILS
C4.4	FIRE HOSE LAY PLAN	W1.0	HYDRAULIC ANALYSIS LAYOUT AND RESULTS
C5.0	EROSION & SEDIMENTATION CONTROL PLAN - PH I	A-101	FLOOR PLAN
C5.1	EROSION & SEDIMENTATION CONTROL PLAN - PH II	A-200	BUILDING ELEVATIONS - BUILDING A AND B
C6.0	SITE DETAILS	A201	BUILDING ELEVATIONS - BUILDING C AND D
C6.1	SITE DETAILS	A202	BUILDING ELEVATIONS - BUILDING E AND F
C6.2	SITE DETAILS	E-010	SITE PHOTOMETRICS
C6.3	SITE DETAILS		
C6.4	SITE DETAILS		
C6.5	SITE DETAILS		
C6.6	SITE DETAILS		
C6.7	SITE DETAILS		
C6.8	SITE DETAILS		
C6.9	NCG01 GROUND STABILIZATION AND MATERIALS HANDLING		
C6.10	NCG01 SELF-INSPECTION, RECORDKEEPING, AND REPORTING		

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL S-
STORMWATER MGMT. S-
FLOOD STUDY S-
DATE: _____

ENVIRONMENTAL CONSULTANT SIGNATURE

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

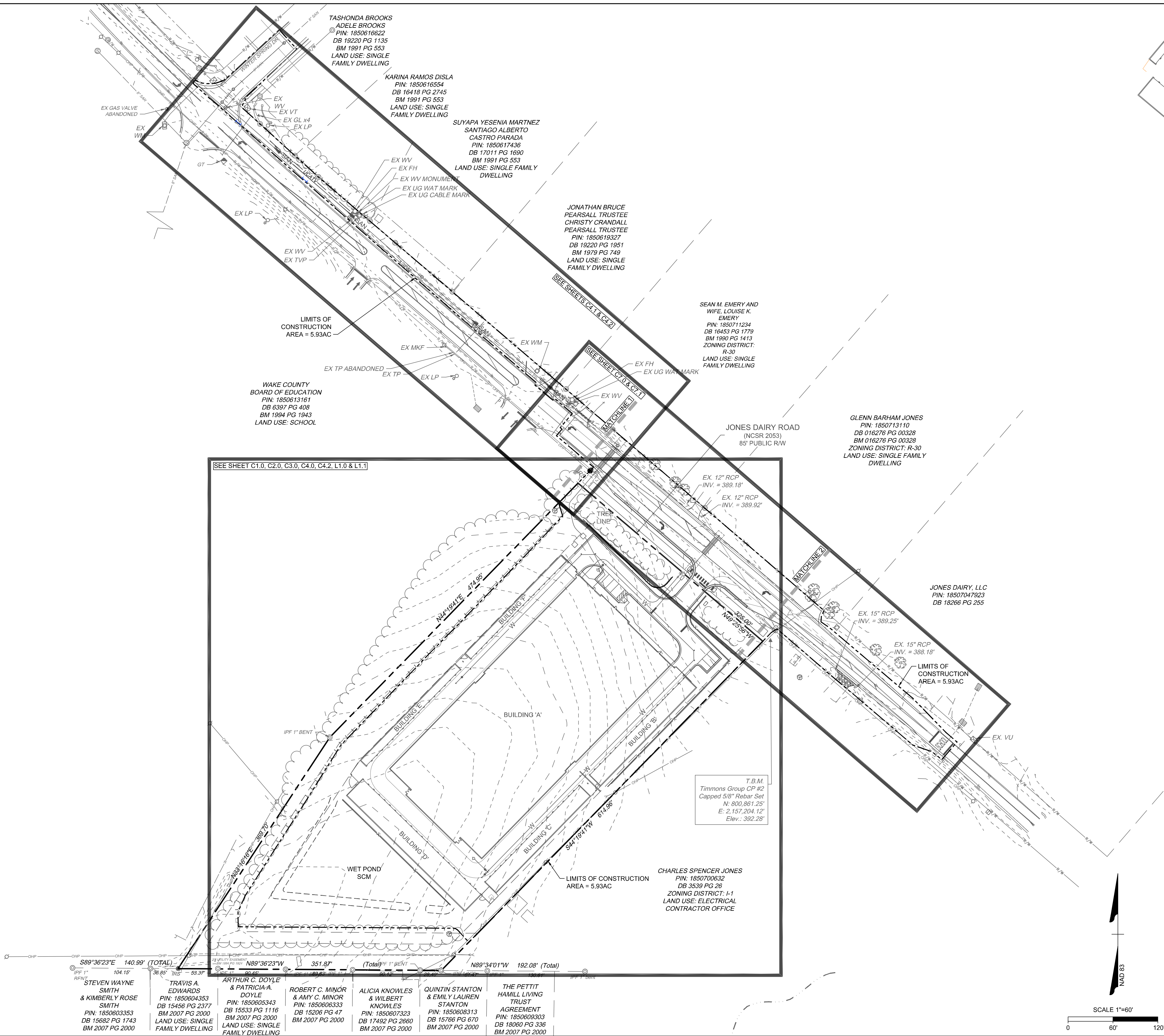
CITY OF RALEIGH DEVELOPMENT APPROVAL _____
RALEIGH WATER REVIEW OFFICER

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-5375
Authorization to Construct _____
Date _____

S:\3334832-Rolesville_Site_ShortDWG\Sheet\CD\54832-C01-C01.dwg | Printed on 6/3/2024 9:59 AM | by Lymae Barnes



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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

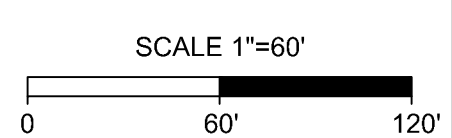
JONES DAIRY STORAGE FACILITY

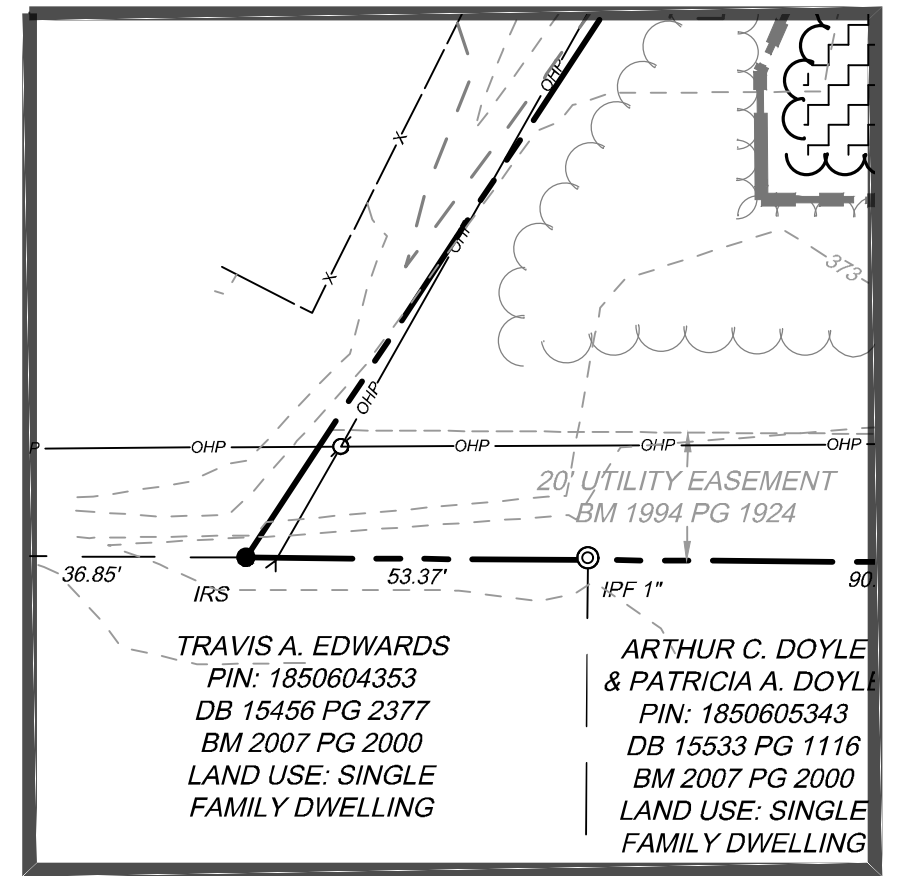
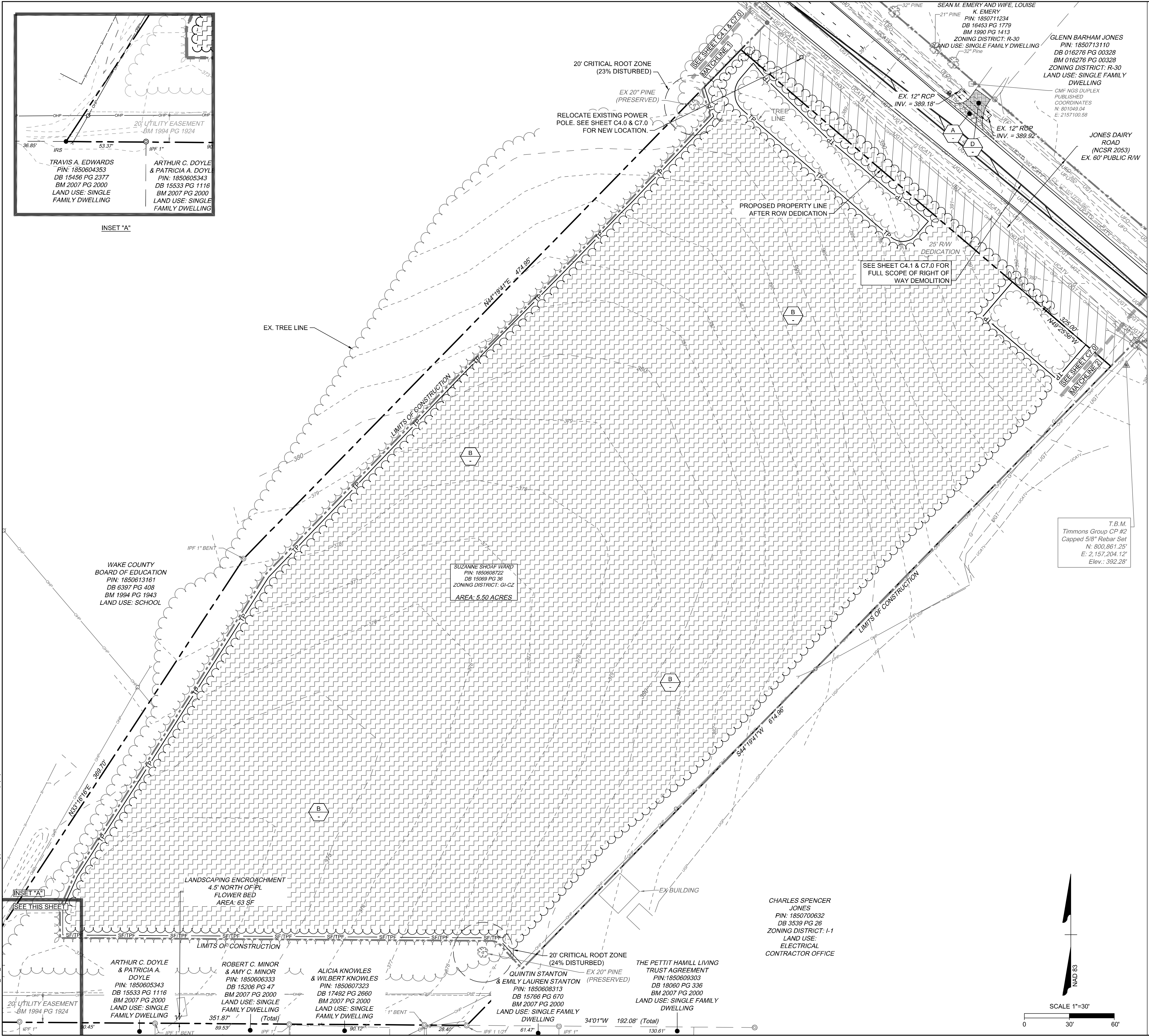
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OVERALL SITE PLAN & KEY MAP

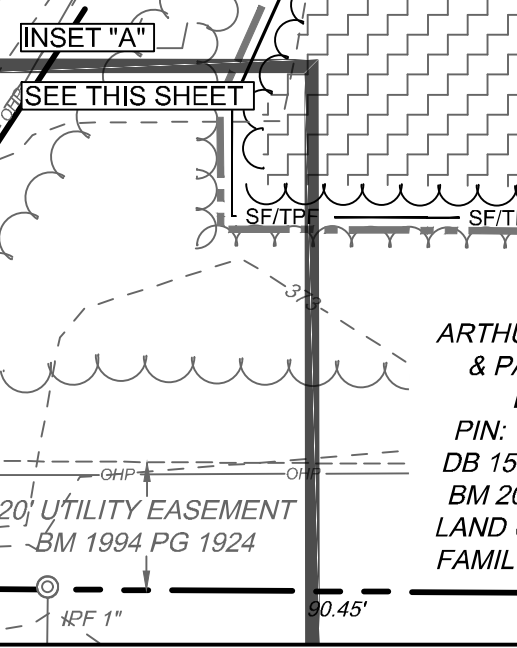
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 SHEET NO. C0.1

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INSET "A"



INSET "A"

- ### DEMOLITION NOTES
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS. CONTRACTOR SHALL SALVAGE ALL SIGNAGE, METERS, ETC. TO OWNER. COORDINATE WITH OWNER PRIOR TO DEMOLITION.
 - CLEAR AND GRUB AS NEEDED WITHIN CONSTRUCTION LIMITS PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS) FOLLOWING APPROVAL OF ENGINEER. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION.
 - ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.
 - PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ENGINEER IMMEDIATELY.
 - THE CONTRACTOR SHALL EMPLOY A QUALIFIED UTILITY LOCATOR SERVICE TO LOCATE ALL UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO ELECTRICAL, TELEPHONE, GAS, CABLE, FIBER OPTIC) WITHIN THE LIMITS OF CONSTRUCTION.
 - VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
 - EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERTY WITH THE PROPOSED FINISHED GRADES (WETHER OR NOT INDICATED TO BE MODIFIED).
 - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - PROTECT EXISTING SITE FURNISHINGS AND PLAYGROUNDS DURING CONSTRUCTION. REPLACE AT NO COST TO THE OWNER IF DAMAGED.
 - A TREE SURVEY PER ROLESVILLE LDO SECTION 6 WAS PERFORMED BY STEVEN BALL, RF AT SOIL & ENVIRONMENTAL CONSULTANTS, PA.
 - ALL TREE PROTECTION FENCING MUST REMAIN IN PLACE THROUGHOUT THE ENTIRE SITE DEVELOPMENT PROCESS UNTIL THE TIME A CERTIFICATE OF OCCUPANCY IS ISSUED

DEMOLITION KEY NOTES

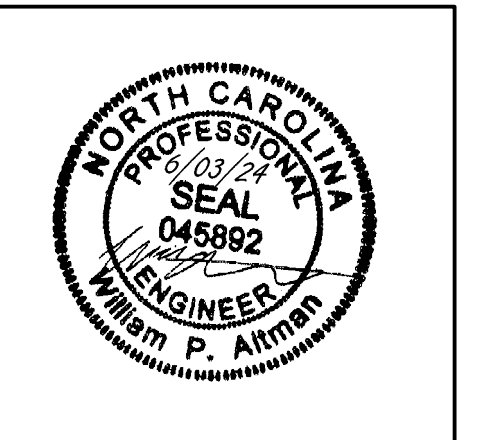
A	REMOVE ASPHALT PAVEMENT AND STONE BASE	
B	TREE CLEARING	
D	SAW CUT AND REMOVE CONCRETE AT NEAREST JOINT.	

EXISTING CONDITIONS LEGEND

EX. CONSTRUCTION LIMITS	
EX. STORM PIPE	
EX. FENCE	
EX. GAS LINE	
EX. POWER LINE	
EX. TELEPHONE LINE	
EX. WATER LINE	
EX. SANITARY SEWER FORCE MAIN	
EX. SANITARY SEWER LINE	
EX. CABLE TV LINE	
EX. FIBER OPTIC LINE	
EX. TREE LINE	
LIGHT POLE	
SITE BOLLARD	
UTILITY POLE	
SANITARY SEWER MANHOLE	
STORM SEWER MANHOLE	
CLEANOUT (SANITARY OR STORM)	
DROP INLET	
FIRE HYDRANT	
WATER VALVE	
TELECOM BOX	
GROUND MOUNTED SIGN	

TREE DISTURBANCE LEGEND

PN	PINE
TREE SAVE AREA NOTES	
TREE SURVEY PERFORMED BY STEVEN BALL, RF, PWS ON 01/30/23.	
TOTAL EXISTING TREES: 4.76 AC	
TOTAL TREE SAVE REQUIRED: 10% OF TOTAL EXISTING TREES: 0.476 AC	
TREE SAVE AREA: 0.592 AC	
TREE CLEAR AREA: 4.168 AC	



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DATE: 04/05/2023
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 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EXISTING CONDITIONS & DEMOLITION PLAN

JOB NO. 54832
 SHEET NO. C1.0

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TRAFFIC CONTROL NOTES

- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- PAVEMENT MARKINGS WITHIN RIGHT-OF-WAY SHALL BE THERMOPLASTIC. PAVEMENT MARKINGS ON SITE SHALL BE 2-COATS ALKYD RESIN PAINT.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
- SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
- ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
- "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
- "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

STRIPING KEY NOTES

	NCDOT STD.	WIDTH	COLOR
11 C6.0	HIGH VISIBILITY CROSSWALK MARKINGS	-	WHITE
1 C6.2	PARKING STALL AND TRAFFIC STRIPE	1205.07 (STD)	4-IN WHITE
7 C6.2	ACCESSIBLE PARKING LAYOUT	-	WHITE
10 C6.2	FIRE LANE MARKING	1205.01	4-IN YELLOW
E -	STOP BAR	1205.01	24-IN WHITE

SIGNAGE KEY NOTES

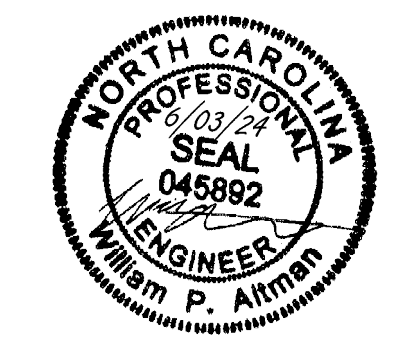
	MUTCD
2 C6.2	STOP SIGN R1-1 (PER PLAN & DETAIL)
3 C6.2	VAN ACCESSIBLE PARKING SIGN R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
M -	GROUND SIGN (REQUIRES SEPARATE PERMIT)

SITE LAYOUT NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
- ALL RADII ARE DIMENSIONED FROM BACK OF CURB. IF NOT STATED, RADII DIMENSION IS 5'.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
- ALL CURB AND GUTTER OFFSITE SHALL BE 30" WIDE UNLESS NOTED OTHERWISE.
- ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS. RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
- COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION. PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
- ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.

KEY NOTES

1 C6.0	ACCESSIBLE CURB RAMP	
2 C6.0	STANDARD DUTY CONCRETE PAVEMENT	
3 C6.0	HEAVY DUTY CONCRETE PAVEMENT	
4 C6.0	STANDARD DUTY ASPHALT PAVEMENT	
5 C6.0	LIGHT DUTY ASPHALT PAVEMENT	
9 C6.0	NCDOT 30" CONCRETE CURB & GUTTER	
10 C6.0	CURB ENDING TAPER	
1 C6.1	ORNAMENTAL FENCE	
2 C6.1	ORNAMENTAL FENCE PRIVACY SLATS	
3 C6.1	ORNAMENTAL GATES WITH ADJACENT KNOX BOX (SEE PLAN FOR GATE WIDTH)	
4 C6.2	MODULAR RETAINING WALL	
5 C6.2	BOLLARD TYP.	
6 C6.2	24" CONCRETE CURB & GUTTER	
-	RELOCATE OR PROVIDE TURN DOWN GUY WIRE BAR	
-	10-FT X 70-FT SIGHT TRIANGLE	



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YOUR VISION. ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
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06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

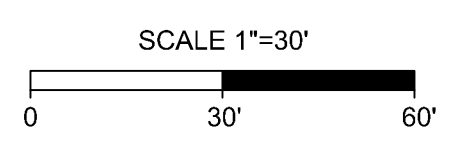
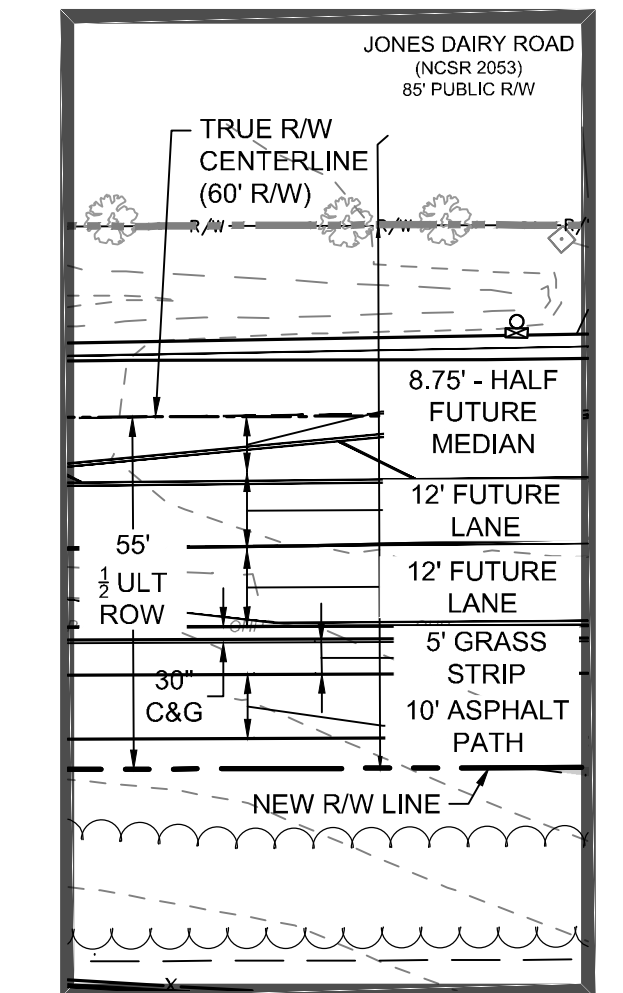
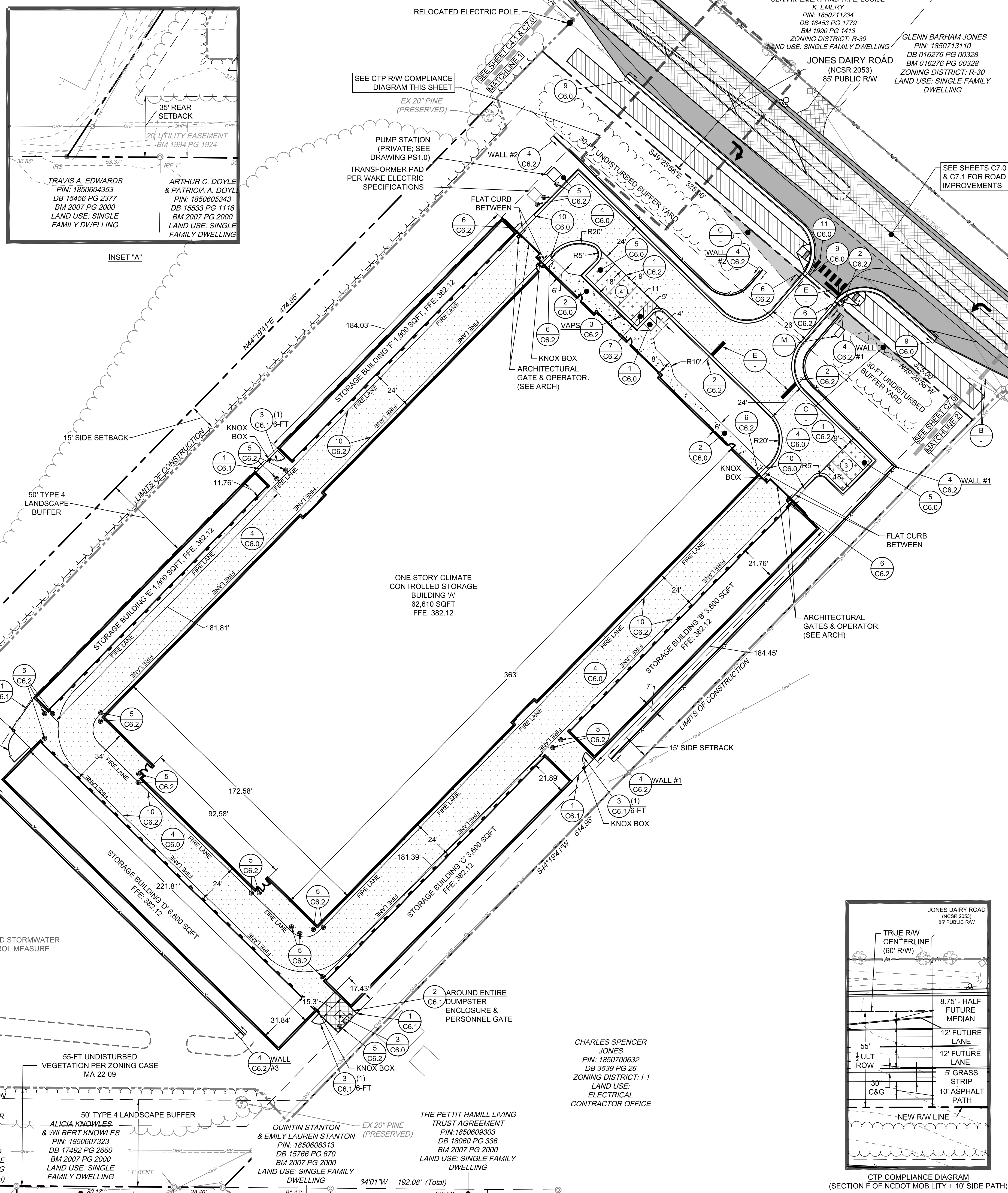
DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SITE PLAN

JOB NO. 54832
 SHEET NO. C2.0



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DATE
 04/05/2023

DRAWN BY
L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

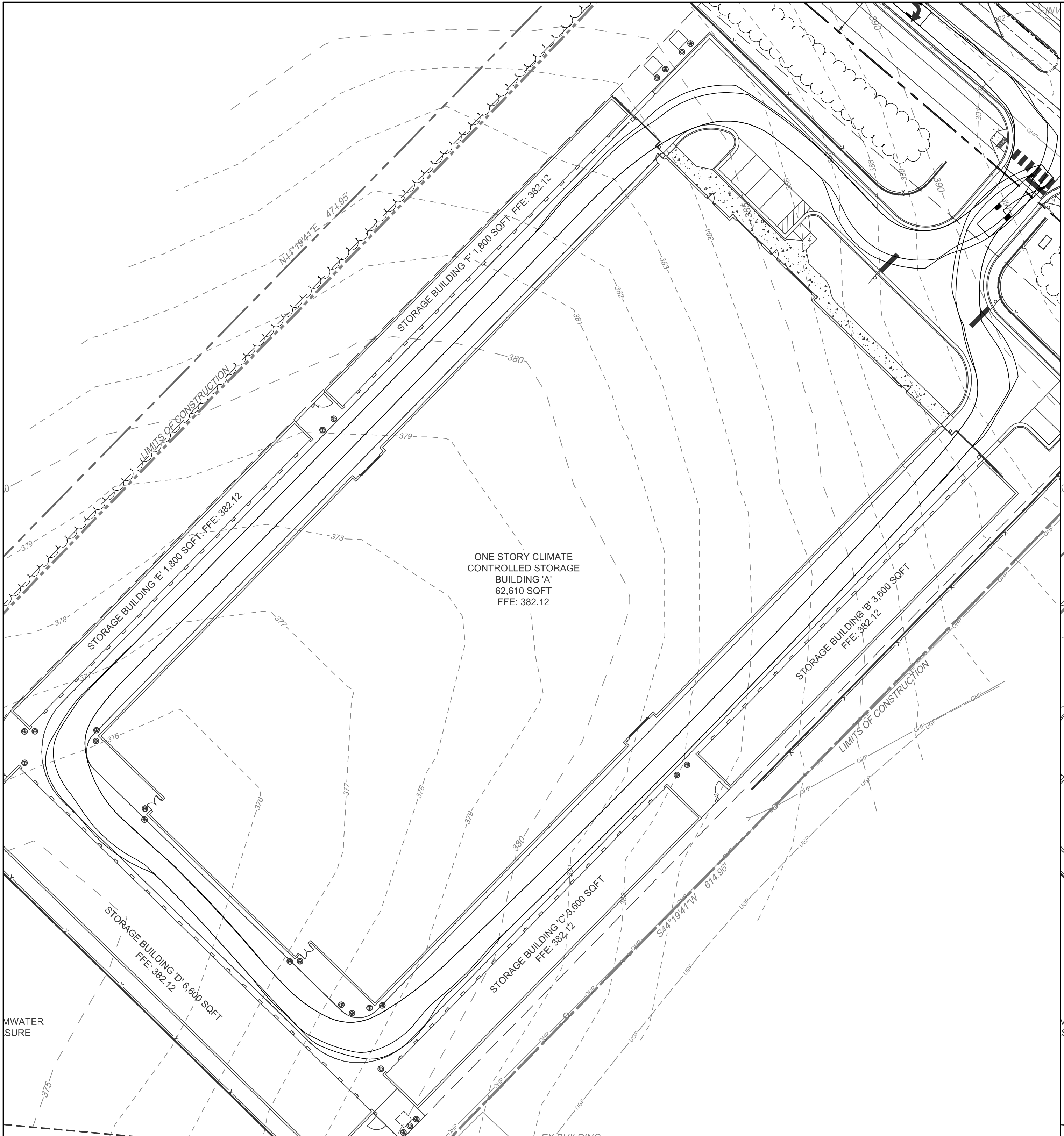
SCALE
 AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

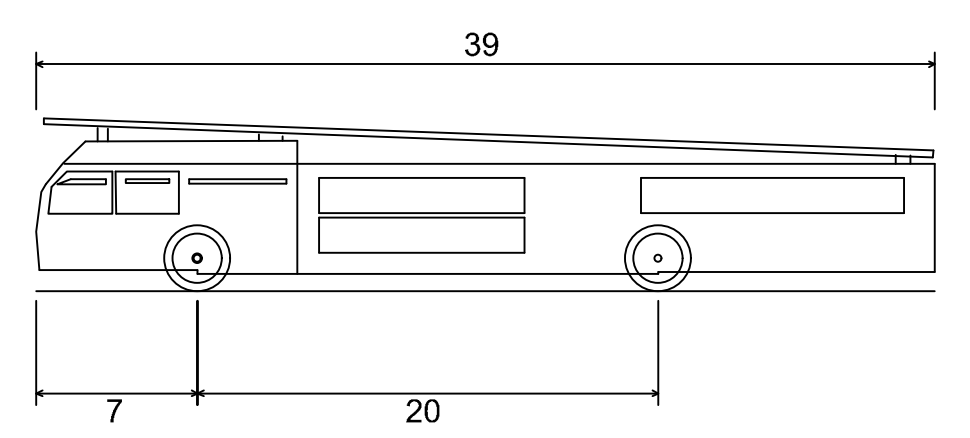
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

VEHICULAR ROUTING PLAN

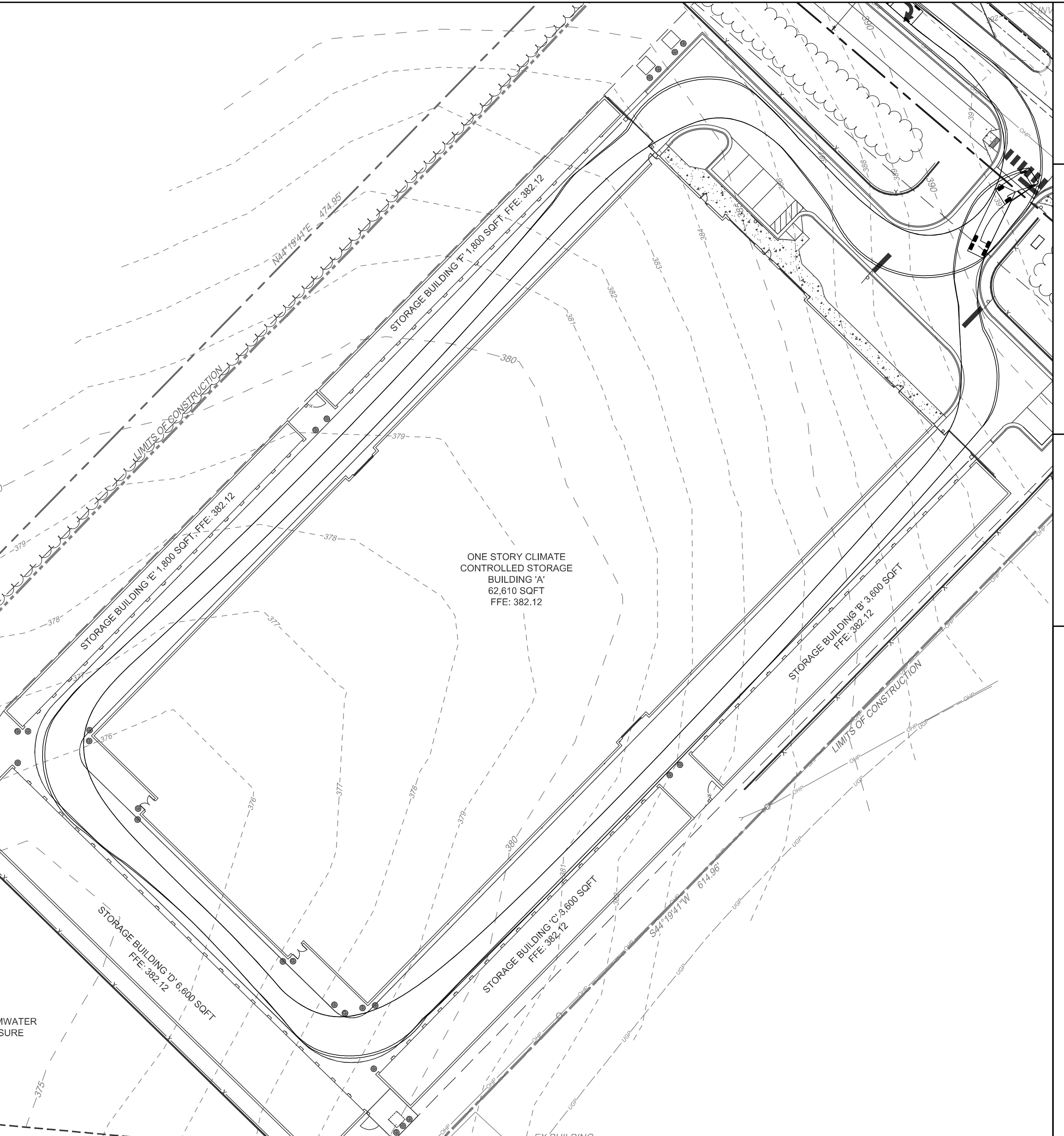
JOB NO.
54832
 SHEET NO.
C2.1



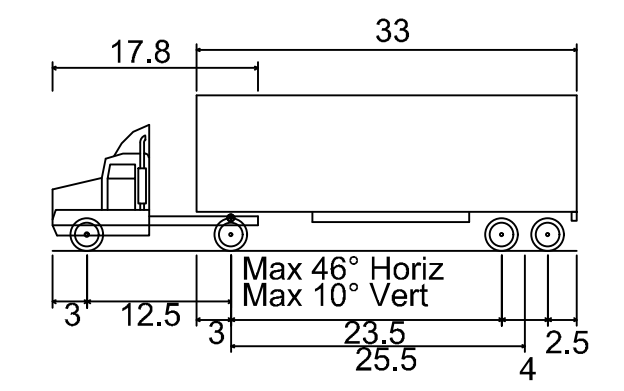
FIRE LADDER APPARATUS TURNING PLAN



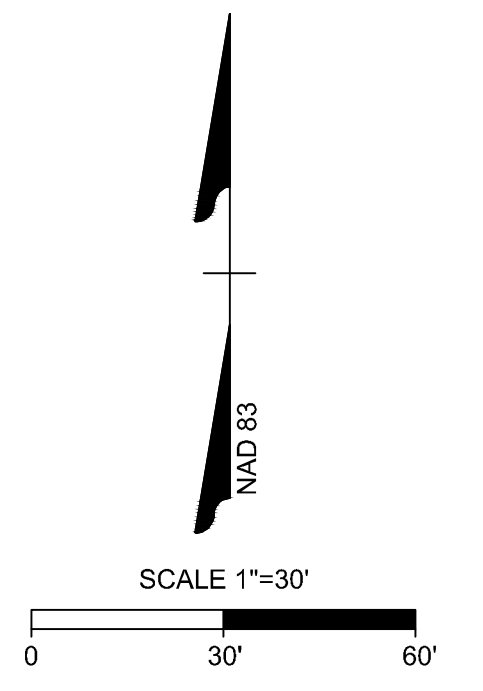
Aerial Fire Truck	39.000ft
Overall Length	8.167ft
Overall Width	7.500ft
Overall Body Height	0.750ft
Min Body Ground Clearance	8.167ft
Track Width	5.00s
Lock-to-lock time	45.00°
Max Wheel Angle	



WB-40 INTERMEDIATE SEMI-TRAILER TURNING PLAN

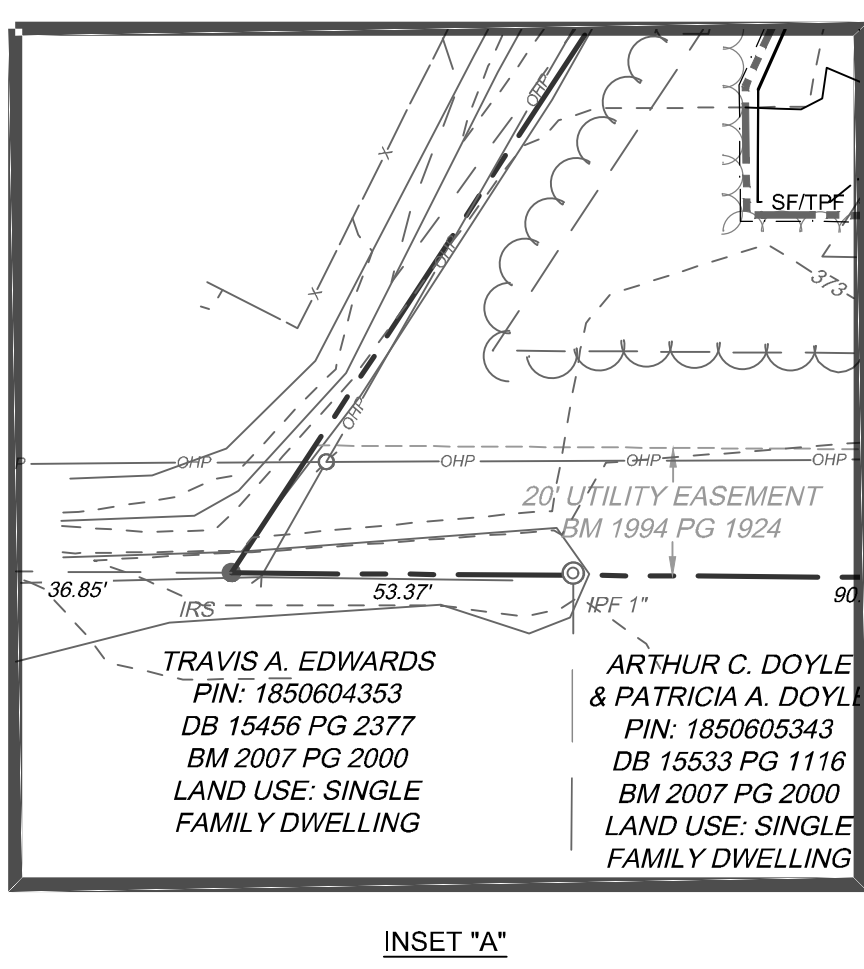
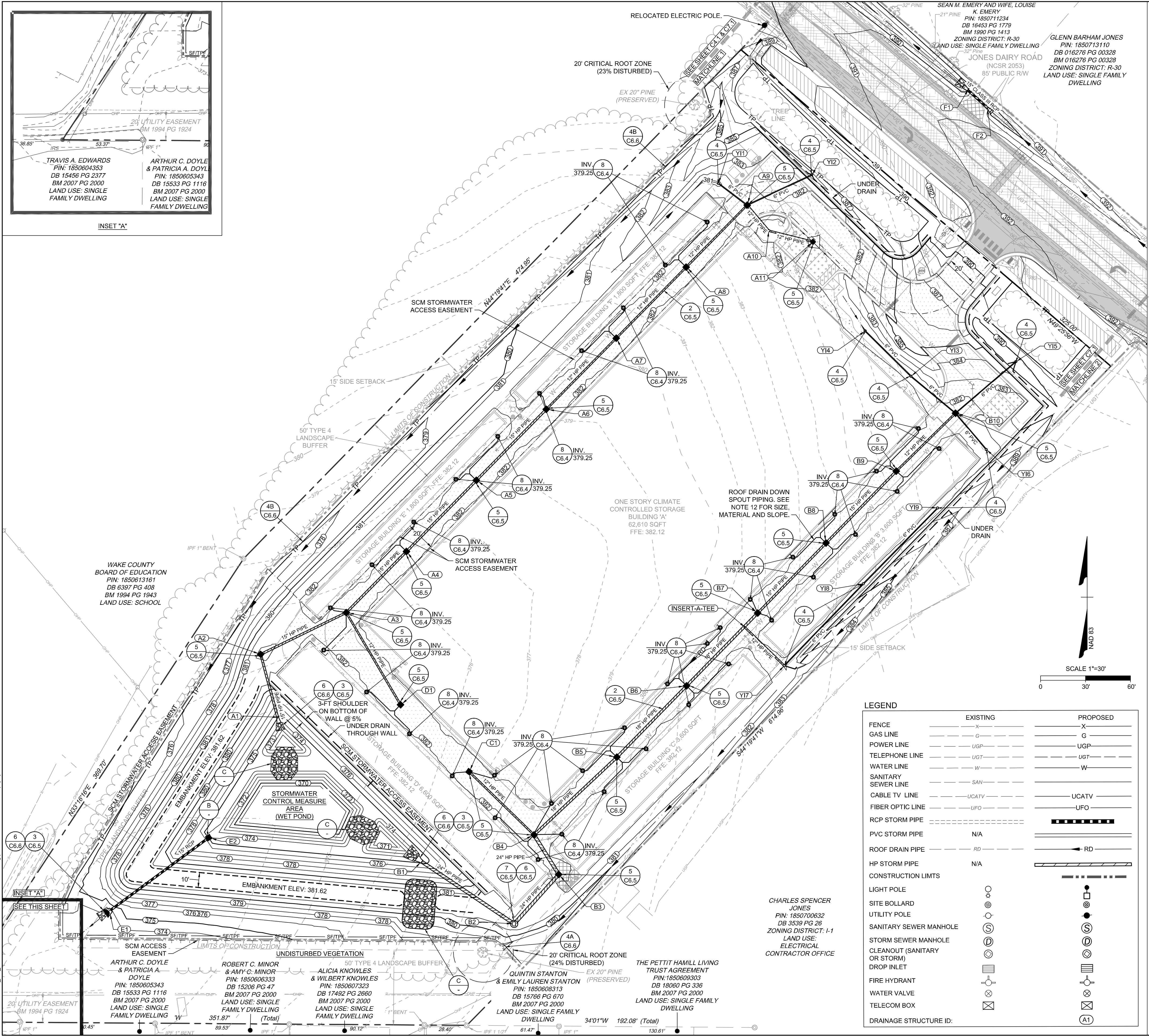


WB-40 - Intermediate Semi-Trailer	45.499ft
Overall Length	8.000ft
Overall Width	13.500ft
Overall Body Height	1.334ft
Min Body Ground Clearance	8.000ft
Track Width	4.00s
Lock-to-lock time	20.30°
Max Steering Angle (Virtual)	



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- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
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 - SPOT GRADE ABBREVIATIONS:
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 - EP: EDGE OF PAVEMENT
 - HP: HIGH POINT
 - SWK: SIDEWALK
 - FFE: FINISHED FLOOR ELEVATION
 - TW: TOP OF WALL
 - BW: BOTTOM OF WALL
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 - GND: GROUND
 - EX GND: EXISTING GROUND
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- ### KEY NOTES
- 8 C6.4 DOWNSPOUT BOOT CONNECTOR
 - 1 C6.5 STORM SEWER CLEANOUT
 - 2 C6.5 STORM DRAINAGE TRENCHES
 - 3 C6.5 FLARED END SECTION
 - 4 C6.5 YARD INLET
 - 5 C6.5 CONCRETE DROP INLET
 - 6 C6.5 STORM SEWER MANHOLE
 - 7 C6.5 STORM SEWER MANHOLE COVER
 - 4A C6.6 SILT FENCE (COMBINATION FENCE; SEE TREE FENCE DETAIL; SEE EROSION CONTROL PLAN)
 - 4B C6.6 TREE PROTECTION FENCE (SEE EROSION CONTROL PLAN)
 - 6 C6.6 RIP RAP OUTLET PROTECTION (SEE EROSION CONTROL PLAN)
 - B CONCRETE RISER STRUCTURE (SEE SHEET C3.5)
 - C CLASS B RIP RAP. SEE SCM DETAIL SHEETS.

LEGEND

	EXISTING	PROPOSED
FENCE	- - - - -	- - - - -
GAS LINE	- - - - -	- - - - -
POWER LINE	- - - - -	- - - - -
TELEPHONE LINE	- - - - -	- - - - -
WATER LINE	- - - - -	- - - - -
SANITARY SEWER LINE	- - - - -	- - - - -
CABLE TV LINE	- - - - -	- - - - -
FIBER OPTIC LINE	- - - - -	- - - - -
RCP STORM PIPE	- - - - -	- - - - -
PVC STORM PIPE	- - - - -	- - - - -
ROOF DRAIN PIPE	- - - - -	- - - - -
HP STORM PIPE	- - - - -	- - - - -
CONSTRUCTION LIMITS	- - - - -	- - - - -
LIGHT POLE	○	○
SITE BOLLARD	●	●
UTILITY POLE	○	○
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE CLEANOUT (SANITARY OR STORM)	⊙	⊙
DROP INLET	⊙	⊙
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
TELECOM BOX	⊙	⊙
DRAINAGE STRUCTURE ID:	○	○

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DESIGNED BY	W. ALTMAN
CHECKED BY	W. ALTMAN
SCALE	AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

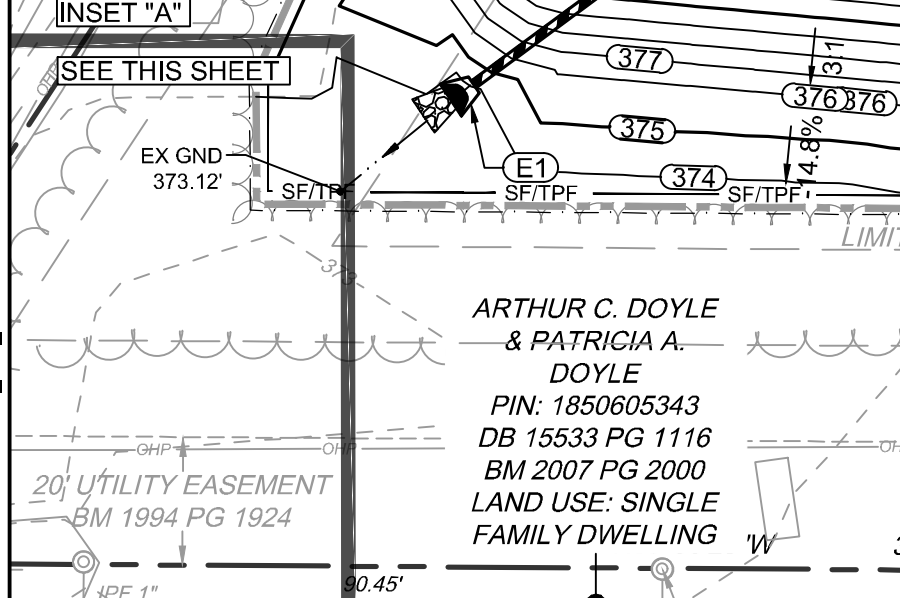
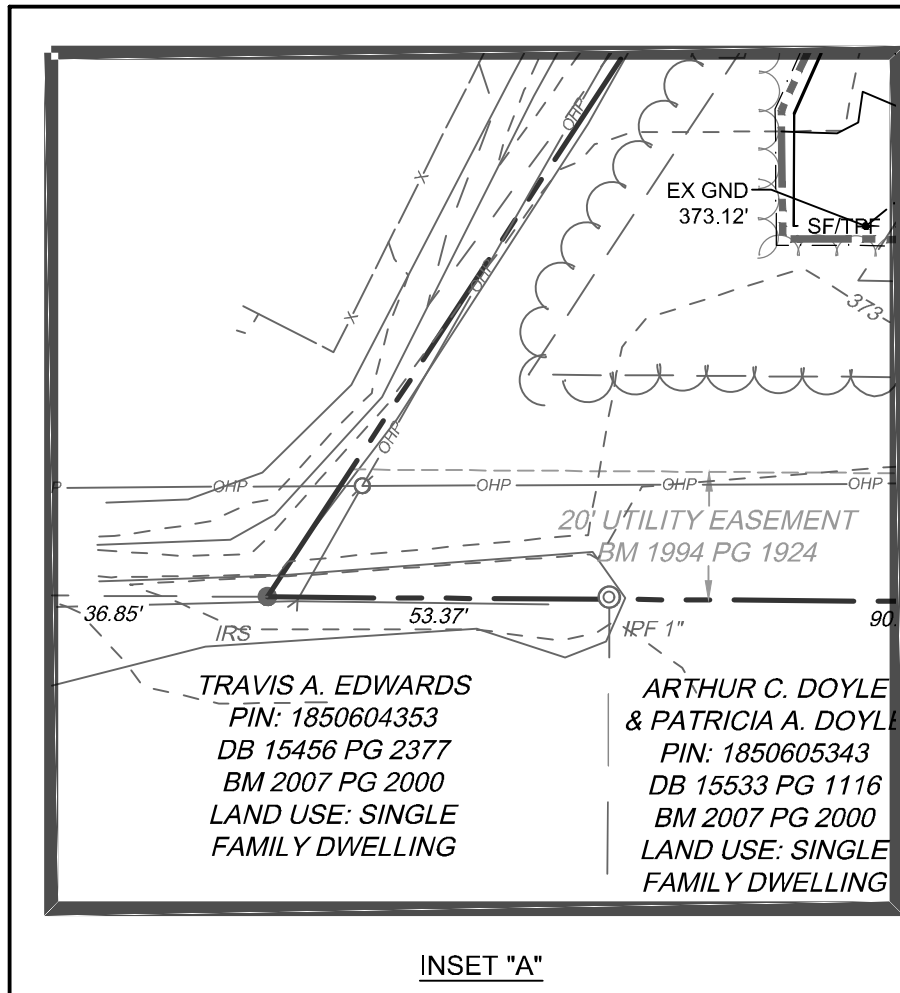
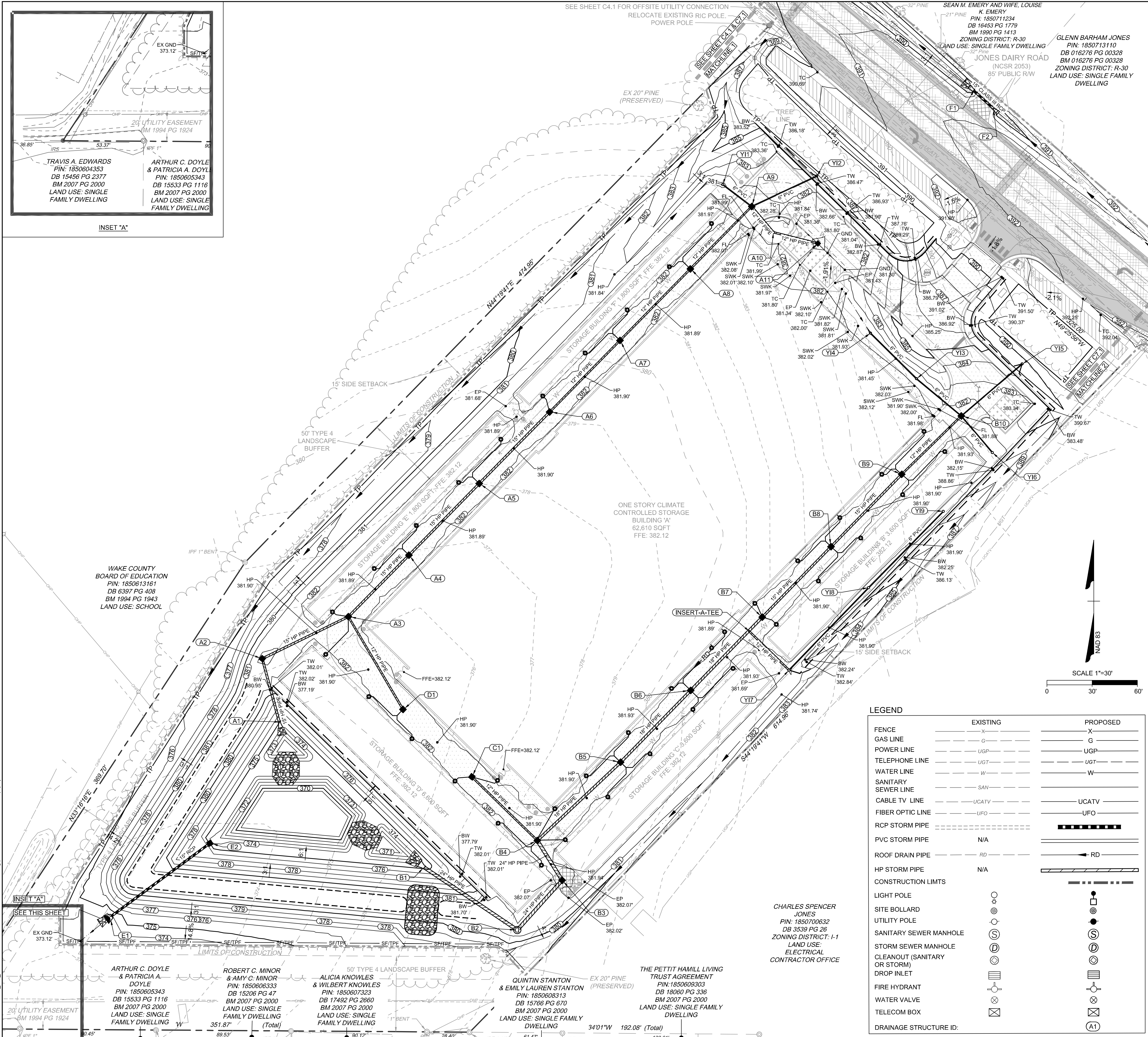
JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

GRADING & DRAINAGE PLAN

JOB NO.	54832
SHEET NO.	C3.0

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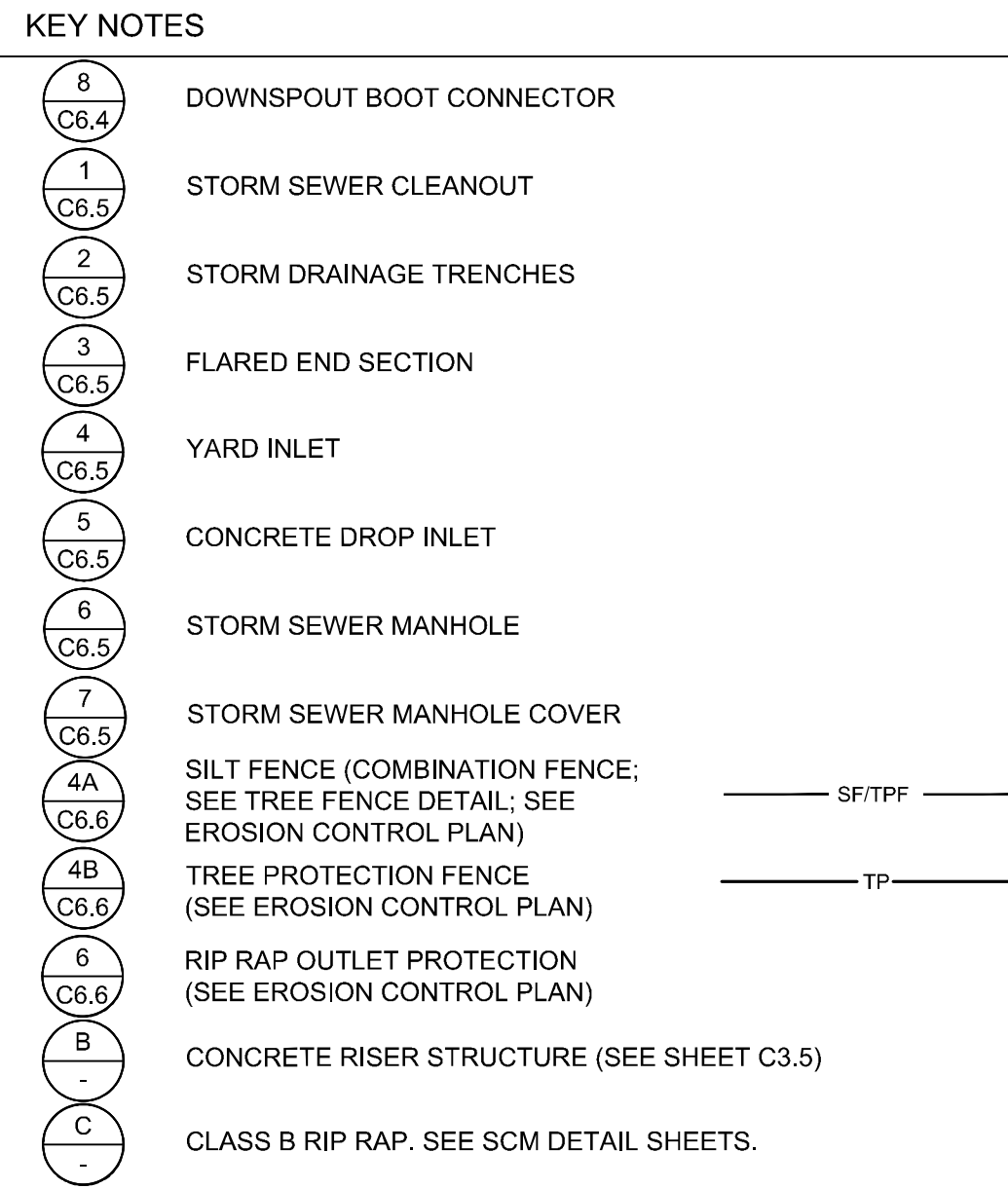
SEE SHEET C4.1 FOR OFFSITE UTILITY CONNECTION
RELOCATE EXISTING RIC POLE
POWER POLE

SEAN M. EMERY AND WIFE, LOUISE
K. EMERY
PIN: 1850711234
DB 16453 PG 1413
BM 1990 PG 1413
ZONING DISTRICT: R-30
LAND USE: SINGLE FAMILY DWELLING

JONES DAIRY ROAD
(NCSR 2053)
85' PUBLIC R/W
GLENN BARHAM JONES
PIN: 1850713110
DB 016276 PG 00328
BM 016276 PG 00328
ZONING DISTRICT: R-30
LAND USE: SINGLE FAMILY DWELLING

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UTILITY POLE	- - - - -	- - - - -
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STORM SEWER MANHOLE CLEANOUT (SANITARY OR STORM)	- - - - -	- - - - -
DROP INLET	- - - - -	- - - - -
FIRE HYDRANT	- - - - -	- - - - -
WATER VALVE	- - - - -	- - - - -
TELECOM BOX	- - - - -	- - - - -
DRAINAGE STRUCTURE ID:	- - - - -	- - - - -

CHARLES SPENCER JONES
PIN: 1850700632
DB 3539 PG 28
ZONING DISTRICT: I-1
LAND USE: ELECTRICAL CONTRACTOR OFFICE

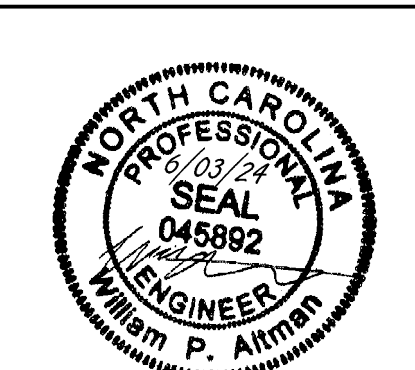
THE PETTIT HAMILL LIVING TRUST AGREEMENT
PIN: 1850609303
DB 18060 PG 336
BM 2007 PG 2000
LAND USE: SINGLE FAMILY DWELLING

QUINTIN STANTON & EMILY LAUREN STANTON
PIN: 1850608313
DB 15766 PG 670
BM 2007 PG 2000
LAND USE: SINGLE FAMILY DWELLING

ARTHUR C. DOYLE & PATRICIA A. DOYLE
PIN: 1850605343
DB 15533 PG 1116
BM 2007 PG 2000
LAND USE: SINGLE FAMILY DWELLING

ROBERT C. MINOR & AMY G. MINOR
PIN: 1850606333
DB 15206 PG 47
BM 2007 PG 2000
LAND USE: SINGLE FAMILY DWELLING

ALICIA KNOWLES & WILBERT KNOWLES
PIN: 1850607323
DB 17492 PG 2660
BM 2007 PG 2000
LAND USE: SINGLE FAMILY DWELLING



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CHECKED BY: W. ALTMAN
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SPOT ELEVATION PLAN

JOB NO. 54832
SHEET NO. C3.1

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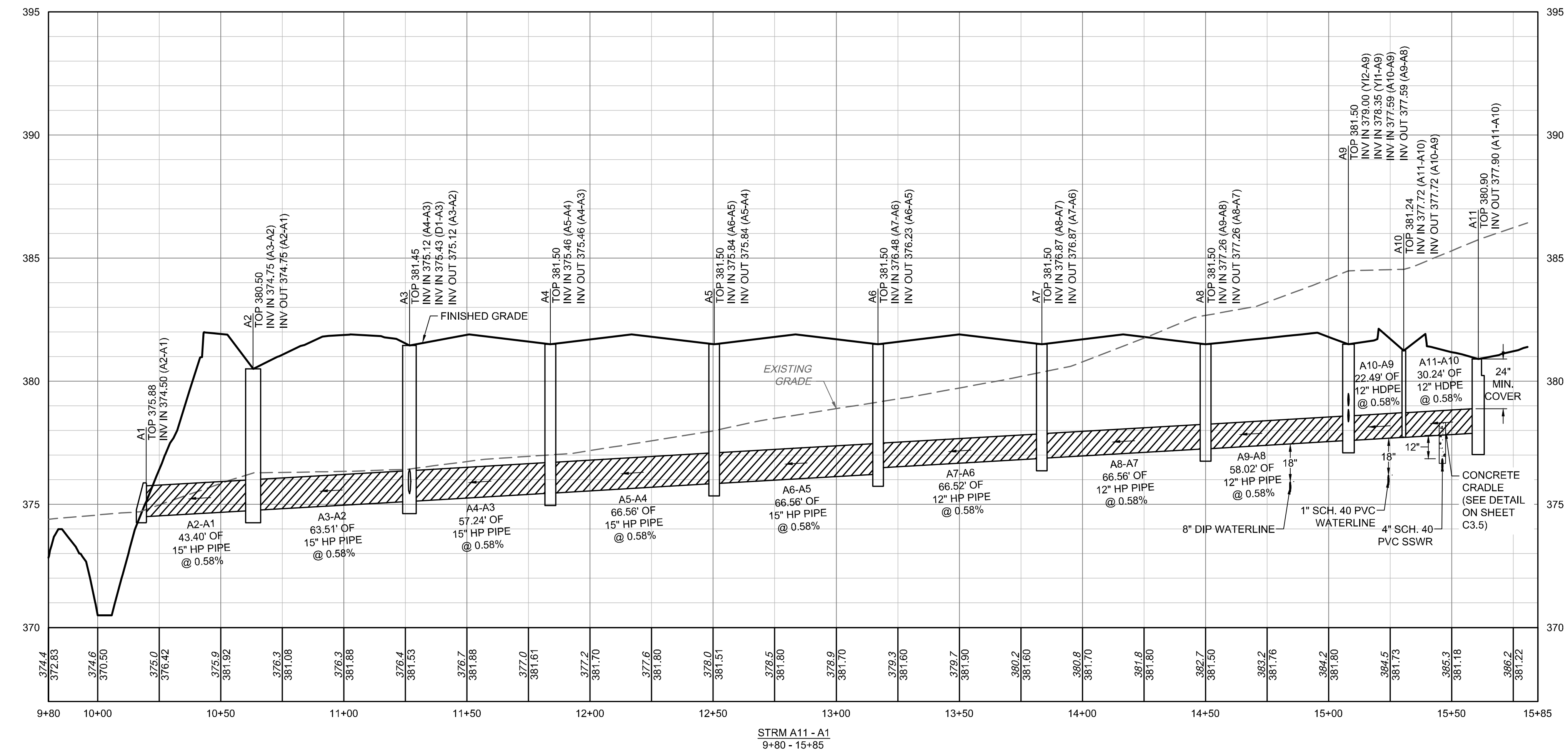
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

STORM SEWER PROFILES

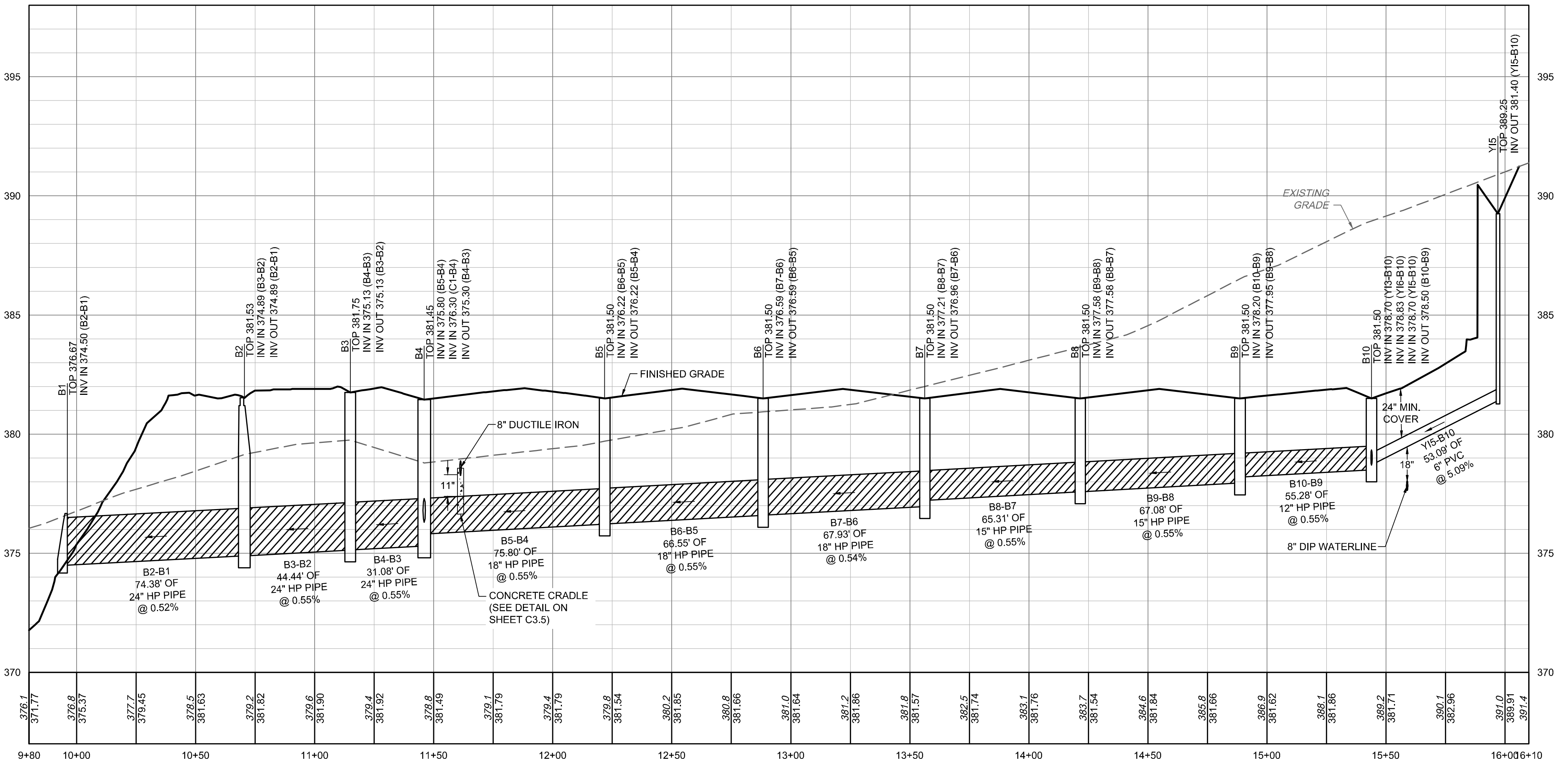
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 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 STORM SEWER PROFILES

JOB NO.
54832
 SHEET NO.
C3.2

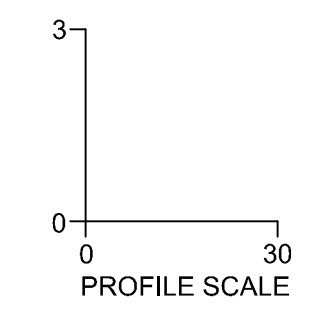
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STRM A11 - A1
 9+80 - 15+85



