

PERMIT SET

CID-25-07 / Raleigh Plan Case # MRCP-0066-2025

Rolesville Town Campus

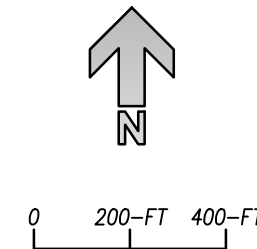
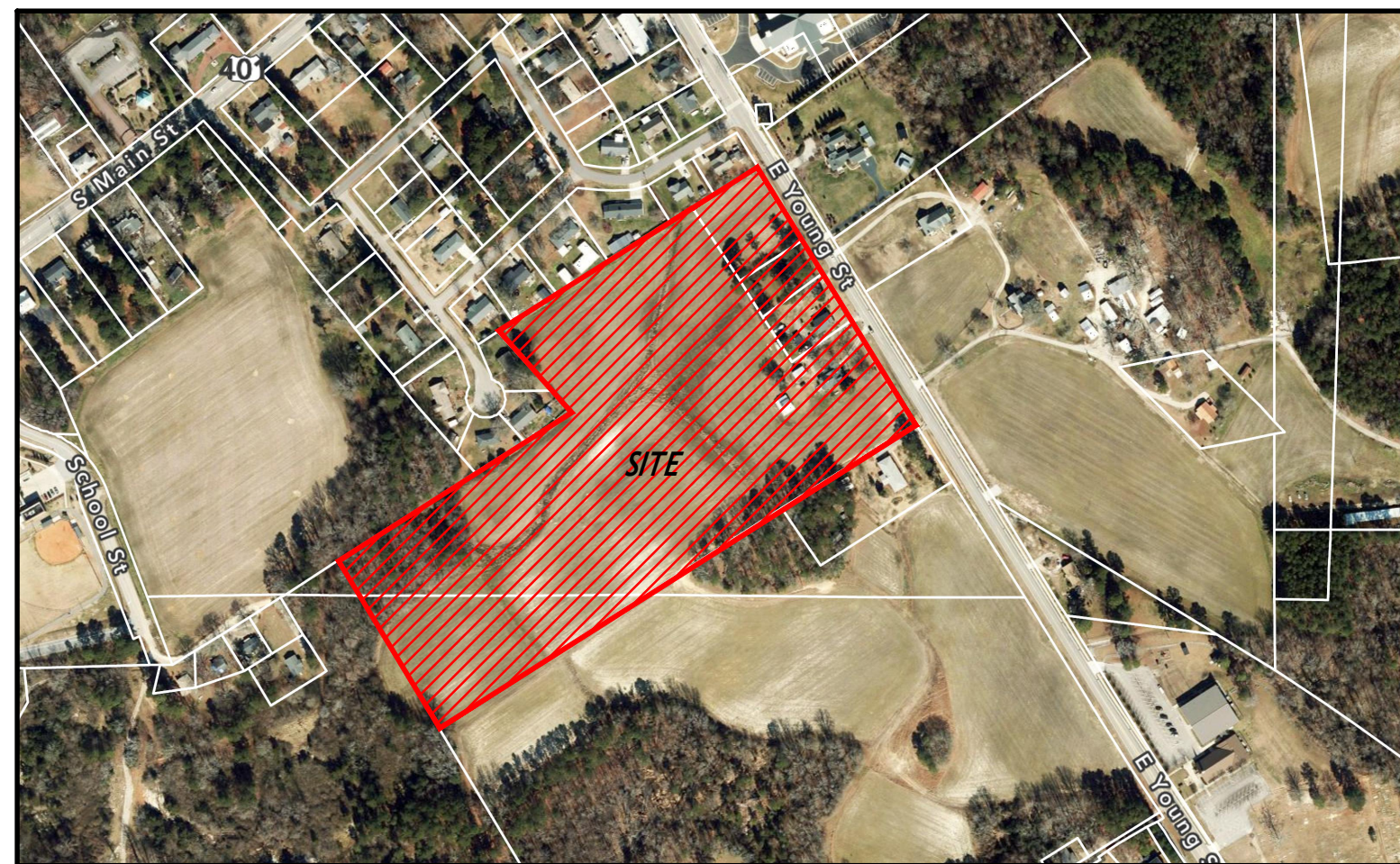
408 E. Young Street
Rolesville, NC, 27571
TOWN OF ROLESVILLE

January 22, 2026



PRELIMINARY PLANS
FOR REVIEW ONLY

VICINITY MAP



SITE DATA

OWNER: TOWN OF ROLESVILLE
P.O. BOX 250
ROLESVILLE, NC 27571

OWNER CONTACT: MEDHAT BASELIOUS, PE, PMP
CAPITAL PROJECT MANAGER, TOWN OF ROLESVILLE
984-251-2368
MEDHAT.BASELIOUS@ROLESVILLE.NC.GOV

LANDSCAPE ARCHITECT: CLH DESIGN, P.A.
RACHEL WATSON, PLA
919-319-6716
400 REGENCY FOREST DRIVE, STE. 120
CARY, NC 27511
RWATSON@CLHDESIGN.PA.COM

CIVIL ENGINEER: CLH DESIGN, P.A.
DANI LOVERA, PE
919-319-6716
400 REGENCY FOREST DRIVE, STE. 120
CARY, NC 27511
DLOVERA@CLHDESIGN.PA.COM

DESIGNER CONTACT:

PROJECT ADDRESS: 408 E. YOUNG STREET & 0 E. YOUNG STREET
ROLESVILLE, NC 27571

PLANNING JURISDICTION: TOWN OF ROLESVILLE
PIN: 1768098727, 1768094465, 1769101402, 1769101390, 1769102240
REAL ID: 0012313, 0106105, 0012316, 0041554, 0006343
DEEDED ACREAGE: (13.39 + 2.32 + 0.81 + 0.37 + 0.50) = 17.39 AC
ZONING: RL - RESIDENTIAL LOW DENSITY
PROPOSED ZONING: BT - BUSINESS, INDUSTRIAL AND TECHNOLOGY
EXISTING USE: SINGLE FAMILY
PROPOSED USE: TOWN CAMPUS
DISTURBED AREA: ±18.6 ACRES (±810,000 SF)
PROPOSED FIRE LANE: N/A
BUILDING AREA SF: N/A NO BUILDING IMPROVEMENTS ARE PROPOSED
PREDOMINATE BUILDING FACADE HEIGHT: N/A NO BUILDINGS PROPOSED WITH THIS PHASE

RIVER BASIN: NEUSE RIVER
FLOODZONE: PANEL 3720176900J
FEMA MAP: PANEL 3720176800K

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Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
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Town of Rolesville
CID-25-07

QUANTITY	AMOUNT
NUMBER OF LOTS	6
NUMBER OF UNITS	N/A
PUBLIC WATER (LF)	2023
PUBLIC SEWER (LF)	950
PUBLIC FORCE MAIN (LF)	N/A
PRIVATE SEWER (LF)	360
WATER SERVICE STUBS (QTY)	6
SEWER SERVICE STUBS (QTY)	0
AVERAGE DAILY FLOW PER PHASE	TBD

ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION.

RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION 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.

TOWN OF ROLESVILLE SIGNATURE BLOCK

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

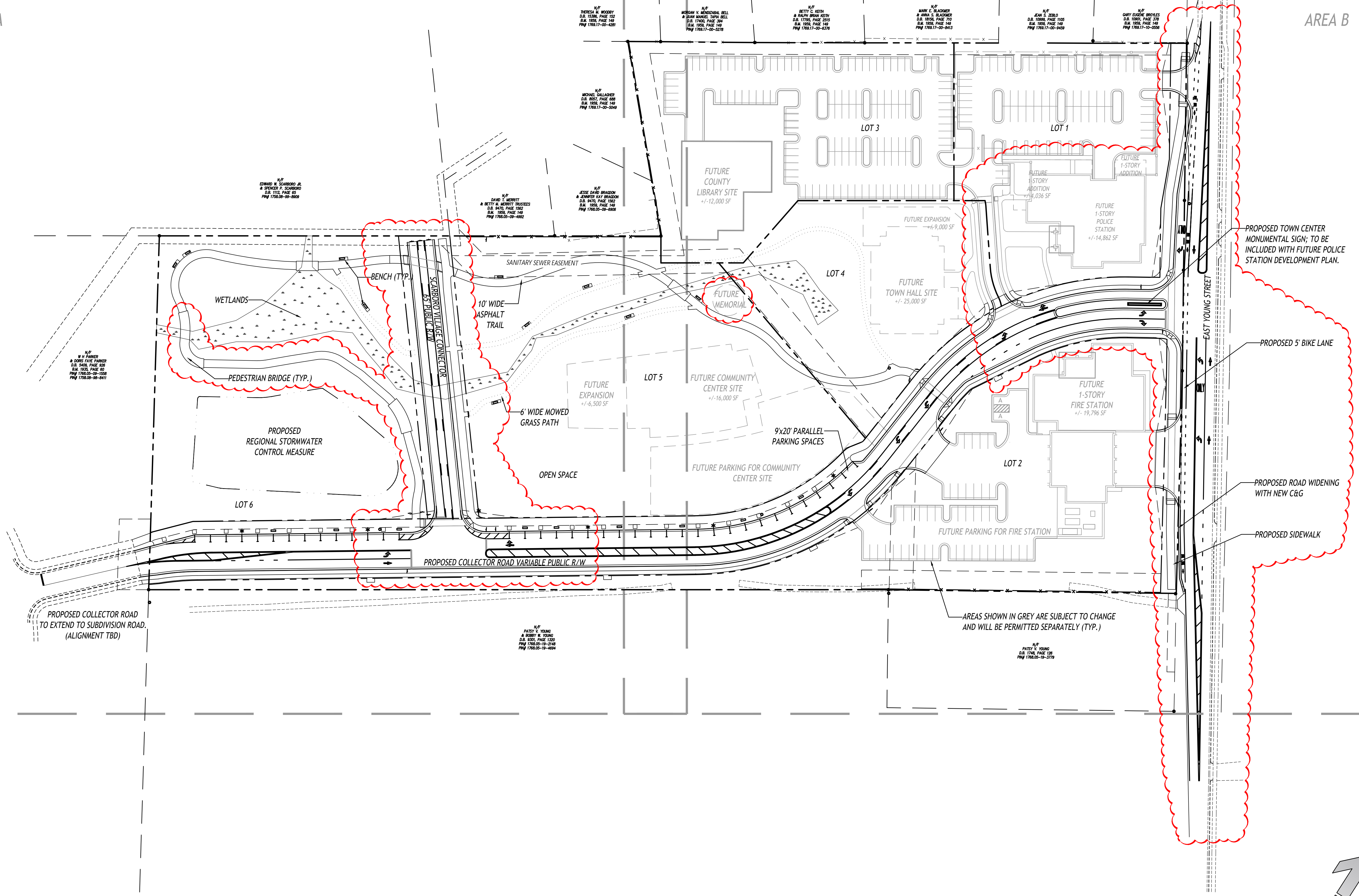
COVER

C-0.00

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL SEC-
STORMWATER MGMT SWF-
FLOOD STUDY SWF-
DATE: _____
ENVIRONMENTAL CONSTRUCTION

AREA A

AREA B



CLH DESIGN
 CLH design, p.a.
 400 Regency Forest Dr.
 Suite 120
 Cary, NC 27518
 Phone: 919.319.6716
 LA: C-106, PE: C-1595

PRELIMINARY PLANS
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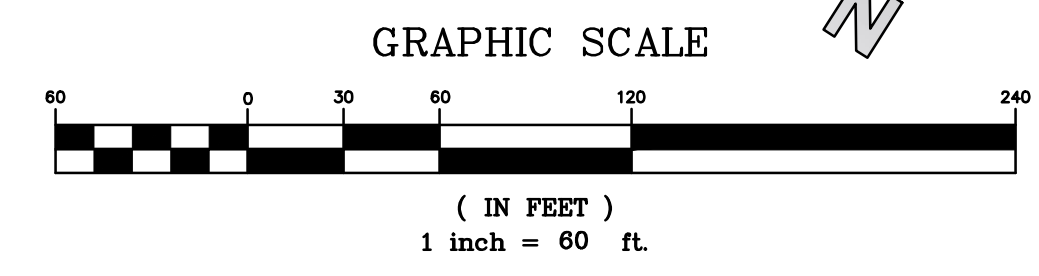
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OVERALL SITE PLAN

C-1.00



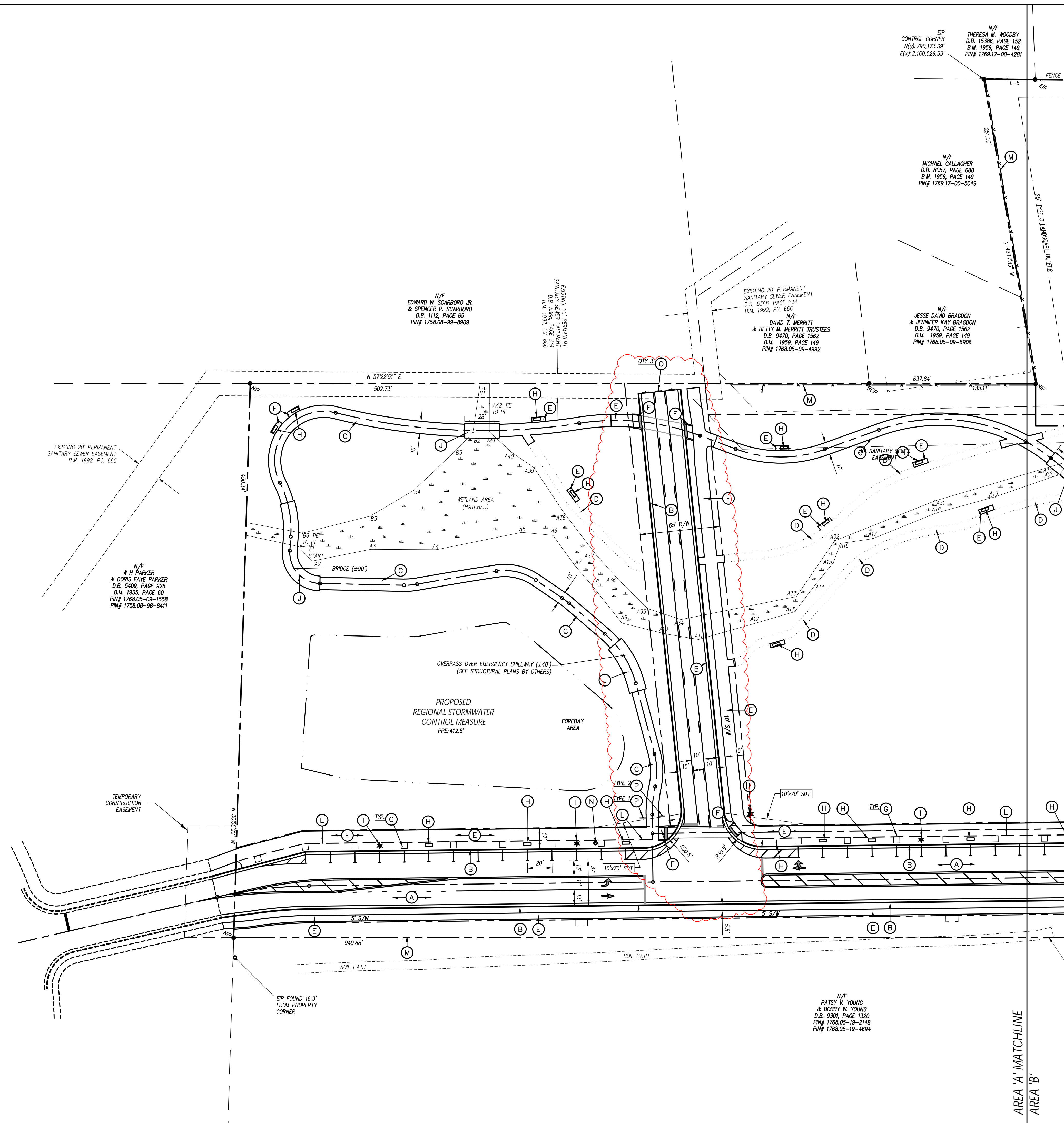
AREAS SHOWN IN GREY ARE SUBJECT TO CHANGE AND WILL BE PERMITTED SEPARATELY (TYP.)

PROPOSED TOWN CENTER MONUMENTAL SIGN; TO BE INCLUDED WITH FUTURE POLICE STATION DEVELOPMENT PLAN.

PROPOSED 5' BIKE LANE

PROPOSED ROAD WIDENING WITH NEW C&G

PROPOSED SIDEWALK



STAKING GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADII ARE 4-FT UNLESS OTHERWISE SHOWN.
7. (AC) DENOTES ACCESSIBLE PARKING SPACE.
8. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
9. ANY AND ALL LANDSCAPING, EXISTING TREES OR 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.
10. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
11. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
12. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

STAKING KEY NOTES

- (A) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C-8.01
- (B) 30-IN CURB & GUTTER, SEE DETAIL SHEET C-8.01
- (C) 10-FT WIDE ASPHALT TRAIL, SEE DETAIL SHEET C-8.01
- (D) 6-FT WIDE MULCH SURFACE TRAIL, SEE DETAIL SHEET C-8.02
- (E) CONCRETE SIDEWALK, SEE DETAIL SHEET C-8.01
- (F) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C-8.01
- (G) ADD ALTERNATE STREET TREE GRATE, SEE DETAIL SHEET C-8.02
- (H) BENCH, SEE SPECIFICATIONS
- (I) STREET LIGHTS
- (J) PEDESTRIAN BRIDGE, SEE DETAIL SHEET C-8.03
- (K) FUTURE MONUMENT SIGN, BY OTHERS
- (L) ADD ALTERNATE - PRECAST PAVERS, SEE DETAIL SHEET C-8.02
- (M) 6-FT TALL ORNAMENTAL FENCE, SEE DETAIL SHEET C-8.02
- (N) TRASH RECEPTACLE, SEE SPECIFICATIONS
- (O) END OF ROAD MARKER; REFER TO TRAFFIC CONTROL NOTES
- (P) SPECIALITY SIGNAGE; REFER TO SHEET C-8.03
- (Q) DEAD END / NO OUTLET; REFER TO TRAFFIC CONTROL NOTES

TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
END OF ROADWAY MARKER	OM4-1	30" x 30"
DEAD END / NO OUTLET	W14-1A	24" x 30"
2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
4. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

CLH design, p.a.
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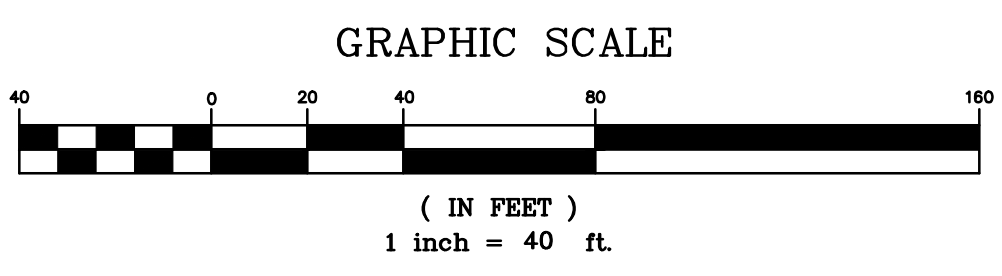
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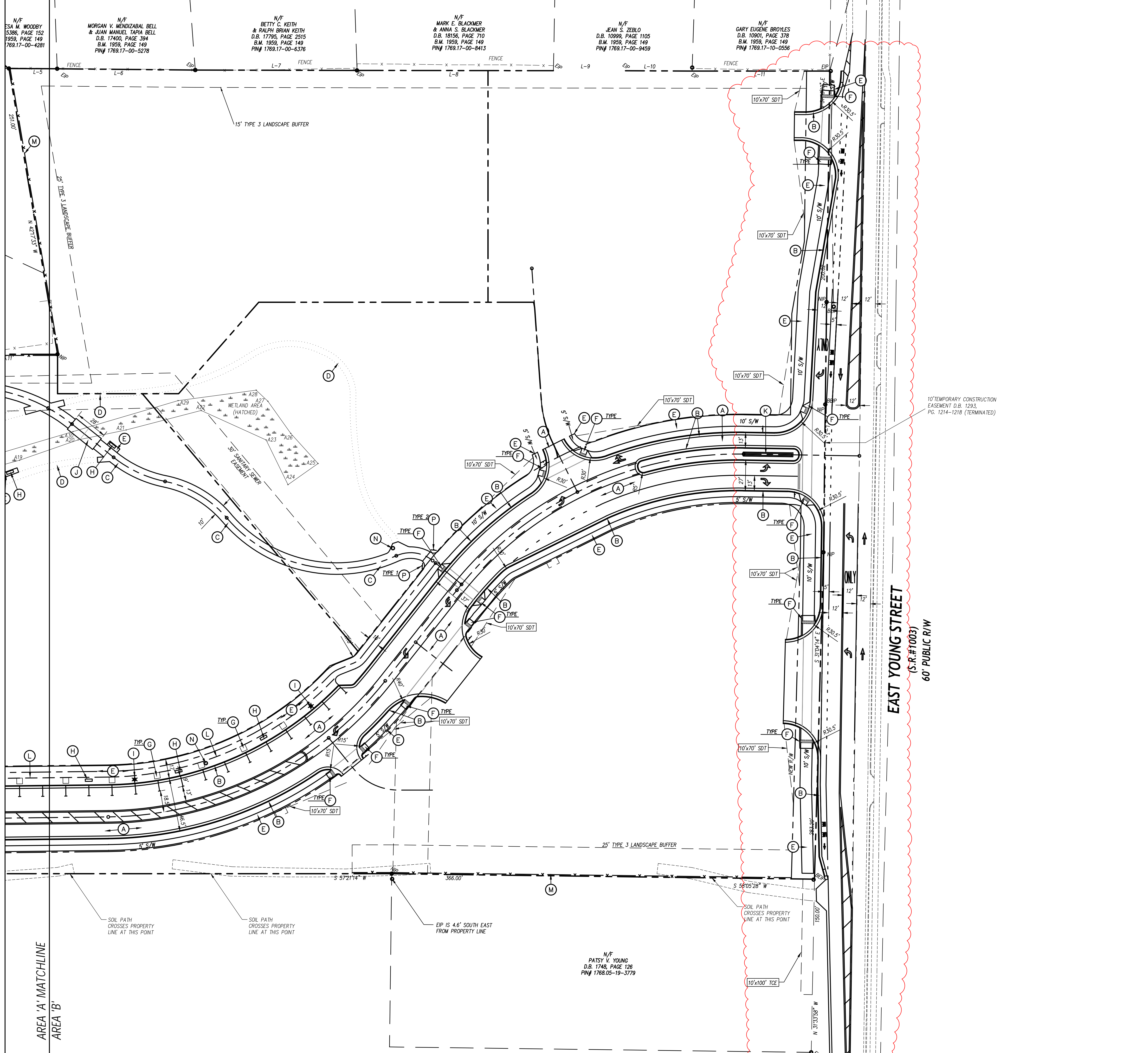
NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**STAKING PLAN
AREA A**

C-1.01





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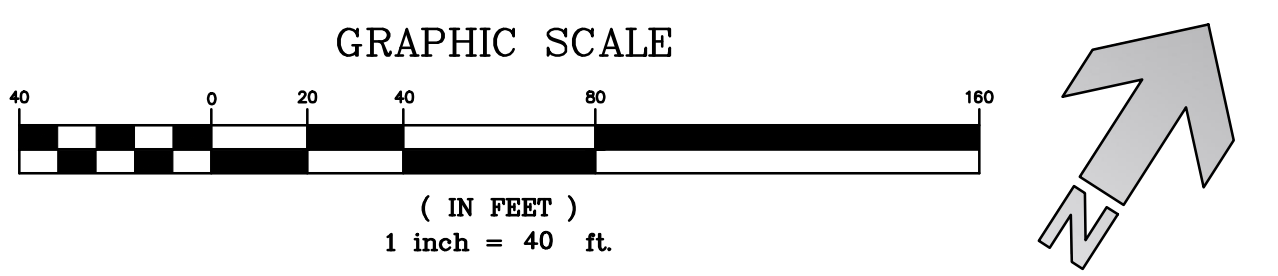
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- (O) END OF ROAD MARKER; REFER TO TRAFFIC CONTROL NOTES
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**STAKING PLAN
AREA B**

C-1.02



**CLH
DESIGN**

CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.5716
LA: C-106, PE: C-1595

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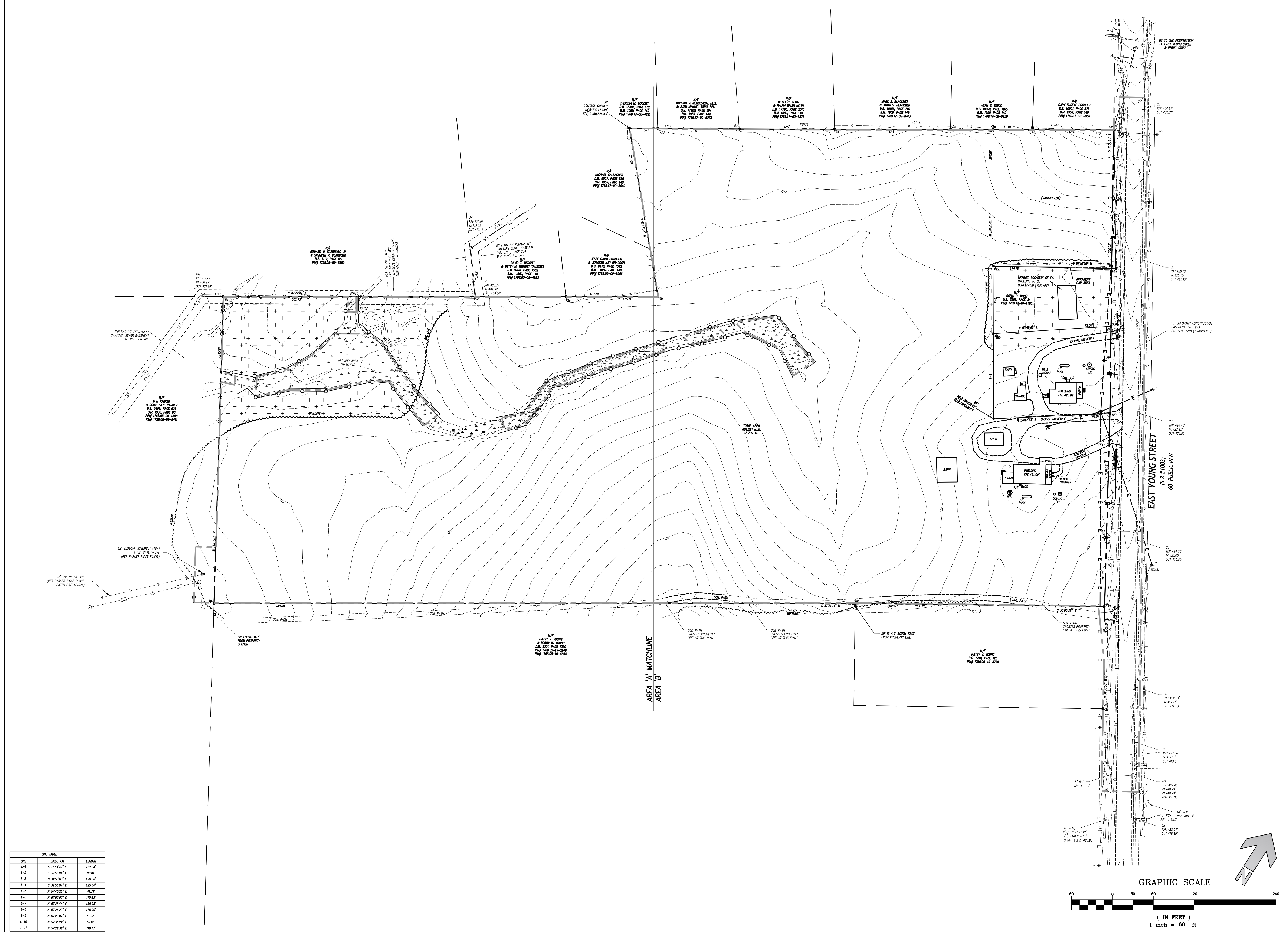
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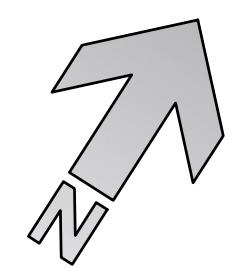
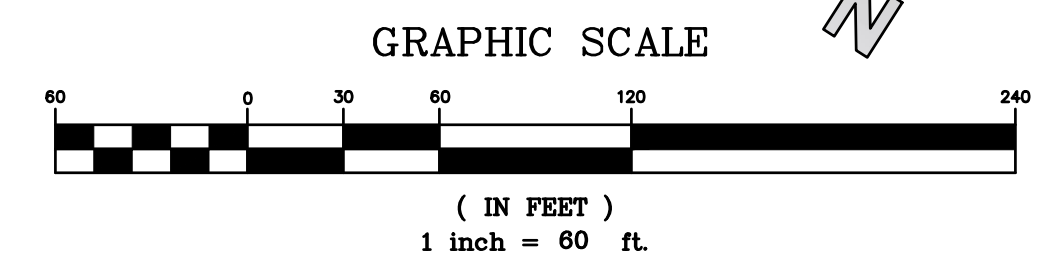
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DATE: 22-JAN-2026
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**OVERALL EXISTING
CONDITIONS &
DEMOLITION PLAN**

C-2.00



LINE	DIRECTION	LENGTH
L-1	S 17°44'29" E	124.25'
L-2	S 32°04'14" E	168.81'
L-3	S 31°56'26" E	138.00'
L-4	S 32°50'04" E	125.00'
L-5	N 57°40'25" E	41.71'
L-6	N 57°51'01" E	118.83'
L-7	N 57°51'44" E	135.88'
L-8	N 57°50'23" E	170.00'
L-9	N 57°21'07" E	62.35'
L-10	N 57°35'22" E	57.66'
L-11	N 57°22'32" E	118.17'





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**EXISTING
CONDITIONS &
DEMOLITION PLAN
AREA A**

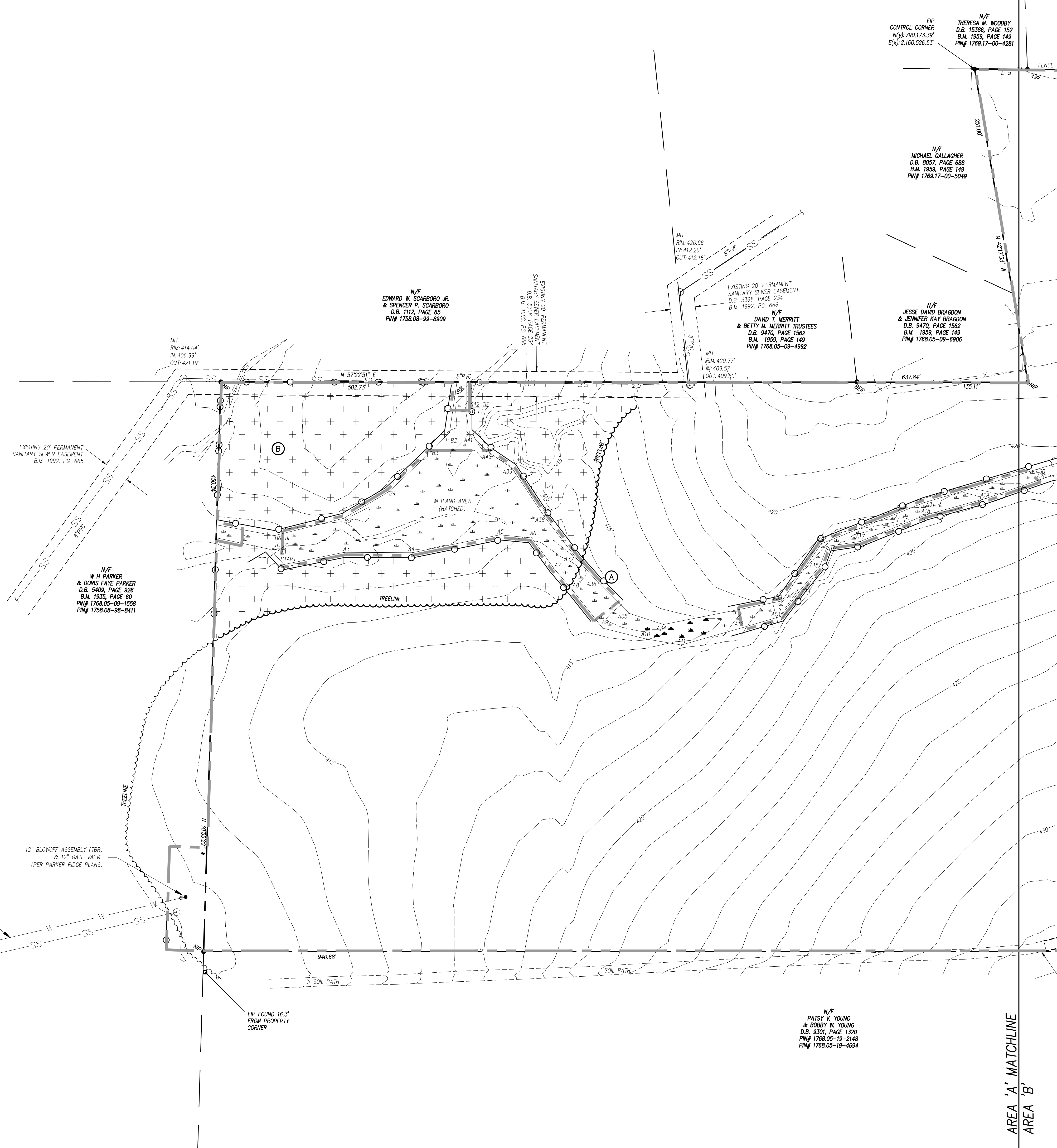
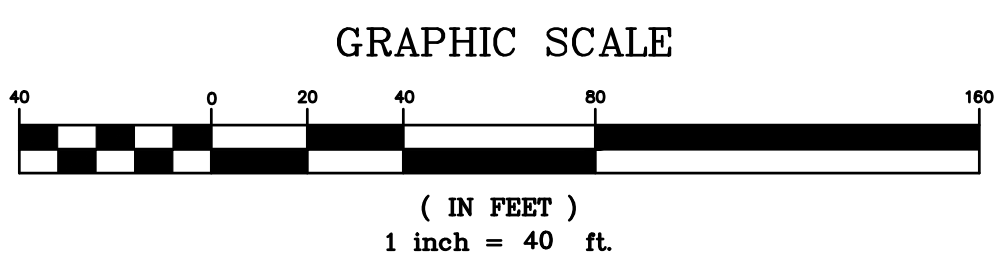
C-2.01

LEGEND

STRUCTURES/UTILITIES TO BE REMOVED		STRUCTURES/UTILITIES TO REMAIN	
OVERHEAD ELECTRICAL	---E---	OVERHEAD ELECTRICAL	---E---
UNDERGROUND ELECTRICAL	---UE---	UNDERGROUND ELECTRICAL	---UE---
FIRE PROTECTION	---FP---	FIRE PROTECTION	---FP---
GAS	---G---	GAS	---G---
SANITARY SEWER	---SS---	SANITARY SEWER	---SS---
TELEPHONE	---T---	TELEPHONE	---T---
UNDERGROUND TELEPHONE	---UT---	UNDERGROUND TELEPHONE	---UT---
FIBER OPTIC	---FO---	FIBER OPTIC	---FO---
WATER	---W---	WATER	---W---
FORCE MAIN	---FM---	FORCE MAIN	---FM---
STORM DRAIN	---SD---	STORM DRAIN	---SD---
INDIVIDUAL TREE TO BE REMOVED		INDIVIDUAL TREE TO REMAIN	
LIGHT POLE		LIGHT POLE	
UTILITY POLE		UTILITY POLE	
MANHOLE		MANHOLE	
CLEAN OUT		CLEAN OUT	
DROP INLET/CATCH BASIN		DROP INLET/CATCH BASIN	
FIRE HYDRANT		FIRE HYDRANT	
WATER VALVE		WATER VALVE	
CONSTR./CLEARING LIMITS		PAVEMENT, S/W, C&G TO BE REMOVED	
TREE PROTECTION FENCE		BUILDING/STRUCTURE TO BE REMOVED, SEE ARCHITECTURAL PLANS	
FORESTED AREA TO BE CLEARED			

- GENERAL NOTES**
- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
 - ALL ASPHALT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. SIDEWALK TO BE REMOVED TO NEAREST EXISTING JOINT. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
 - ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
 - ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
 - EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY CMP, PERFORMED 03/18/2021. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 - INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION 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). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
 - TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR, ROOTS.
 - PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
 - VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
 - CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
 - PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
 - DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C-26.03 FOR PAVEMENT REPAIR DETAILS.
 - THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720176900L, DATED 05/02/2006; 3720176800K, DATED 07/19/2022 AS BEING WITHIN ZONE "X" (AREA OF MINIMAL FLOOD HAZARD).
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- KEY NOTES**
- (A) TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C7.01.
 - (B) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.
 - (C) BUILDING, STRUCTURE OR WALL TO BE REMOVED BY OWNER.
 - (D) UTILITY/STRUCTURE TO BE REMOVED.
 - (E) UTILITY LINE/STRUCTURE TO BE REMOVED/RELOCATED BY LOCAL UTILITY COMPANY. LOCAL UTILITY COMPANY SHALL DETERMINE THE LIMITS AND EXTENT OF REMOVAL/RELOCATION OF UTILITIES REQUIRED FOR NEW CONSTRUCTION. COORDINATE SCHEDULE AND WORK WITH LOCAL UTILITY COMPANY AND ARCHITECT/OWNER.
 - (F) UTILITY/STRUCTURE TO BE REMOVED BY CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY.
 - (G) UTILITY TO BE CAPPED AND REMOVED IN ACCORDANCE WITH SPECIFICATIONS.
 - (H) PAVEMENT TO BE REMOVED. SEE GENERAL NOTE #2.
 - (I) FENCE/WALL TO BE REMOVED.
 - (J) SIGN AND POST TO BE REMOVED. RELOCATE SIGN ON NEW POST AS INDICATED ON SITE STAKING PLAN.
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 - (L) WATER SERVICE TO BE DISCONNECTED AND REMOVED. COORDINATE DISCONNECTION AT MAIN AND RETURN OF METER WITH CITY OF RALEIGH PUBLIC UTILITIES.
 - (M) SEWER SERVICE TO BE DISCONNECTED AND REMOVED. COORDINATE DISCONNECTION AT MANHOLE WITH CITY OF RALEIGH PUBLIC UTILITIES.
 - (N) GAS SERVICE TO BE DISCONNECTED AND REMOVED. COORDINATE DISCONNECTION PARTIAL GAS LINE REMOVAL WITH GAS COMPANY.
 - (O) TEMPORARY CONSTRUCTION FENCING, SEE DETAIL SHEET C-7.01
 - (P) ITEM TO BE SALVAGED. COORDINATE WITH OWNER AND ARCHITECT.
 - (Q) PROPANE TANK TO BE REMOVED BY QUALIFIED PROFESSIONAL PER LOCAL STANDARDS.
 - (R) WELL TO BE CAPPED AND REMOVED BY CERTIFIED/LICENSED WELL CONTRACTOR PER LOCAL STANDARDS.