STRM Y15 - B1
 9+80 - 16+10

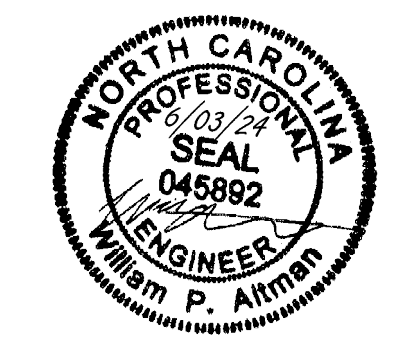
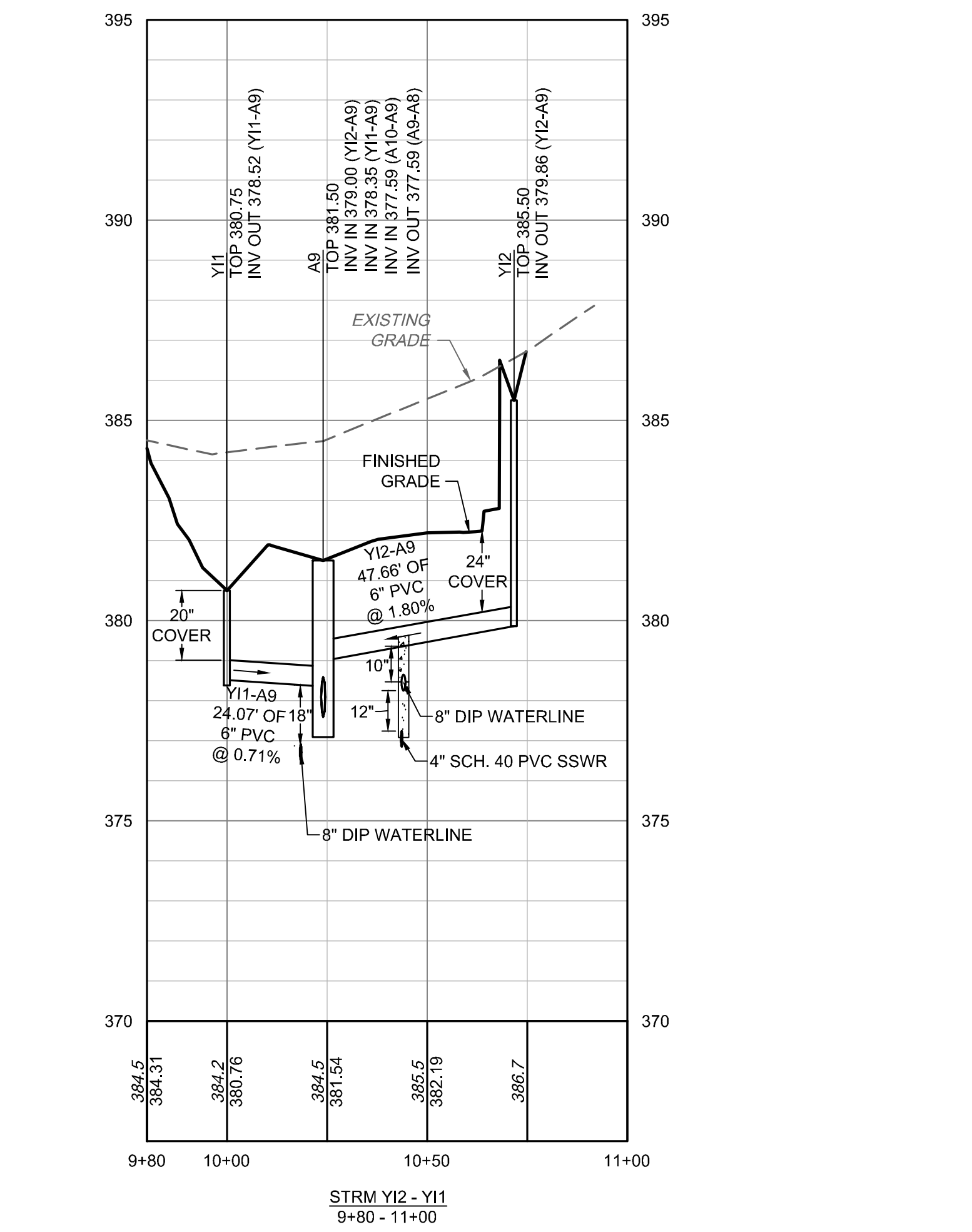
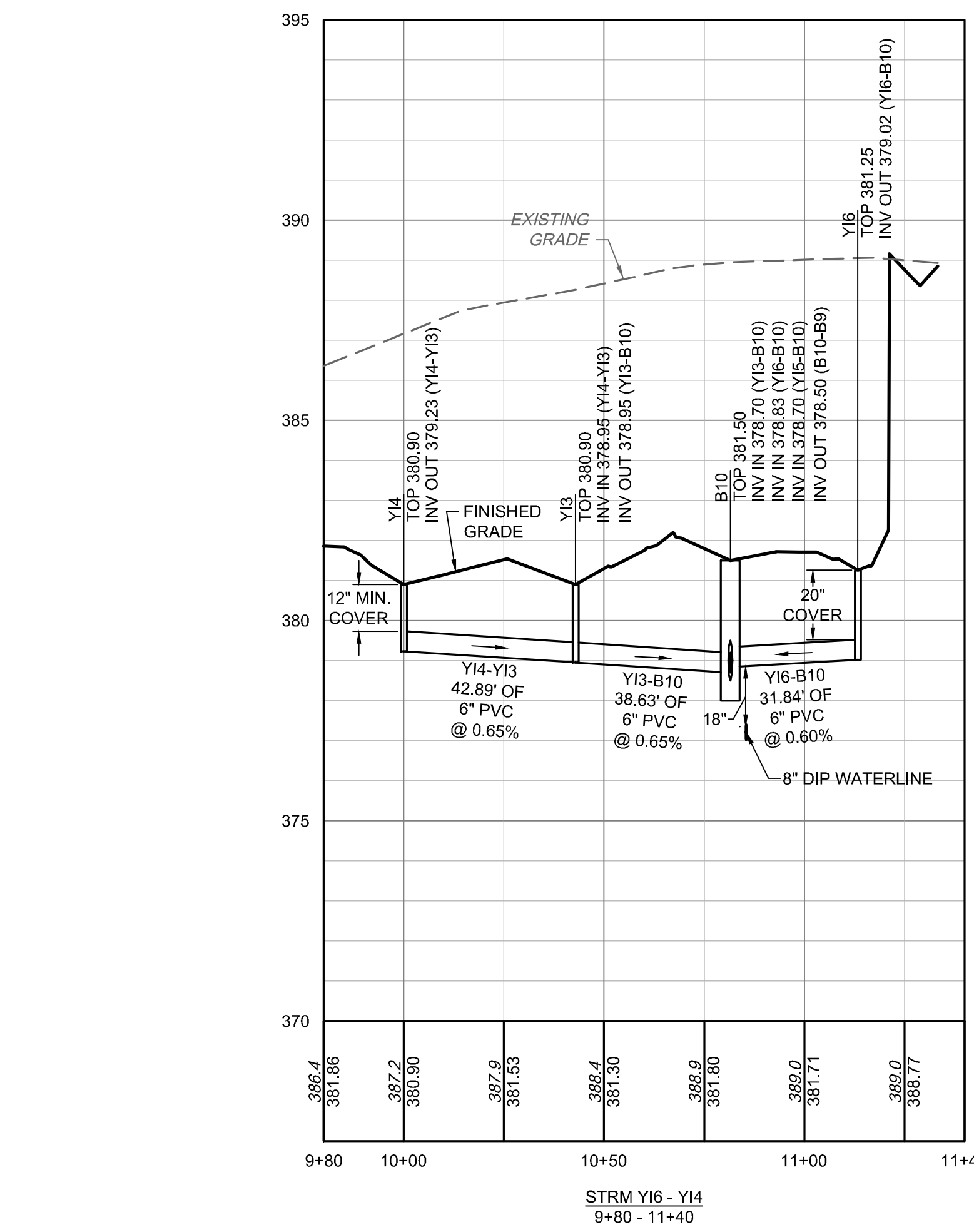
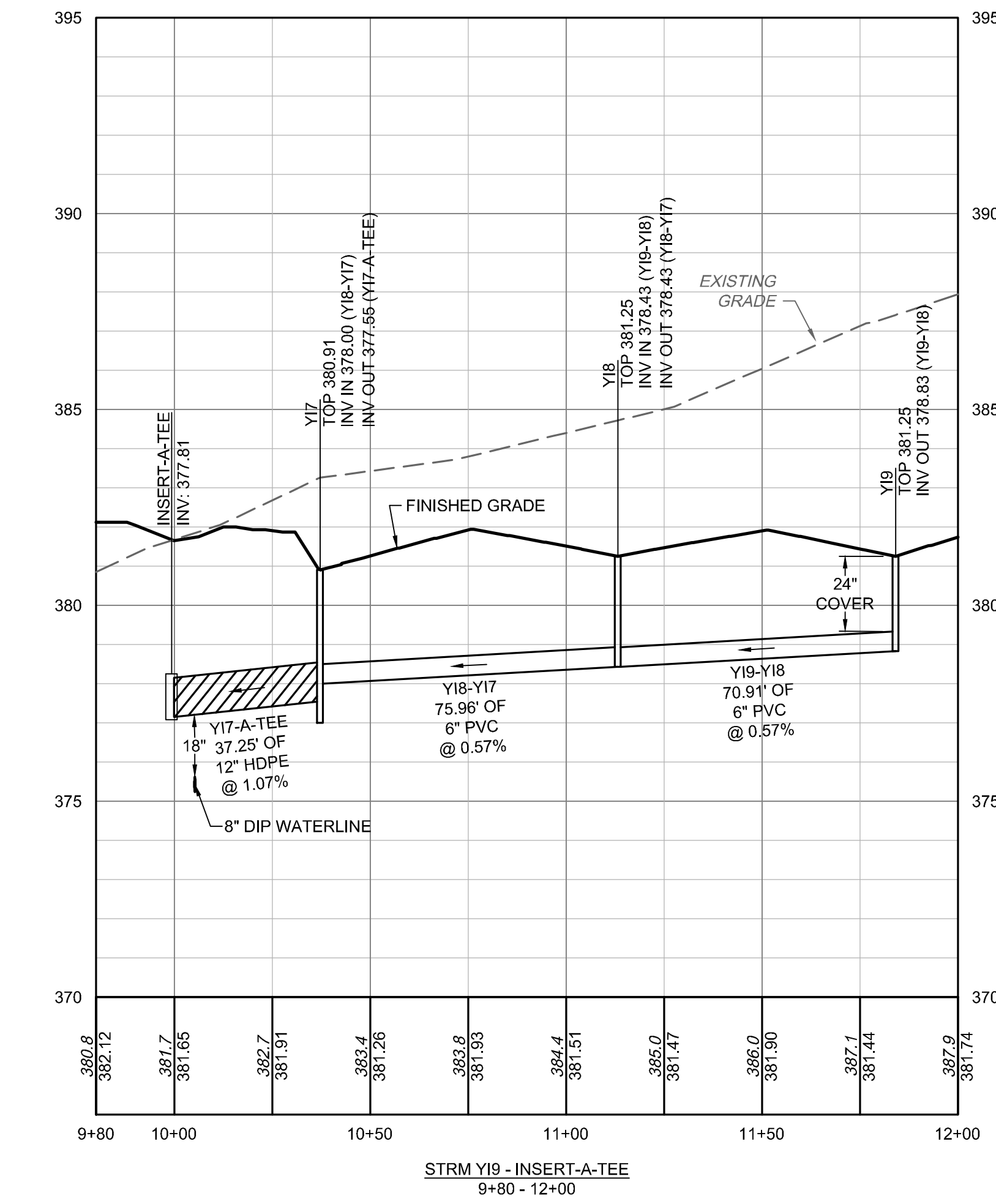
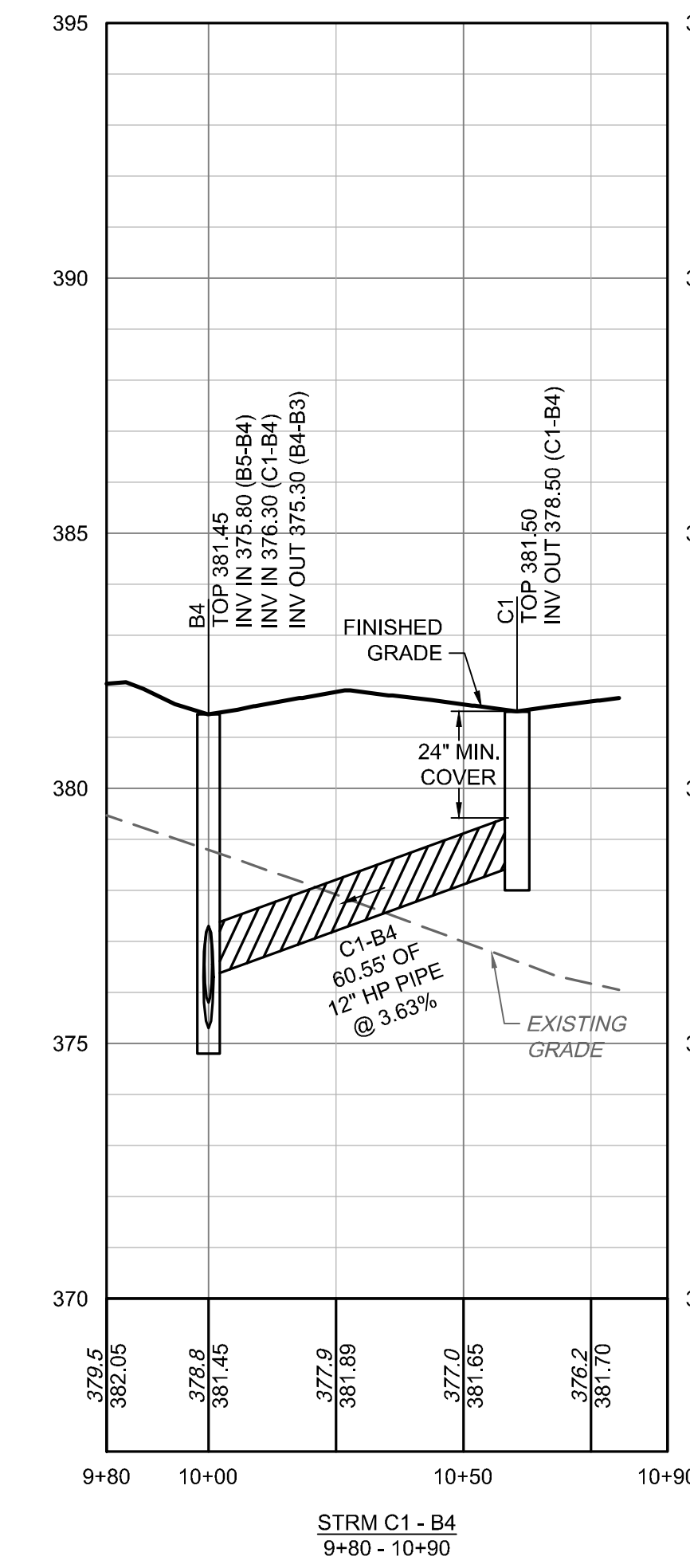
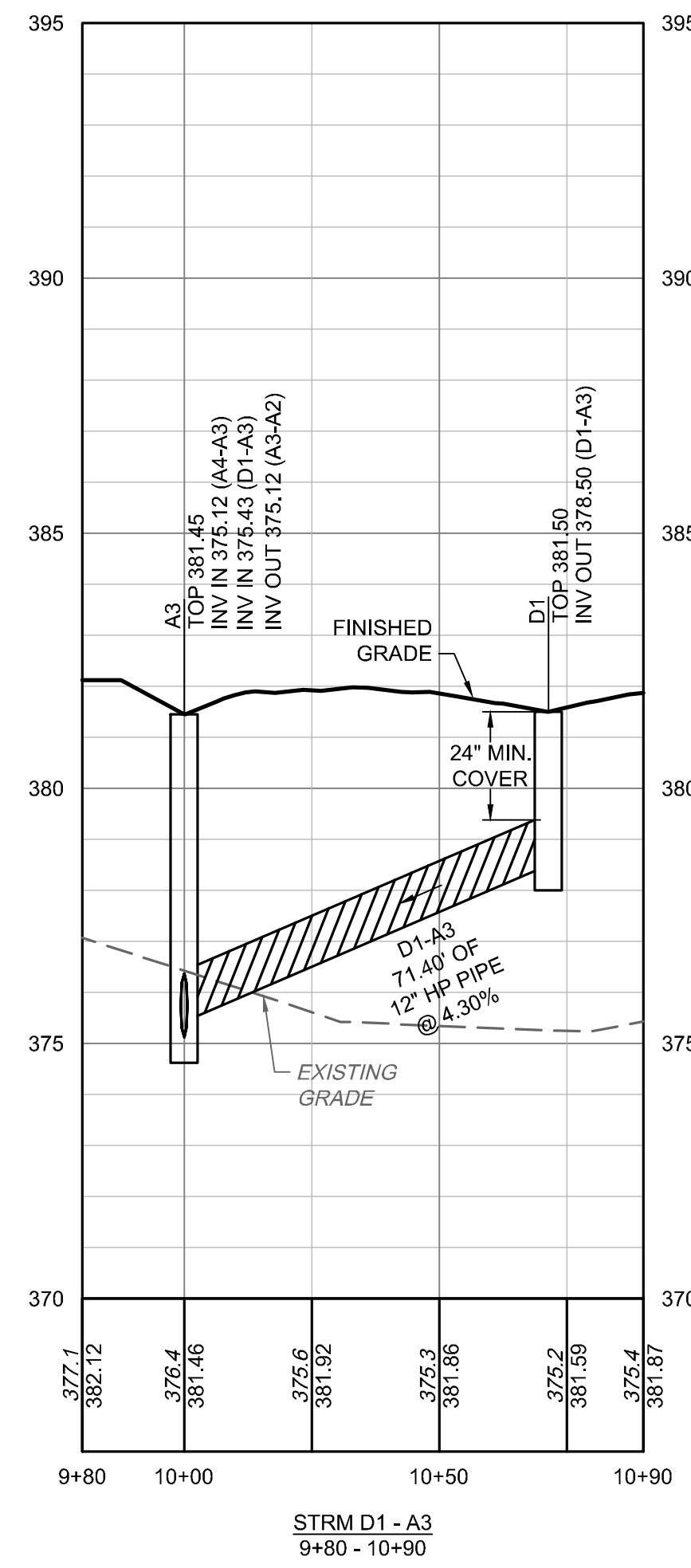


STORM STRUCTURE TABLE			
STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
A1	375.88	N/A	15" FES
A2	380.50	5.75'	CONCRETE DROP INLET
A3	381.45	6.33'	CONCRETE DROP INLET
A4	381.50	6.04'	CONCRETE DROP INLET
A5	381.50	5.66'	CONCRETE DROP INLET
A6	381.50	5.27'	CONCRETE DROP INLET
A7	381.50	4.63'	CONCRETE DROP INLET
A8	381.50	4.24'	CONCRETE DROP INLET
A9	381.50	3.91'	CONCRETE DROP INLET
A10	381.24	3.52'	YARD INLET
A11	380.90	3.00'	CONCRETE CURB INLET
B1	376.67	N/A	24" FES
B2	381.53	6.64'	MANHOLE
B3	381.75	6.62'	CONCRETE DROP INLET
B4	381.45	6.15'	CONCRETE DROP INLET
B5	381.50	5.28'	CONCRETE DROP INLET
B6	381.50	4.91'	CONCRETE DROP INLET
B7	381.50	4.54'	CONCRETE DROP INLET
B8	381.50	3.92'	CONCRETE DROP INLET
B9	381.50	3.55'	CONCRETE DROP INLET
B10	381.50	3.00'	CONCRETE DROP INLET
C1	381.50	3.00'	CONCRETE DROP INLET
D1	381.50	3.00'	CONCRETE DROP INLET
E1	374.84	N/A	15" FES
E2	379.50	5.70'	CONCRETE DROP INLET
INSERT-A-TEE	378.31	N/A	INSERT-A-TEE
Y11	380.75	2.37'	YARD INLET
Y12	385.50	5.64'	YARD INLET
Y13	380.90	1.95'	YARD INLET
Y14	380.90	1.67'	YARD INLET
Y15	389.25	7.99'	YARD INLET
Y16	381.25	2.23'	YARD INLET
Y17	380.91	3.91'	YARD INLET
Y18	381.25	2.82'	YARD INLET
Y19	381.25	2.42'	YARD INLET

NCDOT STORM STRUCTURE TABLE			
STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
F1	390.44	N/A	15" FES
F2	390.19	N/A	15" FES
F3	389.69	N/A	15" FES
F4	390.19	N/A	15" FES
F5	387.44	N/A	15" FES
F6	387.94	N/A	15" FES
F7	386.19	N/A	15" FES
F8	386.69	N/A	15" FES

STORM PIPE TABLE						
PIPE #	DIA	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
A2-A1	15"	374.75	374.50	0.58%	43.40 LF	15" HP PIPE
A3-A2	15"	375.12	374.75	0.58%	63.51 LF	15" HP PIPE
A4-A3	15"	375.46	375.12	0.58%	57.24 LF	15" HP PIPE
A5-A4	15"	375.84	375.46	0.58%	66.56 LF	15" HP PIPE
A6-A5	15"	376.23	375.84	0.58%	66.56 LF	15" HP PIPE
A7-A6	12"	376.87	376.48	0.58%	66.52 LF	12" HP PIPE
A8-A7	12"	377.26	376.87	0.58%	66.56 LF	12" HP PIPE
A9-A8	12"	377.59	377.26	0.58%	58.02 LF	12" HP PIPE
A11-A10	12"	377.90	377.72	0.58%	30.24 LF	12" HP PIPE
B2-B1	24"	374.89	374.50	0.52%	74.38 LF	24" HP PIPE
B3-B2	24"	375.13	374.89	0.55%	44.44 LF	24" HP PIPE
B4-B3	24"	375.30	375.13	0.55%	31.08 LF	24" HP PIPE
B5-B4	18"	376.22	375.80	0.55%	75.80 LF	18" HP PIPE
B6-B5	18"	376.59	376.22	0.55%	66.55 LF	18" HP PIPE
B7-B6	18"	376.96	376.59	0.54%	67.93 LF	18" HP PIPE
B8-B7	15"	377.58	377.21	0.55%	65.31 LF	15" HP PIPE
B9-B8	15"	377.95	377.58	0.55%	67.08 LF	15" HP PIPE
B10-B9	12"	378.50	378.20	0.55%	55.28 LF	12" HP PIPE
C1-B4	12"	378.50	376.30	3.63%	60.55 LF	12" HP PIPE
D1-A3	12"	378.50	375.43	4.30%	71.40 LF	12" HP PIPE
E2-E1	15"	373.80	373.40	0.48%	82.89 LF	15" RCP
Y11-A9	6"	378.52	378.35	0.71%	24.07 LF	6" PVC
Y12-A9	6"	379.86	379.00	1.80%	47.66 LF	6" PVC
Y13-B10	6"	378.95	378.70	0.65%	38.63 LF	6" PVC
Y14-Y13	6"	379.23	378.95	0.65%	42.89 LF	6" PVC
Y15-B10	6"	381.40	378.70	5.09%	53.09 LF	6" PVC
Y16-B10	6"	379.02	378.83	0.60%	31.84 LF	6" PVC
Y17-A-TEE	12"	377.55	377.15	1.07%	37.25 LF	12" HP PIPE
Y18-Y17	6"	378.43	378.00	0.57%	75.96 LF	6" PVC
Y19-Y18	6"	378.83	378.43	0.57%	70.91 LF	6" PVC

NCDOT STORM PIPE TABLE						
PIPE #	DIA	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
F2-F1	15"	389.00	388.75	1.40%	17.85 LF	15" CLASS III RCP
F4-F3	15"	388.75	388.25	1.59%	31.45 LF	15" CLASS III RCP
F6-F5	15"	386.50	386.00	2.40%	20.83 LF	15" CLASS III RCP
F8-F7	15"	385.25	384.75	2.04%	24.54 LF	15" CLASS III RCP



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 DATE: 11/01/2023
 DATE: 03/21/2024
 DATE: 05/01/2024
 DATE: 06/03/2024

REVISION DESCRIPTION
 ADDRESSSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
 ADDRESSSED NCDOT REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023

DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

CHECKED BY: W. ALTMAN

SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

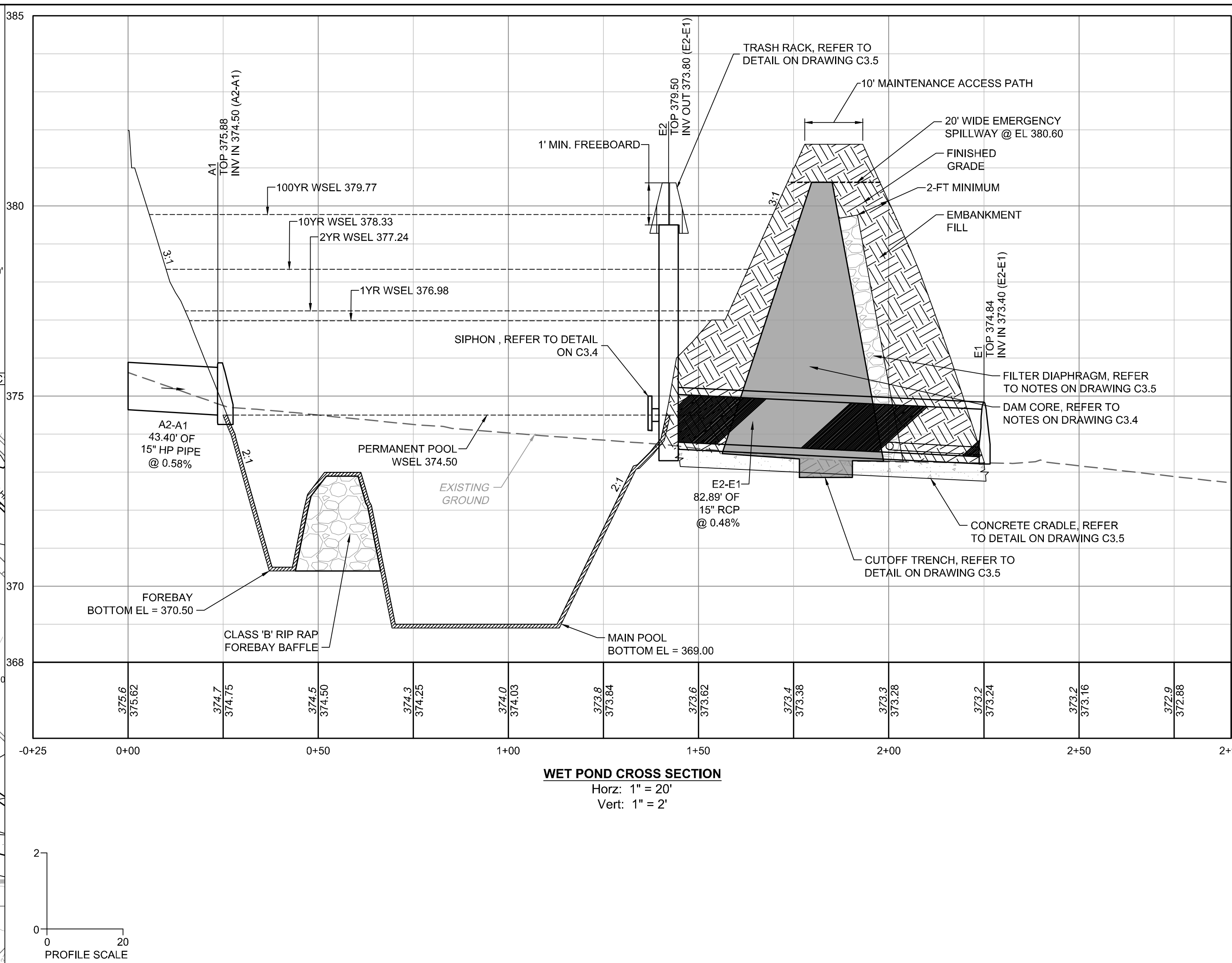
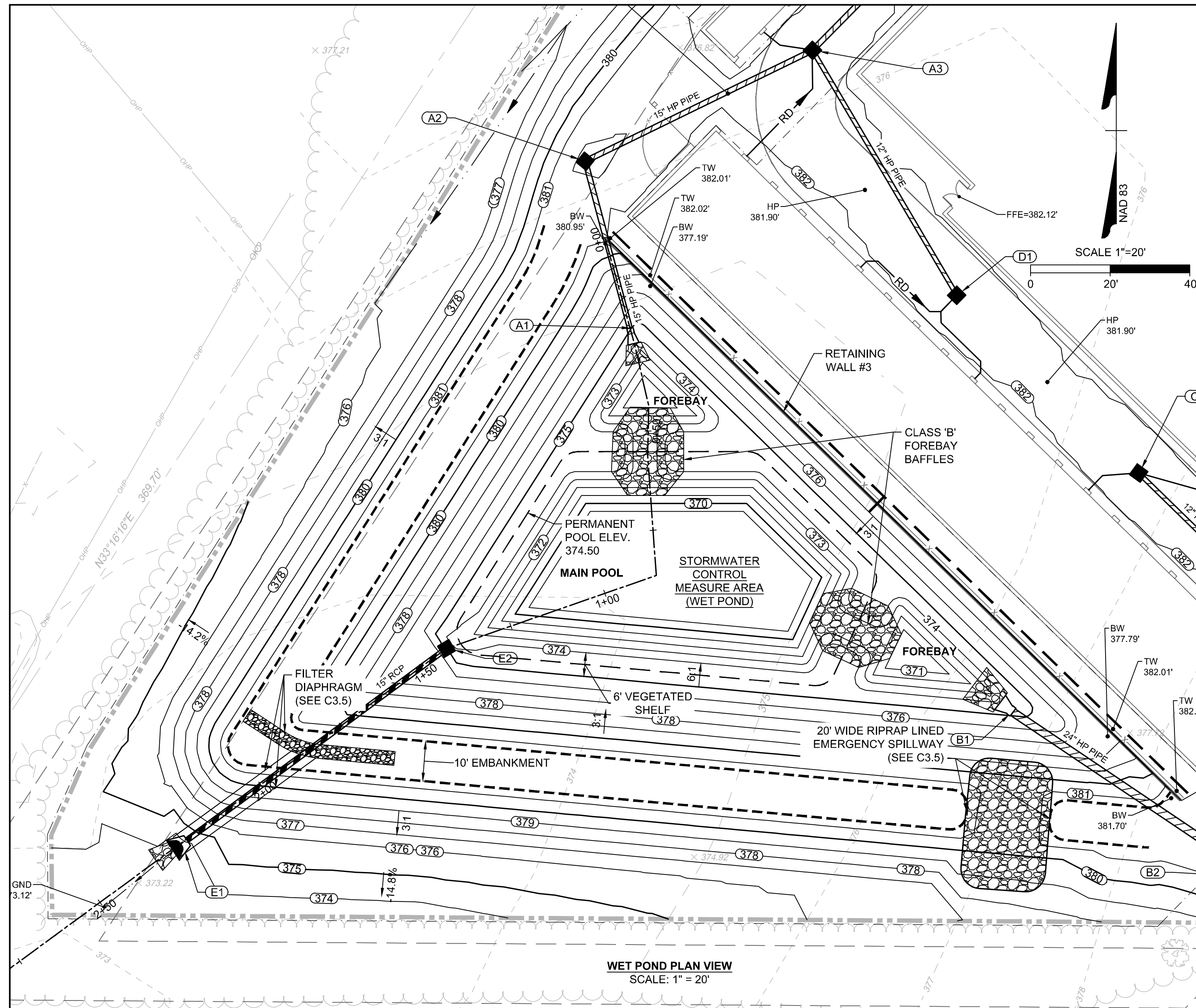
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

STORM SEWER PROFILES

JOB NO. 54832
 SHEET NO. C3.3

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AS-BUILT SURVEY REQUIREMENTS

NOTE: CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING WET DETENTION POND AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:

1. TOPOGRAPHIC SURVEY OF THE WET POND AND EMBANKMENT
2. OUTLET STRUCTURE TOPS AND INVERTS
3. OUTLET STRUCTURE DIMENSIONS
4. ORIFICE DIAMETERS
5. BARREL PIPE SIZES AND INVERTS
6. EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.

OUTLET STRUCTURE NOTES

1. CAST-IN-PLACE CONCRETE RISER IS REQUIRED WITHOUT EXCEPTION.
2. CLASS "A" (3,000 PSI) CONCRETE TO BE USED.
6. ALL MORTAR JOINTS ARE 1/2" ± 1/8".
7. GROUT SHALL BE NON-SHRINK (ASTM-C1107)
8. ALL STRUCTURES OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD 840.66.
9. LOCATE MANHOLE OVER STEPS.

WET DETENTION BASIN MAINTENANCE SCHEDULE			
DESCRIPTION	METHOD	FREQUENCY	SEASON
EMBANKMENT			
INSPECT AND REPAIR EROSION / ANIMAL NESTINGS	VISUAL	ONCE PER YEAR	ALL
INSPECT AND RESEED GRASS COVERAGE	VISUAL	WHENEVER NEEDED	ALL
OUTLET STRUCTURE			
DEBRIS / OBSTRUCTIONS	BY HAND	WHENEVER NEEDED	ALL
OPERATE POND DRAIN VALVE	BY HAND	ONCE PER YEAR	ALL
EROSION AT OUTLET DISCHARGE	VISUAL	ONCE PER YEAR	ALL
FOREBAY / MAIN POOL			
SEDIMENT / DEBRIS	BY HAND	ONCE PER YEAR	ALL
REMOVE TRASH	BY HAND	WHENEVER NEEDED	ALL

DAM CORE, CUTOFF TRENCH, AND EMBANKMENT FILL NOTES:

1. DAM CORE AND CUTOFF TRENCH FILL MATERIAL SHALL CLASSIFY AS ML, MH, CL OR CH PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE BORROW PITS, OR APPROVED OFF-SITE BORROW SOURCES.
2. EMBANKMENT FILL SOIL MATERIAL SHALL CLASSIFY SM, SC, ML OR CL PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE EXCAVATIONS, ON-SITE BORROW PITS OR APPROVED OFF-SITE BORROW SOURCES.
3. UNSUITABLE EMBANKMENT FILL IS CLASSIFIED AS GW, GM, GP, GC, SW, SP, OH, OL PER USCS

CLAY LINER NOTES

1. THE CONTRACTOR WILL NEED TO INSTALL A CLAY LINER A MINIMUM OF 1-FOOT BELOW THE LOWEST GRADE. THE CLAY LINER SHALL BE AT LEAST 12" THICK AND MEET THE FOLLOWING SPECIFICATIONS:
 - 1.1. UNIFIED SOIL CLASSIFICATION SYSTEM DESIGNATION OF CL, CH, ML
 - 1.2. MINIMUM PLASTICITY INDEX OF 12
 - 1.3. MINIMUM OF 2 TESTS OF EACH ABOVE PARAMETER SHALL BE COMPLETED BY THE CONTRACTOR ON THE LINER MATERIAL AND PRESENTED TO THE ON-SITE GEOTECHNICAL ENGINEER FOR APPROVAL. SHOULD THESE TESTS NOT MEET THE ABOVE REQUIREMENTS, THE ON-SITE GEOTECHNICAL ENGINEER MAY PROVIDE PERMEABILITY TESTING DEMONSTRATING AN INFILTRATION RATE OF NO MORE THAN 0.01 IN/HR
 - 1.4. COMPACTION TO A MINIMUM OF 95% PER ASTM D698 AND WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT (1 COMPACTION DENSITY TEST PER 2500 SQ. FT.)

IF IT IS DETERMINED BY THE ON-SITE GEOTECHNICAL ENGINEER THAT A LINER IS NOT NEEDED, THEN A LETTER TO THE DESIGN ENGINEER CERTIFYING THE INFILTRATION RATE SHALL BE PROVIDED, WHICH WILL BE USED DURING THE AS-BUILT CERTIFICATION PROCESS.

2. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES AND INCLUDE THE CLAY LINER.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WAKE COUNTY (TOWN OF ROLESVILLE), NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. SEE GRADING PLAN FOR MORE INFORMATION ON ENTIRE SITE GRADING.

DAM EMBANKMENT AND SOIL COMPACTION SPECIFICATIONS

1. CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT /KEY TRENCH SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2'-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
2. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
3. FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
4. ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
5. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
6. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE, SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
7. TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE

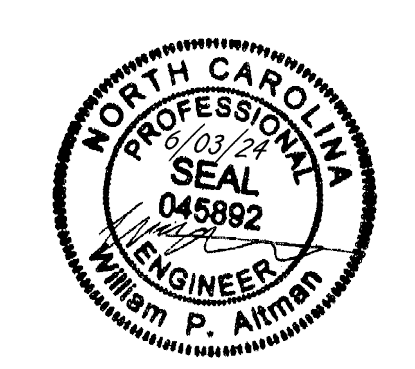
GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER.

8. FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES.
9. EARTHWORK COMPACTION WITHIN 3-FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS.
10. COMPACTION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.
11. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
12. TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND MULCHED OR HYDROSEEDED.

TESTING, OBSERVATION, AND CERTIFICATION

1. TESTS OF THE DEGREE (%) OF COMPACTION OF THE PLACED FILL IN THE DAM /KEY TRENCH SHALL BE PERFORMED AS A PART OF THE PERMITTEE'S NORMAL QUALITY CONTROL PROGRAM FOR THE CONSTRUCTION OF THE DAM. TESTS SHALL BE CONDUCTED CONCURRENT WITH THE INSTALLATION OF THE COMPACTED FILL AND THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF THE DAM SO THAT THE TESTING CAN BE COMPLETED. SHOULD THE RESULTS OF THE TESTS INDICATE THAT THE SPECIFIED DEGREE OF COMPACTION HAS NOT BEEN OBTAINED, THE PORTIONS OF THE DAM REPRESENTED BY SUCH TESTS SHALL BE REWORKED OR REBUILT. ALL PORTIONS OF THE DAM SHALL ACHIEVE THE SPECIFIED MINIMUM DEGREE OF COMPACTION.

CONSTRUCTION OF THE SCM SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER, WHO IS REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA. THE GEOTECHNICAL ENGINEER MUST HAVE EXPERIENCE IN THE DESIGN AND CONSTRUCTION MONITORING OF SCM'S OF THE SIZE AND SCOPE COVERED BY THESE STANDARDS AND GUIDELINES.



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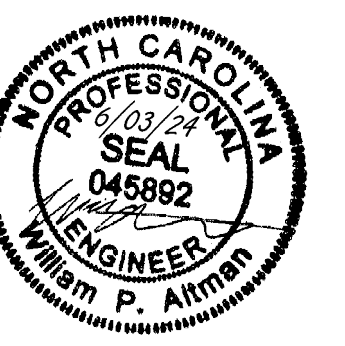
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08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSED NCDOT REVIEW COMMENTS
05/01/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SCM PLAN & PROFILE

JOB NO.	54832
SHEET NO.	C3.4

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DATE: 04/05/2023

DRAWN BY:
L. BARNES

DESIGNED BY:
W. ALTMAN

CHECKED BY:
W. ALTMAN

SCALE:
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TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

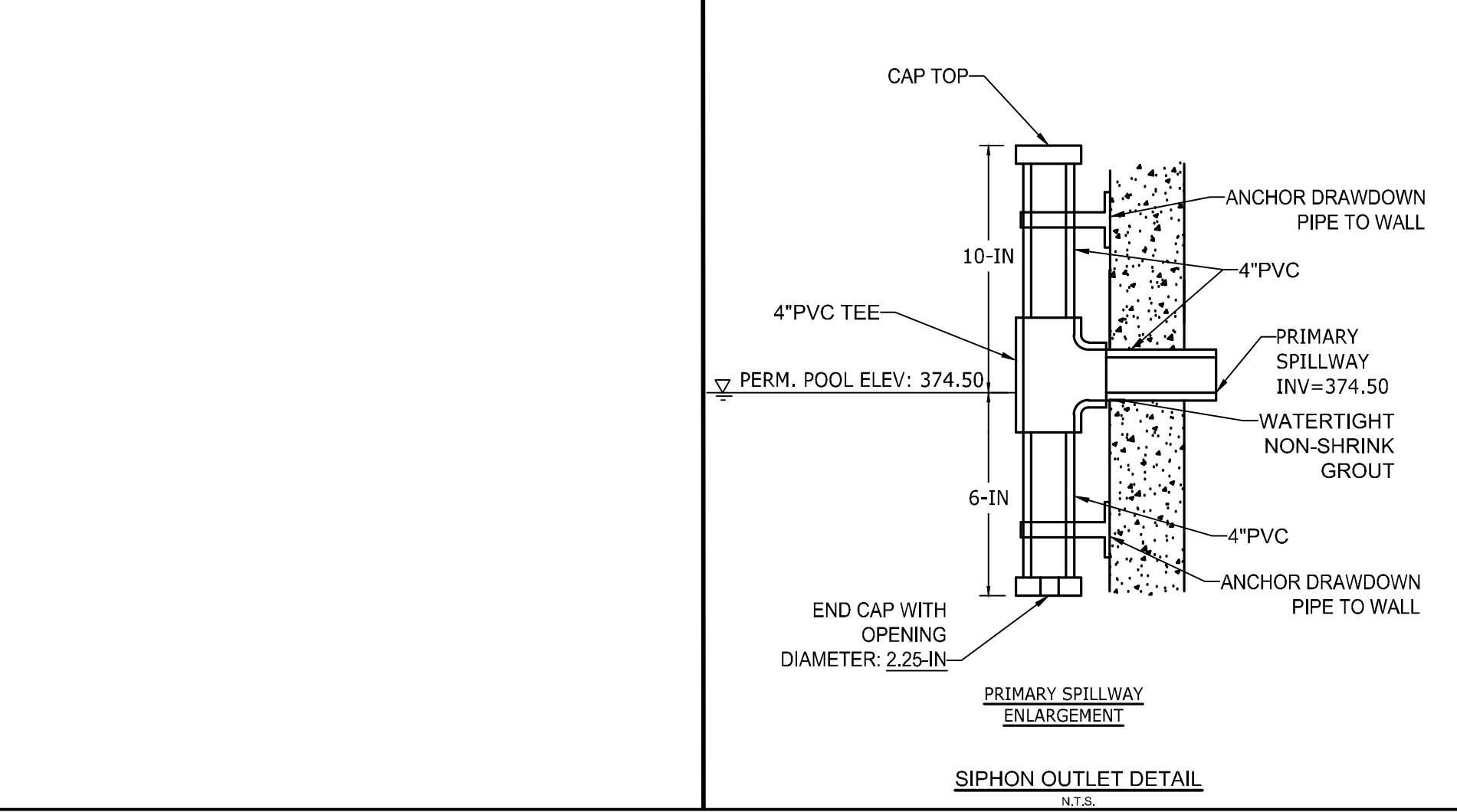
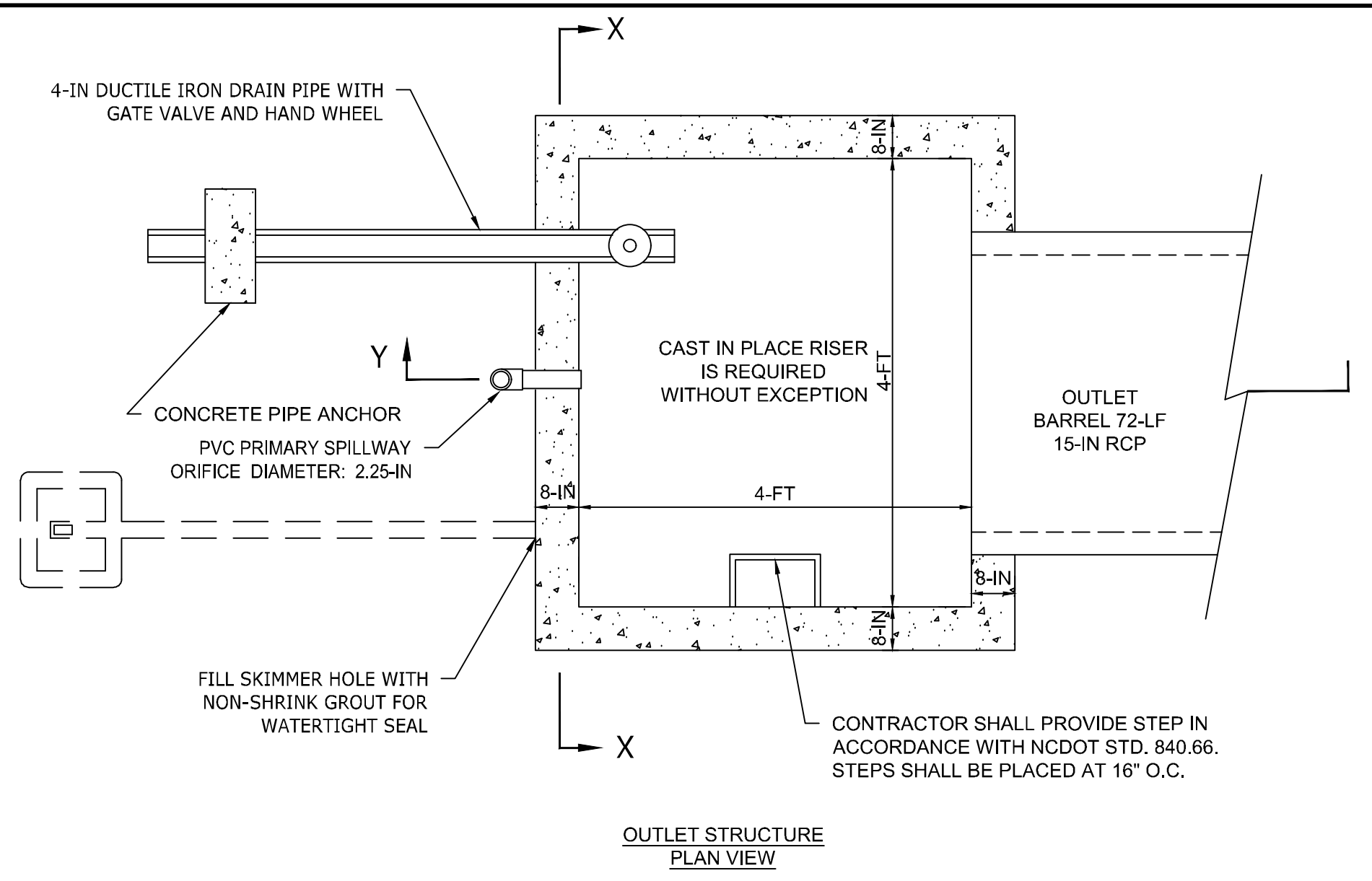
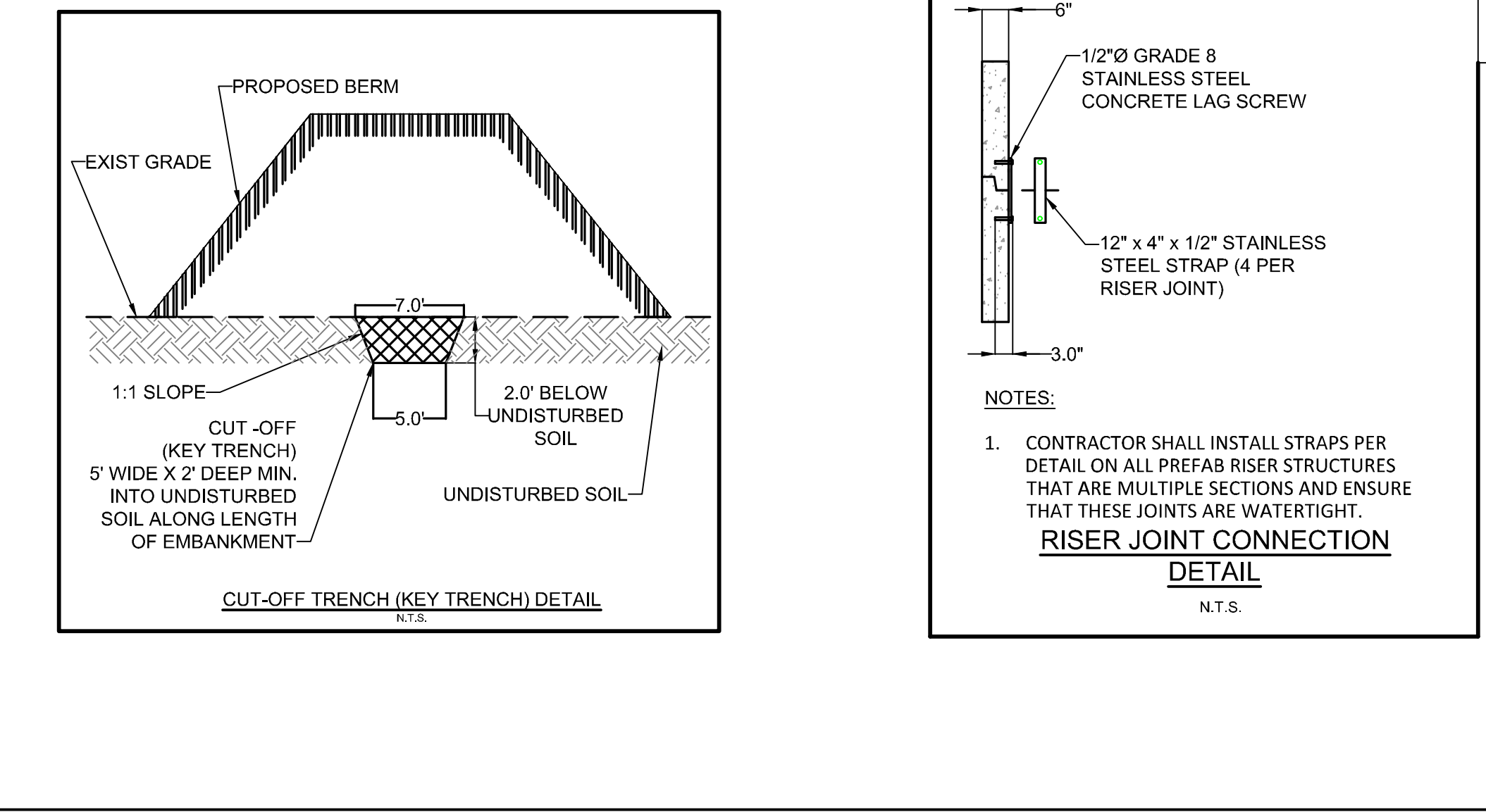
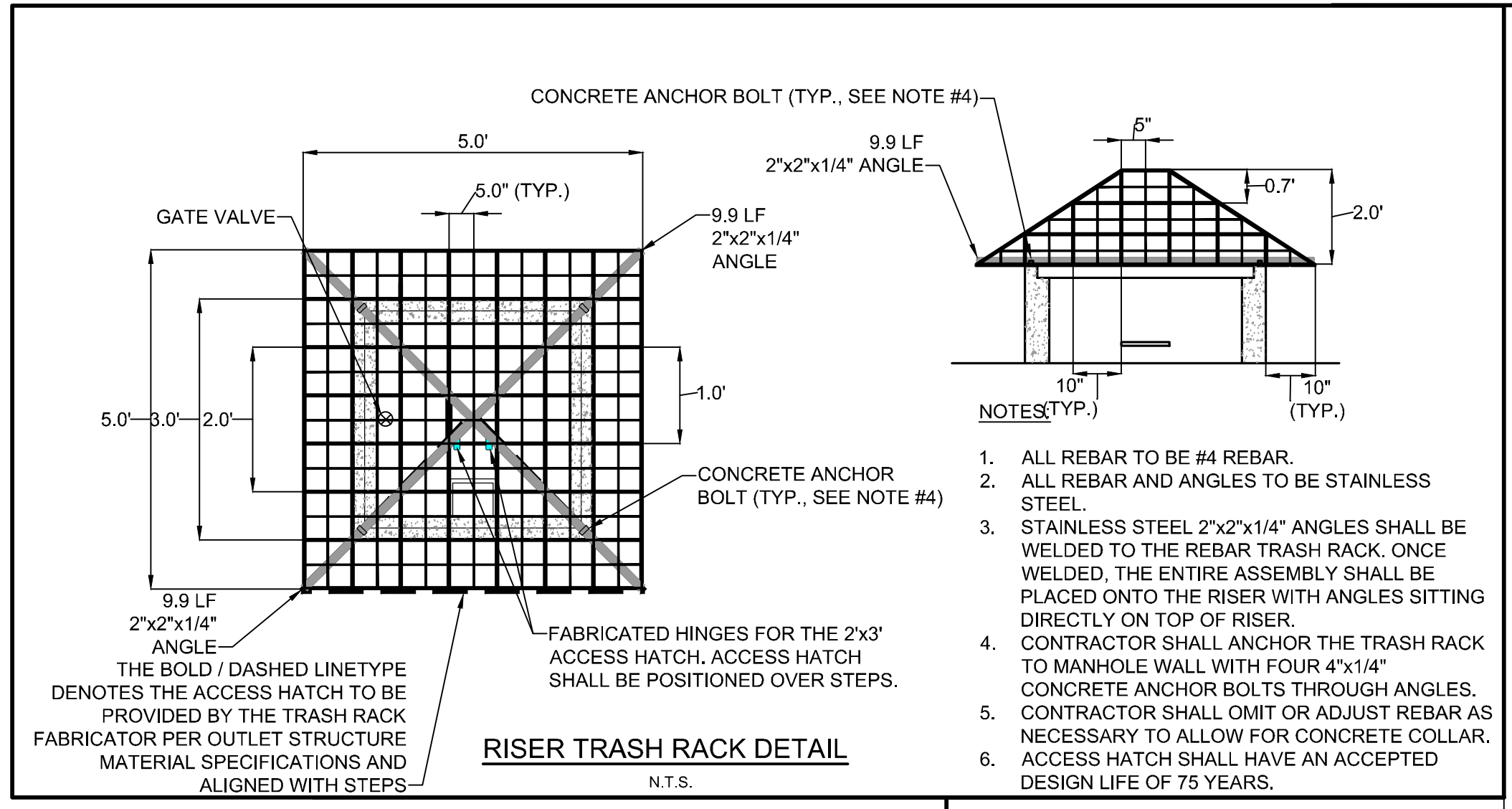
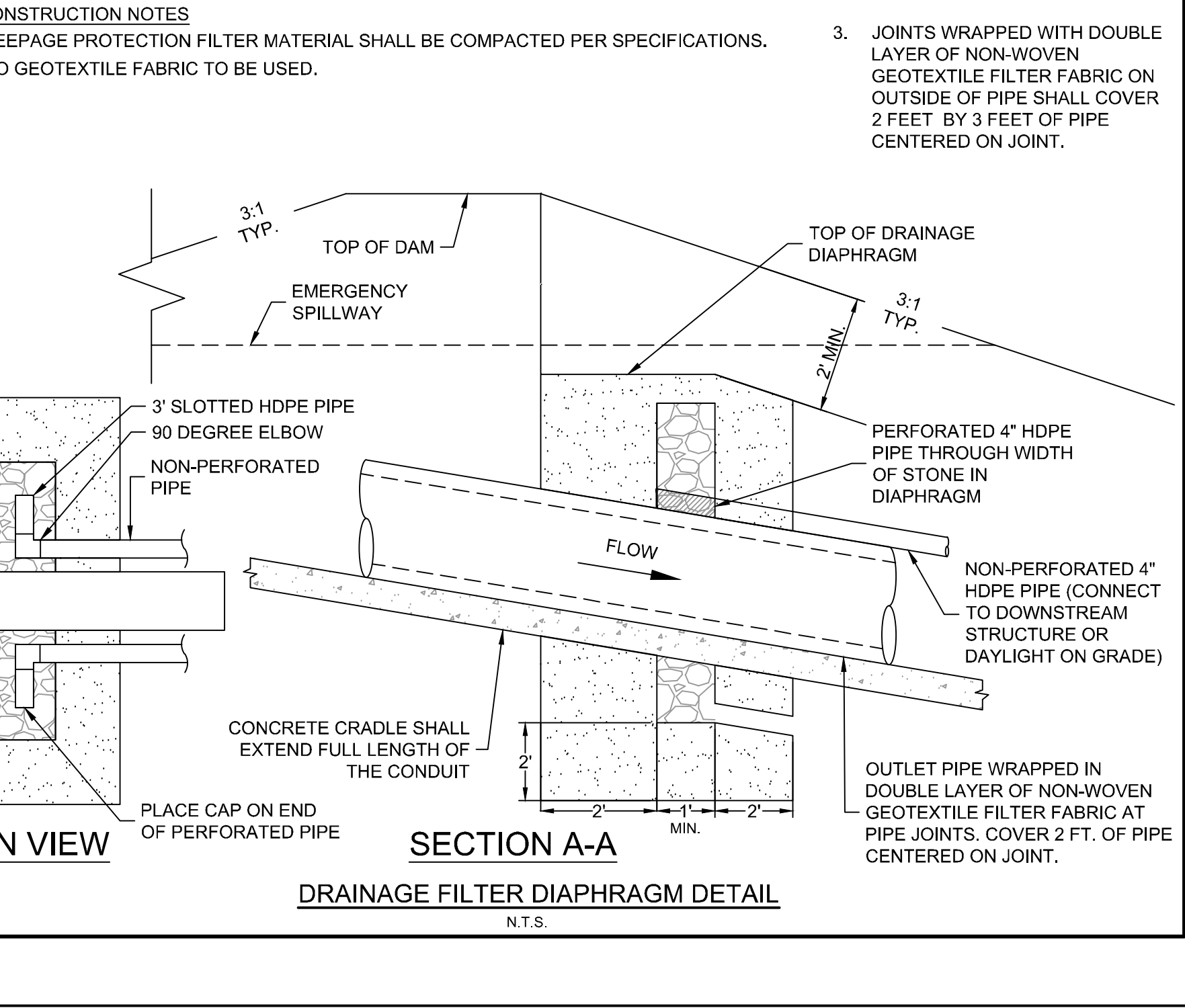
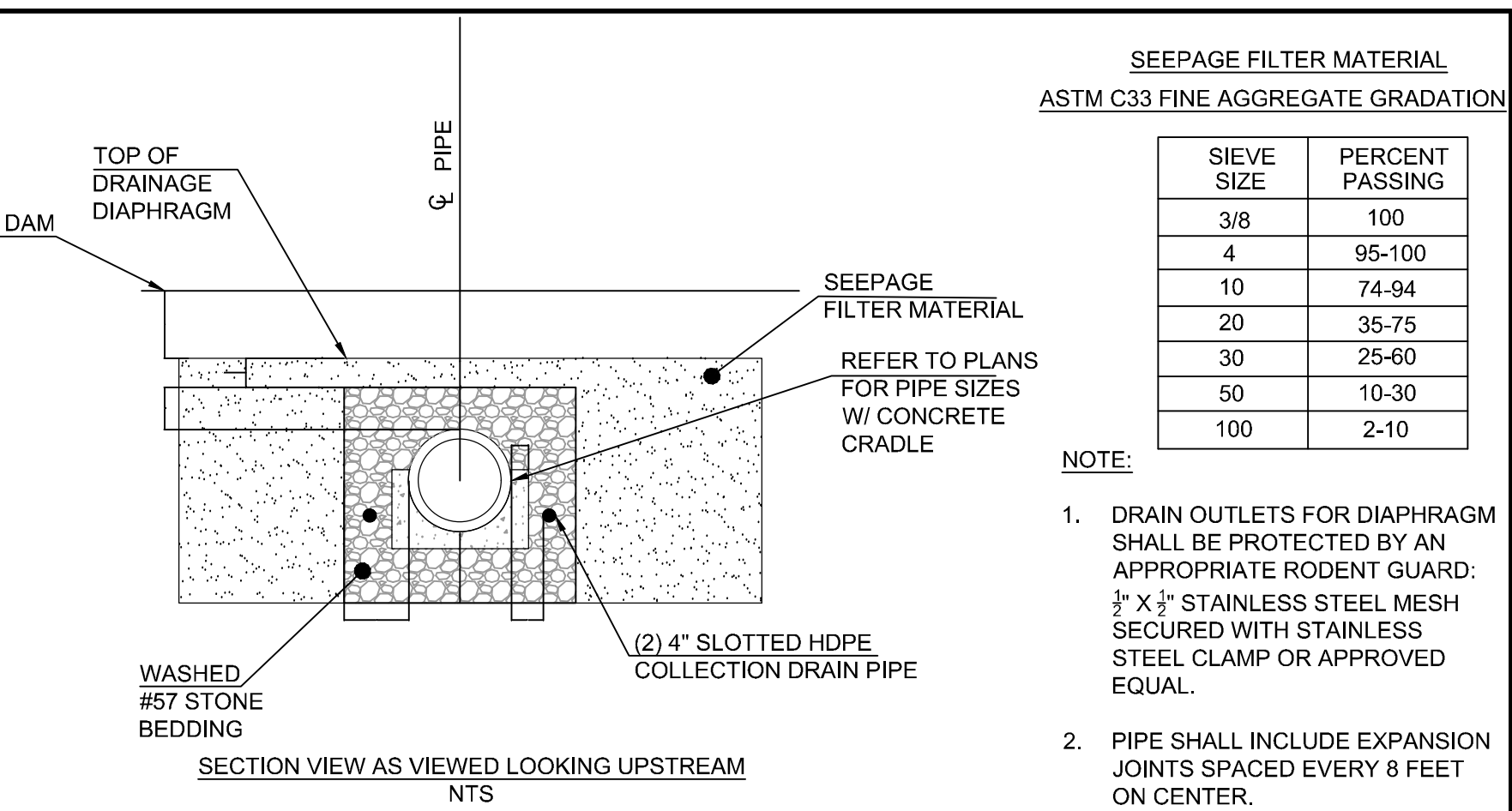
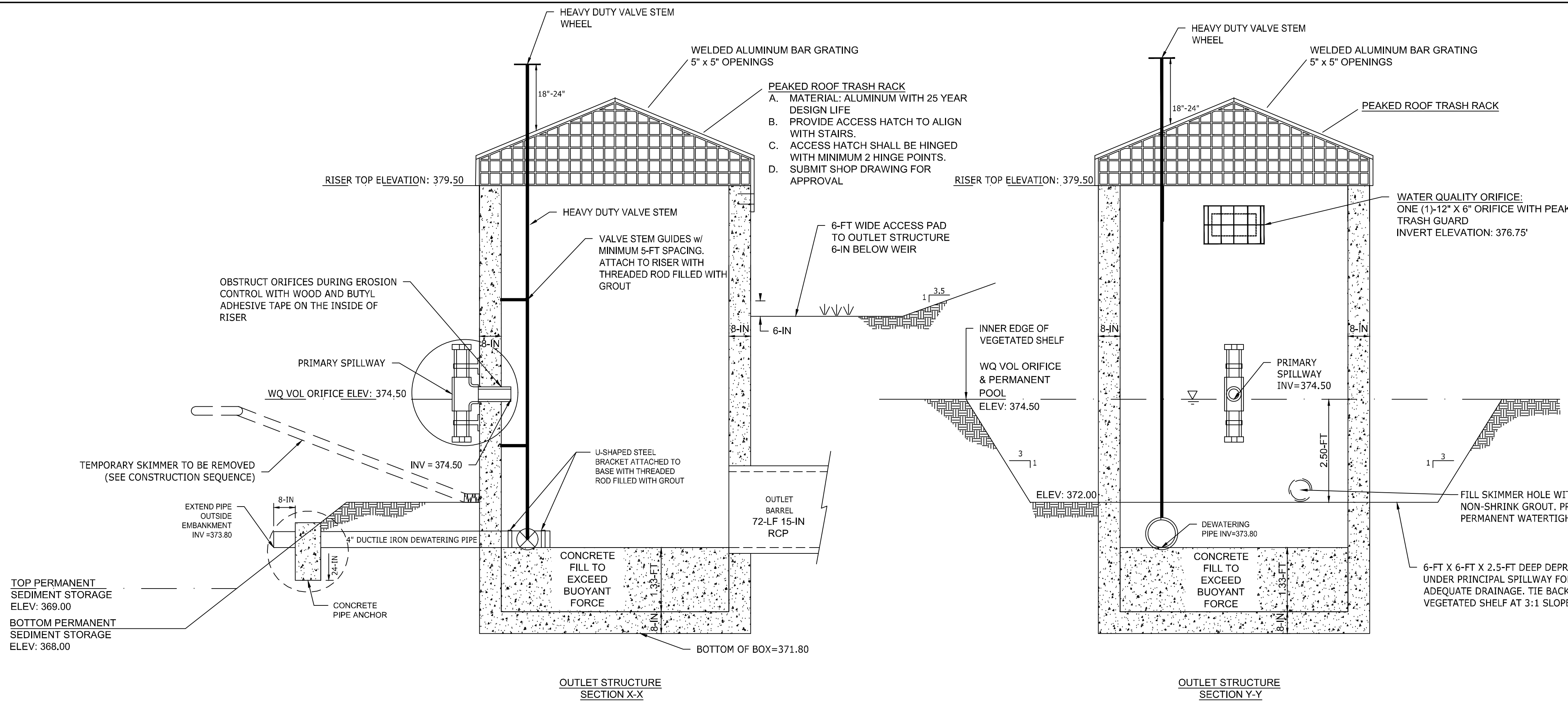
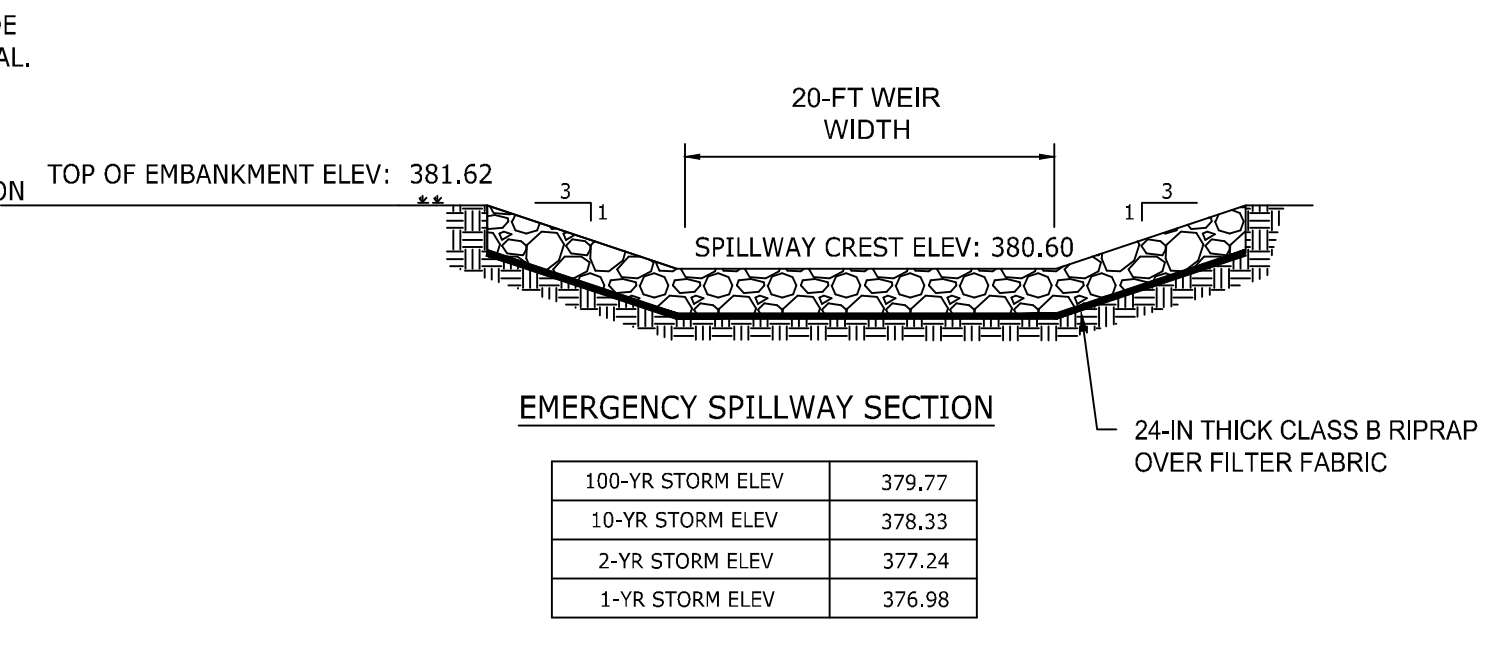
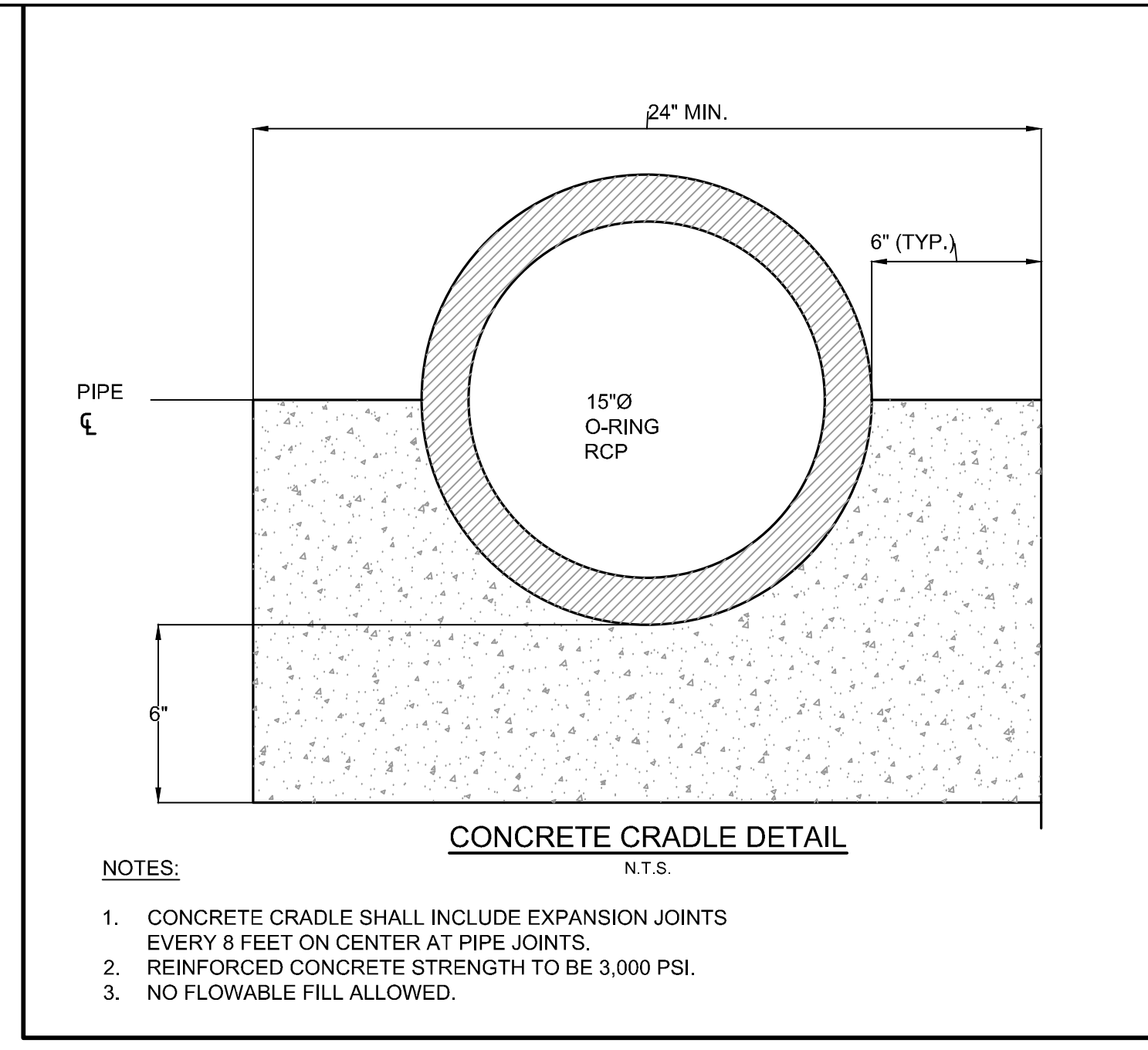
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SCM NOTES & DETAILS

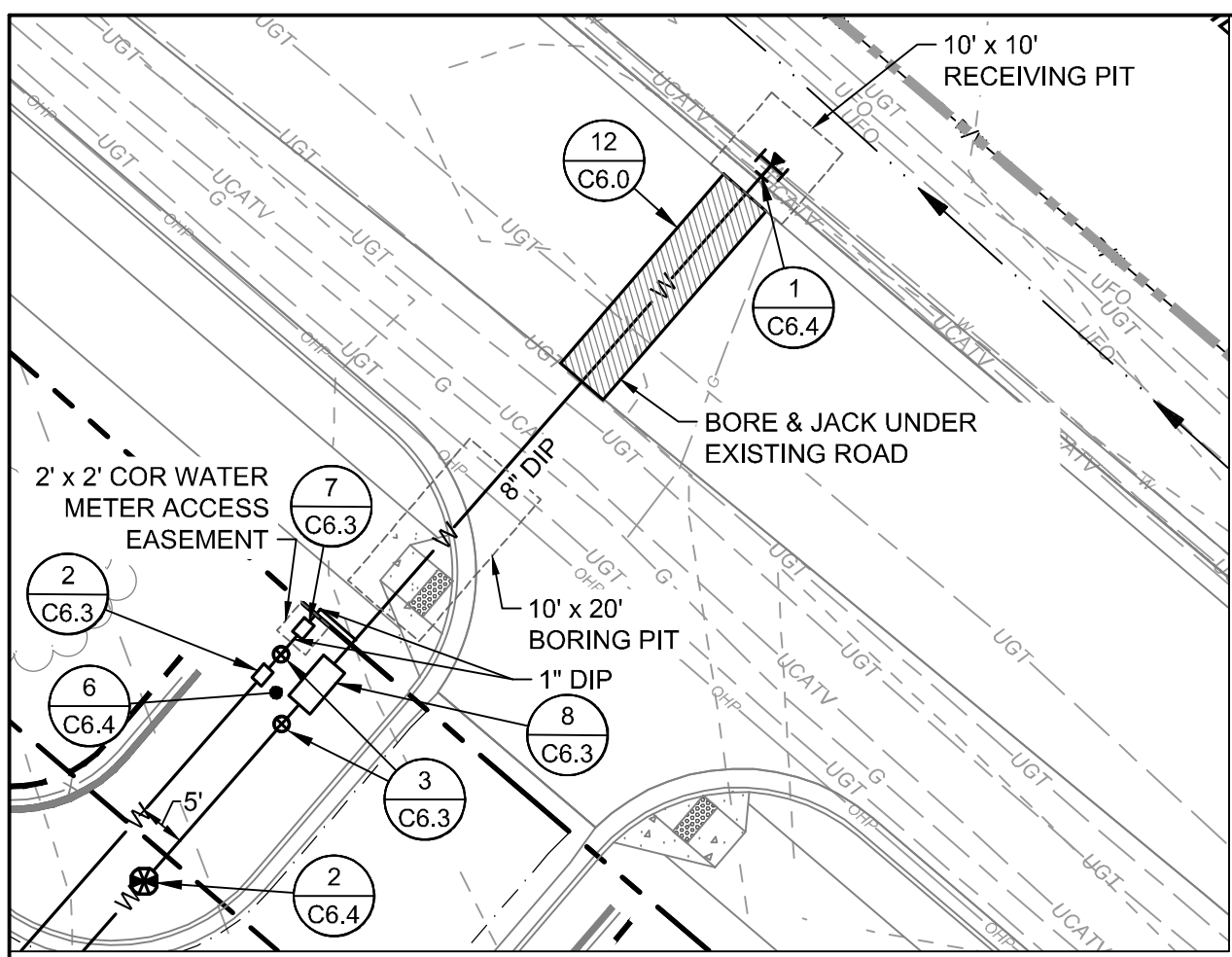
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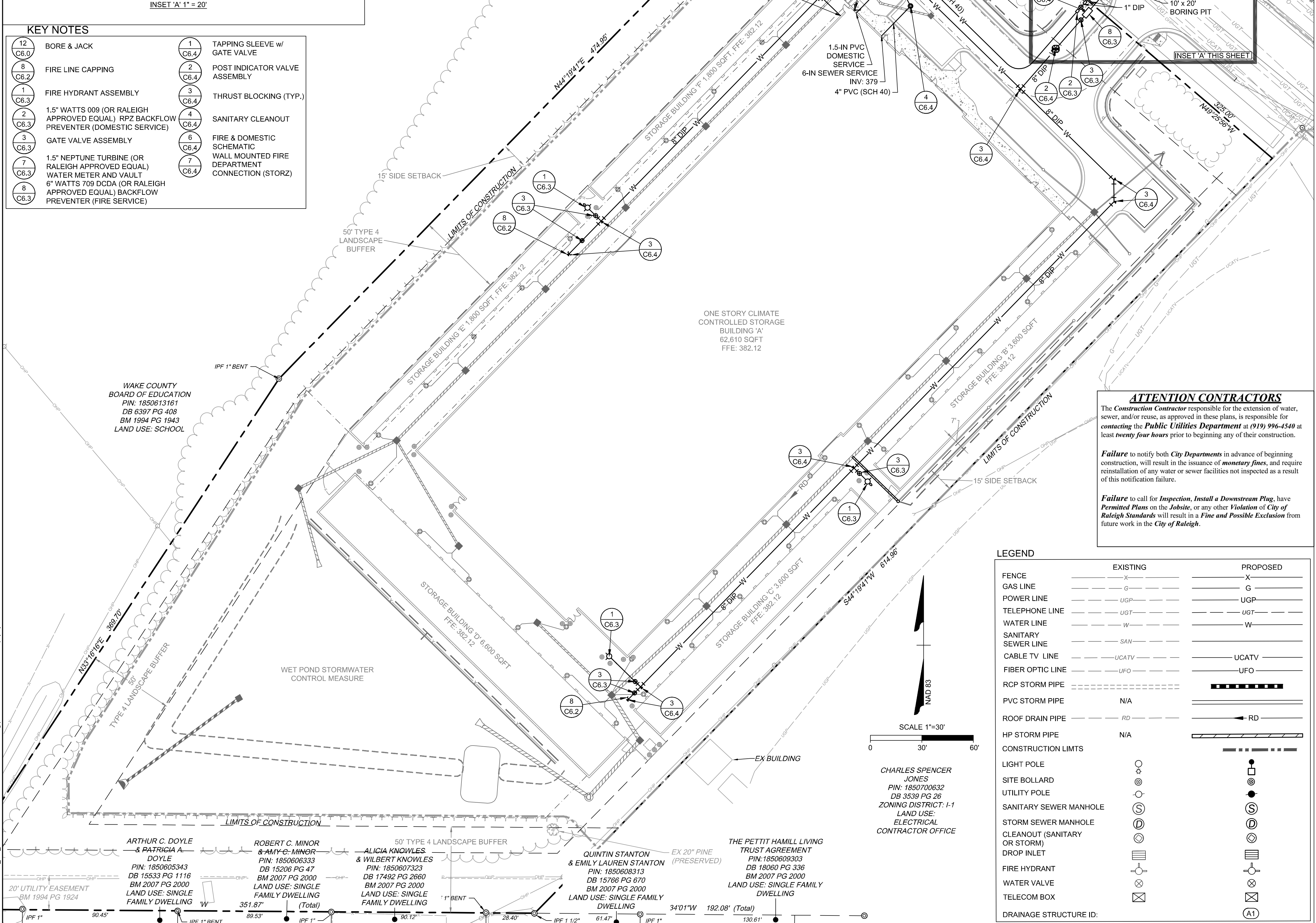


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KEY NOTES

12 C6.0	BORE & JACK	1 C6.4	TAPPING SLEEVE w/ GATE VALVE
8 C6.2	FIRE LINE CAPPING	2 C6.4	POST INDICATOR VALVE ASSEMBLY
1 C6.3	FIRE HYDRANT ASSEMBLY	3 C6.4	THRUST BLOCKING (TYP.)
2 C6.3	1.5" WATTS 009 (OR RALEIGH APPROVED EQUAL) RPZ BACKFLOW PREVENTER (DOMESTIC SERVICE)	4 C6.4	SANITARY CLEANOUT
3 C6.3	GATE VALVE ASSEMBLY	6 C6.4	FIRE & DOMESTIC SCHEMATIC CONNECTION (STORZ)
7 C6.3	1.5" NEPTUNE TURBINE (OR RALEIGH APPROVED EQUAL) WATER METER AND VAULT	7 C6.4	
6 C6.3	6" WATTS 709 DCCA (OR RALEIGH APPROVED EQUAL) BACKFLOW PREVENTER (FIRE SERVICE)		



LEGEND

	EXISTING	PROPOSED
FENCE	-X-	-X-
GAS LINE	-G-	-G-
POWER LINE	-UGP-	-UGP-
TELEPHONE LINE	-UGT-	-UGT-
WATER LINE	-W-	-W-
SANITARY SEWER LINE	-SAW-	-SAW-
CABLE TV LINE	-UCATV-	-UCATV-
FIBER OPTIC LINE	-UFO-	-UFO-
RCP STORM PIPE	-RCP-	-RCP-
PVC STORM PIPE	-N/A-	-RCP-
ROOF DRAIN PIPE	-RD-	-RD-
HP STORM PIPE	-N/A-	-RCP-
CONSTRUCTION LIMITS	-DASHED-	-DASHED-
LIGHT POLE	○	○
SITE BOLLARD	⊙	⊙
UTILITY POLE	⊙	⊙
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE	⊙	⊙
CLEANOUT (SANITARY OR STORM)	⊙	⊙
DROP INLET	⊙	⊙
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
TELECOM BOX	⊙	⊙
DRAINAGE STRUCTURE ID:	⊙	⊙

CITY OF RALEIGH UTILITY NOTES

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- INSTALL 1.5" PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE
- INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM
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City of Raleigh
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CITY OF RALEIGH DEVELOPMENT APPROVAL _____
RALEIGH WATER REVIEW OFFICER _____

TIMMONS GROUP

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SITE UTILITY PLAN

PROFESSIONAL ENGINEER

SEAL 04582

WILLIAM P. ALTMAN

THIS DRAWING PREPARED AT THE RALEIGH OFFICE
5410 Trinity Road, Suite 102 | Raleigh, NC 27607
TEL 919.866.9511 FAX 919.533.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE
ADDRESSSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS	08/07/2023
ADDRESSSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS	11/07/2023
ADDRESSSED NCDOT REVIEW COMMENTS	03/21/2024
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ADDRESSSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS	06/03/2024