EIP CONTROL CORNER
N(y): 790,173.39'
E(x): 2,160,526.53'

N/F THERESA M. WOODBY
D.B. 15306, PAGE 152
B.M. 1959, PAGE 149
PIN# 1769.17-00-4281

N/F JESSE DAVID BRAGDON & JENNIFER KAY BRAGDON
D.B. 9470, PAGE 1562
B.M. 1959, PAGE 149
PIN# 1768.05-09-6906

N/F DAVID T. MERRITT & BETTY M. MERRITT TRUSTEES
D.B. 9470, PAGE 1562
B.M. 1959, PAGE 149
PIN# 1768.05-09-4992

N/F EDWARD W. SCARBORO JR. & SPENCER P. SCARBORO
D.B. 1112, PAGE 65
PIN# 1758.08-99-8909

N/F W.H. PARKER & DORIS FAYE PARKER
D.B. 5409, PAGE 926
B.M. 1935, PAGE 60
PIN# 1768.05-09-1558
PIN# 1758.08-98-8411

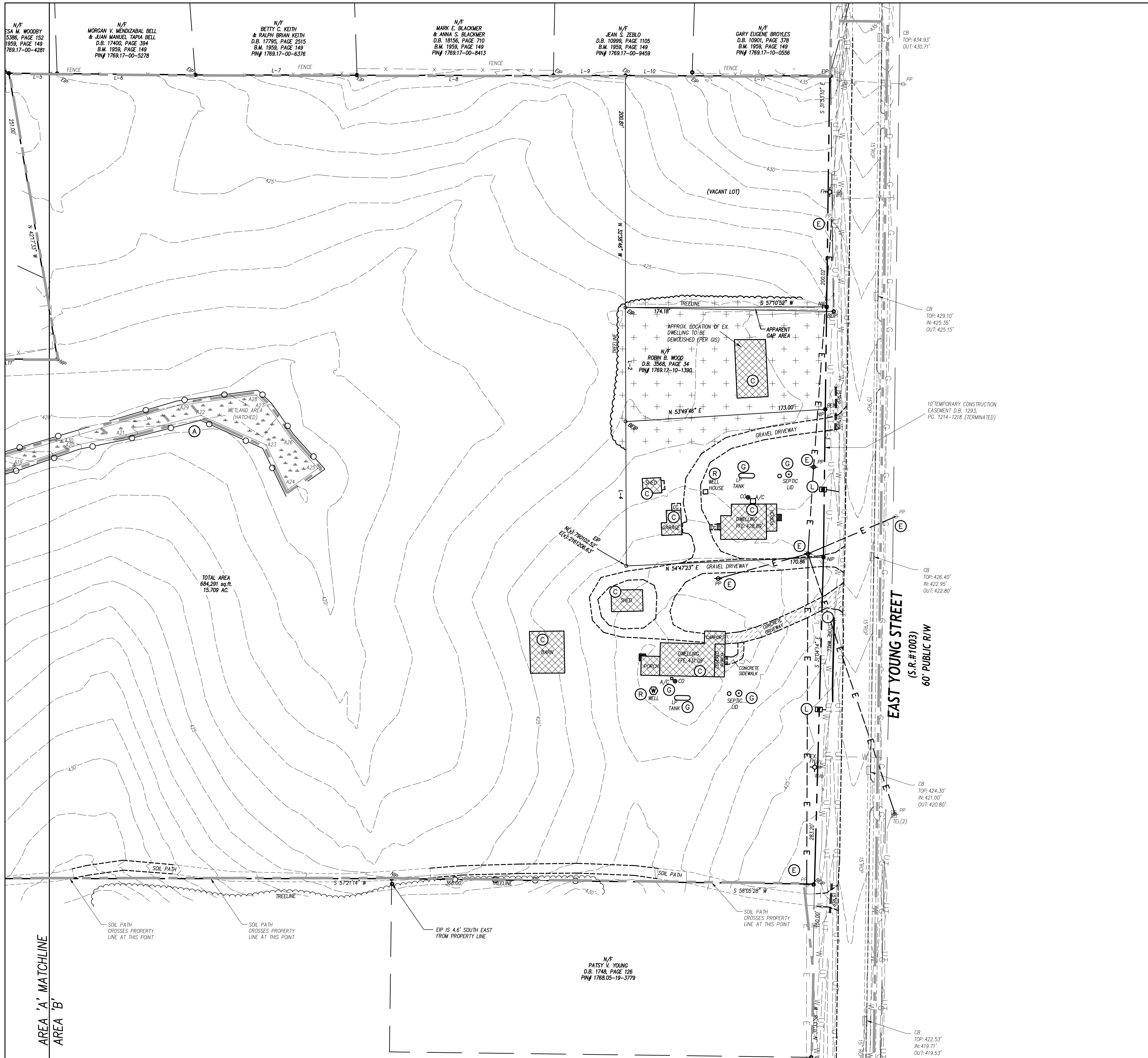
N/F PATSY W. YOUNG & BOBBY W. YOUNG
D.B. 9301, PAGE 1320
D.B. 1788.05-19-2149
PIN# 1768.05-19-4694

12" DIP WATER LINE (PER PARKER RIDGE PLANS DATED 03/04/2024)

12" BLOWOFF ASSEMBLY (TBR) & 12" GATE VALVE (PER PARKER RIDGE PLANS)

EIP FOUND 16.3' FROM PROPERTY CORNER

AREA 'A' MATCHLINE
AREA 'B'

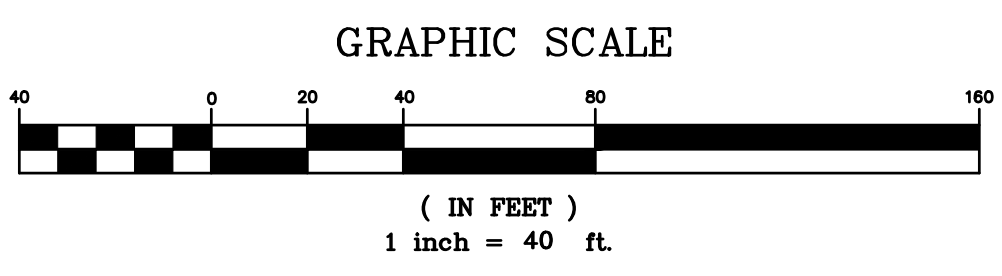


LEGEND

STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL ----- E -----	OVERHEAD ELECTRICAL ----- E -----
UNDERGROUND ELECTRICAL ----- UE -----	UNDERGROUND ELECTRICAL ----- UE -----
FIRE PROTECTION ----- FP -----	FIRE PROTECTION ----- FP -----
GAS ----- G -----	GAS ----- G -----
SANITARY SEWER ----- SS -----	SANITARY SEWER ----- SS -----
TELEPHONE ----- T -----	TELEPHONE ----- T -----
UNDERGROUND TELEPHONE ----- UT -----	UNDERGROUND TELEPHONE ----- UT -----
FIBER OPTIC ----- FO -----	FIBER OPTIC ----- FO -----
WATER ----- W -----	WATER ----- W -----
FORCE MAIN ----- FM -----	FORCE MAIN ----- FM -----
STORM DRAIN ----- SD -----	STORM DRAIN ----- SD -----
INDIVIDUAL TREE TO BE REMOVED:	INDIVIDUAL TREE TO REMAIN:
LIGHT POLE:	LIGHT POLE:
UTILITY POLE:	UTILITY POLE:
MANHOLE:	MANHOLE:
CLEAN OUT:	CLEAN OUT:
DROP INLET/CATCH BASIN:	DROP INLET/CATCH BASIN:
FIRE HYDRANT:	FIRE HYDRANT:
WATER VALVE:	WATER VALVE:
CONSTR./CLEARING LIMITS:	PAVEMENT, S/W, C&G TO BE REMOVED:
TREE PROTECTION FENCE:	BUILDING/STRUCTURE TO BE REMOVED, SEE ARCHITECTURAL PLANS:
FORESTED AREA TO BE CLEARED:	

- GENERAL NOTES**
- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
 - ALL ASPHALT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. SIDEWALK TO BE REMOVED TO NEAREST EXISTING JOINT. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
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PRELIMINARY PLANS
FOR REVIEW ONLY

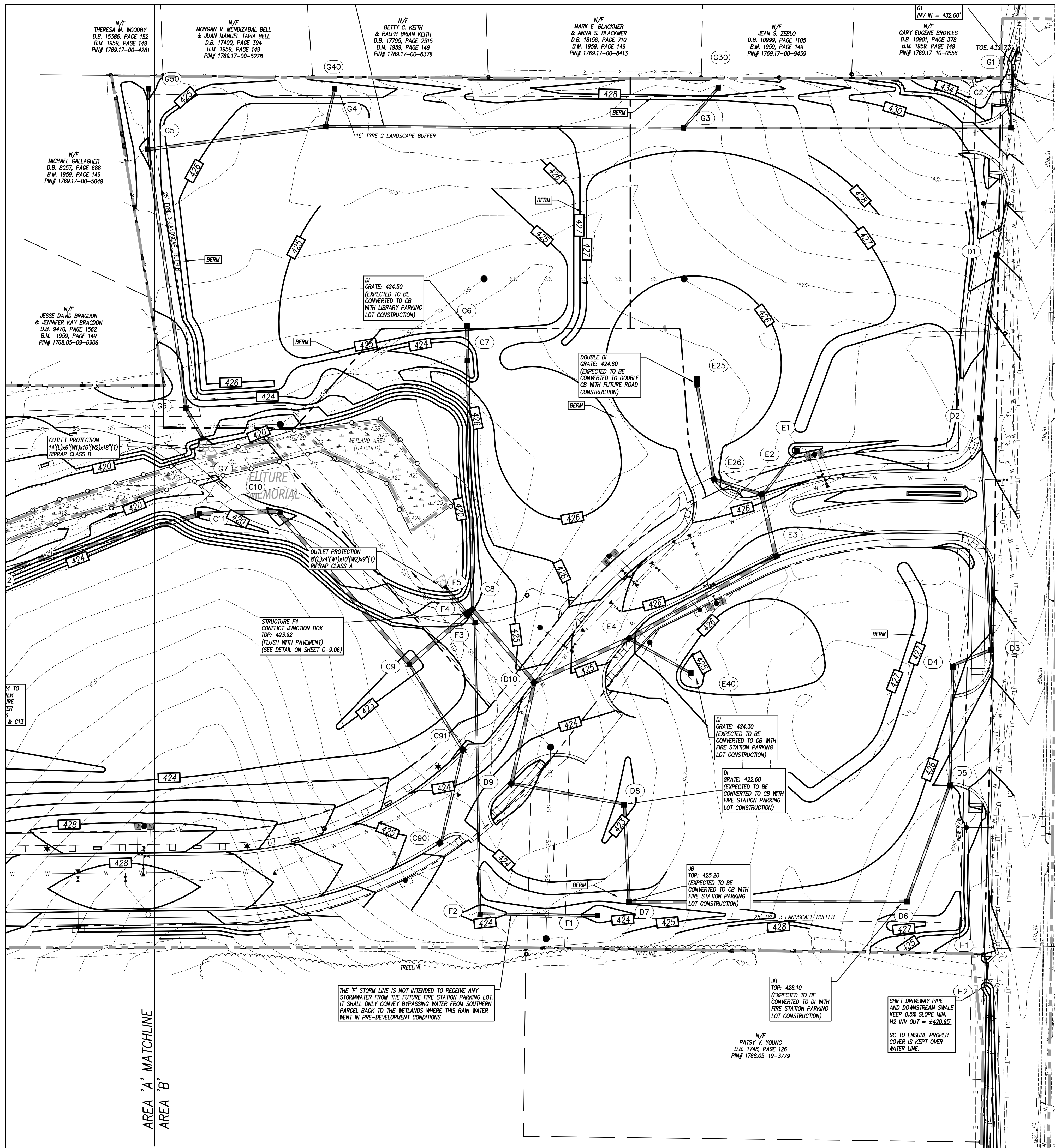
**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

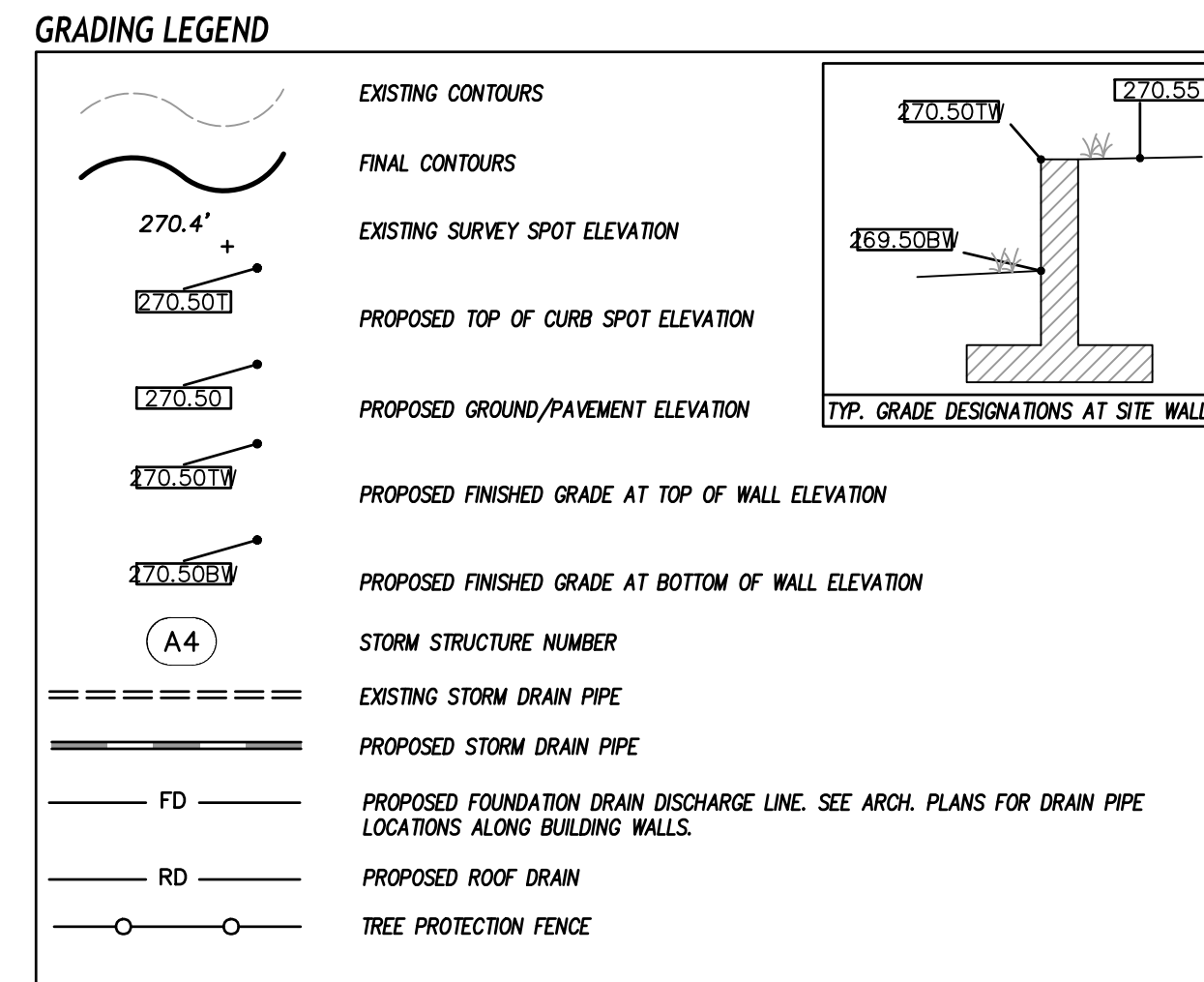
DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**EXISTING
CONDITIONS &
DEMOLITION PLAN
AREA B**

C-2.02



GENERAL GRADING NOTES
1. REFER TO SHEET C-3.01.



DRAINAGE STRUCTURE SCHEDULE LEGEND & NOTES

DRAINAGE STRUCTURE SCHEDULE											
STRUCTURE NO.	UP STRM	DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATRL	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA		
									TOP ELEV. (FT)	DEPTH (FT)	TYPE
A1	A2	1.57%	24	70	RCP	412.00	410.90	415.50	3.50	MH	OCS 3. 4.
B1	B2	0.52%	18	46	PP	414.12	413.88	417.92	3.80	CB	4.
B2	B3	0.69%	30	55	PP	412.88	412.50	417.68	4.80	CB	4. 5.
C6	C7	0.68%	24	28	PP	418.42	418.23	424.50	6.08	DI	4.
C7	C8	0.60%	24	199	PP	418.23	417.04	423.04	4.81	DI	4.
C8	C9	0.60%	36	67	PP	417.04	416.62	424.00	6.96	DI	4.
C9	C10	0.75%	36	161	PP	416.64	415.44	422.21	5.57	DI	4.
C10	C11	0.55%	36	62	PP	415.44	415.10	420.20	4.76	DI	4.
C11	C12	0.55%	36	179	PP	415.10	414.12	419.86	4.76	DI	4.
C12	C13	0.55%	36	152	PP	414.12	413.28	419.34	5.22	DI	4.
C13	C14	0.56%	42	94	PP	413.28	412.75	422.00	8.72	DI	4.
C14	C15	1.00%	42	44	PP	410.94	410.50	420.95	10.01	CB	4. 5.
C90	C91	0.93%	15	76	PP	419.96	419.25	424.74	4.78	CB	4.
C91	C9	1.04%	18	81	PP	419.00	418.16	423.94	4.94	CB	4.
C140	C141	2.82%	18	51	PP	413.50	412.06	416.91	3.41	CB	4. 7.
C141	C142	0.99%	18	101	PP	412.06	411.46	417.20	5.14	CB	4.
C142	C14	0.60%	24	85	PP	411.46	410.95	419.12	7.66	CB	4.
D1	D2	0.80%	18	131	PP	424.77	423.72	429.45	4.68	CB	4.
D2	D3	0.95%	18	185	PP	423.72	421.97	427.41	3.69	CB	4.
D3	D4	0.67%	18	33	PP	421.96	421.74	426.06	4.10	CB	4.
D4	D5	0.60%	18	95	PP	421.74	421.17	425.23	3.49	CB	4.
D5	D6	0.56%	18	99	PP	421.17	420.50	424.61	3.44	DI	4.
D6	D7	0.65%	18	222	PP	420.60	419.16	424.32	3.72	DI	4.
D7	D8	0.59%	18	78	PP	419.16	418.70	424.35	5.19	CB	4.
D8	D9	0.60%	18	92	PP	418.70	418.15	423.10	4.40	DI	4.
D9	D10	0.58%	24	83	PP	418.05	417.57	424.15	6.10	CB	4.
D10	C8	0.62%	30	76	PP	417.57	417.10	424.70	7.13	CB	4.
E1	E2	1.87%	18	45	PP	420.21	419.37	424.57	4.36	DI	4.
E2	E3	0.82%	30	51	PP	419.37	418.95	426.32	6.95	CB	4.
E3	E4	0.64%	30	135	PP	418.95	418.08	426.05	7.10	CB	4.
E4	D10	0.49%	30	83	PP	418.08	417.67	425.88	7.80	CB	4.
E25	E26	0.53%	24	79	PP	420.02	419.60	424.60	4.58	DI	4. 7.
E26	E2	0.56%	24	40	PP	419.60	419.37	425.94	6.24	CB	4.
E40	E4	2.36%	15	56	PP	420.38	419.06	424.30	3.92	DI	4.
F1	F2	0.50%	15	94	PP	421.30	420.83	424.41	3.11	DI	
F2	F3	0.50%	15	233	PP	420.83	419.67	423.94	3.11	DI	
F3	F4	0.50%	15	9	PP	419.67	419.62	424.20	4.53	JB	
F4	F5	0.48%	15	29	PP	419.62	419.48	423.92	4.30	CLB	
G1	G2	10.00%	18	51	PP	432.60	427.50	434.66	2.06	HW	
G2	G3	1.00%	18	261	PP	425.00	422.39	431.02	6.62	DI	
G3	G4	0.50%	18	286	PP	422.39	420.96	426.18	3.79	JB	
G4	G5	0.50%	24	143	PP	420.96	420.25	424.45	3.49	JB	
G5	G6	0.53%	24	209	PP	420.25	419.15	423.85	3.60	DI	
G6	G7	0.54%	24	28	PP	419.15	419.00	422.96	3.81	JB	5.
G30	G3	1.00%	18	42	PP	422.81	422.39	426.99	4.18	DI	
G40	G4	0.61%	18	31	PP	421.15	420.96	425.01	3.86	DI	4.
G50	G5	0.60%	18	48	PP	420.54	420.25	423.83	3.29	DI	4.
H1	H2	0.50%	15	22	RCP	421.06	420.95	424.32	3.26	HW	5.
J1	J2	2.56%	30	82	RCP	415.90	413.80	419.80	3.90	HW	5.

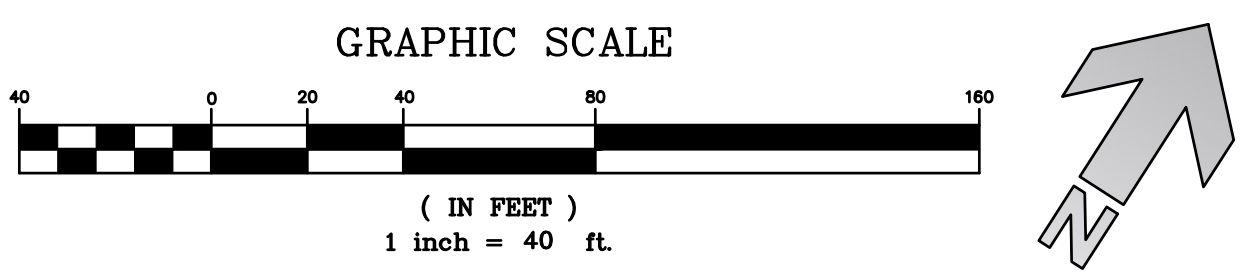
LEGEND

- CB CATCH BASIN (SEE DETAIL ON C-8.05)
- DI CONFLICT JUNCTION BOX (SEE DETAIL ON C-8.06)
- DI DROP INLET (SEE DETAIL ON C-8.06)
- FES FLARED END SECTION (CONC.) (SEE DETAIL ON C-8.07)
- JB JUNCTION BOX (SEE DETAIL ON C-8.07)
- HW HEADWALL (SEE DETAIL ON C-8.08)
- PP POLYPROPYLENE PIPE
- RCP REINFORCED CONC. PIPE (CL. #)
- AS STRUCTURE NUMBER

NOTES

- TOP ELEV. IS TOP OF CURB FOR CATCH BASINS, TOP OF RM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS, FINISH GRADE FOR CLEANOUTS, AND TOP OF GRATE IN TRENCH DRAIN.
- ALL PIPES SHALL BE POLYPROPYLENE UNLESS OTHERWISE NOTED.
- DOWNSTREAM STRUCTURE FROM OUTLET CONTROL. STRUCTURE IS A HW.
- USE C-8.09.
- DOWNSTREAM STRUCTURE IS A FES.
- ALL PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF GRATES, MANHOLES, OR TO THE END OF THE FES.
- DOUBLE INLET

AS-BUILT SURVEY
1. CONTRACTOR TO PROVIDE AN AS-BUILT TOPOGRAPHIC SURVEY AT THE COMPLETION OF THIS PROJECT.



CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.5716
LA: C-106, PE: C-1595

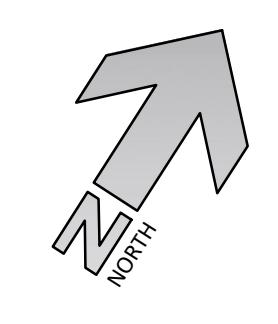
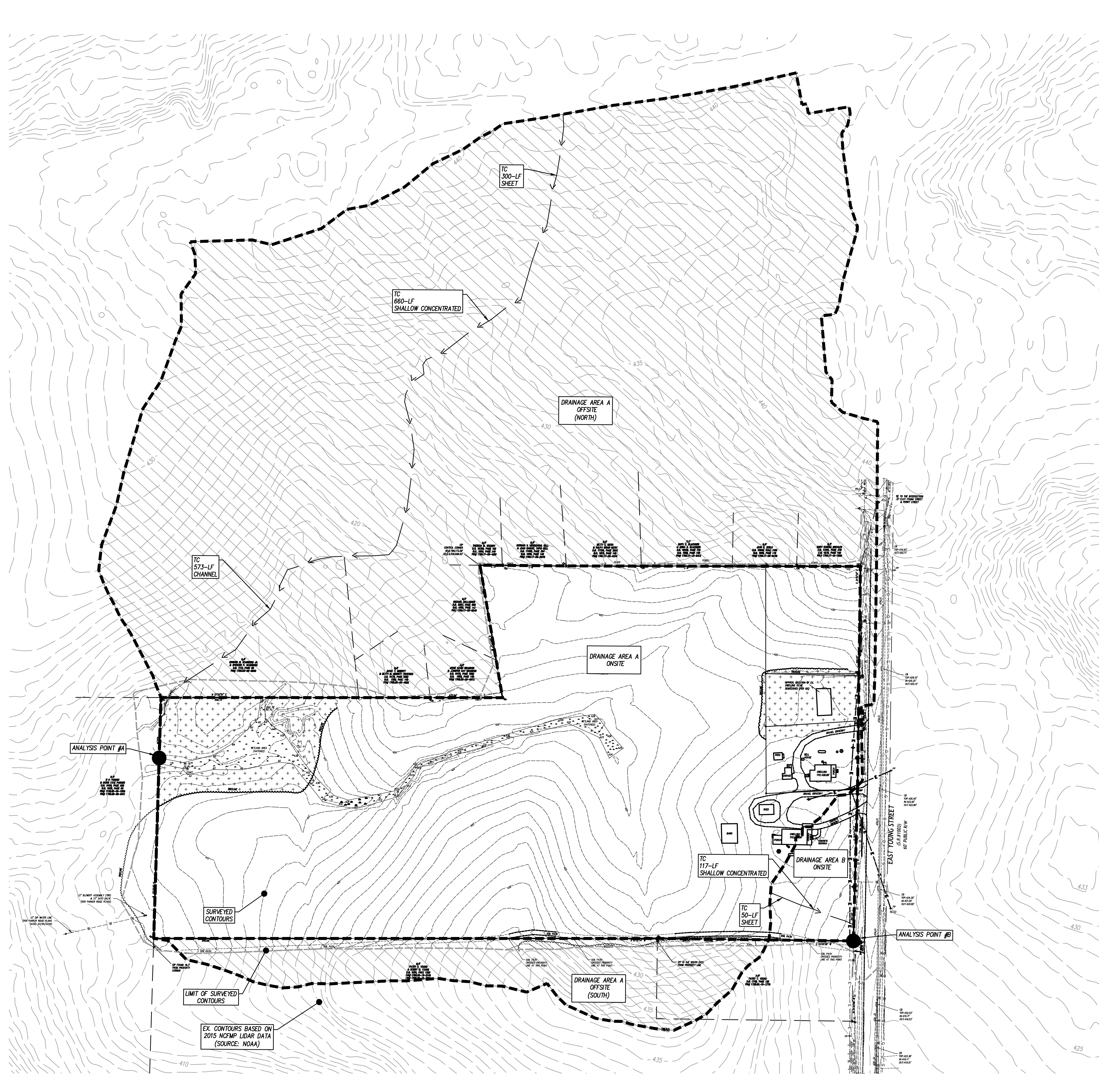
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Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
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CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**GRADING PLAN
AREA B**
C-3.02



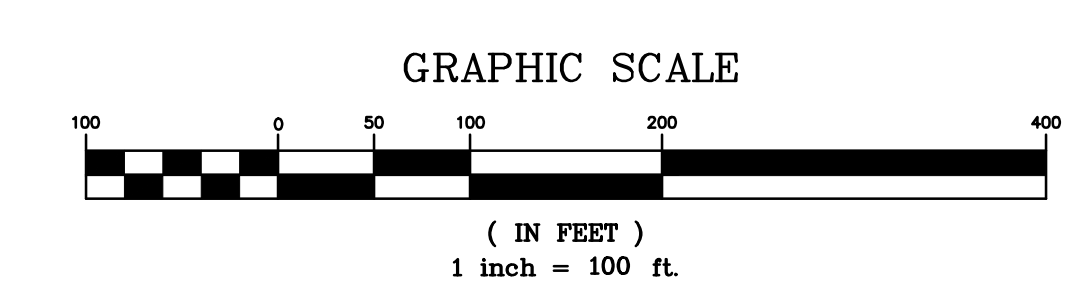
LEGEND

DRAINAGE AREAS	
OFFSITE DRAINAGE AREA ROUTED THROUGH PROJECT SITE	
NOAA LIDAR CONTOURS	
EXISTING CONTOURS	

DRAINAGE AREAS SUB-AREAS

DRAINAGE AREA	DRAINAGE AREA	AREA (AC)
" A "	PRE-DEVELOPMENT DRAINAGE AREA A ONSITE	16.62
	PRE-DEVELOPMENT DRAINAGE AREA A OFFSITE	29.65 (TOTAL) =27.18(NORTH)+2.47(SOUTH)
" B "	PRE-DEVELOPMENT DRAINAGE AREA B ONSITE	0.77

FOR PERMITTING ONLY.
SEE SHEET C-3.00 FOR CONSTRUCTION.



CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY PLANS
FOR REVIEW ONLY

**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**PRE-DEVELOPMENT
DRAINAGE MAP**

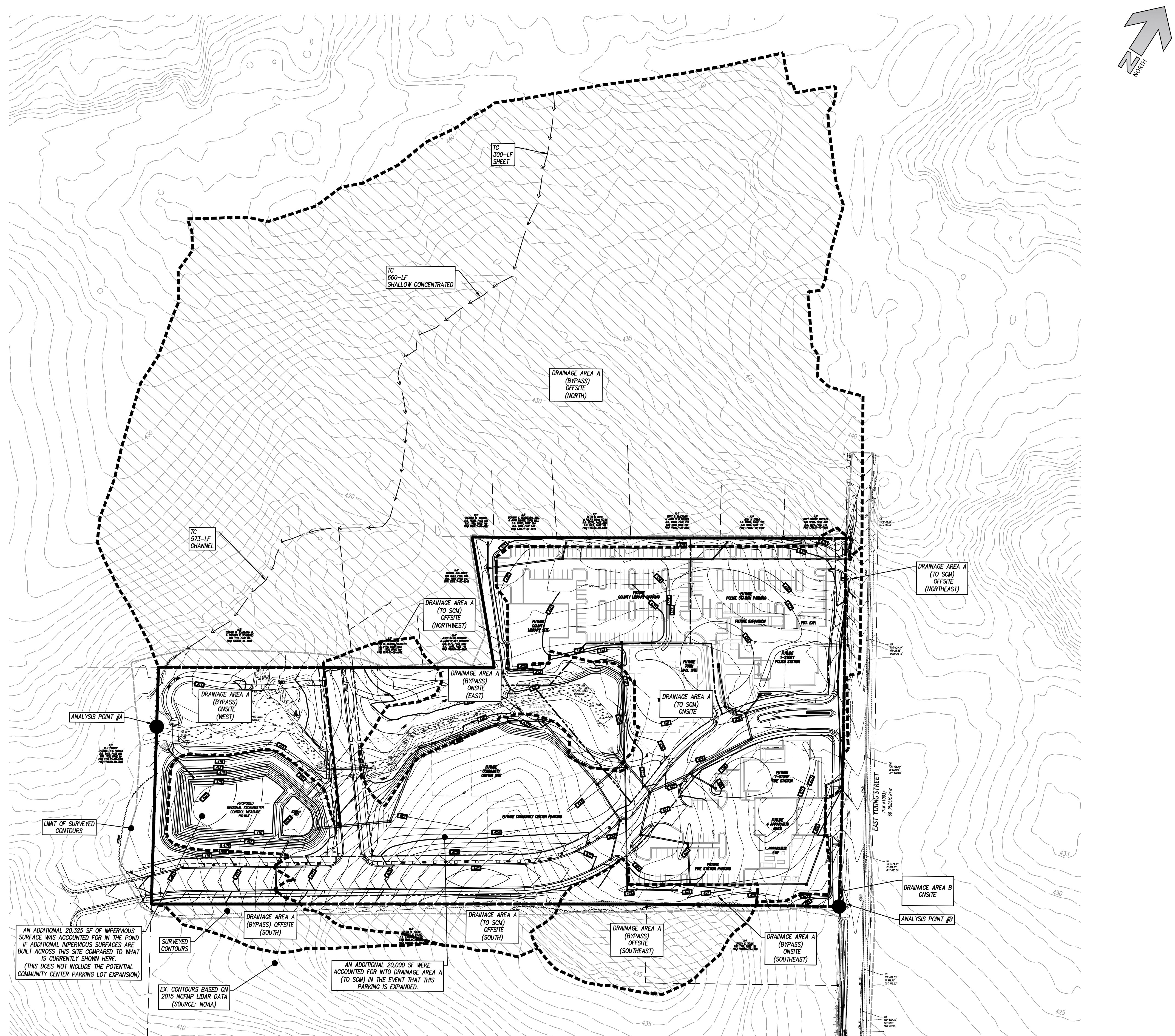
C-3.10

NO.	DATE	DESCRIPTION





DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**POST-DEVELOPMENT
DRAINAGE MAP**

C-3.11



LEGEND

DRAINAGE AREAS	
OFFSITE DRAINAGE AREA ROUTED THROUGH PROJECT SITE	
NOAA LIDAR CONTOURS	
EXISTING CONTOURS	

DRAINAGE AREAS SUB-AREAS

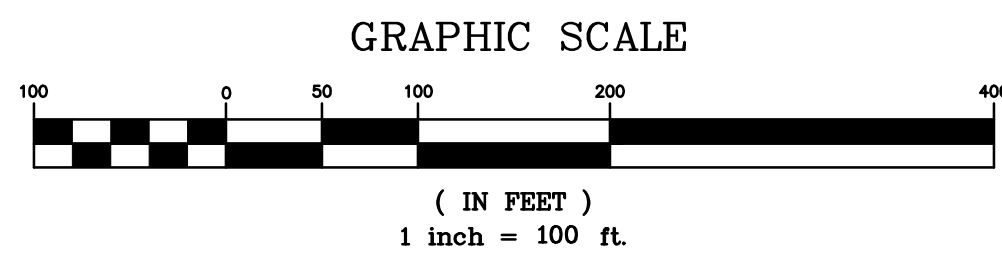
DRAINAGE AREA	DRAINAGE AREA	AREA (AC)
" A "	POST-DEVELOPMENT DRAINAGE AREA A-1 TO SCM ONSITE	12.70
	POST-DEVELOPMENT DRAINAGE AREA A-1 TO SCM OFFSITE	1.05 (TOTAL)
	POST-DEVELOPMENT DRAINAGE AREA A-2 BYPASS ONSITE	4.51 (TOTAL)
	POST-DEVELOPMENT DRAINAGE AREA A-2 BYPASS OFFSITE	28.60 (TOTAL)
" B "	POST-DEVELOPMENT DRAINAGE AREA B ONSITE	0.17
	POST-DEVELOPMENT DRAINAGE AREA B OFFSITE	-

FOR PERMITTING ONLY.
SEE SHEET C-3.00 FOR CONSTRUCTION.