DATE: 04/05/2023

DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

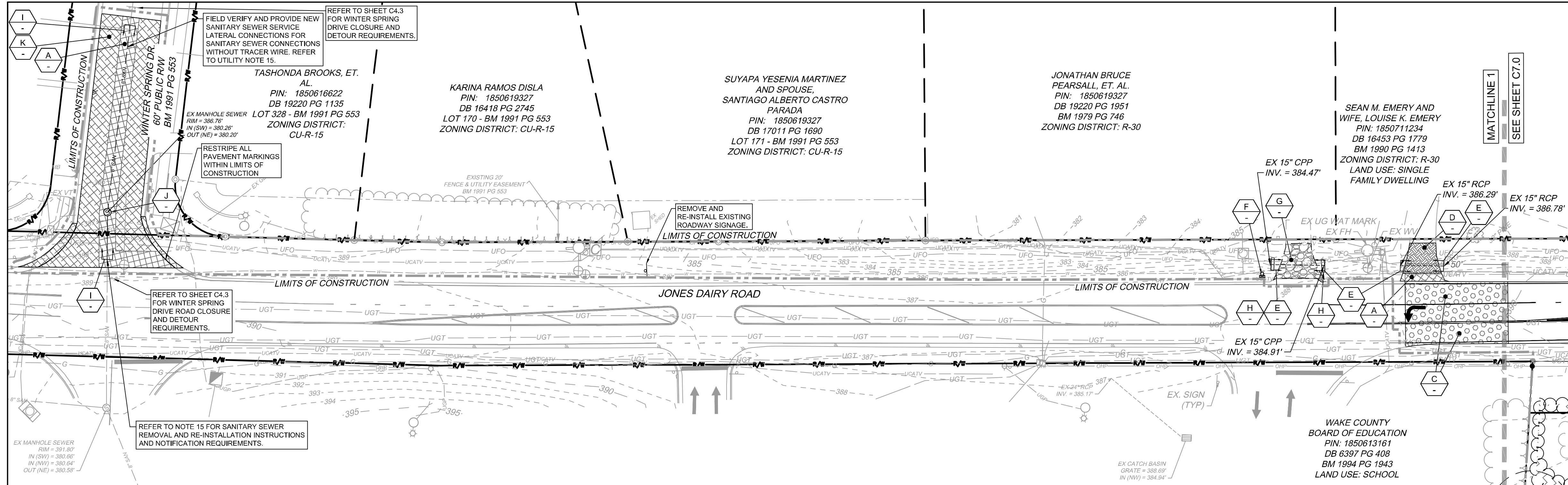
CHECKED BY: W. ALTMAN

SCALE: AS SHOWN

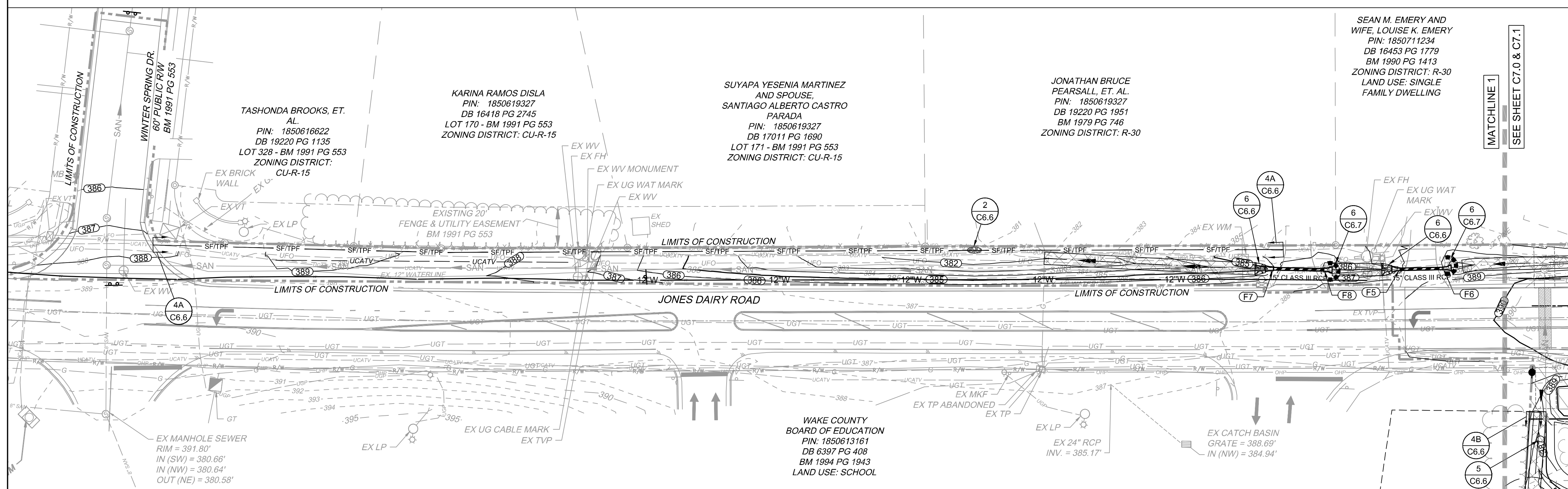
JOB NO. 54832

SHEET NO. C4.0

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PLAN VIEW 1 - EX CONDITIONS & DEMOLITION

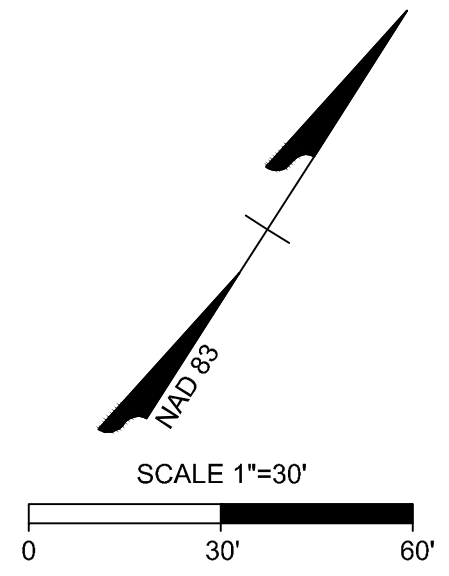


PLAN VIEW 2 - GRADING & EROSION CONTROL PLAN

PIPE #	DIA	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
F6-F5	15"	386.50	386.00	2.40%	20.83 LF	15" CLASS III RCP
F8-F7	15"	385.25	384.75	2.04%	24.54 LF	15" CLASS III RCP

KEY NOTES	SYMBOL
REMOVE ASPHALT PAVEMENT AND STONE BASE	[Symbol]
50-FT MILL TAPER FROM 0" - 1.5" (SEE C7.0)	[Symbol]
SAW CUT AND REMOVE CONCRETE AT NEAREST JOINT.	[Symbol]
REMOVE AND REPLACE EXISTING CULVERT	[Symbol]
REMOVE & REINSTALL MAIL BOX AFTER UTILITY INSTALLATION	[Symbol]
REMOVE EXISTING GRAVEL	[Symbol]
REMOVE EXISTING HEADWALL	[Symbol]
REMOVE SANITARY SEWER PIPE	[Symbol]
REMOVE SANITARY SEWER STRUCTURE	[Symbol]
MILL AND REMOVE 1.5" OF ASPHALT	[Symbol]

EROSION CONTROL KEYNOTES	SYMBOL
REINFORCED SILT FENCE OUTLET	[Symbol]
SILT FENCE (COMBINATION FENCE; SEE TREE FENCE DETAIL)	[Symbol]
TREE PROTECTION FENCE	[Symbol]
TEMPORARY DIVERSION DITCH	[Symbol]
RIPRAP OUTLET PROTECTION	[Symbol]
PIPE INLET PROTECTION	[Symbol]

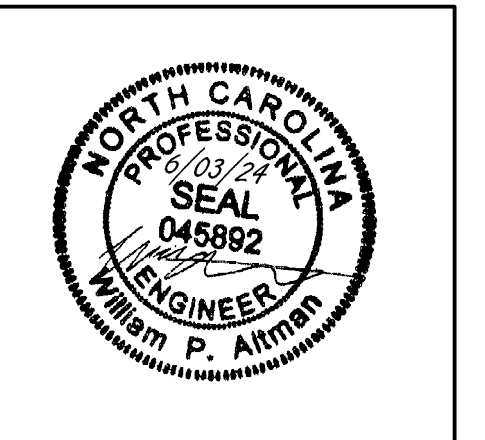


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 RALEIGH WATER REVIEW OFFICER _____



THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
 5410 Trinity Road, Suite 102 | Raleigh, NC 27607
 TEL 919.866.9511 FAX 919.533.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

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11/07/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
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DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
OFF-SITE UTILITY PLAN

JOB NO. 54832
 SHEET NO. C4.1

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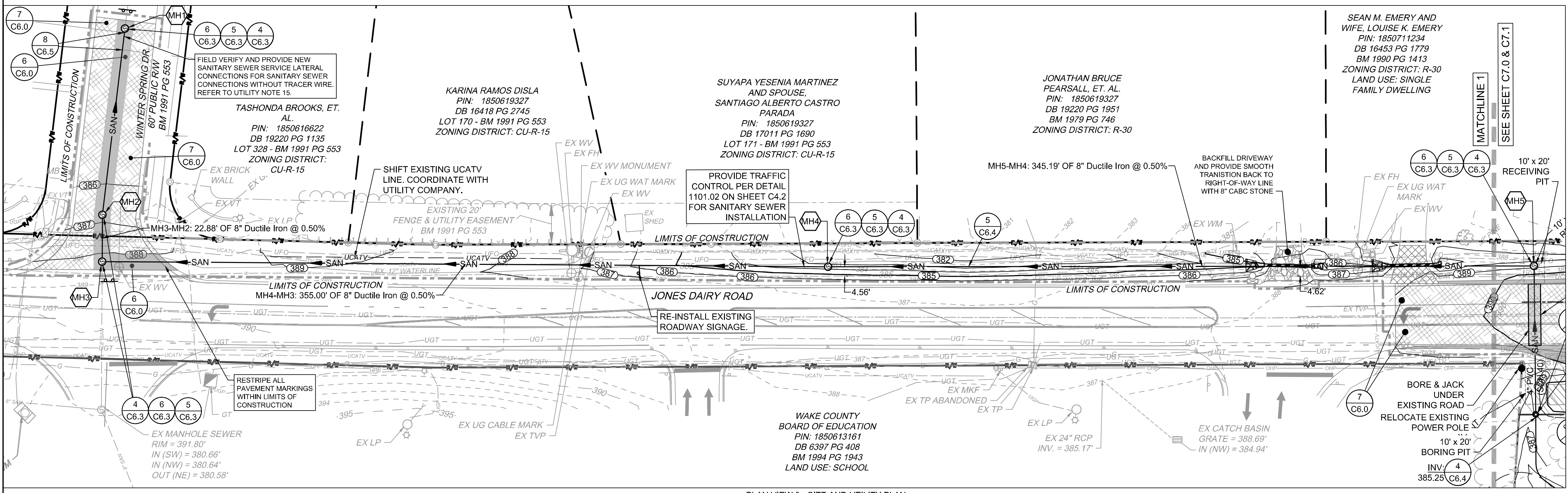
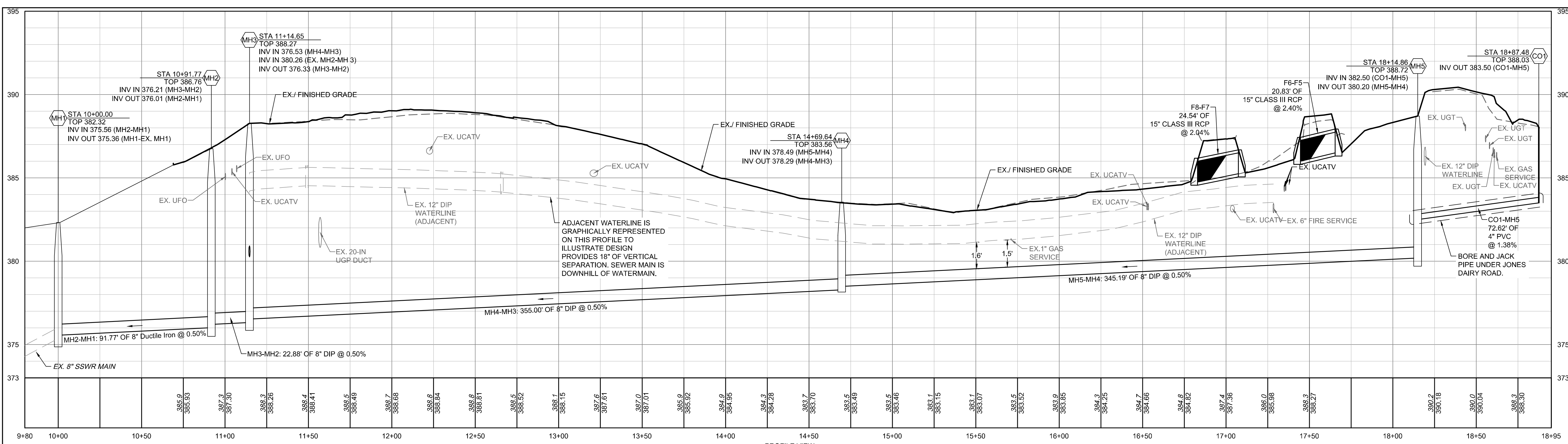
NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OFF-SITE UTILITY PLAN & PROFILE

JOB NO.
54832
 SHEET NO.
C4.2



SANITARY SEWER SCHEDULE

MH1	TOP = 382.32 INV IN = 375.56 (SW) INV OUT = 375.36 (NE)	MH4	TOP = 383.56 INV IN = 378.49 (SE) INV OUT = 378.29 (NW)
MH2	TOP = 386.76 INV IN = 376.21 (SW) INV OUT = 376.01 (NE)	MH5	TOP = 388.72 INV IN = 382.50 (SW) INV OUT = 380.20 (NW)
MH3	TOP = 388.27 INV IN = 376.53 (SE) INV IN = 380.26 (NE) INV OUT = 376.33 (NE)		

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE	BEARING
MH3-MH2	8"	22.88 LF	0.50%	N41° 04' 56"E
MH5-MH4	8"	345.19 LF	0.50%	N49° 16' 50"W
MH4-MH3	8"	355.00 LF	0.50%	N48° 48' 46"W
CO1-MH5	4"	72.62 LF	1.38%	N40° 05' 55"E
MH2-MH1	8"	91.77 LF	0.50%	N47° 42' 17"E

- KEYNOTES**
- 6 NCDOT ASPHALT (FULL DEPTH)
 - 7 NCDOT OVERLAY
 - 4 SANITARY SEWER MANHOLE
 - 5 SANITARY SEWER MANHOLE RING & COVER
 - 6 SEWER MANHOLE STEPS
 - 4 SANITARY CLEANOUT
 - 6 UTILITY TRENCHING AND BACKFILL
 - 8 SANITARY SEWER LATERAL CONNECTION

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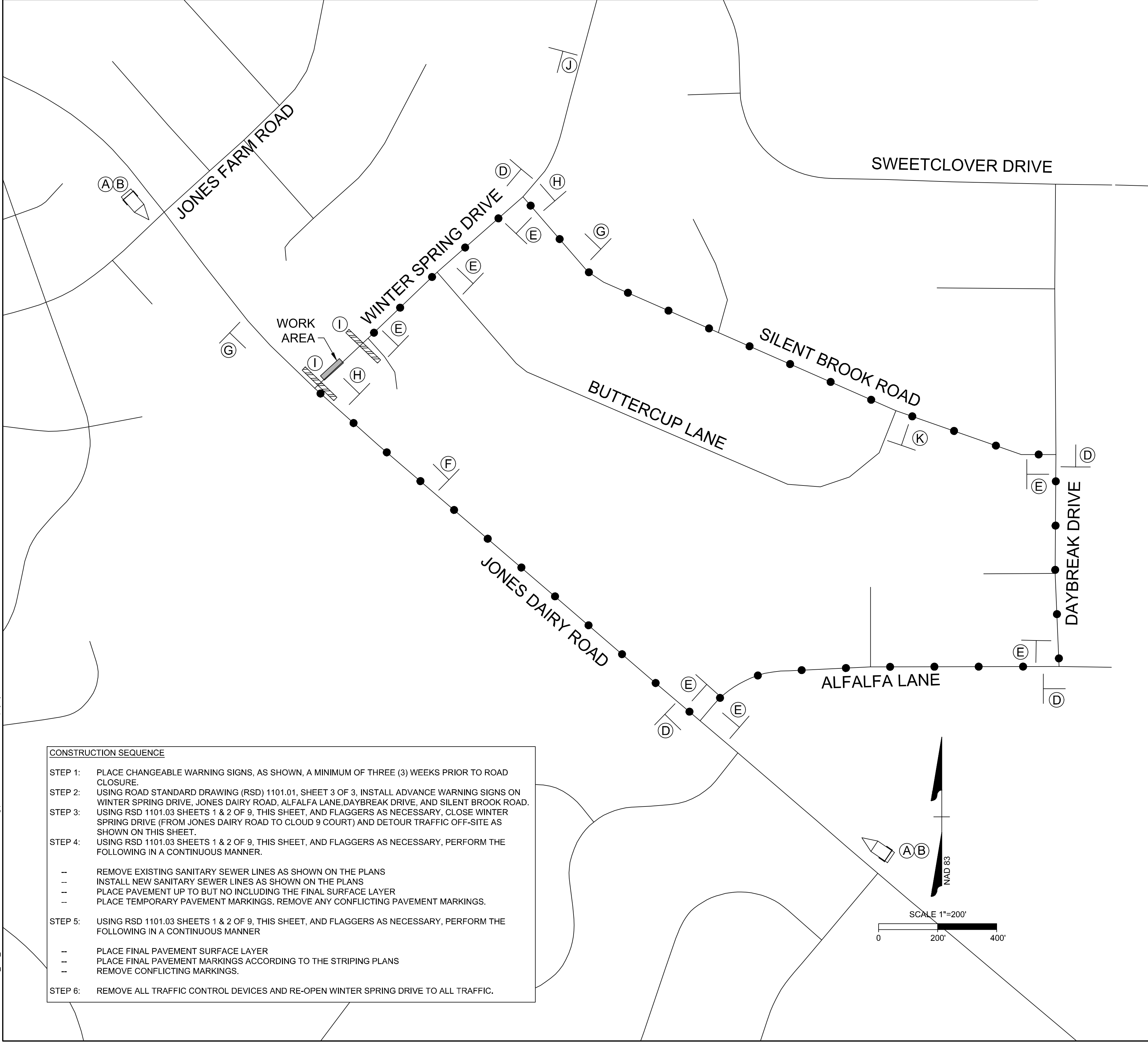
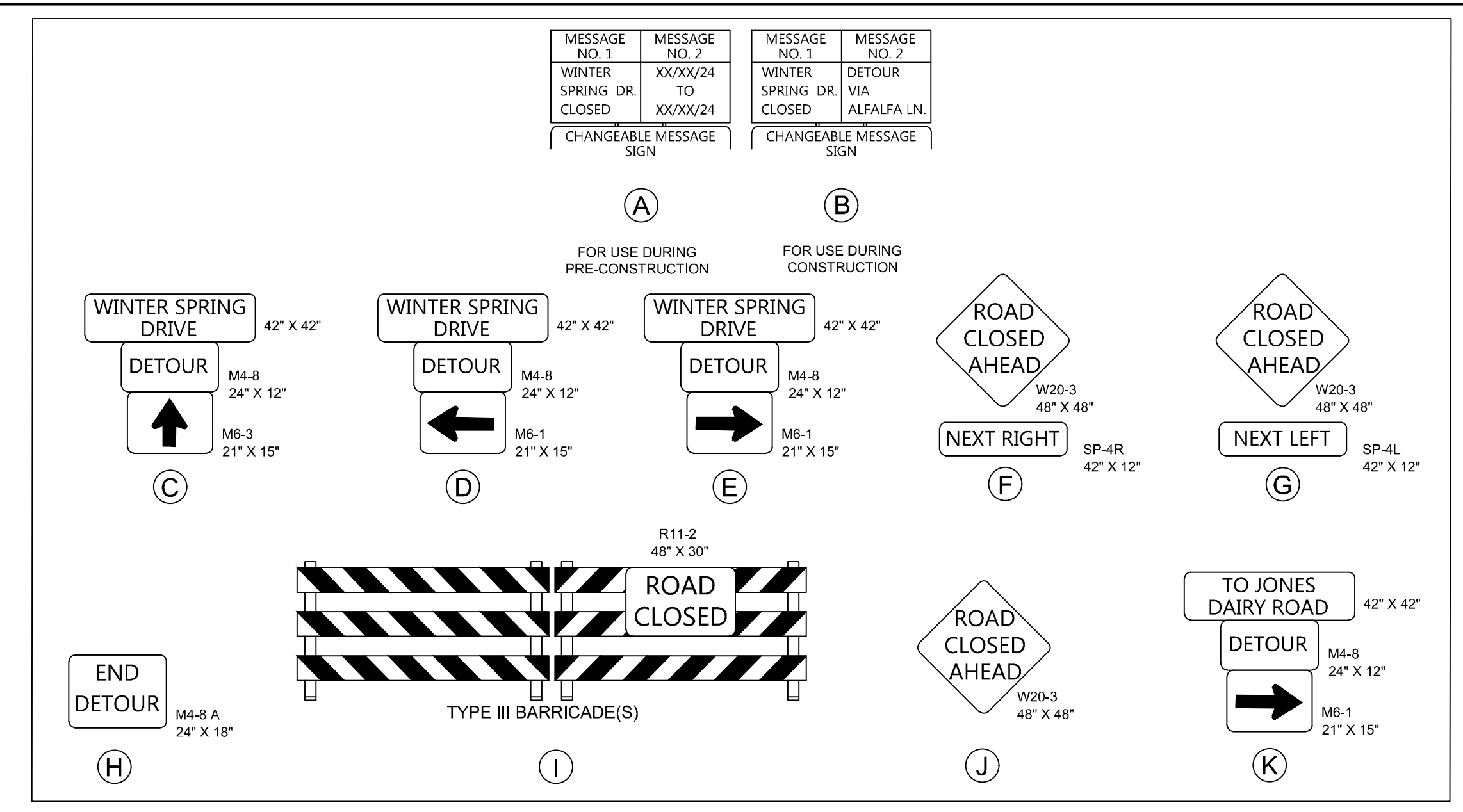
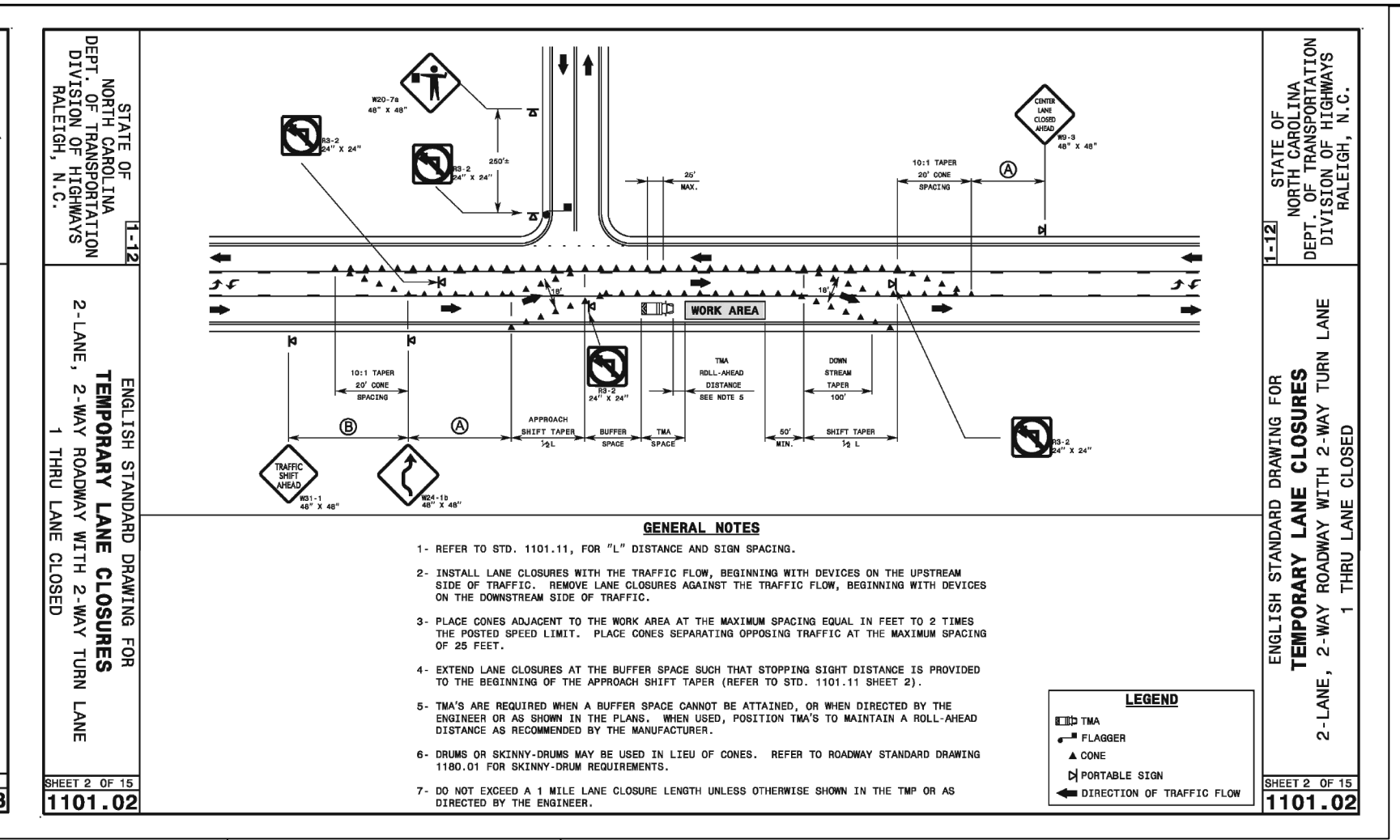
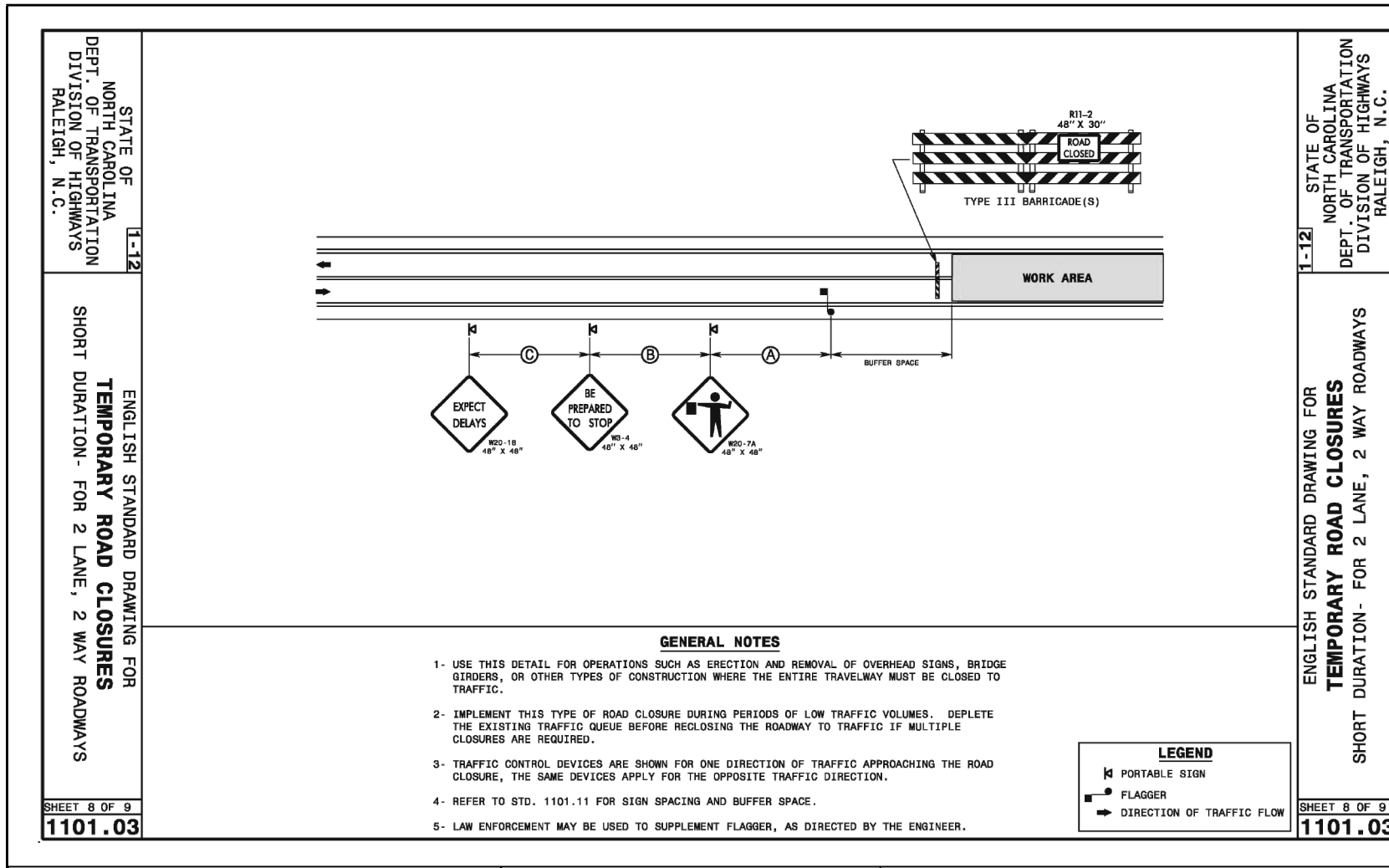
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 Authorization to Construct _____
 Date _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ORCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____
 RALEIGH WATER REVIEW OFFICER _____

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MANAGEMENT STRATEGIES:

- VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITIES INCLUDING, SANITARY SEWER INSTALLATION, MILLING AND OVERLAYING PAVEMENT OPERATIONS AND FINAL PAVEMENT MARKING INSTALLATION.
- DRIVEWAY ACCESS TO THE ADJACENT HOMES, LOCATED ALONG WINTER SPRING DRIVE SHALL BE MAINTAINED WITH MINIMAL IMPACT.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC SHALL MEET MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
- NOTIFY THE ENGINEER, WAKE COUNTY EMERGENCY SERVICES AND THE TOWN OF ROLESVILLE AT LEAST ONE (1) MONTH PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

ROADWAY STANDARD DRAWINGS:

- THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JUNE 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1.1.	654.01 PAVEMENT REPAIRS
1.2.	904.50 MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS
1.3.	1101.01 WORK ZONE ADVANCE WARNING SIGNS
1.4.	1101.02 TEMPORARY LANE CLOSURES
1.5.	1101.03 TEMPORARY ROAD CLOSURES
1.6.	1101.04 TEMPORARY SHOULDER CLOSURES
1.7.	1101.11 TRAFFIC CONTROL DESIGN TABLES
1.8.	1110.01 STATIONARY WORK ZONE SIGNS
1.9.	1110.02 PORTABLE WORK ZONE SIGNS
1.10.	1130.01 DRUMS
1.11.	1145.01 BARRICADES
1.12.	1150.01 FLAGGERS
1.13.	1205.01 PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1.14.	1205.05 PAVEMENT MARKINGS - TURN LANES
1.15.	1205.07 PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1.16.	1205.08 PAVEMENT MARKINGS - SYMBOLS AND WORD

TRANSPORTATION OPERATION PLAN:

- IN CASE OF EMERGENCY, CALL 911

THE FOLLOWING IS A LIST OF LOCAL NON-EMERGENCY NUMBERS:
WAKE COUNTY EMERGENCY SERVICES: 919-856-6020
TOWN OF ROLESVILLE POLICE: 919-556-7226

- ANY TRAFFIC INCIDENT (IF APPLICABLE) THAT OCCURS DURING THE LIFE OF THE SANITARY SEWER INSTALLATION WILL BE DISCUSSED BY THE CONTRACTOR, AND THE ENGINEER OF RECORD TO DETERMINE WHETHER ANY CHANGES NEED TO BE MADE TO THE TRAFFIC CONTROL ON THE PROJECT.

GENERAL NOTES:

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF CONSTRUCTION OF THE SANITARY SEWER EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS - REQUIRES INTERMEDIATE CONTRACT TIME PROJECT SPECIAL PROVISIONS.

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
JONES DAIRY ROAD	SCHOOL DAYS 8:45 AM TO 9:45 AM & 3:15 PM TO 4:15PM

LANE AND SHOULDER CLOSURE REQUIREMENTS

- REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15-FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5-FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

MESSAGE PATTERNS:

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15-FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED BY GUARDRAIL OR BARRIER.
- BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OR EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
BACKFILL WITH SUSTAINABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 100-FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40-FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100-FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

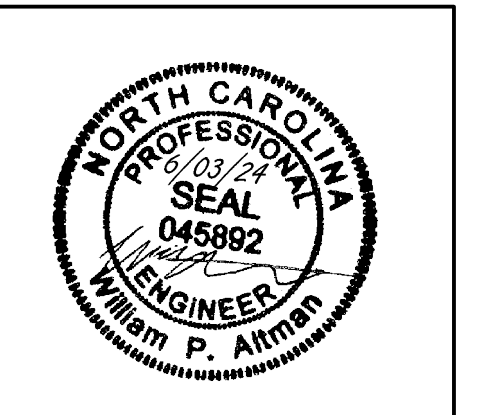
- WHEN LANE CLOSURES ARE NOT IN EFFECT, SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT 10-FT ON-CENTER RADI, AND 3-FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES), AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE THE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER. IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS. CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.)



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DATE	REVISION DESCRIPTION
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSED NCOT REVIEW COMMENTS
05/01/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023

DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

CHECKED BY: W. ALTMAN

SCALE: AS SHOWN

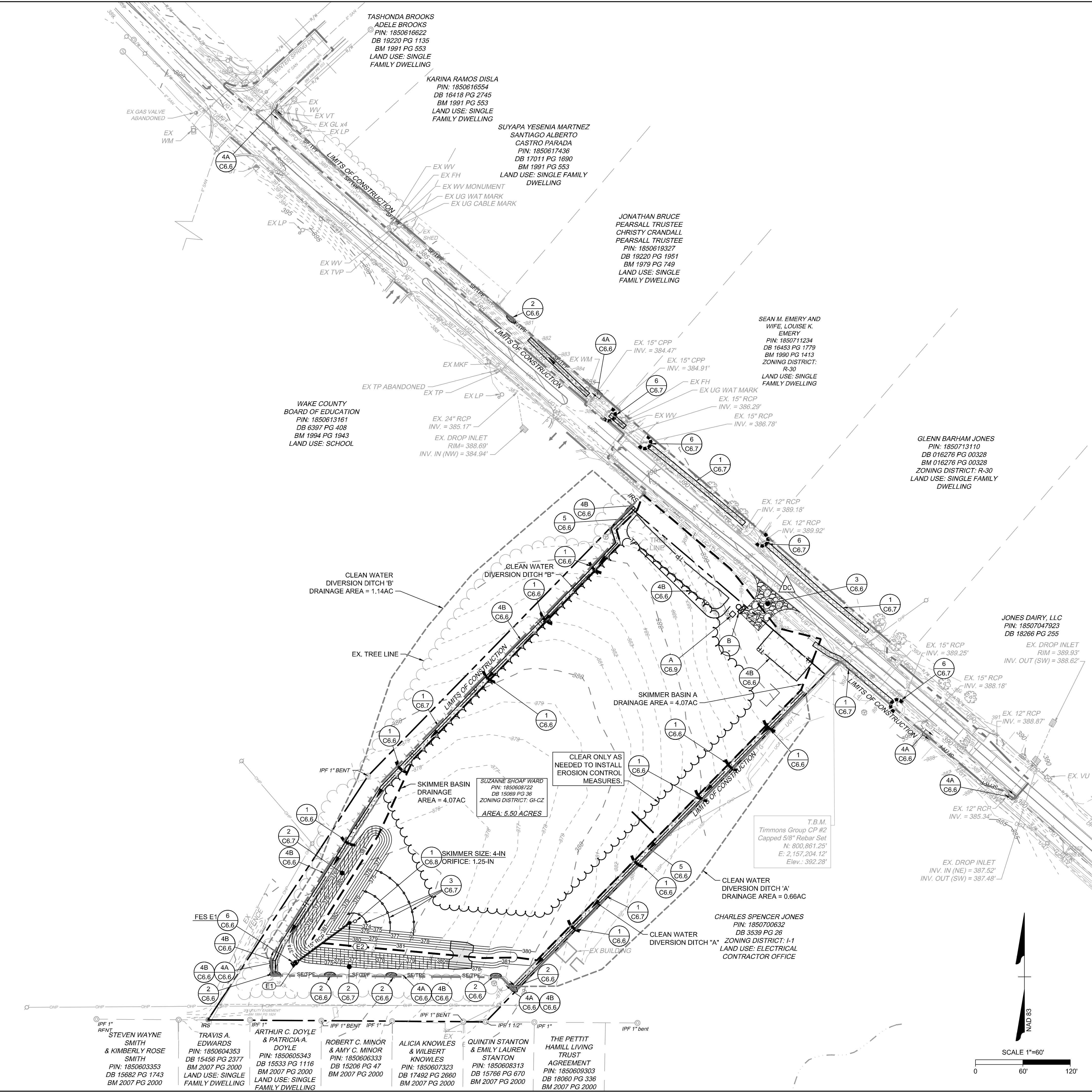
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OFF-SITE DETOUR PLAN

JOB NO. 54832
SHEET NO. C4.3

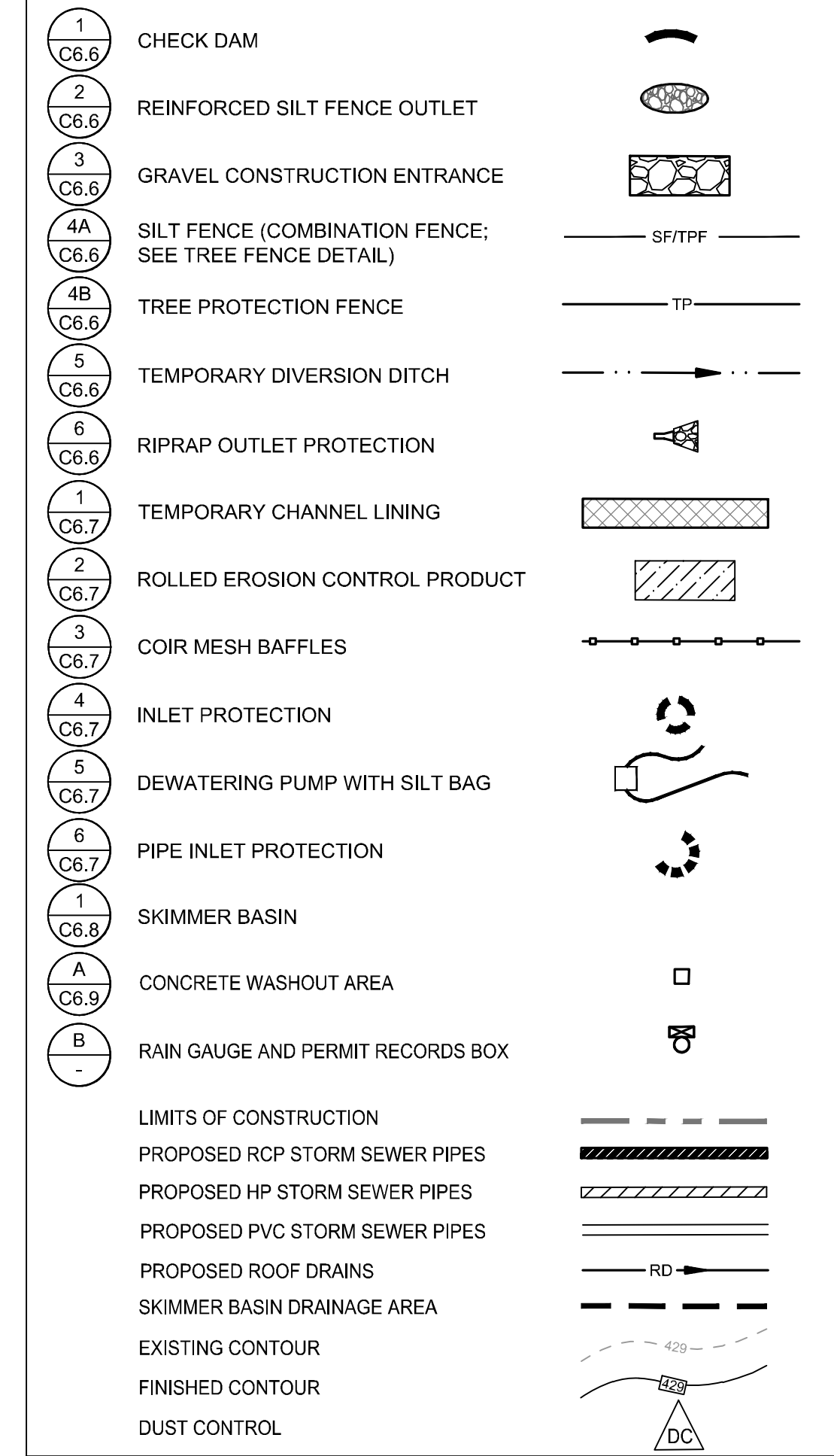
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EROSION CONTROL NOTES

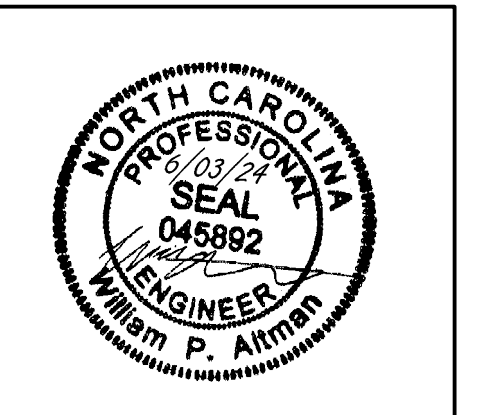
1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
3. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
4. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
5. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
6. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
7. TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
8. ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
10. TOTAL DISTURBED AREA: 5.93 AC.

KEYNOTES



CONSTRUCTION SEQUENCE - PH I

1. OBTAIN AN APPROVED PLAN AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND APPROVAL LETTER MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES BY CALLING JEEVAN NEUPANE, PE AT (919) 819-8907.
2. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH JEEVAN NEUPANE, PE BY CALLING AT (919) 819-8907. OBTAIN A LAND DISTURBING PERMIT.
3. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER NECESSARY AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
4. INSTALL STORM STRUCTURES E2-E1 WITH RIP RAP OUTLET PROTECTION RR-1 AS SHOWN ON PLANS (PRIOR TO SKIMMER BASIN INSTALLATION)
5. CALL ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, PE, FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
7. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LAY DOWN, STAGING, DIRT & WASTE PILE AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. ONCE THE SITE IS READY TO MOVE FORWARD WITH SITE PAVING, STABILIZE THE SITE AND PROCEED TO PHASE 2 EROSION CONTROL.



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DATE	REVISION DESCRIPTION
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSED NC DOT REVIEW COMMENTS
05/01/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE	04/05/2023
DRAWN BY	L. BARNES
DESIGNED BY	W. ALTMAN
CHECKED BY	W. ALTMAN
SCALE	AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION & SEDIMENTATION CONTROL PLAN - PH I

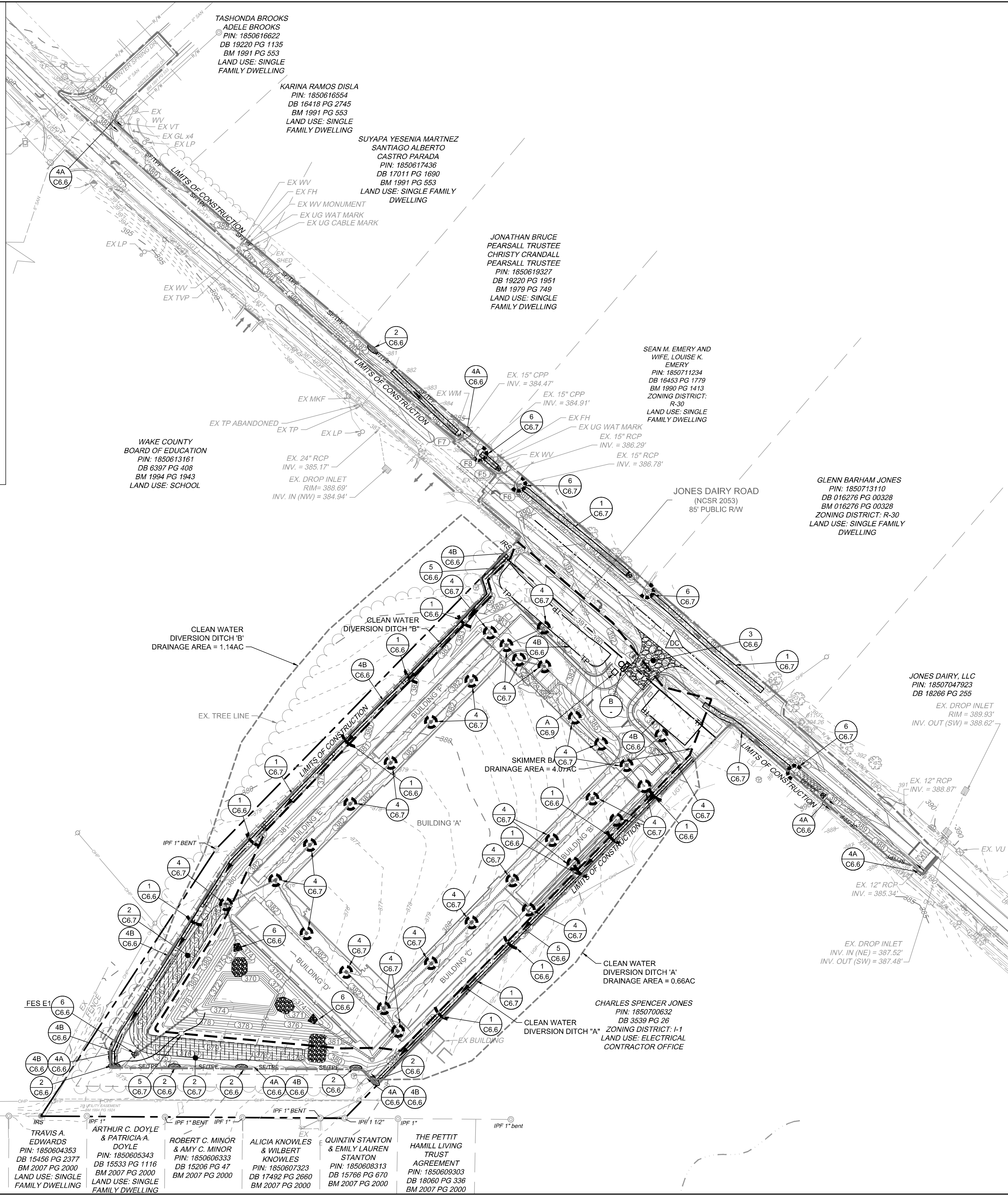
JOB NO.	54832
SHEET NO.	C5.0

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CONSTRUCTION SEQUENCE - PH II

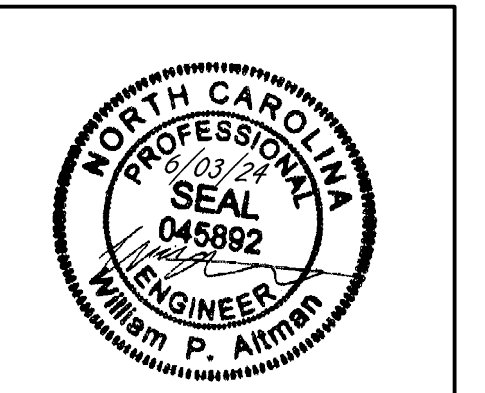
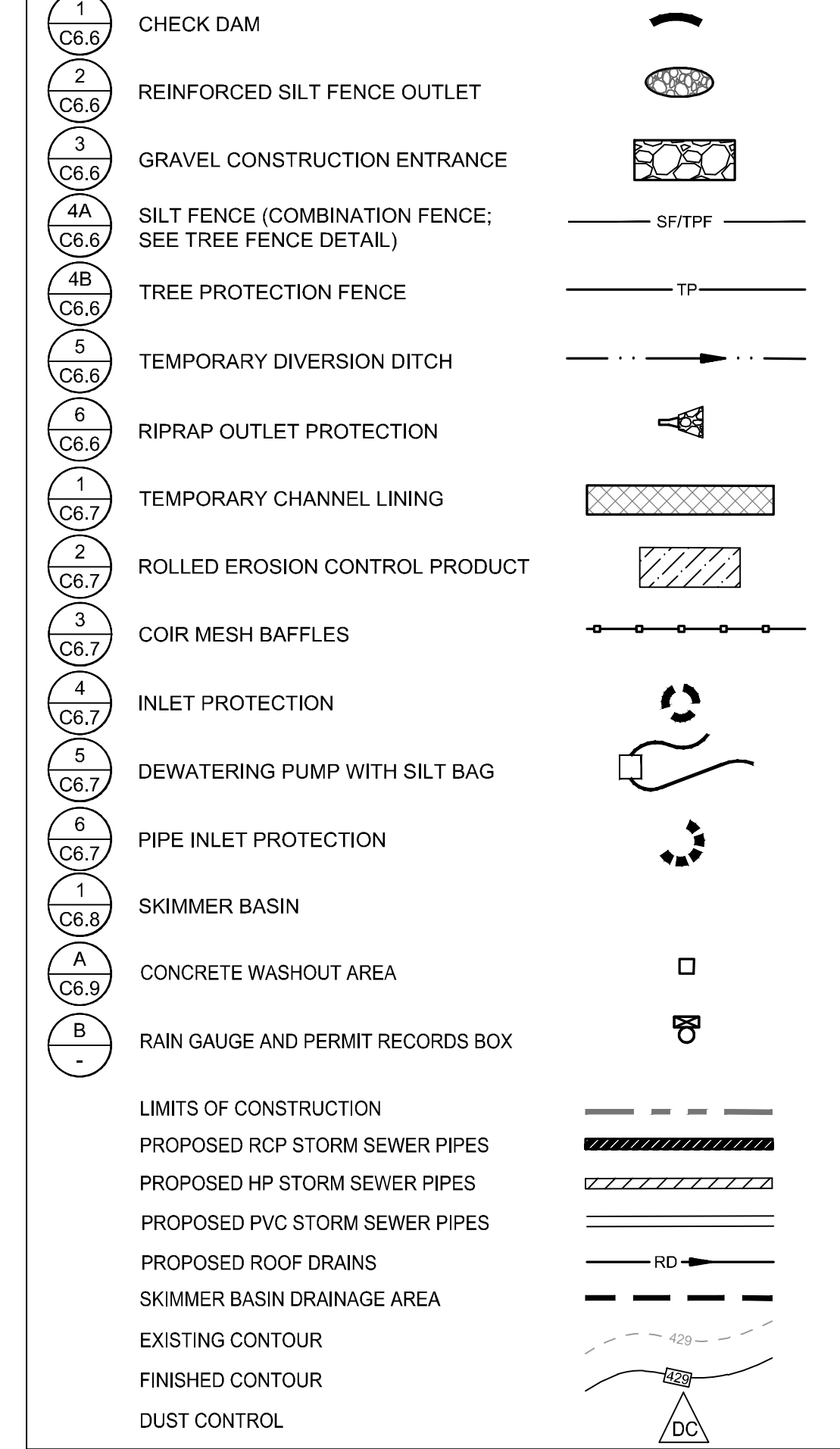
1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I. ADJUST AS NEEDED.
2. AS SITE IS PAVED AND BROUGHT UP TO FINAL GRADE, INSTALL THE REMAINDER OF THE STORM DRAINAGE SYSTEM. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED.
3. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDE AREAS PER GROUND STABILIZATION TIME FRAMES.
4. INSTALL REMAINDER OF PAVING AND SITE FEATURES.
5. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS ON ANY 3:1 SLOPES AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED AS SHOWN ON PLANS.
6. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL JEEVAN NEUPANE, PE AT (919) 819-8907 AND TIMMONS GROUP AT (919) 868-4938 FOR AN INSPECTION AND APPROVAL FOR SEDIMENT BASIN CONVERSION.
7. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&S JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION, B) BASIN #, C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
8. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING, PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
9. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
10. WHEN SITE IS FULLY STABILIZED, CALL JEEVAN NEUPANE, PE AT (919) 819-8907 FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.
11. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
12. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY JEEVAN NEUPANE, PE. OBTAIN A CERTIFICATE OF COMPLETION.



EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
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5. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
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10. TOTAL DISTURBED AREA: 5.93 AC.

KEYNOTES



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REVISION DESCRIPTION	DATE
ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS	08/07/2023
ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS	11/01/2023
ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS	03/21/2024
ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS	05/01/2024
ADDRESSED TOWN OF ROLESVILLE 6TH REVIEW COMMENTS	06/03/2024

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DATE	DRAWN BY
04/05/2023	L. BARNES

DESIGNED BY	CHECKED BY	SCALE
W. ALTMAN	W. ALTMAN	AS SHOWN

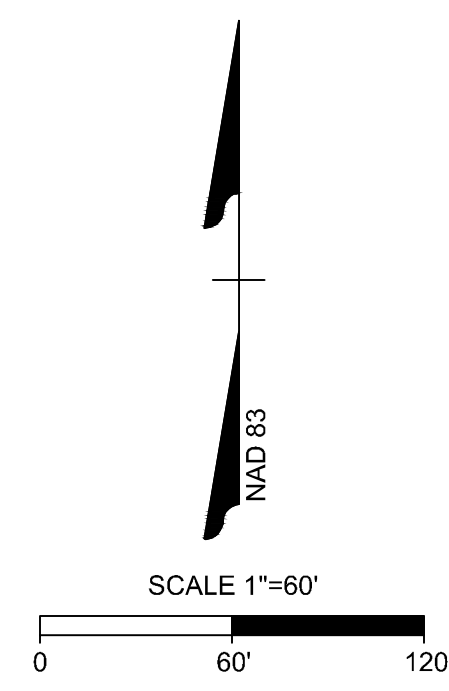
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

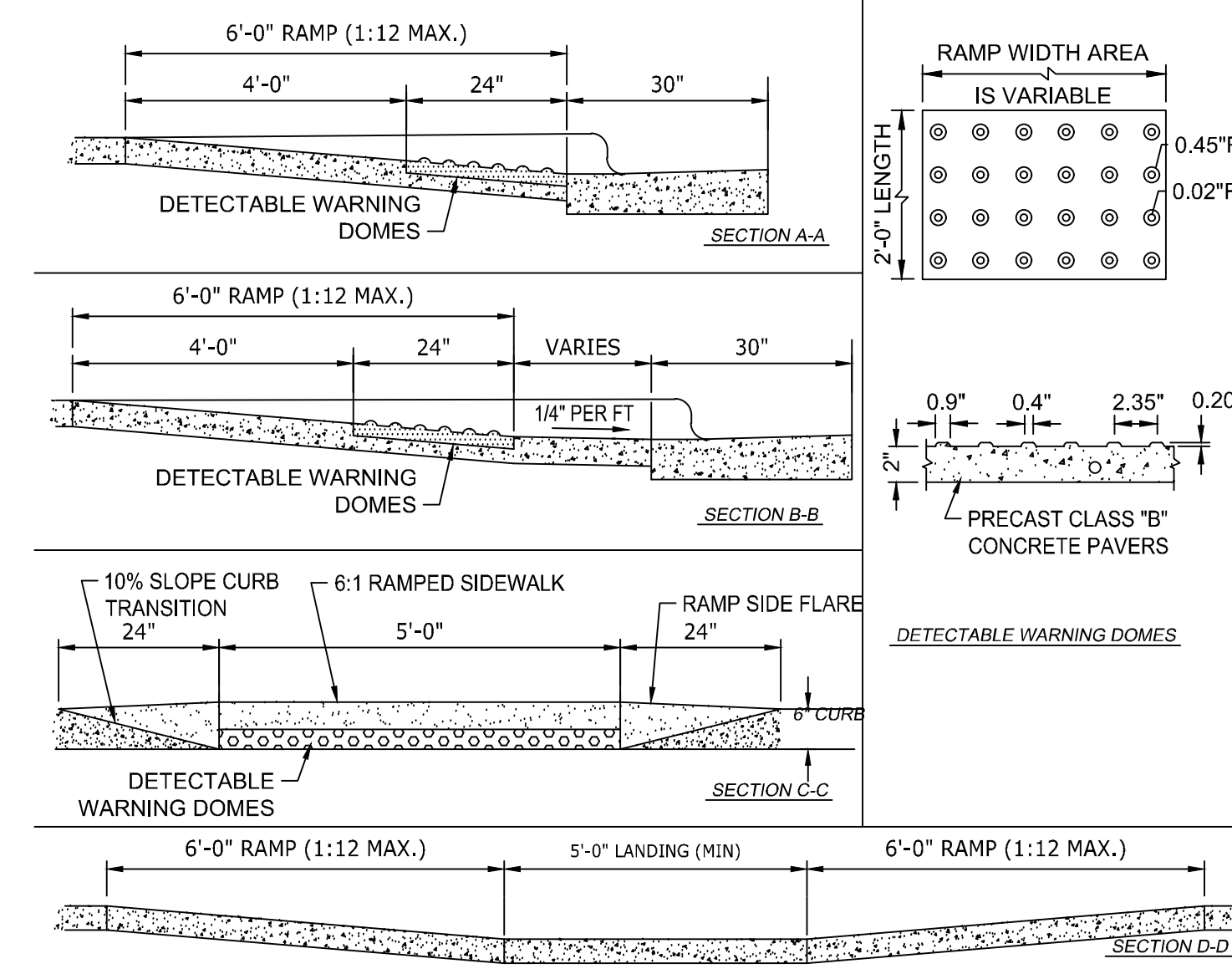
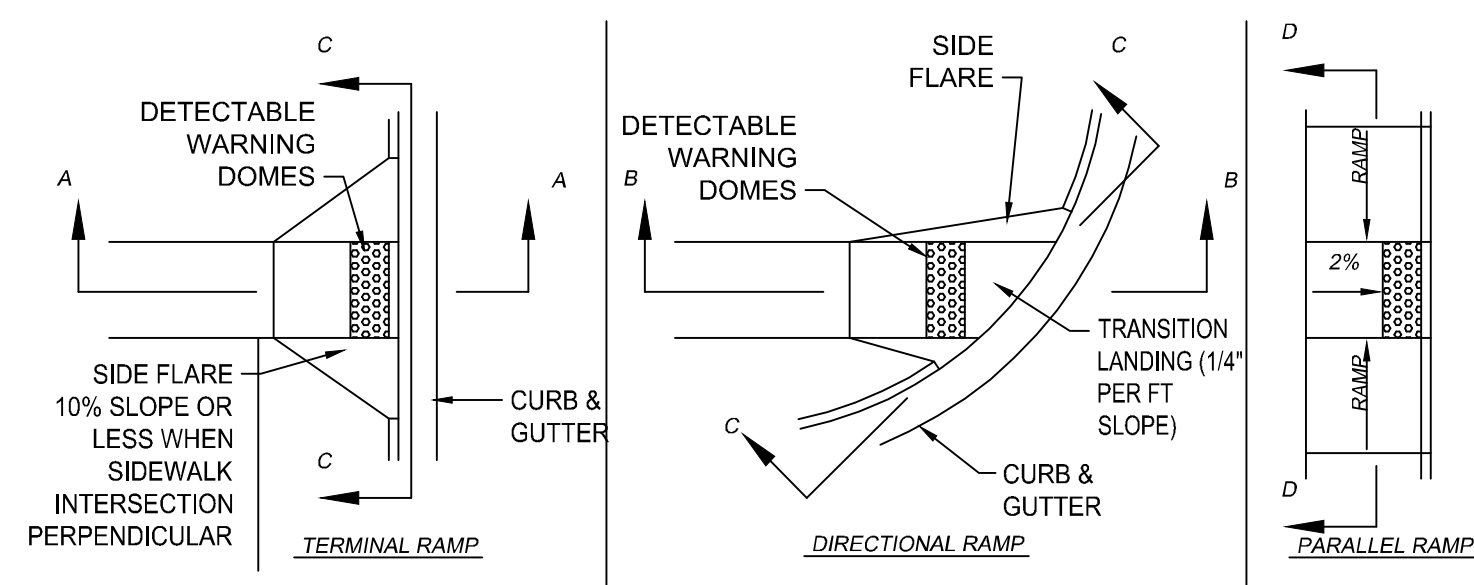
JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION & SEDIMENTATION CONTROL PLAN - PH II

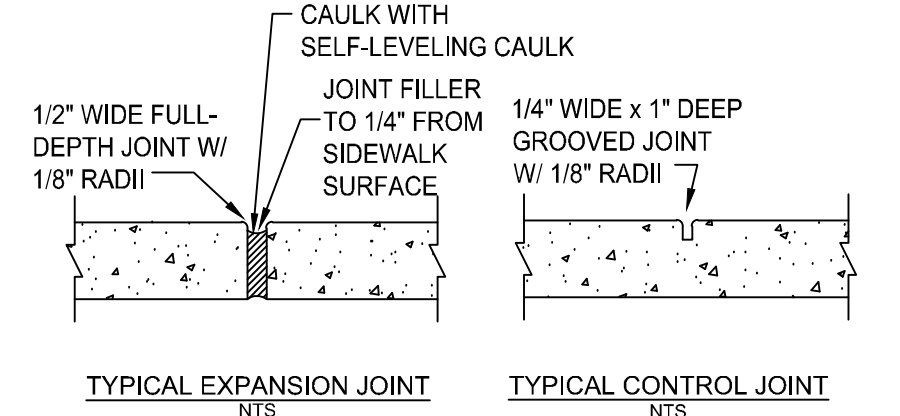
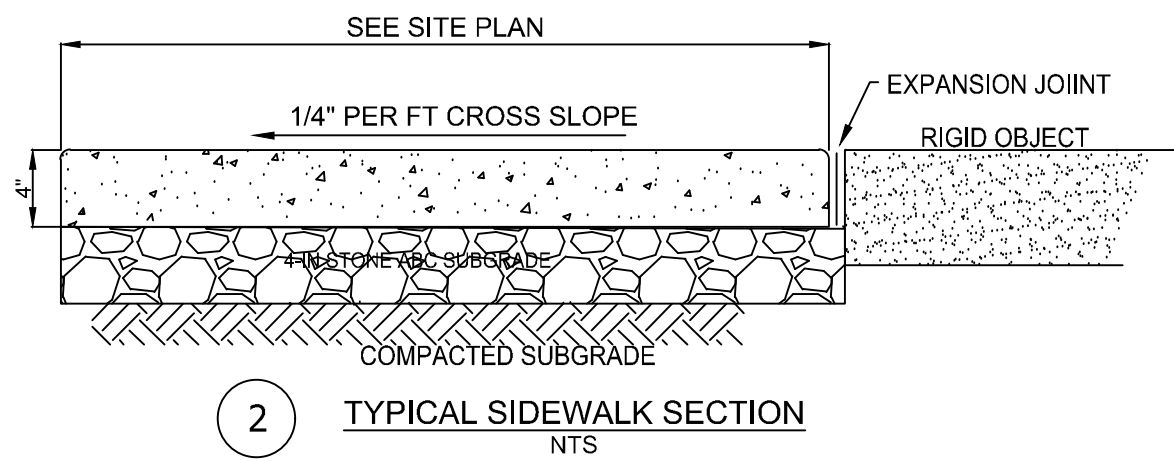
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JOB NO.	SHEET NO.
54832	C5.1

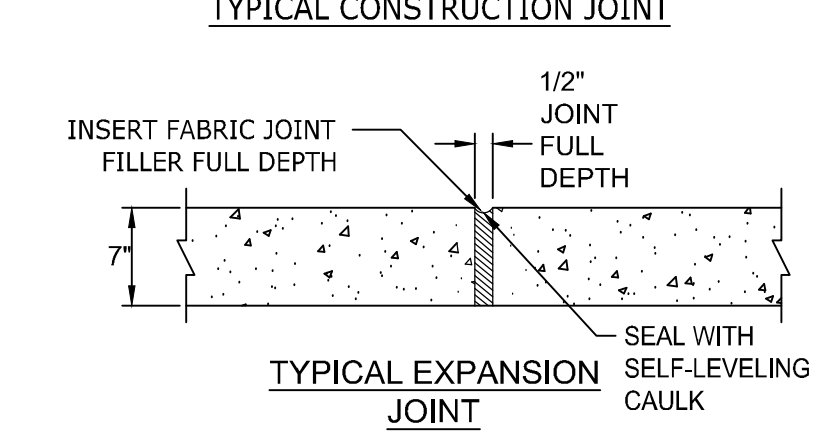
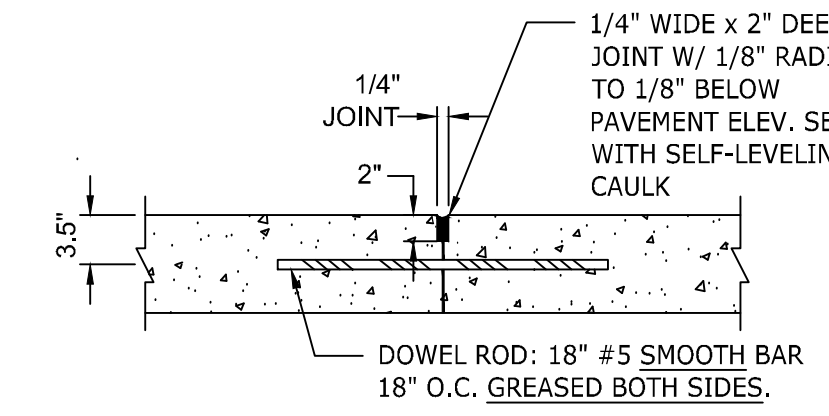
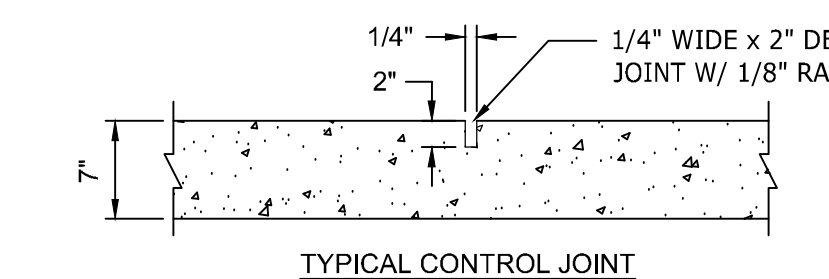
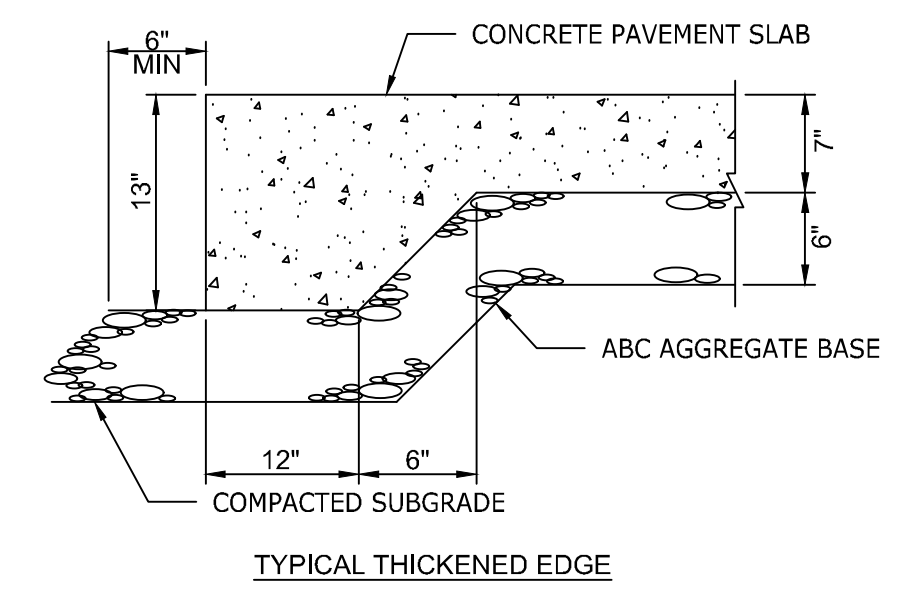




- NOTES:
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 17/1' (1:12) IN RELATIONSHIP TO THE GRADE OF THE STREET. WHERE SIDEWALK INTERSECTS RAMP PERPENDICULAR, SIDE FLARES SHALL BE LESS THAN 10% SLOPE.
 - IN NO CASE SHALL THE WIDTH OF THE ACCESS RAMP BE LESS THAN 48" (4'-0")
 - DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN.
 - FLARES MAY BE SLOPED GREATER THAN 10% WHEN A SIDEWALK IS NOT INTERSECTING PERPENDICULAR WITH RAMP



- GENERAL NOTES:
- PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADI IN SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
 - PROVIDE 1/2-IN EXPANSION JOINT AT 50' INTERVALS.
 - PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS ANY RIGID STRUCTURE.
 - SEE SPECIFICATIONS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
 - ALL CONCRETE SHALL BE 3,000 P.S.I. WITH BROOM FINISH.
 - ALL SIDEWALKS SHALL HAVE 2% OR LESS CROSS SLOPE.
 - ALL SIDEWALKS SHALL HAVE 5% OR LESS LONGITUDINAL SLOPE.
 - CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.



CONCRETE PAVEMENT DIMENSIONS
 CONC SLAB THICKNESS = 7"
 ABC THICKNESS = 6"
 REINFORCEMENT = 6x6 - W2.9xW2.9
 DOWEL RODS = 18" #5 SMOOTH BARS
 GREASED BOTH SIDES

- NOTES:
- ALL CONCRETE PAVEMENT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI MIN. (ASTM C39).
 - CONTROL JOINTS SHALL BE SPACED AT 10' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.
 - EXPANSION JOINTS SHALL BE SPACED AT 30' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 - INSTALL THICKENED EDGES ALONG ALL EDGES / SIDES OF CONCRETE PAVEMENT.
 - O.C.E.W. REFERS TO "ON CENTER EACH WAY".
 - CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.

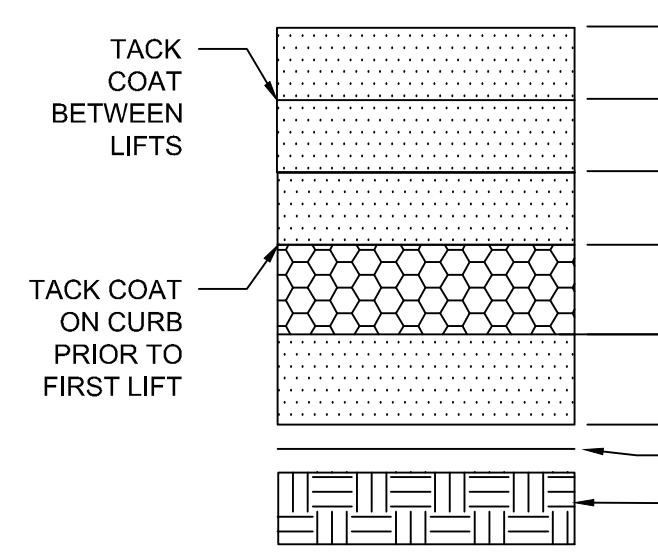
1 ACCESSIBLE CURB RAMPS N.T.S.

2 STANDARD DUTY CONCRETE PAVEMENT N.T.S.

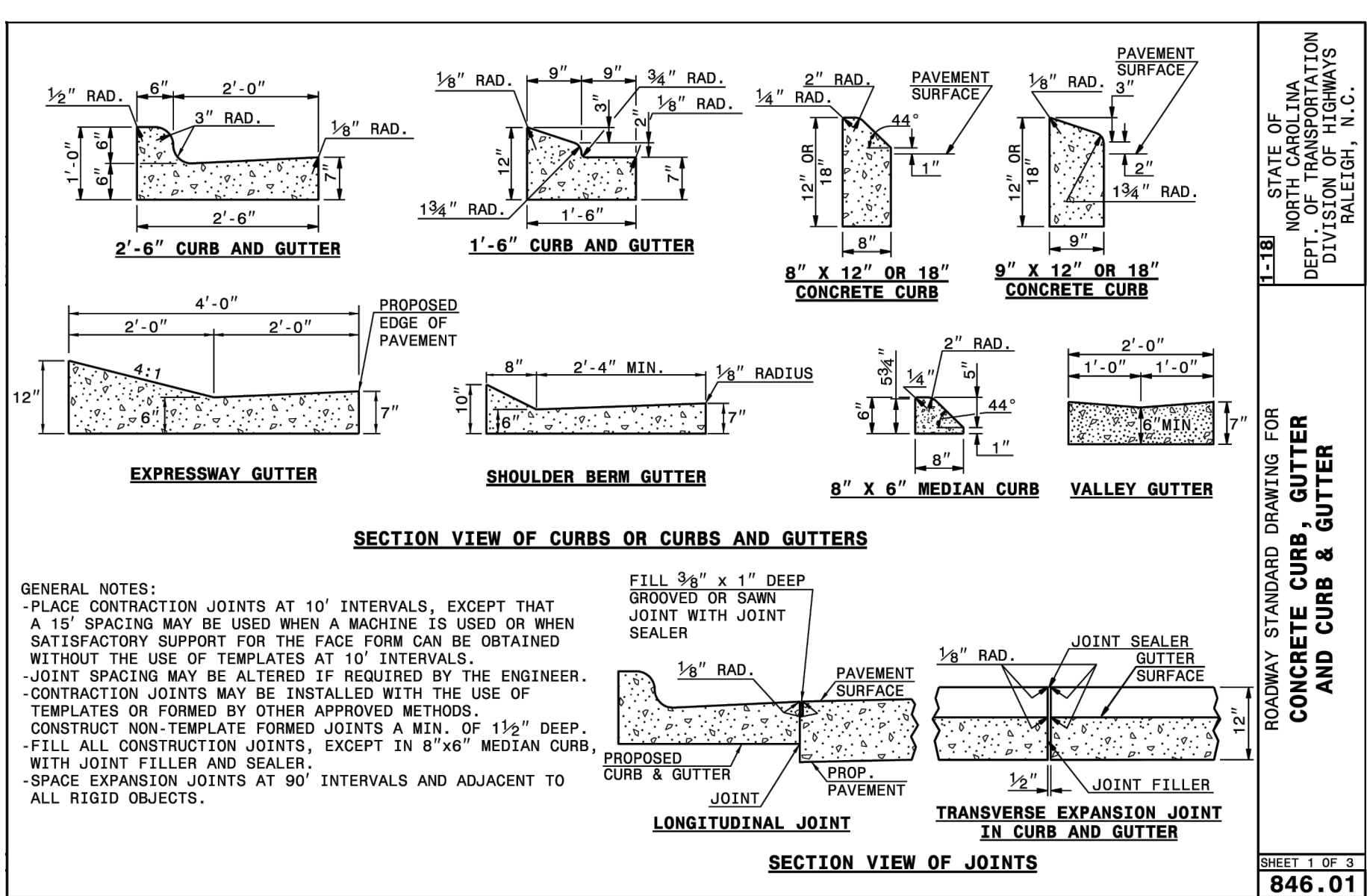
3 HEAVY DUTY CONCRETE PAVEMENT N.T.S.

COMPACTION NOTES:
 SUBGRADE AND ABC STONE
 1. COMPACT TO MAXIMUM DRY DENSITY PER ASTM D698 STANDARD PROCTOR AND WITHIN 3% MAXIMUM MOISTURE CONTENT.
 2. COMPACT SUBGRADE SOIL TO 95%
 3. COMPACT ABC STONE TO 100%.
 4. REFER TO NCDOT SPECIFICATION FOR ADDITIONAL INFORMATION.
 ASPHALT
 1. COMPACT ASPHALT TO 92% MAXIMUM SPECIFIC GRAVITY.
 2. REFER TO NCDOT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

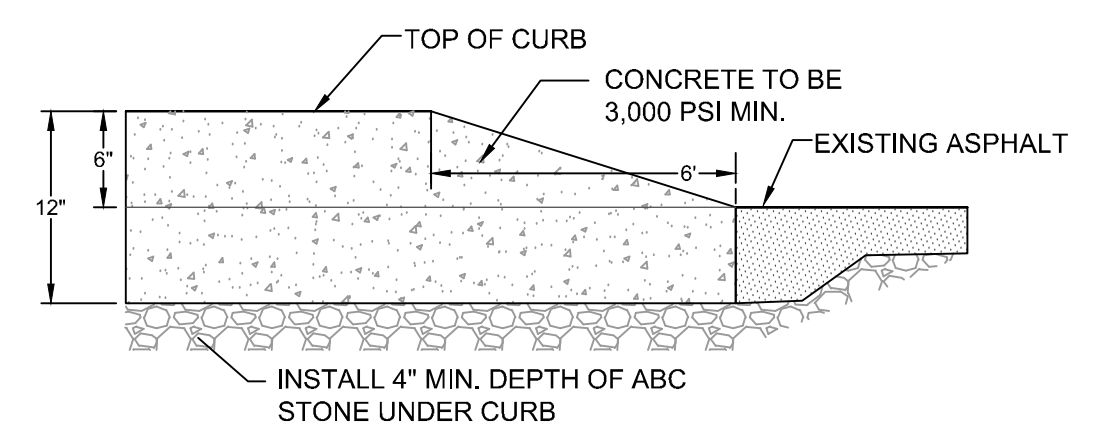
KEYNOTE	4 C6.0	5 C6.0	6 C6.0	7 C6.0	8 C6.0
PATTERN	[Pattern]	[Pattern]	[Pattern]	[Pattern]	[Pattern]
CLASSIFICATION	STANDARD DUTY ASPHALT	LIGHT DUTY ASPHALT	NCDOT FULL DEPTH ASPHALT	NCDOT OVERLAY	ASPHALT MULTI-USE PATH
TYPE S-9.5B (2018) SURFACE COURSE	3" (2-1.5" LIFTS)	3" (2-1.5" LIFTS)	-	-	2"
TYPE S-9.5C (2018) SURFACE COURSE	-	-	3" (2-1.5" LIFTS)	1.5"	-
TYPE I-19.0C (2018) INTERMEDIATE COURSE	-	-	4"	-	-
NCDOT CABG STONE	8"	6"	-	-	4"
B 25.0C BASE COURSE	-	-	5"	-	-



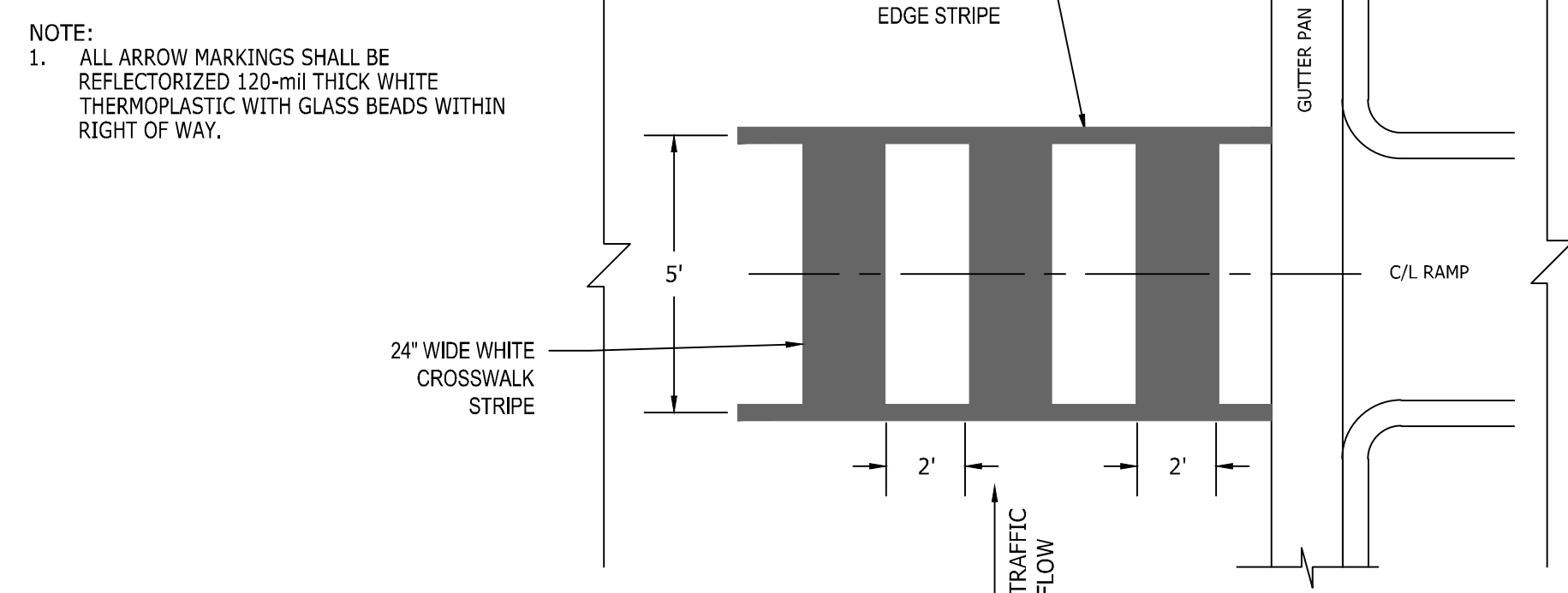
- NOTES:
- THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.
 - CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QC TESTING, PROOF ROLL, AND REQUIREMENTS NOTED IN SPECIFICATIONS.
 - OWNER WILL ACQUIRE 3RD PARTY QC TESTING SERVICES FOR SOILS AND PAVEMENTS.
 - REFER TO NCDOT SPECIFICATIONS FOR ADDITIONAL INFORMATION.