AN ADDITIONAL 20,325 SF OF IMPERVIOUS SURFACE WAS ACCOUNTED FOR IN THE POND IF ADDITIONAL IMPERVIOUS SURFACES ARE BUILT ACROSS THIS SITE COMPARED TO WHAT IS CURRENTLY SHOWN HERE.
(THIS DOES NOT INCLUDE THE POTENTIAL COMMUNITY CENTER PARKING LOT EXPANSION)

EX. CONTOURS BASED ON 2015 NCHM LIDAR DATA (SOURCE: NOAA)

AN ADDITIONAL 20,000 SF WERE ACCOUNTED FOR INTO DRAINAGE AREA A (TO SCM) IN THE EVENT THAT THIS PARKING IS EXPANDED.

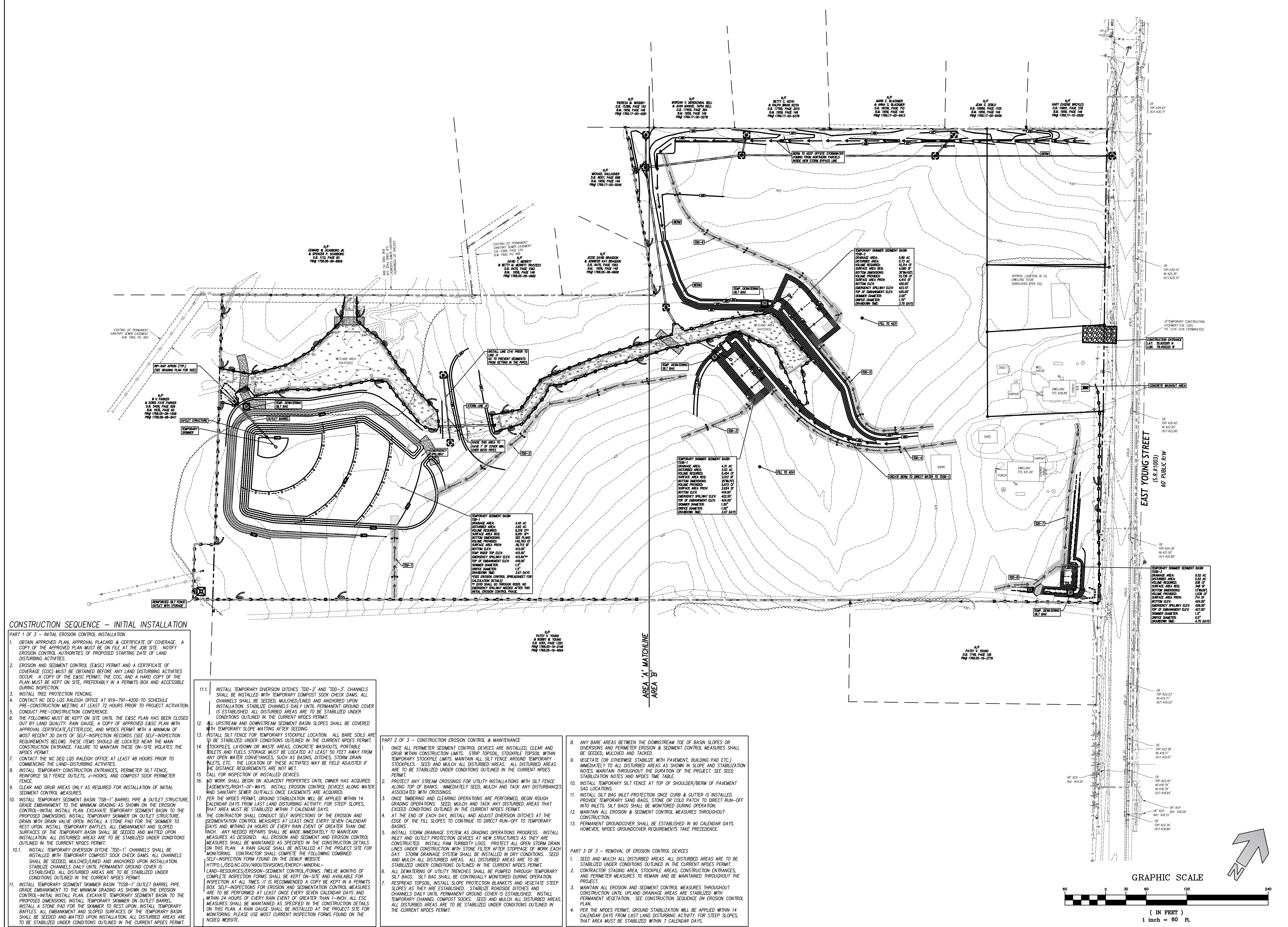


NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
 DRAWN BY: PH, LM
 DATE: 22-JAN-2026
 PROJECT NO: 22-205

**OVERALL
 INITIAL EROSION
 CONTROL PLAN**

C-4.00



CONSTRUCTION SEQUENCE - INITIAL INSTALLATION

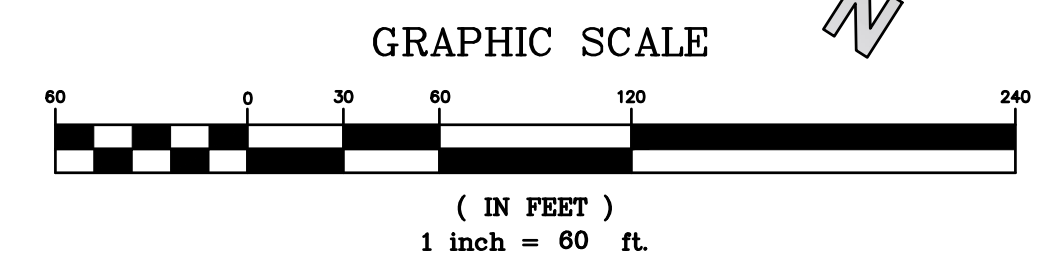
- PART 1 OF 3 - INITIAL EROSION CONTROL INSTALLATION
- OBTAIN APPROVED PLAN, APPROVAL PLACARD & CERTIFICATE OF COVERAGE. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
 - EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. A COPY OF THE E&S PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX AND ACCESSIBLE DURING INSPECTION.
 - INSTALL TREE PROTECTION FENCING.
 - CONTACT NC DEQ LOS RALEIGH OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
 - CONDUCT PRE-CONSTRUCTION CONFERENCE.
 - THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&S PLAN HAS BEEN CLOSED OUT BY LAND QUALITY RAIN GAUGE, A COPY OF APPROVED E&S PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
 - CONTACT THE NC DEQ LOS RALEIGH OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
 - INSTALL TEMPORARY CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, REINFORCE SILT FENCE OUTLETS, J-HOOKS, AND COMPOST SOCK PERIMETER FENCE.
 - CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
 - INSTALL TEMPORARY SEDIMENT BASIN "TSB-1" BARREL PIPE & OUTLET STRUCTURE. GRADE EMBANKMENT TO THE MINIMUM GRADING AS SHOWN ON THE EROSION CONTROL-INITIAL INSTALL PLAN. EXCAVATE TEMPORARY SEDIMENT BASIN TO THE PROPOSED DIMENSIONS. INSTALL TEMPORARY SKIMMER ON OUTLET STRUCTURE. DRAIN WITH DRAIN VALVE OPEN. INSTALL A STONE PAD FOR THE SKIMMER TO REST UPON. INSTALL TEMPORARY BAFELLES. ALL EMBANKMENT AND SLOPED SURFACES OF THE TEMPORARY BASIN SHALL BE SEEDDED AND MATTED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL TEMPORARY DIVERSION DITCH "TDD-1". CHANNELS SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDDED, MULCHED/LINED AND ANCHORED UPON INSTALLATION. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL TEMPORARY SEDIMENT SKIMMER BASIN "TSSB-1" OUTLET BARREL PIPE. GRADE EMBANKMENT TO THE MINIMUM GRADING AS SHOWN ON THE EROSION CONTROL-INITIAL INSTALL PLAN. EXCAVATE TEMPORARY SEDIMENT BASIN TO THE PROPOSED DIMENSIONS. INSTALL TEMPORARY SKIMMER ON OUTLET BARREL. INSTALL A STONE PAD FOR THE SKIMMER TO REST UPON. INSTALL TEMPORARY BAFELLES. ALL EMBANKMENT AND SLOPED SURFACES OF THE TEMPORARY BASIN SHALL BE SEEDDED AND MATTED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.

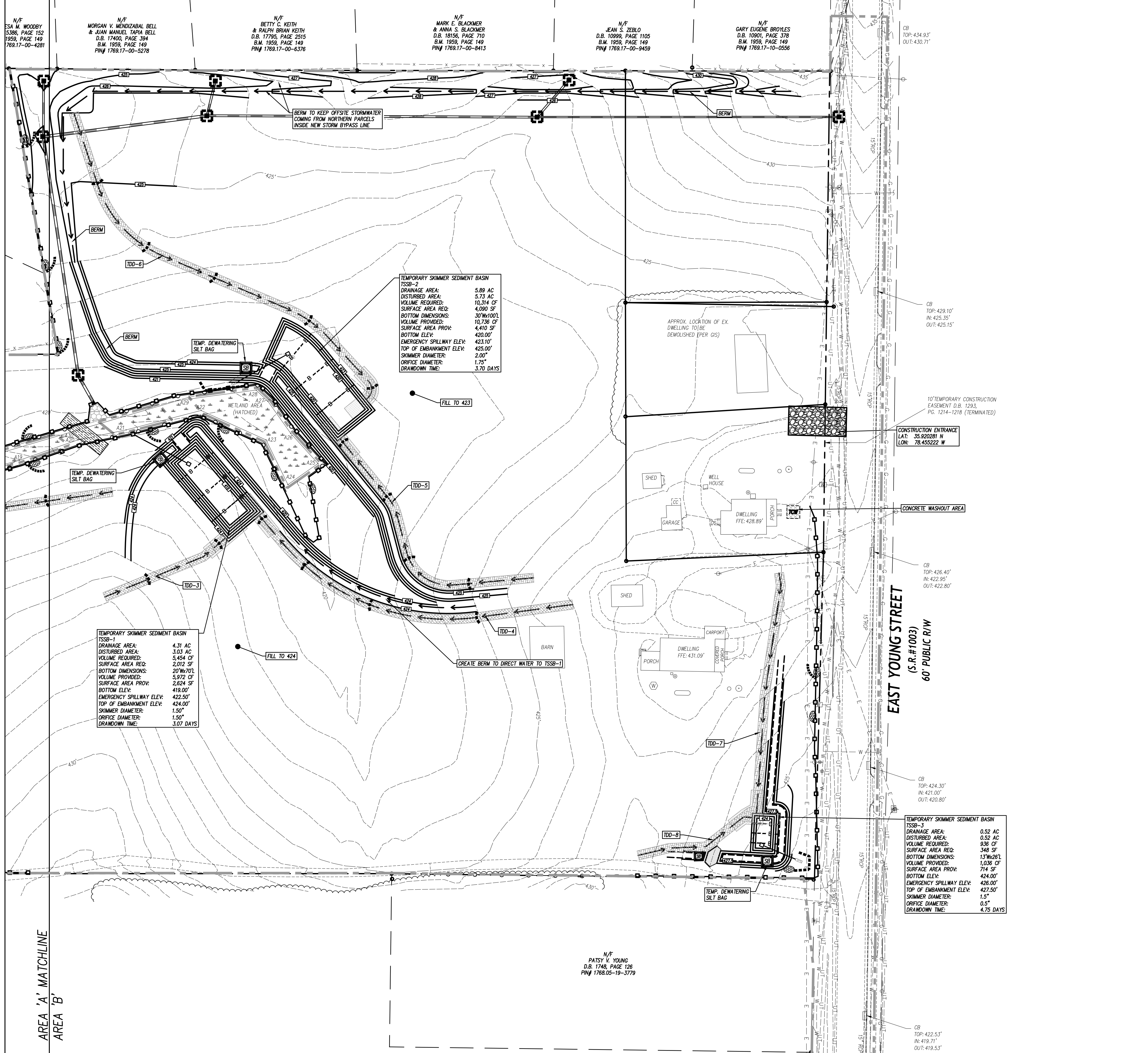
- INSTALL TEMPORARY DIVERSION DITCHES "TDD-2" AND "TDD-3". CHANNELS SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDDED, MULCHED/LINED AND ANCHORED UPON INSTALLATION. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
- ALL UPSTREAM AND DOWNSTREAM SEDIMENT BASIN SLOPES SHALL BE COVERED WITH TEMPORARY SLOPE MATTING AFTER SEEDING.
- INSTALL SILT FENCE FOR TEMPORARY STOCKPILE LOCATION. ALL BARE SOILS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT. STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WAREHOUSES, PORTABLE TOILETS AND FUELS STORAGE MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC. THE LOCATION OF THESE ACTIVITIES MAY BE FIELD ADJUSTED IF THE DISTANCE REQUIREMENTS ARE NOT MET.
- CALL FOR INSPECTION OF INSTALLED DEVICES.
- NO WORK SHALL BEGIN ON ADJACENT PROPERTIES UNTIL OWNER HAS ACQUIRED EASEMENTS/RIGHT-OF-WAYS. INSTALL EROSION CONTROL DEVICES ALONG WATER AND SANITARY SEWER OUTFALLS AS ACQUIRED.
- PER THE NPDES PERMIT, GROUND STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, THAT AREA MUST BE STABILIZED WITHIN 7 CALENDAR DAYS.
- THE CONTRACTOR SHALL CONDUCT SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN ONE INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION AND SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING. CONTRACTOR SHALL COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEQR WEBSITE: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1-INCH. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING. PLEASE USE MOST CURRENT INSPECTION FORMS FOUND ON THE WEBSITE.

- PART 2 OF 3 - CONSTRUCTION EROSION CONTROL & MAINTENANCE
- ONCE ALL PERIMETER SEDIMENT CONTROL DEVICES ARE INSTALLED, CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - PROTECT ANY STREAM CROSSINGS FOR UTILITY INSTALLATIONS WITH SILT FENCE ALONG TOP OF BANKS. IMMEDIATELY SEED, MULCH AND TACK ANY DISTURBANCES ASSOCIATED WITH CROSSINGS.
 - ONCE TIMBERING AND CLEARING OPERATIONS ARE PERFORMED, BEGIN ROUGH GRADING OPERATIONS. SEED, MULCH AND TACK ANY DISTURBED AREAS THAT EXCEED CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - AT THE END OF EACH DAY, INSTALL AND ADJUST DIVERSION DITCHES AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS.
 - INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. INSTALL FPM TURBIDITY LOGS. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - ALL DEWATERING OF UTILITY TRENCHES SHALL BE PUMPED THROUGH TEMPORARY SILT BAGS. SILT BAG SHALL BE CONTINUALLY MONITORED DURING OPERATION.
 - RESPIREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED. STABILIZE ROADSIDE DITCHES AND CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. INSTALL TEMPORARY CHANNEL, COMPOST SOCKS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.

- ANY BARE AREAS BETWEEN THE DOWNSTREAM TOE OF BASIN SLOPES OR DIVERSIONS AND PERIMETER EROSION & SEDIMENT CONTROL MEASURES SHALL BE SEEDDED, MULCHED AND TACKED.
- VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEE SEED STABILIZATION NOTES AND NPDES TIME TABLE.
- INSTALL TEMPORARY SILT FENCE AT TOP OF SHOULDER/BERM OF PAVEMENT SAC LOCATIONS.
- INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS, STONE, OR COLD PATCH TO DIRECT RUN-OFF INTO INLETS. SILT BAGS SHALL BE MONITORED DURING OPERATION.
- MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
- PERMANENT GROUND COVER SHALL BE ESTABLISHED IN 90 CALENDAR DAYS. HOWEVER, NPDES GROUND COVER REQUIREMENTS TAKE PRECEDENCE.

- PART 3 OF 3 - REMOVAL OF EROSION CONTROL DEVICES
- SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - CONTRACTOR STAGING AREA, STOCKPILE AREAS, CONSTRUCTION ENTRANCES, AND PERIMETER MEASURES TO REMAIN AND BE MAINTAINED THROUGHOUT THE PROJECT.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL UPLAND DRAINAGE AREAS ARE STABILIZED WITH PERMANENT VEGETATION. SEE CONSTRUCTION SEQUENCE ON EROSION CONTROL PLAN.
 - PER THE NPDES PERMIT, GROUND STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, THAT AREA MUST BE STABILIZED WITHIN 7 CALENDAR DAYS.





N/F
328 M. WOODY
D.B. 10999, PAGE 152
B.M. 1959, PAGE 149
PIN# 1769.17-00-4281

N/F
MORGAN V. MENDOZABAL BELL
& JUAN MANUEL TAPIA BELL
D.B. 17400, PAGE 394
B.M. 1959, PAGE 149
PIN# 1769.17-00-5278

N/F
BETTY C. KEITH
& RALPH BRIAN KEITH
D.B. 17795, PAGE 2515
B.M. 1959, PAGE 149
PIN# 1769.17-00-6378

N/F
MARK E. BLACKMER
& ANNA S. BLACKMER
D.B. 18156, PAGE 710
B.M. 1959, PAGE 149
PIN# 1769.17-00-8413

N/F
JEAN S. ZEBLO
D.B. 10999, PAGE 1105
B.M. 1959, PAGE 149
PIN# 1769.17-00-9459

N/F
GARY EUGENE BROYLES
D.B. 10901, PAGE 378
B.M. 1959, PAGE 149
PIN# 1769.17-10-0556

TEMPORARY SKIMMER SEDIMENT BASIN
TSSB-2

DRAINAGE AREA: 5.89 AC
DISTURBED AREA: 5.73 AC
VOLUME REQUIRED: 10,314 CF
SURFACE AREA REQ: 4,090 SF
BOTTOM DIMENSIONS: 30'x100'
VOLUME PROVIDED: 10,736 CF
SURFACE AREA PROV: 4,410 SF
BOTTOM ELEV: 420.00'
EMERGENCY SPILLWAY ELEV: 423.10'
TOP OF EMBANKMENT ELEV: 425.00'
SKIMMER DIAMETER: 2.00'
ORIFICE DIAMETER: 1.75"
DRAINDOWN TIME: 3.70 DAYS

TEMPORARY SKIMMER SEDIMENT BASIN
TSSB-1

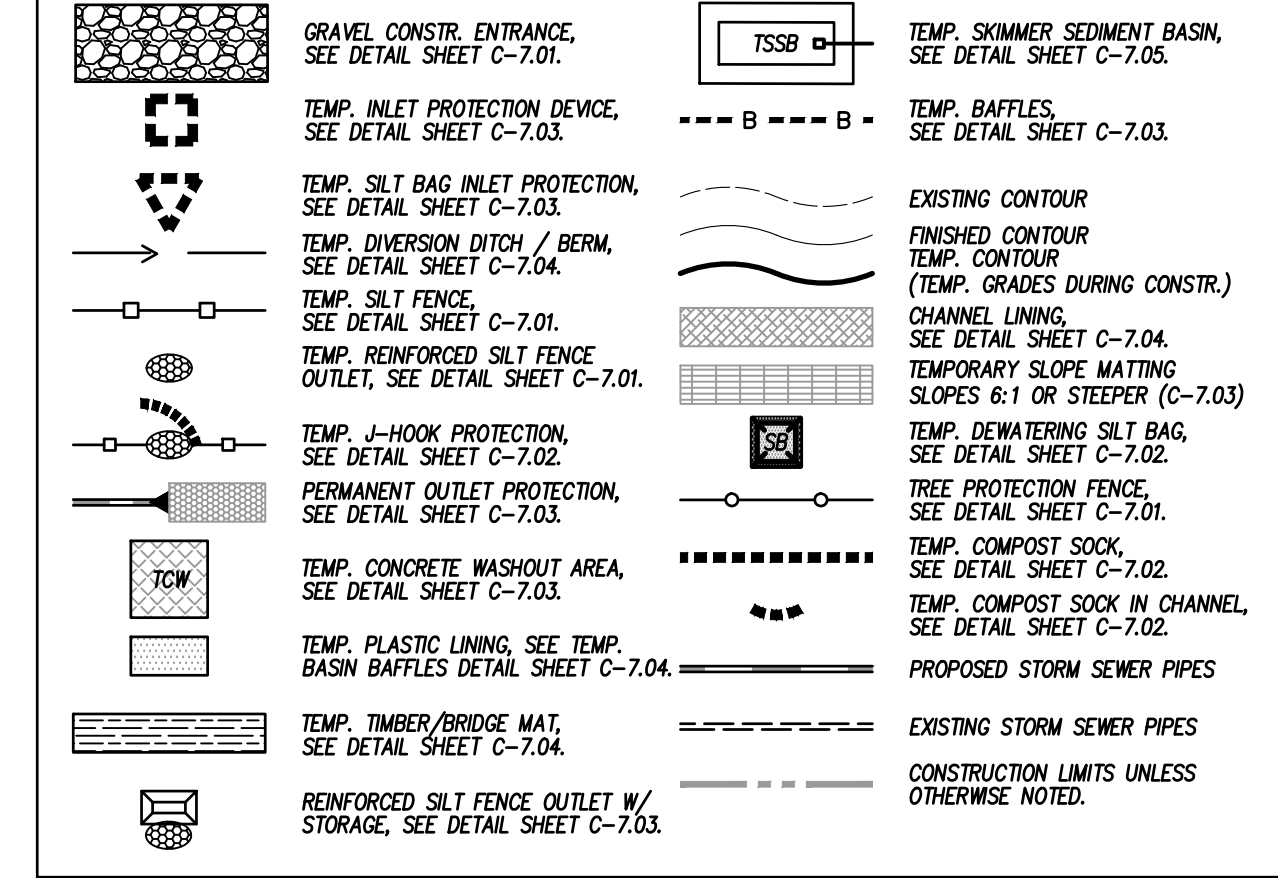
DRAINAGE AREA: 4.31 AC
DISTURBED AREA: 3.03 AC
VOLUME REQUIRED: 5,454 CF
SURFACE AREA REQ: 2,012 SF
BOTTOM DIMENSIONS: 20'x70'
VOLUME PROVIDED: 5,972 CF
SURFACE AREA PROV: 2,624 SF
BOTTOM ELEV: 419.00'
EMERGENCY SPILLWAY ELEV: 422.50'
TOP OF EMBANKMENT ELEV: 424.00'
SKIMMER DIAMETER: 1.50'
ORIFICE DIAMETER: 1.50"
DRAINDOWN TIME: 3.07 DAYS

TEMPORARY SKIMMER SEDIMENT BASIN
TSSB-3

DRAINAGE AREA: 0.52 AC
DISTURBED AREA: 0.52 AC
VOLUME REQUIRED: 936 CF
SURFACE AREA REQ: 348 SF
BOTTOM DIMENSIONS: 13'x26'
VOLUME PROVIDED: 1,036 CF
SURFACE AREA PROV: 714 SF
BOTTOM ELEV: 424.00'
EMERGENCY SPILLWAY ELEV: 426.00'
TOP OF EMBANKMENT ELEV: 427.50'
SKIMMER DIAMETER: 1.5"
ORIFICE DIAMETER: 0.5"
DRAINDOWN TIME: 4.75 DAYS

N/F
PATSY W. YOUNG
D.B. 1748, PAGE 126
PIN# 1768.05-19-3779

LEGEND



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, NCEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. 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. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR AGENCIES.
4. TOTAL DISTURBED AREA: 18.6 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR DRAINAGE SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
7. THE INDICATED STOCKPILES 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. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
8. TREE PROTECTION FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
10. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
11. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C-7.04 (PERMANENT CHANNEL) AND C-7.04 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
12. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
13. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
14. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
15. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
16. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C-7.01) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C-7.01) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C-7.02 FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT FOR THE FINANCIALLY RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCEM/RS'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF INSPECTION REPORTS ON-SITE.

SLOPE & SURFACE STABILIZATION

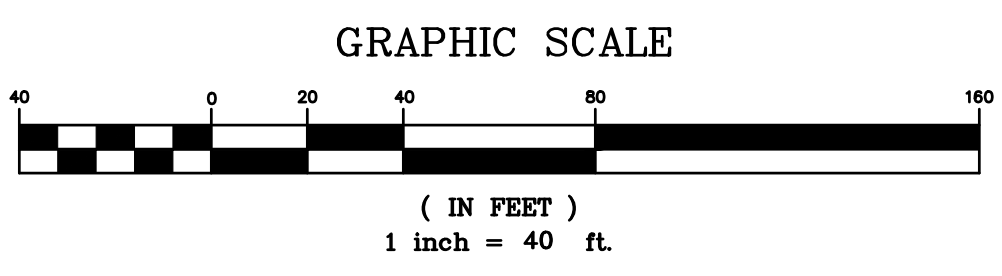
GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C-7.01.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b)).

THE REQUIREMENTS ON SHEET C-7.01 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCISOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C-4.00 EROSION CONTROL CONSTRUCTION SEQUENCE.



PRELIMINARY PLANS
FOR REVIEW ONLY

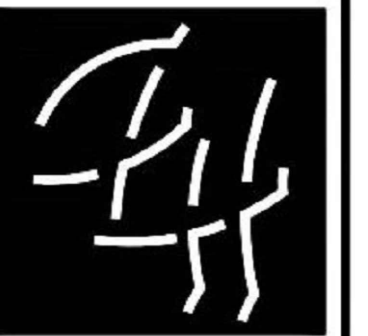
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

INITIAL EROSION CONTROL PLAN AREA B

C-4.02



**CLH
DESIGN**

CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY PLANS
FOR REVIEW ONLY

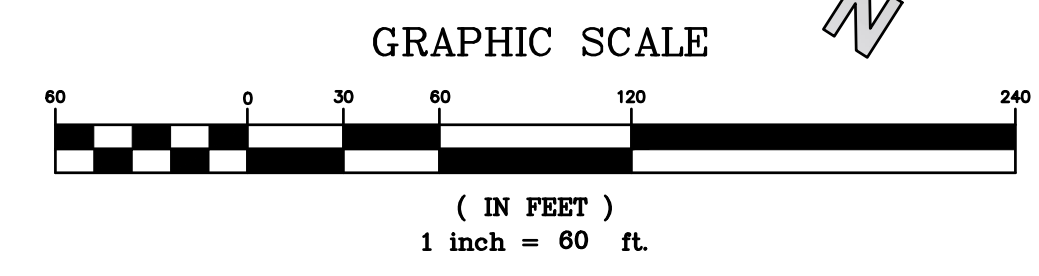
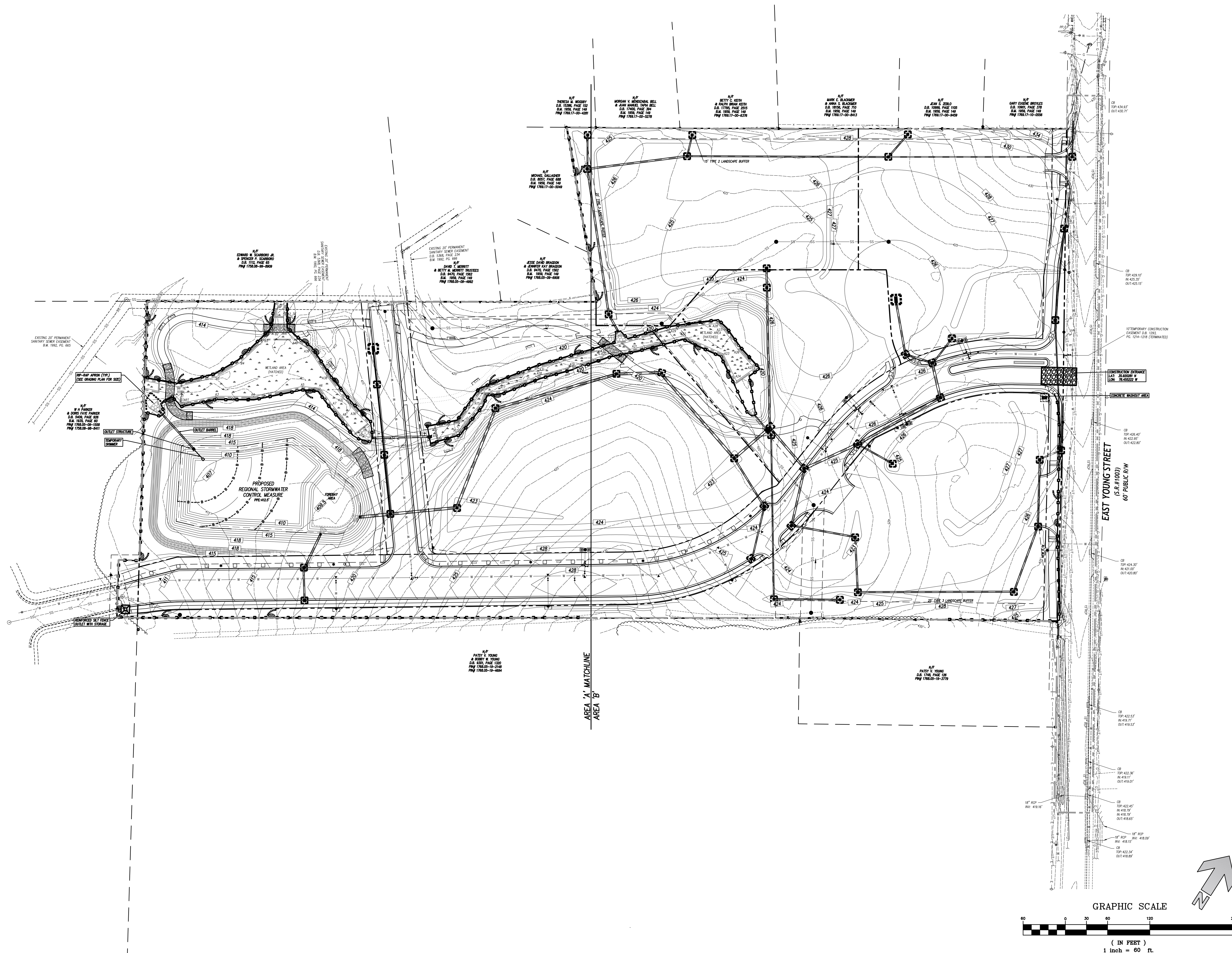
**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

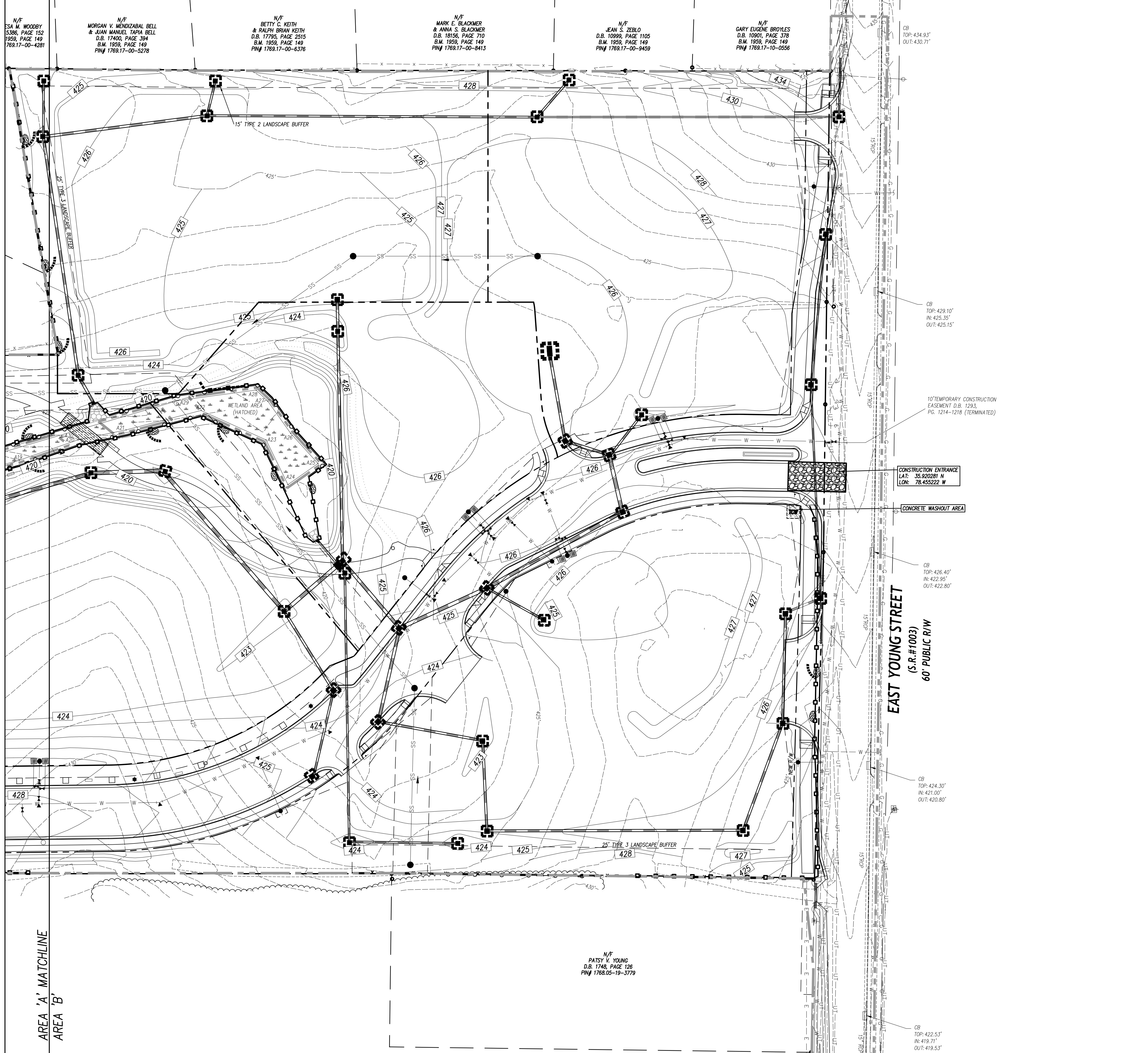
NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**OVERALL
EROSION CONTROL
PLAN**

C-4.10





N/F
334 M. WOODY
D.B. 1958, PAGE 152
1959, PAGE 149
PIN# 1768.17-00-4281

N/F
MORGAN V. MENDOZABAL BELL
& JUAN MANUEL TAPIA BELL
D.B. 17400, PAGE 394
B.M. 1959, PAGE 149
PIN# 1768.17-00-5278

N/F
BETTY C. KEITH
& RALPH BRIAN KEITH
D.B. 17785, PAGE 2515
B.M. 1959, PAGE 149
PIN# 1768.17-00-6376

N/F
MARK E. BLACKMER
& ANNA S. BLACKMER
D.B. 18156, PAGE 710
B.M. 1959, PAGE 149
PIN# 1768.17-00-8413

N/F
JEAN S. ZEBLO
D.B. 10999, PAGE 1105
B.M. 1959, PAGE 149
PIN# 1768.17-00-9459

N/F
GARY EUGENE BROYLES
D.B. 10901, PAGE 378
B.M. 1959, PAGE 149
PIN# 1768.17-10-0556

LEGEND

	GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C-7.01.		TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEET C-7.05.
	TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET C-7.03.		TEMP. BAFFLES, SEE DETAIL SHEET C-7.03.
	TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C-7.03.		EXISTING CONTOUR
	TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C-7.04.		FINISHED CONTOUR
	TEMP. SILT FENCE, SEE DETAIL SHEET C-7.01.		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C-7.01.		CHANNEL LINING, SEE DETAIL SHEET C-7.04.
	TEMP. 4-HOOK PROTECTION, SEE DETAIL SHEET C-7.02.		TEMPORARY SLOPE MATTING SLOPES 6:1 OR STEEPER (C-7.03)
	PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C-7.03.		TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET C-7.02.
	TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C-7.03.		TREE PROTECTION FENCE, SEE DETAIL SHEET C-7.01.
	TEMP. PLASTIC LINING, SEE TEMP. BASIN BAFFLES DETAIL SHEET C-7.04.		TEMP. COMPOST SOCK, SEE DETAIL SHEET C-7.02.
	TEMP. TIMBER/BRIDGE MAT, SEE DETAIL SHEET C-7.04.		TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET C-7.02.
	REINFORCED SILT FENCE OUTLET W/ STORAGE, SEE DETAIL SHEET C-7.03.		PROPOSED STORM SEWER PIPES
			CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, NCEQ, AND NCCOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - 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. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR AGENCIES.
 - TOTAL DISTURBED AREA: 18.6 AC.
 - 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. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
 - THE INDICATED STAGING AREA IS INTENDED FOR STOCKPILING OF 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. STOCKPILES SHALL BE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 - TREE PROTECTION FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
 - TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
 - ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C-7.04 (PERMANENT CHANNEL) AND C-7.04 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
 - ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
 - ANY DEWATERING OF STORM UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
 - GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
 - CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

- MAINTENANCE PLAN**
- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C-7.01) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 - FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C-7.01) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 - THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
 - SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
 - ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C-7.02 FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT FOR THE FINANCIALLY RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCEM/RS'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF INSPECTION REPORTS ON-SITE.

SLOPE & SURFACE STABILIZATION

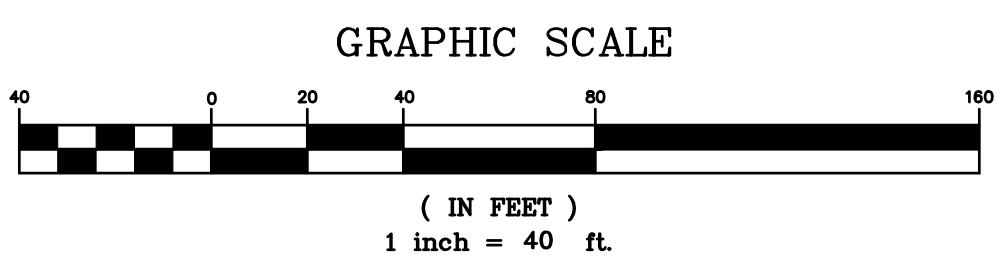
GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C-7.01.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b)).

THE REQUIREMENTS ON SHEET C-7.01 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCISOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C-4.00 EROSION CONTROL CONSTRUCTION SEQUENCE.



CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY PLANS
FOR REVIEW ONLY

**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC

PERMIT SET
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DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**EROSION CONTROL
PLAN
AREA B**

C-4.12

AREA 'A' MATCHLINE
AREA 'B'

N/F
PATSY W. YOUNG
D.B. 1748, PAGE 126
PIN# 1768.05-19-3779

EAST YOUNG STREET
(S.R.#1003)
60' PUBLIC R/W



CLH design, p.a.
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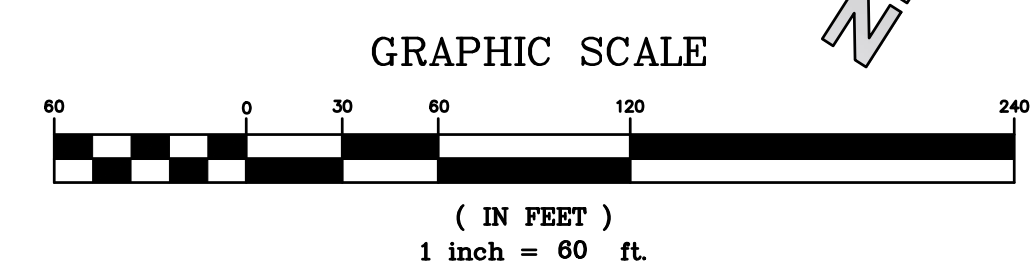
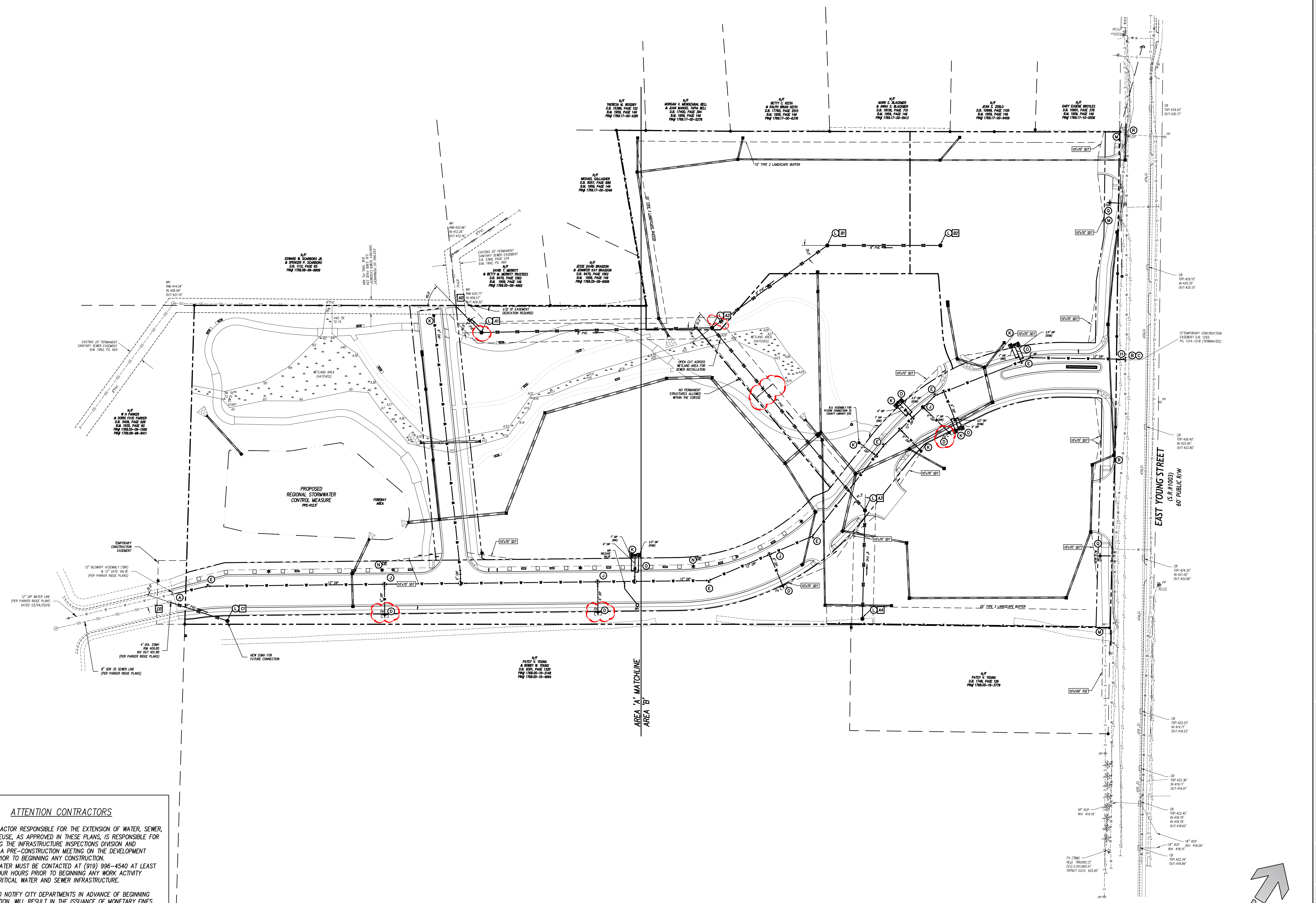
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**OVERALL
UTILITY PLAN**

C-5.00



ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION.

RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION 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.

ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION. RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION 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.

UTILITY LEGEND

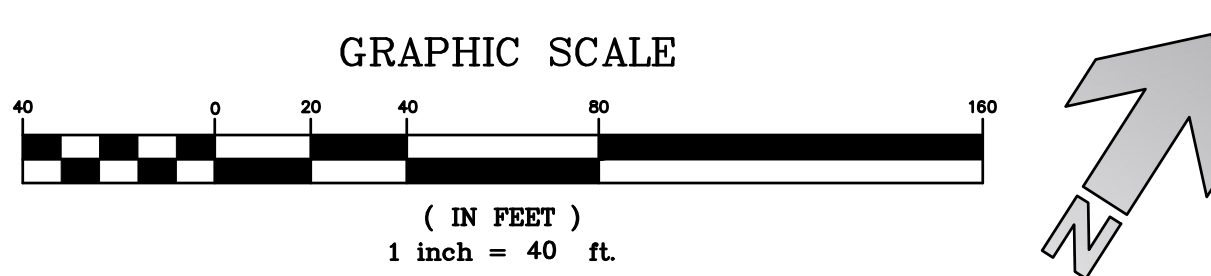
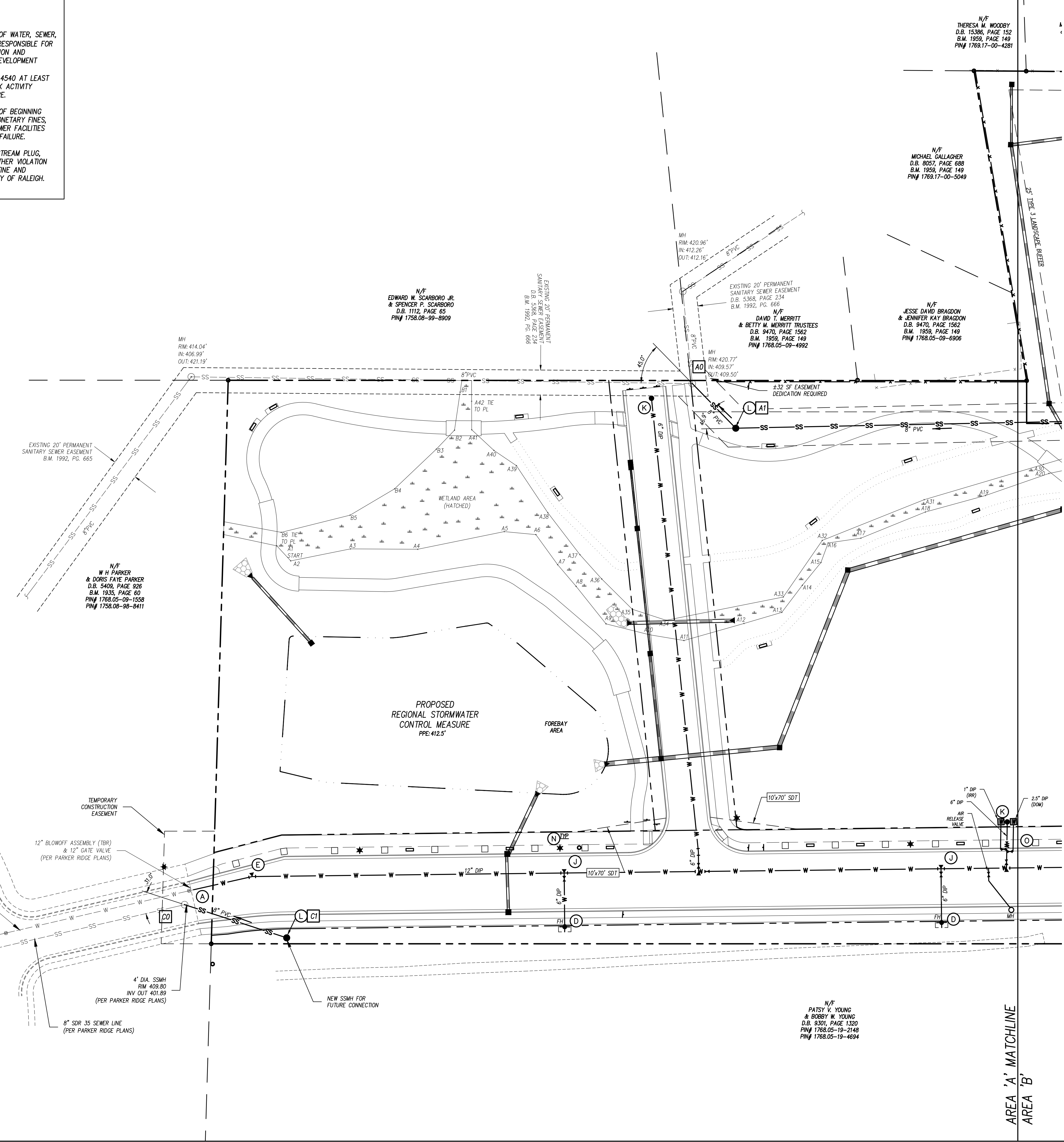
	EXISTING	PROPOSED
CHILLED WATER	---C-W---	---C-W---
ELECTRICAL (OVERHEAD)	---E---	---E---
ELECTRICAL (UNDERGROUND)	---UE---	---UE---
FOUNDATION DRAIN	---FD---	---FD---
GAS	---G---	---G---
SANITARY SEWER	---SS---	---SS---
TELEPHONE (OVERHEAD)	---T---	---T---
TELEPHONE (UNDERGROUND)	---UT---	---UT---
WATER	---W---	---W---
ROOF DRAIN	---RD---	---RD---
FIRE PROTECTION	---FP---	---FP---
STORM DRAIN	---SD---	---SD---
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	LP	LP
UTILITY POLE	PP	PP
MANHOLE	MH	MH
CLEAN OUT	CO	CO
DROP INLET, CATCH BASIN	DI, CB	DI, CB
FIRE HYDRANT	FH	FH
WATER VALVE	WV	WV
POST INDICATOR VALVE (PIV)		
FIRE DEPARTMENT CONNECTION (FDC)		
THRUST BLOCKING		
SANITARY SEWER STRUCTURE IDENTIFICATION		

GENERAL NOTES-UTILITY

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3'-FT.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4'-FT TO FINISH GRADE IN TRAFFIC AREAS.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
- SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24"-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 0.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
- ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) REMOVE EXISTING BLOW-OFF ASSEMBLY AND CONNECT 12"-IN WATER MAIN TO EXISTING 12"-IN WATER MAIN. CONTRACTOR TO TIE TO EXISTING WATER LINE.
- (B) SIZE & LOCATION OF EXISTING MAIN TO BE FIELD VERIFIED.
- (C) TAPPING SLEEVE, VALVE AND BLOCKING ASSEMBLY SEE SPECIFICATIONS.
- (D) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C-9.01.
- (E) THRUST BLOCKING, TYP. SEE DETAIL SHEET C-9.01.
- (F) 6"-IN DOMESTIC WATER METER, SEE DETAIL SHEET C-9.03.
- (G) 6"-IN ZURN-MILKINS MODEL 375 REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C-9.03. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (H) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C-9.02.
- (J) FIRE HYDRANT LINE CONNECTION (=1x 12"x6" TEE + 1x 6" GATE VALVE + 1x THRUST BLOCK)
- (K) TEMPORARY 6"-IN BLOW-OFF ASSEMBLY, SEE DETAIL SHEET C-9.02.
- (L) SANITARY SEWER MANHOLE, SEE DETAIL SHEET C-9.03. SEE SANITARY SEWER PLAN AND PROFILE SHEETS C-5.20 & C-5.21 FOR ADDITIONAL INFORMATION.
- (M) NEW/RELOCATED UTILITY POLE BY LOCAL UTILITY COMPANY. COORDINATE SCHEDULE, LOCATION, AND INSTALLATION WITH LOCAL UTILITY COMPANY. LOCATION SHOWN OF NEW POLE IS APPROXIMATE.
- (N) SITE LIGHT POLE BY DUKE ENERGY (APPROXIMATE LOCATION). COORDINATE INSTALLATION & SCHEDULE WITH DUKE ENERGY.
- (O) 2"-IN DOMESTIC WATER METER, SEE DETAIL SHEETS C-9.02 & C-9.03.
- (P) CONTRACTOR TO ENSURE PROPER VERTICAL SEPARATION BETWEEN EX. WATER LINE AND PROPOSED STORM LINE.
- (Q) GC TO RELOCATE EXISTING FIRE HYDRANT ASSEMBLY BEHIND PROPOSED SIDEWALK.
- (R) GC TO RELOCATE UTILITY BOX AND/OR LINE. GC TO COORDINATE WITH APPROPRIATE UTILITY PROVIDER.



PRELIMINARY PLANS
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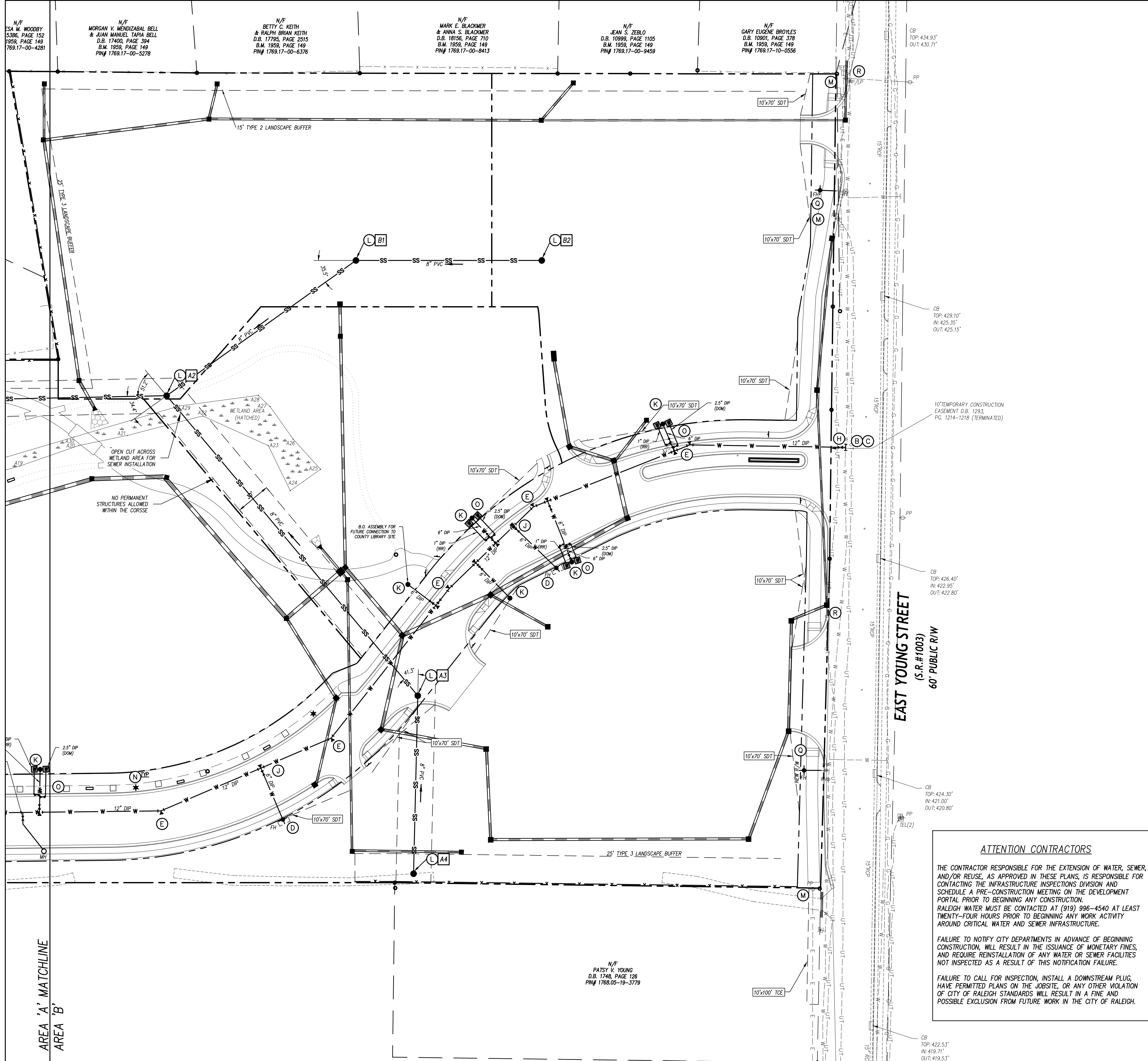
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DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**UTILITY PLAN
AREA A**

C-5.01



UTILITY LEGEND

	EXISTING	PROPOSED
CHILLED WATER	---CW---	CW
ELECTRICAL (OVERHEAD)	---E---	E
ELECTRICAL (UNDERGROUND)	---UE---	UE
FOUNDATION DRAIN	---FD---	FD
GAS	---G---	G
SANITARY SEWER	---SS---	SS
TELEPHONE (OVERHEAD)	---T---	T
TELEPHONE (UNDERGROUND)	---UT---	UT
WATER	---W---	W
ROOF DRAIN	---RD---	RD
FIRE PROTECTION	---FP---	FP
STORM DRAIN	---SD---	SD
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	☆ LP	★
UTILITY POLE	⊙ PP	⊙
MANHOLE	⊙ MH	●
CLEAN OUT	⊙ CO	⊙
DROP INLET/CATCH BASIN	□ DI, CB	■
FIRE HYDRANT	⊙ FH	⊙
WATER VALVE	⊙ WV	⊙
POST INDICATOR VALVE (PIV)		⊙
FIRE DEPARTMENT CONNECTION (FDC)		⊙
THRUST BLOCKING		⊙
SANITARY SEWER STRUCTURE IDENTIFICATION		1

- ### GENERAL NOTES-UTILITY
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - INSTALL WATERMANS WITH A COVER OF NO LESS THAN 3'-FT.
 - INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4'-FT TO FINISH GRADE IN TRAFFIC AREAS.
 - INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
 - WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
 - SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24"-IN TO STORM DRAINAGE PIPES.
 - COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
 - VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
 - ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION. SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
 - CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
 - SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
 - ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 0.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER LESS THAN 24"-IN.
 - ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
 - NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

- ### KEY NOTES
- (A) REMOVE EXISTING BLOW-OFF ASSEMBLY AND CONNECT 12"-IN WATER MAIN TO EXISTING 12"-IN WATER MAIN. CONTRACTOR TO TIE TO EXISTING WATER LINE.
 - (B) SIZE & LOCATION OF EXISTING MAIN TO BE FIELD VERIFIED.
 - (C) TAPPING SLEEVE, VALVE AND BLOCKING ASSEMBLY SEE SPECIFICATIONS.
 - (D) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C-9.01.
 - (E) THRUST BLOCKING, TYP. SEE DETAIL SHEET C-9.01.
 - (F) 6"-IN DOMESTIC WATER METER, SEE DETAIL SHEET C-9.03.
 - (G) 6"-IN BURR-WALKERS MODEL 375 REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C-9.03. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
 - (H) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C-9.02.
 - (I) FIRE HYDRANT LINE CONNECTION (1x 12"x6" TEE + 1x 6" THRUST BLOCK)
 - (J) TEMPORARY 6"-IN BLOW-OFF ASSEMBLY, SEE DETAIL SHEET C-9.02.
 - (K) SANITARY SEWER MANHOLE, SEE DETAIL SHEET C-9.03. SEE SANITARY SEWER PLAN AND PROFILE SHEETS C-9.20 & C-9.21 FOR ADDITIONAL INFORMATION.
 - (L) NEW/RELOCATED UTILITY POLE BY LOCAL UTILITY COMPANY. COORDINATE SCHEDULE, LOCATION, AND INSTALLATION WITH LOCAL UTILITY COMPANY. LOCATION SHOWN OF NEW POLE IS APPROXIMATE.
 - (M) SITE LIGHT POLE BY DUKE ENERGY (APPROXIMATE LOCATION). COORDINATE INSTALLATION & SCHEDULE WITH DUKE ENERGY.
 - (N) 2"-IN DOMESTIC WATER METER, SEE DETAIL SHEETS C-9.02 & C-9.03.
 - (O) CONTRACTOR TO ENSURE PROPER VERTICAL SEPARATION BETWEEN EX. WATER LINE AND PROPOSED STORM LINE.
 - (P) GO TO RELOCATE EXISTING FIRE HYDRANT ASSEMBLY BEHIND PROPOSED SIDEWALK.
 - (R) GO TO RELOCATE UTILITY BOX AND/OR LINE. GO TO COORDINATE WITH APPROPRIATE UTILITY PROVIDER.

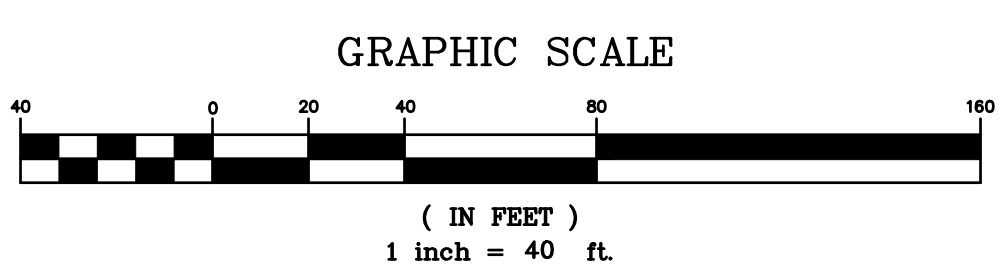
ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION.

RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION 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.



PRELIMINARY PLANS
FOR REVIEW ONLY

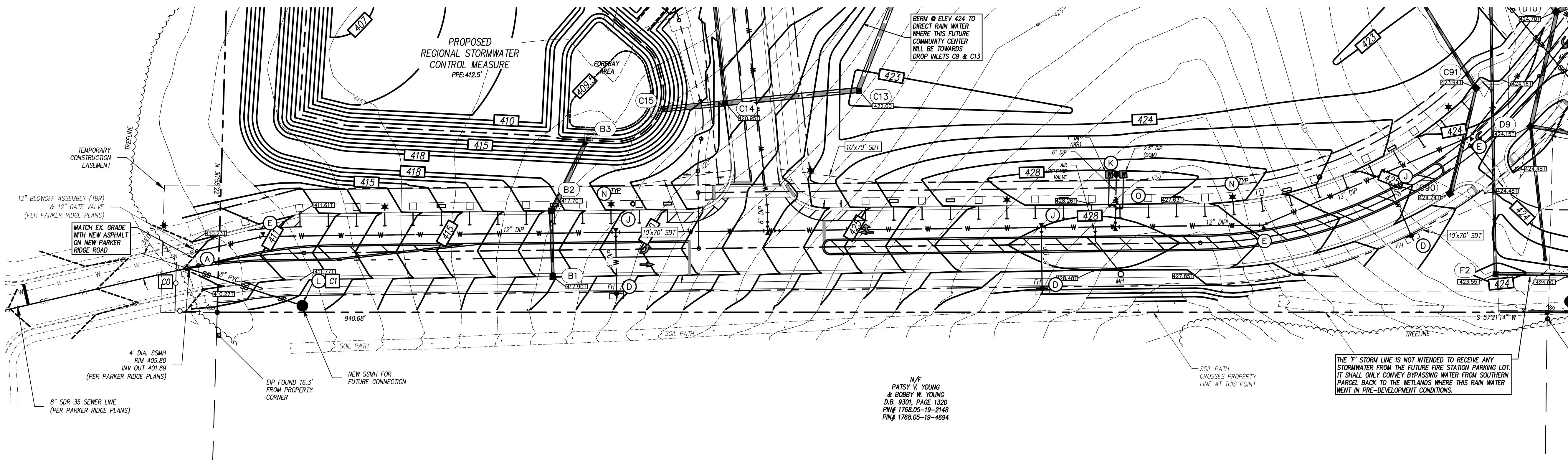
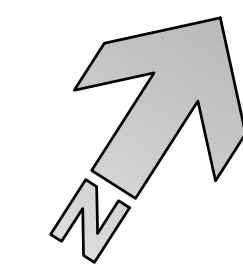
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

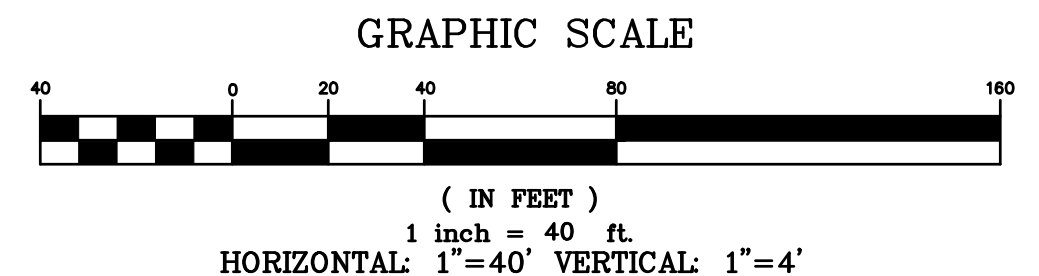
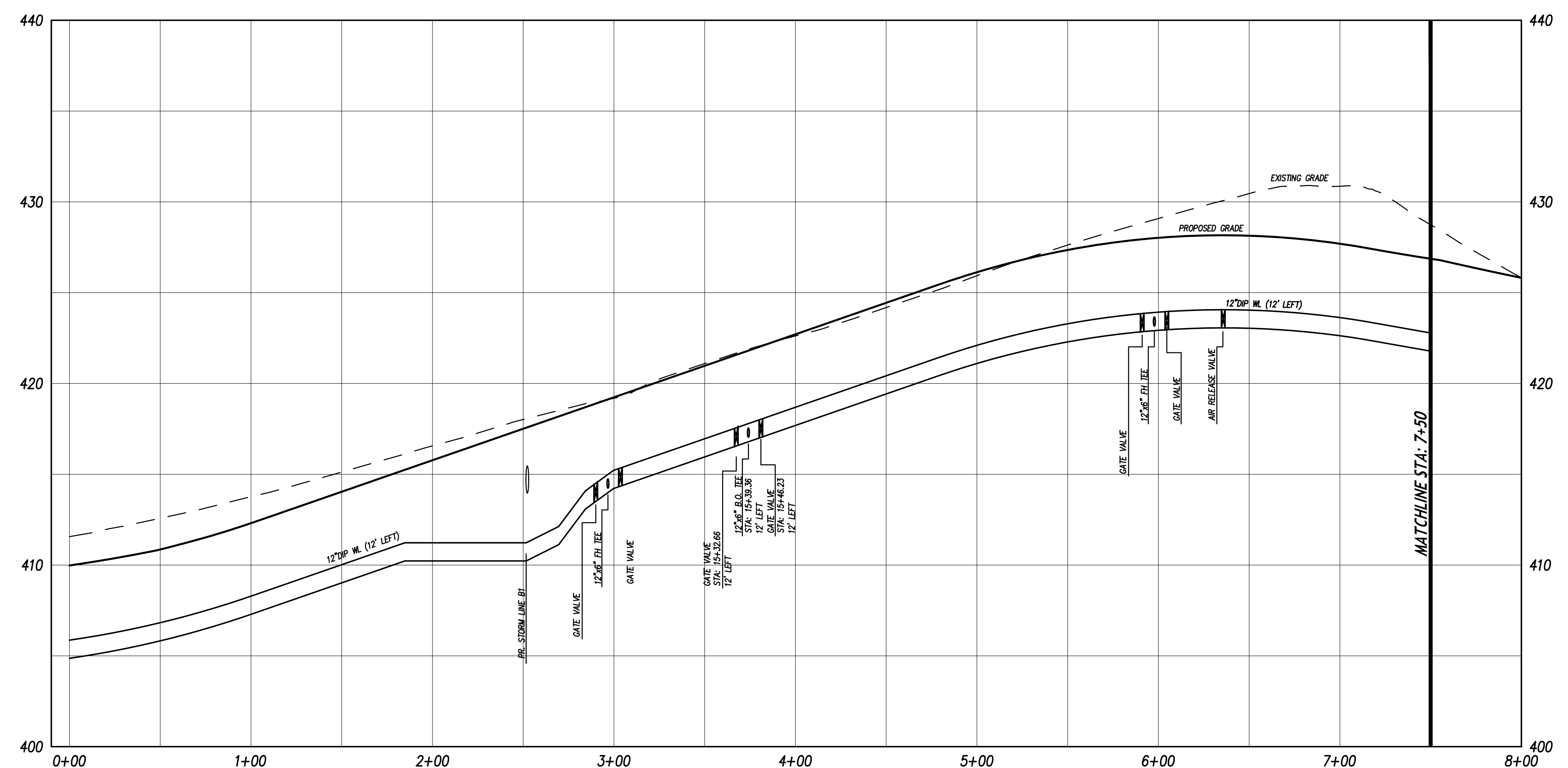
UTILITY PLAN
AREA B

C-5.02



N/F
 PATSY V. YOUNG
 & BOBBY W. YOUNG
 D.B. 3301, PAGE 1320
 PIN# 1768.05-19-2148
 PIN# 1768.05-19-4694

THE "1" STORM LINE IS NOT INTENDED TO RECEIVE ANY STORMWATER FROM THE FUTURE FIRE STATION PARKING LOT. IT SHALL ONLY CONVEY BYPASSING WATER FROM SOUTHERN PARCEL BACK TO THE WETLANDS WHERE THIS RAIN WATER WENT IN PRE-DEVELOPMENT CONDITIONS.