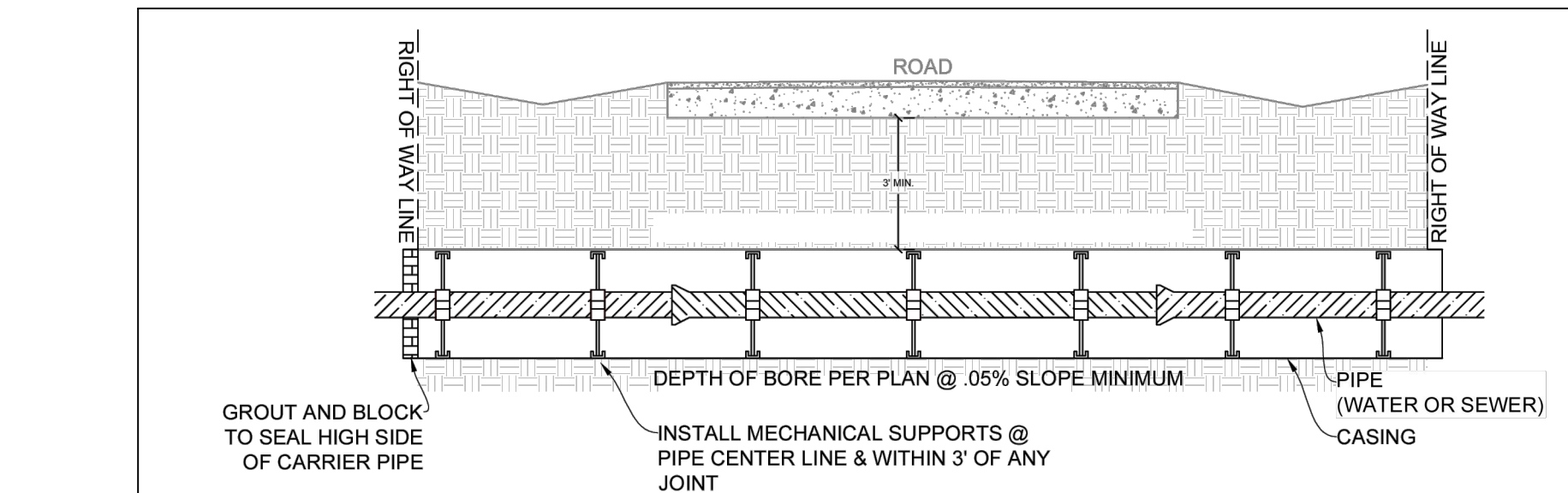
9 NCDOT 30" CONCRETE CURB AND GUTTER N.T.S.



10 CURB ENDING TAPER N.T.S.



11 HIGH VISIBILITY CROSS WALK MARKING N.T.S.

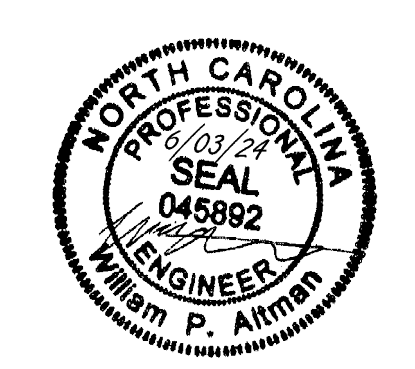


- NOTES:
- CASING SHALL BE UNCOATED SPIRAL WELDED STEEL MEETING ASTM A-139, GRADE B WITH A YIELD STRENGTH OF 35,000 PSI.
 - CROSSINGS ON NCDOT MAINTAINED ROADS TO BE IN ACCORDANCE WITH CURRENT NCDOT STANDARDS AND APPROVED ENCROACHMENT AGREEMENT.
 - RESTRAINED JOINT PIPE ONLY. MEGE-LUGS ARE NOT PERMITTED.
 - SUPPORTS SHALL BE MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS, INC, PIPELINE SEAL AND INSULATOR LTD, OR BWM COMPANY.
 - THREE SUPPORTS SHALL BE INSTALLED ON EACH PIPE SEGMENT.
 - LARGER ENCASMENT SIZES MAY BE UTILIZED AT THE DISCRETION OF THE DESIGN ENGINEER AND/OR CONTRACTOR FOR EASE OF INSTALLATION AS LONG AS ALL OTHER DESIGN CRITERIA IS MET.
 - ALL PIPES 36" AND LARGER SHALL REQUIRE 4 SUPPORTS.

Carrier Pipe Nominal Diameter (inches)	Casing Minimum Inside Diameter (inches)	Casing Nominal Wall Thickness (inches)
6	14	0.375
8	16	0.375
10	18	0.375
12	20	0.375
14	24	0.375
16	30	0.500
18	30	0.500
20	36	0.500
24	36	0.625
30	42	0.625
36	48	0.750
42	54	0.875

12 BORE & JACK N.T.S.

4 5 6 7 8 ASPHALT & GRAVEL PAVEMENTS N.T.S.



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 DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

CHECKED BY: W. ALTMAN

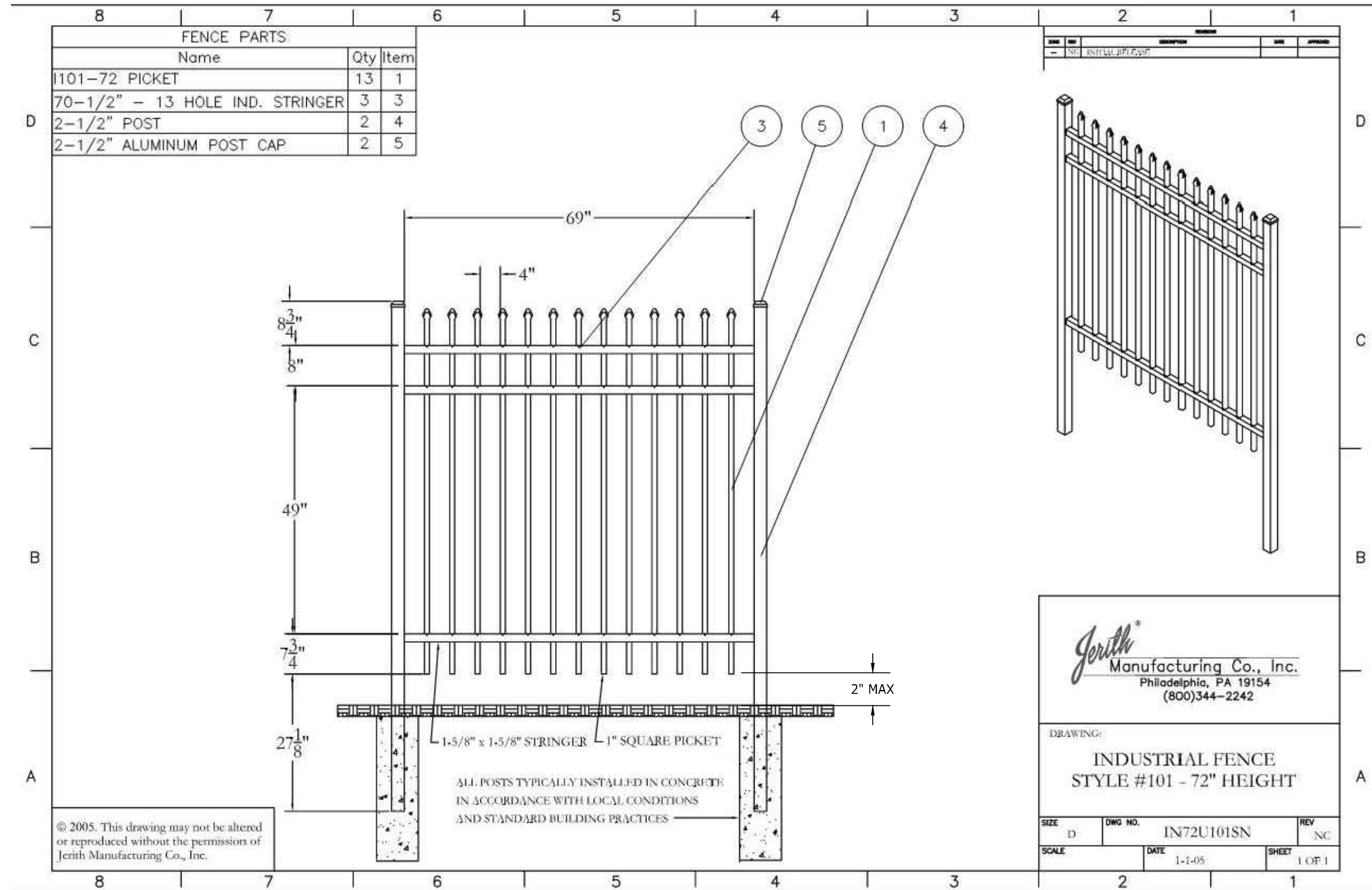
SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 SITE DETAILS

JOB NO. 54832
 SHEET NO. C6.0

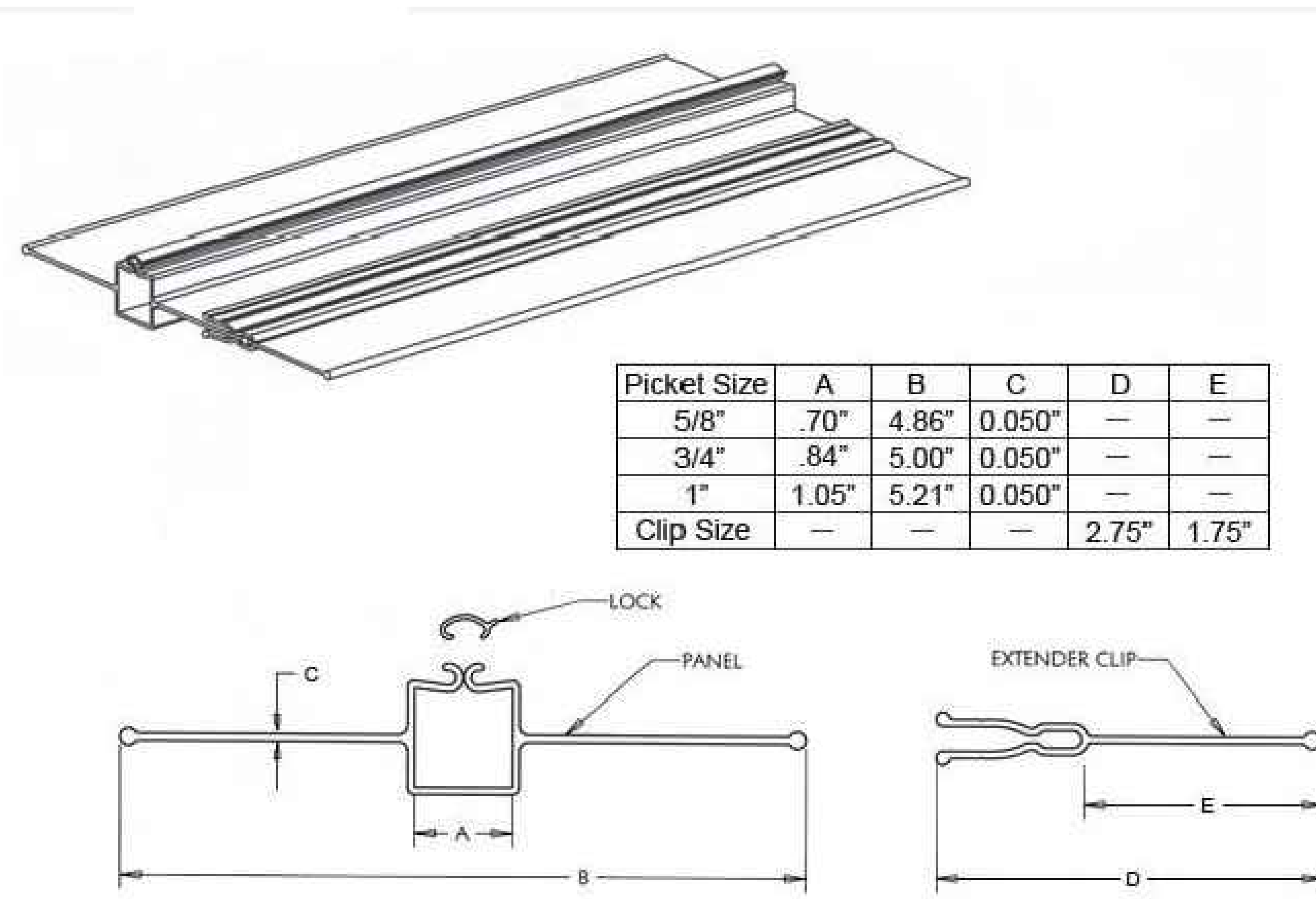
S:\333\4832-Rolesville_Site_SitePlan\DWG\Sheet\C6.0-N.T.D.T.dwg | Printed on 03/20/24, 10:03 AM | By: Lyndee Barnes

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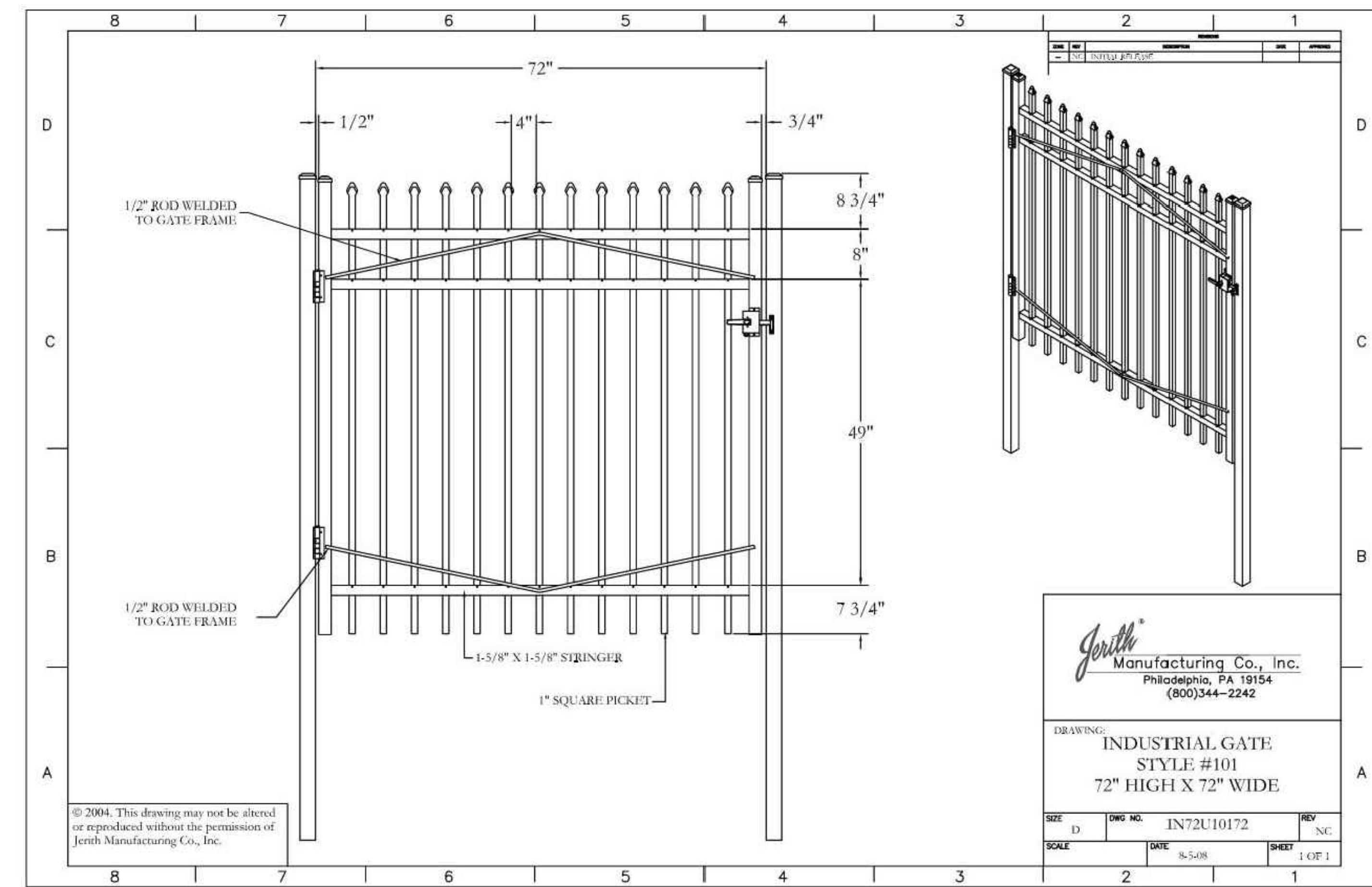


- NOTES:
 1. ALL FENCING SHALL BE INSTALLED PER MANUFACTURES STANDARDS AND SPECIFICATIONS.
 2. PROVIDE BUILDING PERMITTING AS REQUIRED BY WAKE COUNTY

① ORNAMENTAL FENCE (6' HEIGHT) N.T.S.

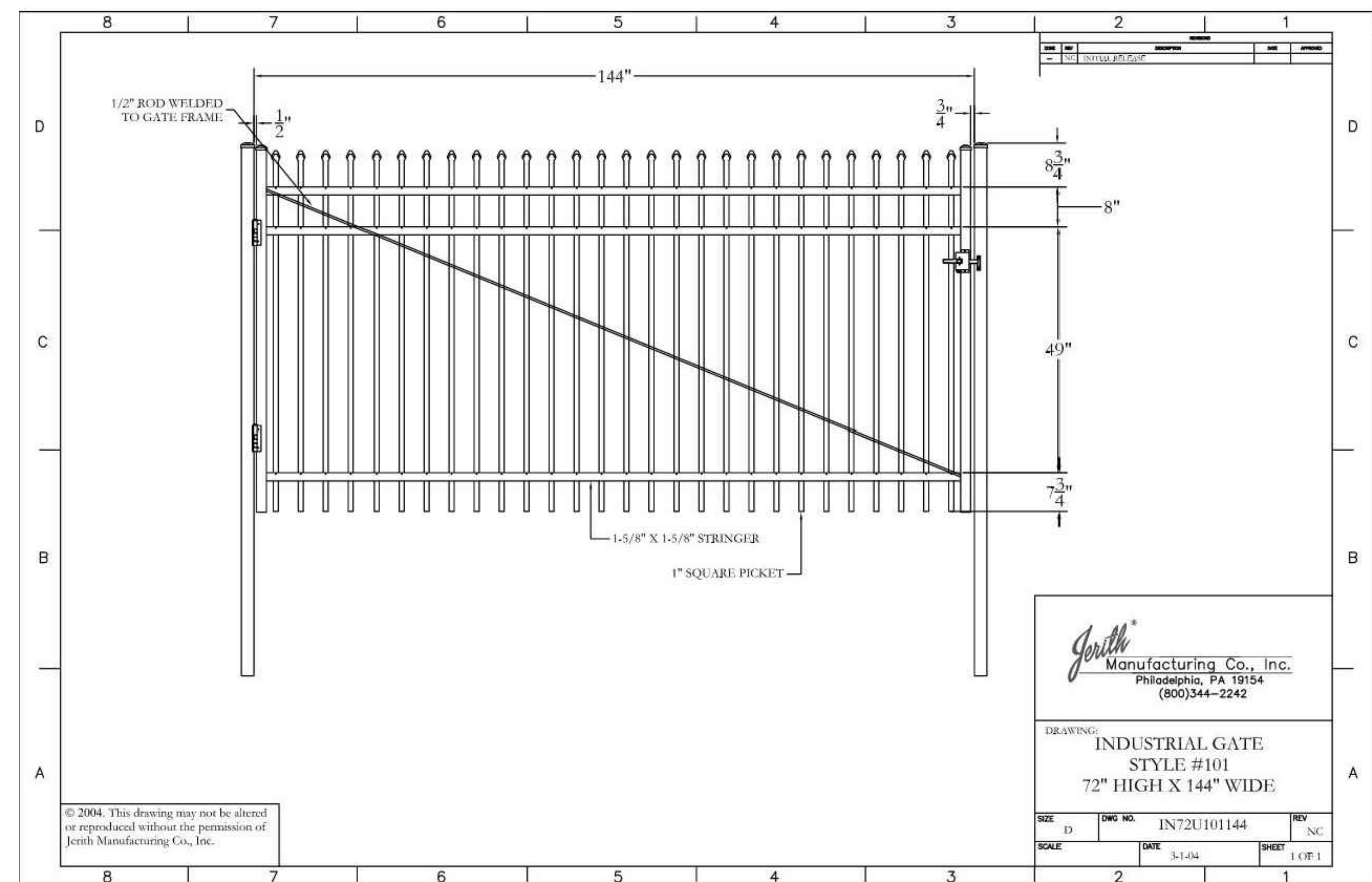


② ORNAMENTAL FENCE PRIVACY SLATS N.T.S.



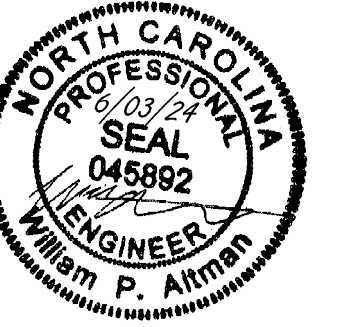
- NOTES:
 1. ALL FENCING SHALL BE INSTALLED PER MANUFACTURES STANDARDS AND SPECIFICATIONS.
 2. PROVIDE BUILDING PERMITTING AS REQUIRED BY WAKE COUNTY

③ ORNAMENTAL GATES (SEE PLANS FOR GATE WIDTH) N.T.S.



- NOTES:
 1. ALL FENCING SHALL BE INSTALLED PER MANUFACTURES STANDARDS AND SPECIFICATIONS.
 2. PROVIDE BUILDING PERMITTING AS REQUIRED BY WAKE COUNTY

④ ORNAMENTAL GATES (SEE PLANS FOR GATE WIDTH) N.T.S.



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DATE: 08/07/2023
 DATE: 11/01/2023
 DATE: 03/21/2024
 DATE: 05/01/2024
 DATE: 06/03/2024

REVISION DESCRIPTION:
 ADDRESSSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
 ADDRESSSED NC DOT REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
 ADDRESSSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

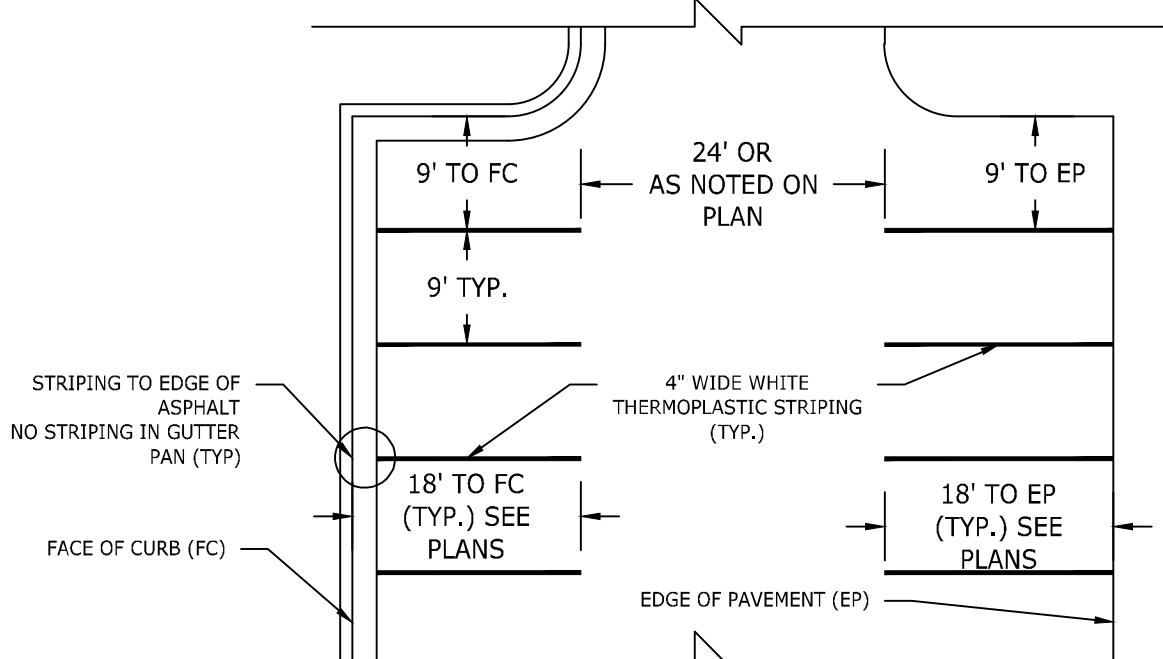
DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SITE DETAILS

JOB NO. 54832
 SHEET NO. C6.1

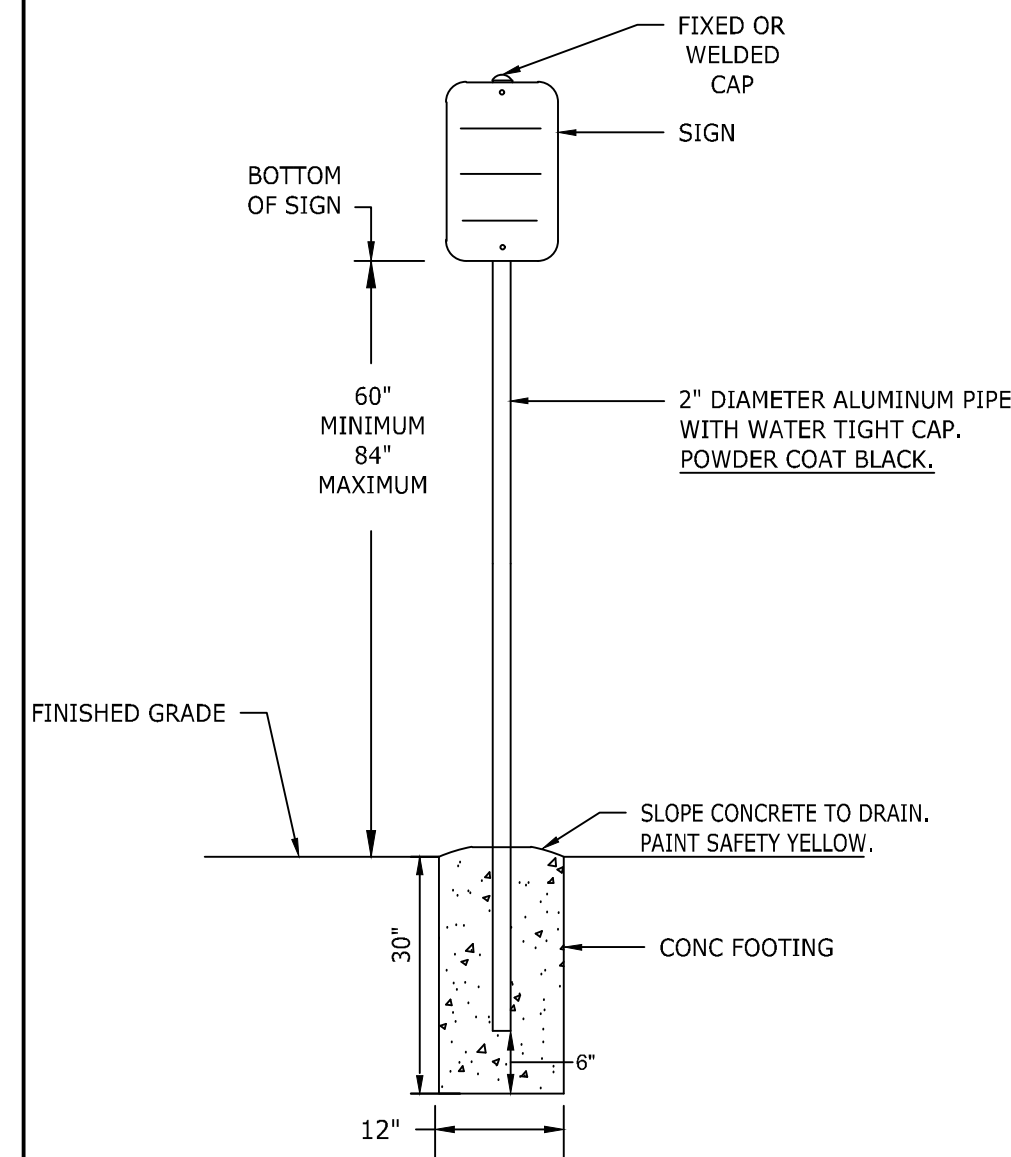
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- NOTE:
 1. ALL PARKING STALL MARKINGS SHALL BE 2 COATS 15-ml THICK ALKYD RESIN PAINT.
 2. FC = FACE OF CURB
 3. EP = EDGE OF PAVEMENT

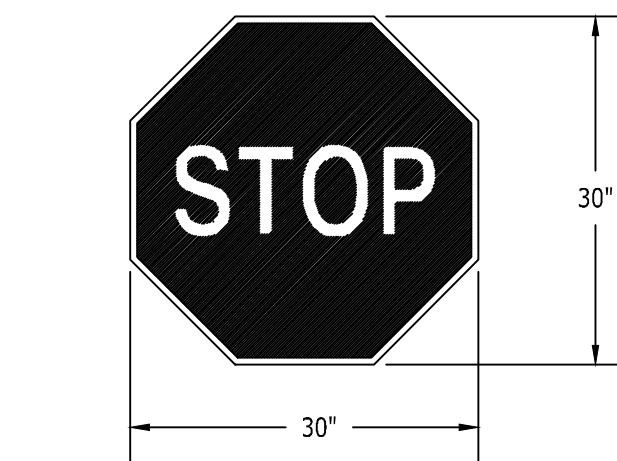


1 PARKING STALL AND TRAFFIC STRIPE

N.T.S.



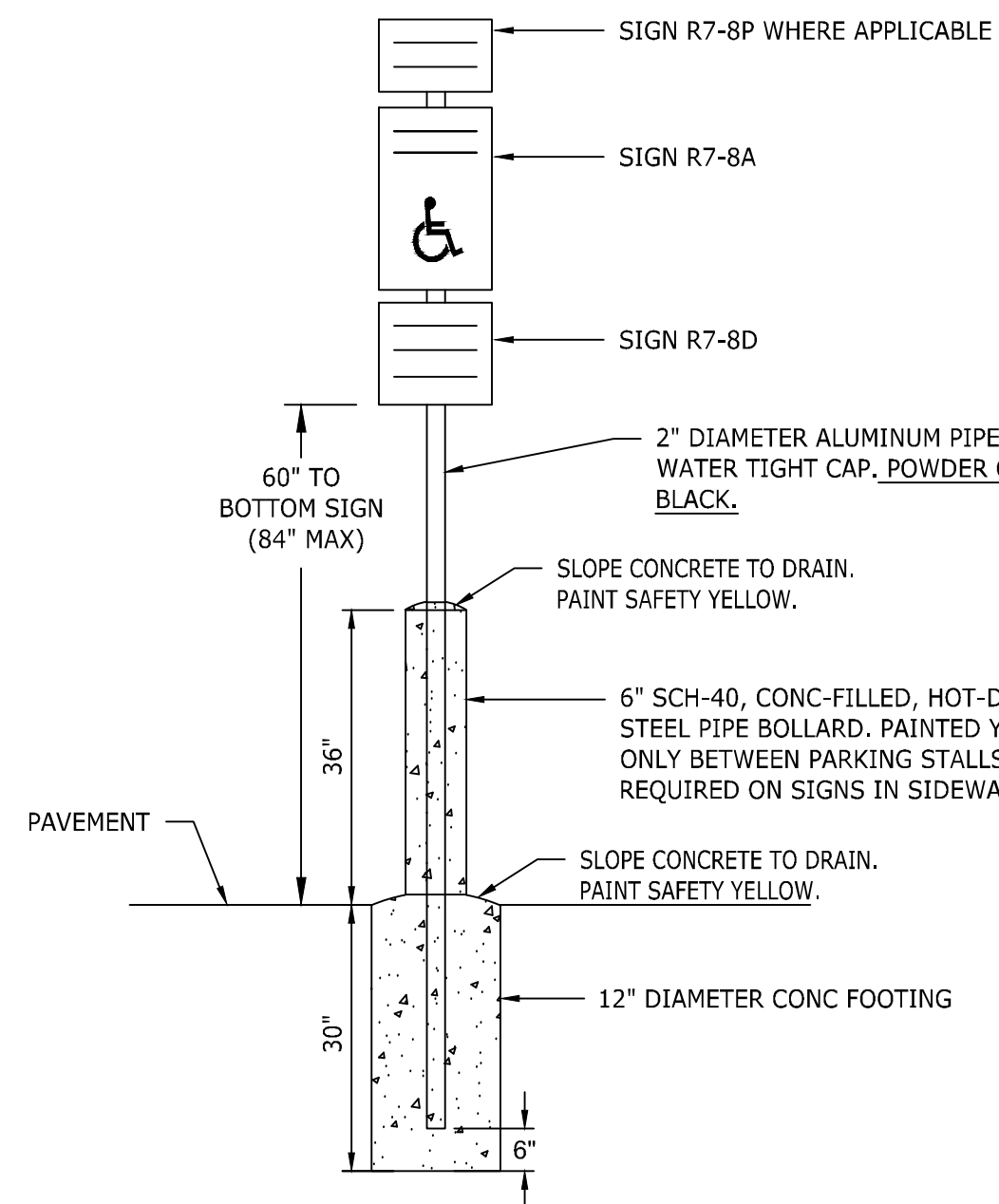
- NOTES:
 1. MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.
 2. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
 3. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
 4. SIGNS SHOULD MEET MUTCD AND NCDOT STANDARDS AND SPECIFICATIONS FOR ROADWAY SIGNAGE AND FOUNDATIONS.



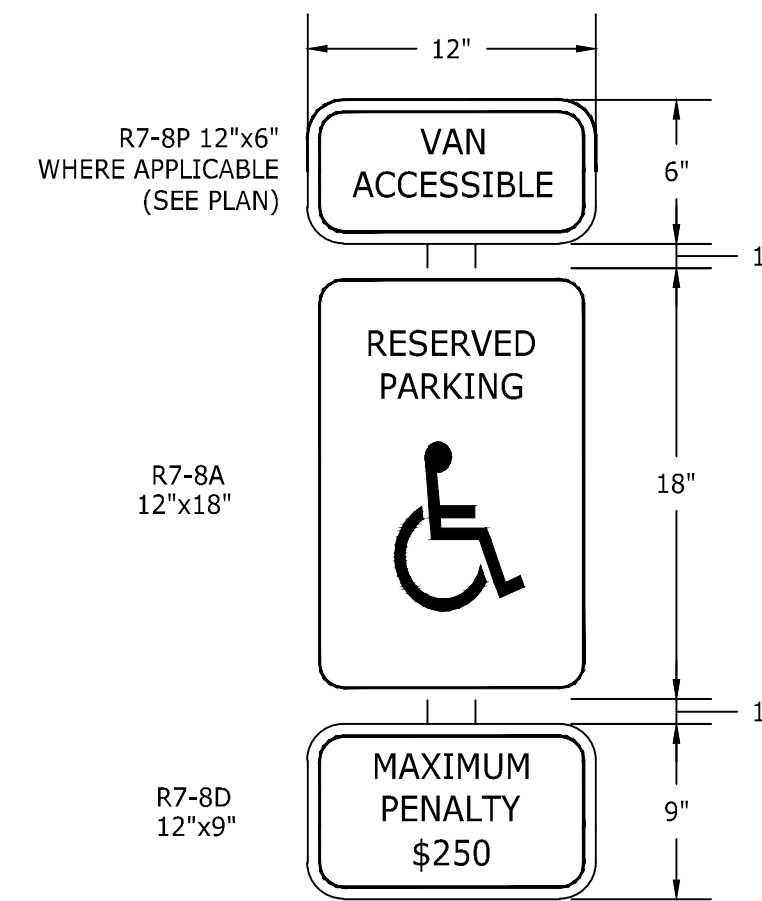
13 MUTCD STANDARD R1-1

2 TYPICAL ROADWAY SIGN

N.T.S.

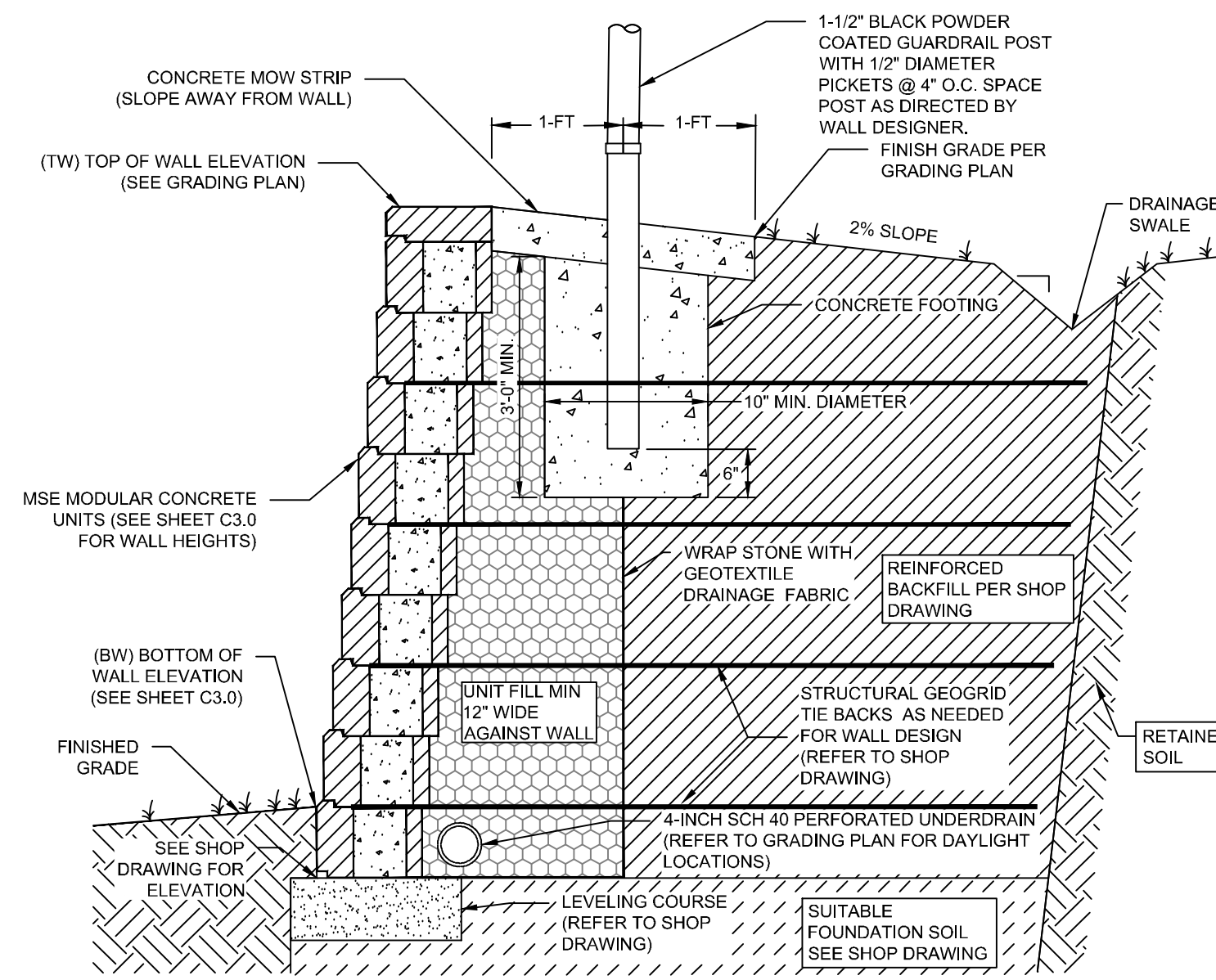


- NOTES:
 1. MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.
 2. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
 3. ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
 4. "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
 5. "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.



3 ACCESSIBLE PARKING SIGN

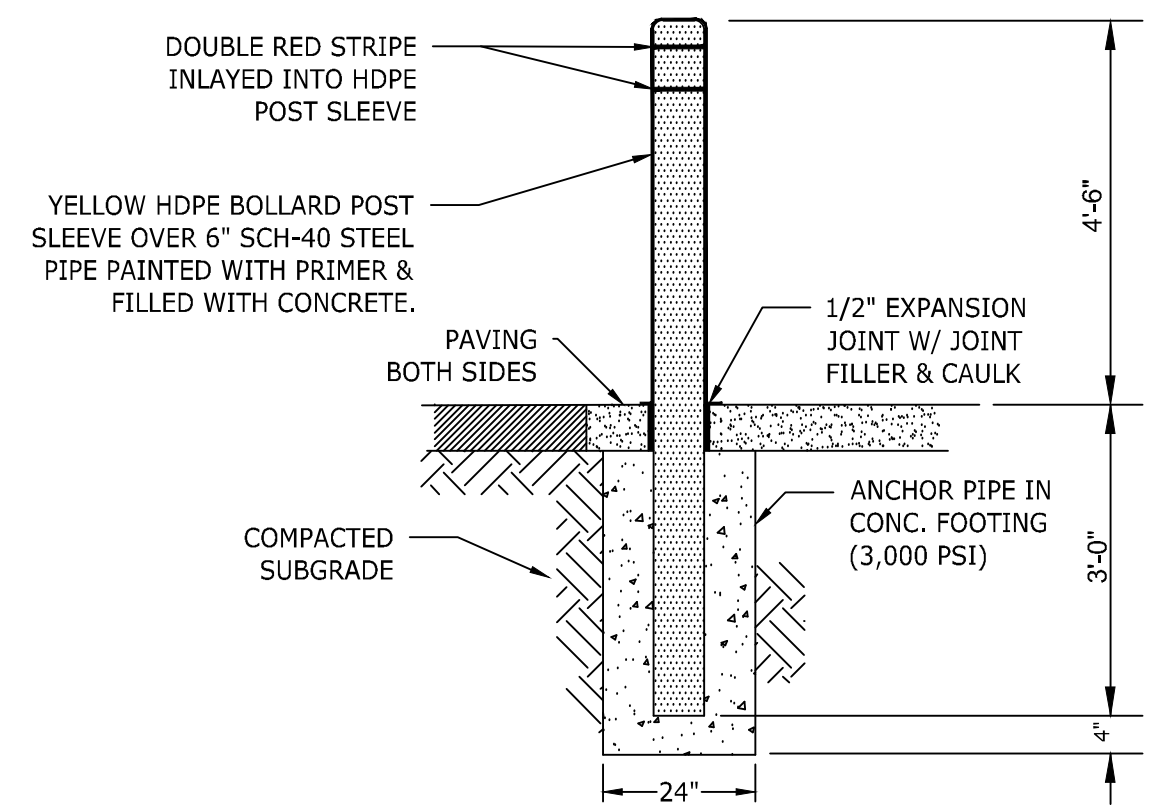
N.T.S.



- NOTES:
 1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWING OF WALL DESIGN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER (REGISTERED IN NORTH CAROLINA), FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR MUST BE CERTIFIED TO BUILD THE WALL OR HAVE LICENSE PROFESSIONAL ENGINEER CERTIFY CONSTRUCTION.
 2. FURNISH AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THE SIGNED AND SEALED RETAINING WALL SHOP DRAWING.
 3. MODULAR CONCRETE WALL UNITS SHALL CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000-PSI. UNITS SHALL HAVE STRAIGHT, SPLITFACE EXTERIOR FACE. PROVIDE CAP UNITS WITH SMOOTH TOP SURFACES. BASIS OF DESIGN BLOCK IS ANCHOR DIAMOND PRO.
 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MATERIALS IN THE REINFORCED ZONE FOR THE WALL CONSTRUCTION IN ACCORDANCE WITH THE SHOP DRAWINGS. ANY BORROW OR IMPORTED FILL MATERIAL REQUIRED FOR PROPER BACKFILLING OF THE WALL SHALL BE PROVIDED BY THE CONTRACTOR IN THE BASE BID CONTRACT. (REFER TO THE ATTACHED GEOTECHNICAL REPORT FOR EXISTING ONSITE SOILS)
 5. THE FOUNDATION SOIL (BELOW THE WALL AND GEOGRID TIE BACKS) MUST MEET THE REQUIREMENTS IN THE SHOP DRAWING. THESE SOILS WILL BE TESTED BY THE MATERIAL TESTING COMPANY HIRED BY THE OWNER. SHOULD THE SITE SOILS NOT MEET THE REQUIREMENTS CONSULT WITH THE WALL DESIGNER AND CIVIL ENGINEER PRIOR TO CONSTRUCTION.
 5.1. PROVIDE A DESIGN THAT WORKS WITH THE FOUNDATION SOILS (REFER TO ATTACHED GEOTECHNICAL REPORT).
 6. ACCOUNT FOR PREMIUM COLOR BLOCK IN THE BID. BASIS OF DESIGN COLOR IS ANCHOR DIAMOND PRO PLANTATION.
 7. REFER TO WALL MANUFACTURERS SPECIFICATIONS AND GEOTECHNICAL ENGINEERING REPORT BY TIMMONS GROUP, DATED MARCH 10, 2023, INCLUDING OTHER ACCEPTABLE MSE WALL SYSTEMS BASED ON OWNER APPROVAL.

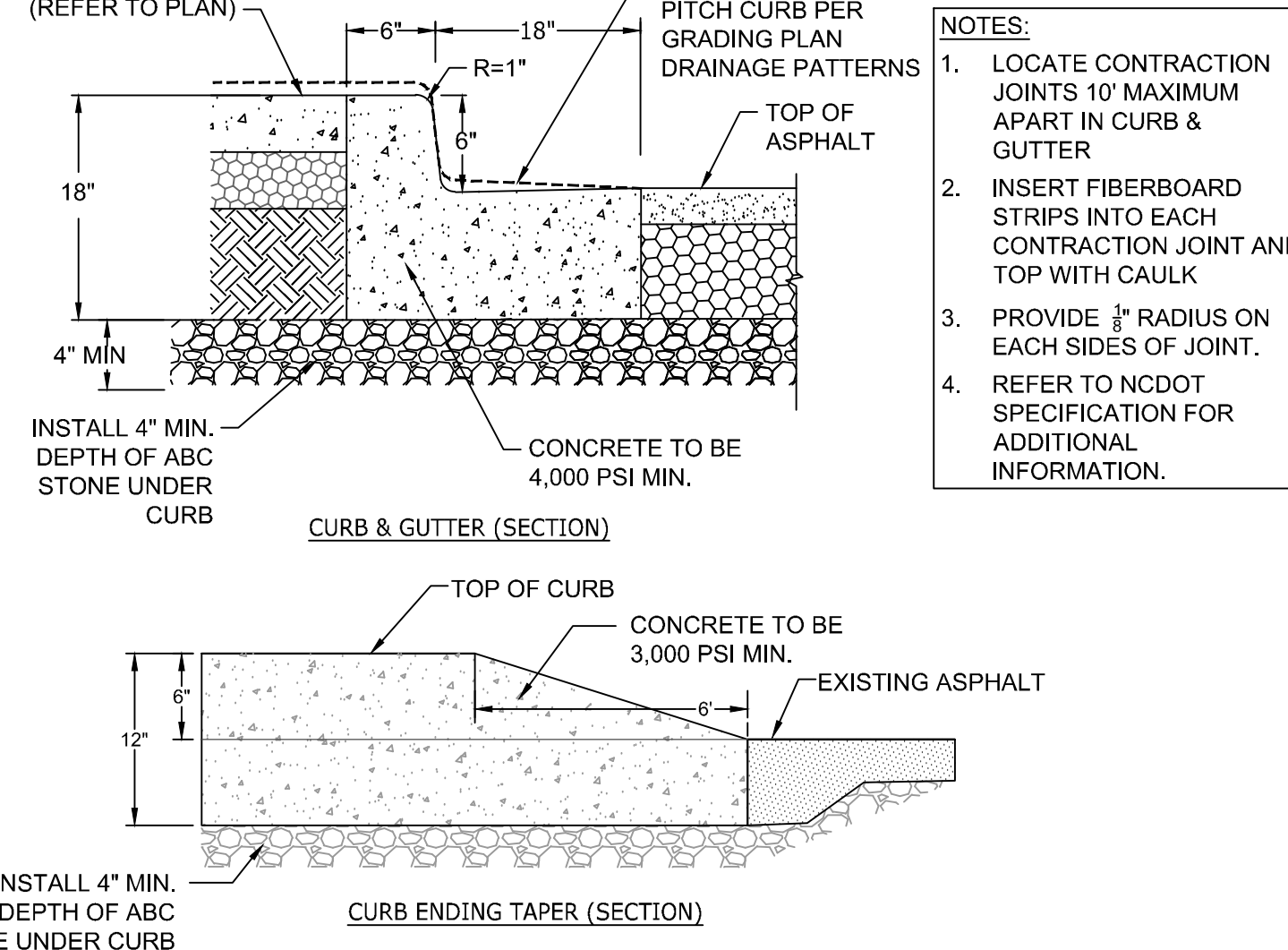
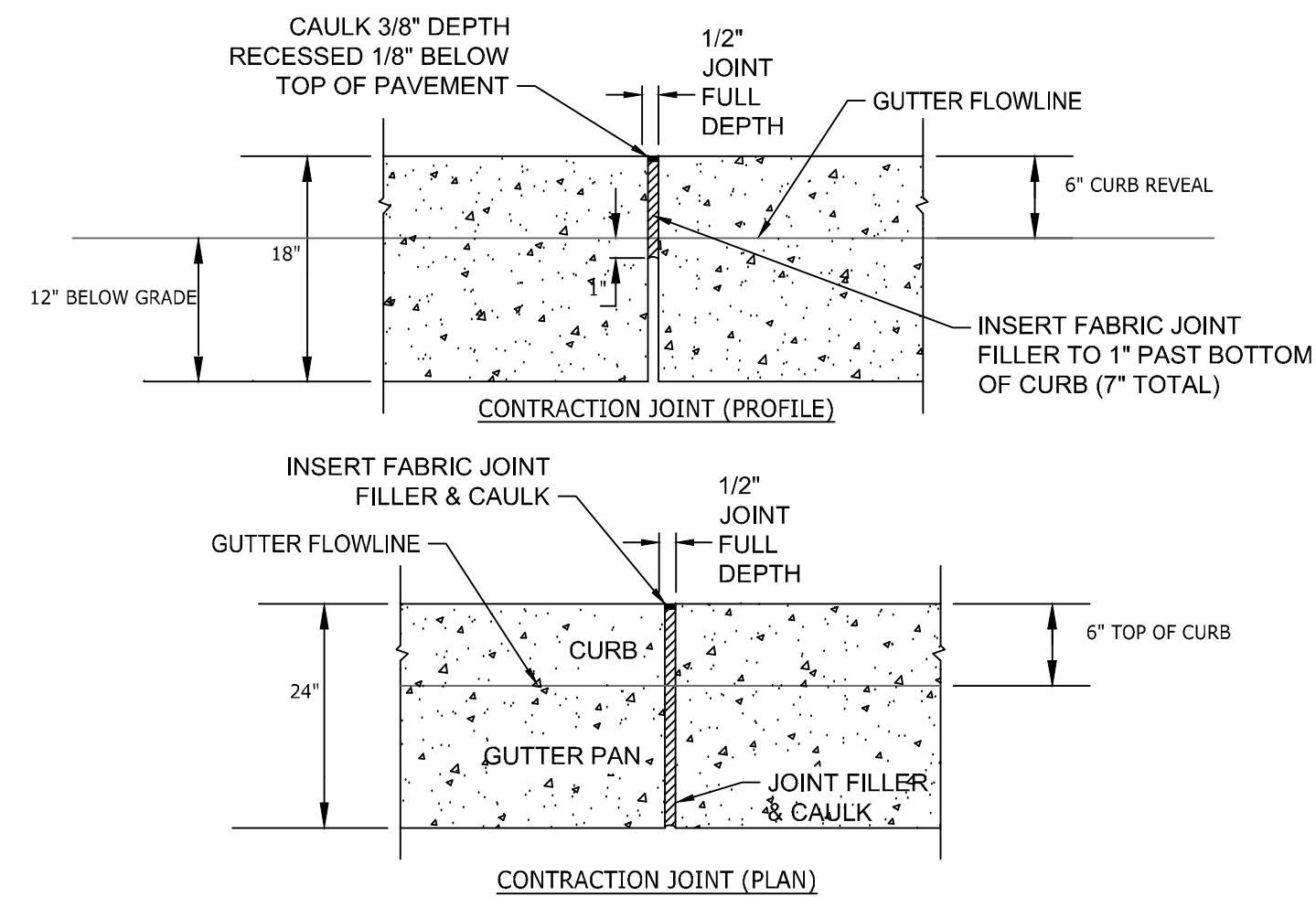
4 MODULAR BLOCK RETAINING WALL WITH BLACK SAFETY FENCE

N.T.S.



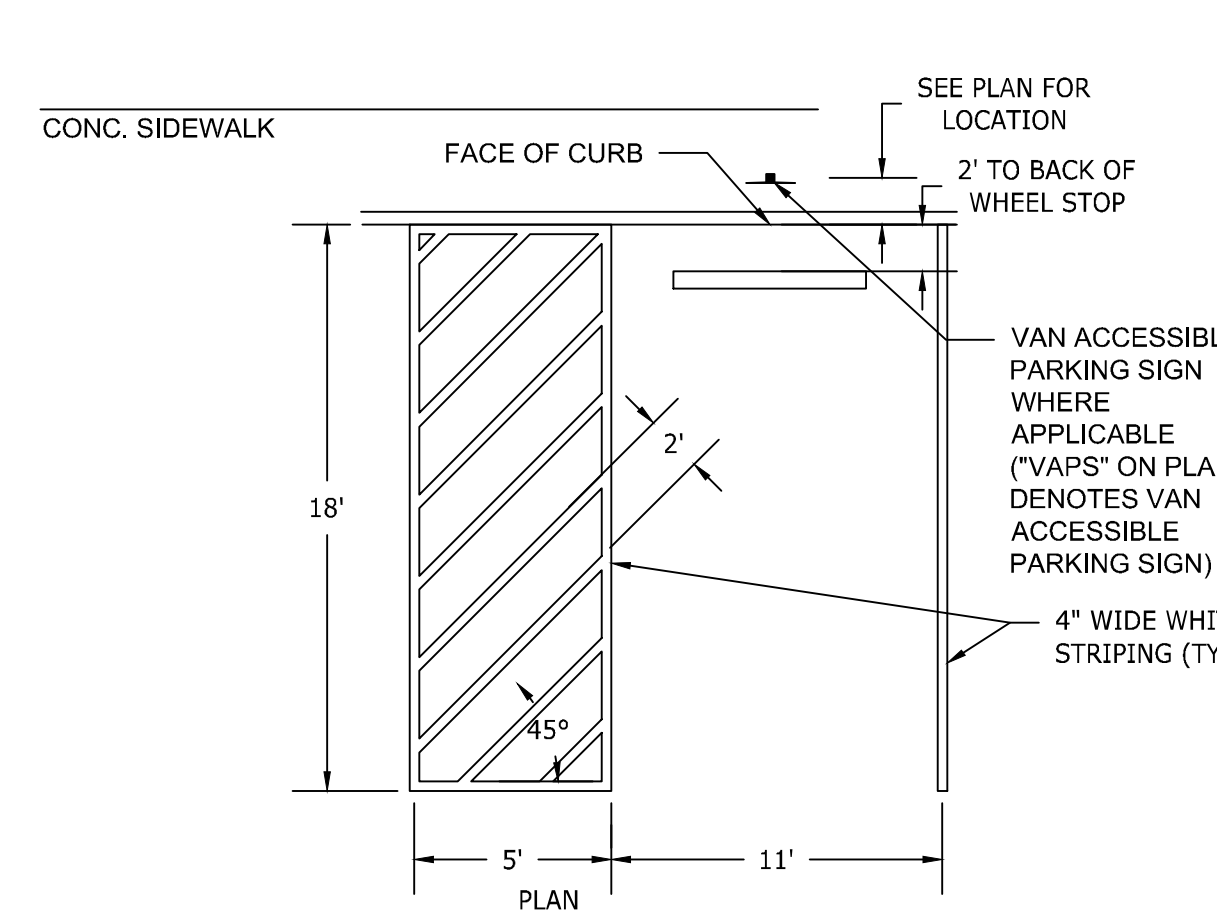
5 6" STEEL BOLLARD w/ HDPE SLEEVE

N.T.S.



6 24" CONCRETE CURB & GUTTER

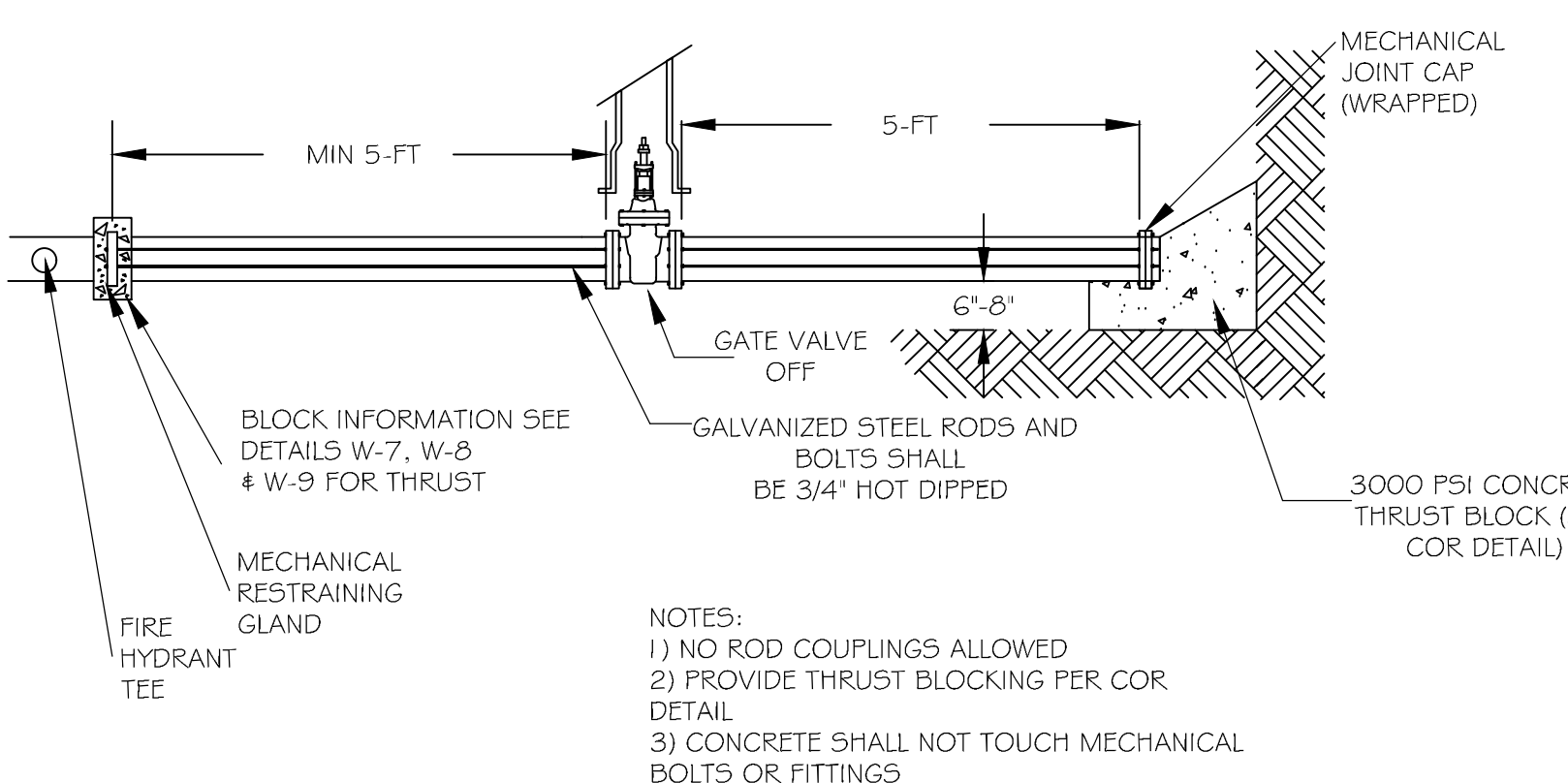
N.T.S.



- NOTE:
 1. ALL PARKING STALL MARKINGS SHALL BE 2 COATS 15-ml THICK ALKYD RESIN PAINT.

7 ACCESSIBLE PARKING SPACE LAYOUT

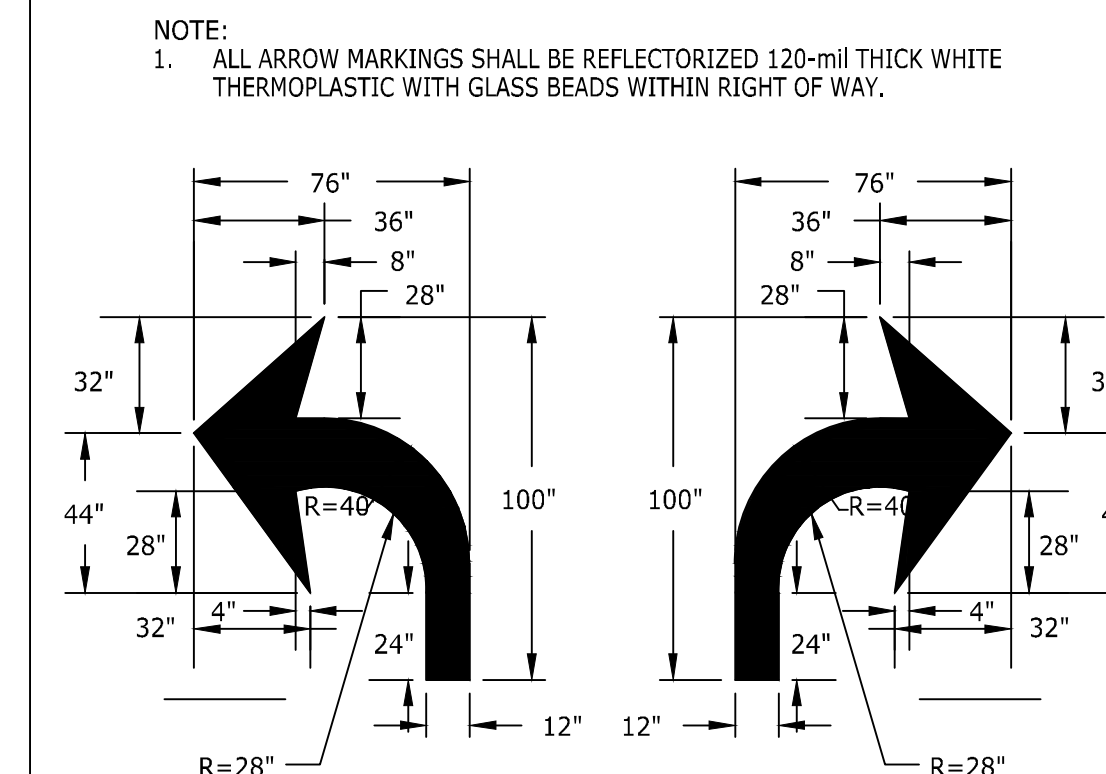
N.T.S.



- NOTES:
 1) NO ROD COUPLINGS ALLOWED
 2) PROVIDE THRUST BLOCKING PER COR DETAIL
 3) CONCRETE SHALL NOT TOUCH MECHANICAL BOLTS OR FITTINGS

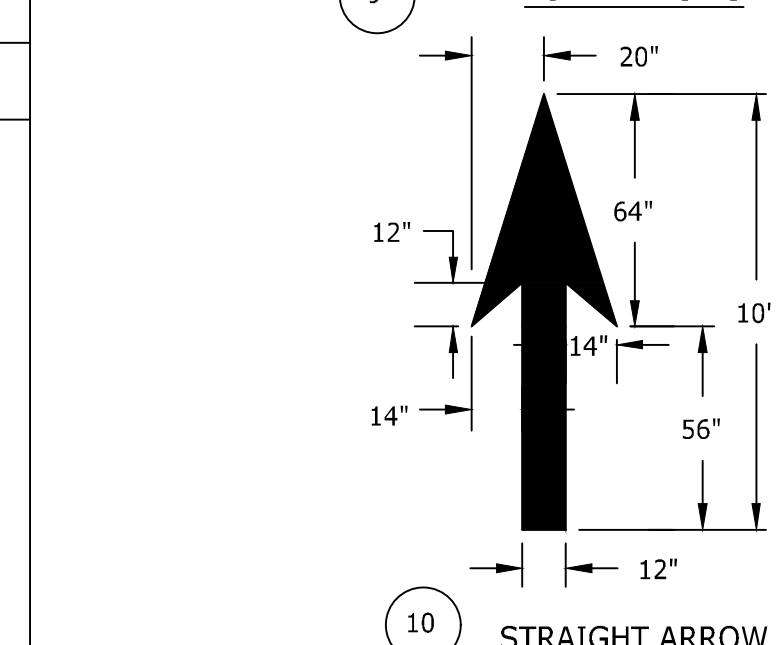
8 FIRE LINE CAPPING DETAIL

N.T.S.



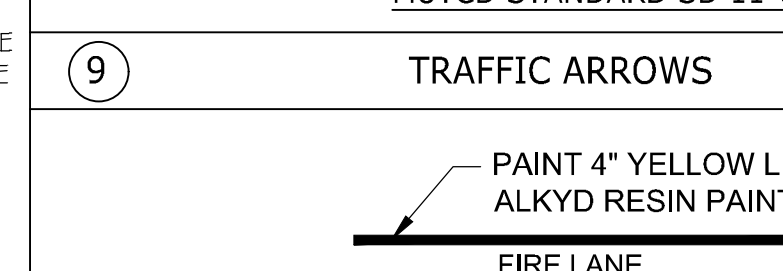
9 TURN ARROWS

MUTCD STANDARD SD 11-03



10 STRAIGHT ARROW

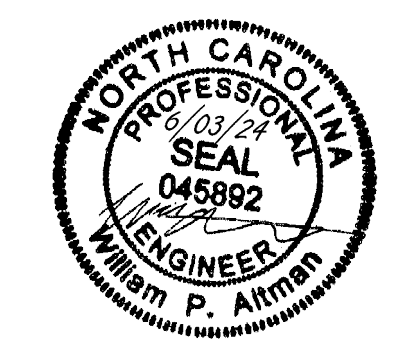
MUTCD STANDARD SD 11-03



** FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "FIRE LANE" AT 50' INTERVALS.

10 FIRE LANE MARKINGS

N.T.S.



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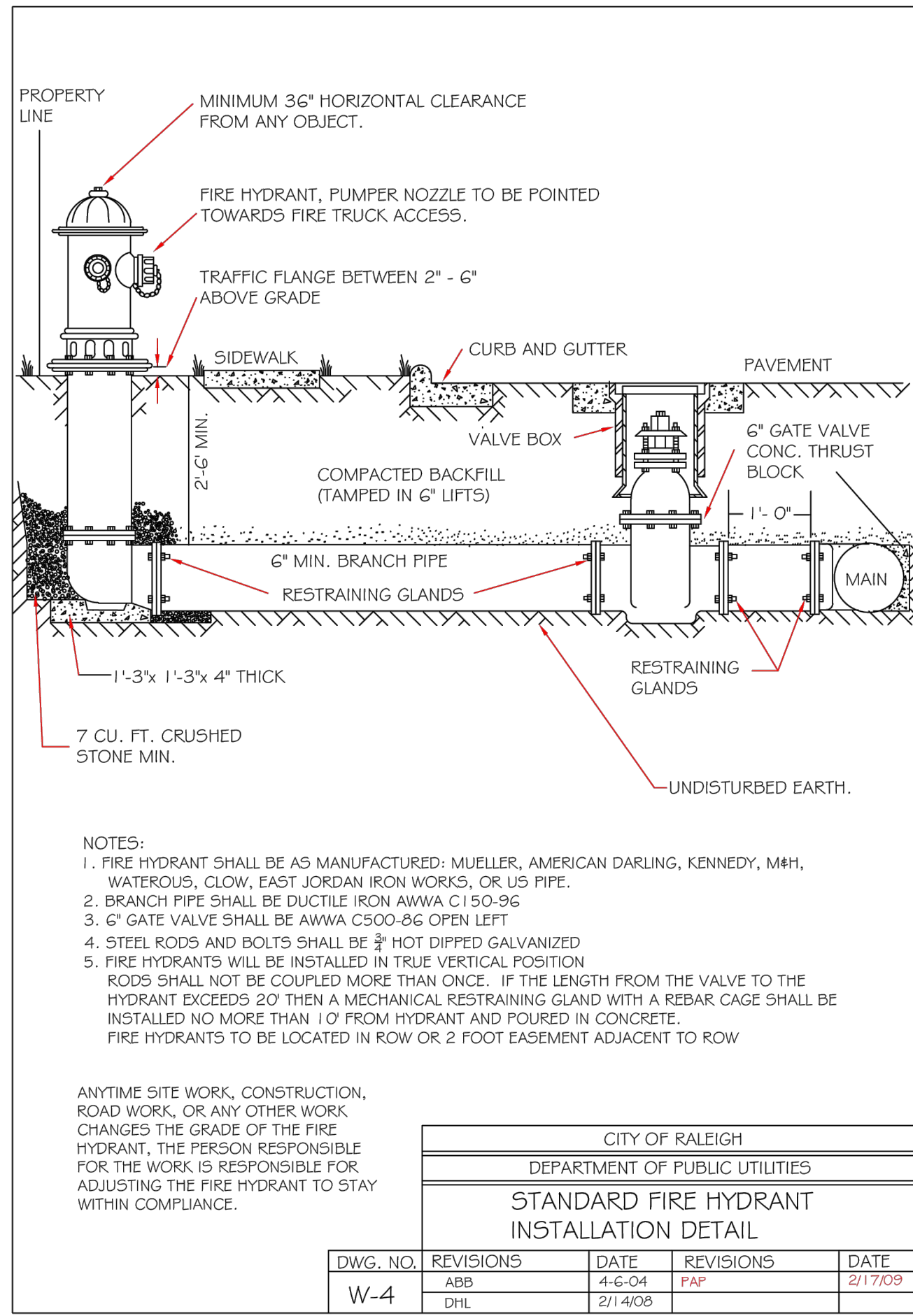
DATE	REVISION DESCRIPTION
08/07/2023	ADDRESSSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/07/2023	ADDRESSSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSSED NCDOT REVIEW COMMENTS
05/01/2024	ADDRESSSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 SITE DETAILS

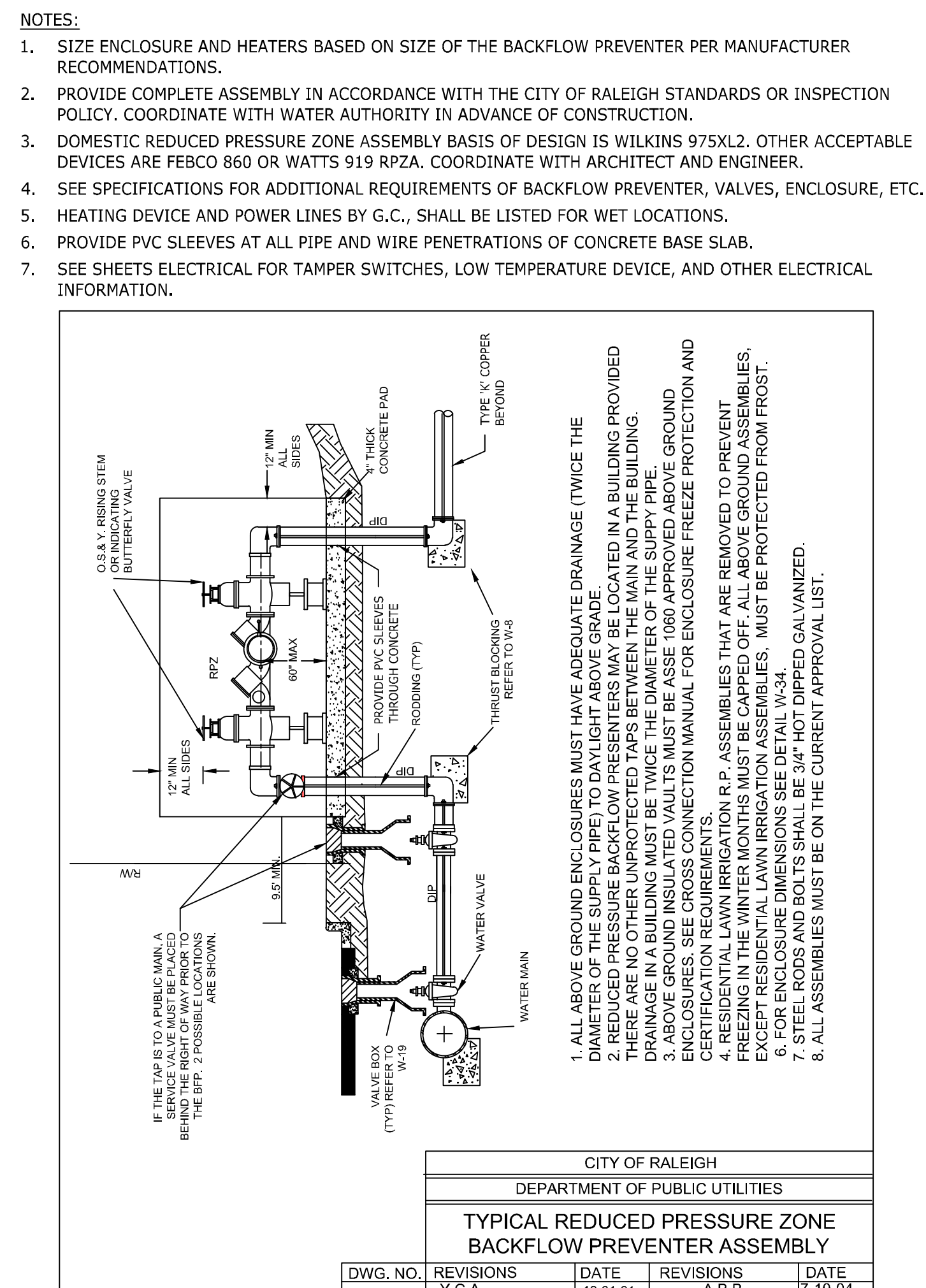
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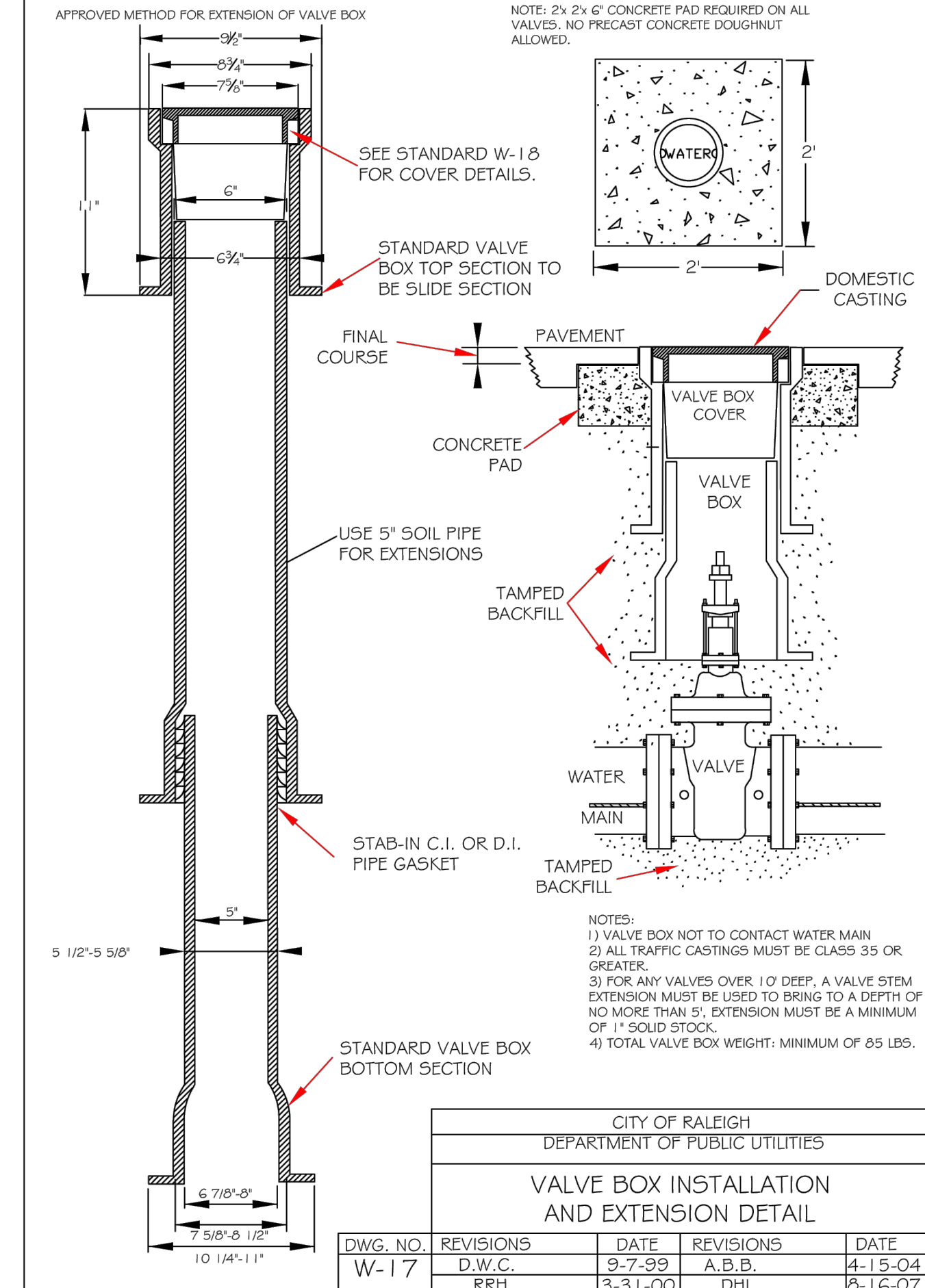
- NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, MH1, WATERLOUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
 2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
 3. 6\"/>

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD FIRE HYDRANT INSTALLATION DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4	ABB DHL	4-6-04 2/14/03	PAP	2/17/03

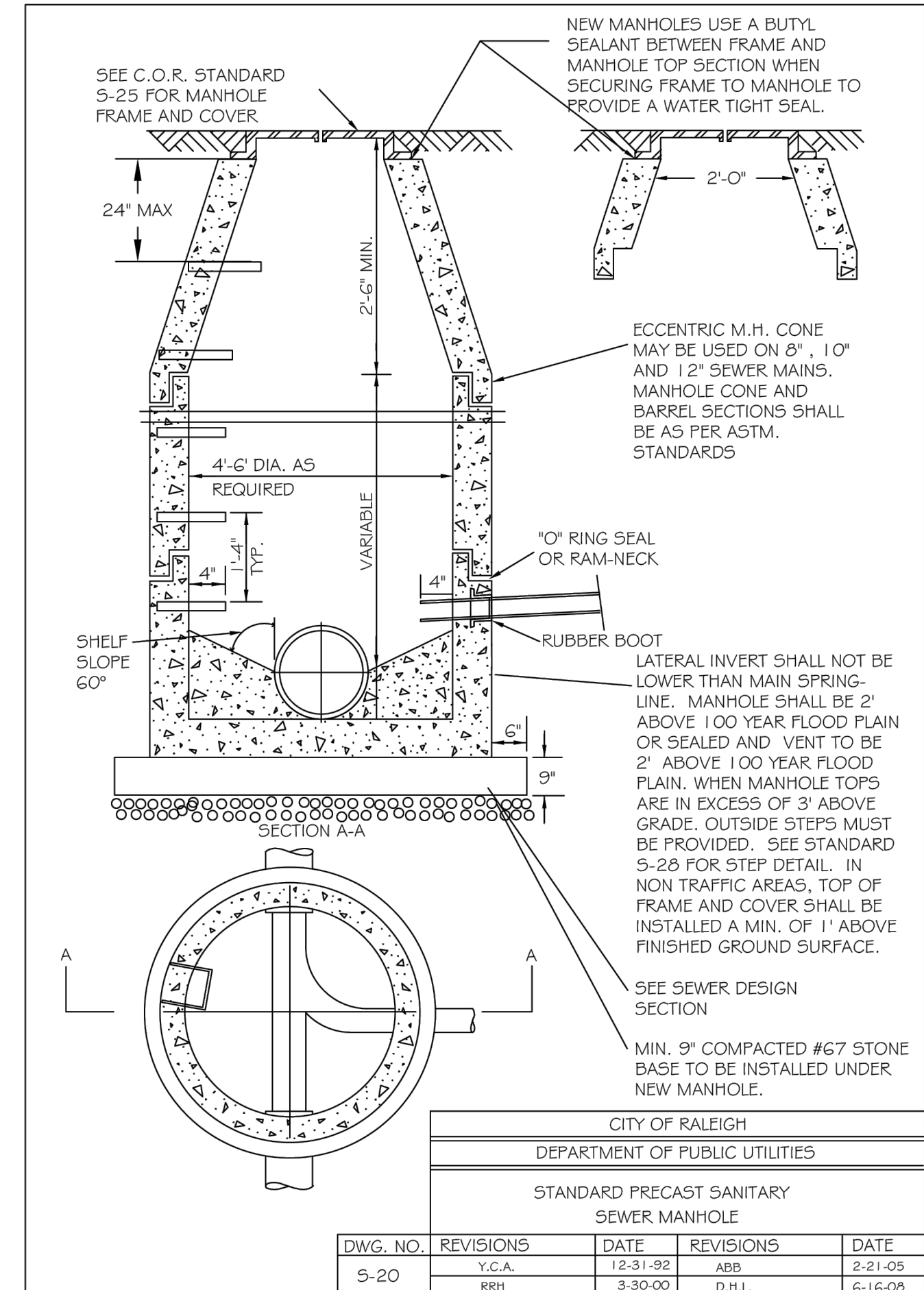


- NOTES:
1. ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE (TWICE THE DRAINAGE OF THE DEVICE) TO PREVENT FLOODING IN THE EVENT OF A LEAK.
 2. ALL ABOVE GROUND ENCLOSURES MUST BE PROTECTED FROM VEHICULAR TRAFFIC AND MUST BE PROTECTED FROM VEHICULAR DAMAGE.
 3. ABOVE GROUND INSULATED VAULTS MUST BE ASSE 1080 APPROVED ABOVE GROUND ENCLOSURES. SEE CURRENT CONNECTION MANUAL FOR ENCLOSURE FREEZE PROTECTION AND PRESERVATION INFORMATION.
 4. PRESIDENTIAL LAWN IRRIGATION R.P. ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING IN THE WINTER MONTHS MUST BE CAPPED OFF. ALL ABOVE GROUND ASSEMBLIES EXCEPT RESIDENTIAL LAWN IRRIGATION ASSEMBLIES, MUST BE PROTECTED FROM FROST.
 5. FOR ENCLOSURE DIMENSIONS SEE DETAIL W-36.
 6. ALL ENCLOSURE DIMENSIONS SHALL BE HOT DIPPED GALVANIZED.
 7. ALL ENCLOSURE DIMENSIONS SHALL BE HOT DIPPED GALVANIZED.
 8. ALL ASSEMBLIES MUST BE ON THE CURRENT APPROVAL LIST.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES TYPICAL REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-36	Y.C.A. D.W.C.	12-31-91 11-8-99	A.B.B. D.H.L.	7-10-04 6/18/08



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES VALVE BOX INSTALLATION AND EXTENSION DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-17	D.W.C. RRH	9-7-99 3-31-00	A.B.B. DHL	4-15-04 2-16-07



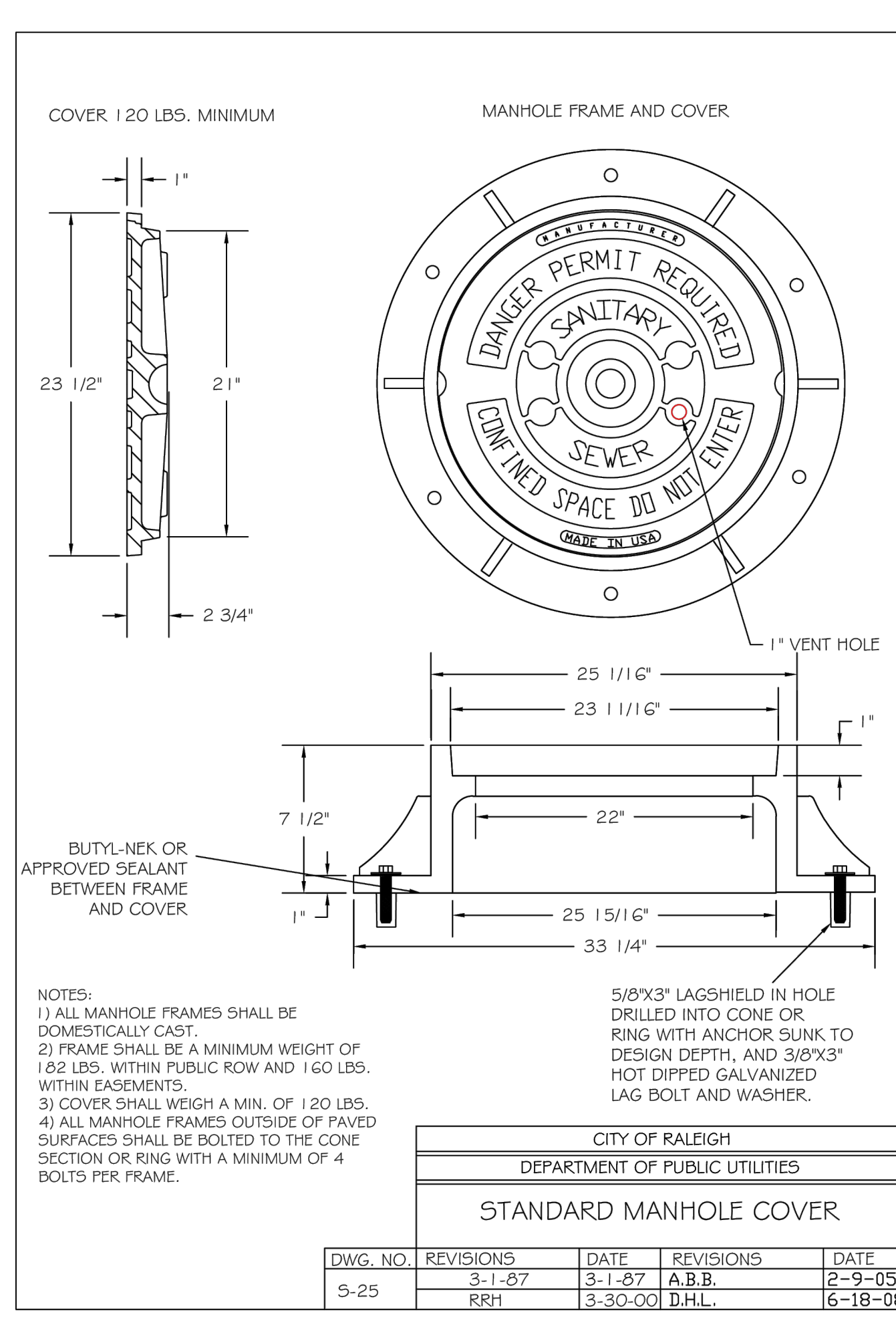
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD PRECAST SANITARY SEWER MANHOLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20	Y.C.A. RRH	12-31-92 3-30-00	ABB D.H.L.	2-21-05 6-16-08

1 FIRE HYDRANT ASSEMBLY N.T.S.

2 1.5\"/>

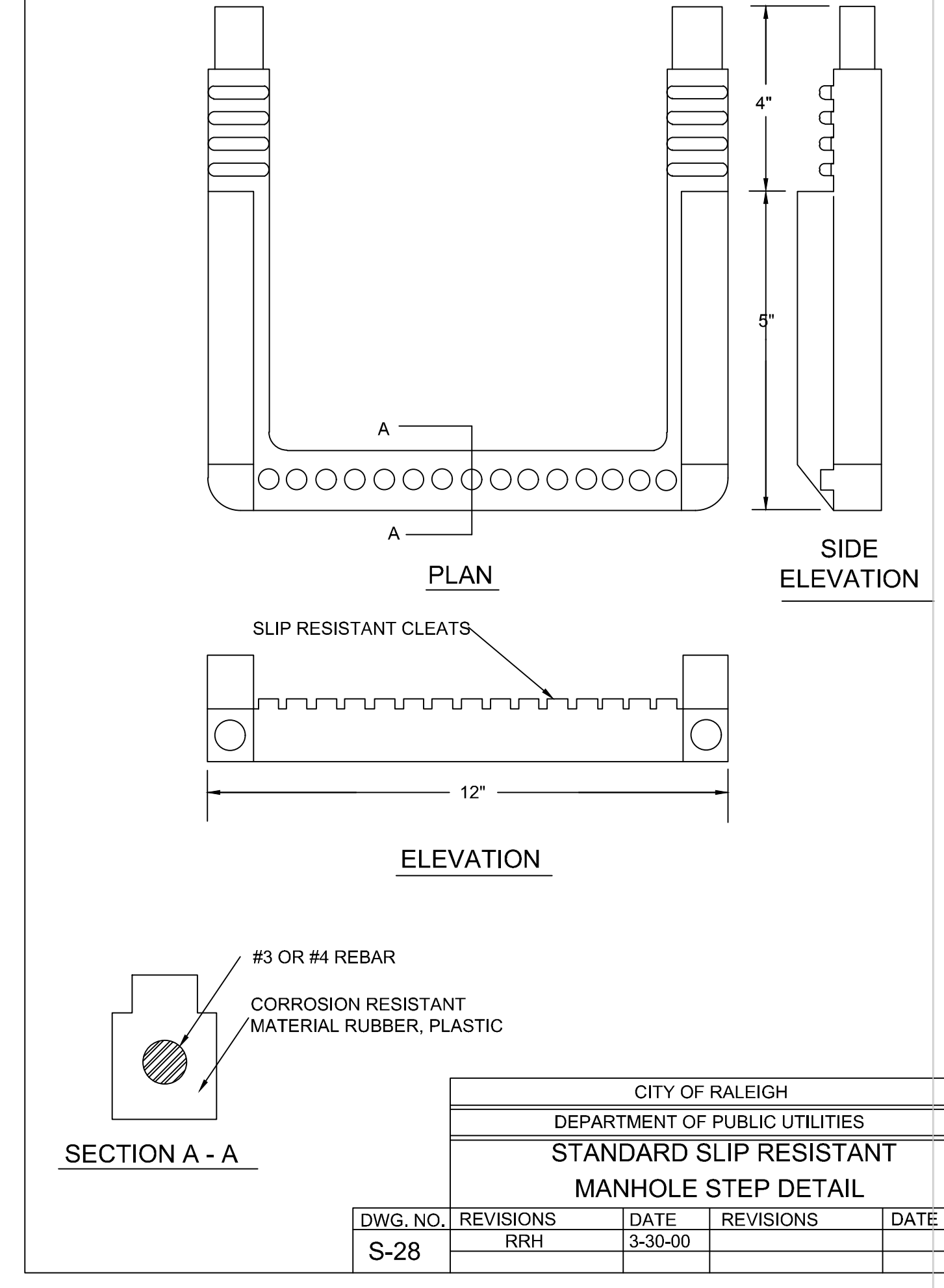
3 GATE VALVE ASSEMBLY N.T.S.

4 SANITARY SEWER MANHOLE N.T.S.



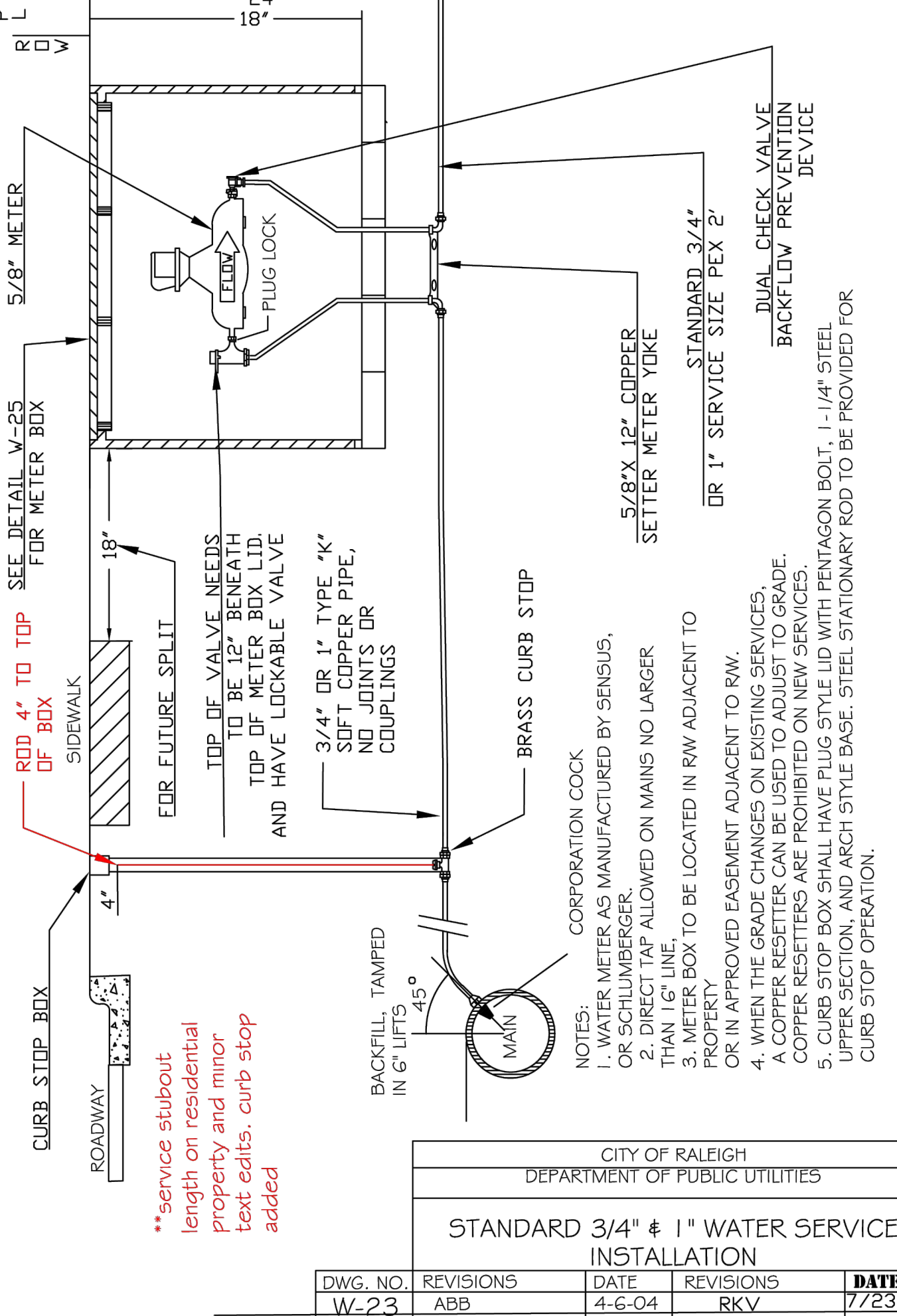
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD MANHOLE COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25	3-1-87 RRH	3-1-87 3-30-00	A.B.B. D.H.L.	2-9-05 6-18-08

5 SANITARY SEWER MANHOLE RING & COVER N.T.S.



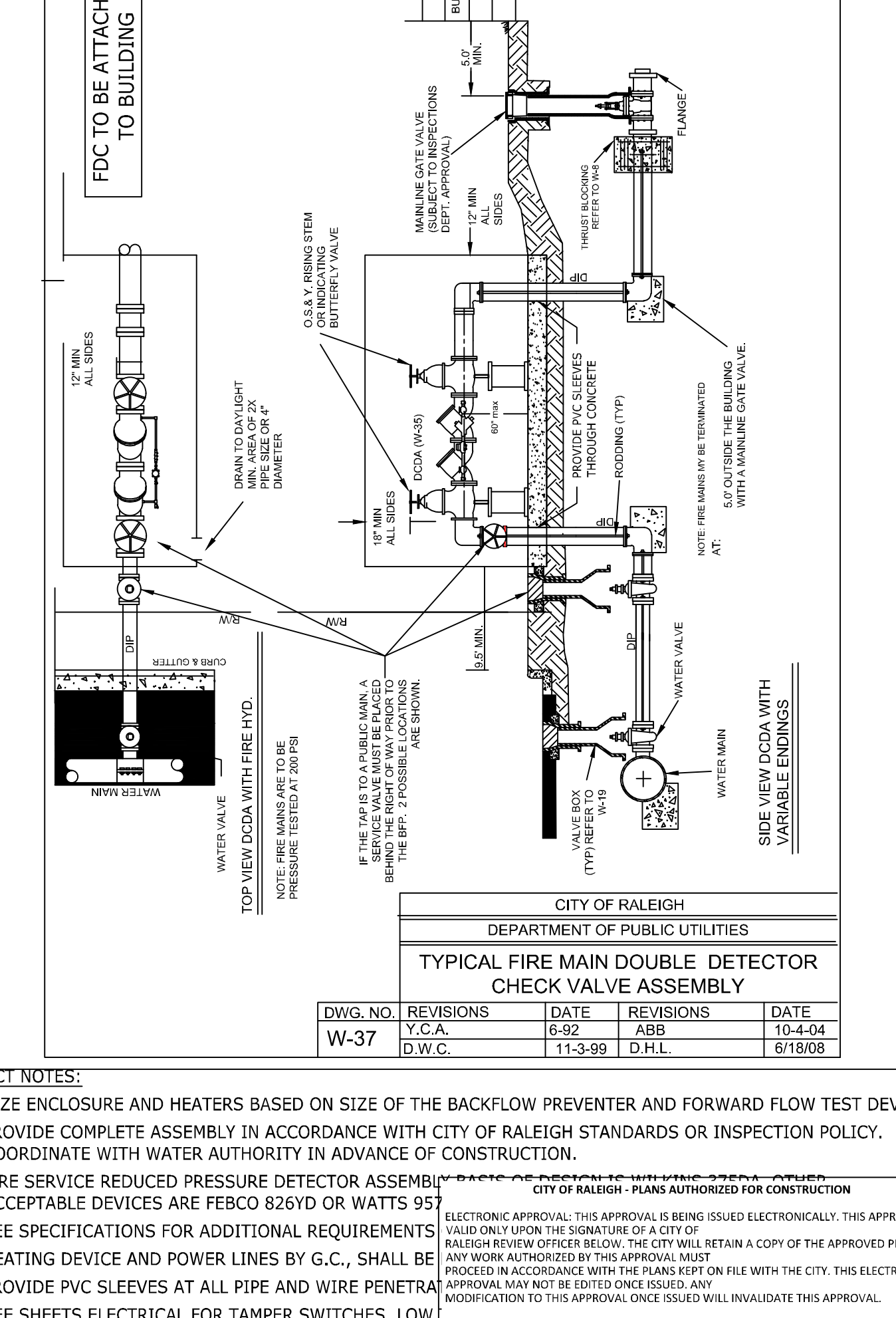
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD SLIP RESISTANT MANHOLE STEP DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-28	RRH	3-30-00		

6 MANHOLE STEPS N.T.S.



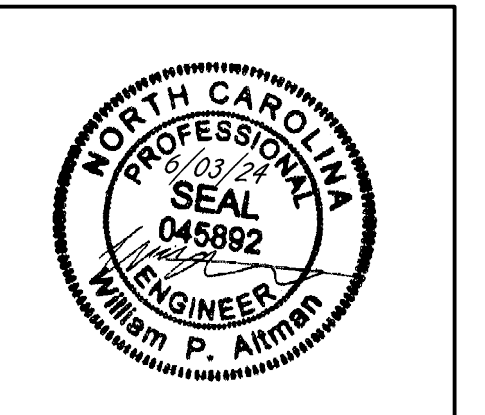
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD 3/4\"/>				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-23	ABB D.H.L.	4-6-04 6/19/08	RKV	7/23/13

7 1.5\"/>



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES TYPICAL FIRE MAIN DOUBLE DETECTOR CHECK VALVE ASSEMBLY				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-37	Y.C.A. D.W.C.	6-92 11-3-99	ABB D.H.L.	10-4-04 6/18/08

8 FIRE SERVICE BACKFLOW (6\"/>



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 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

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NORTH CAROLINA LICENSE NO. C-1652

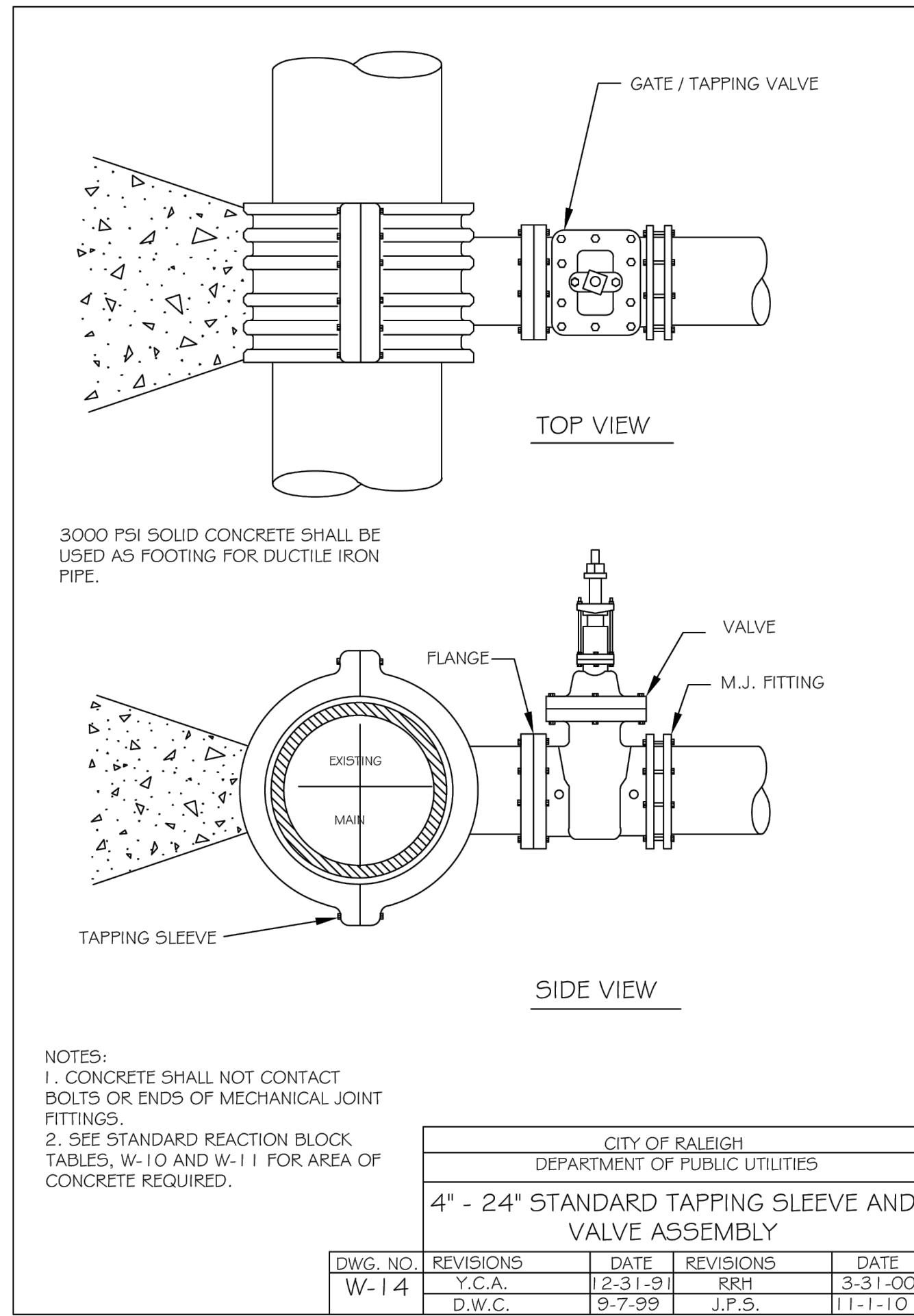
JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SITE DETAILS

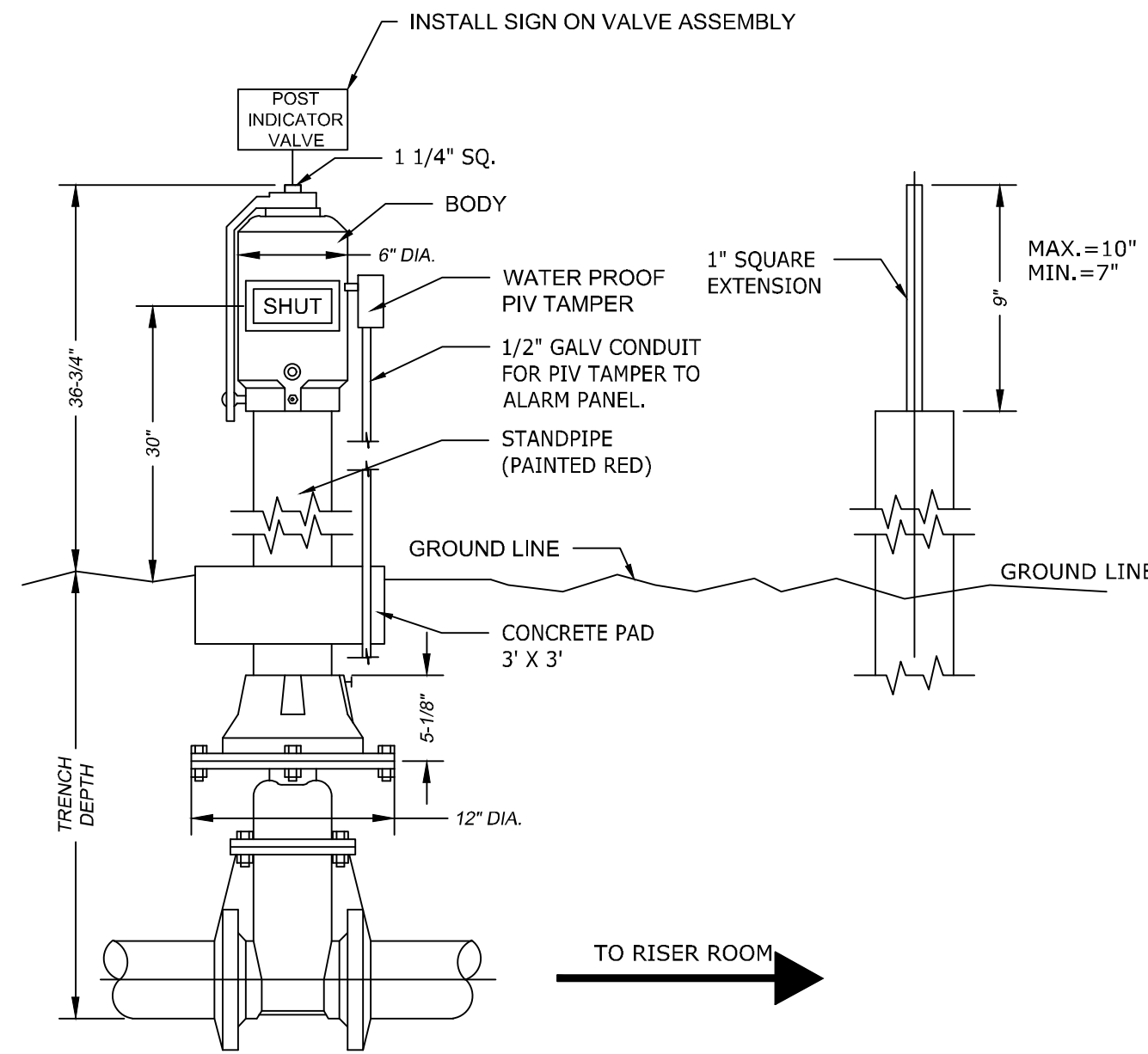
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JOB NO.	SHEET NO.
54832	C6.3



① TAPPING SLEEVE w/ GATE VALVE

N.T.S.

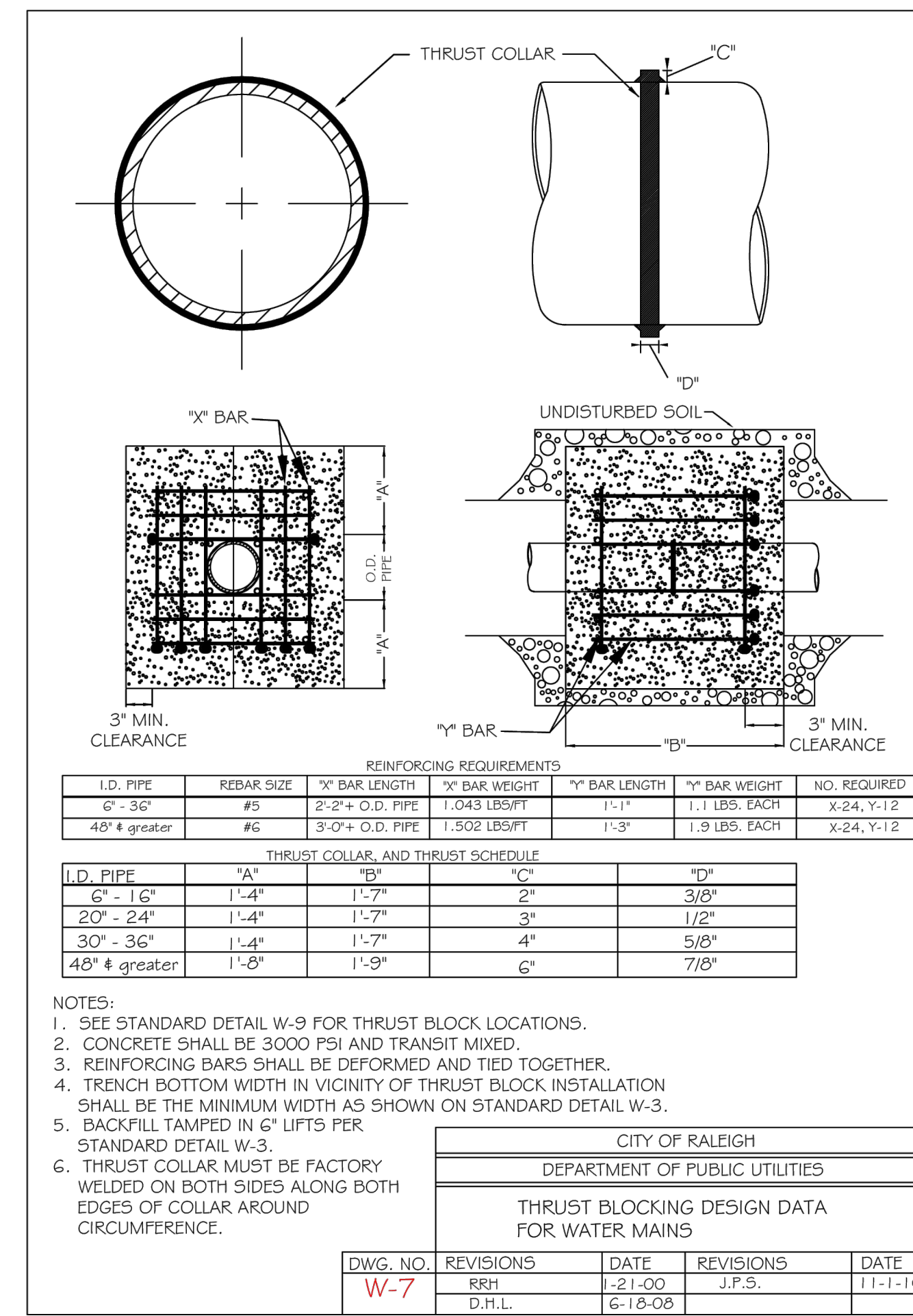


FIELD ADJUSTMENT INSTRUCTIONS

1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL PIV(S) SHALL BE INSTALLED WITH AN ELECTRONICALLY CONTROLLED TAMPER SWITCH.

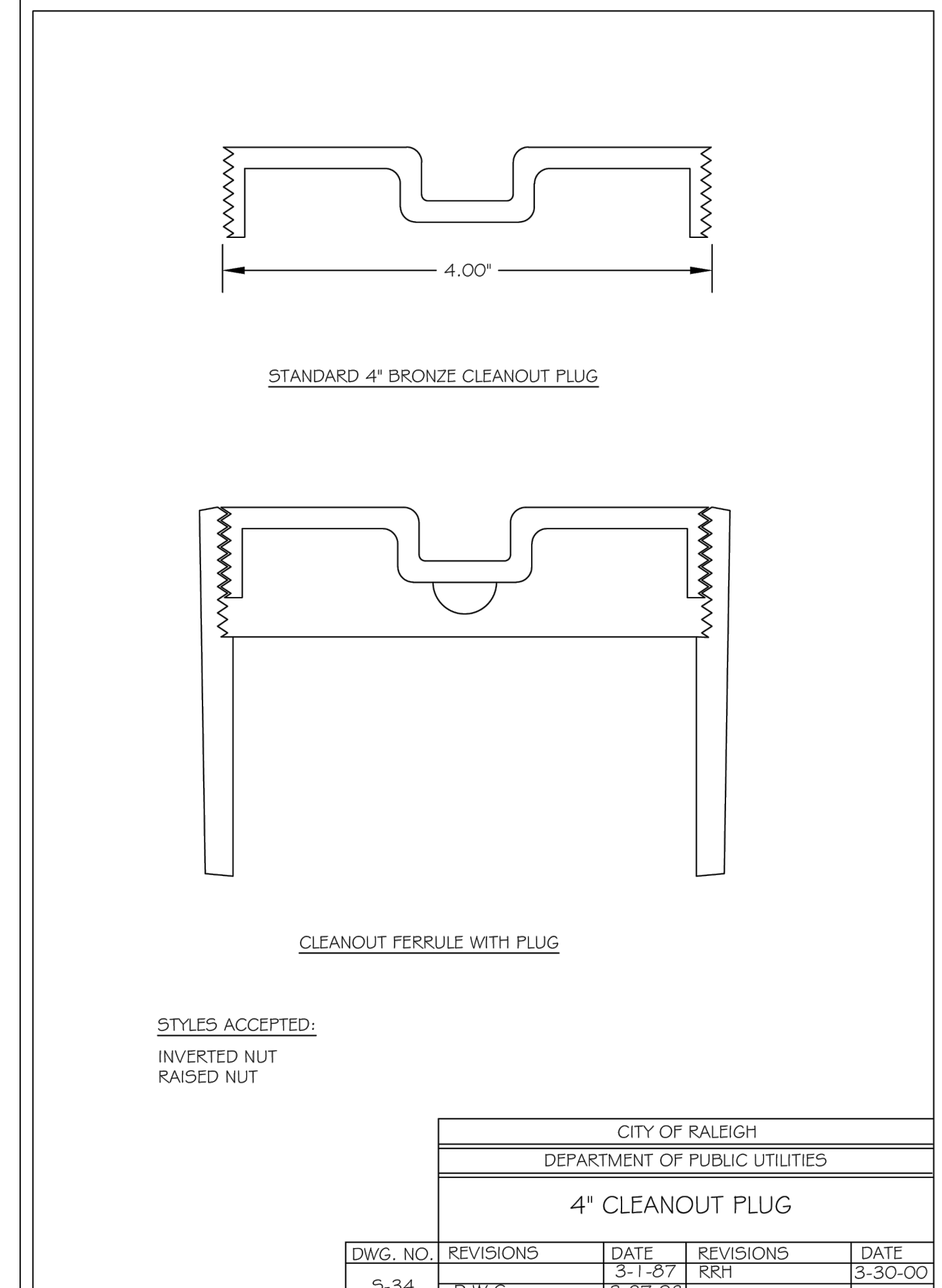
② POST INDICATOR VALVE ASSEMBLY

N.T.S.



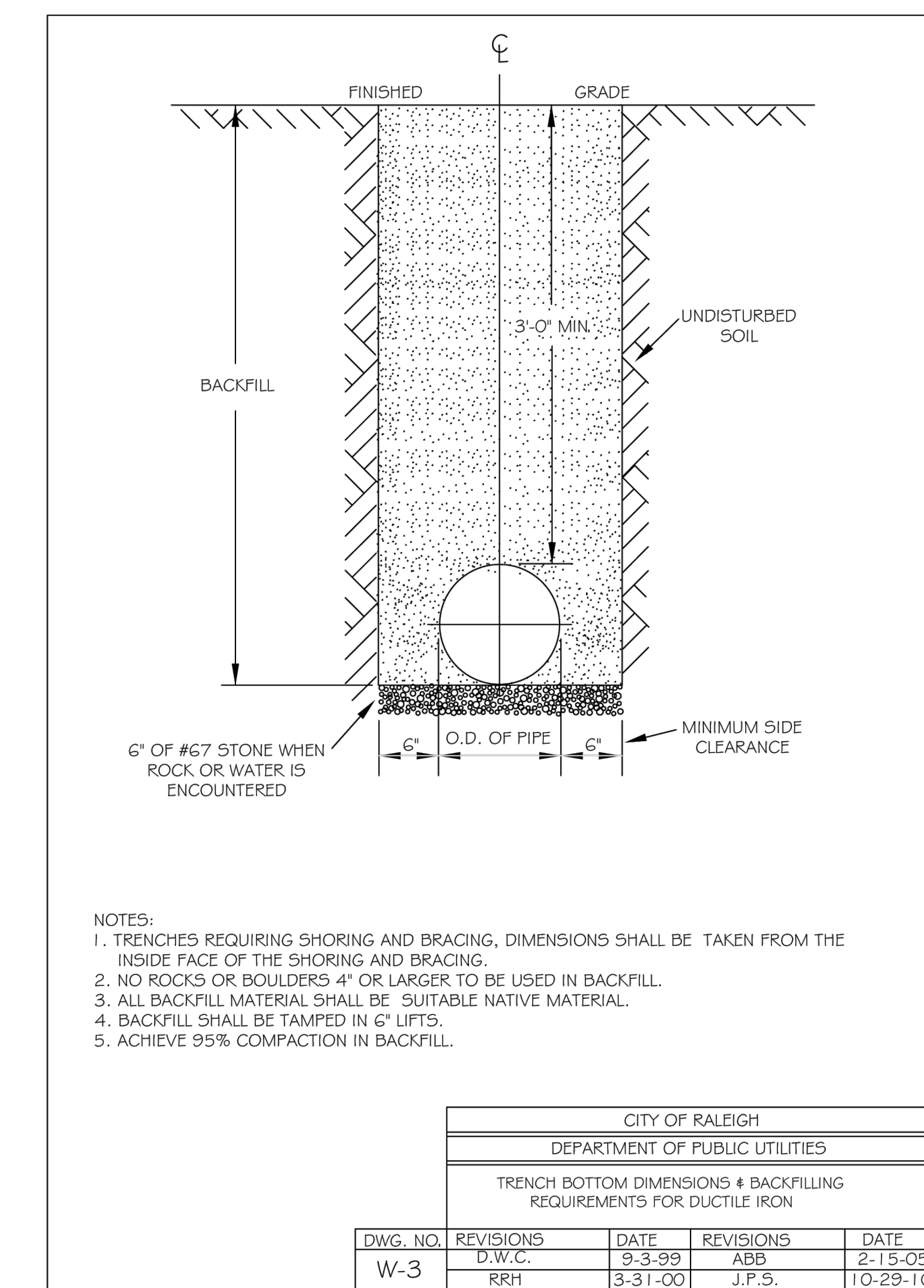
③ THRUST BLOCKING

N.T.S.



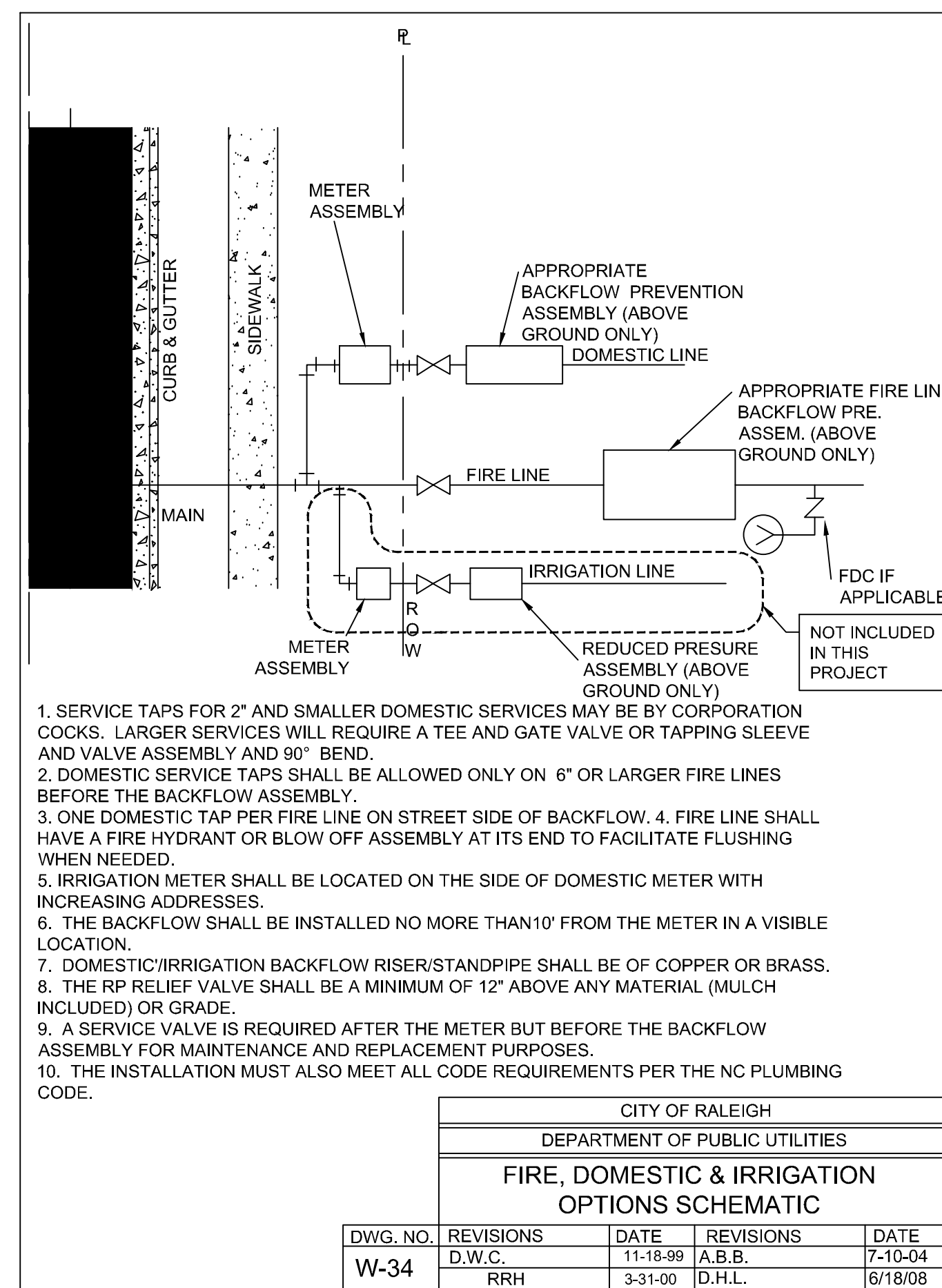
④ SANITARY SEWER CLEANOUT

N.T.S.



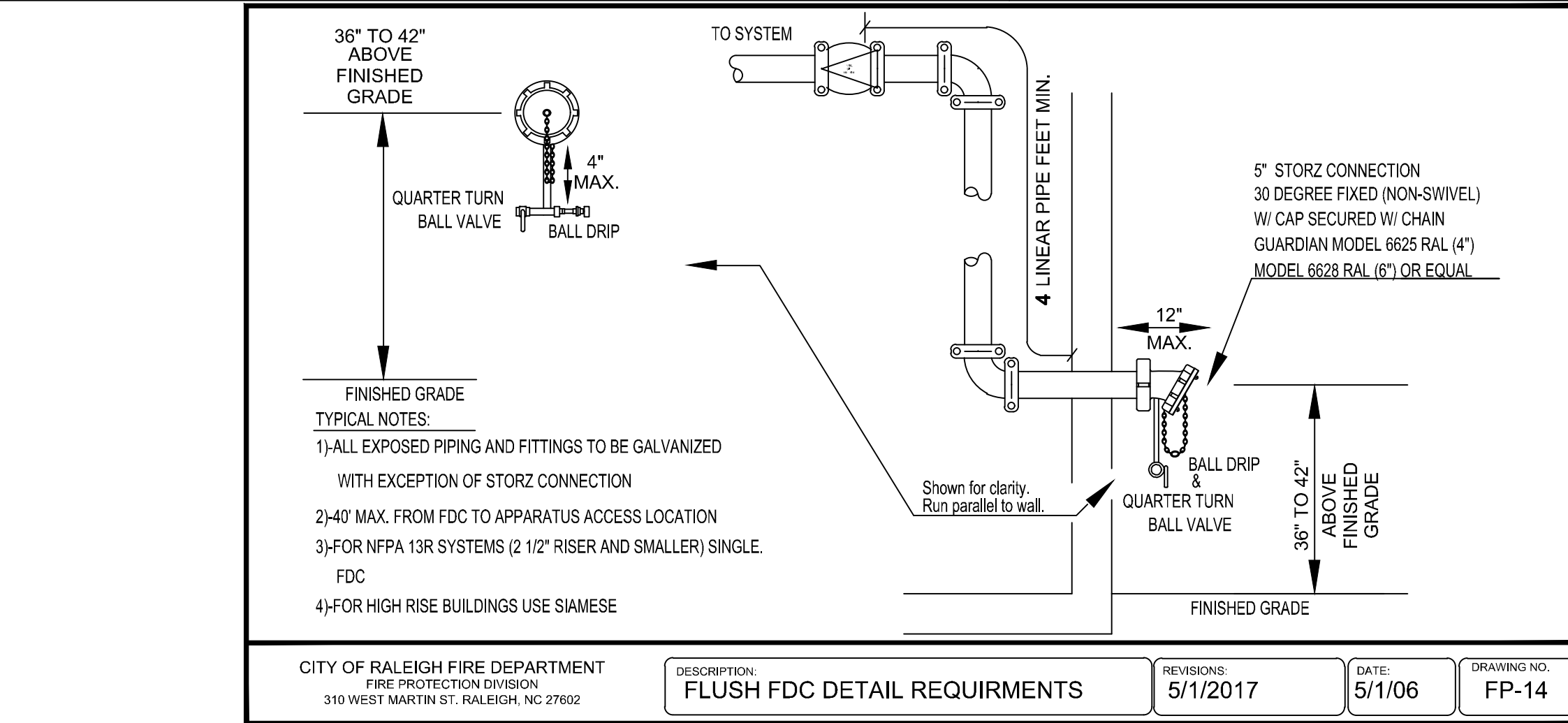
⑤ UTILITY TRENCHING AND BACKFILL

N.T.S.



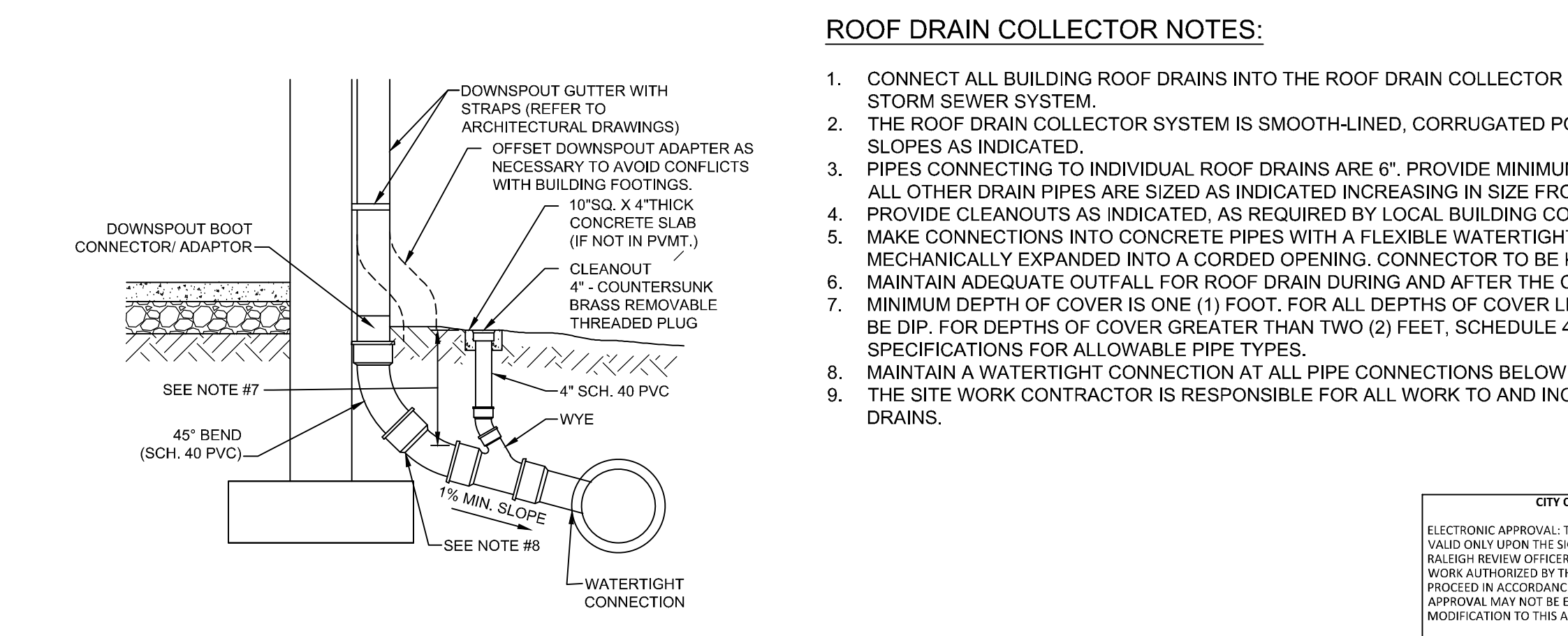
⑥ FIRE, DOMESTIC, & IRRIGATION OPTIONS

N.T.S.



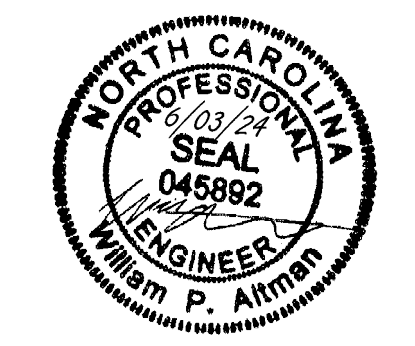
⑦ WALL MOUNTED FDC (STORZ)

N.T.S.



⑧ 4" X 5" DOWNSPOUT BOOT CONNECTOR

N.T.S.



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04/05/2023	L. BARNES

DATE	DESIGNED BY
	W. ALTMAN

DATE	CHECKED BY
	W. ALTMAN

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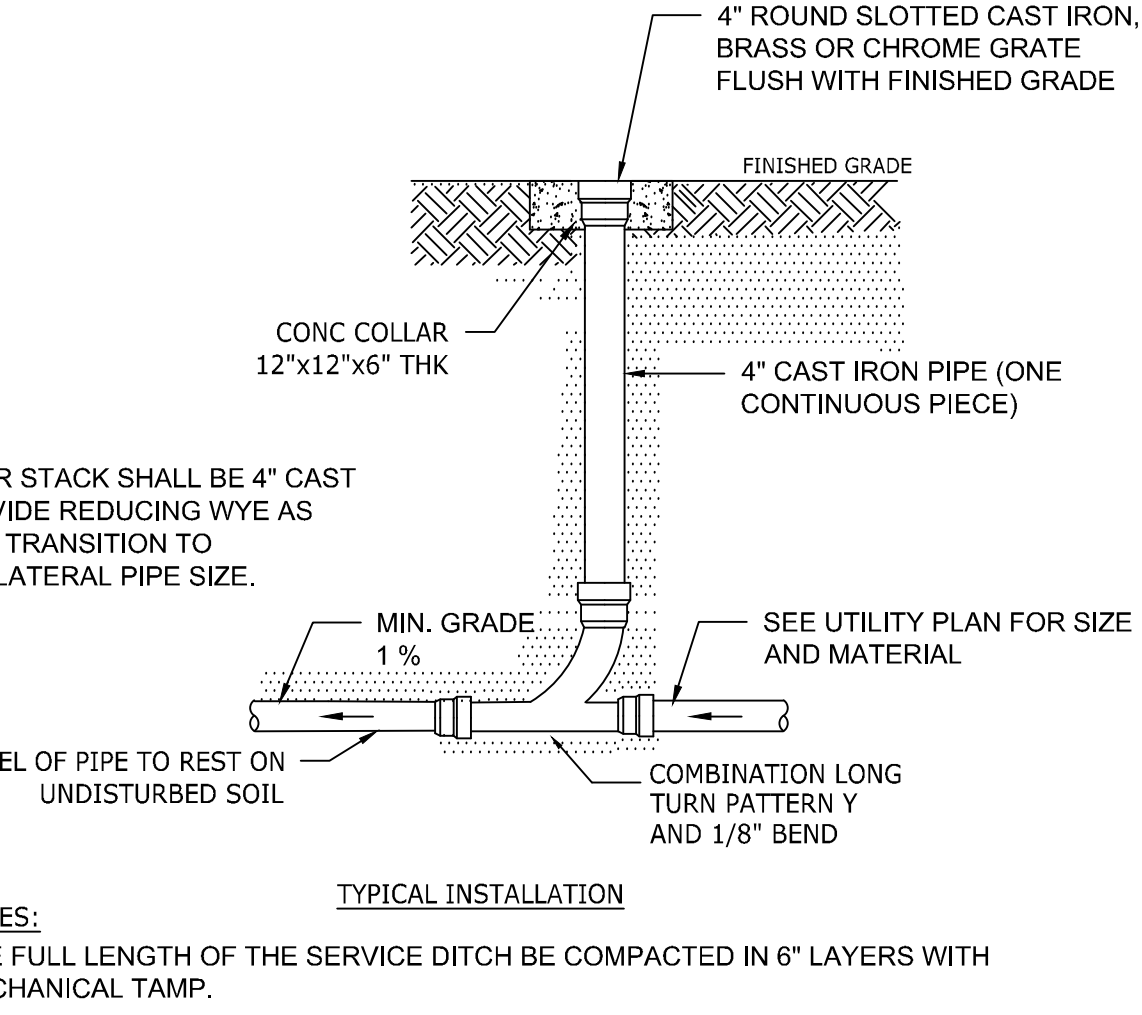
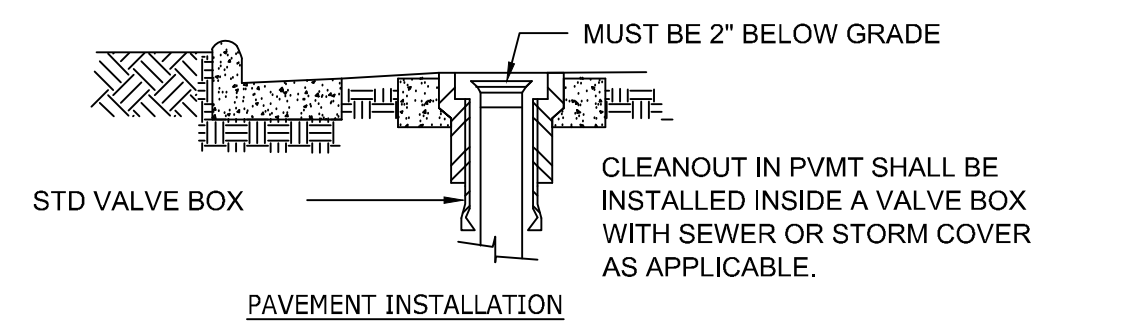
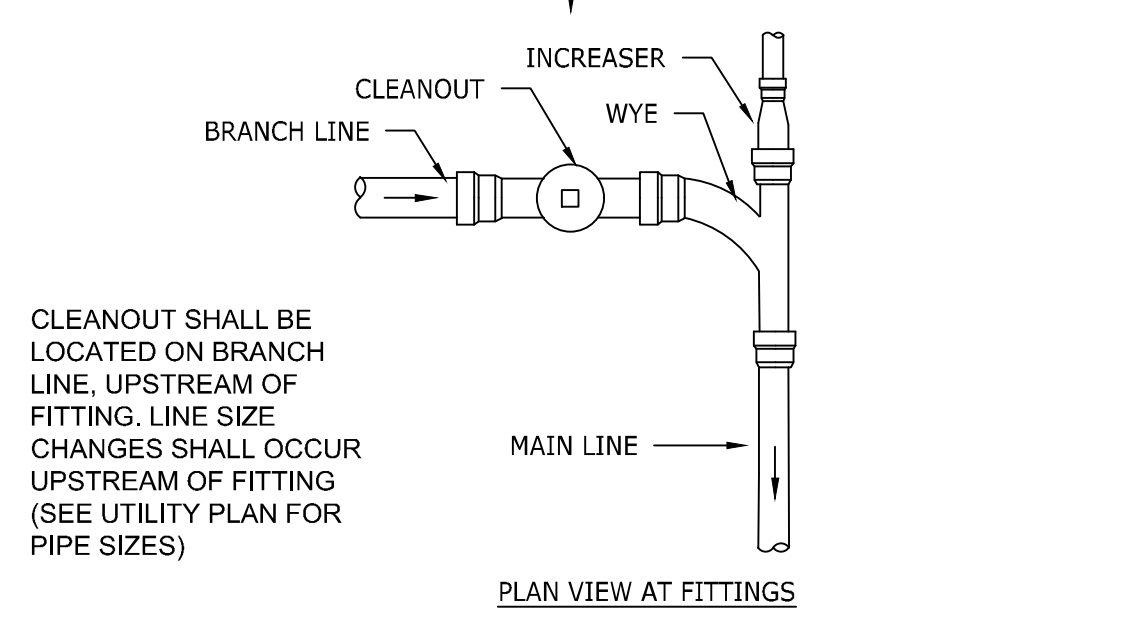
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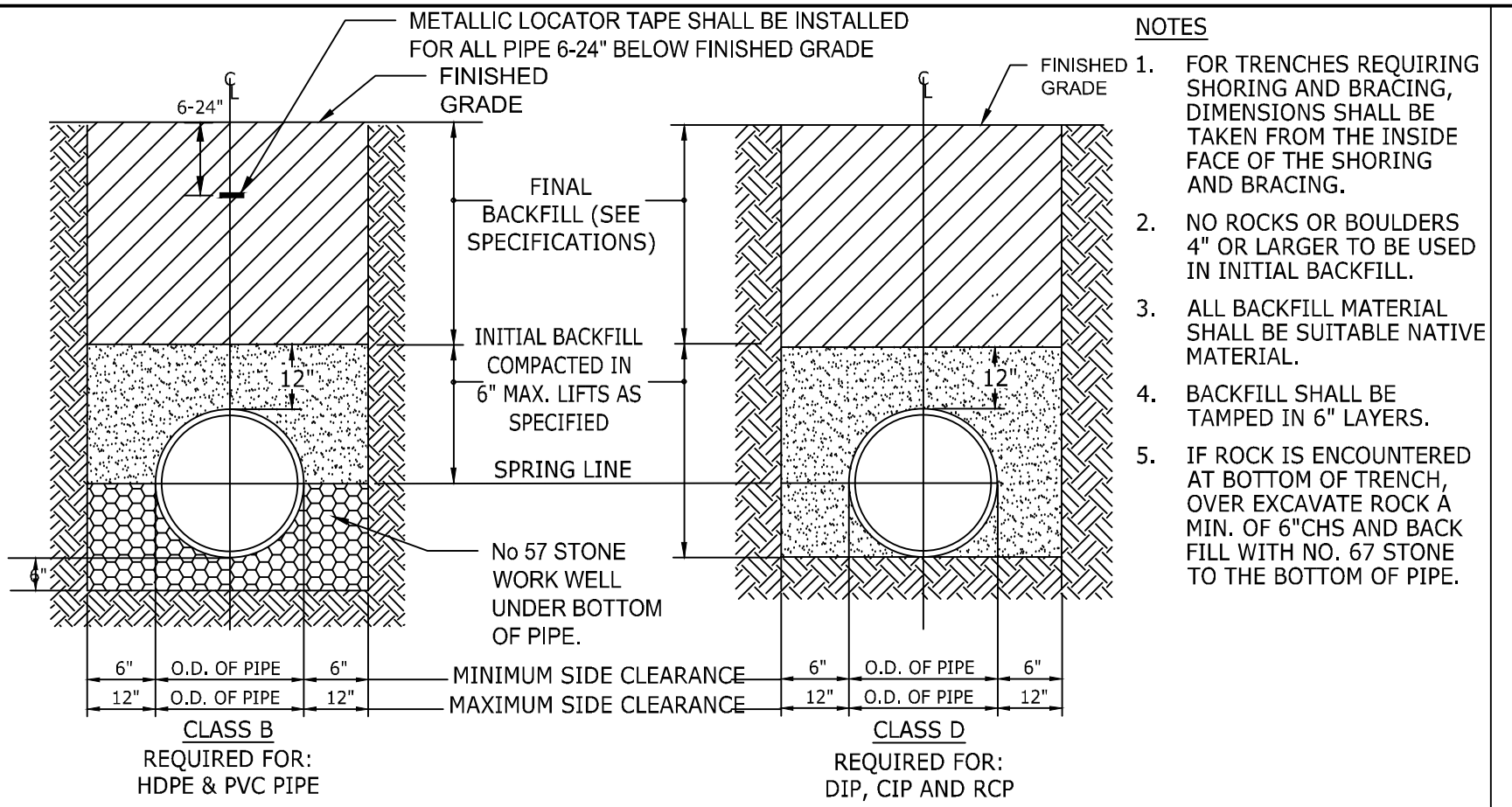
SITE DETAILS

JOB NO. 54832
 SHEET NO. C6.4

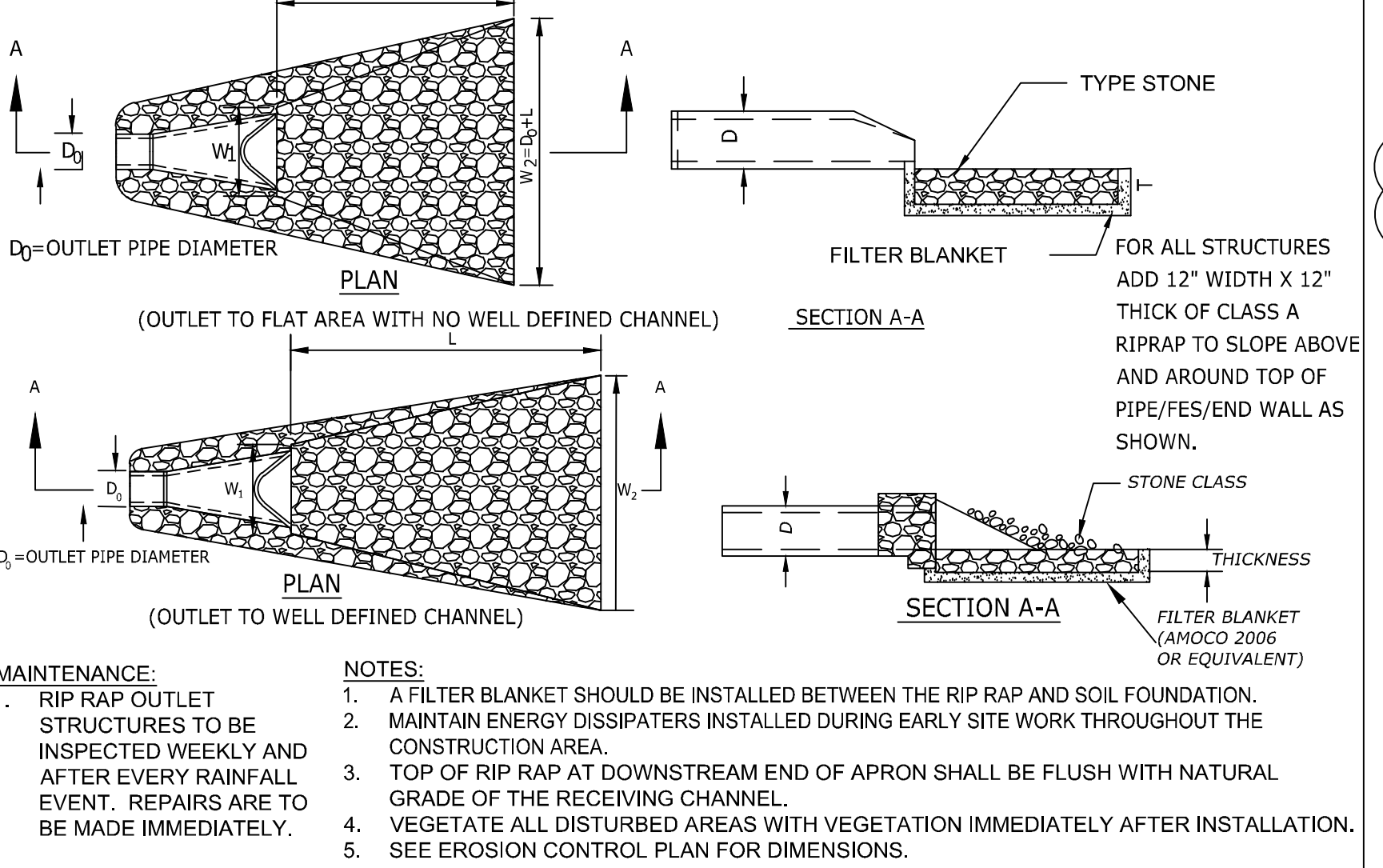
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 CITY OF RALEIGH DEVELOPMENT APPROVAL
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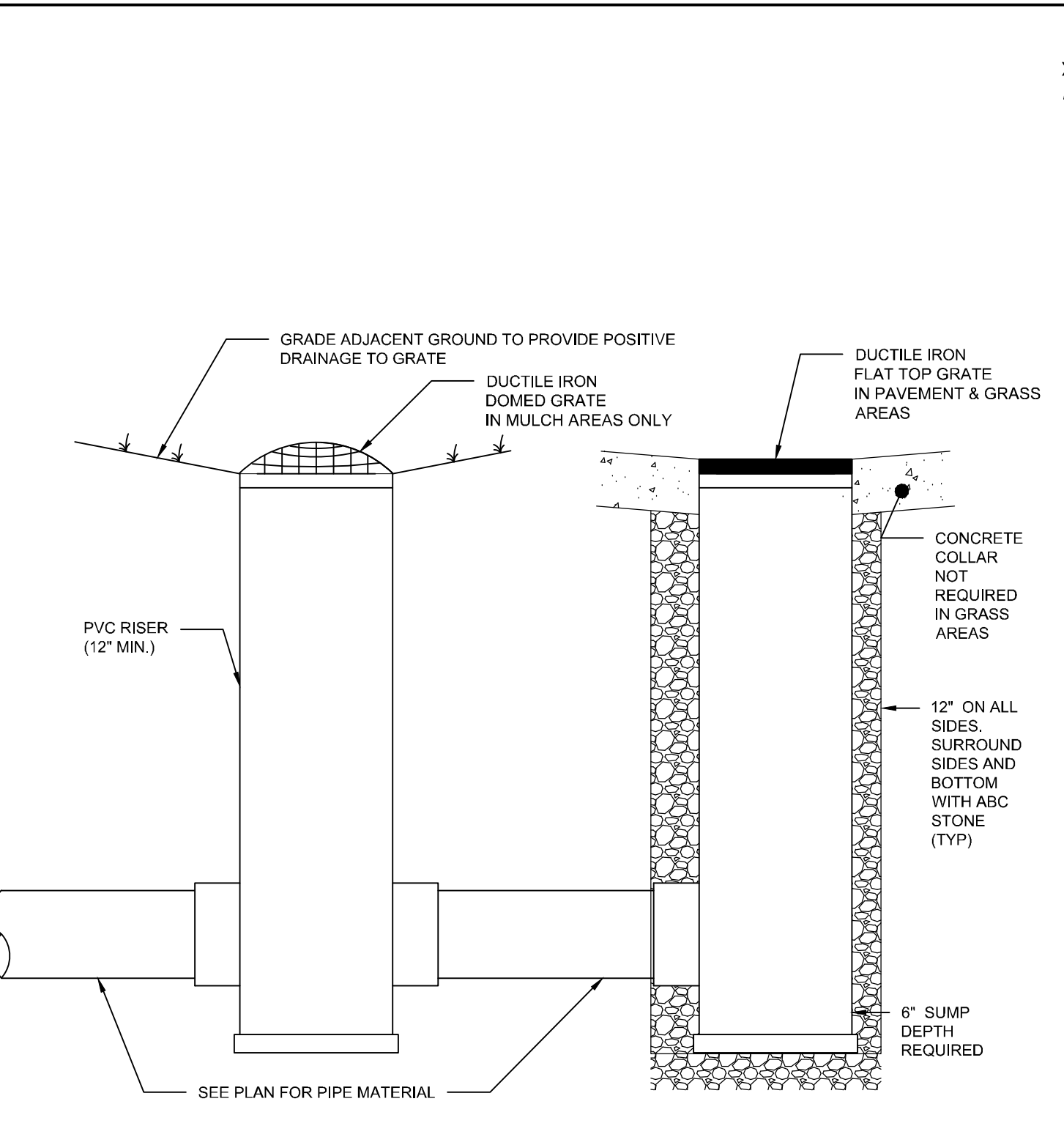
1 STANDARD SEWER CLEANOUT N.T.S.



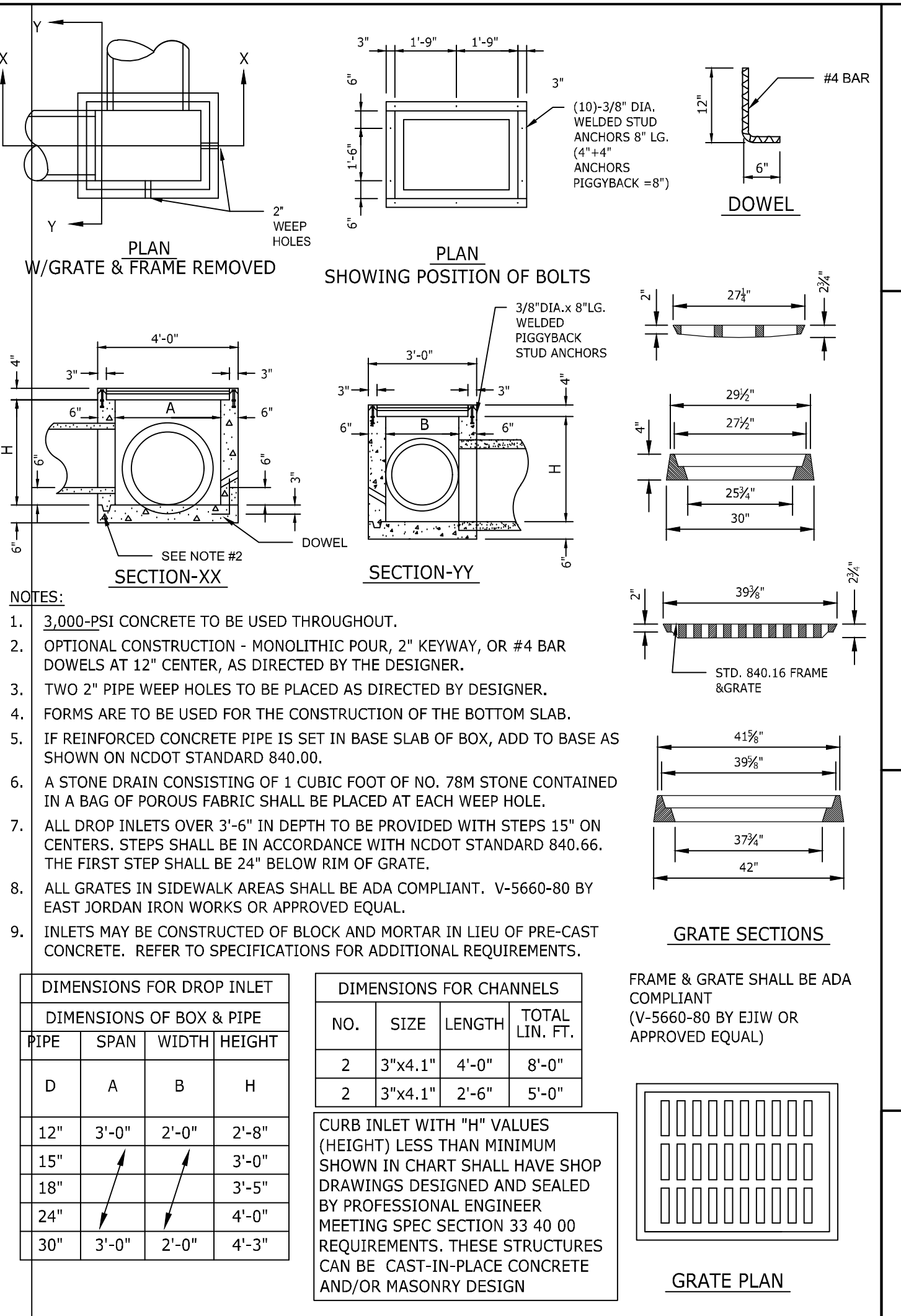
2 STORM SEWER TRENCHES N.T.S.