CITY OF RALEIGH
 PUBLIC UTILITIES DEPARTMENT PERMIT #

CLH design, p.a.
 400 Regency Forest Dr.
 Suite 120
 Cary, NC 27518
 Phone: 919.319.6716
 LA: C-106, PE: C-1595

PRELIMINARY PLANS
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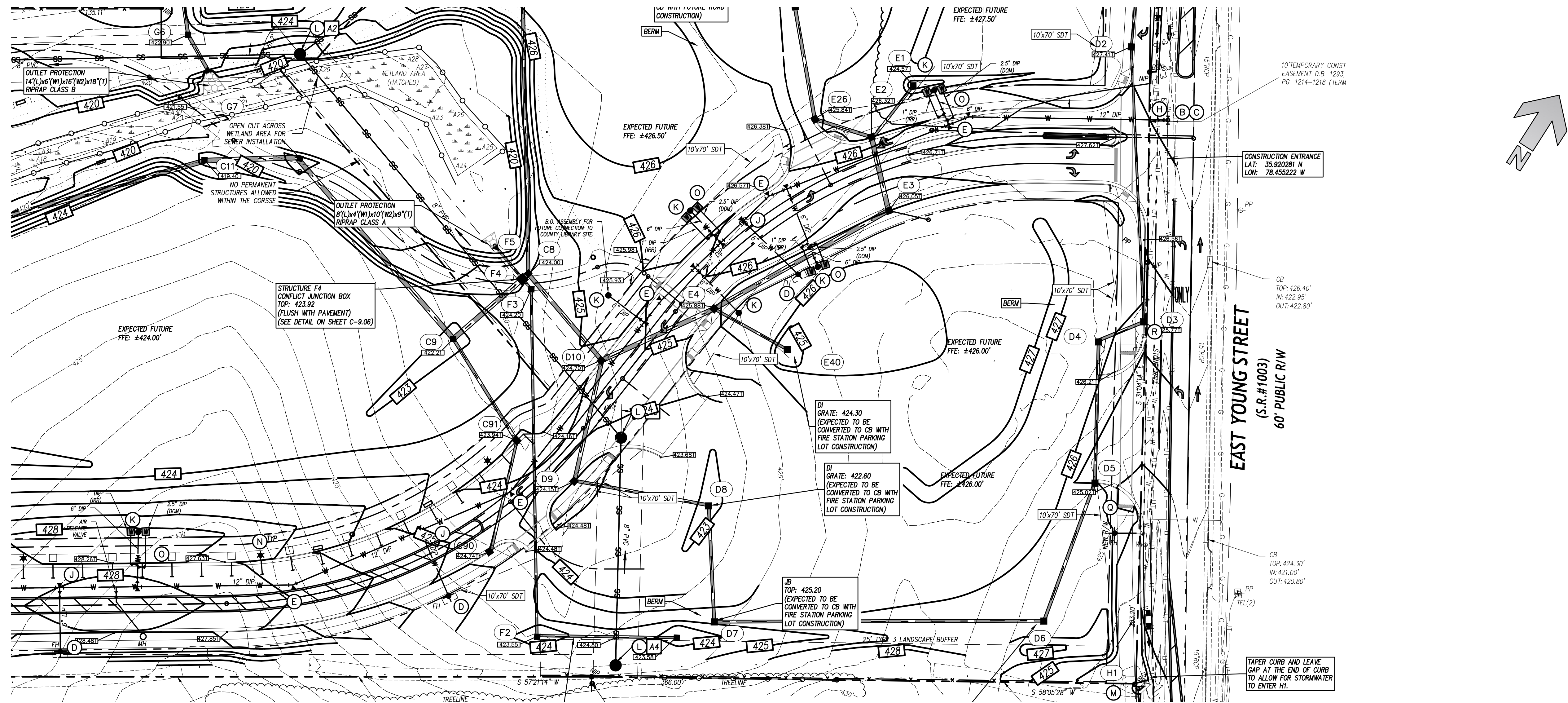
**Rolesville Town Campus
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 408 EAST YOUNG STREET, ROLESVILLE, NC
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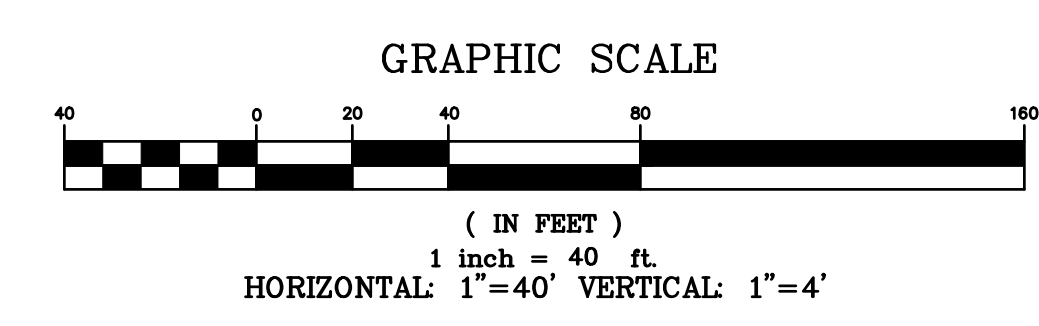
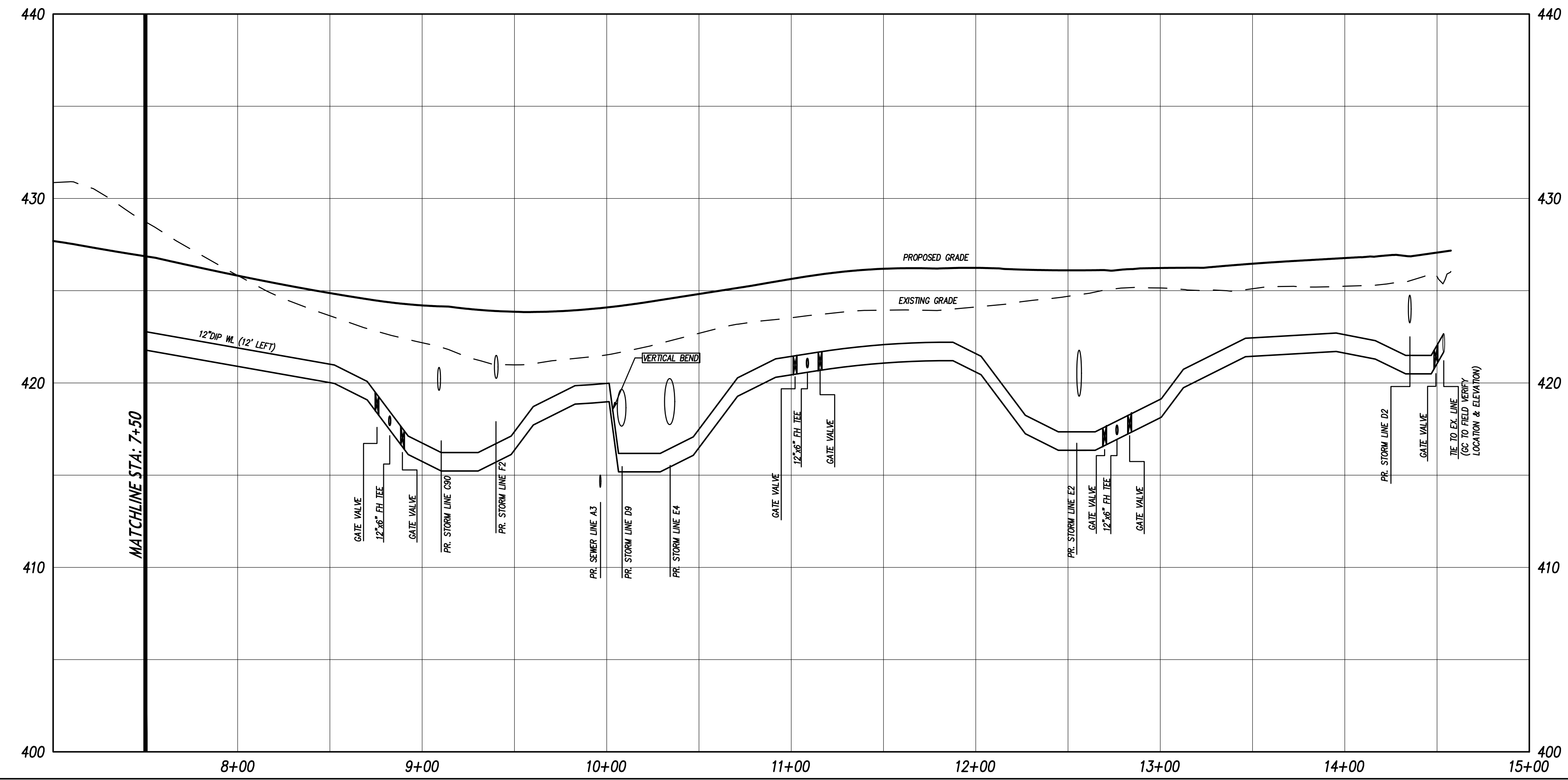
**WATER MAIN
 PLAN & PROFILE
 LINE A**

C-5.10



CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA, C-106, PE: C-1595

PRELIMINARY PLANS
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PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION
OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE
MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT
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CITY OF RALEIGH
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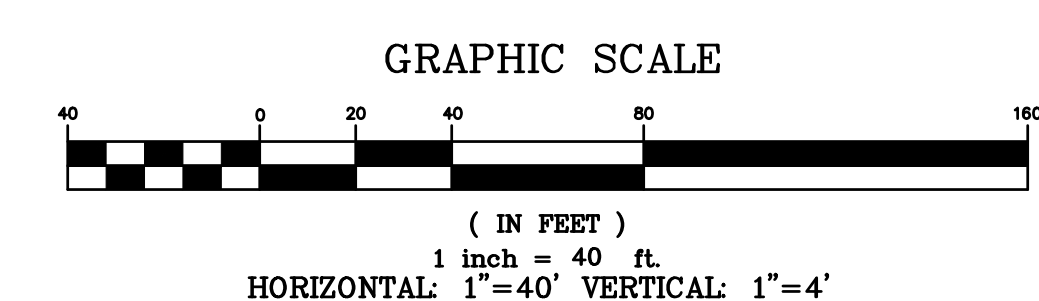
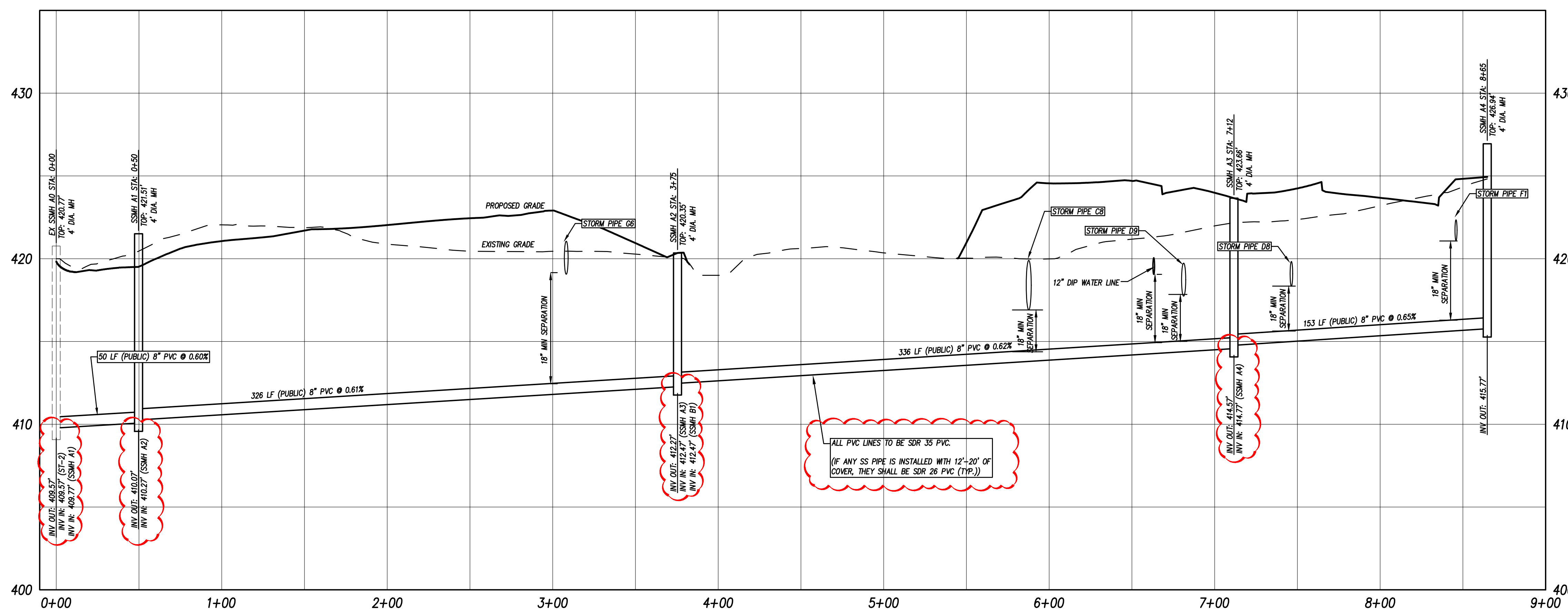
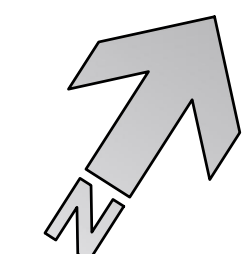
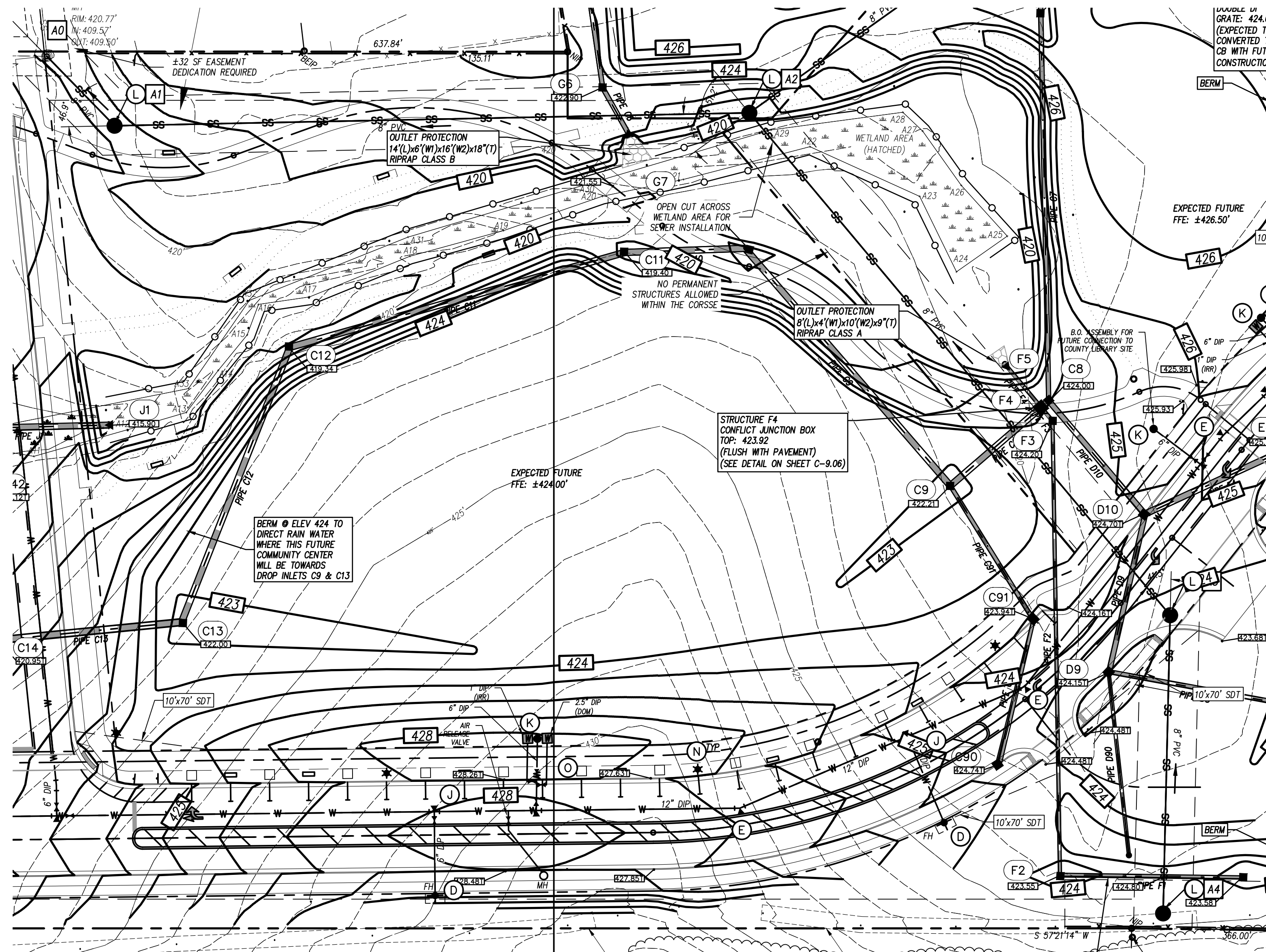
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408 EAST YOUNG STREET, ROLESVILLE, NC
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**WATER MAIN
PLAN & PROFILE
LINE A**

C-5.11



PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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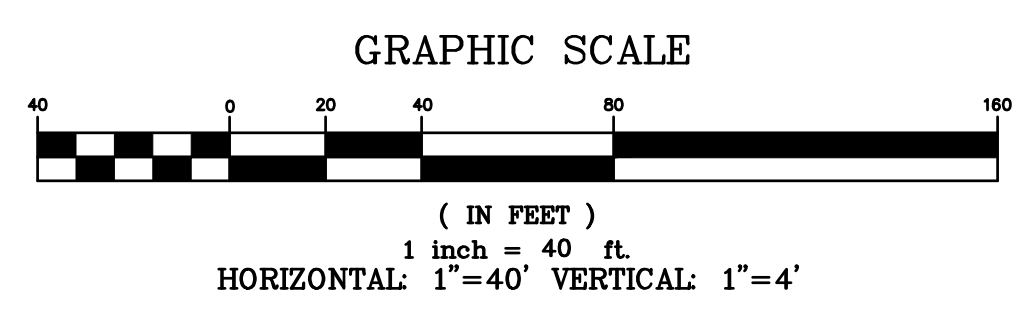
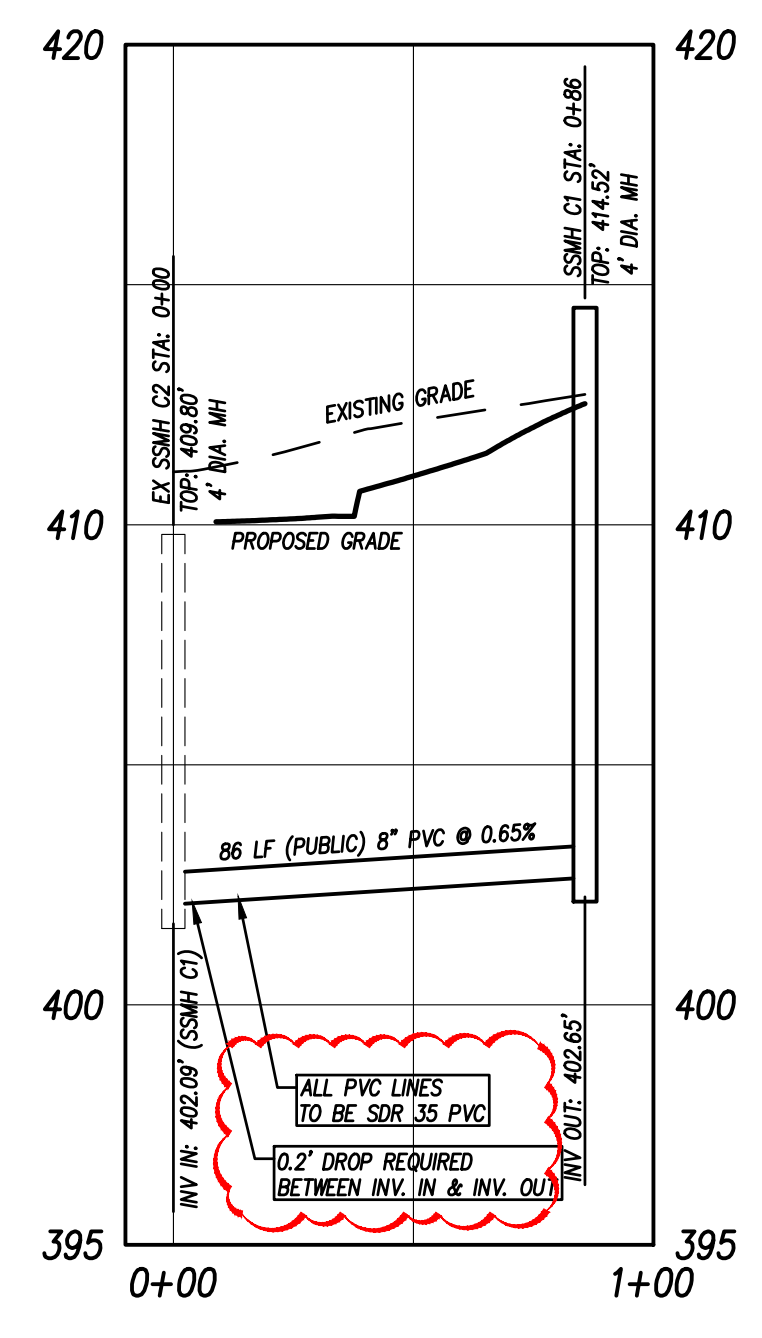
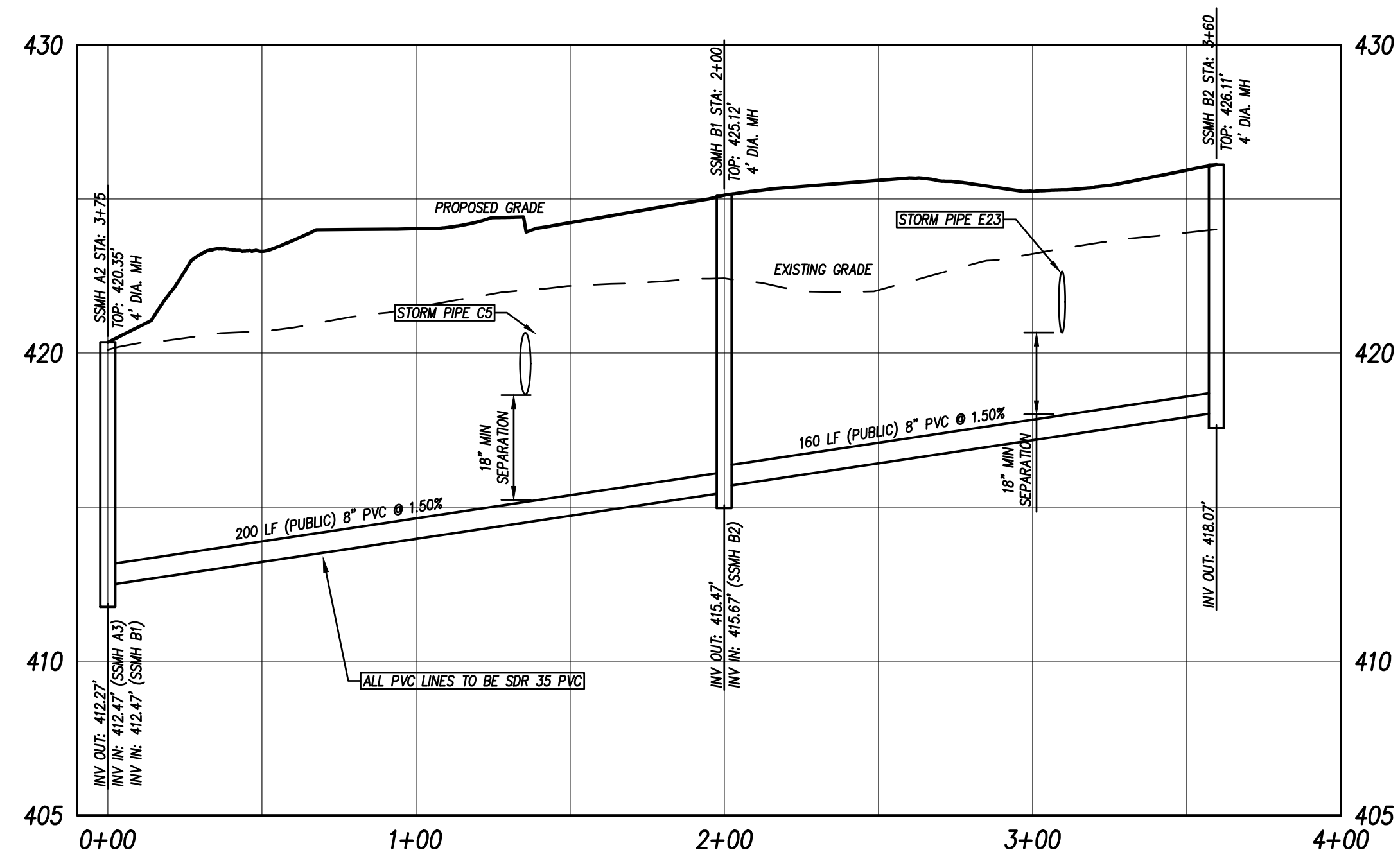
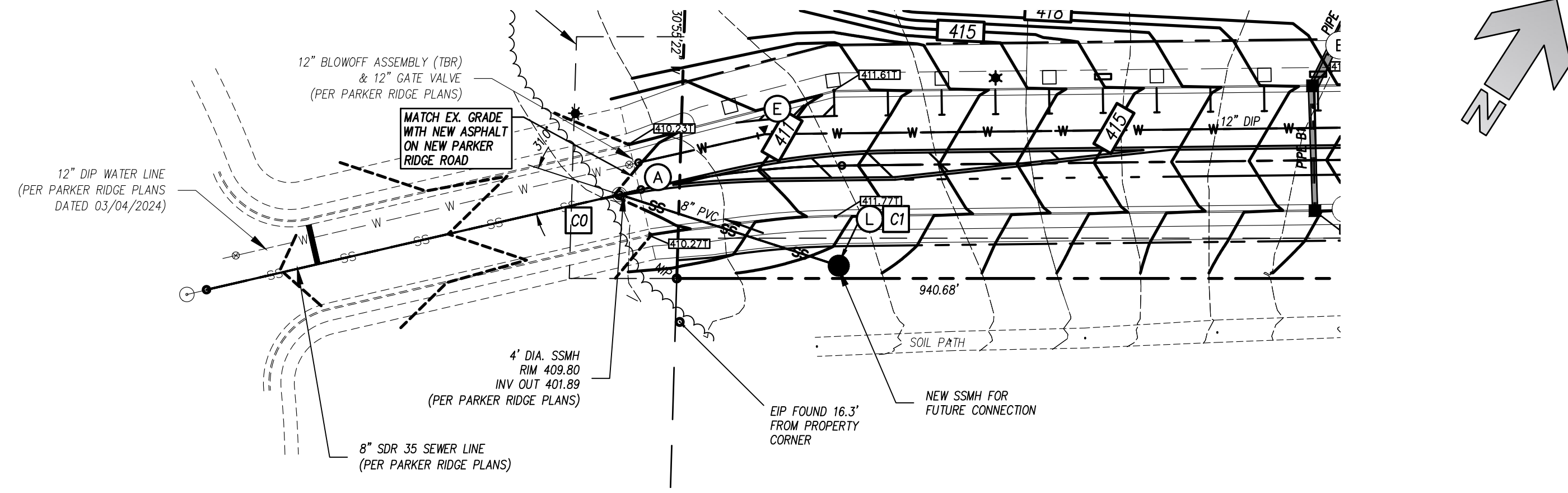
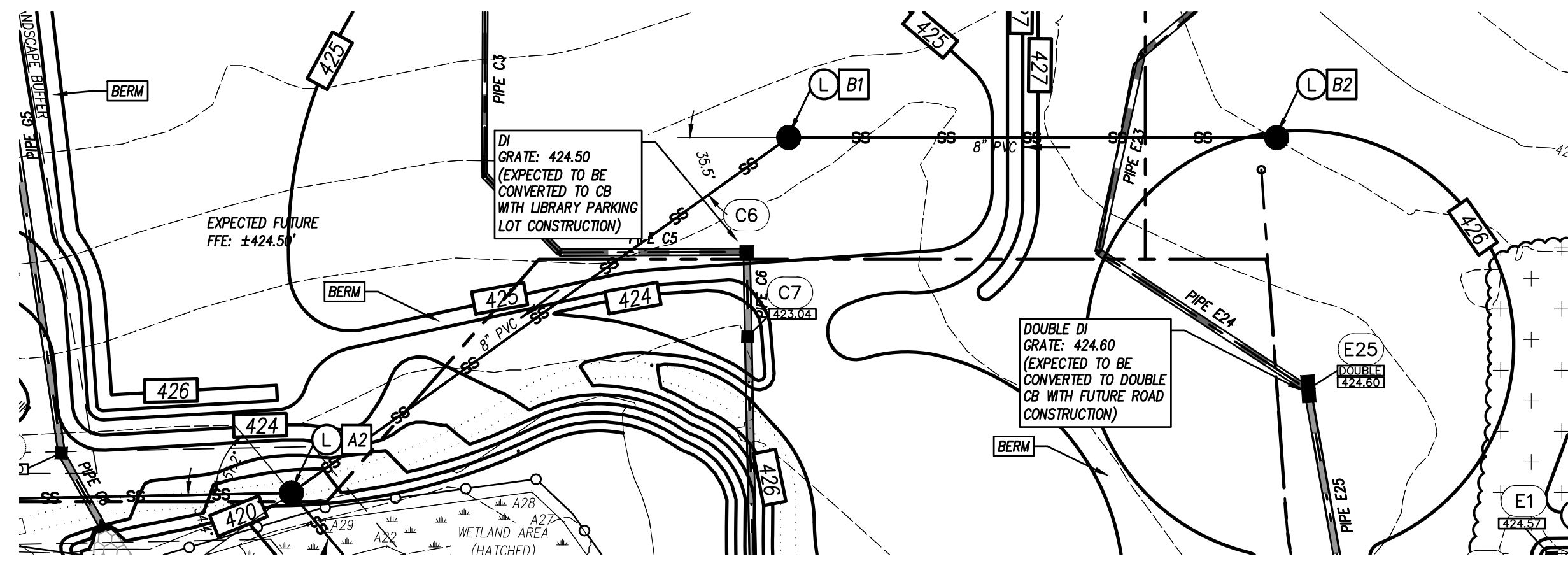
**Rolesville Town Campus
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PROJECT NO: 22-205

**SANITARY SEWER
PLAN & PROFILE
LINE A**

C-5.20



CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY PLANS
FOR REVIEW ONLY

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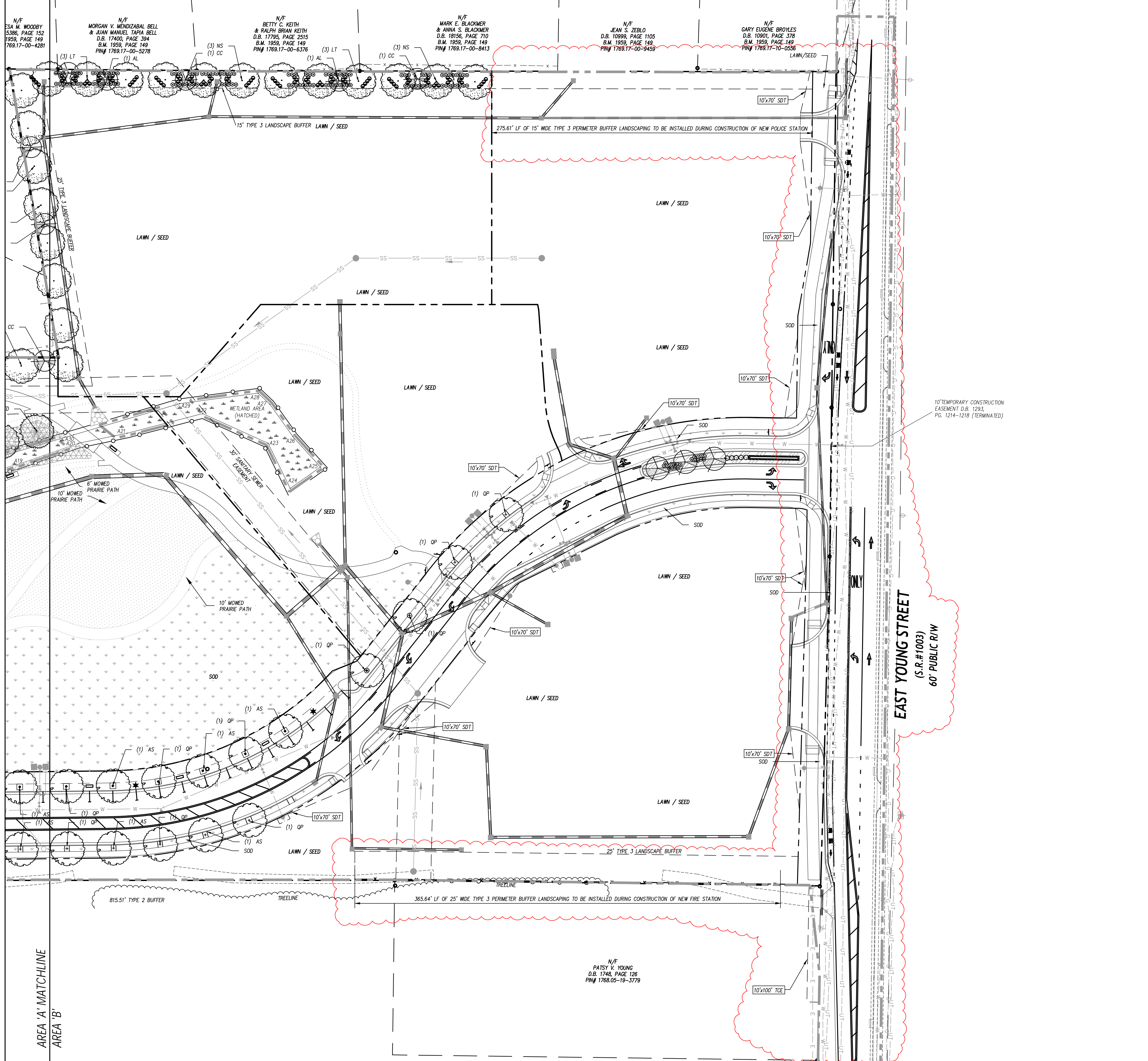
REVISIONS NO.	DATE	DESCRIPTION

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SANITARY SEWER
PLAN & PROFILE
LINES B&C

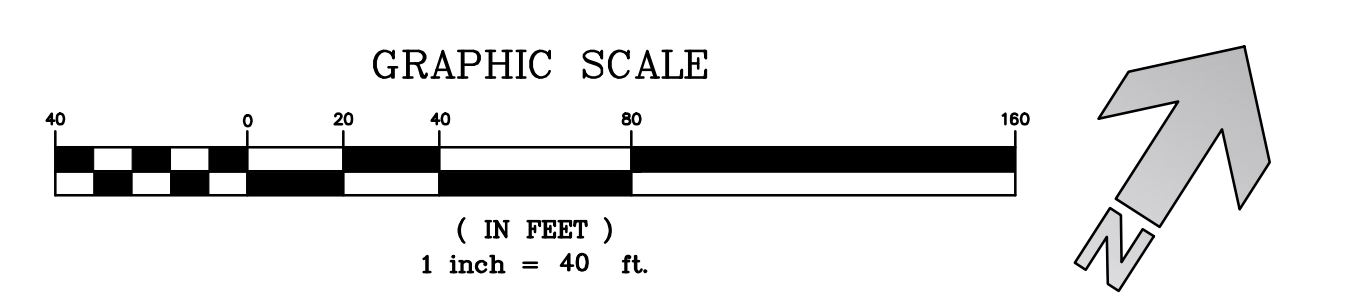
C-5.21

PUBLIC
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CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT #



PLANT SCHEDULE

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS																	
CANOPY TREES																					
*BUFFER 3 CANOPY TREE PER EVER 100' LF																					
AS	23	SUGAR MAPLE <i>Acer saccharum</i>	2" CAL. MIN. 8' HT. MIN.	STRAIGHT TRUNK FULL TO GROUND																	
LT	22	TULIP TREE <i>Liriodendron tulipifera</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
MC	-	SOUTHERN MAGNOLIA <i>Magnolia grandiflora</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
NS	24	NYSSA SYLVATICA	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
PP	9	LONGLEAF PINE <i>Pinus palustris</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
PV	3	VIRGINIA PINE <i>Pinus virginiana</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
PO	6	AMERICAN PLANE TREE <i>Platanus occidentalis</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
QA	-	WHITE OAK <i>Quercus alba</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
OB	4	SWAMP WHITE OAK <i>Quercus bicolor</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
OP	24	WILLOW OAK <i>Quercus phellos</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
TD	-	BALD CYPRESS <i>Taxodium distichum</i>	2" CAL. MIN. 8' HT. MIN.	B&B, STRAIGHT TRUNK FULL CROWN																	
UNDERSTORY TREES																					
*BUFFER 1 UNDERSTORY TREE PER EVER 100' LF																					
AL	8	ALLEGHANY SERVICEBERRY <i>Amelanchier laevis</i>	1" CAL. MIN. 6' HT. MIN.	STRAIGHT TRUNK FULL TO GROUND																	
CC	8	HEARTS OF GOLD REDBUD <i>Cercis canadensis 'Hearts of Gold'</i>	1" CAL. MIN. 6' HT. MIN.	FULL CROWN MATCHED SPECIMENS																	
KD	-	KOLSA DOGWOOD <i>Cornus kousa</i>	1" CAL. MIN. 6' HT. MIN.	STRAIGHT TRUNK MATCHED SPECIMENS																	
MV	-	SWEETBAY MAGNOLIA <i>Magnolia virginiana</i>	1" CAL. MIN. 6' HT. MIN.	STRAIGHT TRUNK MATCHED SPECIMENS																	
DECIDUOUS / EVERGREEN SHRUBS																					
*BUFFER SHRUB 50 SHRUBS PER EVER 100' LF																					
CA	160	AMERICAN PURPLE BEAUTYBERRY <i>Callicarpa americana</i>	24' HT.																		
IV	160	WINTERBERRY <i>Ilex verticillata 'Southern Gentleman'</i>	24' HT.																		
MC	160	SOUTHERN WAX MYRTLE <i>Myrica cerifera</i>	24' HT.																		
WV	160	WINTERHUR VIBURNUM <i>Viburnum nudum 'Winterhur'</i>	18' HT.																		
YF	160	EXCALIBUR ADAM'S NEEDLE <i>Yucca filamentosa 'Excalibur'</i>	18' HT.																		
PERENNIALS / GROUNDCOVERS																					
AT	-	BUTTERFLY WEED <i>Asclepias tuberosa</i>	18" HT.																		
BA	-	GOLDFINCH FALSE INDIGO <i>Baptisia americana 'Goldfinch'</i>	18" HT.																		
CV	-	ZAGREB COREOPSIS <i>Coreopsis verticillata 'Zagreb'</i>	8" HT.																		
EP	-	PIE WEEED <i>Eupatorium purpureum 'Baby Joe'</i>	18" HT.																		
ES	-	SOMBRERO CONEFLOWER <i>Echinacea sombrero 'Lemon Yellow'</i>	18" HT.																		
RF	-	BLACK-EYED SUSAN <i>Rudbeckia fulgida 'Vette's Little Suzy'</i>	18" HT.																		
<table border="1"> <tr> <td>3 CANOPY TREE PER 100' LF</td> <td>54 TOTAL</td> </tr> <tr> <td>1 UNDERSTORY TREE PER 100' LF</td> <td>18 TOTAL</td> </tr> <tr> <td>50 SHRUBS PER 100' LF</td> <td>903 TOTAL</td> </tr> </table>					3 CANOPY TREE PER 100' LF	54 TOTAL	1 UNDERSTORY TREE PER 100' LF	18 TOTAL	50 SHRUBS PER 100' LF	903 TOTAL											
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408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