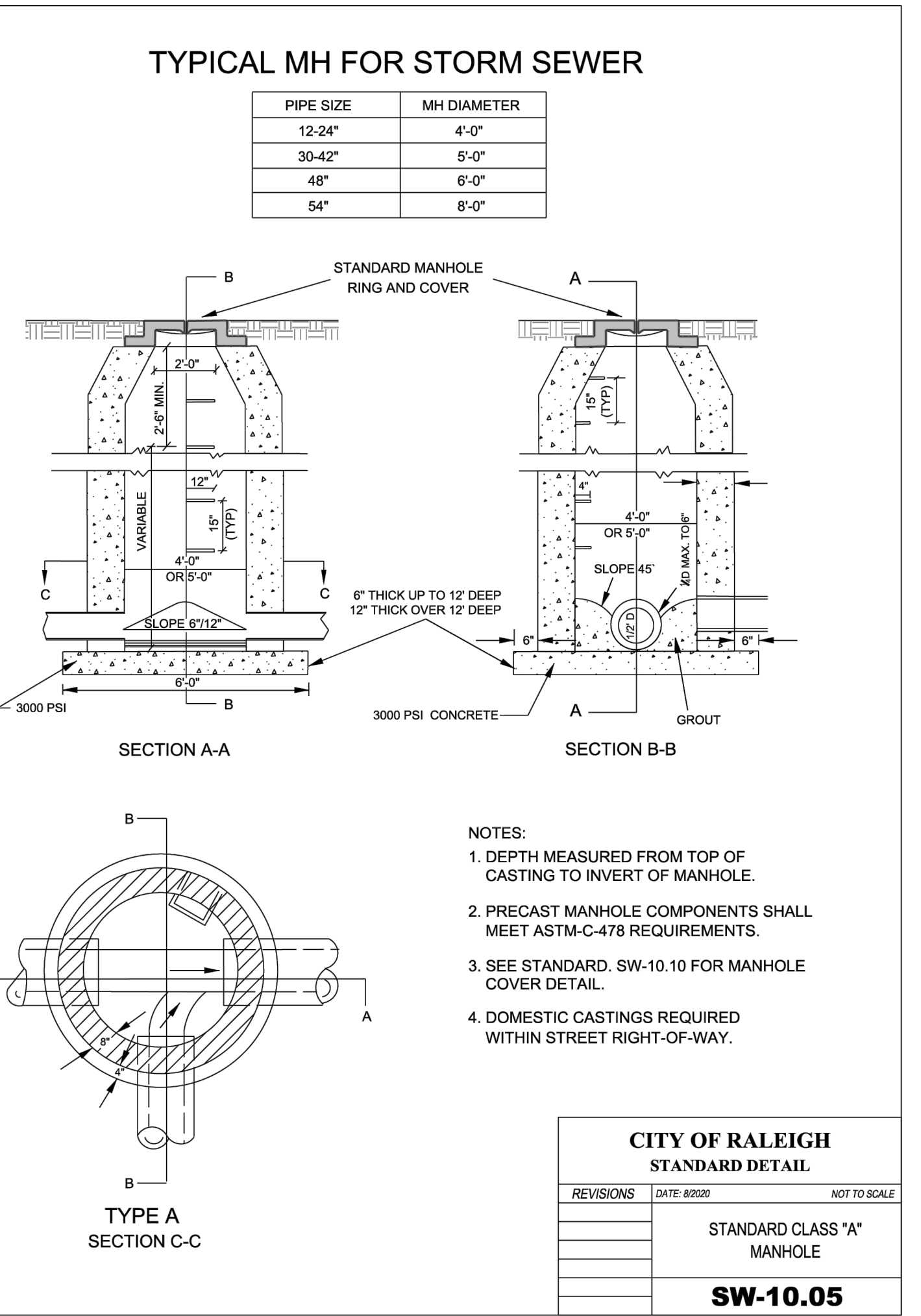
3 FLARED END SECTION N.T.S.



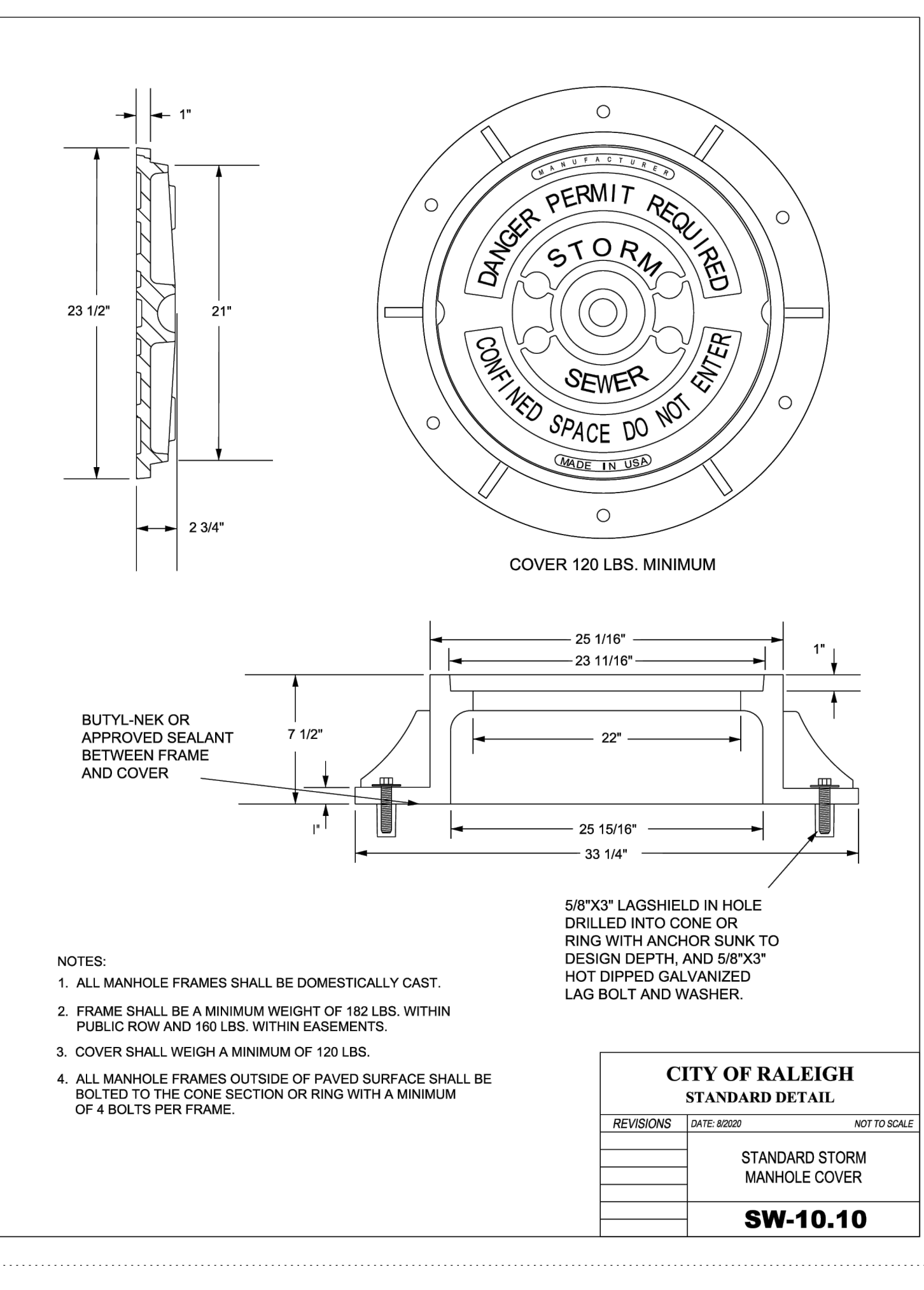
4 YARD INLET N.T.S.



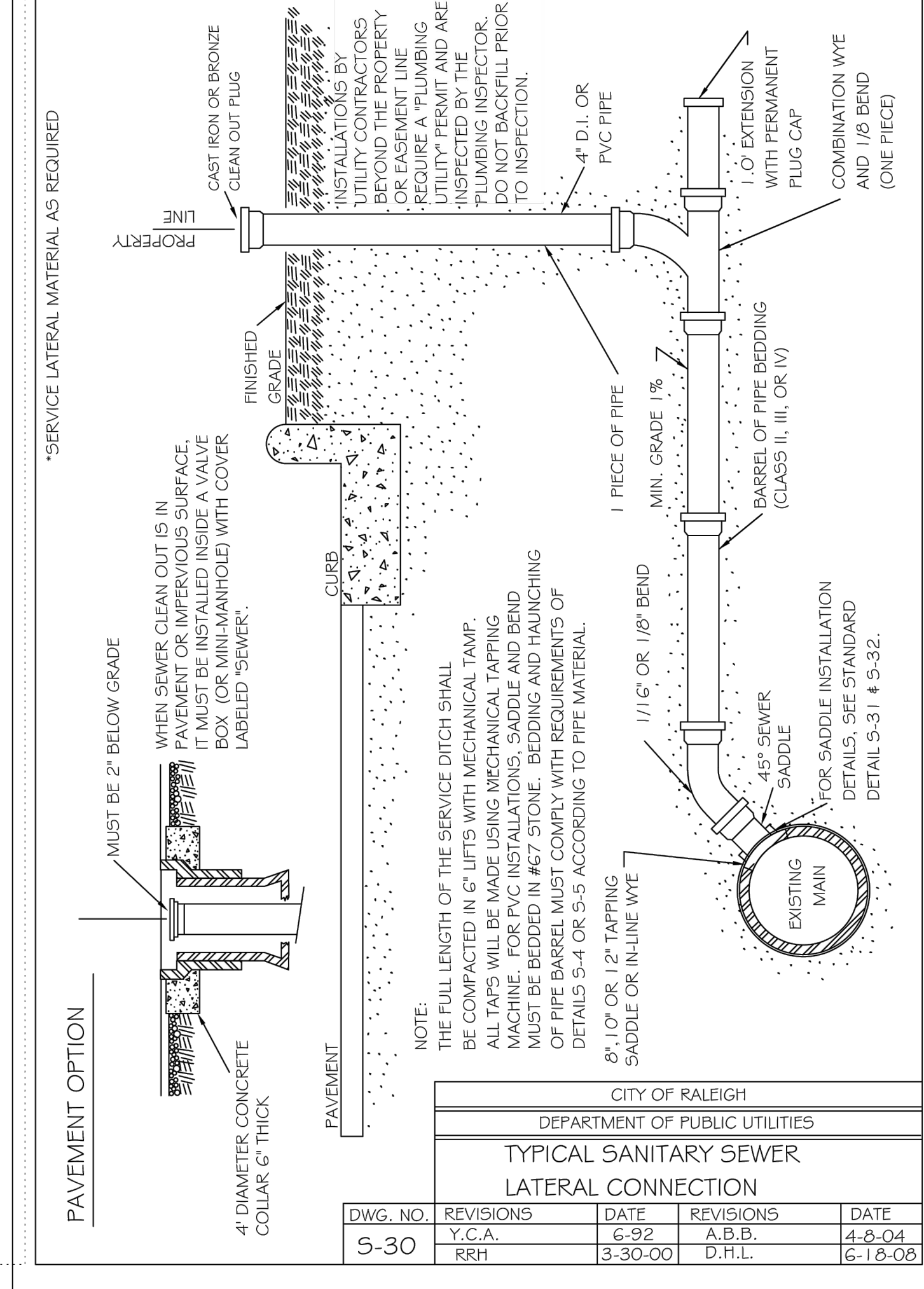
5 STANDARD CONCRETE DROP INLET N.T.S.



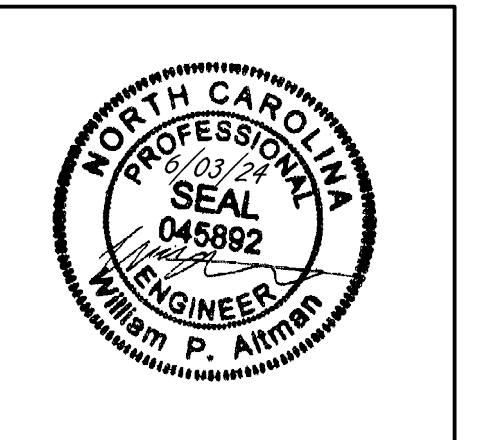
6 STORM SEWER MANHOLE N.T.S.



7 STANDARD STORM MANHOLE COVER N.T.S.



8 SANITARY SEWER LATERAL CONNECTION N.T.S.



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DRAWN BY: L. BARNES
DESIGNED BY: W. ALTMAN
CHECKED BY: W. ALTMAN
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

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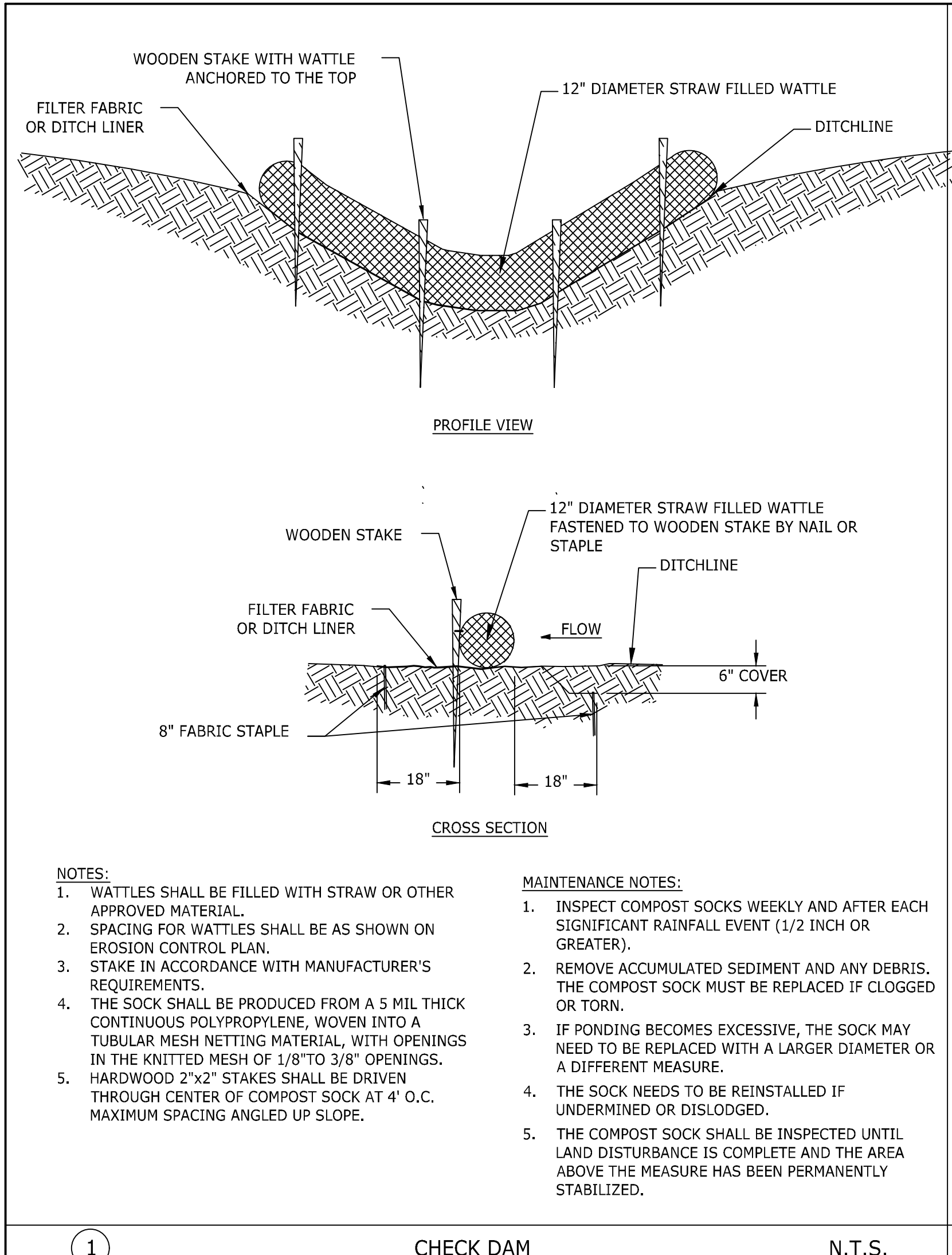
JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

JOB NO. 54832
SHEET NO. C6.5

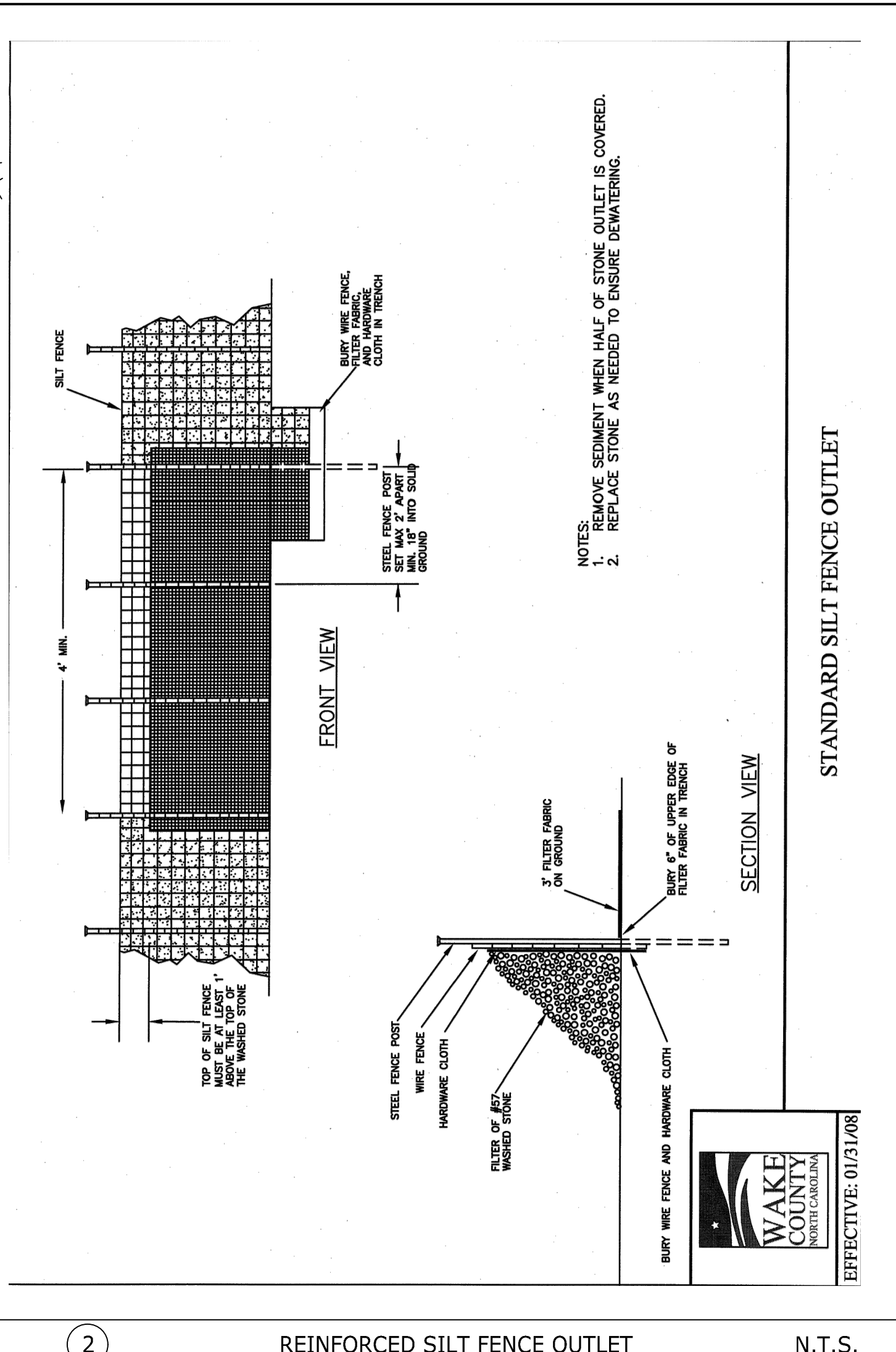
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RALEIGH WATER REVIEW OFFICER

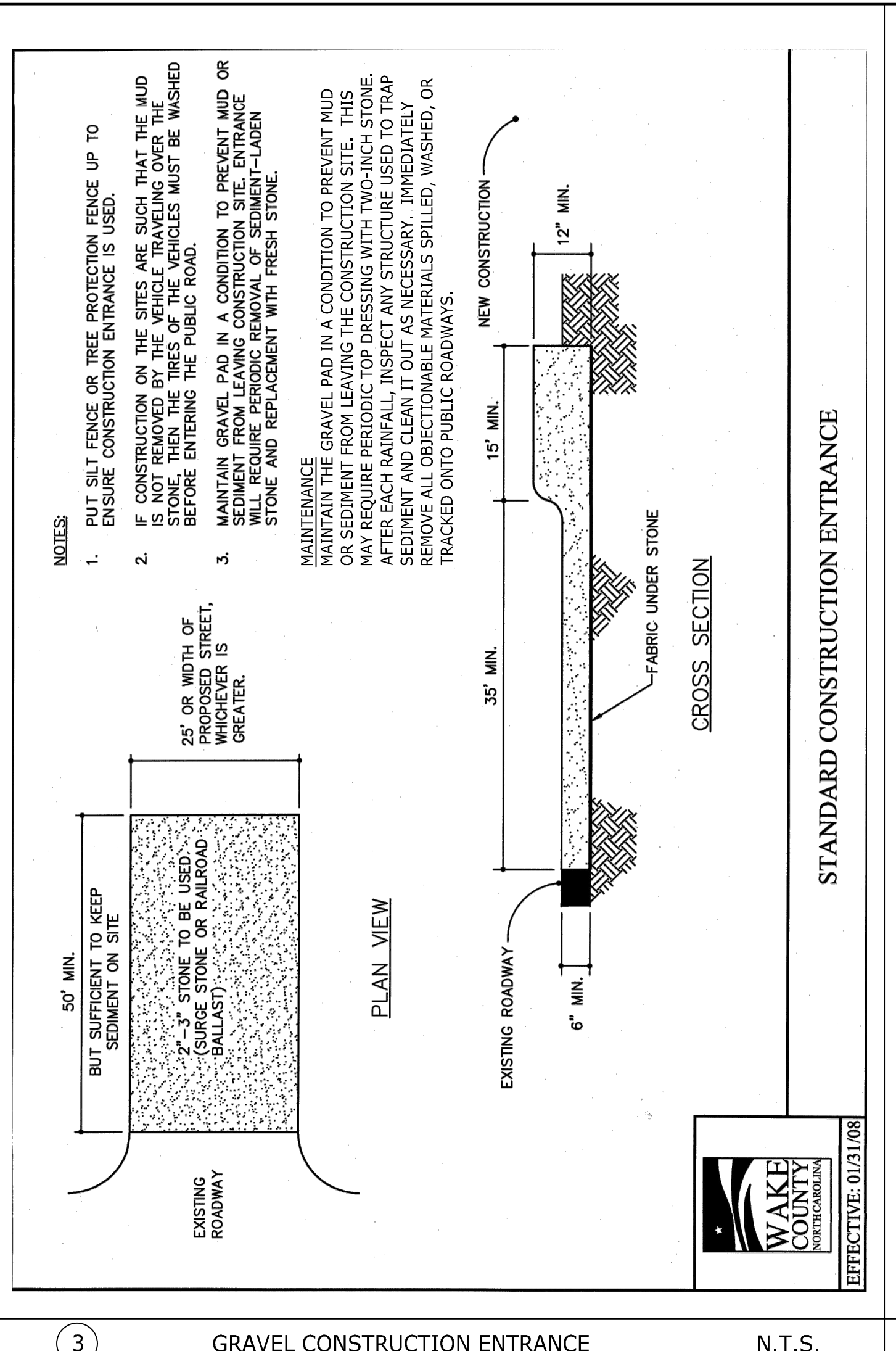
S:\333\4832-Rolesville_Site_StormWWS\SheetCD\54832-C6.0-N.T.D.T.dwg | Printed on 03/20/24, 10:04 AM | By: Lyndee Barnes



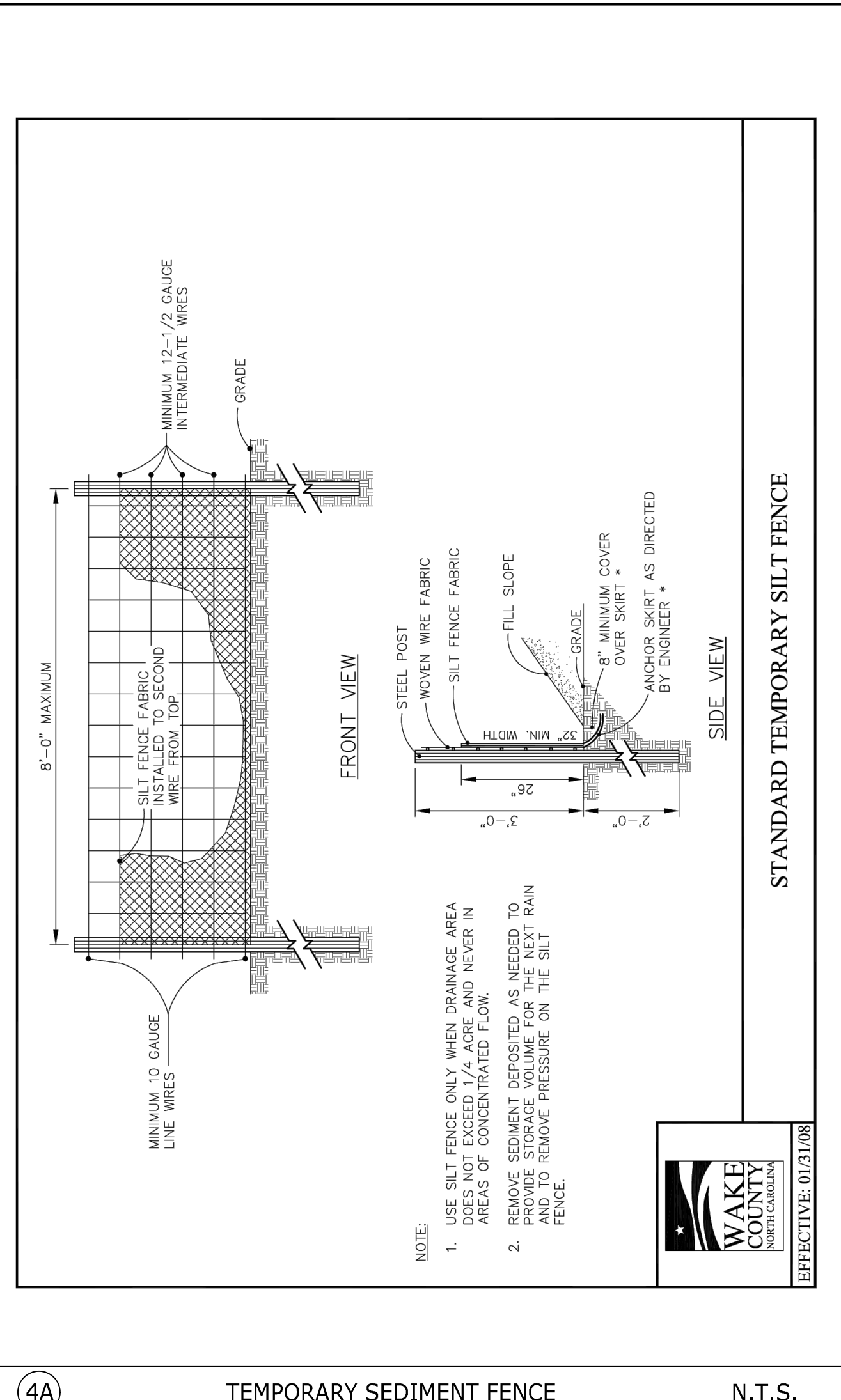
1 CHECK DAM N.T.S.



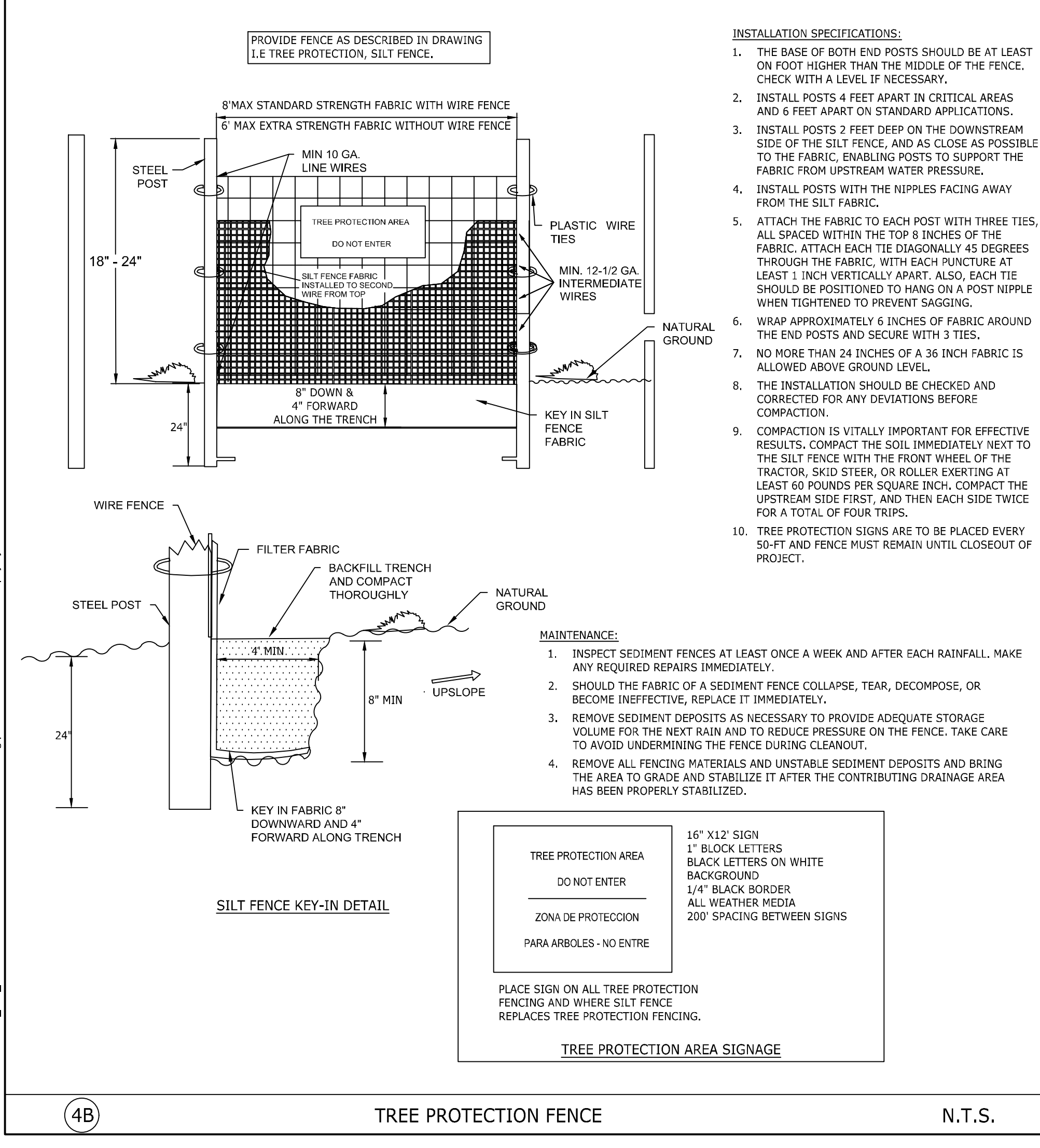
2 REINFORCED SILT FENCE OUTLET N.T.S.



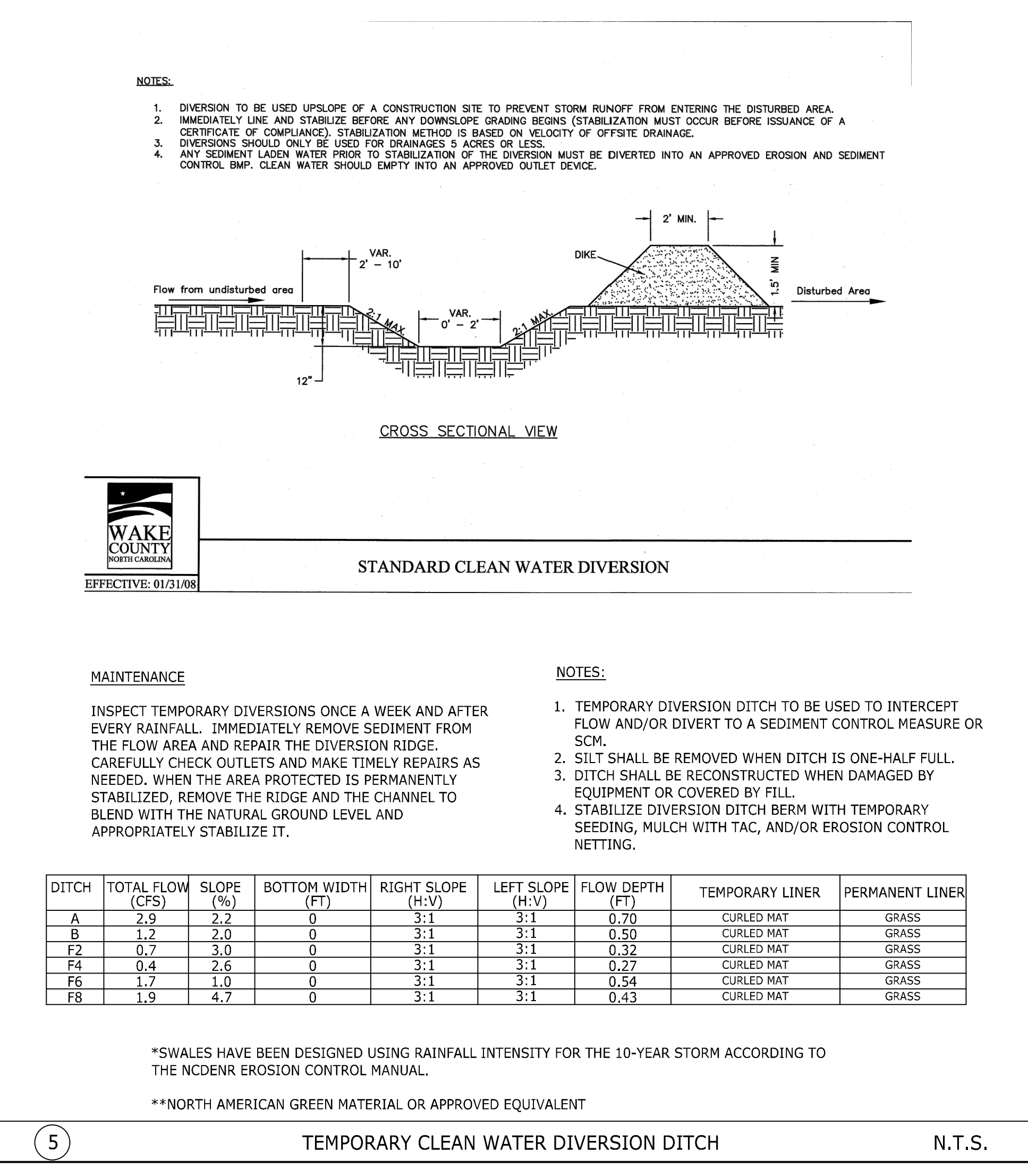
3 GRAVEL CONSTRUCTION ENTRANCE N.T.S.



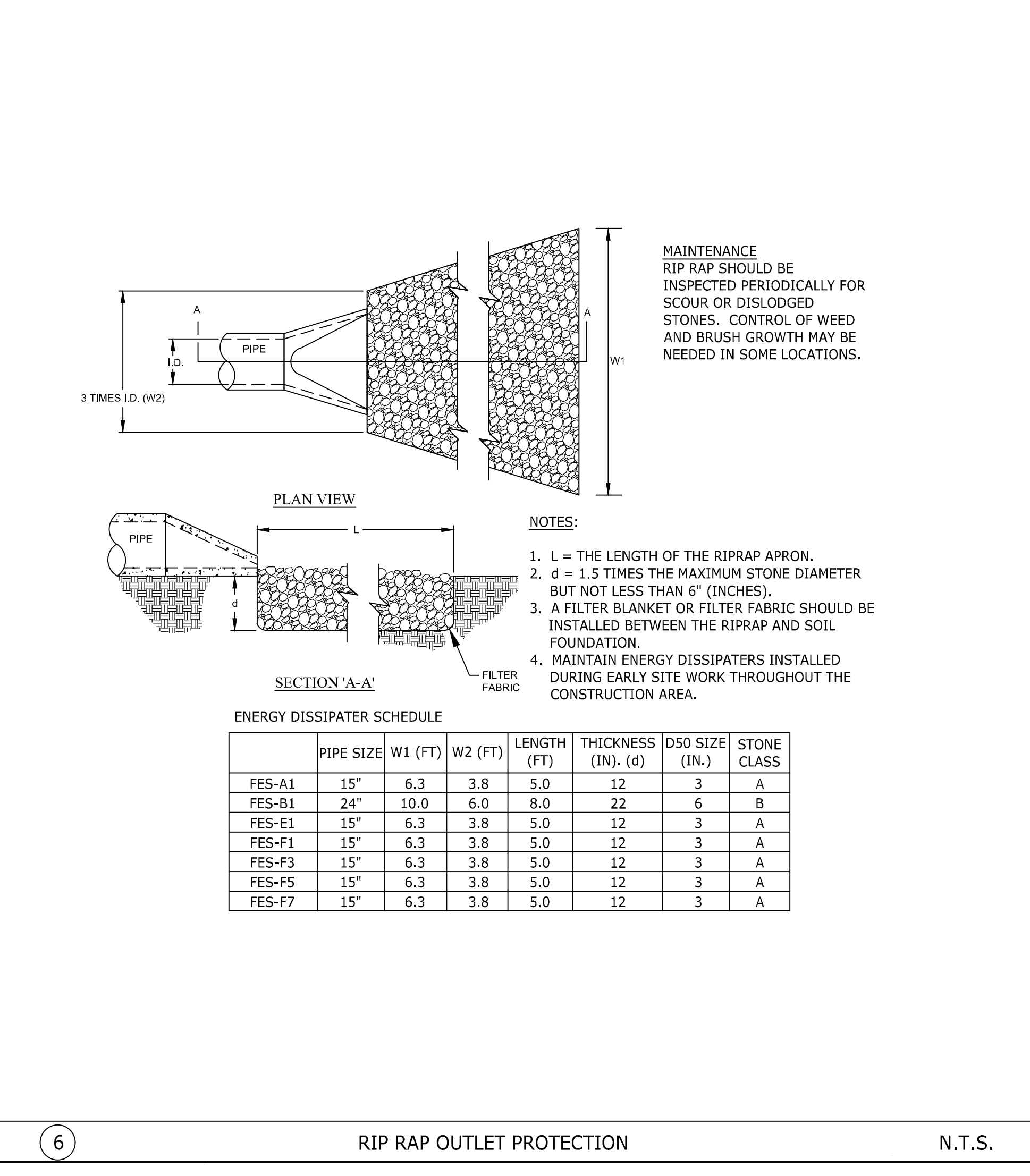
4A TEMPORARY SEDIMENT FENCE N.T.S.



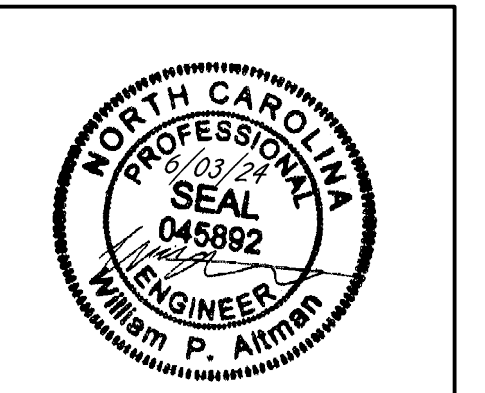
4B TREE PROTECTION FENCE N.T.S.



5 TEMPORARY CLEAN WATER DIVERSION DITCH N.T.S.



6 RIP RAP OUTLET PROTECTION N.T.S.



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DATE: 04/05/2023

DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

CHECKED BY: W. ALTMAN

SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

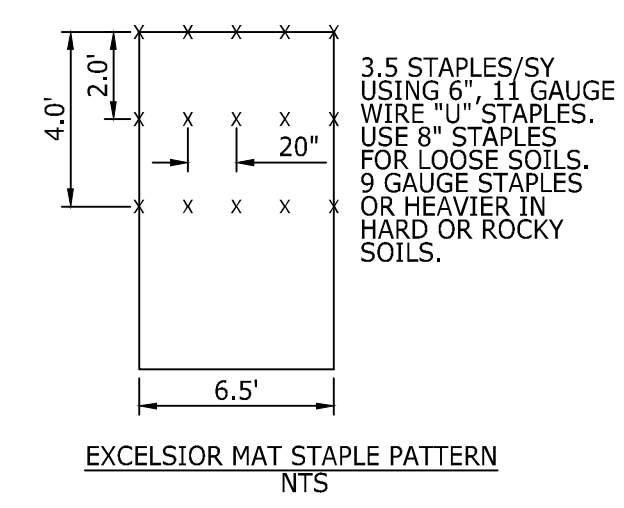
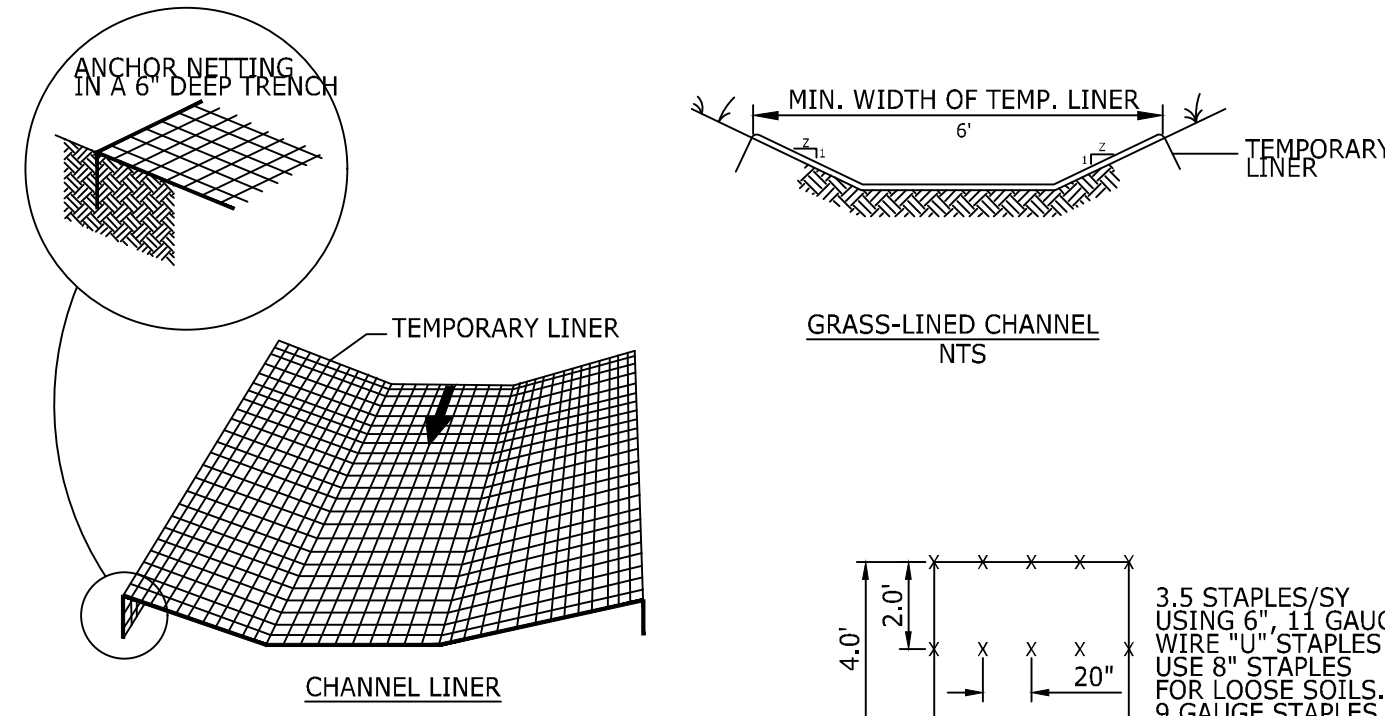
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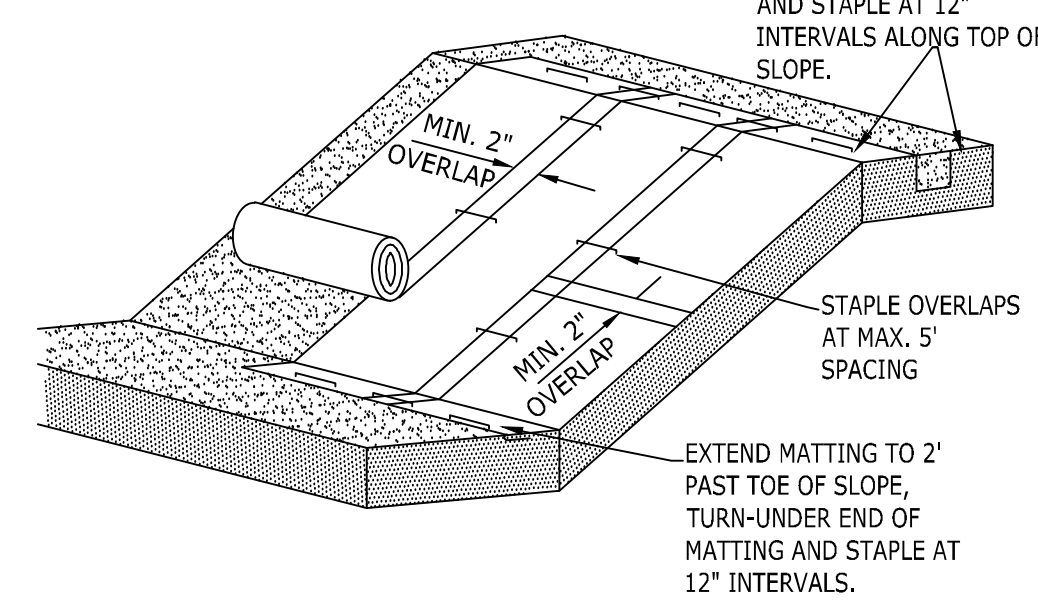


CONSTRUCTION NOTES:

- INSTALL EXCELSIOR CHANNEL LINING IN ALL SWALES OR AREAS OF CONCENTRATED STORMWATER FLOW.
- SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.
- PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
- PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
- FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
- MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
- THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

MAINTENANCE NOTES:

- GRASS-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
- REPAIRS ARE TO BE MADE IMMEDIATELY.
- REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
- GRASS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.

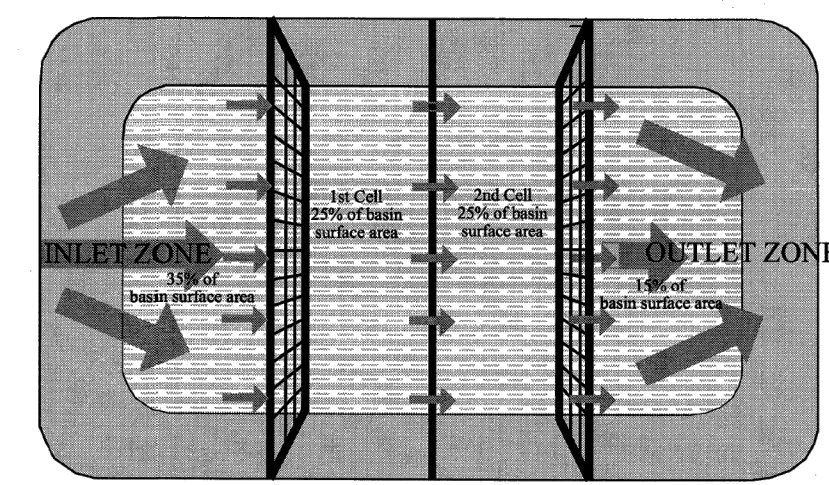


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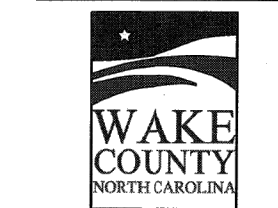
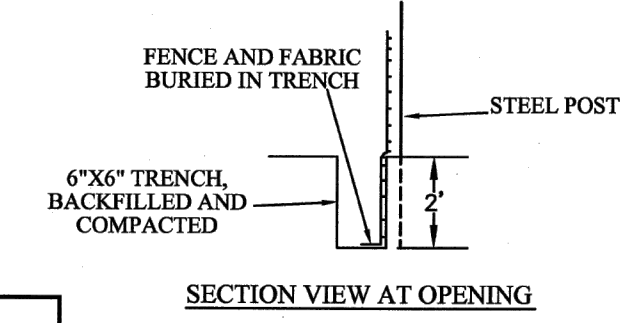
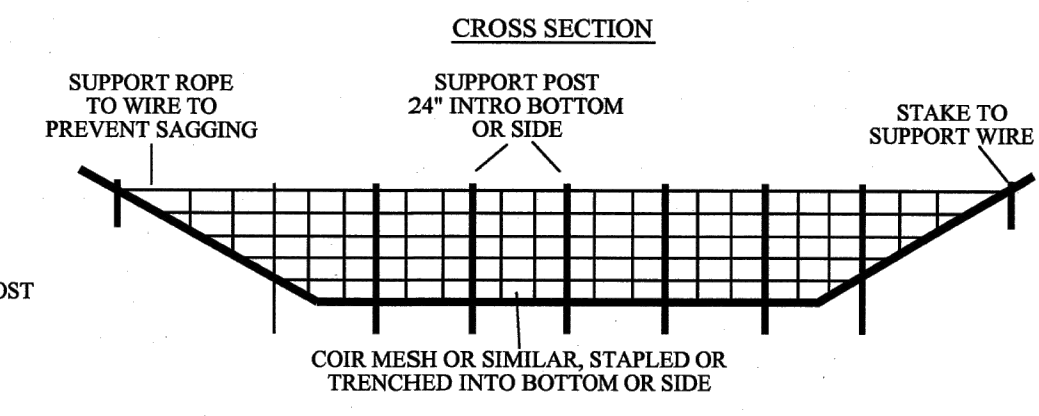
- SLOPE SURFACE SHALL BE SMOOTH PRIOR TO PLACEMENT OF MATTING TO ENSURE PROPER SOIL CONTACT.
- LIME, FERTILIZE, AND SEED PRIOR TO PLACING MATTING. PLANT SHRUBS, TREES, ETC. FOLLOWING PLACEMENT OF MATTING.
- ON SLOPES FLATTER THAN 4:1, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
- DO NOT STRETCH MATTING TIGHT. ALLOW ROLLS TO CONFORM TO ANY IRREGULARITIES.
- INSTALL STAPLES IN PATTERNS AS RECOMMENDED BY MATTING MANUFACTURER.

MAINTENANCE NOTES:

- INSPECT MATTING AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL AND REPAIR IMMEDIATELY AS NEEDED.
- ENSURE GOOD CONTACT WITH SOIL SURFACE IS MAINTAINED AND EROSION DOES NOT OCCUR BENEATH MATTING.
- AREAS OF MATTING THAT ARE DAMAGED OR WHERE NOT IN CLOSE CONTACT WITH THE SOIL SHALL BE REPAIRED AND STAPLED.
- IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREAS PROTECTED.
- MONITOR AND REPAIR MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.



- NOTES:**
- BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
 - MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 30 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
 - BAFFLE SHALL BE 700 GM2 COIR EROSION BLANKET.
 - TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
 - INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.



EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL

MAINTENANCE

INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

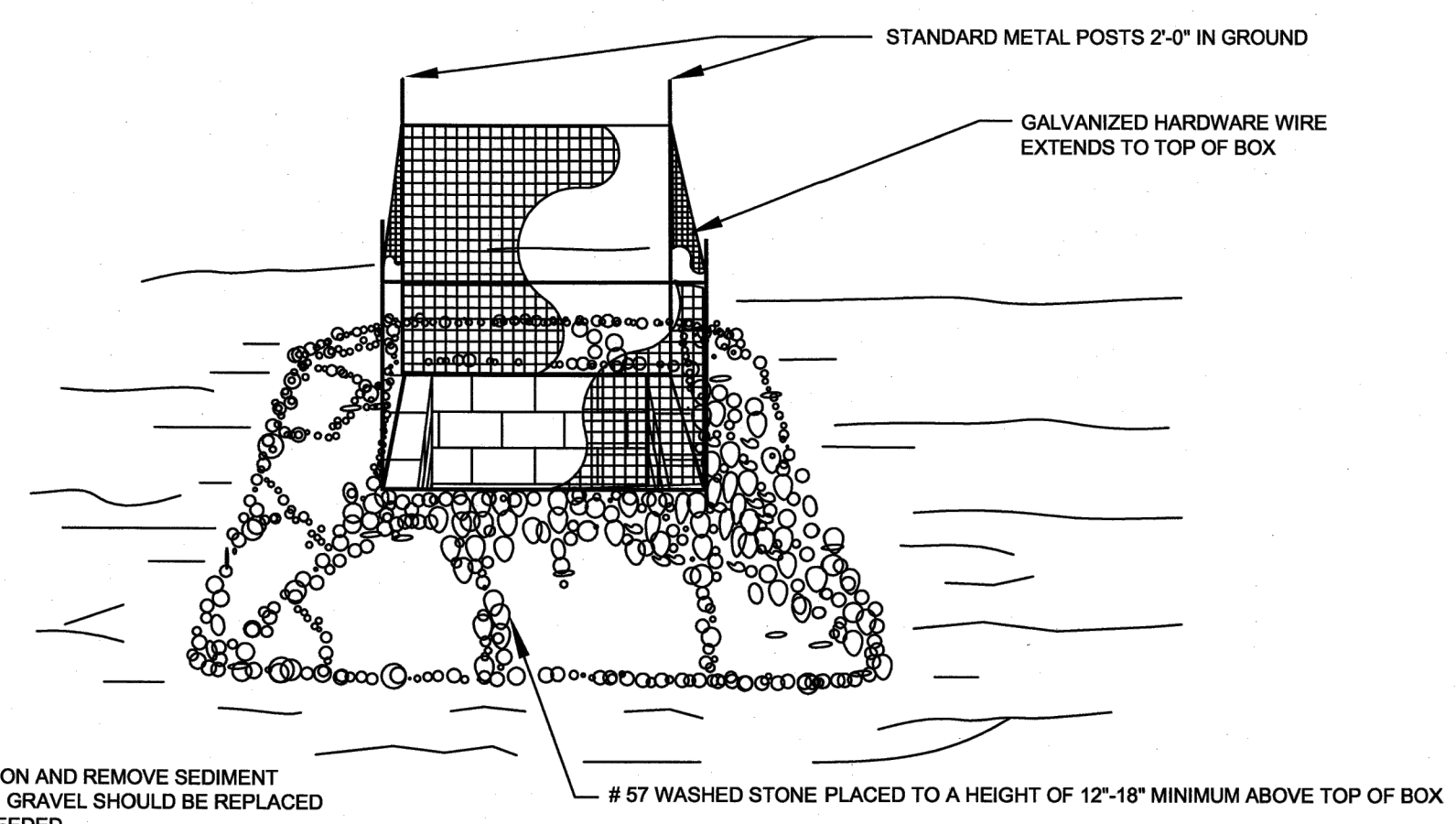
REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

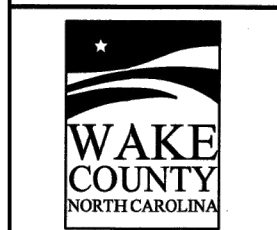
① TEMPORARY CHANNEL LINING N.T.S.

② ROLLED EROSION CONTROL PRODUCT N.T.S.

③ COIR MESH BAFFLES (NCDNR 6.65) N.T.S.

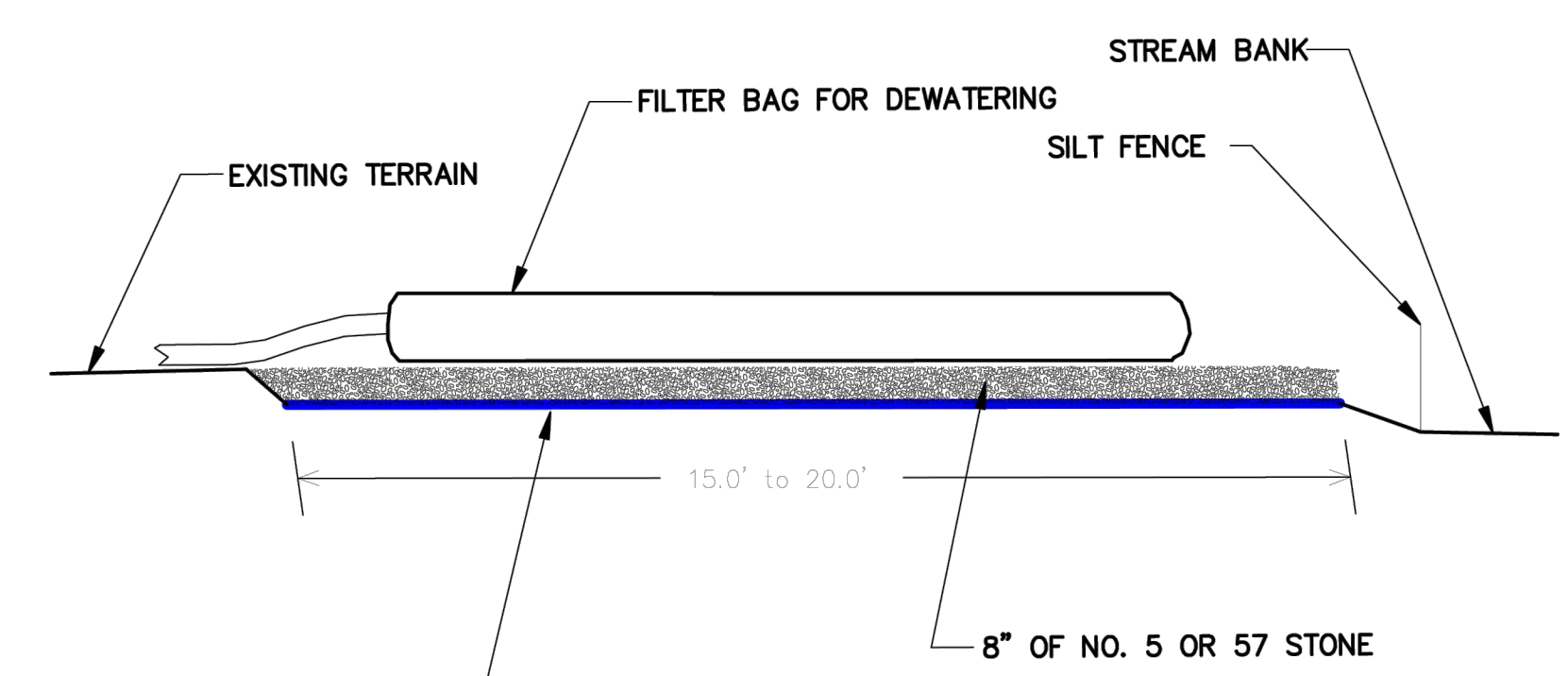


- NOTE:**
- INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



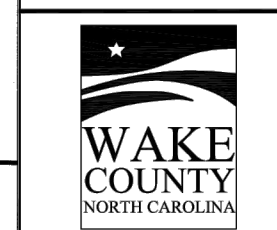
EFFECTIVE: 01/31/08

STANDARD GRAVEL YARD INLET PROTECTION



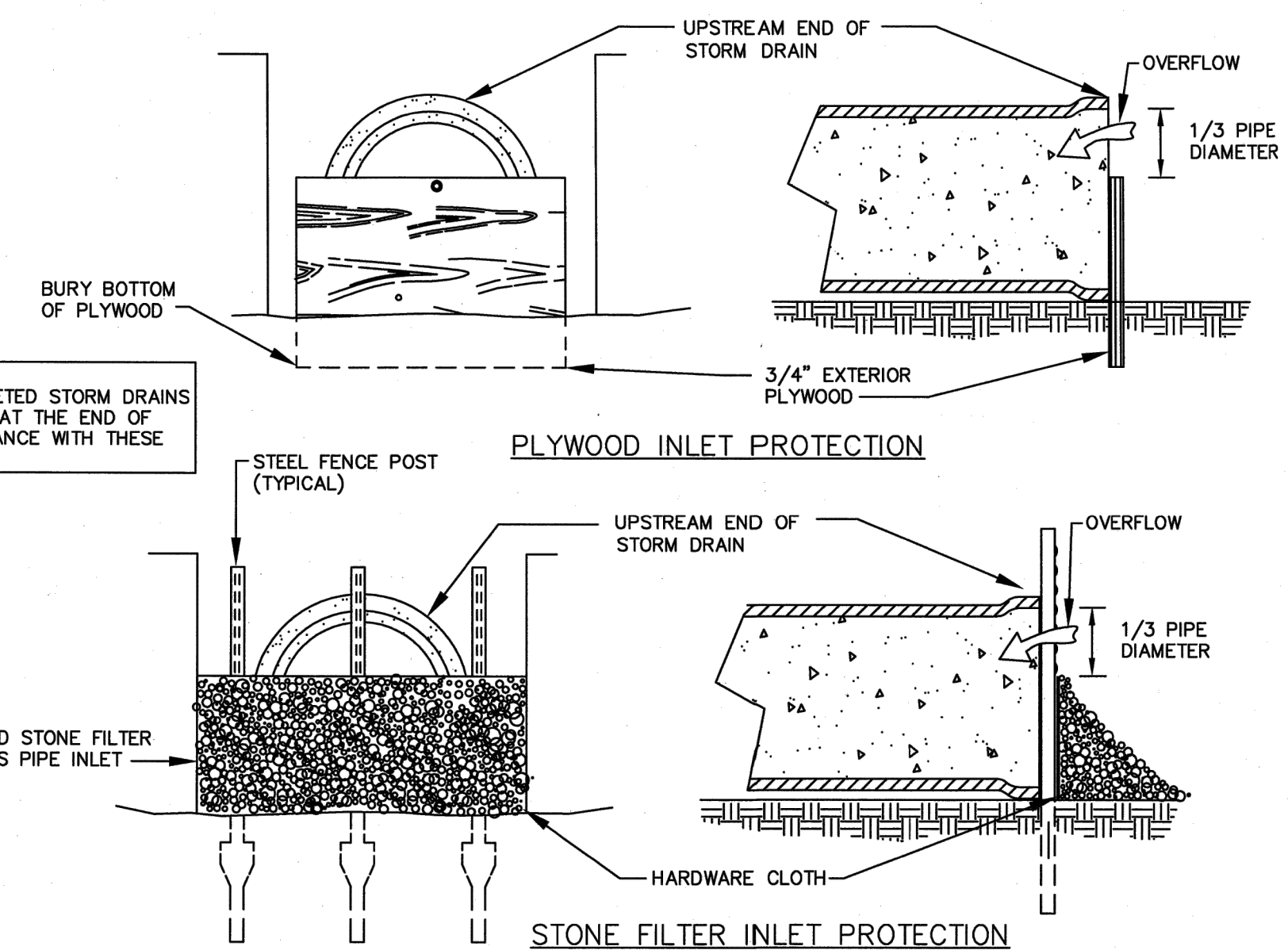
NOTES

PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

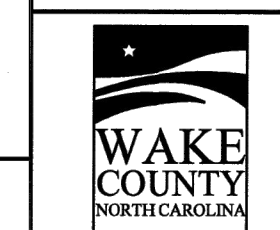


EFFECTIVE: 01/31/08

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



- NOTE:**
- ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE PROTECTED AT THE END OF EACH DAY IN ACCORDANCE WITH THESE DETAILS.



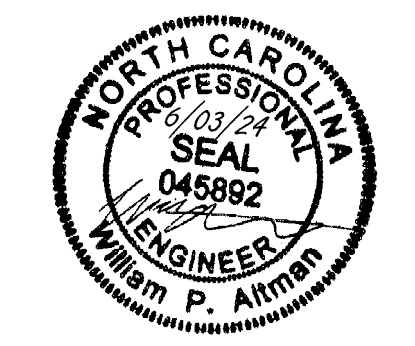
EFFECTIVE: 01/31/08

STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)

④ YARD INLET PROTECTION N.T.S.

⑤ DEWATERING PUMP WITH SILT BAG N.T.S.

⑥ PIPE INLET PROTECTION N.T.S.



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DATE	REVISION DESCRIPTION
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023

DRAWN BY: L. BARNES

DESIGNED BY: W. ALTMAN

CHECKED BY: W. ALTMAN

SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 SITE DETAILS

JOB NO.	54832
SHEET NO.	C6.7

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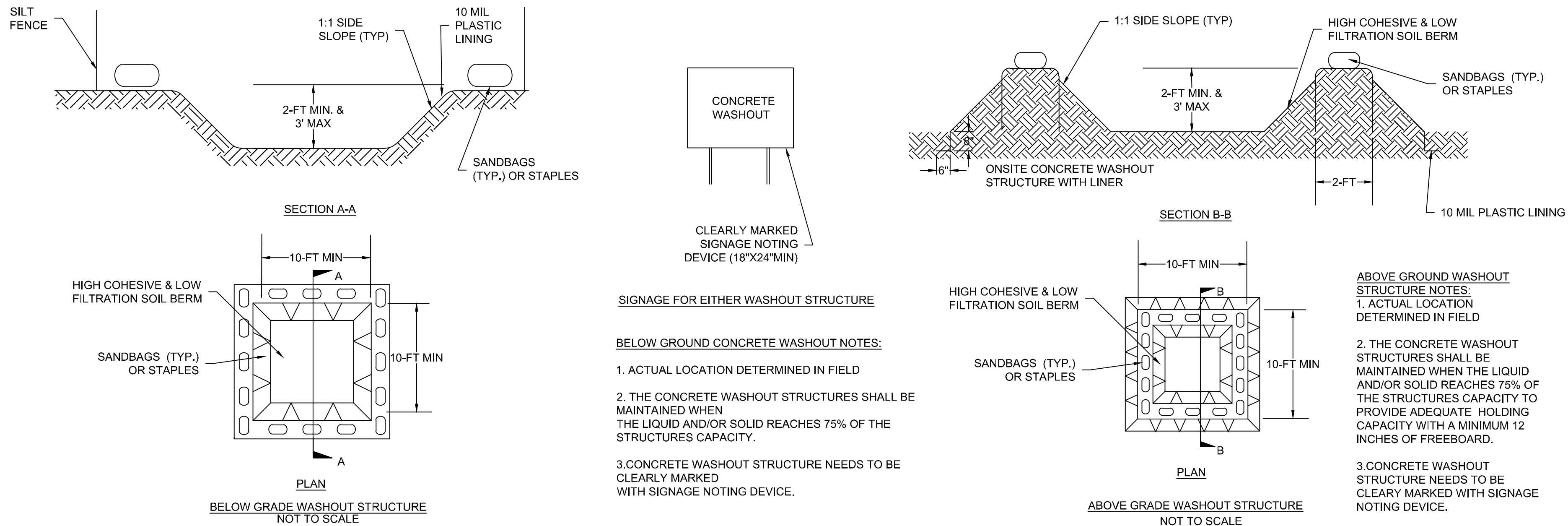
GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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' 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 > 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.



(A) CONCRETE WASHOUT AREA N.T.S.

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
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> PERMANENT GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERS GEOTEXTILE FABRICS SUCH AS PERMANENT SOIL REINFORCEMENT MATTING 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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- SELECT FLOCCULANTS THAT ARE APPROPRIATE FOR THE SOILS BEING EXPOSED DURING CONSTRUCTION, SELECTING FROM THE NC DWR LIST OF APPROVED PAMS/FLOCCULANTS.
- APPLY FLOCCULANTS AT OR BEFORE THE INLETS TO EROSION AND SEDIMENT CONTROL MEASURES.
- APPLY FLOCCULANTS AT THE CONCENTRATIONS SPECIFIED IN THE NC DWR LIST OF APPROVED PAMS/FLOCCULANTS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- PROVIDE PONDING AREA FOR CONTAINMENT OF TREATED STORMWATER BEFORE DISCHARGING OFFSITE.
- STORE FLOCCULANTS IN LEAK-PROOF CONTAINERS THAT ARE KEPT UNDER STORM-RESISTANT COVER OR SURROUNDED BY SECONDARY CONTAINMENT STRUCTURES.

EQUIPMENT AND VEHICLE MAINTENANCE

- MAINTAIN VEHICLES AND EQUIPMENT TO PREVENT DISCHARGE OF FLUIDS.
- PROVIDE DRIP PANS UNDER ANY STORED EQUIPMENT.
- IDENTIFY LEAKS AND REPAIR AS SOON AS FEASIBLE, OR REMOVE LEAKING EQUIPMENT FROM THE PROJECT.
- COLLECT ALL SPENT FLUIDS, STORE IN SEPARATE CONTAINERS AND PROPERLY DISPOSE AS HAZARDOUS WASTE (RECYCLE WHEN POSSIBLE).
- REMOVE LEAKING VEHICLES AND CONSTRUCTION EQUIPMENT FROM SERVICE UNTIL THE PROBLEM HAS BEEN CORRECTED.
- 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

- NEVER BURY OR BURN WASTE. PLACE LITTER AND DEBRIS IN APPROVED WASTE CONTAINERS.
- PROVIDE A SUFFICIENT NUMBER AND SIZE OF WASTE CONTAINERS (E.G. DUMPSTER, TRASH RECEPTACLE) ON SITE TO CONTAIN CONSTRUCTION AND DOMESTIC WASTES.
- LOCATE WASTE CONTAINERS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
- 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.
- COVER WASTE CONTAINERS AT THE END OF EACH WORKDAY AND BEFORE STORM EVENTS OR PROVIDE SECONDARY CONTAINMENT. REPAIR OR REPLACE DAMAGED WASTE CONTAINERS.
- ANCHOR ALL LIGHTWEIGHT ITEMS IN WASTE CONTAINERS DURING TIMES OF HIGH WINDS.
- EMPTY WASTE CONTAINERS AS NEEDED TO PREVENT OVERFLOW. CLEAN UP IMMEDIATELY IF CONTAINERS OVERFLOW.
- DISPOSE WASTE OFF-SITE AT AN APPROVED DISPOSAL FACILITY.
- ON BUSINESS DAYS, CLEAN UP AND DISPOSE OF WASTE IN DESIGNATED WASTE CONTAINERS.

PAINT AND OTHER LIQUID WASTE

- DO NOT DUMP PAINT AND OTHER LIQUID WASTE INTO STORM DRAINS, STREAMS OR WETLANDS.
- LOCATE PAINT WASHOUTS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
- CONTAIN LIQUID WASTES IN A CONTROLLED AREA.
- CONTAINMENT MUST BE LABELED, SIZED AND PLACED APPROPRIATELY FOR THE NEEDS OF SITE.
- PREVENT THE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS AND OTHER LIQUID WASTES FROM CONSTRUCTION SITES.

PORTABLE TOILETS

- 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.
- PROVIDE STAKING OR ANCHORING OF PORTABLE TOILETS DURING PERIODS OF HIGH WINDS OR IN HIGH FOOT TRAFFIC AREAS.
- 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

- SHOW STOCKPILE LOCATIONS ON PLANS. LOCATE EARTHEN-MATERIAL STOCKPILE AREAS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS, SEDIMENT BASINS, PERIMETER SEDIMENT CONTROLS AND SURFACE WATERS UNLESS IT CAN BE SHOWN NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
- PROTECT STOCKPILE WITH SILT FENCE INSTALLED ALONG TOE OF SLOPE WITH A MINIMUM OFFSET OF FIVE FEET FROM THE TOE OF STOCKPILE.
- PROVIDE STABLE STONE ACCESS POINT WHEN FEASIBLE.
- 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.

CONCRETE WASHOUTS

- DO NOT DISCHARGE CONCRETE OR CEMENT SLURRY FROM THE SITE.
- DISPOSE OF, OR RECYCLE SETTLED, HARDENED CONCRETE RESIDUE IN ACCORDANCE WITH LOCAL AND STATE SOLID WASTE REGULATIONS AND AT AN APPROVED FACILITY.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

- STORE AND APPLY HERBICIDES, PESTICIDES AND RODENTICIDES IN ACCORDANCE WITH LABEL RESTRICTIONS.
- 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.
- 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.
- DO NOT STOCKPILE THESE MATERIALS ONSITE.

HAZARDOUS AND TOXIC WASTE

- CREATE DESIGNATED HAZARDOUS WASTE COLLECTION AREAS ON-SITE.
- PLACE HAZARDOUS WASTE CONTAINERS UNDER COVER OR IN SECONDARY CONTAINMENT.
- DO NOT STORE HAZARDOUS CHEMICALS, DRUMS OR BAGGED MATERIALS DIRECTLY ON THE GROUND.

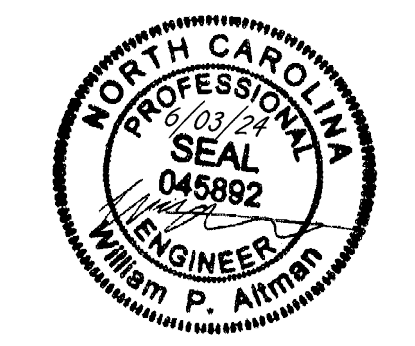
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 6".
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 6 INCHES. MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LIME & FERTILIZATION SCHEDULE

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE REPRODUCED OR COPIED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.
CITY OF RALEIGH DEVELOPMENT APPROVAL
RALEIGH WATER REVIEW OFFICER



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DESIGNED BY: W. ALTMAN
CHECKED BY: W. ALTMAN
SCALE: AS SHOWN

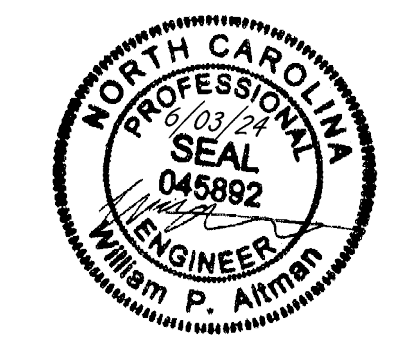
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

REVISION HISTORY:

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06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

JOB NO. 54832
SHEET NO. C6.9

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04/05/2023

DRAWN BY
L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

SCALE
AS SHOWN

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

TCG01 SELF-INSPECTION, RECORDKEEPING, AND REPORTING

JOB NO.
54832

SHEET NO.
C6.10

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**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.

REQUIRED GROUND STABILIZATION TIMEFRAMES		
INSPECT	FREQUENCY (DURING NORMAL BUSINESS HOURS)	TIMEFRAME VARIATIONS
(1) RAIN GAUGE MAINTAINED IN GOOD WORKING ORDER	DAILY	DAILY RAINFALL AMOUNTS. IF NO DAILY RAIN GAUGE OBSERVATIONS ARE MADE DURING WEEKEND OR HOLIDAY PERIODS, AND NO INDIVIDUAL-DAY RAINFALL INFORMATION IS AVAILABLE, RECORD THE CUMULATIVE RAIN MEASUREMENT FOR THOSE UNATTENDED DAYS (AND 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 WEATHER 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 MEASURES 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 OF 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 A RECORD OF THE FOLLOWING SHALL BE MADE: 1. ACTIONS TAKEN TO CLEAN UP OR STABILIZE THE SEDIMENT THAT HAS LEFT THE SITE LIMITS 2. DESCRIPTION, EVIDENCE, AND DATE OF CORRECTIVE ACTIONS TAKEN, AND 3. AN EXPLANATION AS TO THE ACTIONS TAKEN TO CONTROL FUTURE RELEASES.
(5) STREAMS OR WETLANDS ON SITE 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 A STREAM 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, AND 2. RECORDS OF THE 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 AN 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.