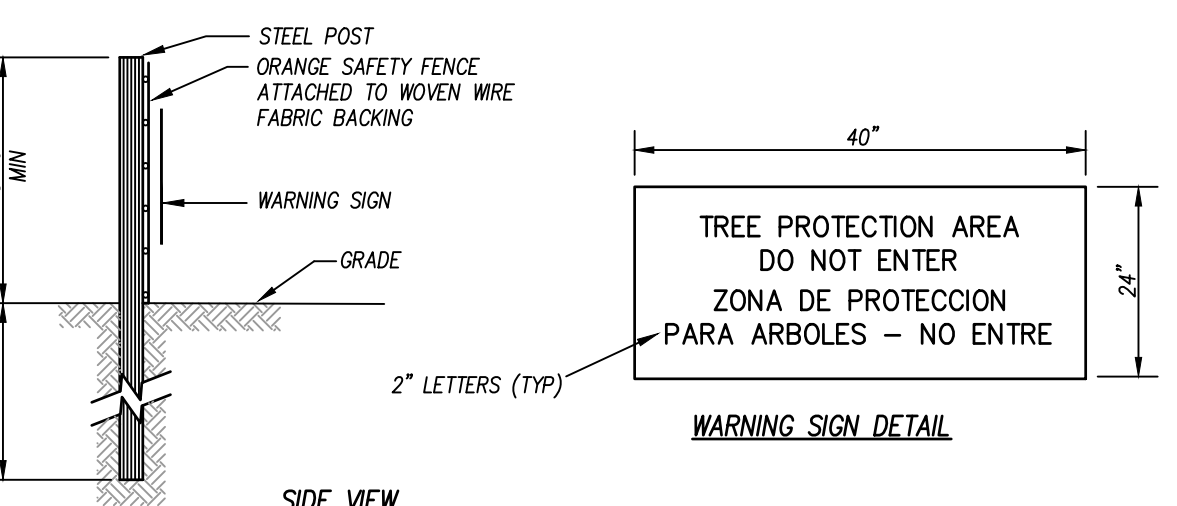
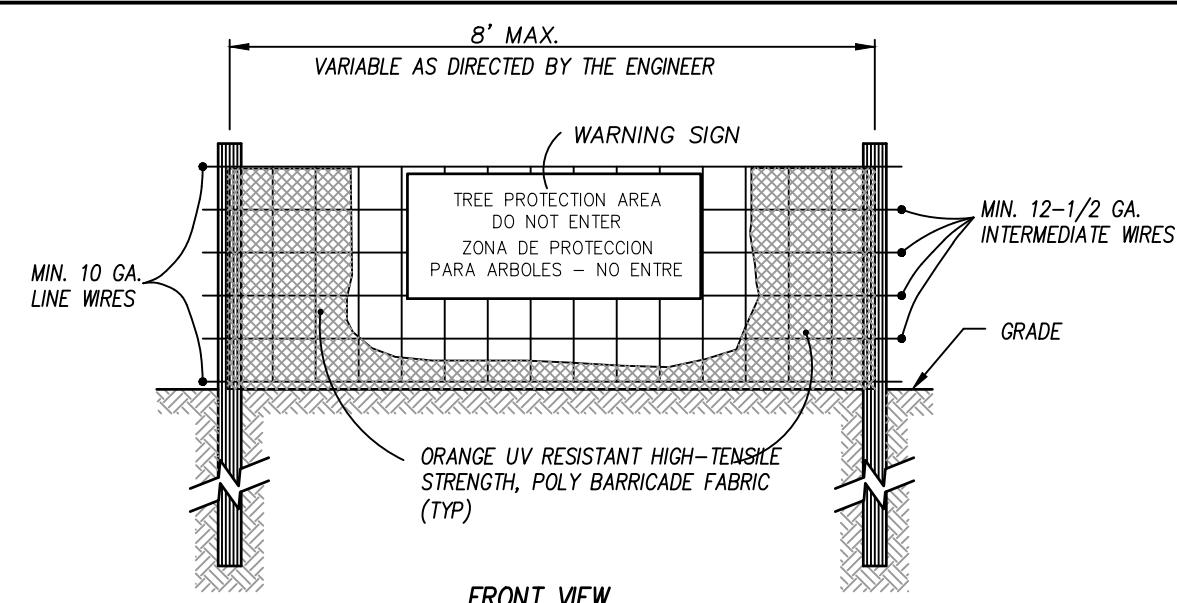
NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

LANDSCAPE PLAN
AREA B
C-6.02

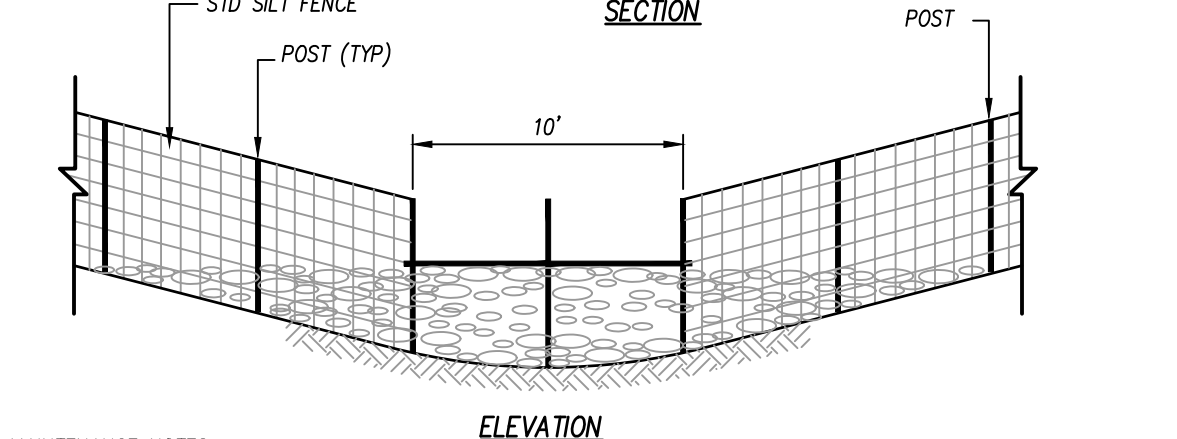
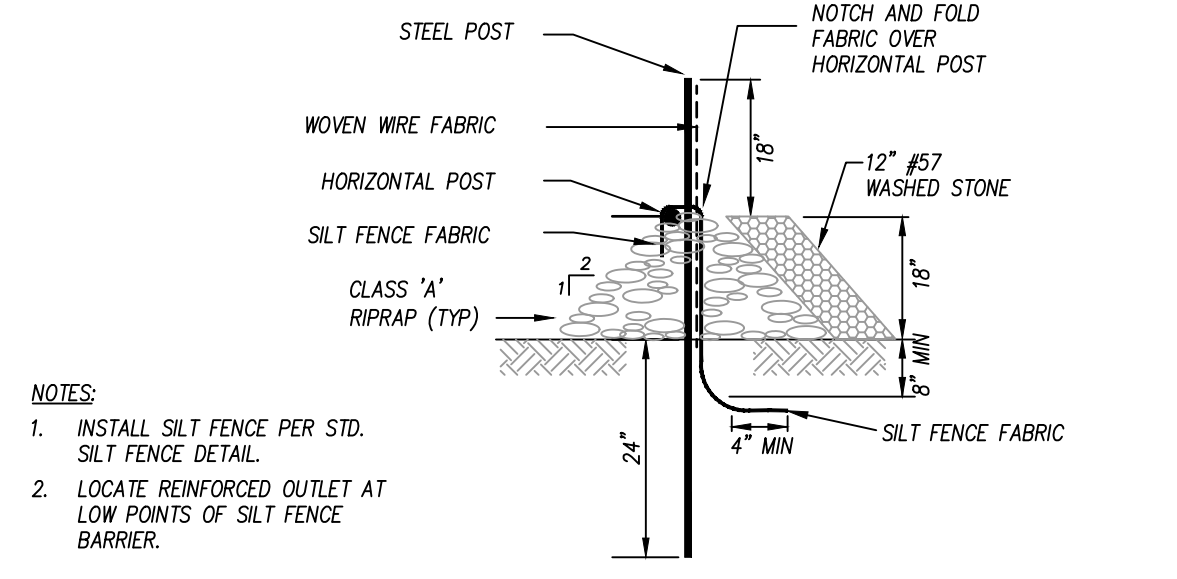
AREA 'A' MATCHLINE
AREA 'B'

N/F
PATSY W. YOUNG
D.B. 1748, PAGE 126
PIN# 1768.05-19-3779



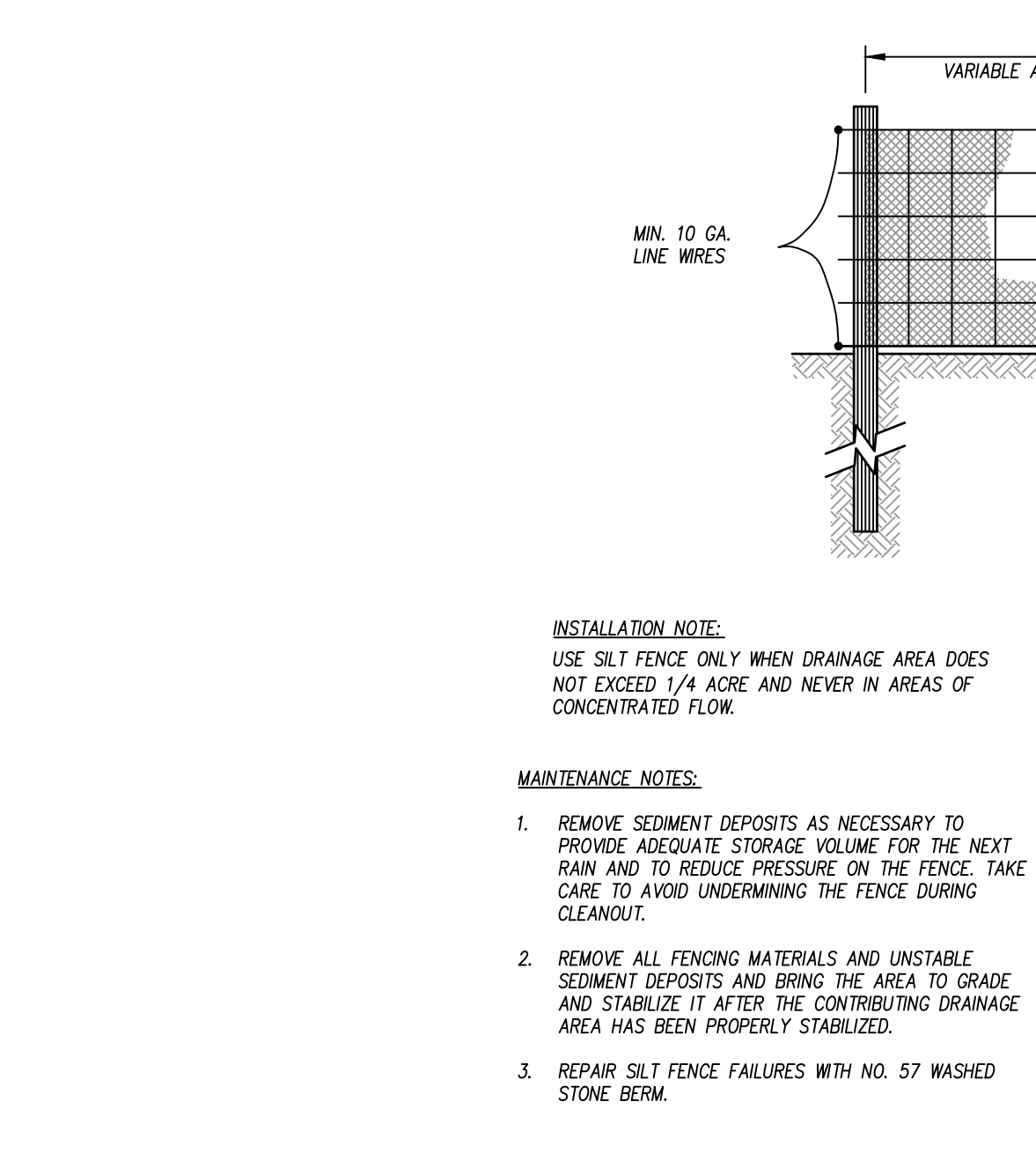
- NOTES:**
- INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
 - WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 - LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 - SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
 - FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 - ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 - MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

TEMPORARY TREE PROTECTION FENCE N.T.S.



- MAINTENANCE NOTES:**
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
 - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

REINFORCED SILT FENCE OUTLET N.T.S.



STANDARD TEMPORARY SILT FENCE N.T.S.

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

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 -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 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
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<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 off-site.
 - 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.

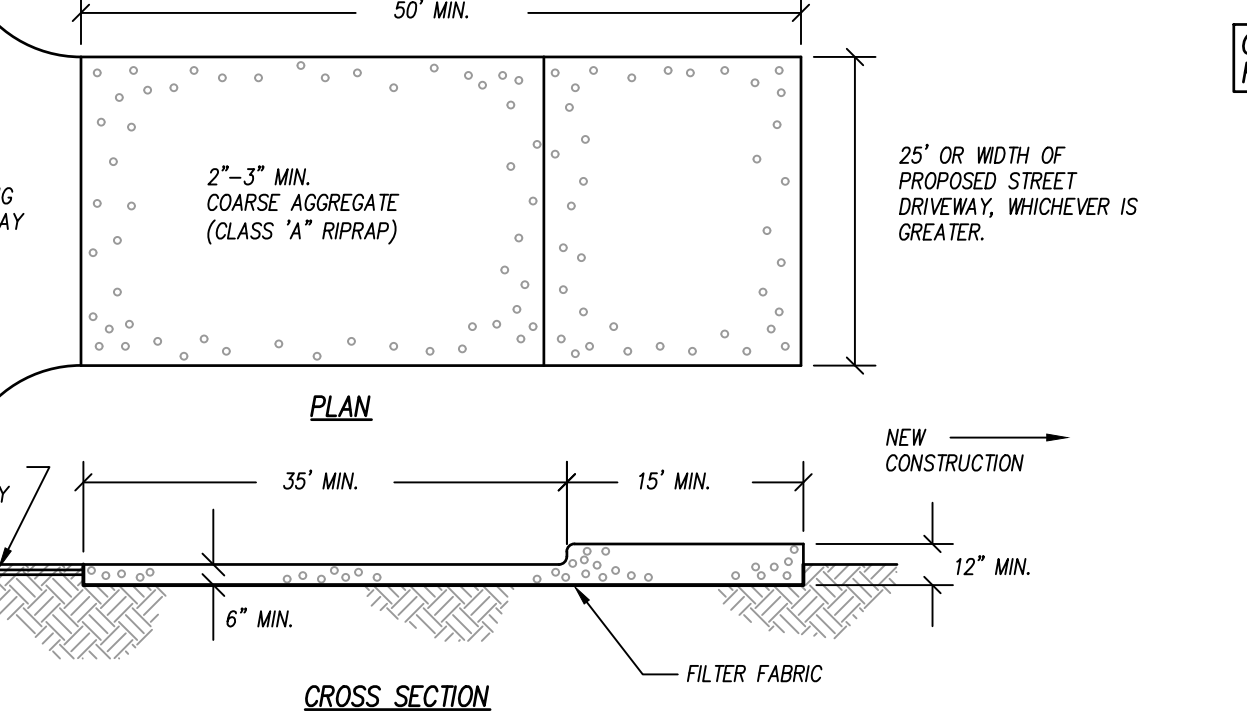
- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 - Protect 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.



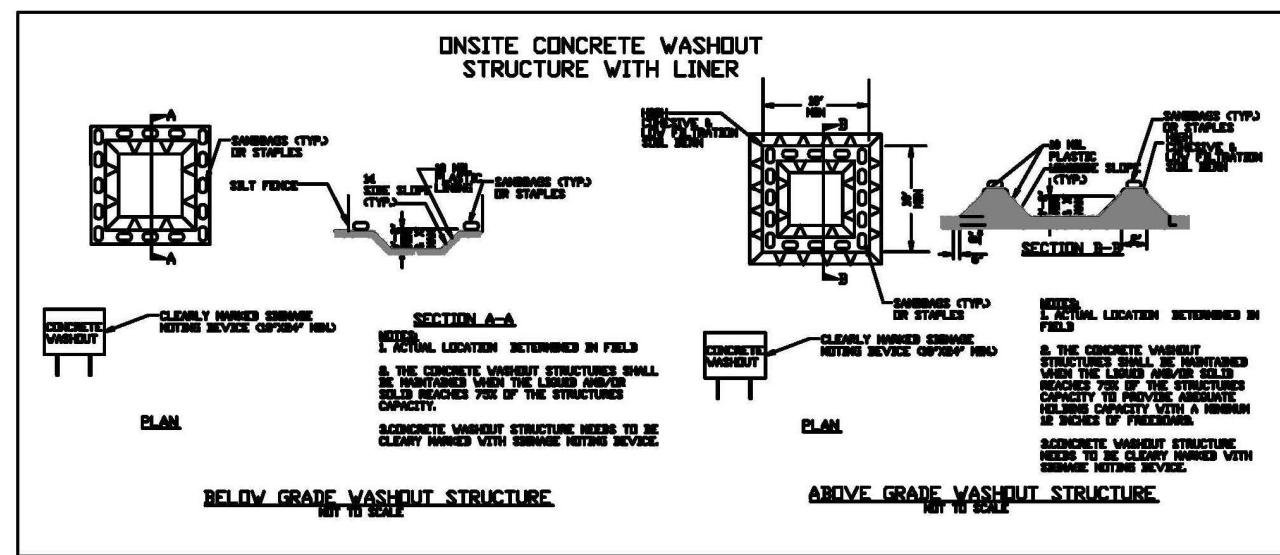
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

STANDARD NCDEQ NOTES



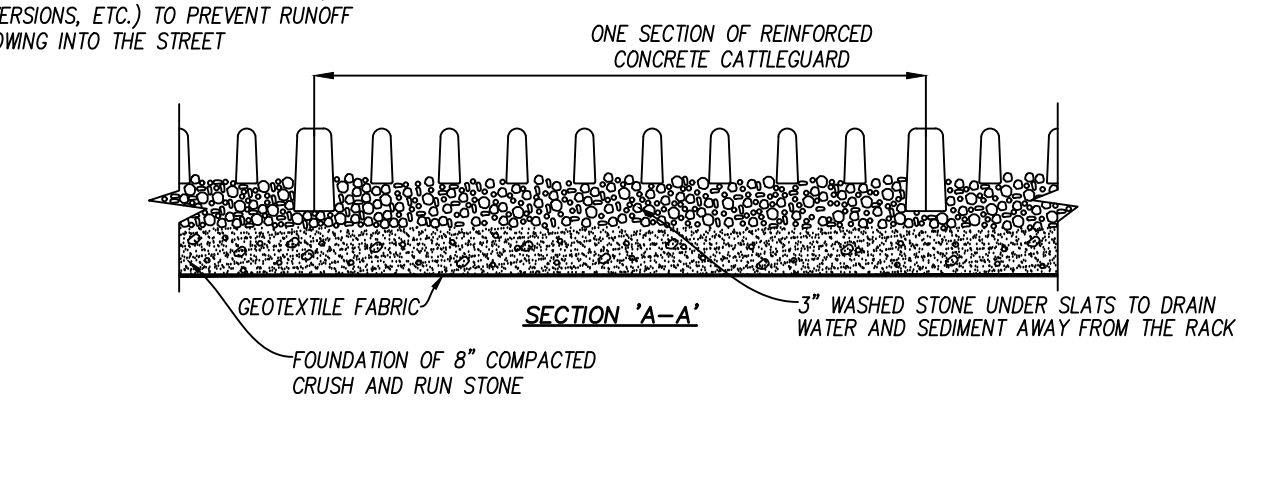
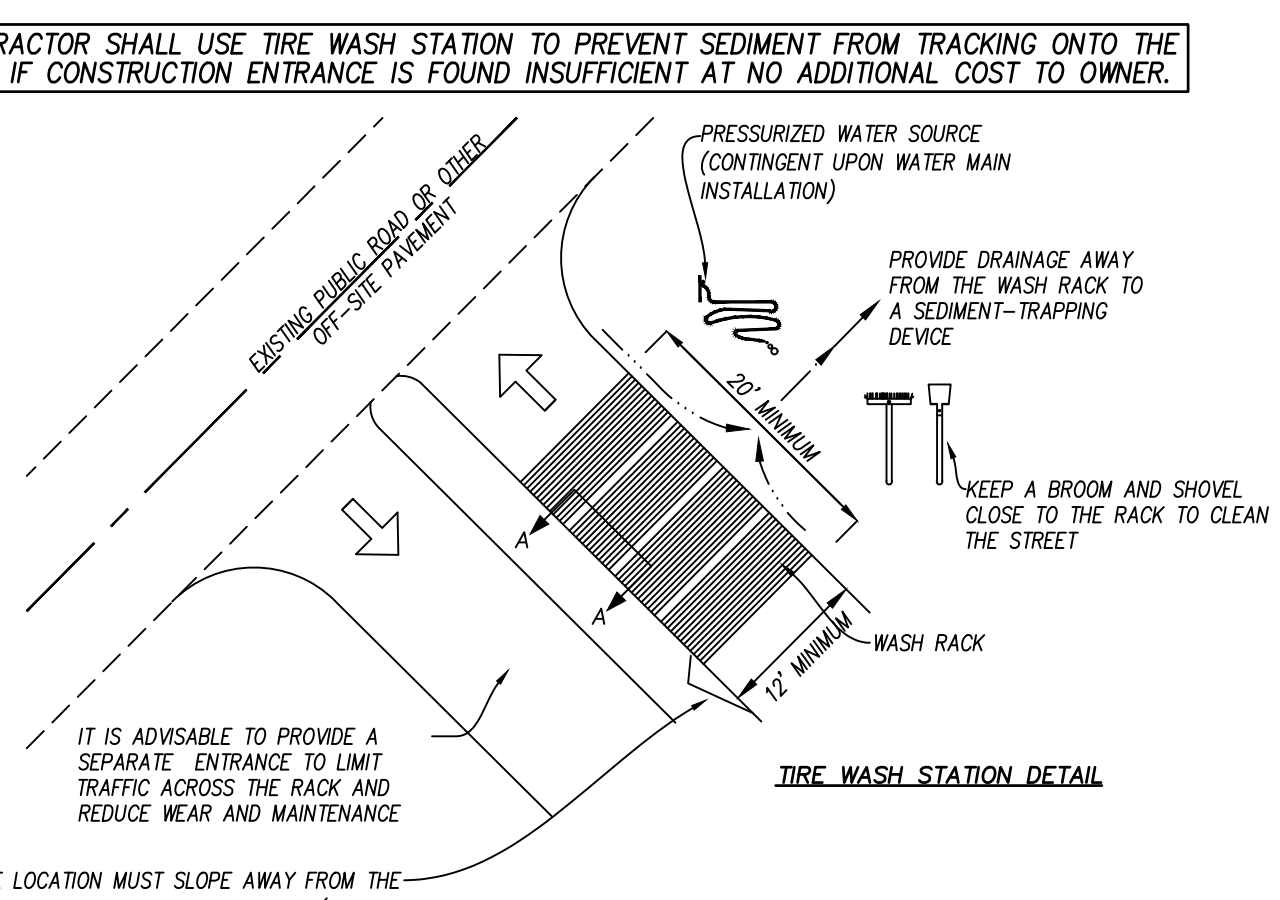
- NOTES:**
- ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
 - TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL BE PROVIDED.
 - ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
 - ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
 - FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
 - NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.
- MAINTENANCE NOTES:**
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE.
 - AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.
 - IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.
- CONSTRUCTION SPECIFICATIONS:**
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
 - PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
 - PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR SUITABLE OTHER OUTLET.
 - USE GEOTEXTILE FABRIC TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.



- 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.



GRAVEL CONSTRUCTION ENTRANCE N.T.S.



PRELIMINARY PLANS
FOR REVIEW ONLY

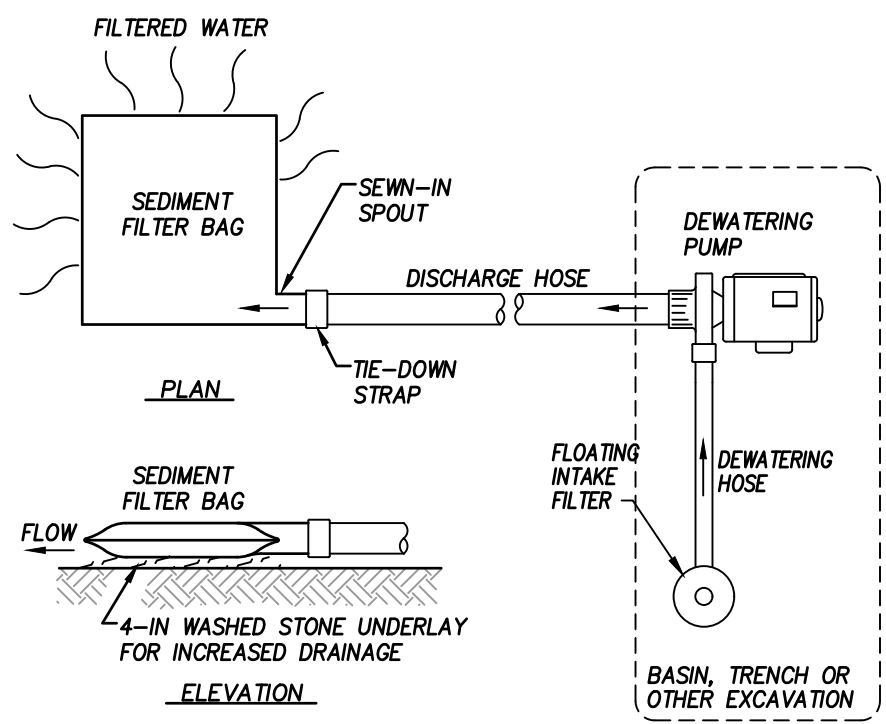
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RM
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

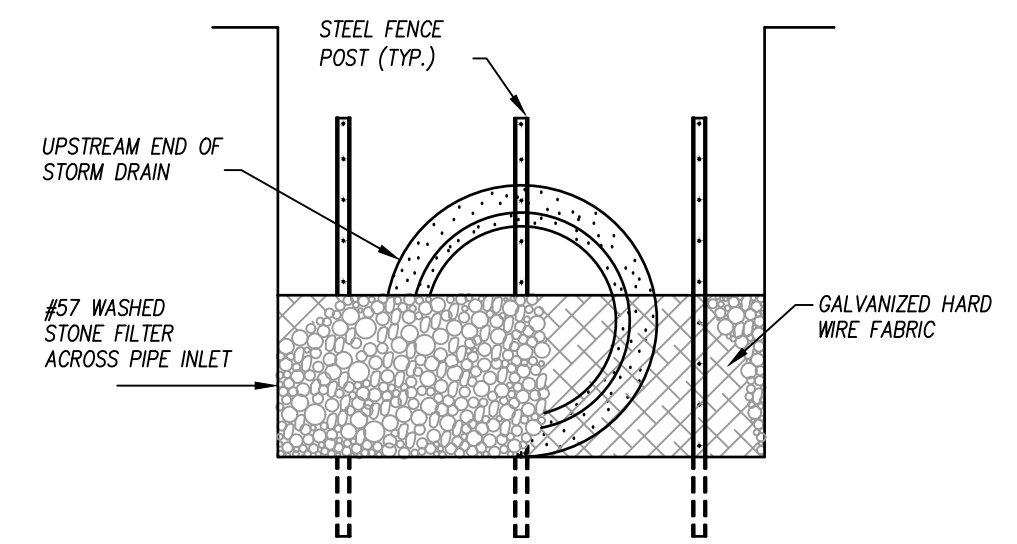
EROSION CONTROL
DETAILS

C-7.01



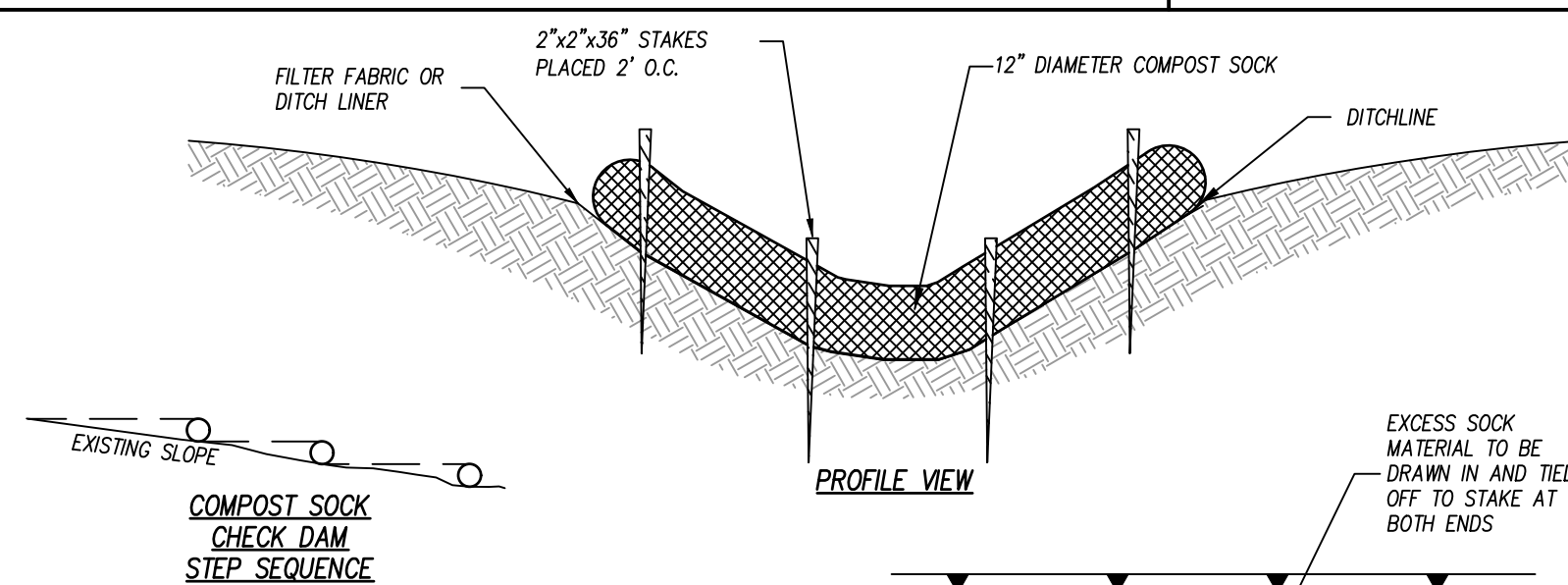
- CONSTRUCTION NOTES:**
- SILT BAG SHALL BE A PERMEABLE, POLYPROPYLENE, NON-WOVEN GEOTEXTILE (WITH AN 80 SIEVE ASS) SEWN INTO A BAG AND MANUFACTURED TO ACCEPT AND FILTER PUMPED, SEDIMENT-LADEN WATER FROM DEWATERING ACTIVITIES.
 - SILT BAG SHALL BE SIZED BY THE MANUFACTURER AS APPROPRIATE FOR THE DEWATERING PUMP DISCHARGE RATE AND SHALL BE FITTED WITH A FALL SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE PIPING OF THE DEWATERING PUMP.
 - DEWATERING PUMP/HOSE SHALL BE EQUIPPED WITH A FLOATING INTAKE FILTER.
 - INSTALL SILT BAG ON AN UNDISTURBED OR FULLY STABILIZED SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CAUSING EROSION.
- MAINTENANCE NOTES:**
- MONITOR BAG DURING PUMPING OPERATIONS. ENSURE PUMP RATE DOES NOT EXCEED.
 - REMOVE AND REPLACE SILT BAG WHEN DEVICE NO LONGER DRAINS EFFICIENTLY DUE TO ACCUMULATED SEDIMENT IN BAG.
 - EMPTY BAG WITHIN DISTURBED LIMITS OF THE SITE PROTECTED BY OTHER SEDIMENT CONTROL MEASURES OR DISPOSE OF OFF-SITE AT AN APPROPRIATELY PERMITTED LOCATION.

DEWATERING SEDIMENT FILTER BAG N.T.S.



- MAINTENANCE NOTES:**
- ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM REGRADED AND COMPACTED IN ACCORDANCE W/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.

PROTECTION OF STORM DRAIN UNDER CONSTRUCTION N.T.S.



- NOTES:**
- MATERIALS TO BE FILTERX OR APPROVED EQUAL.
 - ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
 - COMPOST SOCK MAY BE USED AS CHECK DAMS IN DITCHES NOT EXCEEDING 3 FEET IN DEPTH.
 - PRIOR TO SOCK INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLDS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION.
 - 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 2 FEET. STAKES SHALL BE PLACED AT A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
 - THE ENDS OF THE SOCKS SHOULD BE TURNED SLOWLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
 - CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
 - CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.

- MAINTENANCE NOTES:**
- INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
 - SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
 - THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
 - IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
 - THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOADED.
 - THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK CHECK DAM N.T.S.

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend 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 whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date 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 onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or 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 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.

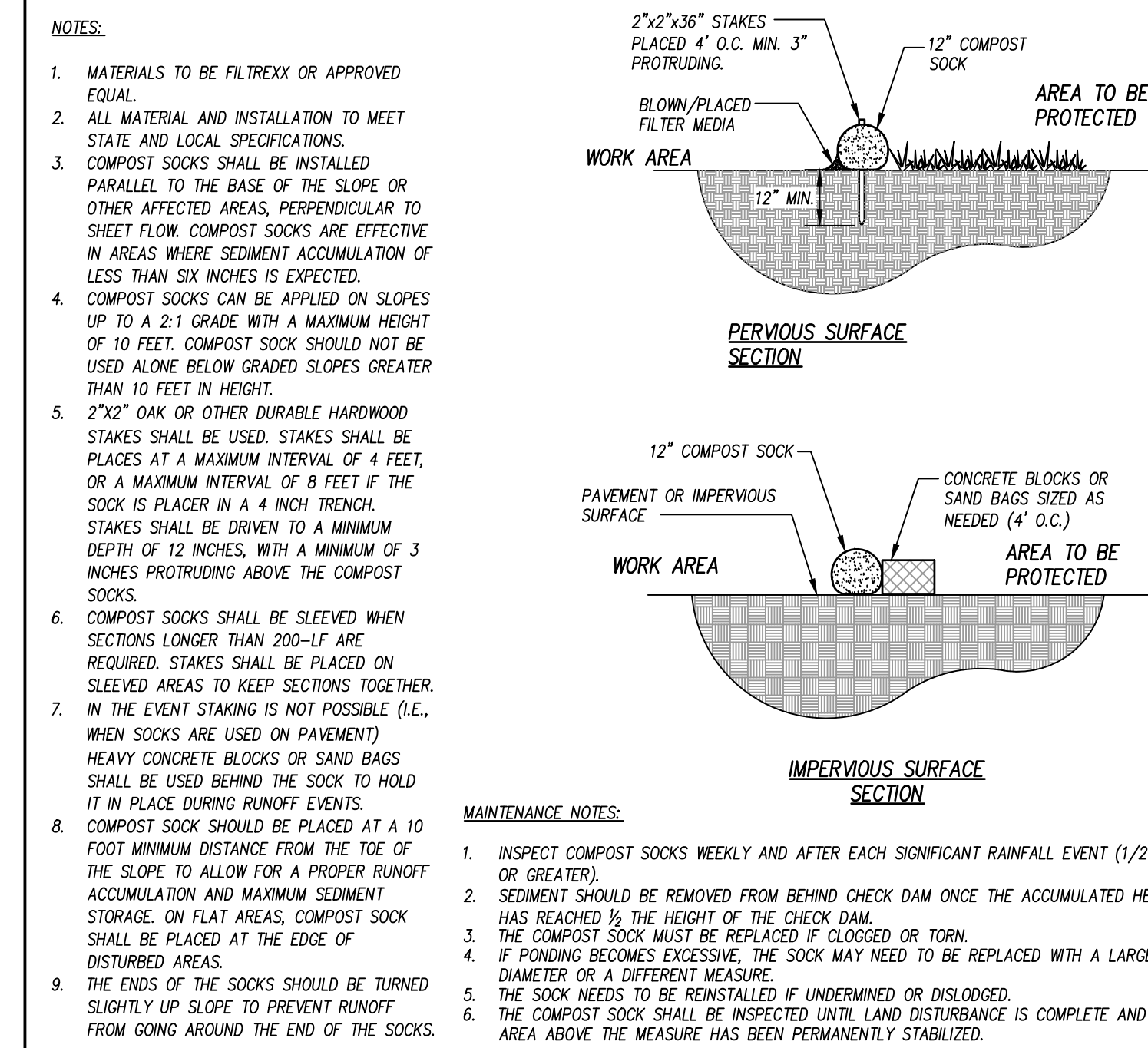
NOTE: The rain inspection resets the required 7 calendar day inspection requirement.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

STANDARD NCDEQ NOTES



- NOTES:**
- MATERIALS TO BE FILTERX OR APPROVED EQUAL.
 - ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
 - COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREAS, PERPENDICULAR TO SHEET FLOW. COMPOST SOCKS ARE EFFECTIVE IN AREAS WHERE SEDIMENT ACCUMULATION OF LESS THAN SIX INCHES IS EXPECTED.
 - COMPOST SOCKS CAN BE APPLIED ON SLOPES UP TO A 2:1 GRADE WITH A MAXIMUM HEIGHT OF 10 FEET. COMPOST SOCK SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10 FEET IN HEIGHT.
 - 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
 - COMPOST SOCKS SHALL BE SLEEVED WHEN SECTIONS LONGER THAN 200'-LFE ARE REQUIRED. STAKES SHALL BE PLACED ON SLEEVED AREAS TO KEEP SECTIONS TOGETHER.
 - IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
 - COMPOST SOCK SHOULD BE PLACED AT A 10 FOOT MINIMUM DISTANCE FROM THE TOE OF THE SLOPE TO ALLOW FOR A PROPER RUNOFF ACCUMULATION AND MAXIMUM SEDIMENT STORAGE ON FLAT AREAS. COMPOST SOCK SHALL BE PLACED AT THE EDGE OF DISTURBED AREAS.
 - THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
- MAINTENANCE NOTES:**
- INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
 - SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
 - THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
 - IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
 - THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOADED.
 - THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK PERIMETER FENCE N.T.S.

**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 documented in the manner described:

Item to Document	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

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency 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:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. 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.
- All data used to complete the Notice of Intent and older 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:

- Visible sediment deposition in a stream or wetland.
- 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).
- 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.
- Anticipated bypasses and unanticipated bypasses.
- 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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

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(l)(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(l)(6). Division staff may waive the requirement for a written report on a case-by-case basis.