OCCURRENCE	DOCUMENTATION 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 CONSTRUCTION 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.

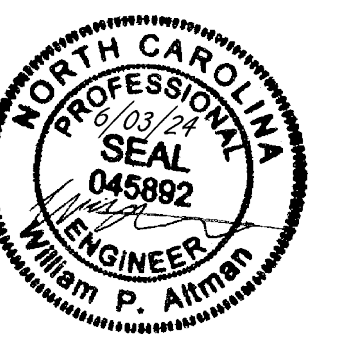
OCCURRENCE	REPORTING TIMEFRAMES (AFTER DISCOVERY) AND OTHER REQUIREMENTS
(A) VISIBLE SEDIMENT DEPOSITION IN A STREAM OR WETLAND	<ul style="list-style-type: none"> • WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATION • WITHIN 7 CALENDAR DAYS, A REPORT THAT CONTAINS A DESCRIPTION OF THE SEDIMENT AND ACTIONS 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 CAUSES, 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	<ul style="list-style-type: none"> • 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)]	<ul style="list-style-type: none"> • 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)]	<ul style="list-style-type: none"> • 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(I)(7)]	<ul style="list-style-type: none"> • 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(I)(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.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.
CITY OF RALEIGH DEVELOPMENT APPROVAL: RALEIGH WATER REVIEW OFFICER



THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
 5410 Trinity Road, Suite 102 | Raleigh, NC 27607
 TEL 919.866.9511 FAX 919.833.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD WIDENING PLAN - DEMO, SITE AND SIGNAGE & STRIPING PLANS

JOB NO. 54832
 SHEET NO. C7.0

DEMOLITION KEY NOTES

A	REMOVE ASPHALT PAVEMENT AND STONE BASE	
B	TREE CLEARING	
C	50-FT MILL TAPER FROM 0" - 1.5" (SEE C7.0)	
D	SAW CUT AND REMOVE CONCRETE AT NEAREST JOINT.	
E	REMOVE AND REPLACE EXISTING CULVERT	
F	RELOCATE EXISTING MAILBOX	
G	REMOVE EXISTING GRAVEL	
H	REMOVE EXISTING HEADWALL	

- SITE LAYOUT NOTES**
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
 - ALL RADII ARE DIMENSIONED FROM BACK OF CURB. IF NOT STATED, RADIUS DIMENSION IS 5'.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
 - AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
 - ALL CURB AND GUTTER OFFSITE SHALL BE 30" WIDE UNLESS NOTED OTHERWISE.
 - ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS.
 - RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
 - COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
 - PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
 - ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.
 - REFER TO SHEET C2.0 FOR THE CTP COMPLIANCE DIAGRAM.

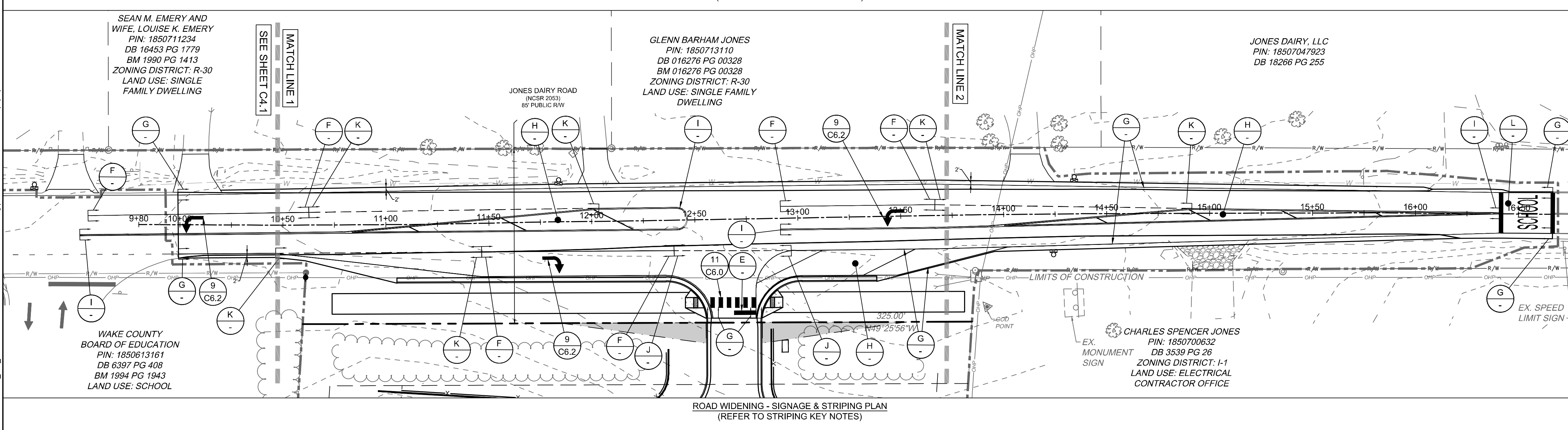
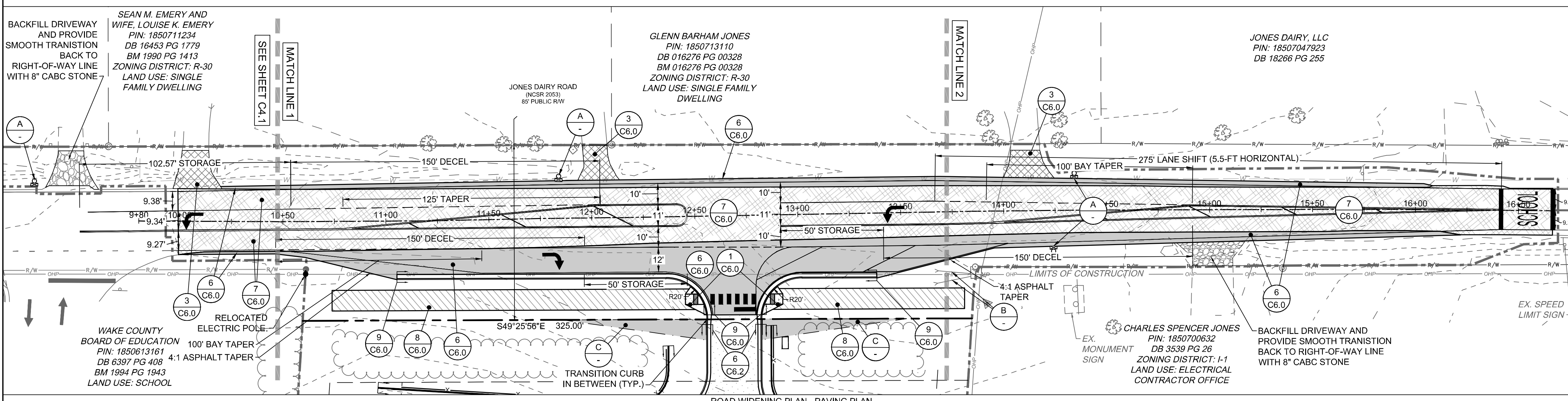
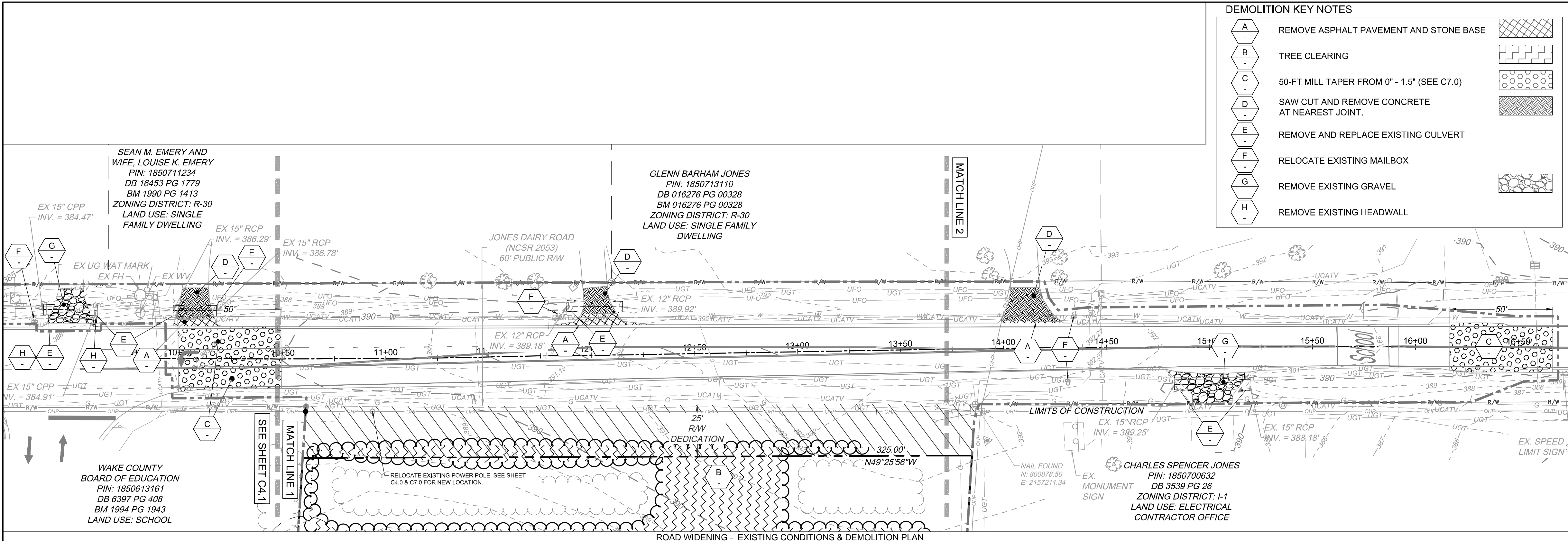
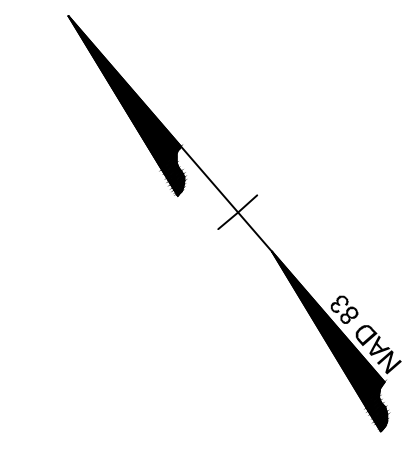
SITE PLAN KEY NOTES

1 C6.0	ACCESSIBLE CURB RAMP	
3 C6.0	HEAVY DUTY CONCRETE PAVEMENT	
6 C6.0	NCDOT ASPHALT (FULL DEPTH)	
7 C6.0	NCDOT OVERLAY	
8 C6.0	ASPHALT MULTI-USE PATH	
9 C6.0	NCDOT 30" CONCRETE CURB & GUTTER	
6 C6.2	24" CONCRETE CURB & GUTTER	
A	RELOCATED MAILBOX	
B	RELOCATE OR PROVIDE TURN DOWN GUY WIRE BAR	
C	10-FT X 70-FT SIGHT TRIANGLE	

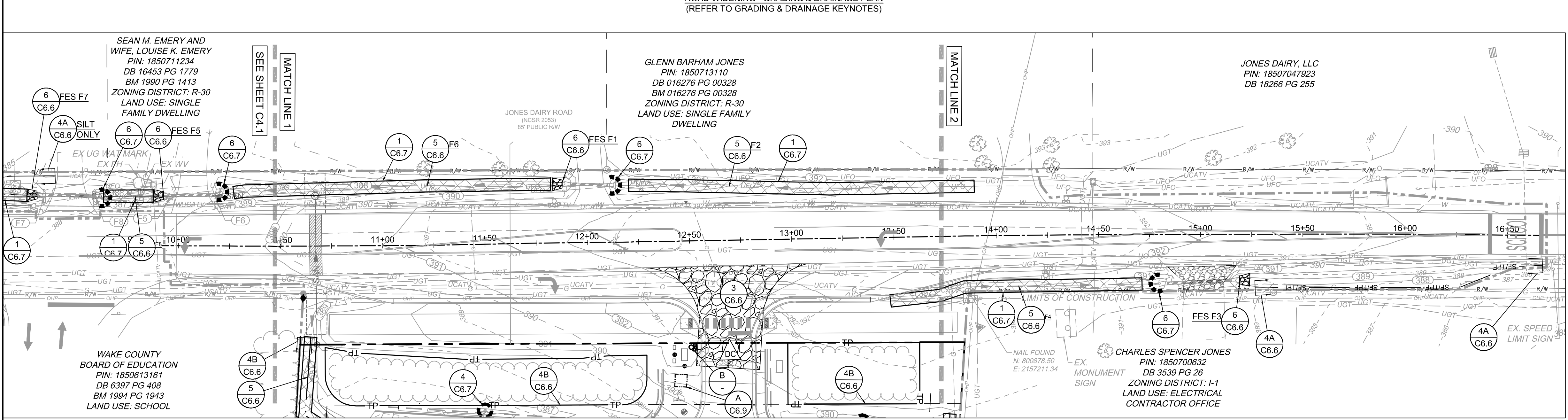
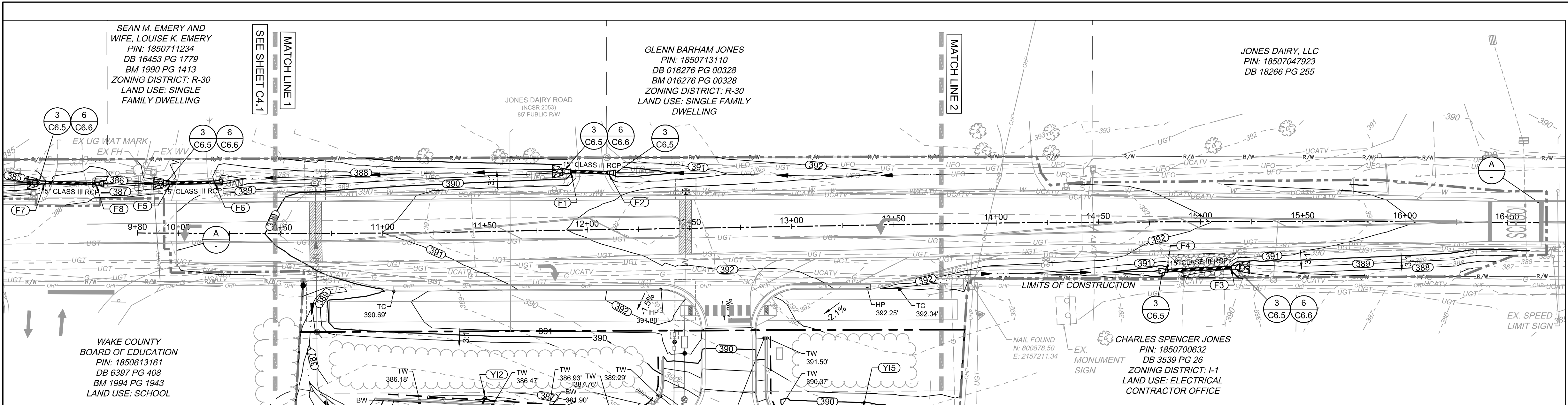
- TRAFFIC CONTROL NOTES**
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
 - ALL PAVEMENT MARKINGS WITHIN RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
 - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
 - ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
 - SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
 - ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
 - "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
 - "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

STRIPING KEY NOTES

	NCDOT STD.	WIDTH	COLOR
11 C6.0	HIGH VISIBILITY CROSSWALK MARKINGS	-	WHITE
9 C6.2	TRAFFIC ARROWS	1205.08	WHITE
E	STOP BAR	1205.01	24-IN WHITE
F	LANE LINE	1205.1	4-IN WHITE
G	EDGE LINE	1205.1	4-IN WHITE
H	DIAGONAL LINES (2:1 SLOPE 45-FT SPACING)	1205.1	8-IN YELLOW
I	DOUBLE YELLOW CENTER LINE	1205.1	4-IN (EA) YELLOW
J	2'-6" SPI MINI SKIP LINE	1205.1	4-IN WHITE
K	3'-9" SPI MINI SKIP LINE	1205.1	4-IN WHITE
L	MULTI-LANE WIDTH "SCHOOL"	1205.8	WHITE



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GRADING & DRAINAGE NOTES

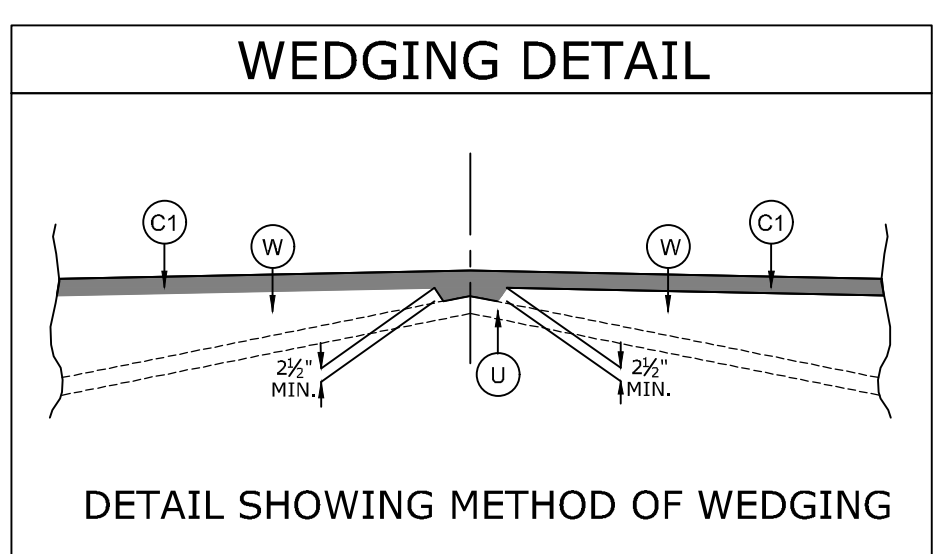
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
- COORDINATE THE PROJECT SCHEDULE WITH THE OWNER, AND ADJACENT USERS OF THE PROPERTY, MAINTAIN TRAFFIC FLOW AND DO NOT INTERRUPT UTILITIES AROUND THE SITE. DO NOT DISTURB OPERATIONS OF ADJACENT SITES AND FACILITIES AND/OR THEIR OWNER'S ONGOING OPERATIONS.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
- ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE.
- SPOT GRADE ABBREVIATIONS:
 - TC: TOP OF CURB
 - EP: EDGE OF PAVEMENT
 - HP: HIGH POINT
 - SWK: SIDEWALK
 - F5: FINISHED FLOOR ELEVATION
 - TW: TOP OF WALL
 - BW: BOTTOM OF WALL
 - FL: FLOW LINE
 - GND: GROUND
 - EX GND: EXISTING GROUND
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- ALL ELEVATIONS ARE BASED ON NC GRID NORTH (NAD 83 2011).
- THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES. PRIVATE UTILITIES SHALL BE LOCATED BY A PRIVATE LOCATE SERVICE AT THE EXPENSE OF THE CONTRACTOR.
- INSTALL ALL STORM SEWERS TO PROVIDE REQUIRED CLEARANCES TO CROSSING UTILITIES AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- PROVIDE HALF-BENCH CONCRETE INLET SHAPING FOR ALL CONCRETE STORM SEWER STRUCTURES.
- ALL ROOF DRAINS FROM BUILDING 'A' SHALL BE 8" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. ALL ROOF DRAINS FROM BUILDING 'B', 'C', AND 'D' SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN. MATCH PIPE CROWNS WITH CONNECTION TO DROP INLET.
- PVC ROOF DRAIN PIPING UNDER PAVEMENT SHALL HAVE 24-IN MINIMUM COVER. IF ROOF DRAIN PIPING UNDER PAVEMENT HAS LESS THAN 24-IN COVER, ROOF DRAIN PIPING SHALL BE 8" DIP (IN LIEU OF PVC).
- JOINT FILL AND CAULK EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
- MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH NCDCEQ LAND QUALITY REQUIREMENTS AND AS DIRECTED BY THE NCDCEQ AND CIVIL ENGINEER.
- FLUSH ALL SEDIMENT OUT OF STORM DRAINAGE PIPES AND STRUCTURES FOLLOWING SITE STABILIZATION AND AT THE END OF CONSTRUCTION. FLUSH OUT PIPES AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
- IN DISTURBED AREAS, AMEND THE TOP 6 INCHES OF LAWN AREAS WITH TOPSOIL FROM THE SITE.
- ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER & ENGINEER PRIOR TO POURING ANY CONCRETE. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

NCDOT STORM PIPE TABLE

PIPE #	DIA	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
F2-F1	15"	389.00	388.75	1.40%	17.85 LF	15" CLASS III RCP
F4-F3	15"	388.75	388.25	1.59%	31.45 LF	15" CLASS III RCP
F6-F5	15"	386.50	386.00	2.40%	20.83 LF	15" CLASS III RCP
F8-F7	15"	385.25	384.75	2.04%	24.54 LF	15" CLASS III RCP

EROSION CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
- ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
- ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
- THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
- SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
- TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
- ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
- TOTAL DISTURBED AREA: 5.93 AC.



NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0C AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.

PAVEMENT SCHEDULE

Code	Description
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

NCDOT STORM STRUCTURE TABLE

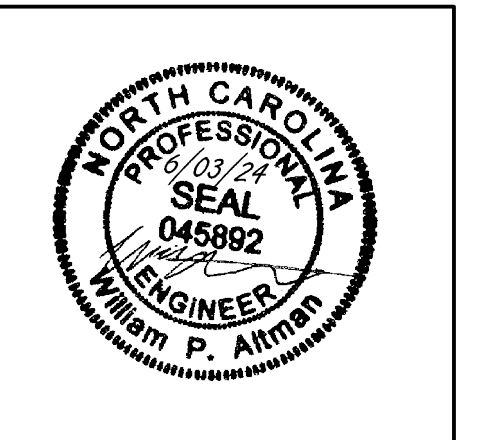
STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
F1	390.44	N/A	15" FES
F2	390.19	N/A	15" FES
F3	389.69	N/A	15" FES
F4	390.19	N/A	15" FES
F5	387.44	N/A	15" FES
F6	387.94	N/A	15" FES
F7	386.19	N/A	15" FES
F8	386.69	N/A </td <td>15" FES</td>	15" FES

GRADING & DRAINAGE KEY NOTES

- 3 C6.5: FLARED END SECTION
- 6 C6.6: RIP RAP OUTLET PROTECTION (SEE EROSION CONTROL PLAN)
- A: PROVIDE SMOOTH PAVING TRANSITION

EROSION CONTROL KEYNOTES

- 3 C6.6: GRAVEL CONSTRUCTION ENTRANCE
- 4A C6.6: SILT FENCE (COMBINATION FENCE; SEE TREE FENCE DETAIL)
- 4B C6.6: TREE PROTECTION FENCE
- 5 C6.6: TEMPORARY DIVERSION DITCH
- 6 C6.6: RIPRAP OUTLET PROTECTION
- 1 C6.7: TEMPORARY CHANNEL LINING
- 4 C6.7: INLET PROTECTION
- 6 C6.7: PIPE INLET PROTECTION
- A C6.9: CONCRETE WASHOUT AREA
- B: RAIN GAUGE AND PERMIT RECORDS BOX
- : LIMITS OF CONSTRUCTION
- - - - -: EXISTING CONTOUR
- +—+—: FINISHED CONTOUR
- DC: DUST CONTROL



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03/27/2024	ADDRESSED NCDOT REVIEW COMMENTS
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06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023
 DRAWN BY: L. BARNES
 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD WIDENING PLAN - GRADING, DRAINAGE & EROSION CONTROL PLAN

JOB NO. 54832
 SHEET NO. C7.1

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L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

SCALE
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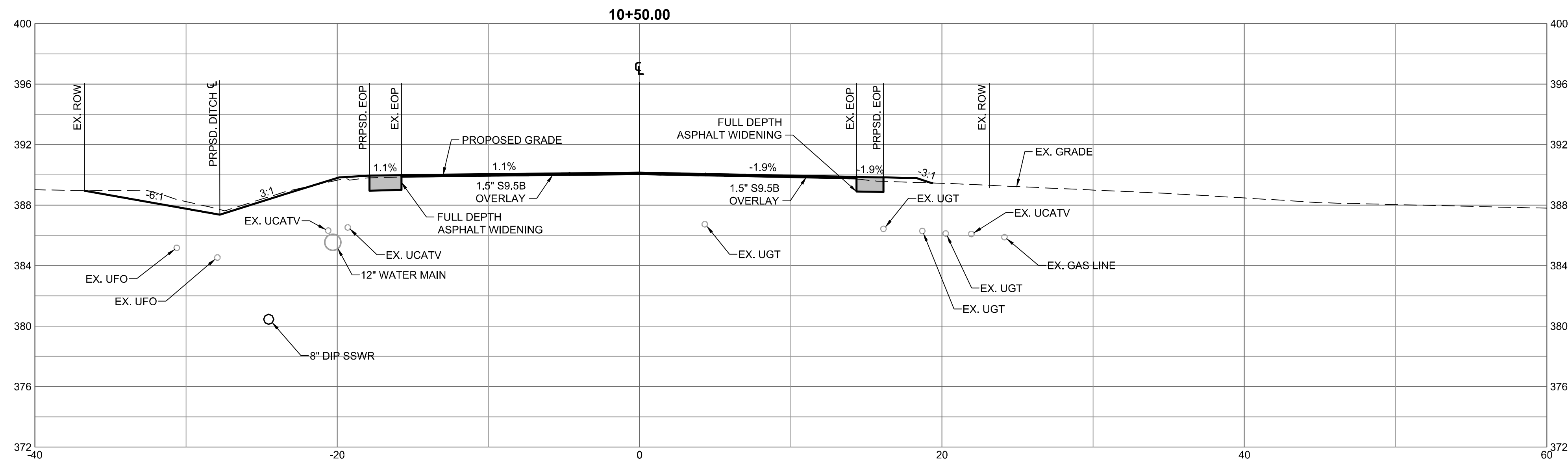
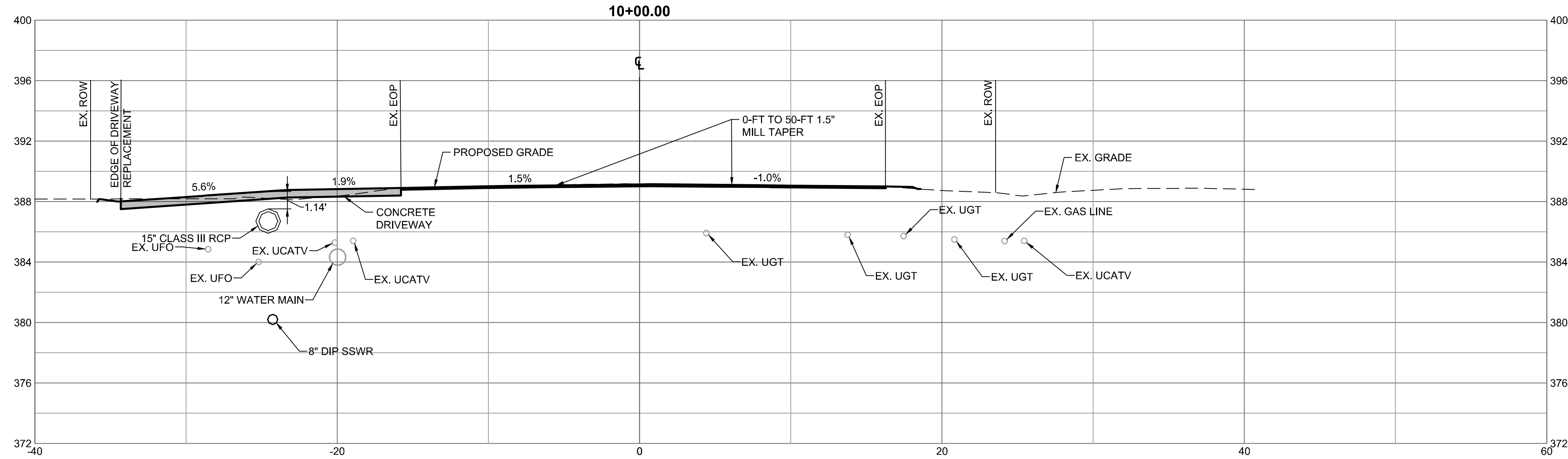
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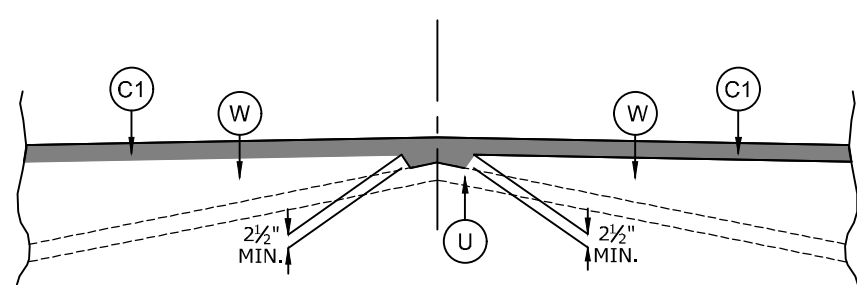
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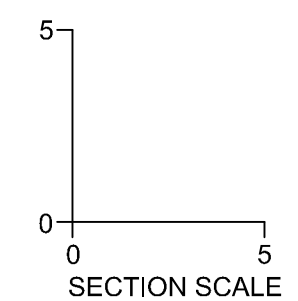
WEDGING DETAIL



NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.

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U	EXISTING PAVEMENT





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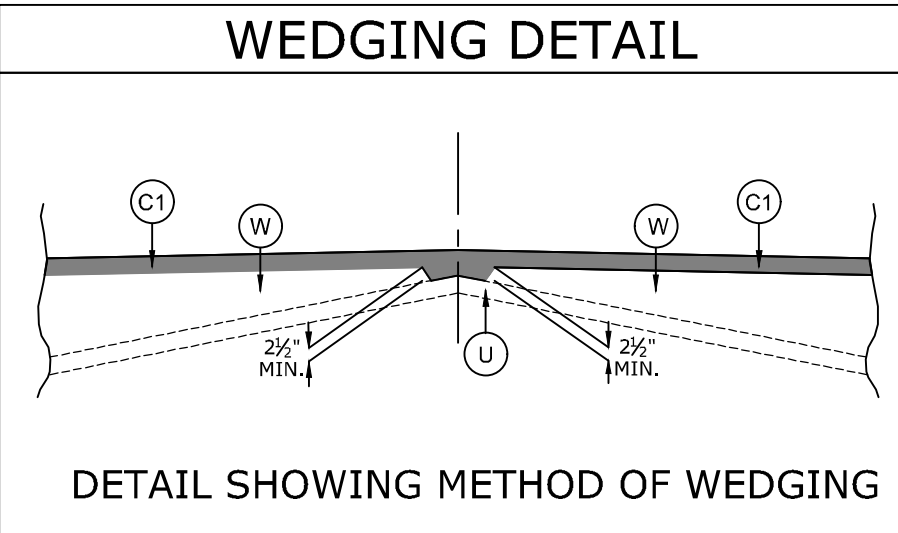
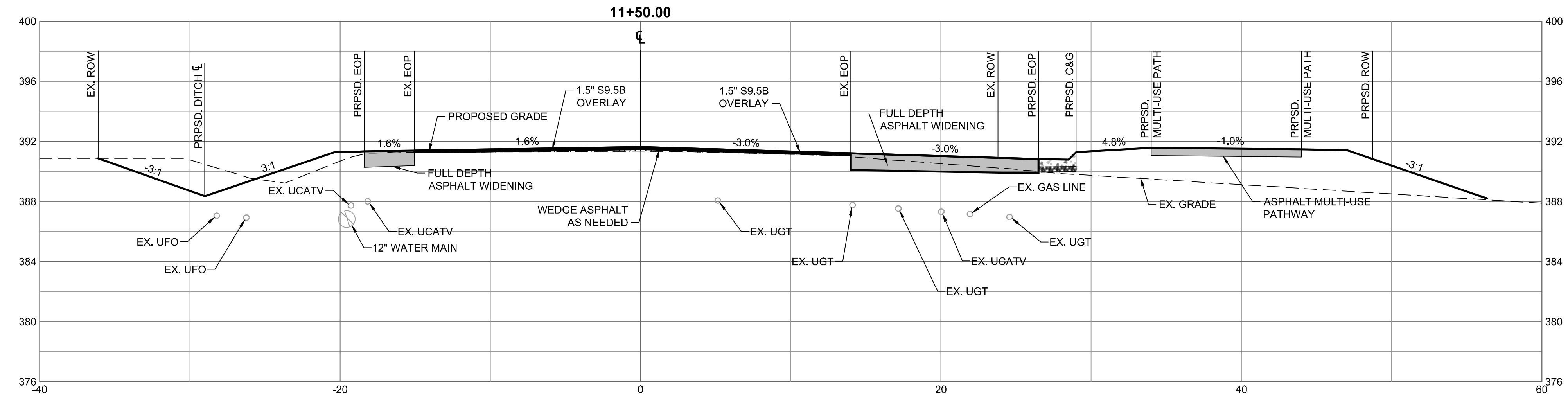
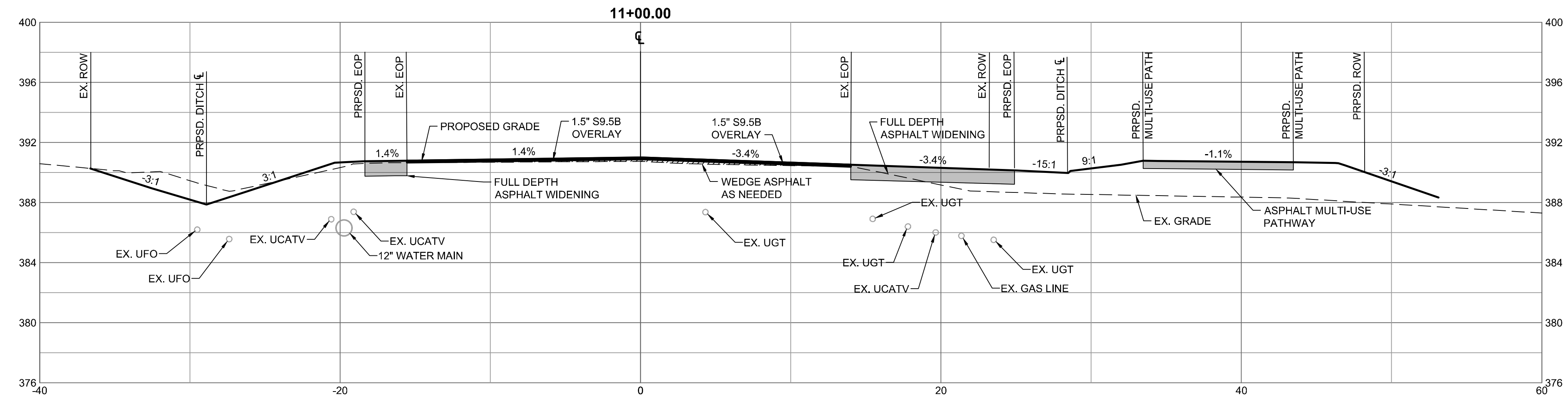
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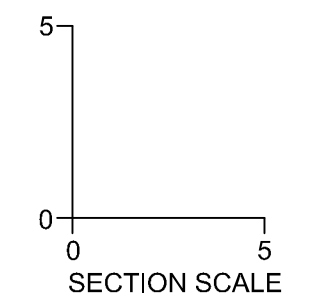
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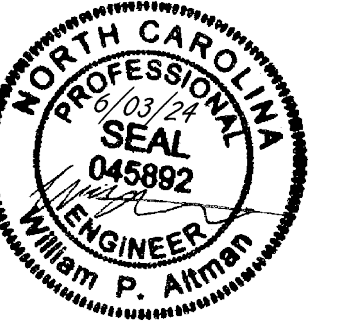


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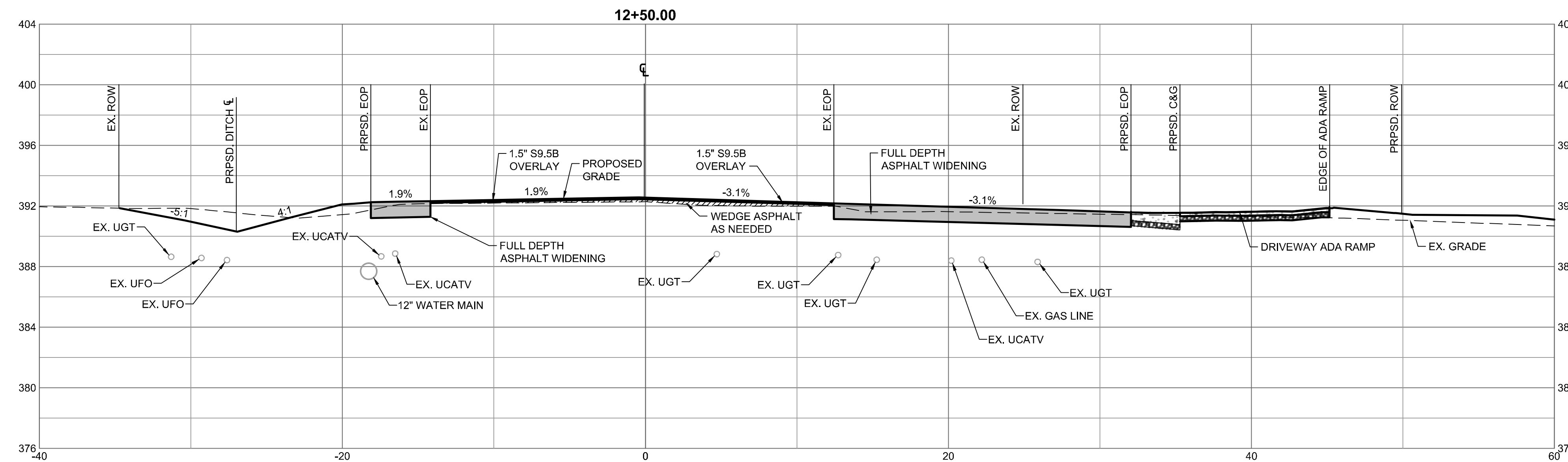
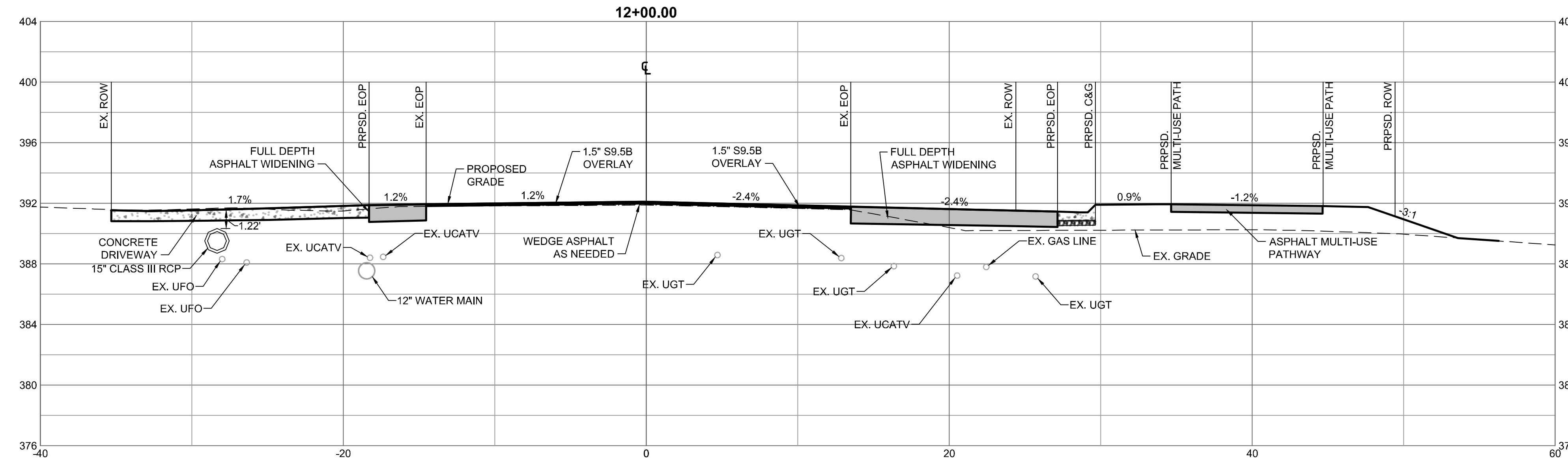


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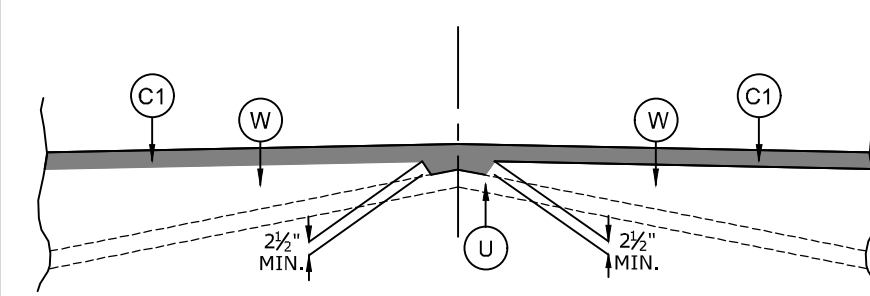
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 DESIGNED BY: W. ALTMAN
 CHECKED BY: W. ALTMAN
 SCALE: AS SHOWN



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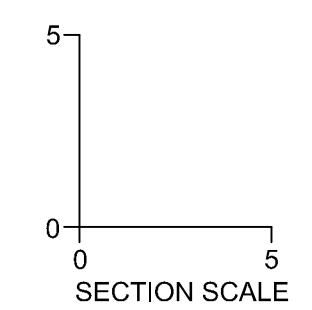


DETAIL SHOWING METHOD OF WEDGING

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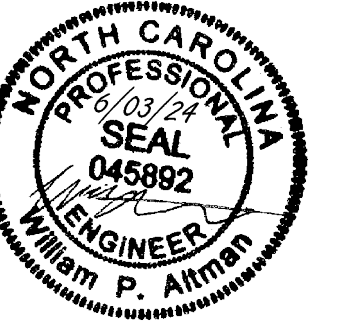


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JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
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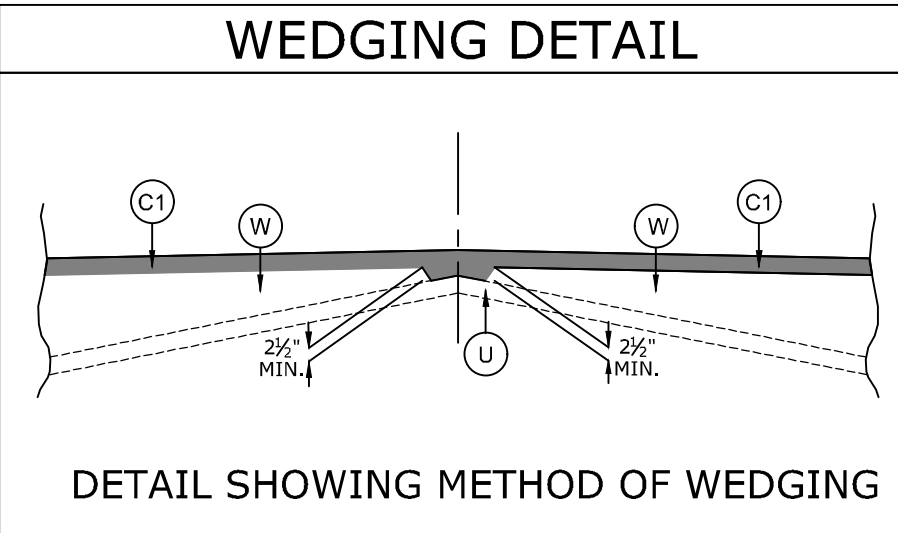
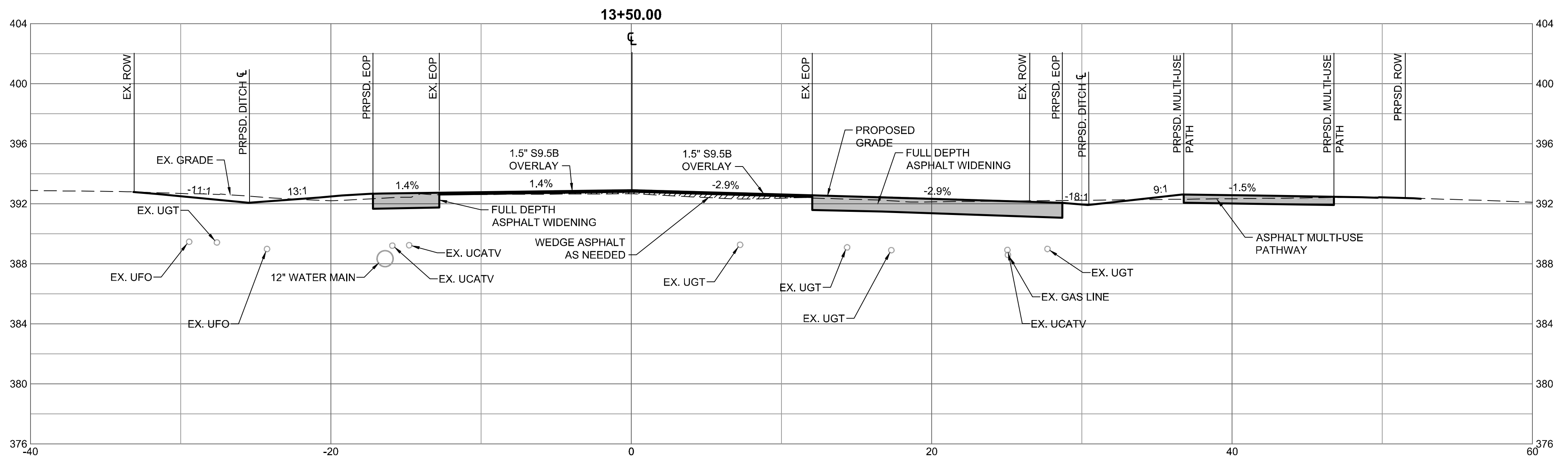
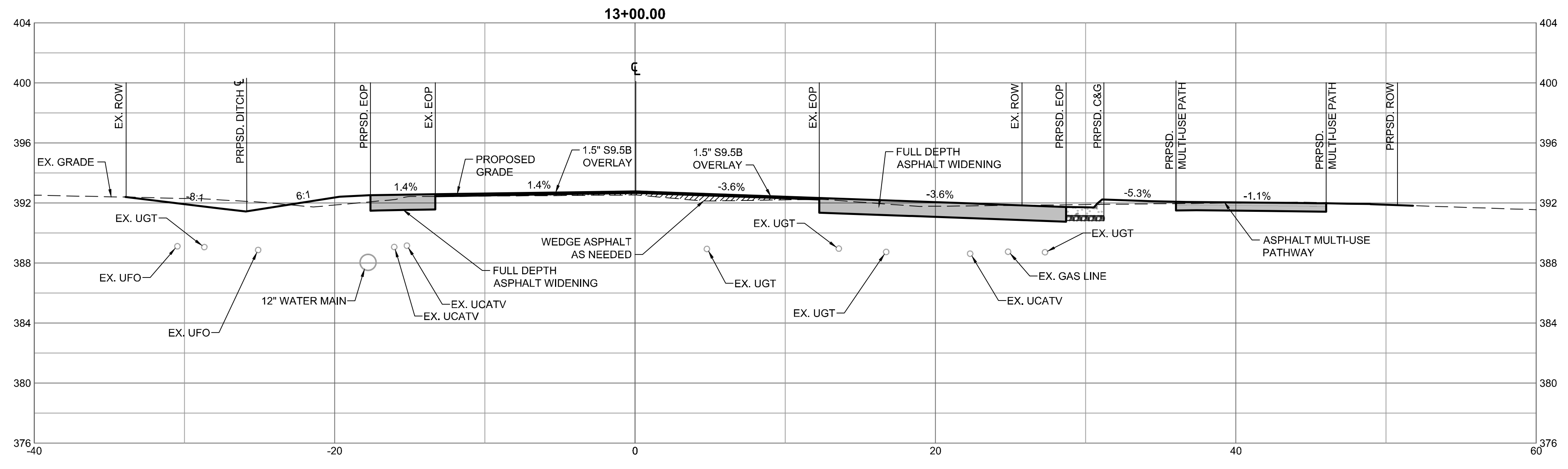
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 DRAWN BY
 L. BARNES
 DESIGNED BY
 W. ALTMAN
 CHECKED BY
 W. ALTMAN
 SCALE
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 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
JONES DAIRY ROAD - CROSS SECTIONS STA. 13+00 - 13+50

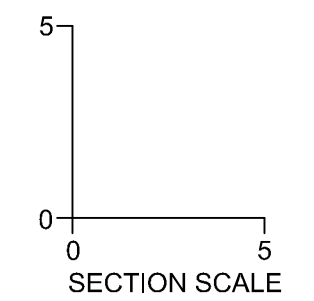
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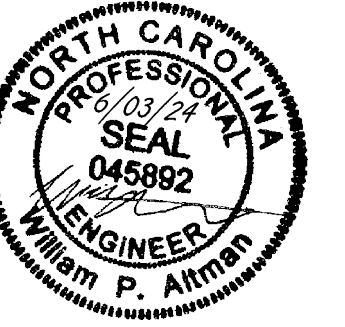
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U	EXISTING PAVEMENT





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DESIGNED BY	W. ALTMAN
CHECKED BY	W. ALTMAN
SCALE	AS SHOWN

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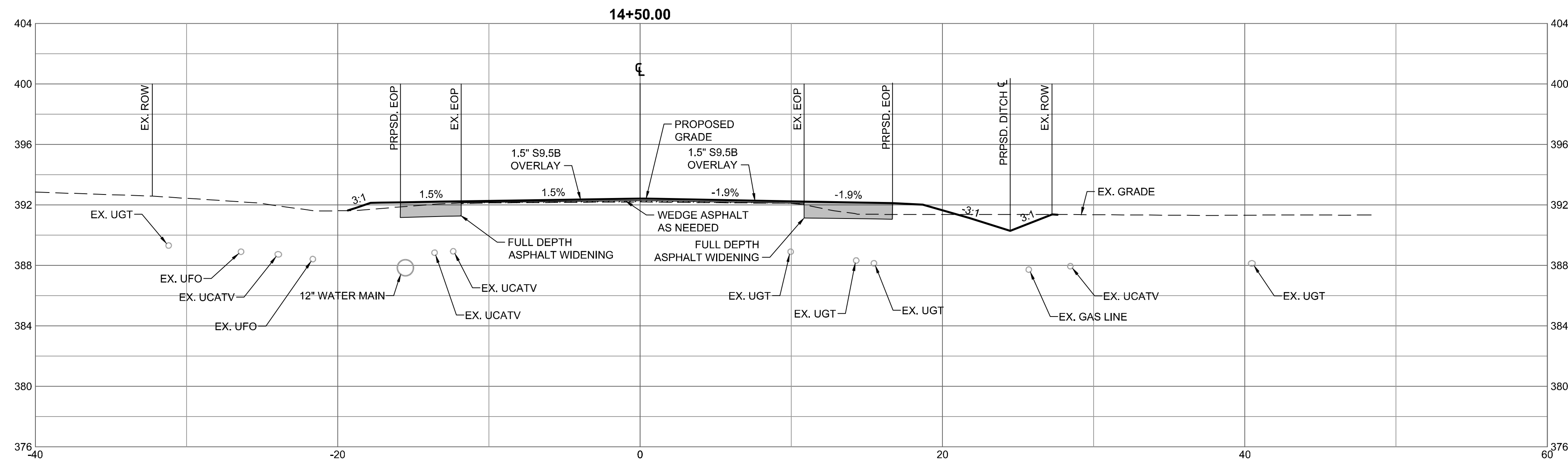
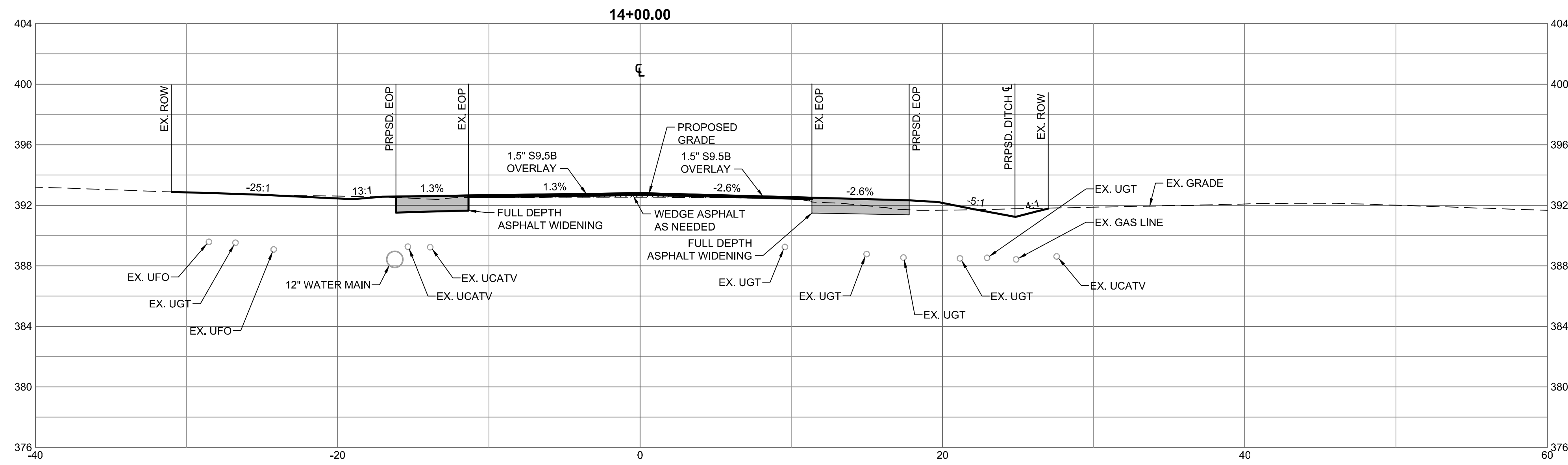
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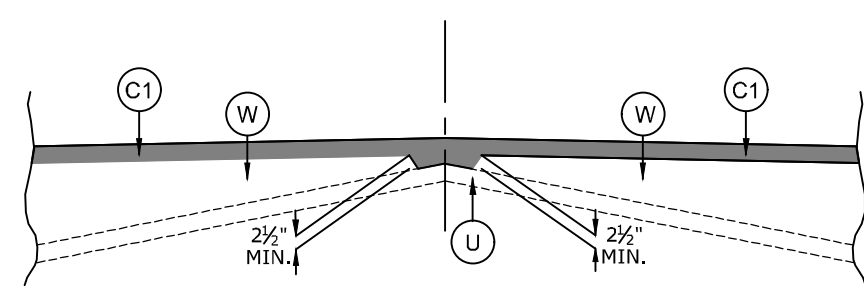
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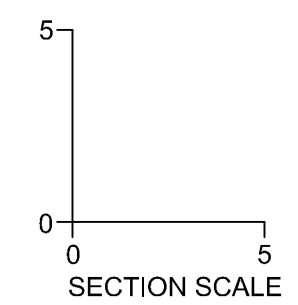
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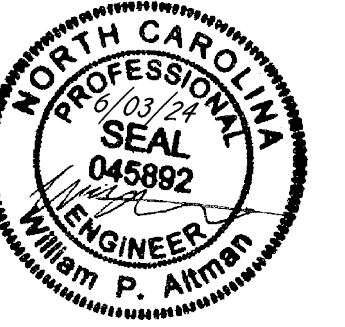


PAVEMENT SCHEDULE

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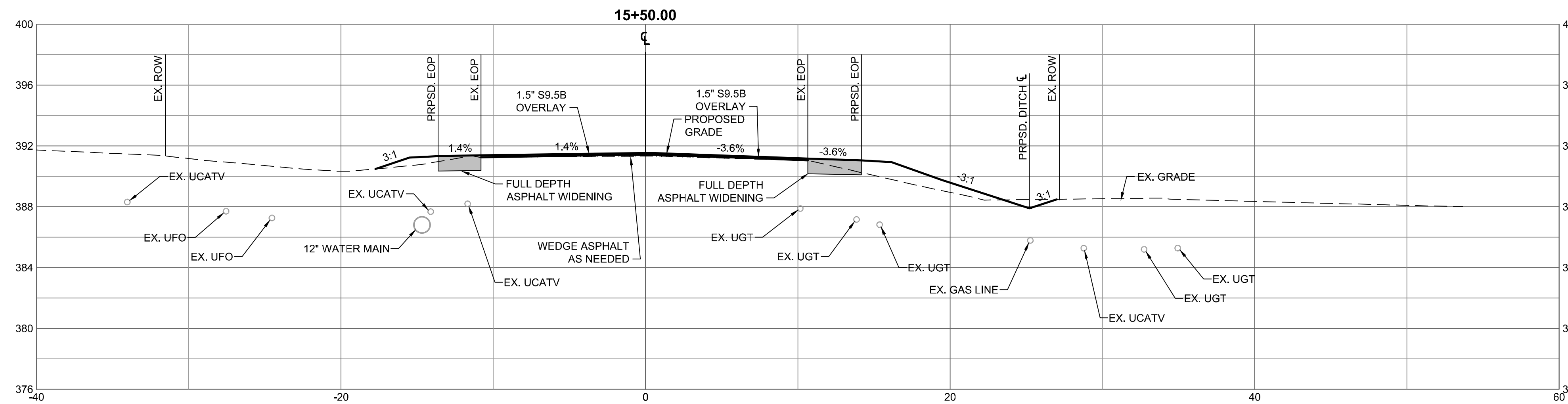
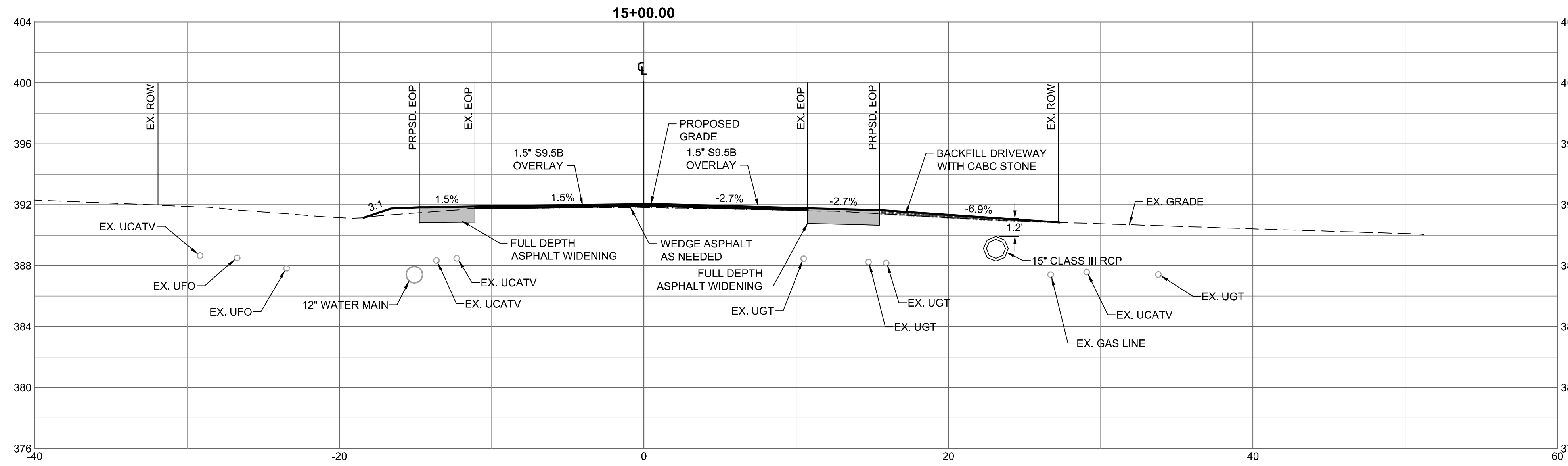
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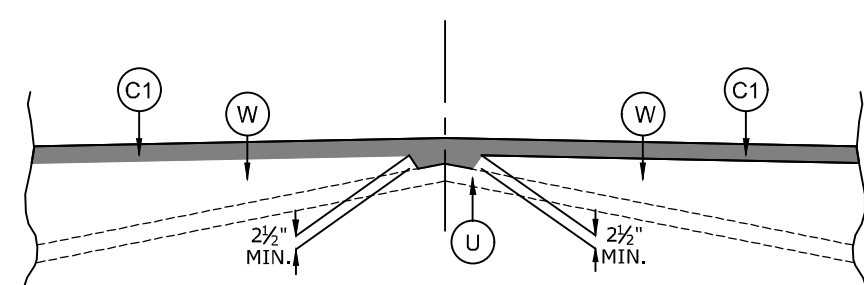
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WEDGING DETAIL

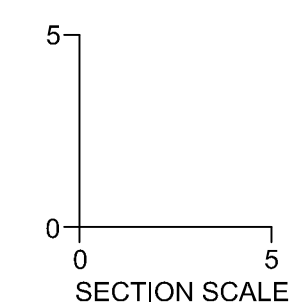


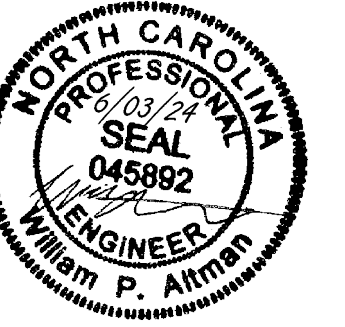
DETAIL SHOWING METHOD OF WEDGING

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DATE
04/05/2023

DRAWN BY
L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

SCALE
AS SHOWN

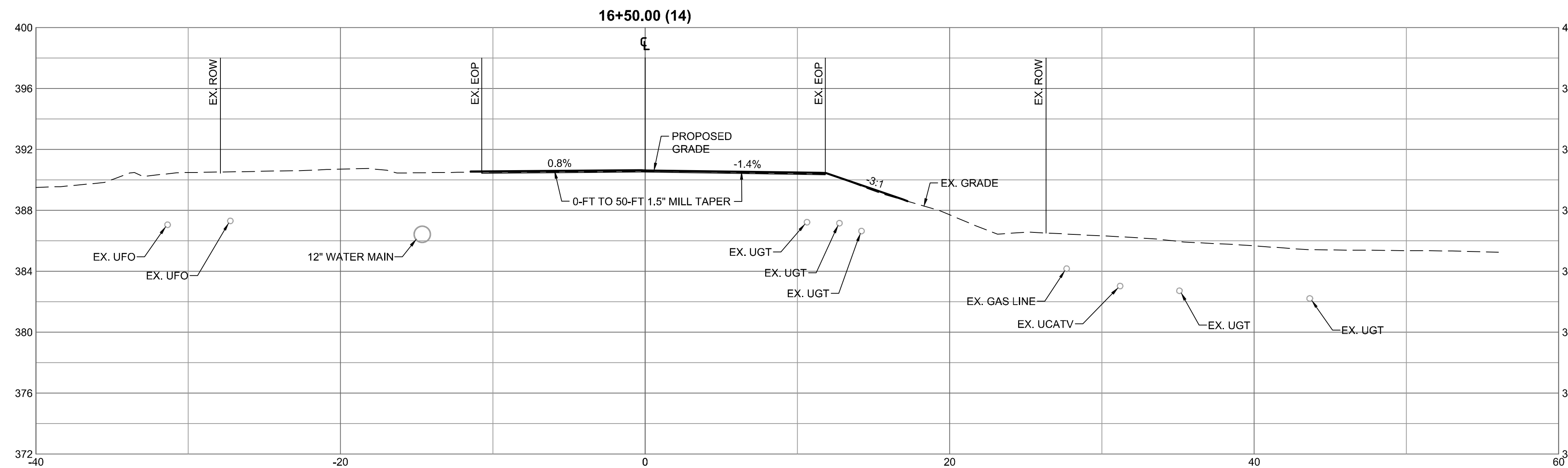
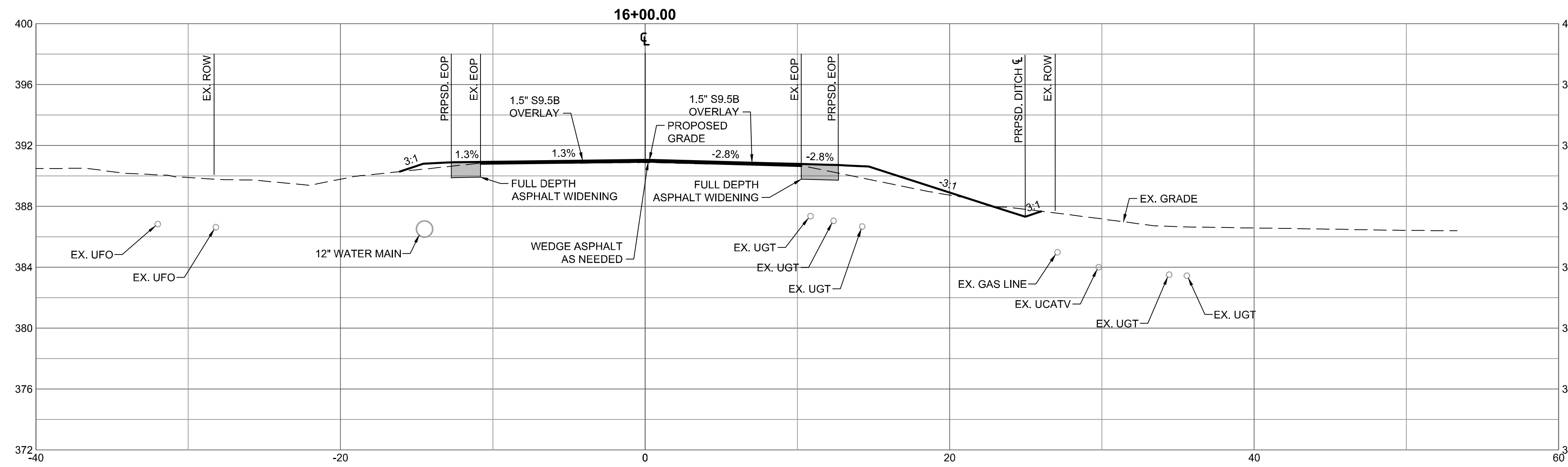
NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

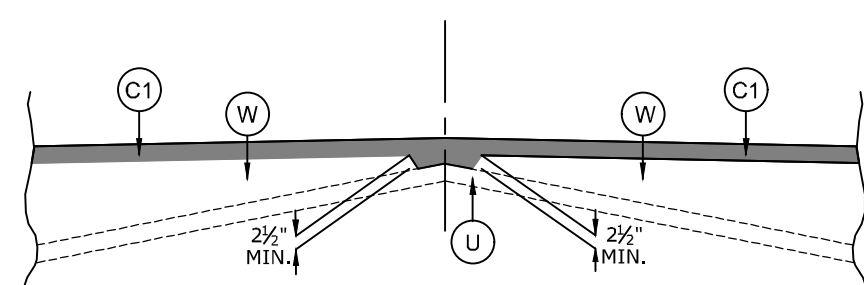
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WEDGING DETAIL



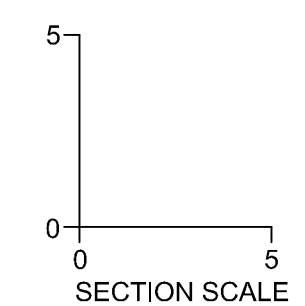
DETAIL SHOWING METHOD OF WEDGING

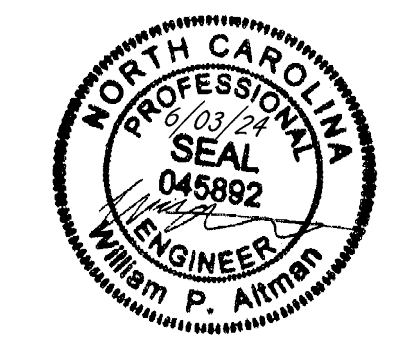
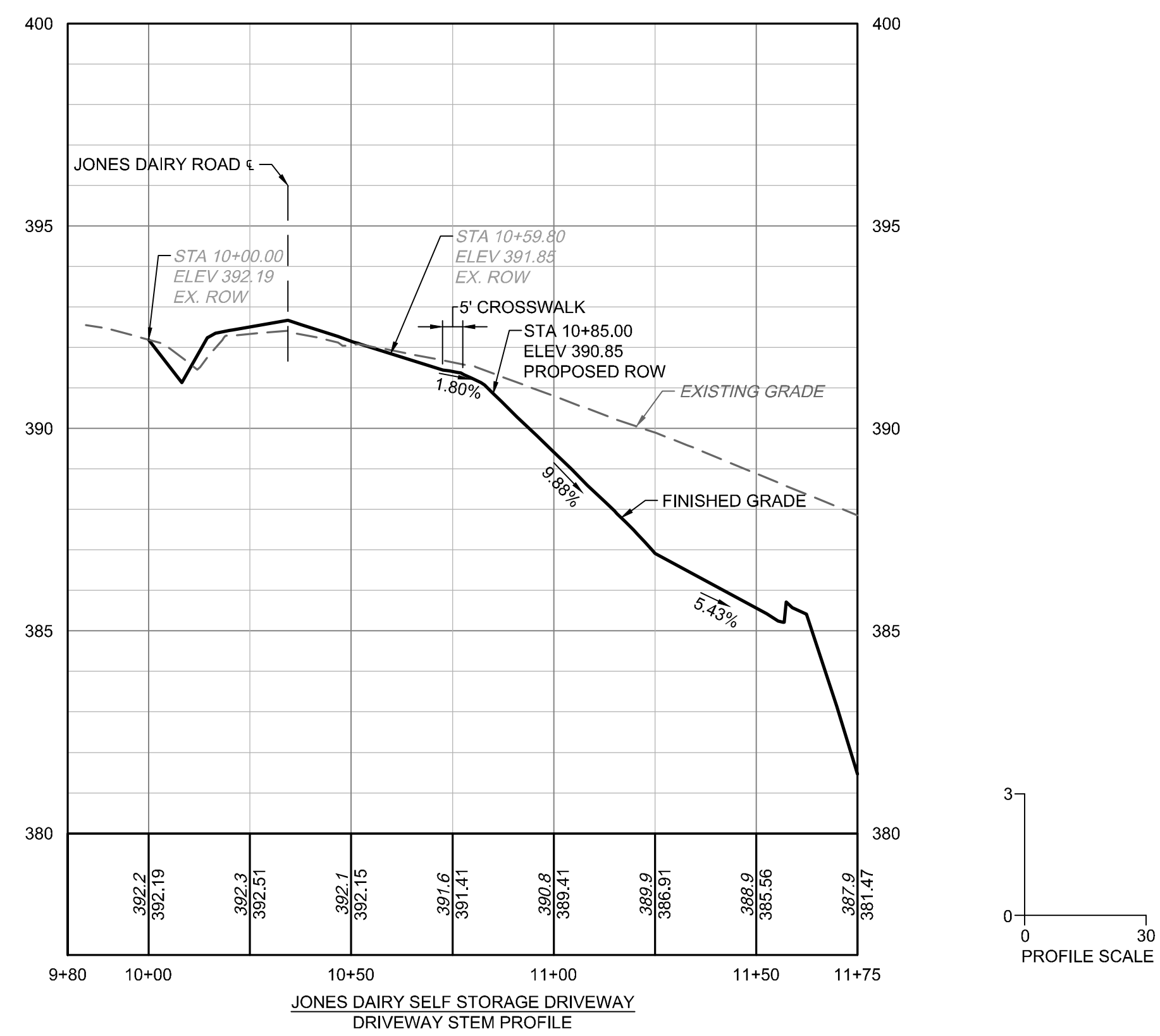
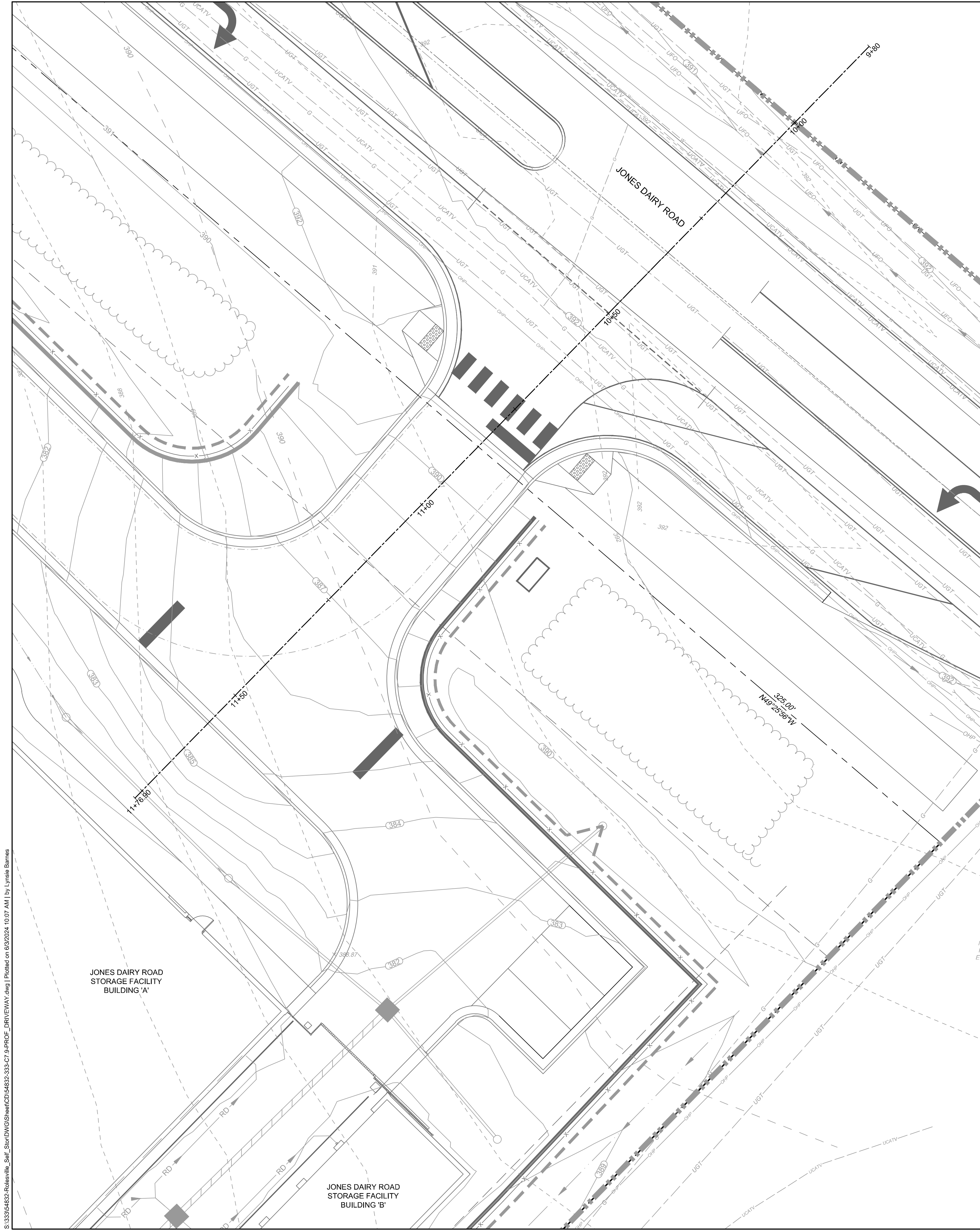
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

S:\33304832-Rolesville_Sm_ShorDWG\Sheet\C7.8-C7.8-ASEC.dwg | Printed on 6/3/2024 10:06 AM | by Lynak Barnes

NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.