PRELIMINARY PLANS
FOR REVIEW ONLY

Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

EROSION CONTROL
DETAILS

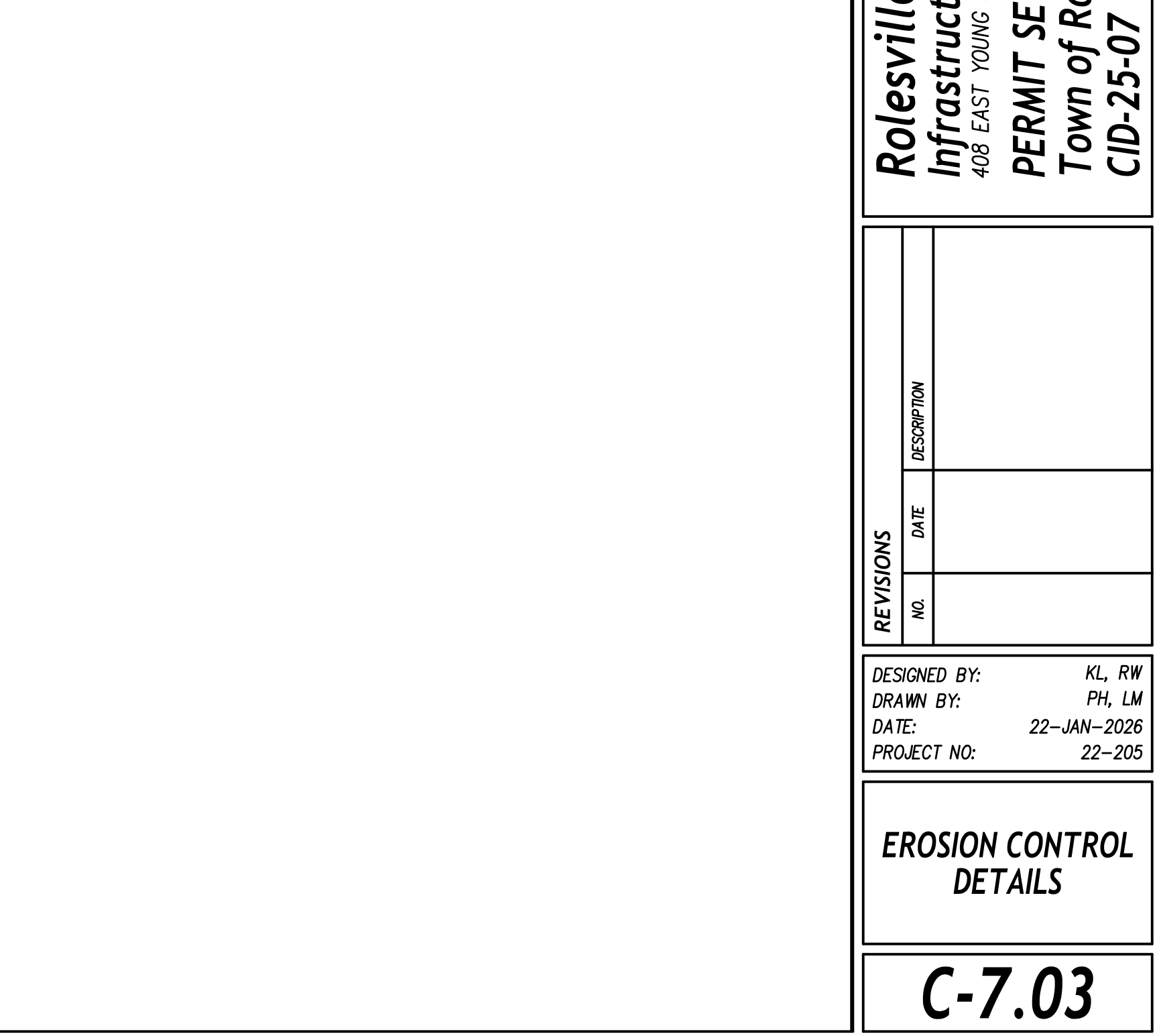
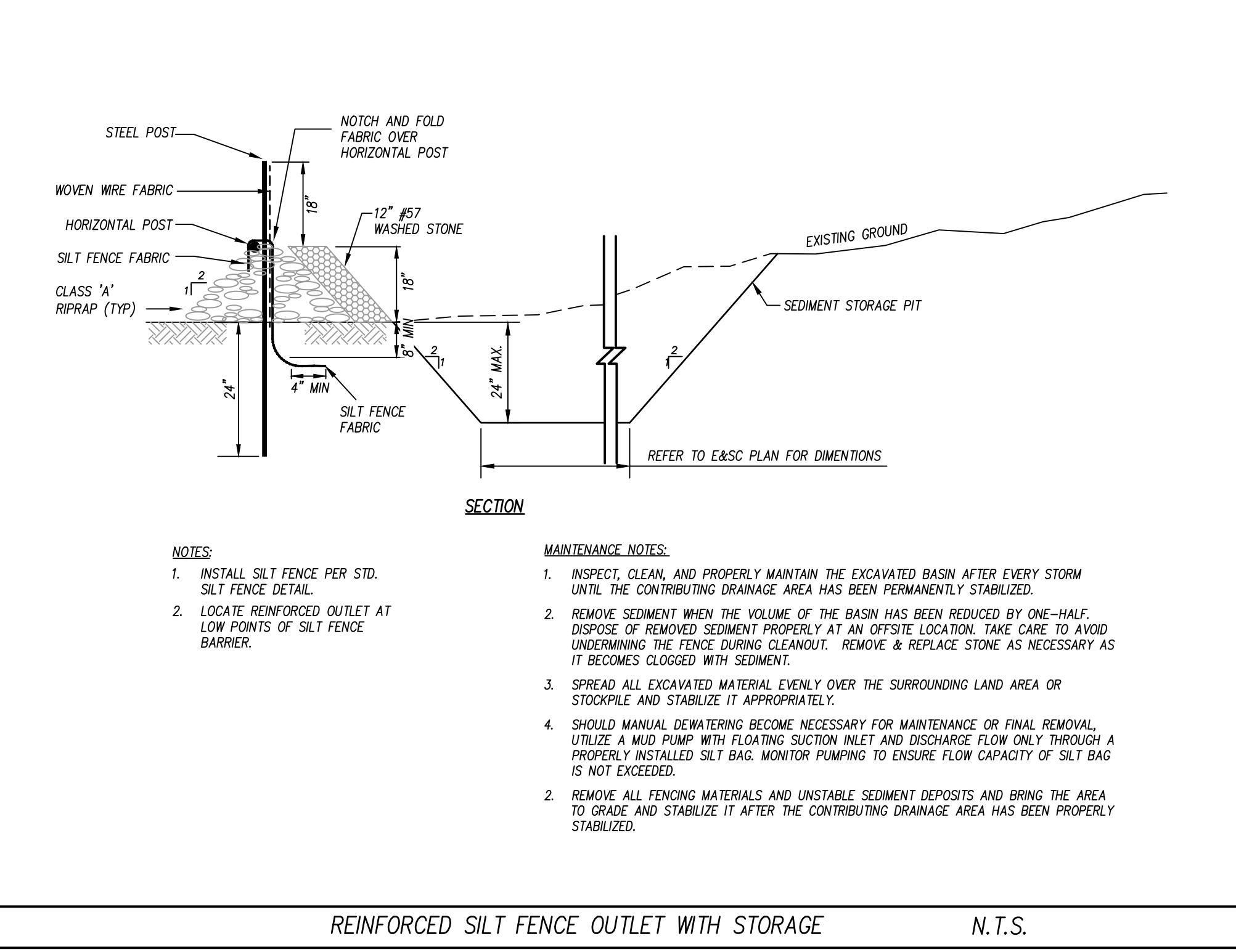
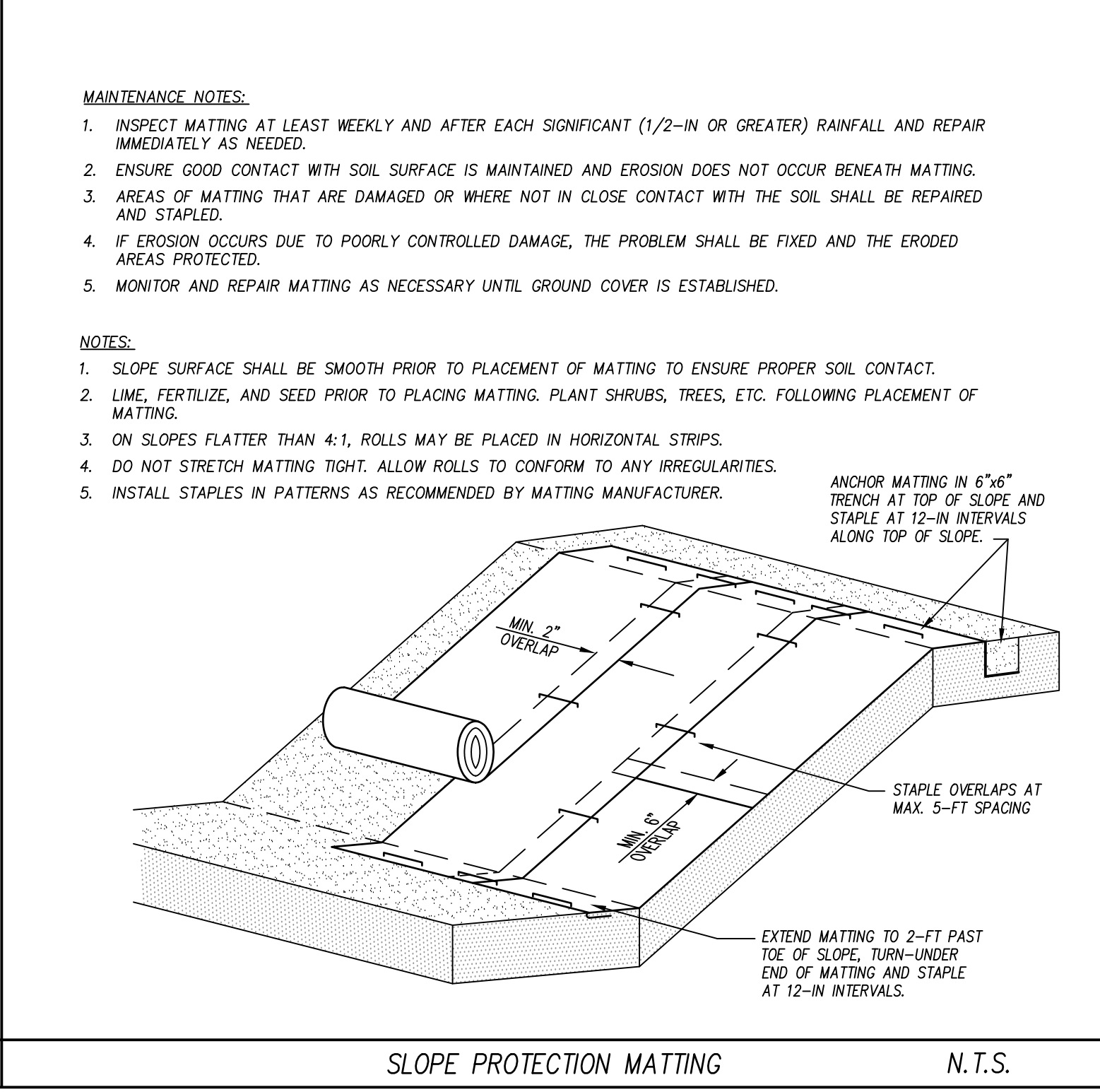
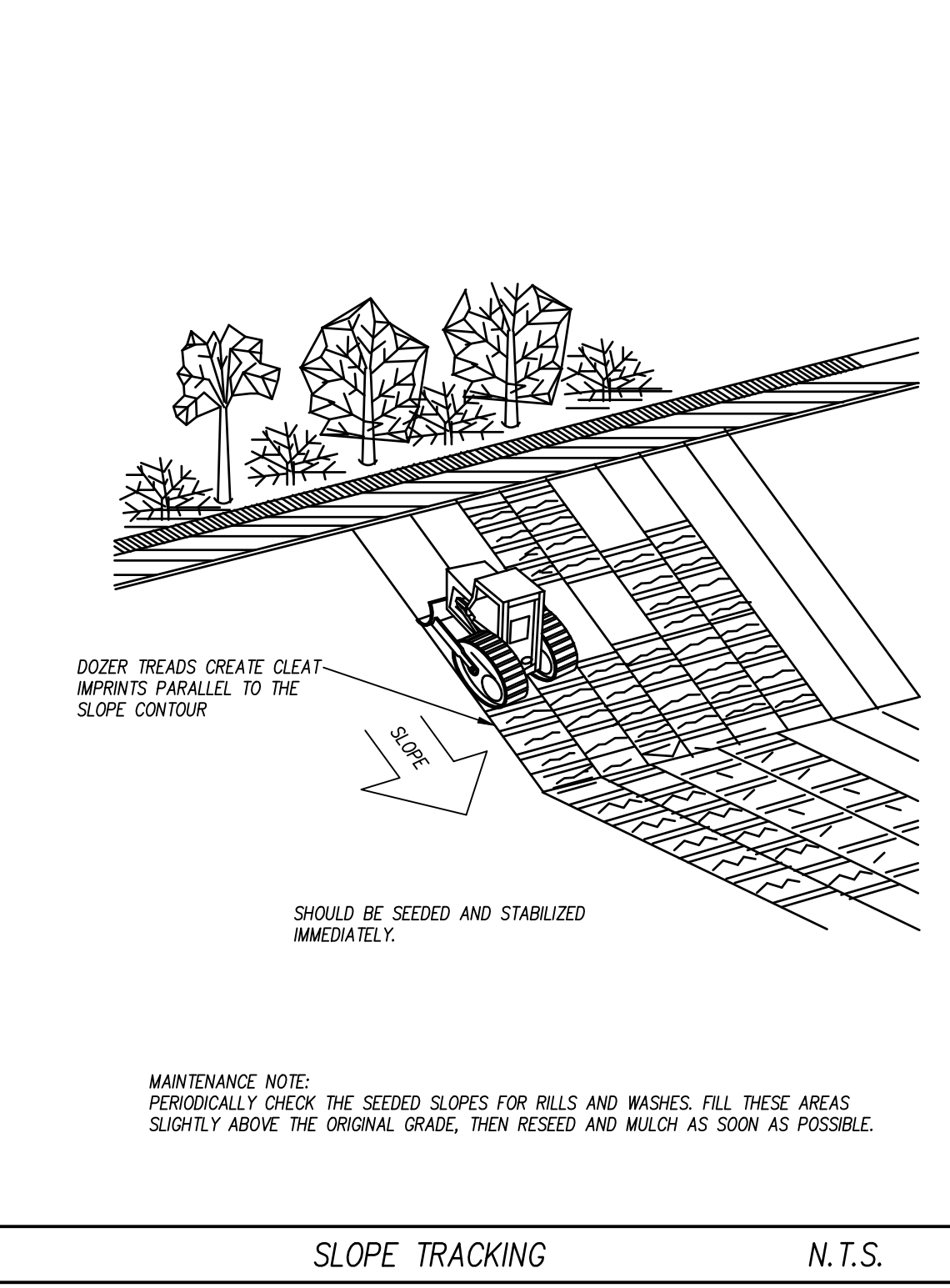
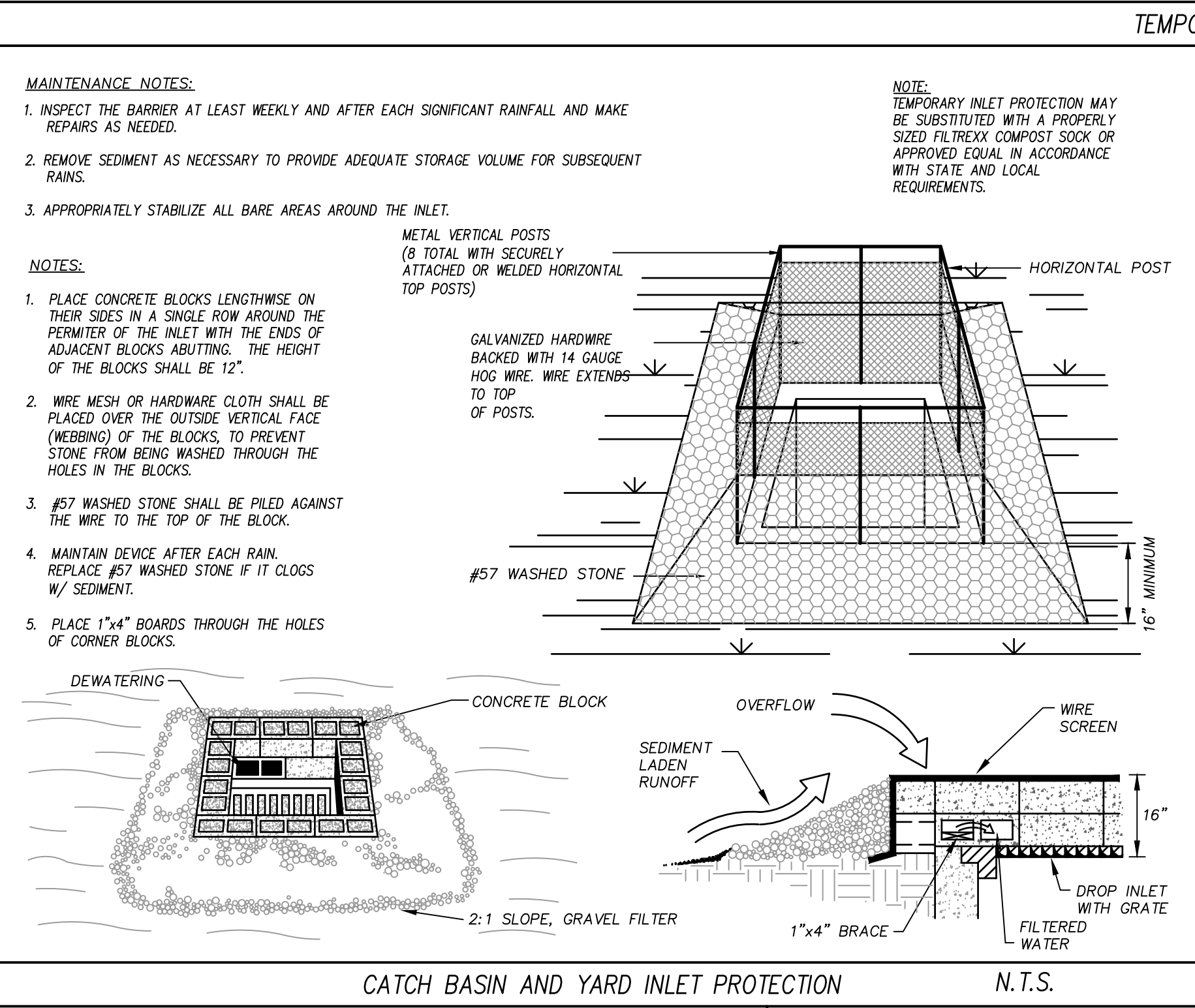
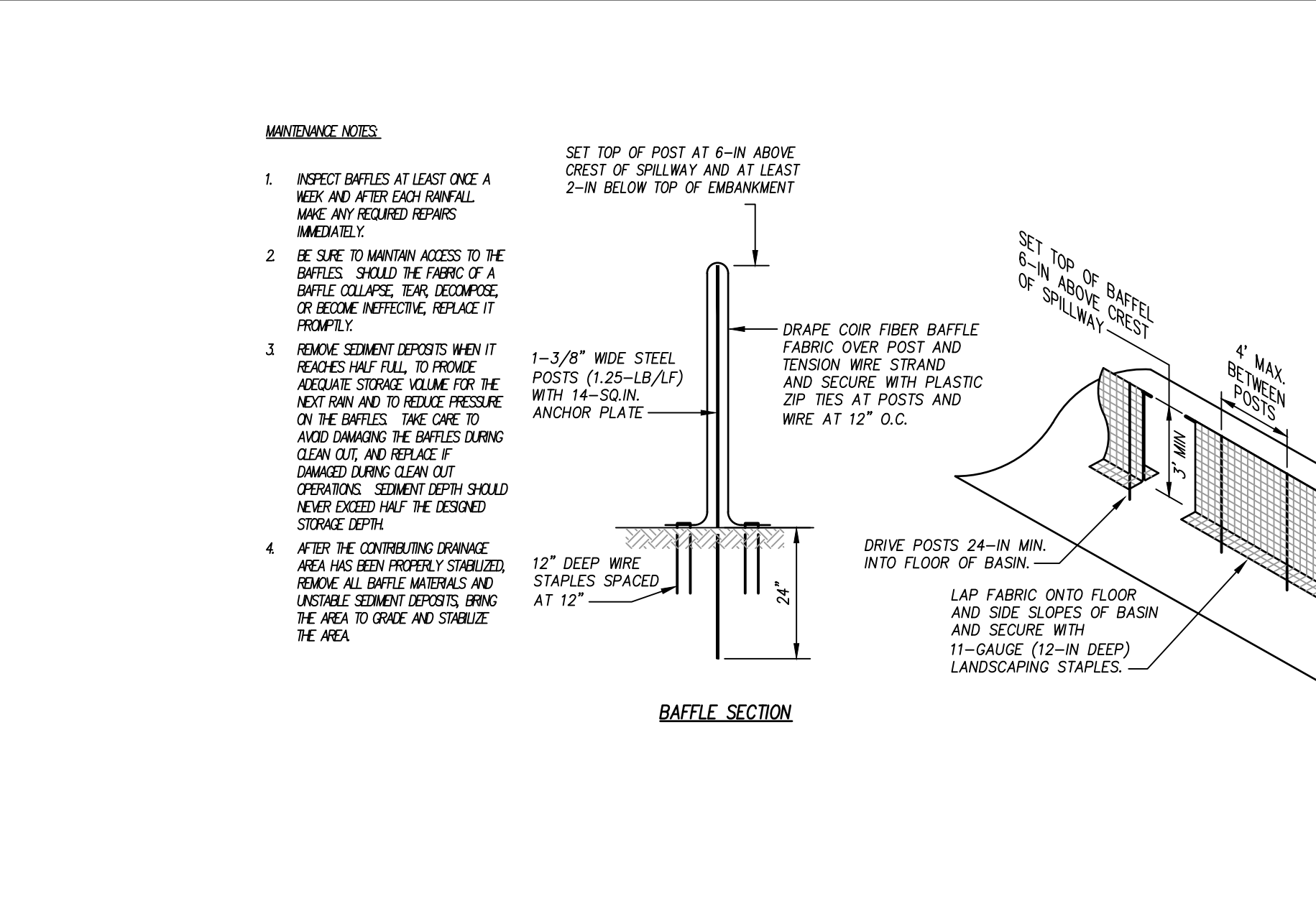
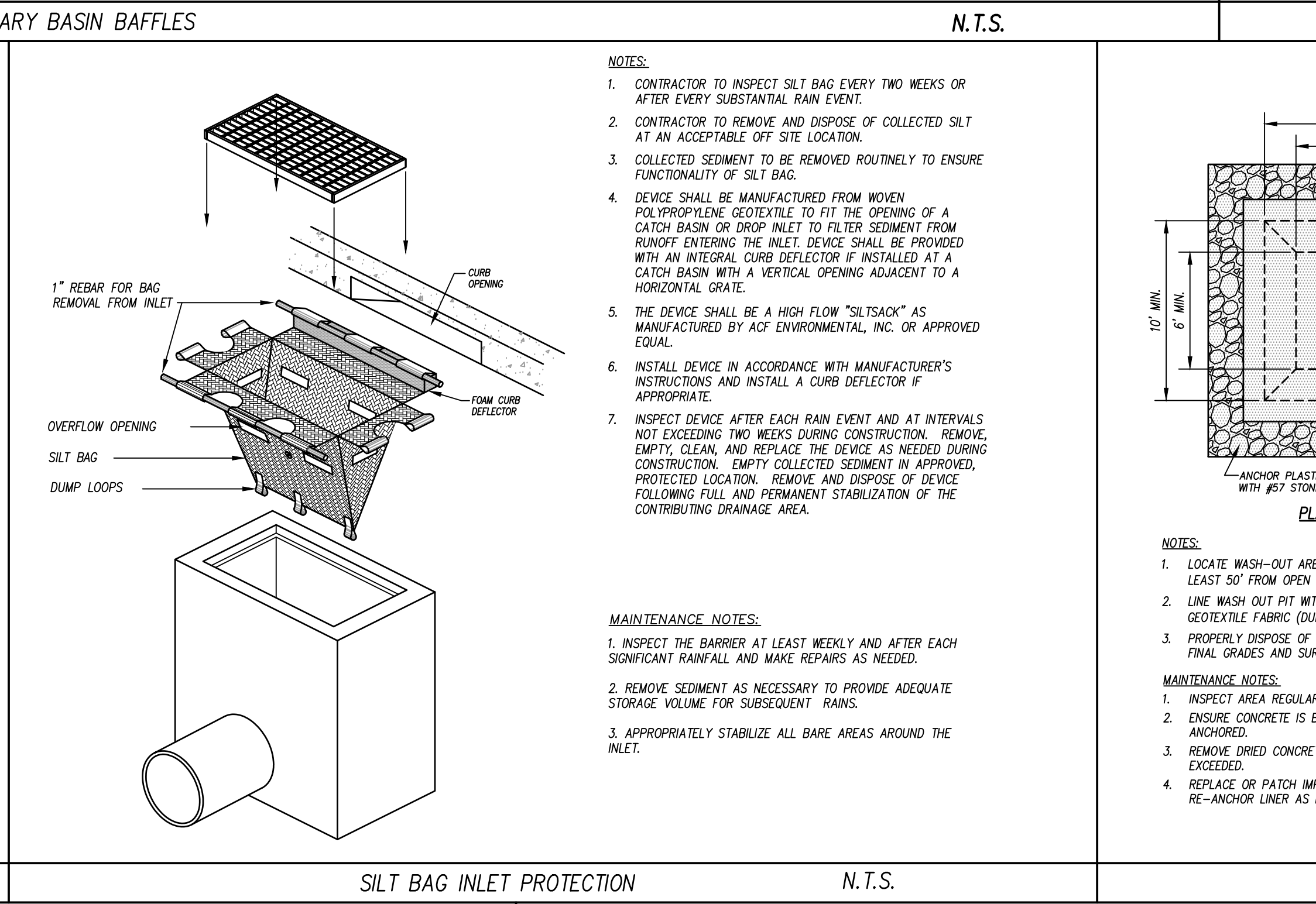
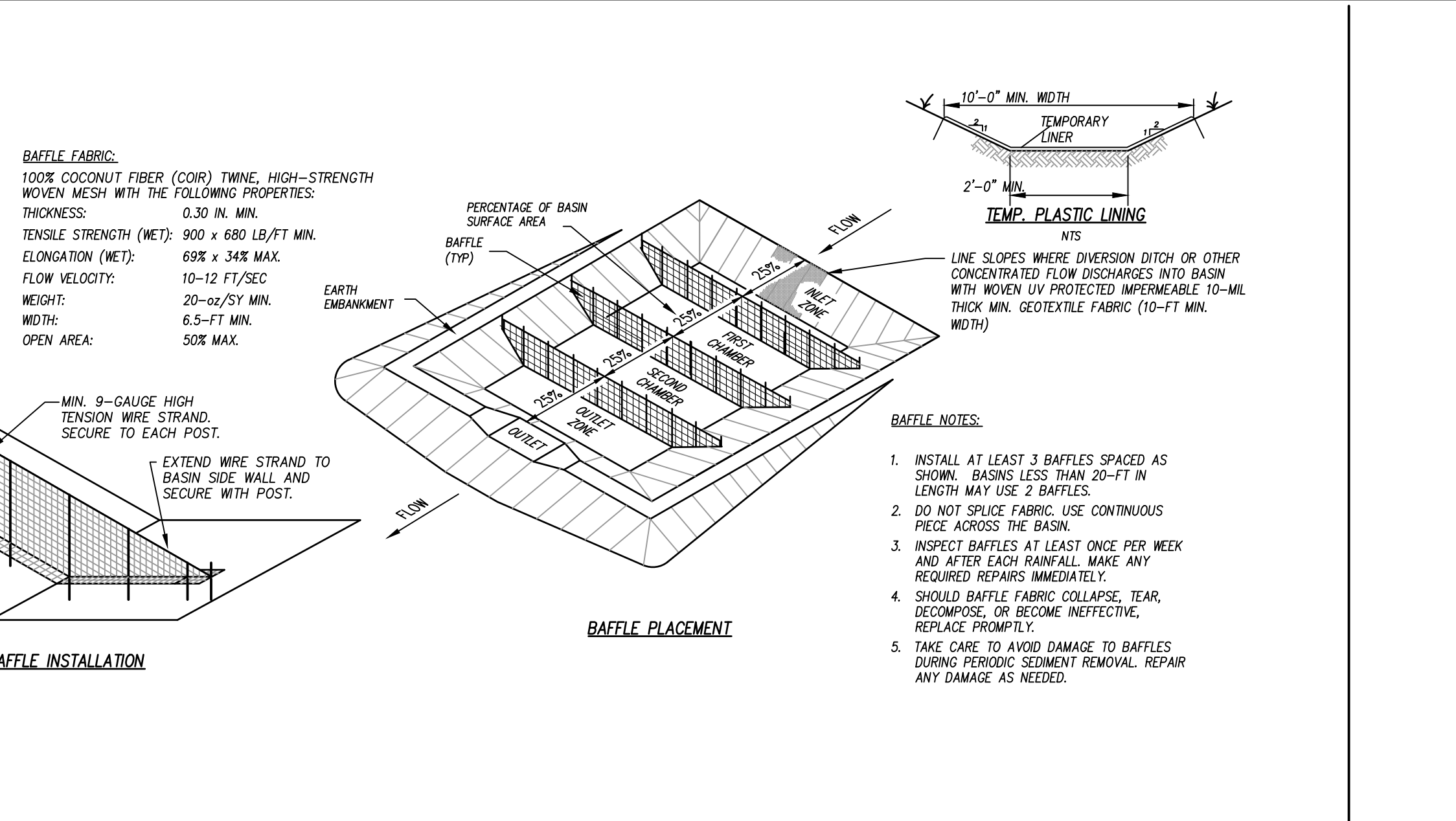
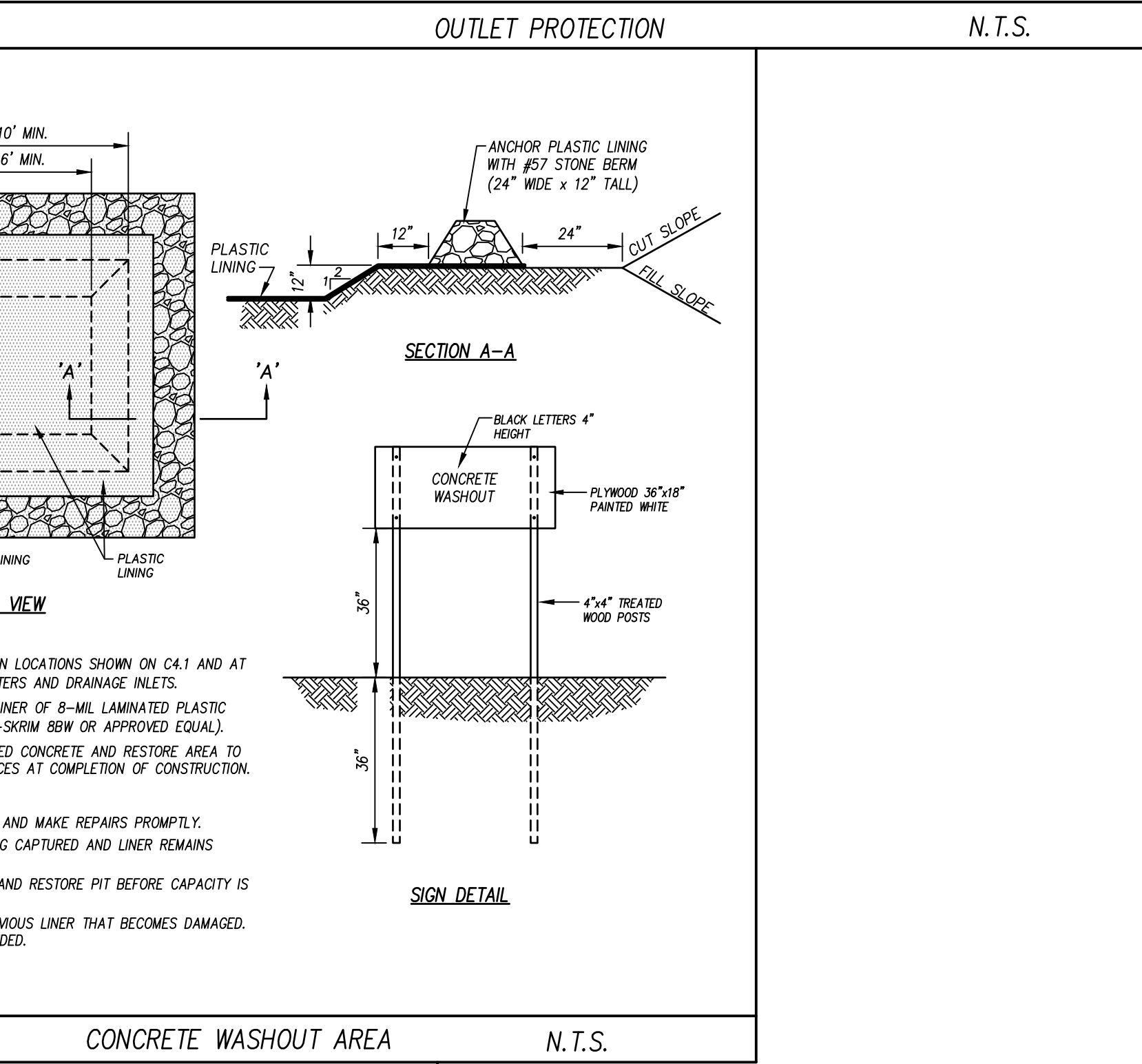
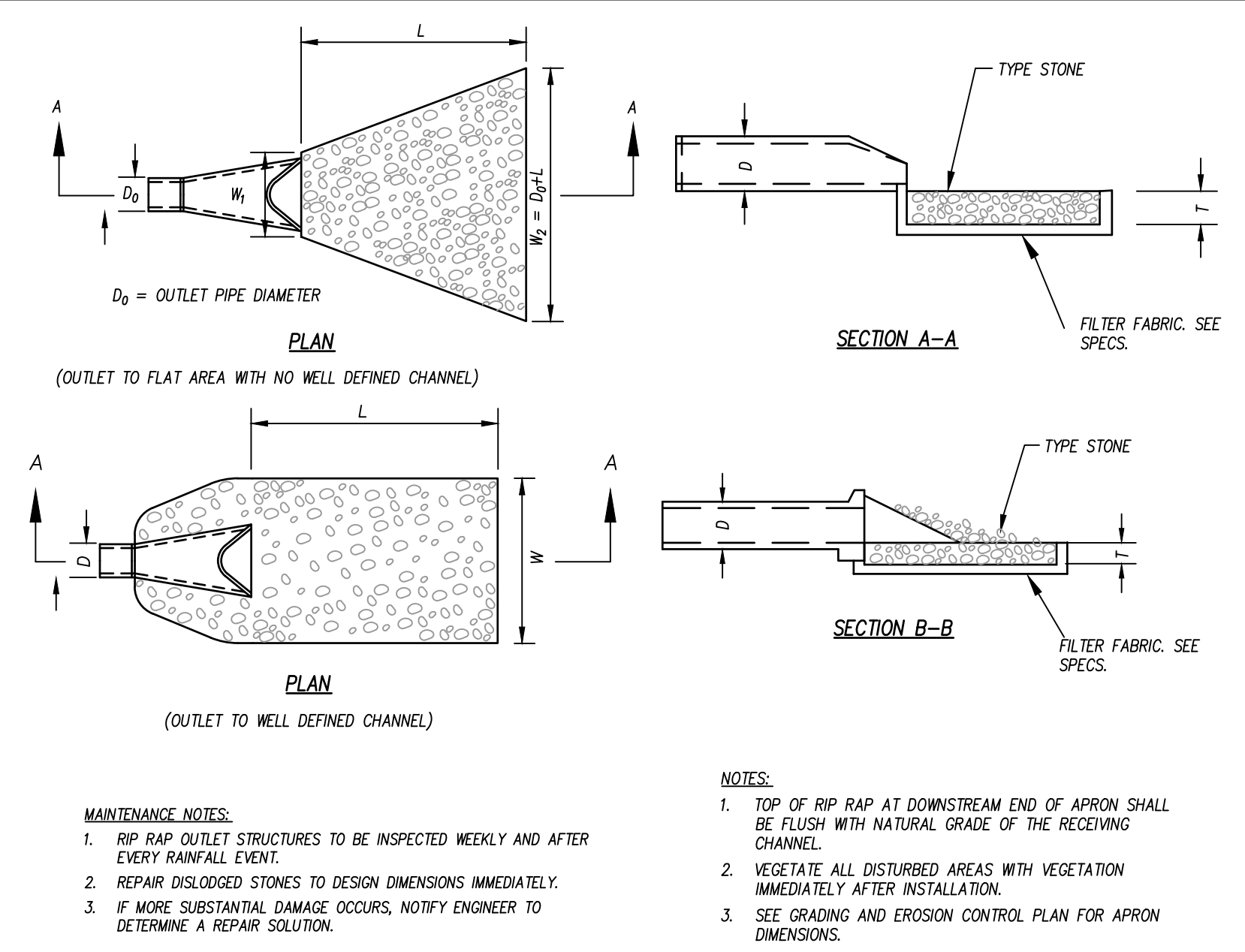
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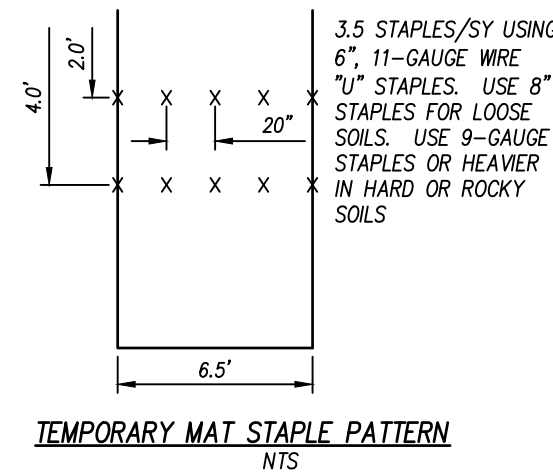
NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
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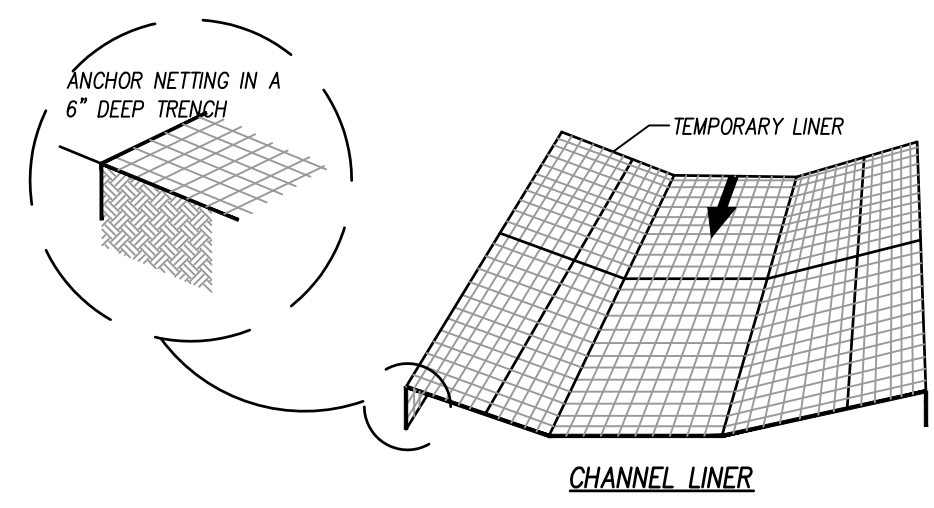
EROSION CONTROL
DETAILS