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DATE
04/05/2023

DRAWN BY
L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

SCALE
AS SHOWN

DATE
08/07/2023
11/01/2023
03/21/2024
05/01/2024
06/03/2024

REVISION DESCRIPTION
ADDRESSSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
ADDRESSSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
ADDRESSSED NC DOT REVIEW COMMENTS
ADDRESSSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
ADDRESSSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE

DATE

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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

JONES DAIRY ROAD DRIVEWAY STEM PROFILE

JOB NO.
54832

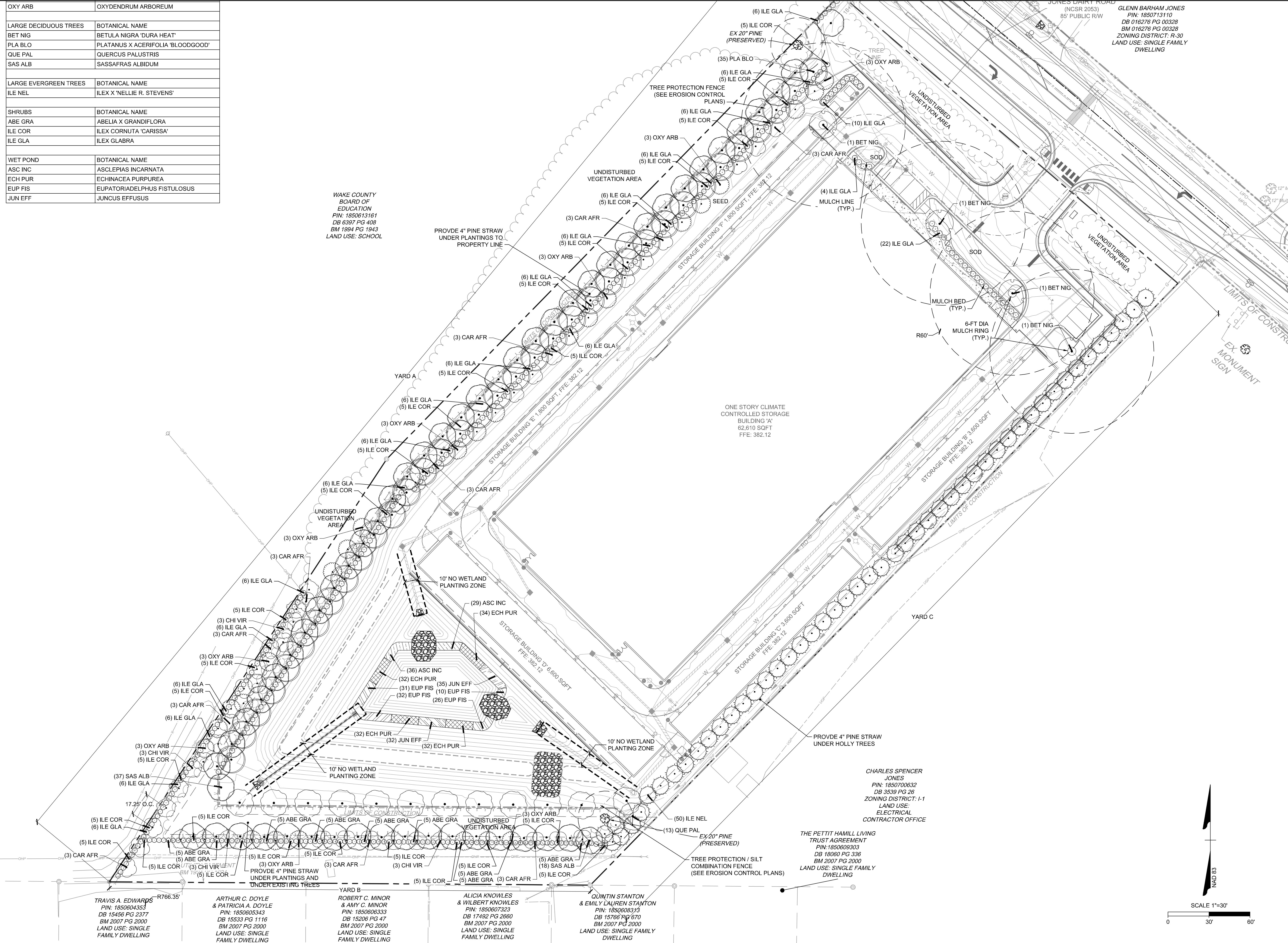
SHEET NO.
C7.9

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S:\33354832-Rolesville_Site_SitePlan\DWG\Sheet\C7.9-PROF_DRIVEWAY.dwg | Printed on 03/20/24, 10:07 AM | by Lynise Blumes

OXY ARB	OXYDENDRUM ARBOREUM
LARGE DECIDUOUS TREES	BOTANICAL NAME
BET NIG	BETULA NIGRA 'DURA HEAT'
PLA BLO	PLATANUS X ACERIFOLIA 'BLOODGOOD'
QUE PAL	QUERCUS PALUSTRIS
SAS ALB	SASSAFRAS ALBIDUM
LARGE EVERGREEN TREES	BOTANICAL NAME
ILE NEL	ILEX X 'NELLIE R. STEVENS'
SHRUBS	BOTANICAL NAME
ABE GRA	ABELIA X GRANDIFLORA
ILE COR	ILEX CORNUTA 'CARISSA'
ILE GLA	ILEX GLABRA
WET POND	BOTANICAL NAME
ASC INC	ASCLEPIAS INCARNATA
ECH PUR	ECHINACEA PURPUREA
EUP FIS	EUPATORIADELPHUS FISTULOSUS
JUN EFF	JUNCUS EFFUSUS

WAKE COUNTY
BOARD OF
EDUCATION
PIN: 1850613161
DB 6397 PG 408
BM 1894 PG 1943
LAND USE: SCHOOL



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03/21/2024	ADDRESSED NC DOT REVIEW COMMENTS
05/01/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE: 04/05/2023
DRAWN BY: L. BARNES
DESIGNED BY: W. ALTMAN
CHECKED BY: W. ALTMAN
SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

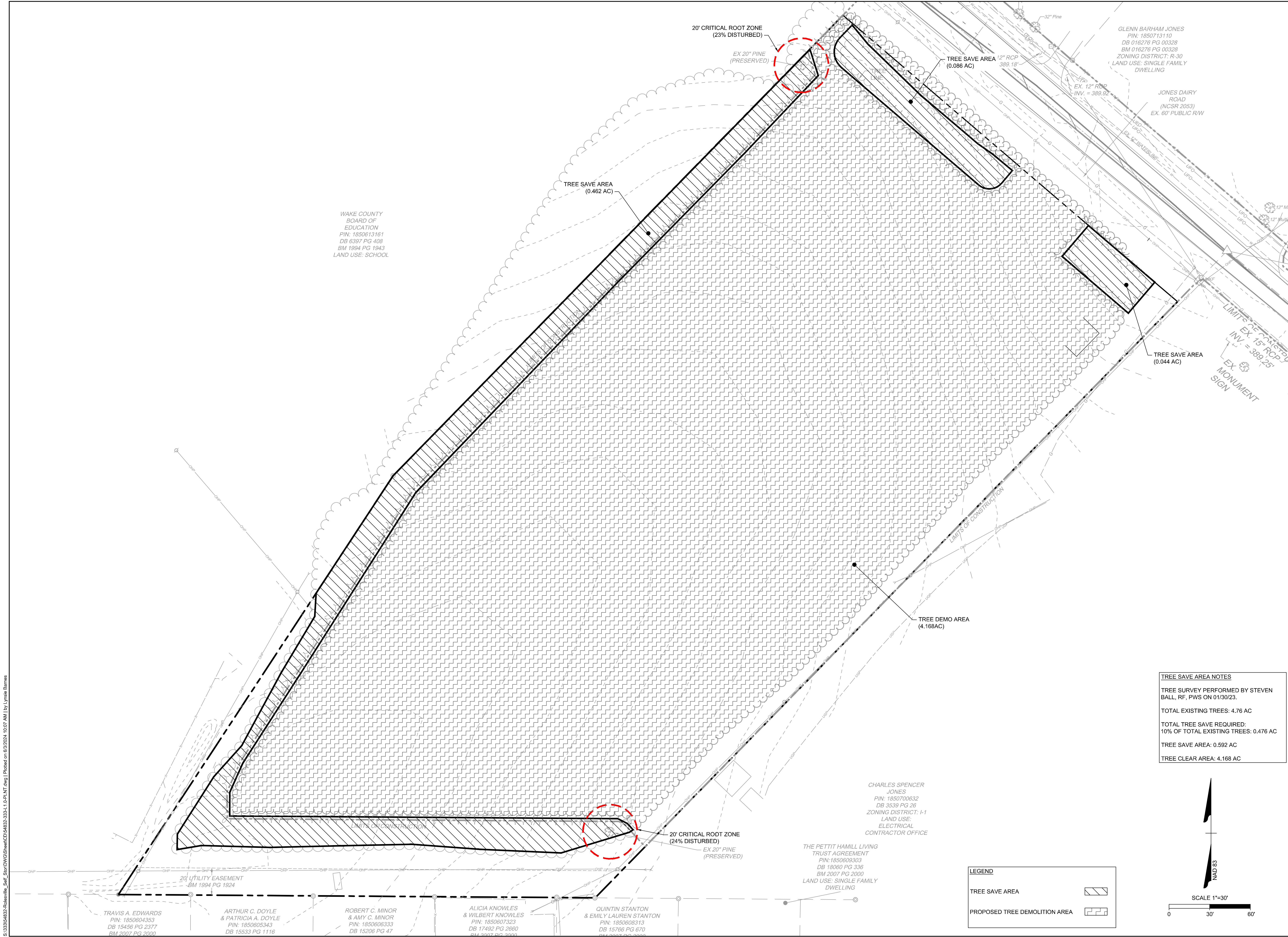
JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

JOB NO. 54832
SHEET NO. L1.0

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WAKE COUNTY
BOARD OF
EDUCATION
PIN: 1850613181
DB 6397 PG 408
BM 1994 PG 1943
LAND USE: SCHOOL

GLENN BARHAM JONES
PIN: 1850713110
DB 016276 PG 00328
BM 016276 PG 00328
ZONING DISTRICT: R-30
LAND USE: SINGLE FAMILY
DWELLING

JONES DAIRY
ROAD
(NCSR 2053)
EX. 60' PUBLIC R/W

TREE SAVE AREA
(0.462 AC)

TREE SAVE AREA
(0.086 AC)

TREE SAVE AREA
(0.044 AC)

TREE DEMO AREA
(4.168 AC)

20' CRITICAL ROOT ZONE
(24% DISTURBED)

EX 20" PINE
(PRESERVED)

CHARLES SPENCER
JONES
PIN: 1850700632
DB 3539 PG 26
ZONING DISTRICT: I-1
LAND USE:
ELECTRICAL
CONTRACTOR OFFICE

THE PETTIT HAMILL LIVING
TRUST AGREEMENT
PIN: 1850609303
DB 18060 PG 336
BM 2007 PG 2000
LAND USE: SINGLE FAMILY
DWELLING

TRAVIS A. EDWARDS
PIN: 1850604353
DB 15456 PG 2377
BM 2007 PG 2000

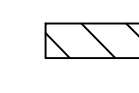
ARTHUR C. DOYLE
& PATRICIA A. DOYLE
PIN: 1850605343
DB 15533 PG 1116

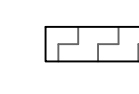
ROBERT C. MINOR
& AMY C. MINOR
PIN: 1850606333
DB 15206 PG 47

ALICIA KNOWLES
& WILBERT KNOWLES
PIN: 1850607323
DB 17492 PG 2680
BM 2007 PG 2000

QUINTIN STANTON
& EMILY LAUREN STANTON
PIN: 1850608313
DB 15766 PG 670
BM 2007 PG 2000

LEGEND

TREE SAVE AREA 

PROPOSED TREE DEMOLITION AREA 

TREE SAVE AREA NOTES

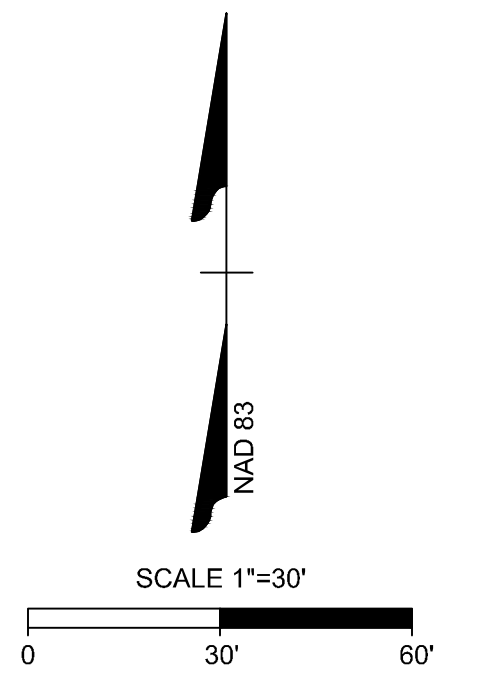
TREE SURVEY PERFORMED BY STEVEN BALL, RF, PWS ON 01/30/23.

TOTAL EXISTING TREES: 4.76 AC

TOTAL TREE SAVE REQUIRED:
10% OF TOTAL EXISTING TREES: 0.476 AC

TREE SAVE AREA: 0.592 AC

TREE CLEAR AREA: 4.168 AC



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11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS
03/21/2024	ADDRESSED NCOT REVIEW COMMENTS
05/01/2024	ADDRESSED TOWN OF ROLESVILLE 4TH REVIEW COMMENTS
06/03/2024	ADDRESSED TOWN OF ROLESVILLE 5TH REVIEW COMMENTS

DATE
04/05/2023

DRAWN BY
L. BARNES

DESIGNED BY
W. ALTMAN

CHECKED BY
W. ALTMAN

SCALE
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

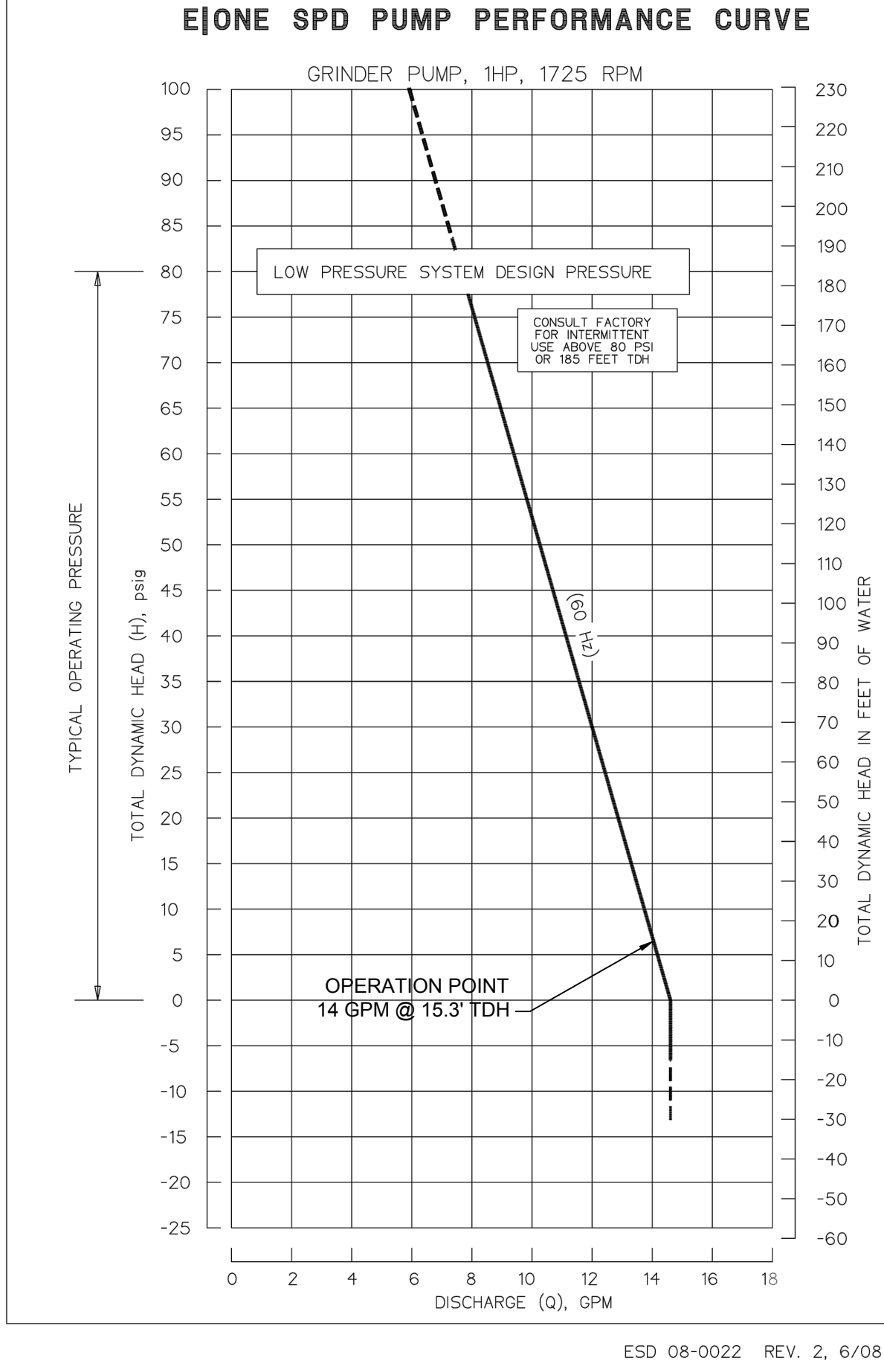
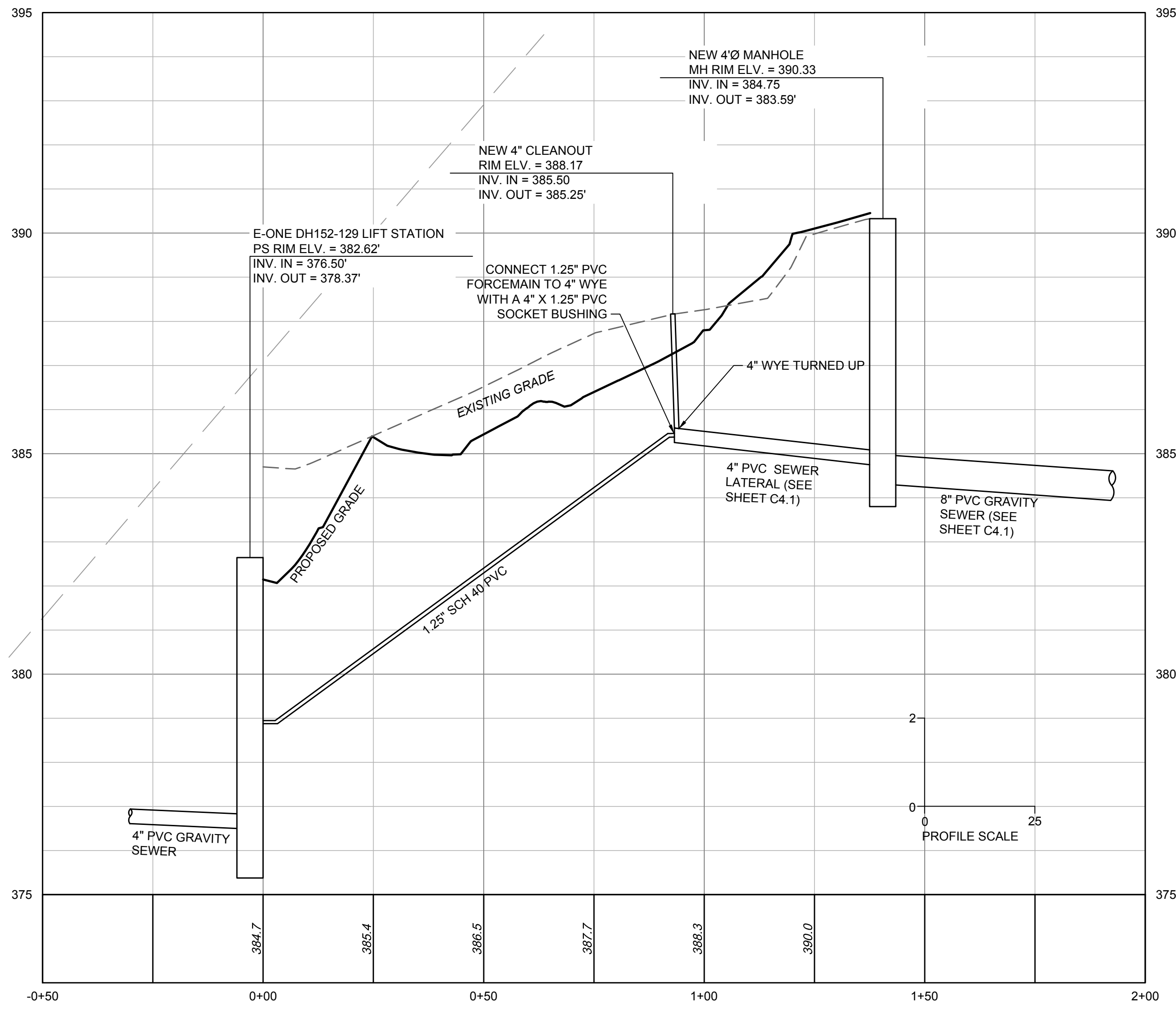
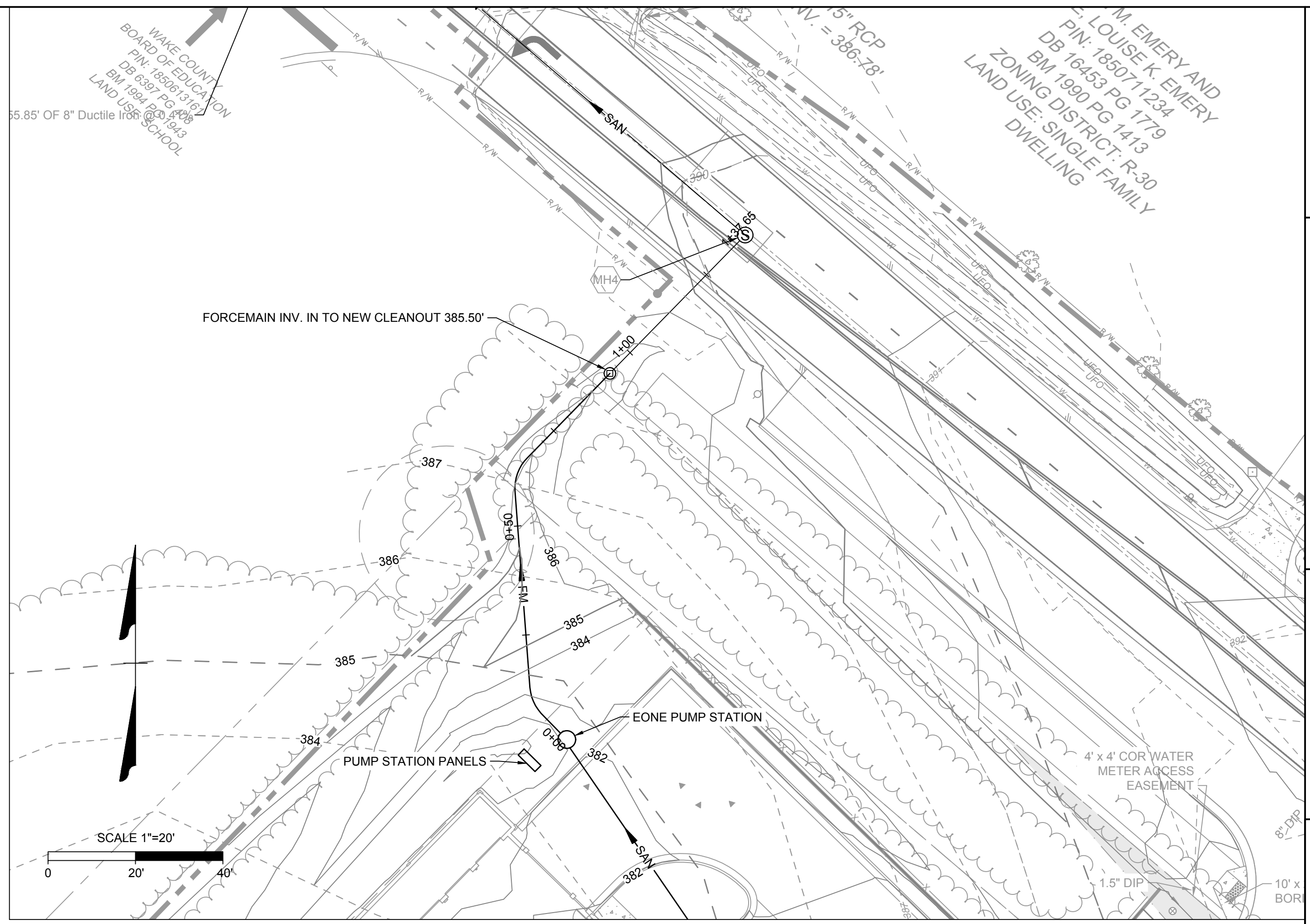
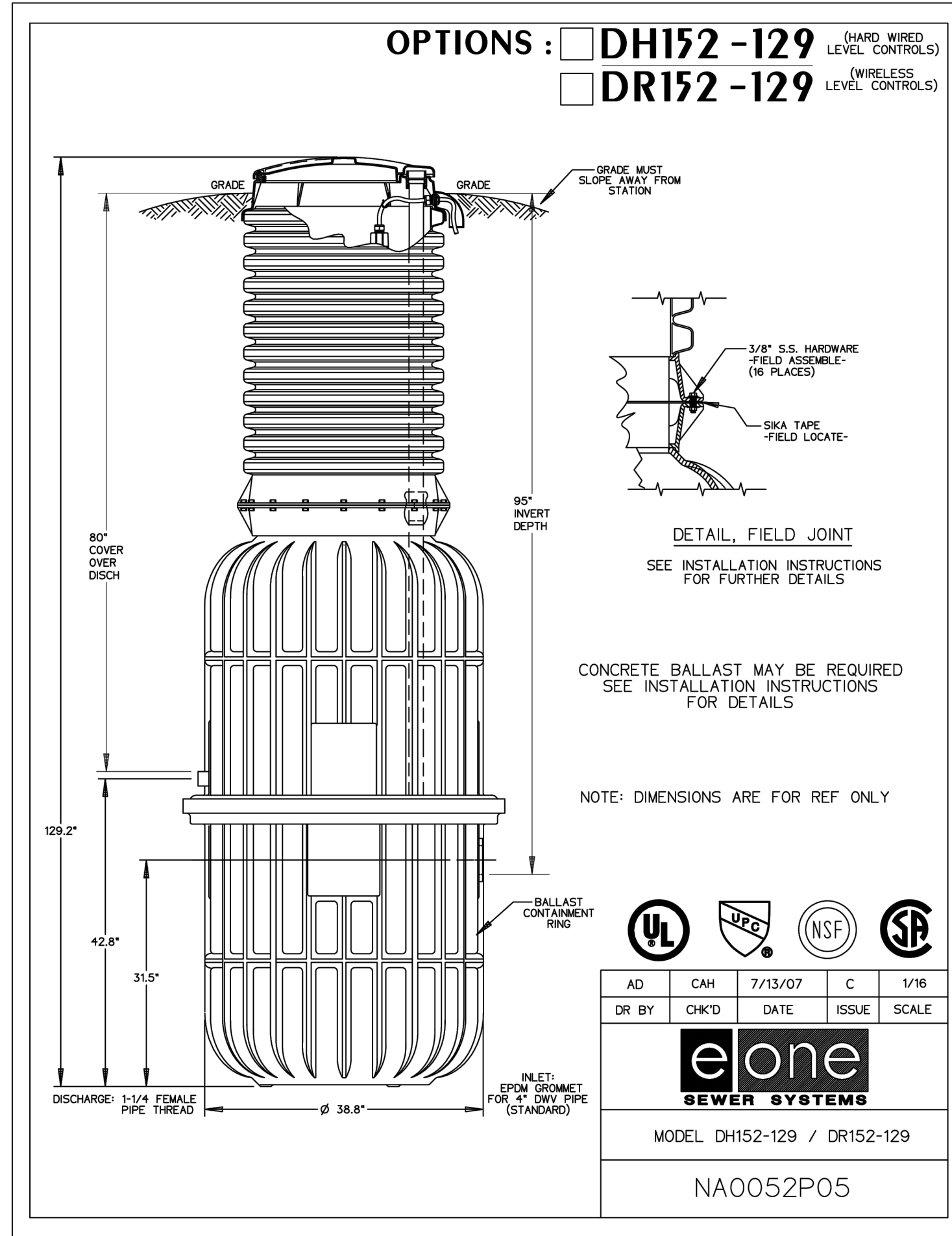
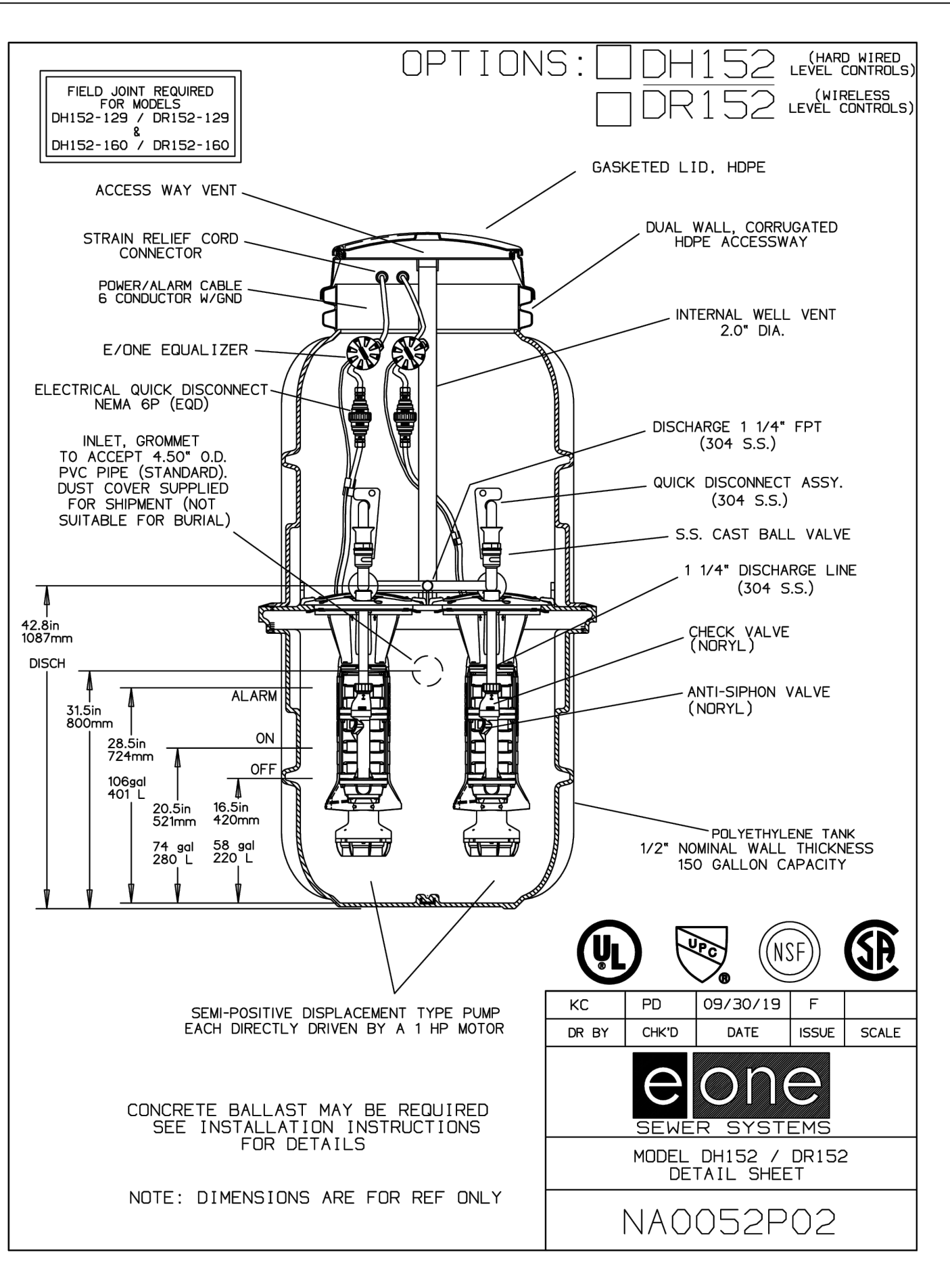
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

TREE PRESERVATION PLAN

JOB NO.
54832

SHEET NO.
L1.1

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DESIGN CRITERIA:

- PUMP STATION IS NOT LOCATED WITHIN 100-YR FLOODPLAIN ACCORDING TO FEMA FIRM MAP 3720185000K EFF. 07/19/2022.
- THE ROLESVILLE STORAGE FACILITY PUMP STATION HAS BEEN DESIGNED TO HANDLE AN AVERAGE DAILY FLOW OF 1,570 GALLONS PER DAY (GPD) BASED ON 15A NCAC 02T FLOW RULES: 1 GPD PER STORAGE UNIT. THE PEAK INFLUENT RATE IS 2.73 GALLONS PER MINUTE BASED ON A PEAKING FACTOR OF 2.5. THE STATION WILL BE A DUPLEX ENVIRONMENT ONE STATION (OR APPROVED EQUAL) WITH A 1.25" SCH 40 PVC FORCE MAIN, WHICH WILL DISCHARGE TO AN PROPOSED 4" CLEANOUT LOCATED AT THE RIGHT OF WAY.
- PUMP STATION FLOWS ARE HANDLED BY A SINGLE ENVIRONMENT ONE SUBMERSIBLE GRINDER PUMP OR APPROVED EQUIVALENT OPERATING AT THE RATE SHOWN BELOW. A SECOND ENVIRONMENT ONE PUMP IS PROVIDED FOR REDUNDANCY.
- THE DESIGN PUMPING RATE IS 14 GPM AT 15.3' TDH UTILIZING A SINGLE PUMP.

PUMP STATION NOTES:

- ALL PUMP STATION COMPONENTS SHALL BE SUPPLIED BY ONE MANUFACTURER: ENVIRONMENT ONE OR APPROVED EQUIVALENT.
- CONTRACTOR TO MAINTAIN A DRY EXCAVATION UNTIL ALL BACKFILLING IS COMPLETED.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM PUMP STATION.
- A BACKUP GENERATOR WILL BE PROVIDED FOR THE BUILDING AND WILL BE SIZED TO SERVE THE REQUIRED PUMP STATION LOAD.

ELECTRICAL NOTES:

- ALL ABOVE-GRADE ENCLOSURES INSTALLED UNDER THIS CONTRACT SHALL BE PAD LOCKABLE AND NEMA 4X.
- ALL WIRE INSTALLED UNDER THIS CONTRACT SHALL BE COPPER.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS; AND THE RECOMMENDATIONS AND REQUIREMENTS OF THE EQUIPMENT MANUFACTURERS.
- NO ELECTRICAL SPLICES ALLOWED IN WET WELL.
- ALL EXTERIOR CONDUITS SHALL BE UNDERGROUND AND SHALL BE INSTALLED PER 1996 NEC TABLE 300-5 & TABLE 300-50 AND ARTICLE 300-6 (PROTECTION AGAINST CORROSION).
- EONE CELLULAR MODEM SENTRY ADVISOR AND SENTRY PROTECT PLUS DUPLEX SHALL BE COMBINED INTO ONE PANEL.



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REVISION DESCRIPTION
 07/31/2023 CHANGED THE PUMP STATION INVERT.

DATE 06/01/2023
 DRAWN BY L. SOLARI
 DESIGNED BY L. SOLARI
 CHECKED BY A. KABAT
 SCALE AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
PUMP STATION SITE AND FORCEMAIN

JOB NO. 54832
 SHEET NO. PS1.0

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REVISION DESCRIPTION	DATE

DATE
06/01/2023

DRAWN BY
L. SOLARI

DESIGNED BY
L. SOLARI

CHECKED BY
A. KABAT

SCALE
AS SHOWN

JOB NO.
54832

SHEET NO.
PS1.1

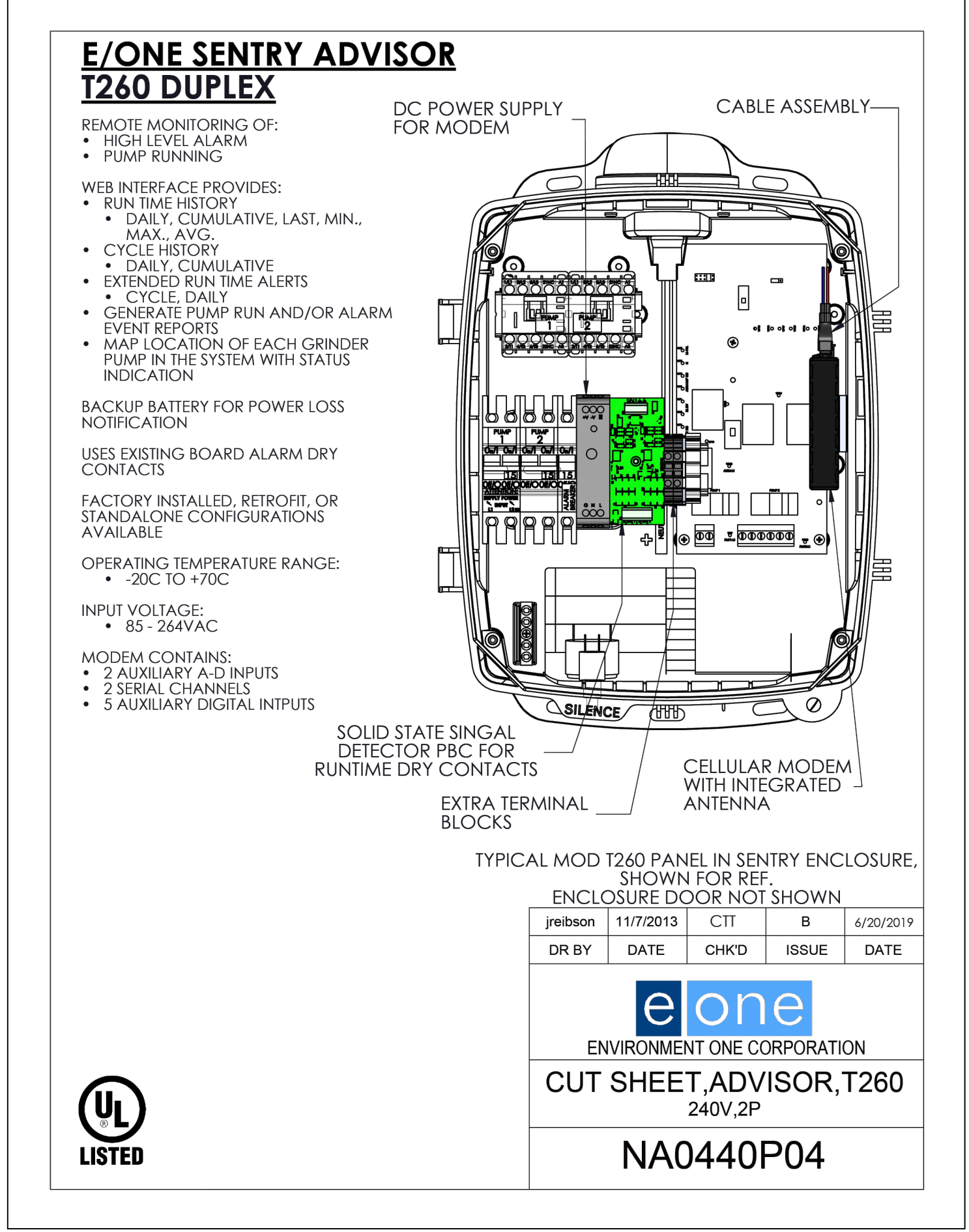
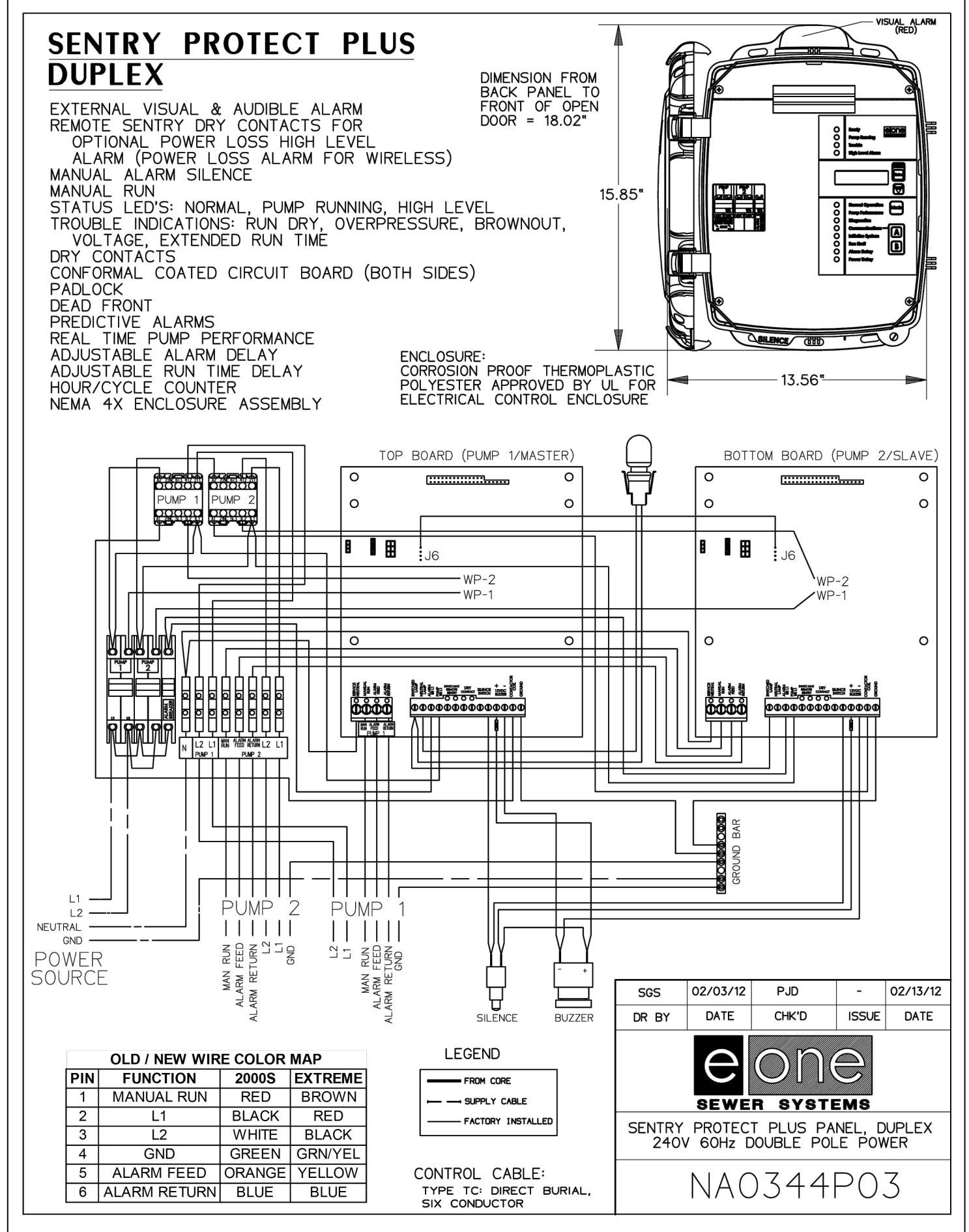
ROLESVILLE STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

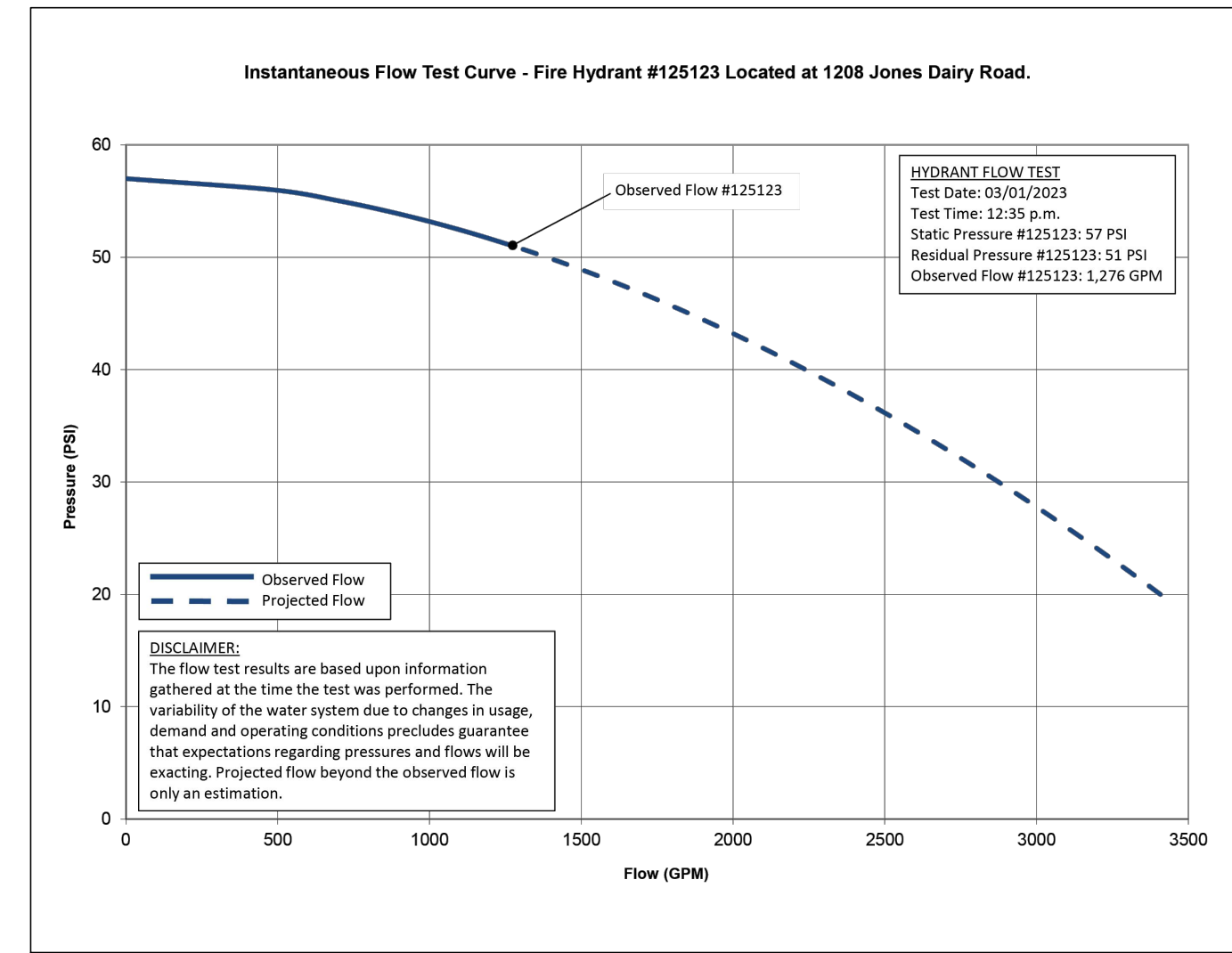
PUMP STATION NOTES AND DETAILS

NORTH CAROLINA LICENSE NO. C-1652

TIMMONS GROUP



AVAILABLE FLOW CURVE



AVAILABLE FIRE FLOW

FLOW SCENARIO	HYDRANTS			
	H-1	H-2	H-3	H-4
ELEVATION (FT)	383.4	383.4	388.0	383.3
AVAILABLE FIRE FLOW*	1,788	1,716	2,956	2,050
MINIMUM RESIDUAL PRESSURE DURING REQUIRED FIRE FLOW**	34.6	34.5	40.4	34.5

*AVAILABLE FIRE FLOW IS MEASURED, NON-SIMULTANEOUSLY, DURING THE MAX DAILY DEMAND SCENARIO AT A SYSTEM RESIDUAL PRESSURE LIMIT OF 20 PSI.
 **1,500 GPM IS REQUIRED AT EACH ONSITE HYDRANT.

RESIDUAL PRESSURE RESULTS (PSI)

FLOW SCENARIO	JUNCTIONS					HYDRANTS			
	J-1	J-2	J-3	J-4	J-5	H-1	H-2	H-3	H-4
ELEVATION (FT)	391.5	388.9	383.3	383.5	383.5	383.4	383.4	388.0	383.3
STATIC	55.5	56.6	54.0	53.9	58.8	53.9	53.9	57.0	54.0
AVERAGE DAILY DEMAND (ADD)	55.5	56.6	54.0	53.9	48.7	53.9	53.9	57.0	54.0
MAXIMUM DAILY DEMAND (MDD)	55.5	56.6	54.0	53.9	48.5	53.9	53.9	57.0	54.0
MDD + SPRINKLER	54.5	55.5	51.4	51.0	47.4	51.4	51.4	56.1	51.4

PIPE REPORT

LABEL	LENGTH (FT)	DIA (IN.)
P-1	59	8
P-2	9	8
P-3	67	8
P-4	35	6
P-5	276	8
P-6A	9	8
P-6B	364	8
P-7	8	1.5
P-8	5	1.5
P-10	103	1.5
P-11	202	12

DESIGN CRITERIA

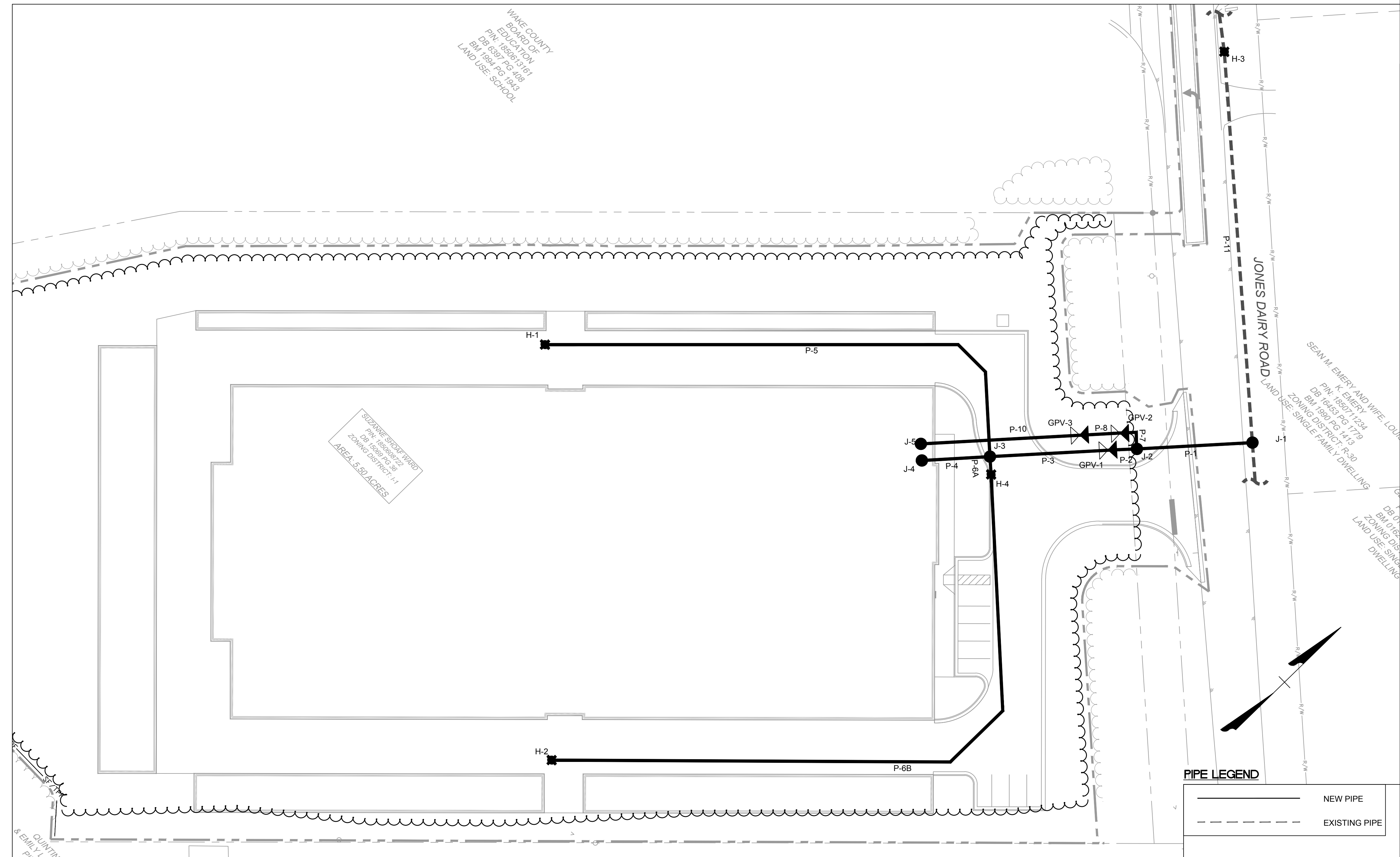
- FLOW INFORMATION WAS OBTAINED BY ASSOCIATED FIRE PROTECTION FROM ONE INSTANTANEOUS FLOW TEST ON 03/01/2023. THE FLOW TEST NODE IS THE EXISTING HYDRANT LOCATED ON THE EXISTING 12-INCH WATERLINE, AT 1208 JONES DAIRY ROAD. THE AVAILABLE FLOW CURVE IS SHOWN ON THIS SHEET.
- SYSTEM FLOW FOR IS REPRESENTED AT H-3 IN THE INCLUDED WATER MODEL LAYOUT.
- THIS WATER MODEL HAS BEEN PERFORMED TO EVALUATE AVAILABLE PRESSURE AND FLOW BASED ON THE INCLUDED WATER MODEL LAYOUT AND FLOW DEMAND CRITERIA. ALL WATERLINES WERE MODELED WITH A HAZEN-WILLIAMS ROUGHNESS COEFFICIENT OF 120.
- THE WATER MODEL LAYOUT IS BASED ON INFORMATION (SURVEY, GRADING AND SITE LAYOUT) PROVIDED BY TIMMONS GROUP.
- THE PROPOSED SYSTEM MUST MAINTAIN A MINIMUM RESIDUAL PRESSURE OF 30 PSI FOR ALL DOMESTIC SCENARIOS, AND A MINIMUM RESIDUAL PRESSURE OF 20 PSI FOR ALL FIRE SCENARIOS DURING MAXIMUM DAY DEMAND PER THE NCEQ DESIGN STANDARDS AND PROCEDURES FOR WATER DISTRIBUTION.
- GPV CURVES
 - GPV-1 = 6" WATTS 709 DCDA
 - GPV-2 = 1.5" NEPTUNE TURBINE METER
 - GPV-3 = 1.5" WATTS 009 RPZ

FLOW DEMAND CRITERIA

- AVERAGE DAILY DEMAND (ADD) = 1 GPD / SELF STORAGE UNIT
- 1,570 STORAGE UNITS (1.09 GPM) APPLIED AT J-5
- MAXIMUM DAILY DEMAND (MDD) = ADD X 2.5
- SPRINKLER DEMAND
- 450 GPM APPLIED AT J-4
- FIRE FLOW DEMAND
- A MINIMUM OF 1,500 GPM IS REQUIRED ON EACH ON-SITE HYDRANT.

CONCLUSION

- BASED ON THE INFORMATION PROVIDED, THE PROPOSED SYSTEM ADEQUATELY MEETS THE MINIMUM RESIDUAL PRESSURE REQUIREMENTS WHILE PROVIDING THE REQUIRED FLOWS FOR THE DOMESTIC AND FIRE SCENARIOS.
- THE RESULTS PRESENTED ARE BASED ON INFORMATION GATHERED AT THE TIME OF THIS ANALYSIS. THE VARIABILITY OF THE WATER SYSTEM DUE TO CHANGES IN USAGE, DEMAND, OPERATING CONDITIONS, AND LAYOUT PRECLUDES GUARANTEES OF EXACT PRESSURES AND FLOWS.
- THE PROPOSED SYSTEM MEETS BOTH TOWN OF ROLESVILLE AND NCEQ DESIGN STANDARDS



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DATE	REVISION DESCRIPTION
06/01/2023	

DRAWN BY
L. SOLARI

DESIGNED BY
L. SOLARI

CHECKED BY
C. PETREE

SCALE
N.T.S.

TIMMONS GROUP

JONES DAIRY STORAGE FACILITY
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 HYDRAULIC ANALYSIS LAYOUT AND RESULTS

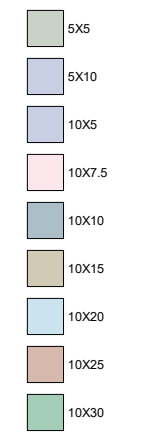
JOB NO.
54832

SHEET NO.
W1.0

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L:\2154832\Wmke_Self_Storage\DWG\54832-WTRM.Dwg | Printed on 01/20/23 11:40 AM | by Luke Solari

Unit Legend



CC STORAGE UNIT MIX

Table with 4 columns: Name, Count, Area, %. Lists unit types like 5X5, 5X10, 10X5, etc. with their respective counts and areas.

NON-CC STORAGE UNIT MIX

Table with 4 columns: Name, Count, Area, %. Lists unit types like 10X10, 10X20, 10X30 with their counts and areas.

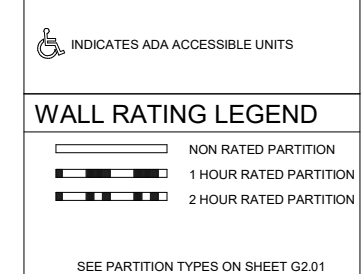
GROSS SQUARE FOOTAGE: CC BLDG

62,810 SF

EFFICIENCY: CC BLDG

48,775 / 62,810 = 77.9%
AVERAGE UNIT AREA 109.3 SF

FLOOR PLAN LEGEND



WALL RATING LEGEND



FLOOR PLAN NOTES

- 1 EXTERIOR AND INTERIOR SIGNAGE ARE NOT APPROVED WITHIN THE SCOPE OF THE BUILDING PERMIT...
2 REFER TO ADA ANSI G-SHEETS FOR ADA REQUIREMENTS.
3 CONTRACTOR TO PROVIDE FIRE RETARDANT BLOCKING FOR ALL WALL MOUNTED ACCESSORIES.
4 CONTRACTOR TO FURR OUT WITH METAL STUD, TREATED WOOD, OR METAL CHANNELS AND GYPSUM BOARD TO CONCEAL ALL EXPOSED CONDUIT OR PIPING NOT OTHERWISE CONCEALED IN WALLS OR CHASES. FINISH TO THE LEVEL OF ADJACENT SURFACES.
5 CONTRACTOR SHALL COORDINATE WITH TENANT OR OWNER FOR SCHEDULING ALL TELEPHONE COMPANY, DATA AND FURNITURE INSTALLATIONS.
6 ALL LOW VOLTAGE WIRING SHALL BE BY TENANT OR OWNER UNLESS OTHERWISE OUTLINED IN THE MATRIX OF RESPONSIBILITY. OFFSET BACK TO BACK ELECTRICAL AND TELEPHONE OUTLETS 16" MINIMUM IN SEPARATE STUD CAVITIES.
7 CONTRACTOR TO PROVIDE AND COORDINATE BLOCKING FOR ALL FURNITURE, FIXTURES, DRAPERIES, TOILET ACCESSORIES AND INTERIOR ACCESSORIES.
8 PRIOR TO THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COORDINATE AND VERIFY THE LOCATION OF LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES WITH THE OWNER'S FURNITURE AND EQUIPMENT PLAN. THE CONTRACTOR SHALL NOTIFY OF ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION.
9 ALIGN FINISHED FACE OF CONTINUOUS PARTITIONS THAT CHANGE PARTITION TYPES ALONG A STRAIGHT RUN.
10 COORDINATE WITH FIRE PROTECTION SUBCONTRACTOR REGARDING LOCATION OF INSPECTORS TEST VALVE AND SIGHT GLASS. PROVIDE A FIRE-RATED ACCESS PANEL AS APPROPRIATE FOR ALL LOCATIONS.
11 DIMENSIONS ARE FROM THE FACE OF STRUCTURE TO THE FACE OF STRUCTURE U.N.O.
12 WALL ON GRID REFERENCE LINES ARE CENTER TO CENTER OF STUD/CMU U.N.O.
13 SEE OVERALL PLANS FOR TYPICAL DIMENSIONS AND DETAIL CALLOUTS.
14 PROVIDE CONTROL JOINTS WHERE A PARTITION, WALL, OR CEILING TRAVERSES A CONSTRUCTION JOINT (EXPANSION, SEISMIC, OR BUILDING CONTROL ELEMENT) IN THE BASE BUILDING STRUCTURE.
15 PROVIDE CONTROL JOINTS WHERE A WALL OR PARTITION RUNS IN AN UNINTERRUPTED STRAIGHT PLANE EXCEEDING 30 LINEAR FEET.
16 CONTRACTOR TO VERIFY ALL FINAL DIMENSIONS, INCLUDING EDGE OF SLAB DIMENSIONS, AND NOTIFY ODA ARCHITECTURE OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
17 REFER TO PLUMBING DRAWINGS FOR SLAB PENETRATIONS.
18 EXTERIOR SLABS TO HAVE THERMAL BREAK BETWEEN THE INTERIOR AND EXTERIOR. PROVIDE COMPRESSIBLE FILLER AND SEALANT.

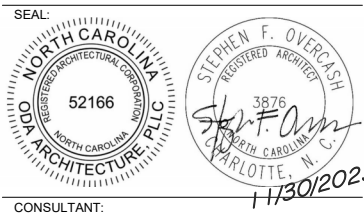
ADA UNIT COUNTS:

Table with 4 columns: SQ FT, UNIT SIZE, % TOTAL, # of ADA. Lists counts for various unit sizes like 25, 50, 75, 100, 150, 200, 250, 300.

NOTES: *17 ADA UNITS REQUIRED BY CODE = 640 UNITS TOTAL -200 UNITS @ 5% = 10 UNITS -340 UNITS @ 2% = 6.8 = 7 UNITS



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CONSULTANT:

Rolesville Storage

1200 Jones Dairy Road, Town of Rolesville, Wake County, NC
ODA Project No. 223686

PERMIT SET

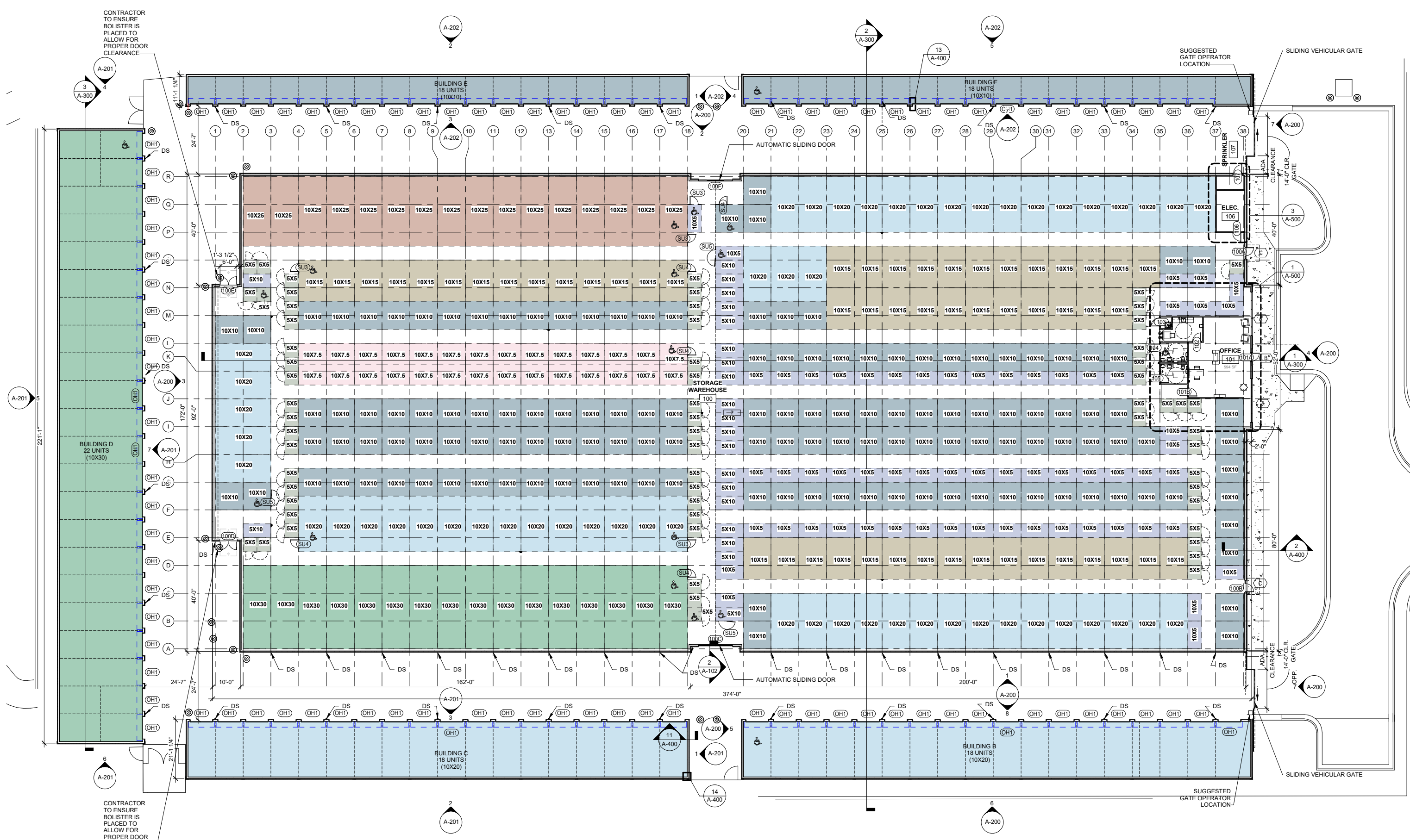
11/30/2023

Table with 3 columns: No., Description, Date. Revisions table for tracking changes to the permit set.

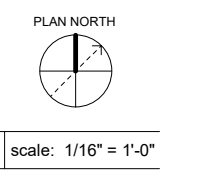
FLOOR PLAN

A-101

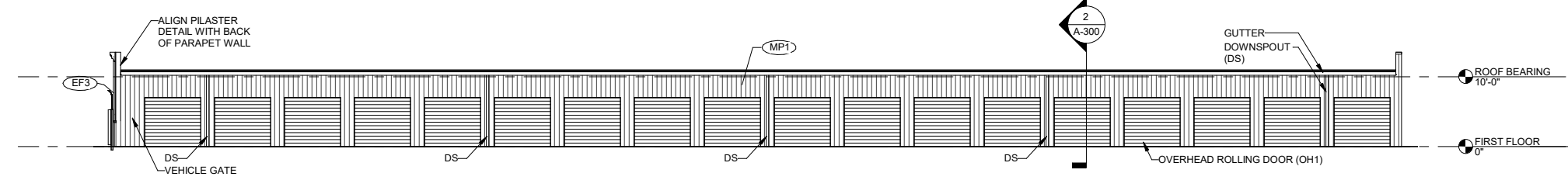
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1 OVERALL FLOOR PLAN

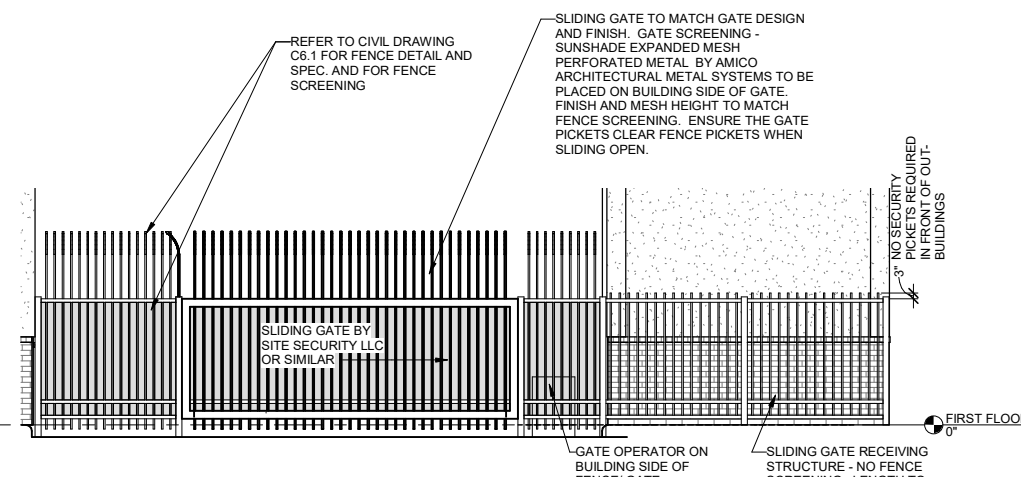


4/30/2024 11:01:18 AM



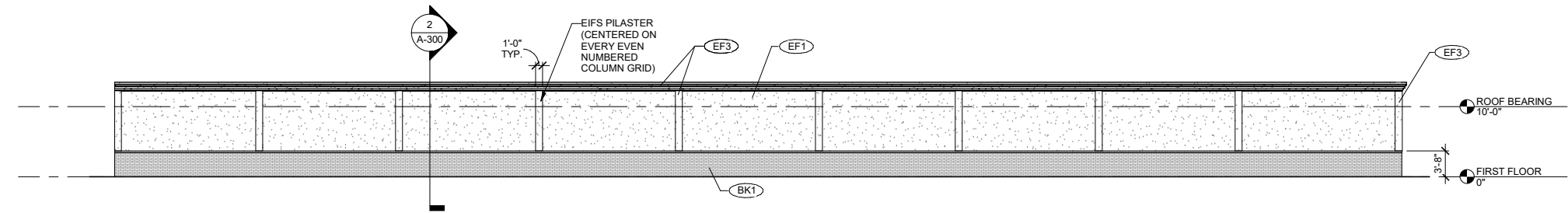
8 BUILDING B - NORTH ELEVATION

scale: 3/32" = 1'-0"



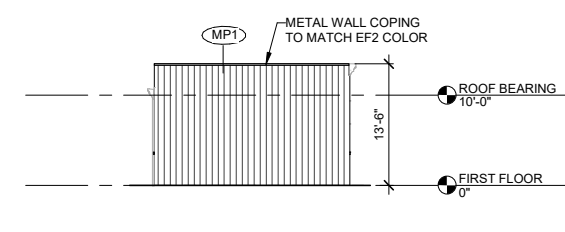
7 ENLARGED GATE ELEVATION

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



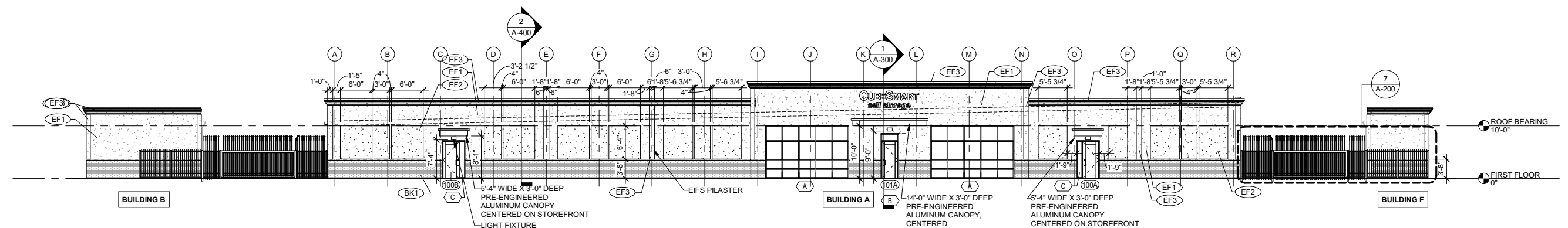
6 BUILDING B - SOUTH ELEVATION

scale: 3/32" = 1'-0"



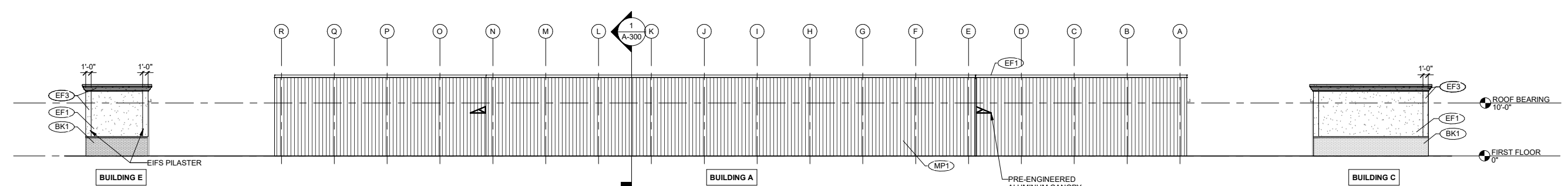
5 BUILDING B - WEST ELEVATION

scale: 3/32" = 1'-0"



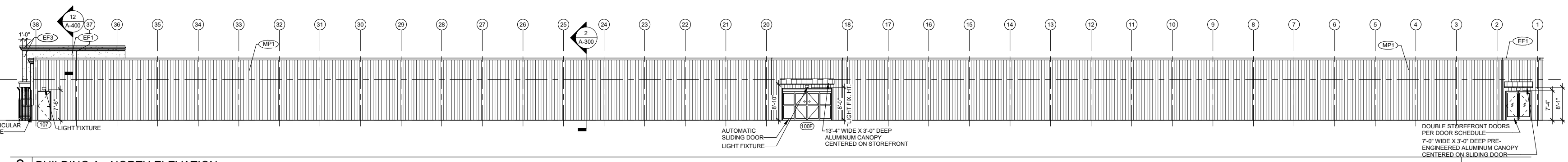
4 BUILDINGS B, A AND F - EAST ELEVATION

scale: 3/32" = 1'-0"



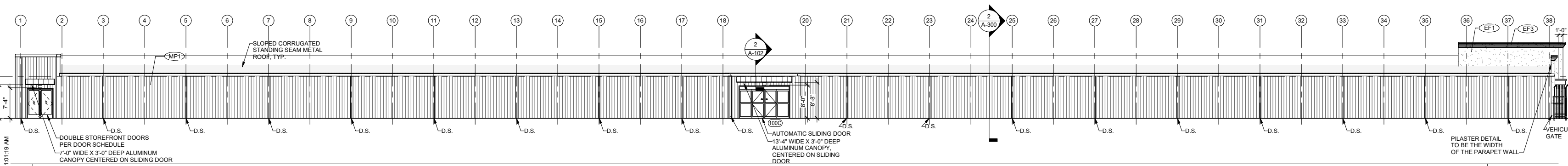
3 BUILDINGS E, A AND C - WEST ELEVATION

scale: 3/32" = 1'-0"



2 BUILDING A - NORTH ELEVATION

scale: 3/32" = 1'-0"



1 BUILDING A - SOUTH ELEVATION

scale: 3/32" = 1'-0"

EXT. FINISH LEGEND

	EF1 EFS 1 Manufacture - BOD Dryvit Color: TBD - Light Tan Texture: Fine
	EF2 EFS 2 Manufacture - BOD Dryvit Color: TBD - Darker Tan Texture: Fine
	EF3 EFS 3 Manufacture - BOD Dryvit Color: White Texture: Fine
	AL 2 ALUMINUM 2 Manufacture - TBD (Storefront System and front Canopies) Color: Clear Anodized
	EFS BRICK Manufacture - (BOD) Dryvit Product - (BOD) Custom Brick Color: TBD - Brown Tone
	VERTICAL CORRUGATED METAL PANEL Manufacture - TBD (Thicker Ext. Walls) Color: TBD - Light Tan (To match EF1)
	METAL PANEL Manufacture - TBD (Gate Insets - To match perimeter fence screening) Color: TBD
	PAINTED STEEL Manufacture - TBD (Gate Structure) Color: TBD - Black

EXTERIOR ELEVATION NOTES

KEY	COMMENTS
1	ALL EXTERIOR MATERIALS ARE NOTED ON ELEVATIONS. SEE G-SHEETS FOR ASSEMBLY DETAILS.
2	SEE SCHEDULES AND SPECIFICATIONS FOR WINDOWS, DOORS, AND STOREFRONT SYSTEMS.
3	ALL MECHANICAL GRILLS, WALL EXHAUST HOODS, AND WALL VENTS TO BE PAINTED TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE NOTED.
4	HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE NOTED.
5	GUTTERS AND DOWNSPOUTS TO BE PREFINISHED ALUMINUM UNLESS OTHERWISE NOTED. SUBMIT COLOR CHART TO ODA ARCHITECTURE FOR SELECTION.
6	VERTICAL CONTROL JOINTS TO BE MAXIMUM 20 FEET O.C.
7	HORIZONTAL CONTROL JOINTS TO BE LOCATED BELOW SHELF ANGLES AS INDICATED ON DRAWINGS.
8	WALL SIGNAGE TO BE PERMITTED AND INSTALLED BY OTHERS. CONTRACTOR TO COORDINATE ANY BLOCKING AND SUPPORTS FOR OWNER PROVIDED SIGNAGE.

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SEAL:

CONSULTANT: 11/30/2023


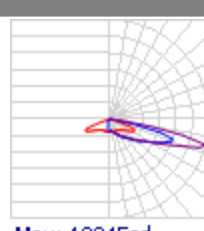

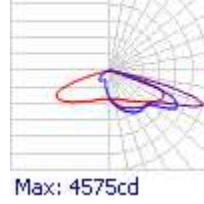
Rolesville Storage
 1200 Jones Dairy Road, Town of
 Rolesville, Wake County, NC
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PERMIT SET
 11/30/2023

REVISIONS

No.	Description	Date

BUILDING ELEVATIONS - BUILDINGS A AND B

Schedule											
Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
OA			3	Lithonia Lighting	DSK1 LED P4 40K 70CRI 1FTM HS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Forward Throw HouseSide Shield	1	13740	1	123.9373	 Max: 13345cd
OB			21	Lithonia Lighting	WDGE3 LED P1 70CRI R4 40K	WDGE3 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 OPTIC	1	7753	1	51.1717	 Max: 4575cd

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Perimeter Driveways	+	4.8 fc	14.9 fc	1.2 fc	12.4:1	4.0:1
Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Main Parking	+	1.8 fc	5.4 fc	0.1 fc	54.0:1	18.0:1