C-7.03





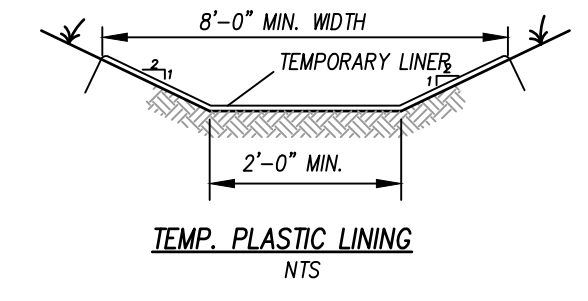
TEMPORARY MAT STAPLE PATTERN
NTS



CHANNEL LINER

CONSTRUCTION SPECIFICATIONS:

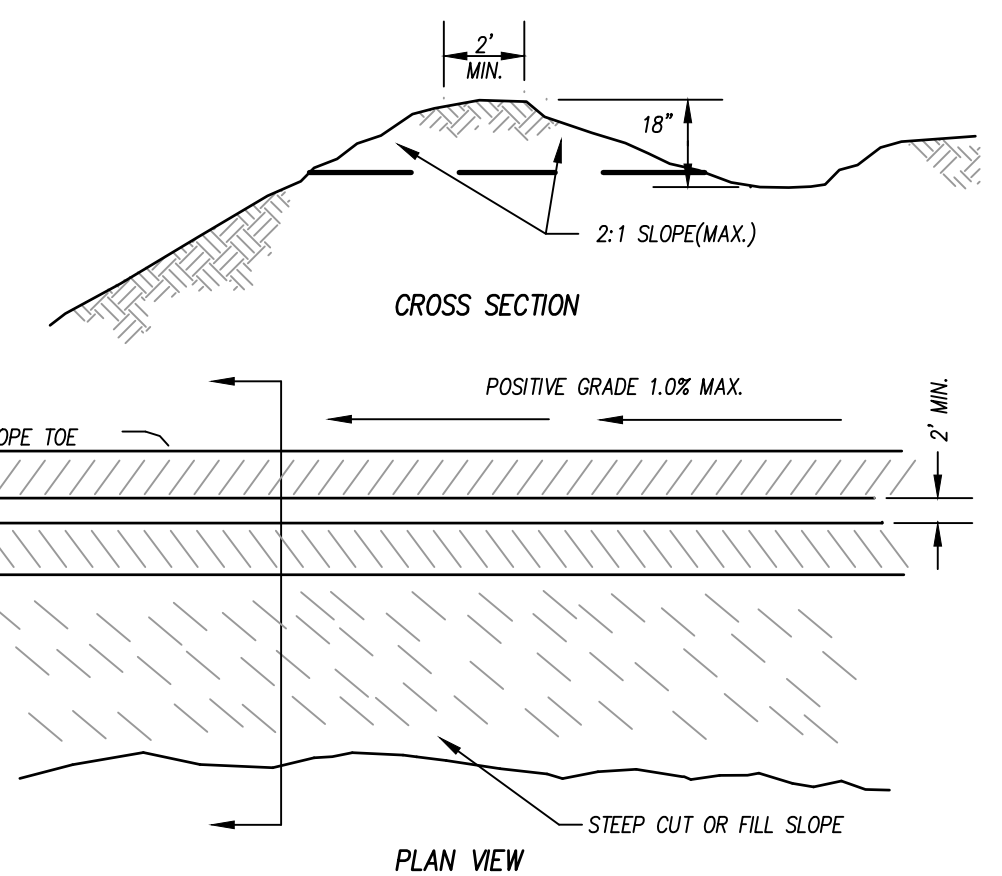
1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIALS.
2. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3. ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4. PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.
5. VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.
6. APPLY SOLID PLASTIC (BLACK, 20 MIL) LINING ON SURFACE OF DIVERSION DITCH ON ANY SLOPES GREATER THAN 10% ENTERING BASINS/PONDS.



TEMP. PLASTIC LINING
NTS

MAINTENANCE NOTES:

1. INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER TEMPORARY RAINFALL.
2. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR DIVERSION DITCH.
3. INSPECT AND MAKE TIMELY REPAIRS AS NEEDED.



CROSS SECTION

PLAN VIEW

MATting INSTALLATION NOTES:

1. INSTALL TEMPORARY CHANNEL MATTING IN ALL DIVERSION SWALES OR OTHER GRASSED AREAS OF CONCENTRATED STORMWATER FLOW DURING BOTH TEMPORARY AND PERMANENT GRASS ESTABLISHMENT. ALL TEMPORARY MATTING SHALL BE EXCELSIOR MATTING UNLESS NOTED OTHERWISE ON THE EROSION CONTROL PLAN.
2. SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.
3. PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
4. 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.
5. ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
6. PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
7. FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
8. MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
9. THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

DIVISION DITCH SCHEDULE

DIVERSION DITCH	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)
TDD-1	2	3:1	1.50%	100 LF	GRASS	CURLED WOOD MAT	8
TDD-2	2	3:1	1.00%	420 LF	GRASS	CURLED WOOD MAT	8
TDD-3	2	3:1	1.00%	120 LF	GRASS	CURLED WOOD MAT	8
TDD-4	2	3:1	1.00%	300 LF	GRASS	CURLED WOOD MAT	8
TDD-5	2	3:1	1.04%	240 LF	GRASS	CURLED WOOD MAT	8
TDD-6	2	3:1	0.79%	380 LF	GRASS	CURLED WOOD MAT	8
TDD-7	2	3:1	1.00%	210 LF	GRASS	CURLED WOOD MAT	8
TDD-8	2	3:1	2.27%	110 LF	GRASS	CURLED WOOD MAT	8

NOTES:
SEE PLANS FOR DIRECTION OF CHANNELS.

TEMPORARY DIVERSION DITCH / BERM

N.T.S.

INSTALLATION NOTES:

1. REFER TO "NORTH CAROLINA DIVISION OF FOREST RESOURCES" LITERATURE, INSTALLATION MAINTENANCE GUIDELINES, & "NORTH CAROLINA FORESTRY BMP MANUAL-2006"
2. USE A BULLDOZER, KNIFELOADER, OR SKIDDER TO INSTALL & REMOVE DRAGLINE MATS.
3. KEEP HEAVY EQUIPMENT OUT OF STREAM.
4. INSTALL WATER DIVERSION DEVICES (WATER BARS, TURNOUTS, BROAD-BASED DIPS, ETC.) ON BOTH SIDES OF THE MATS.
5. STABILIZE EXPOSED MINERAL SOIL WITH TREE TOPS OR BRUSH DURING MAT INSTALLATION, AND SEEDING/MULCH AFTER MAT REMOVAL.
6. INSTALL MATS TO CREATE A MINIMUM TEN FOOT BRIDGE WIDTH.
7. INSTALL ROAD/LOG MATS THROUGH EXTENTS OF WETLAND AREAS.
8. THERE SHALL BE NO IMPACTS TO THE STREAM. NO PUMP AROUND IS PROPOSED OR REQUIRED.

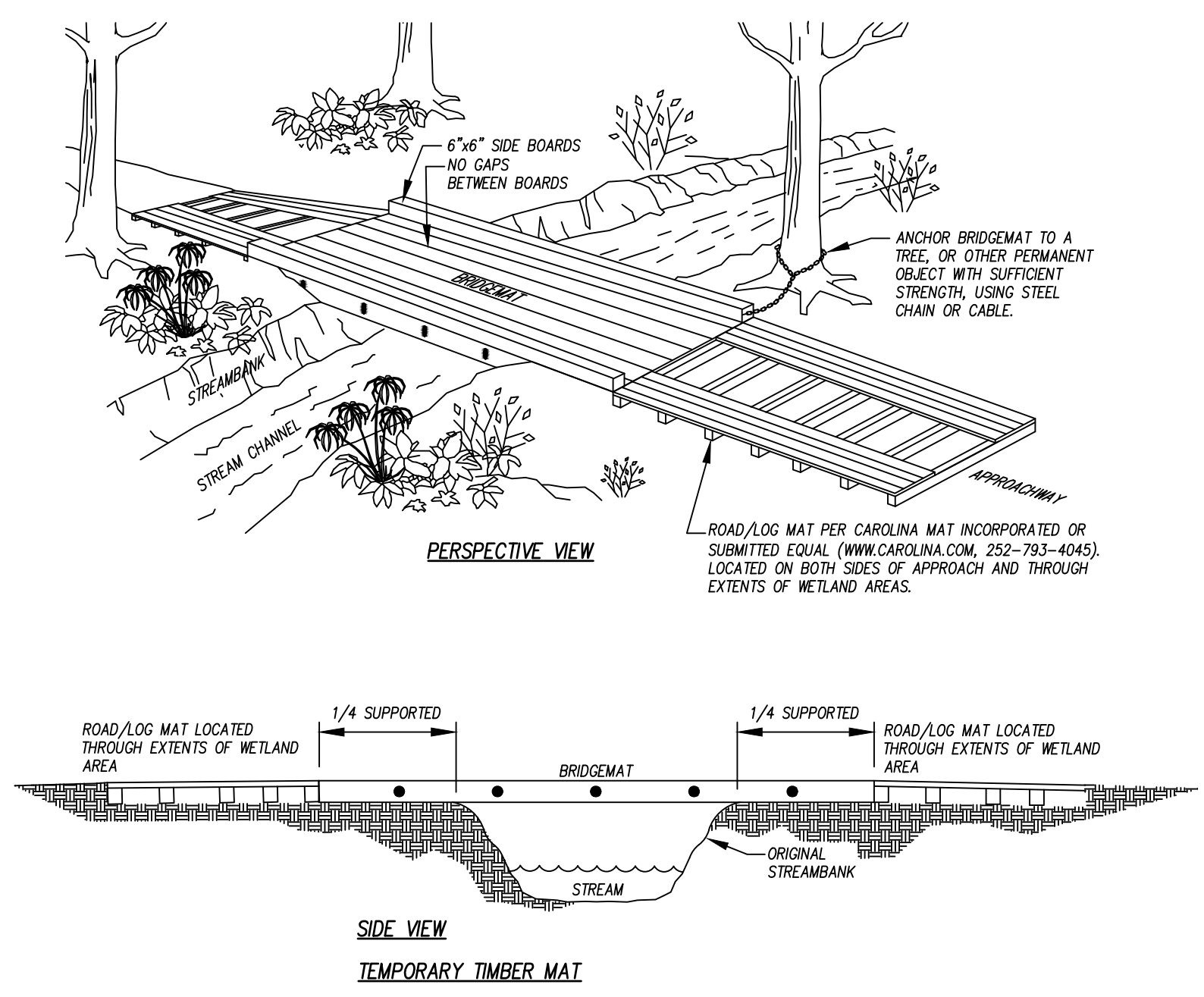
MAINTENANCE NOTES:

1. KEEP MATS' SURFACE FREE OF MINERAL SOIL AND DEBRIS THAT COULD ENTER STREAM.
2. PERIODICALLY CHECK MAT HARDWARE: RETIGHTEN NUTS & CABLE CLAMPS AS NECESSARY TO MAINTAIN BRIDGE STRENGTH AND INTEGRITY.
3. IMMEDIATELY REMOVE ANY DEBRIS WHICH ENTERS THE STREAM AT THE CROSSING LOCATION.

REMOVAL NOTES:

1. CLEAN OFF BRIDGE SURFACE.
2. REMOVE MATS BY USING MAT CABLE LOOP OR SKIDDER GRAPPLE.
3. PERMANENTLY STABILIZE DISTURBED PORTIONS OF STREAM BANK AND APPROACH ROADS WITH PERENNIAL GRASSES/MULCH (OR WETLAND MIX WHEN APPLICABLE).
4. LEAVE APPROPRIATE WATER DIVERSION STRUCTURES IN PLACE ON BOTH SIDES OF STREAM.

NOTE:
TEMP. BRIDGEMAT SHALL BE SIZED, DESIGNED AND MONITORED BY A LICENSED ENGINEER HIRED BY THE CONTRACTOR AS NEEDED TO ACCOMMODATE EQUIPMENT REQUIRED FOR PROJECT.

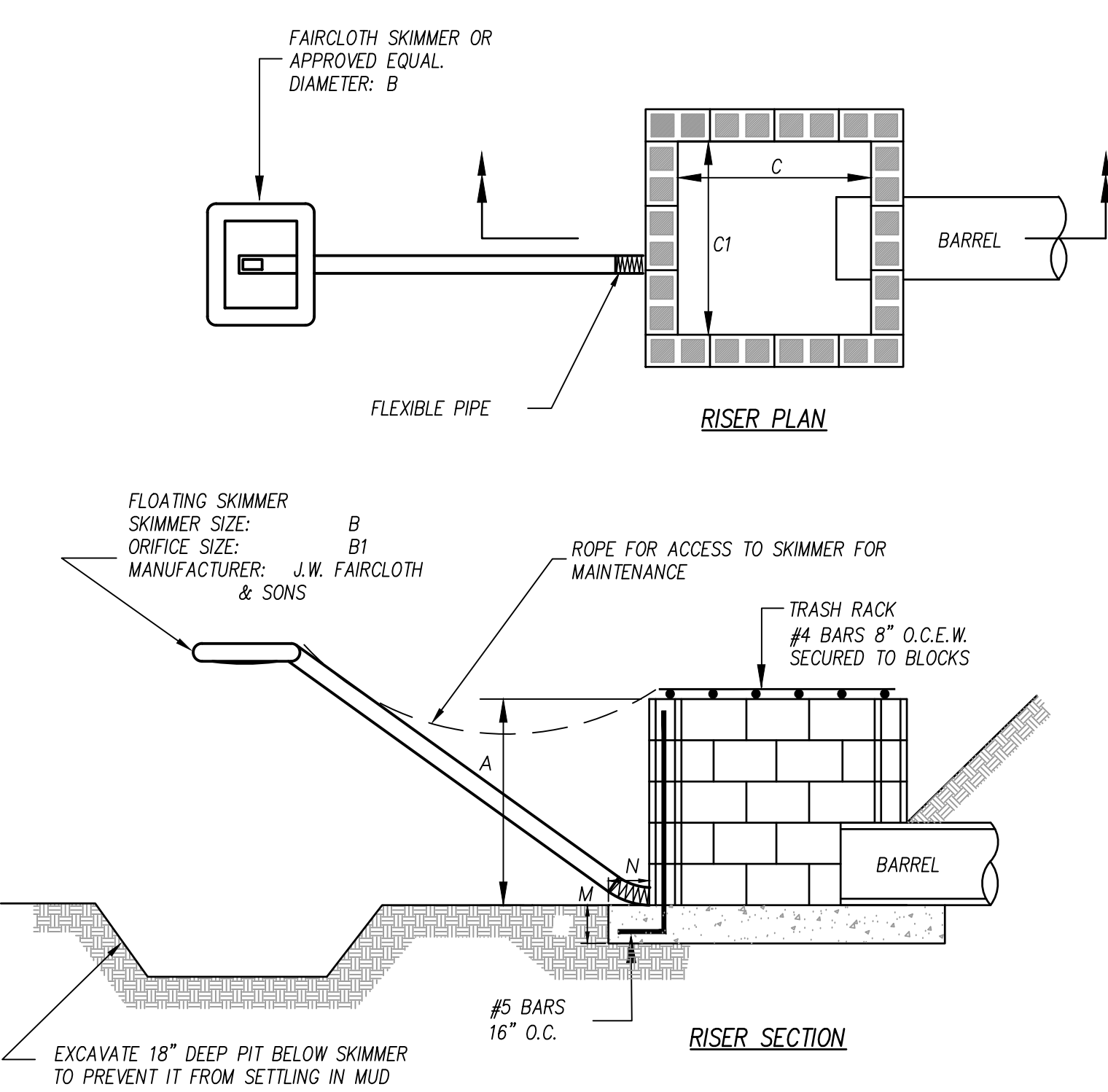


PERSPECTIVE VIEW

SIDE VIEW
TEMPORARY TIMBER MAT

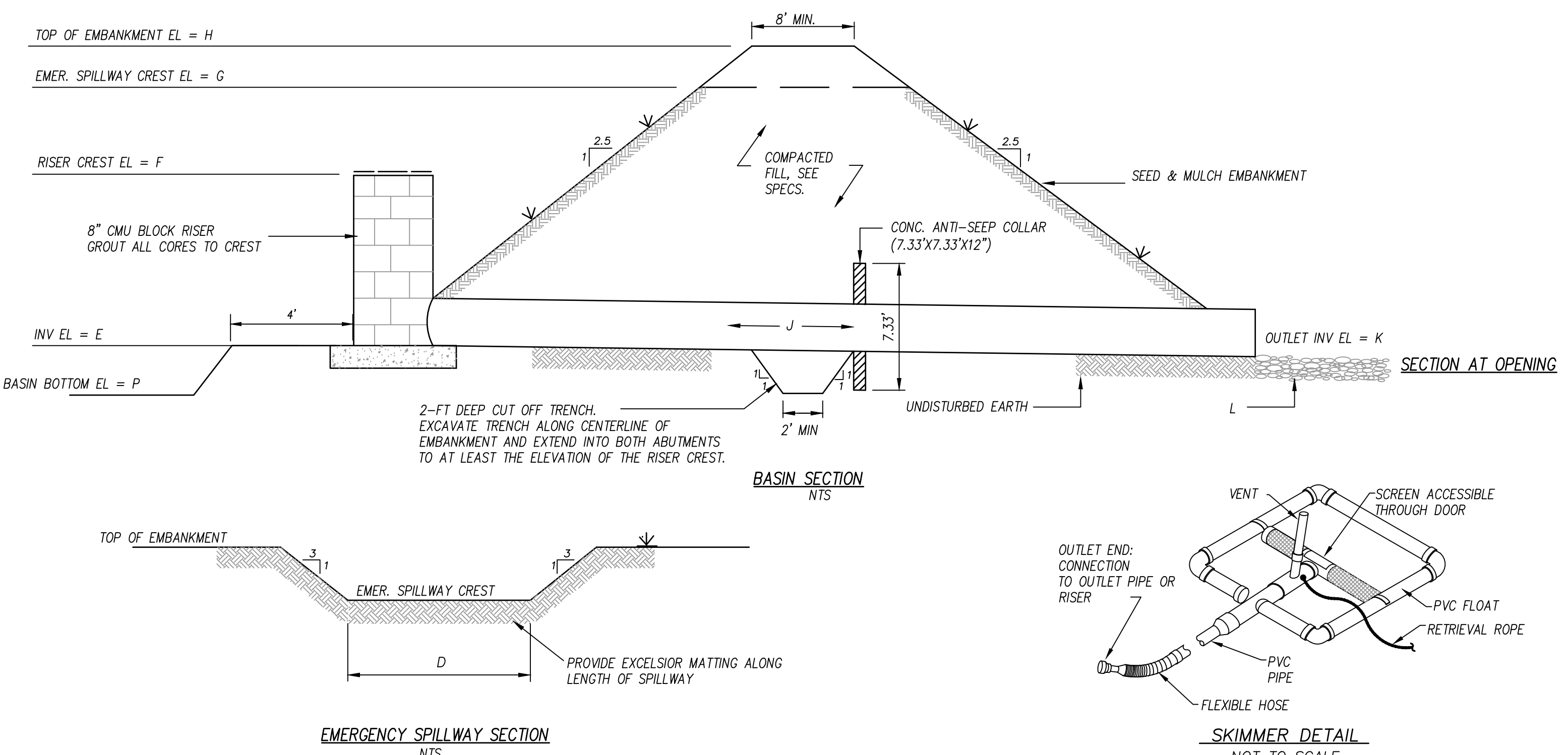
TEMPORARY TIMBER/BRIDGE MAT

N.T.S.



RISER PLAN

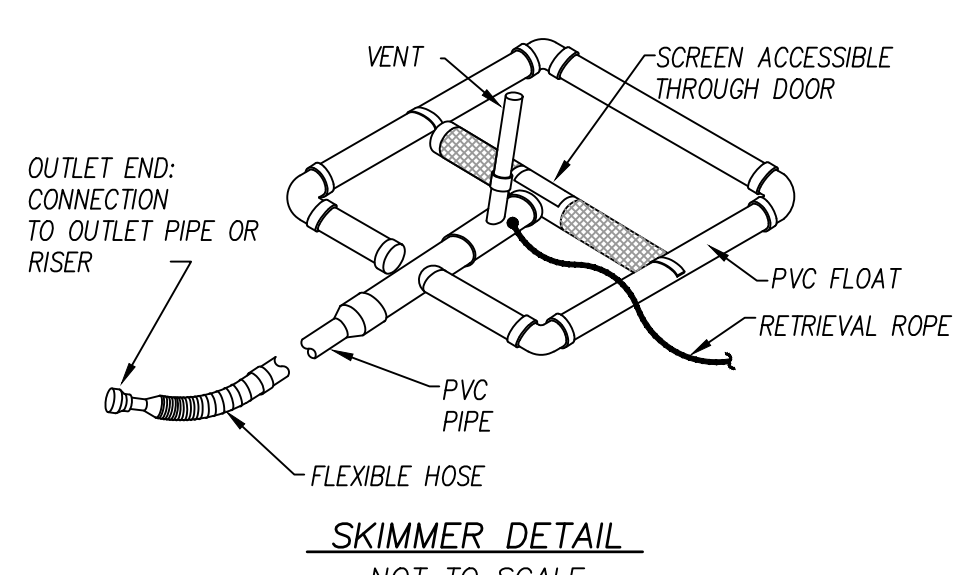
RISER SECTION



SECTION AT OPENING

BASIN SECTION
NTS

EMERGENCY SPILLWAY SECTION
NTS



SKIMMER DETAIL
NOT TO SCALE

CONSTRUCTION NOTES:

1. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS INDICATED. CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOILS CONTAINING ORGANIC MATTER.
2. PLACE OUTLET BARREL ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL OR CRUSHED STONE AS BACKFILL AROUND PIPE. PLACE FILL MATERIAL AROUND PIPE IN 4-IN LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY. CARE SHALL BE TAKEN TO NOT RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION.
3. INSTALL OUTLET PROTECTION AND CONCRETE ANTI-SEEP COLLAR.
4. CONSTRUCT OUTLET RISER STRUCTURE.
5. ASSEMBLE THE SKIMMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ATTACH SKIMMER TO RISER WITH FLEXIBLE JOINT AND POSITION THE SKIMMER OVER THE EXCAVATED PIT. ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN.
6. EMBANKMENT SHALL BE CONSTRUCTED OF CLEAN STRUCTURAL SOIL, FREE OF ROOTS, VEGETATION, ROCKS & OTHER OBJECTIONABLE MATERIAL. CONSTRUCT EMBANKMENT CORE AND CUT-OFF TRENCH OF IMPERVIOUS SOILS. SCARIFY SURFACES BEFORE PLACING FILL. PLACE FILL IN 6-8 INCH LOOSE LIFTS. COMPACT TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY.
7. APPLY SEED AND LIME THE ENTIRE EMERGENCY SPILLWAY WITH EXCELSIOR MATTING.
8. INSTALL BAFFLES ACROSS BOTTOM OF BASIN.

MAINTENANCE NOTES:

1. INSPECT DEVICE AFTER EACH RAINFALL. REMOVE SEDIMENT WHEN SEDIMENT REACHES A DEPTH OF NO MORE THAN ONE-HALF THE HEIGHT OF THE RISER. REPAIR BAFFLES IF THEY ARE DAMAGED.
2. PULL SKIMMER TO SIDE OF BASIN WITH ROPE AND INSPECT REGULARLY. KEEP SKIMMER HEAD, ORIFICE AND PIPE FREE OF DEBRIS. REMOVE SEDIMENT FROM BENEATH SKIMMER AND ENSURE VEGETATION DOES NOT INTERFERE WITH SKIMMER OPERATION.
3. CHECK FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY.

SEDIMENT CLEANOUT NOTES:

1. SEDIMENT CLEANOUT ELEVATION (50% FULL) = 412.80'
2. ELEVATION MUST BE MARKED IN THE FIELD WITH A PERMANENT STAKE.

SEDIMENT BASIN SCHEDULE

SED. BASIN NO.	RISER					EMERG.	ELEVATIONS					OUTLET BARREL	OUTLET PROTECTION	FOOTING		DEWATERING TIME (HRS)	
	A (FT)	B (IN)	B1 (IN)	C (FT)	C1 (FT)		D (FT)	E (FT)	F (FT)	G (FT)	H (FT)			P (FT)	J		K (FT)
TSB-1	3.50	1.5	1.5	4	4	10.0	412.00	415.50	415.84	418.00	411.50	70 LF 24" RCP	410.90	12'Lx6"W1x14"W2x18"TH CLASS B STONE	12	12	88.1

TEMPORARY SEDIMENT BASIN

N.T.S.

CLH design, p.a.
400 Regency Forest Dr.
Cary, NC 27518
Phone: 919.319.8716
LA: C-106, PE: C-1595

PRELIMINARY PLANS
FOR REVIEW ONLY

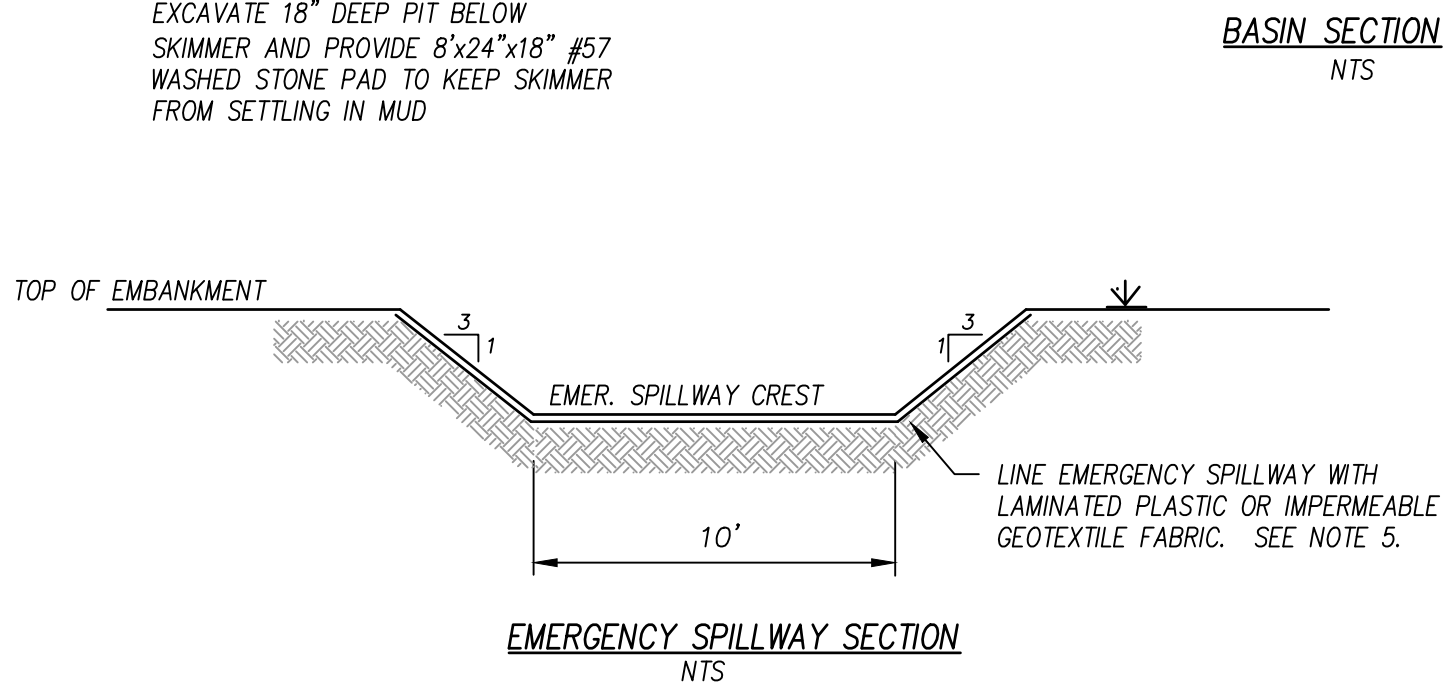
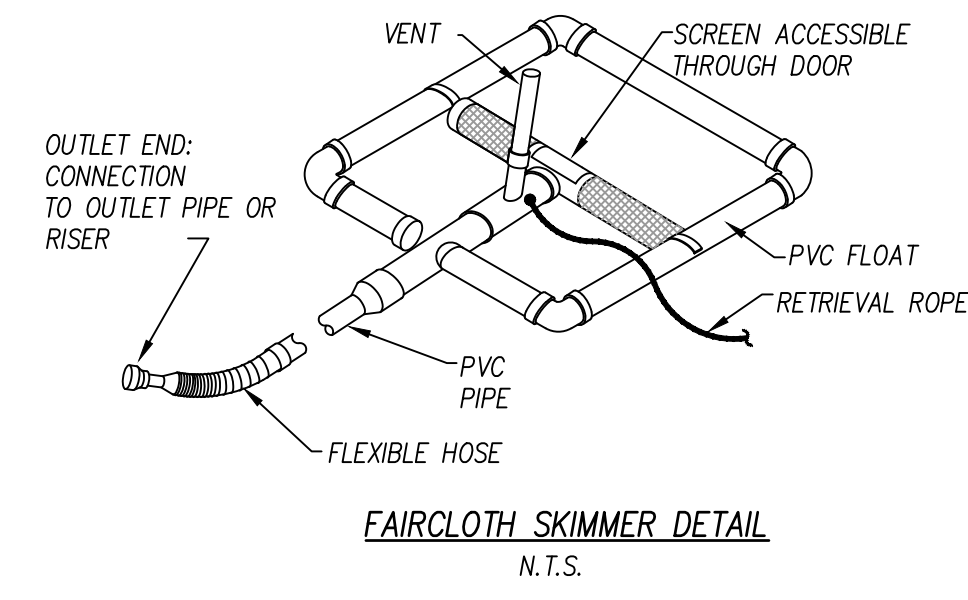
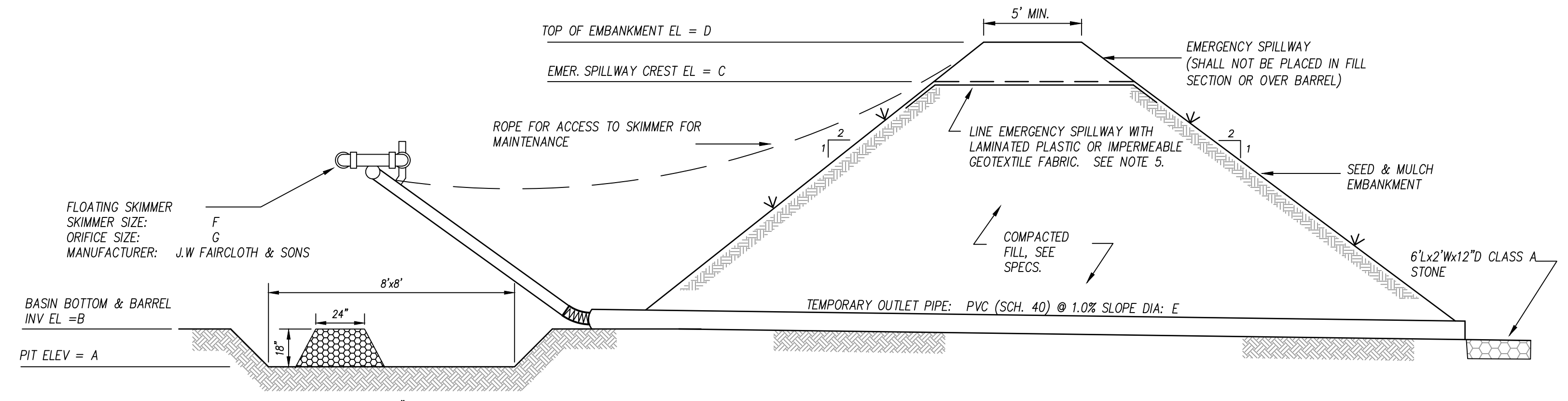
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

EROSION CONTROL
DETAILS

C-7.04



BASIN NUMBER	A (FT)	B (FT)	C (FT)	D (FT)	E (IN)	F (IN)	G (IN)
	PIT ELEV	BASIN BOTTOM	EMERG. SPILLWAY	EMBANK. TOP	OUTLET PIPE DIA.	SKIMMER SIZE	ORIFICE DIA.
TSSB-1	417.50	419.00	422.50	424.00	4	1.5	1.5
TSSB-2	418.50	420.00	423.10	425.00	4	2.0	1.75
TSSB-3	422.50	424.00	426.00	427.50	4	1.5	0.5

- CONSTRUCTION NOTES:**
- PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS INDICATED. CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOILS CONTAINING HIGH AMOUNTS OF ORGANIC MATTER.
 - PLACE OUTLET BARREL ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL OR CRUSHED STONE AS BACKFILL AROUND PIPE. PLACE FILL MATERIAL AROUND PIPE IN 4-IN LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST 90% OF THE STANDARD PROCTOR DENSITY. CARE SHALL BE TAKEN TO NOT RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION.
 - ASSEMBLE THE SKIMMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ATTACH SKIMMER TO BARREL PIPE WITH FLEXIBLE JOINT AND POSITION THE SKIMMER OVER THE EXCAVATED PIT. ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN.
 - EMBANKMENT SHALL BE CONSTRUCTED OF CLEAN STRUCTURAL SOIL, FREE OF ROOTS, VEGETATION, ROCKS & OTHER OBJECTIONABLE MATERIAL. SCARIFY SURFACES BEFORE PLACING FILL. PLACE FILL IN 6-8 INCH LOOSE LIFTS. COMPACT TO AT LEAST 90% OF THE STANDARD PROCTOR DENSITY.
 - LINE THE ENTIRE EMERGENCY SPILLWAY WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. FABRIC SHALL BE WIDE ENOUGH TO COVER THE BOTTOM AND SIDES OF THE SPILLWAY AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES SHALL BE SECURED WITH 8-IN STAPLES OR PINS. THE FABRIC SHALL BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXTEND ONTO STABLE GROUND. THE WIDTH OF THE FABRIC SHALL BE ONE PIECE, NOT JOINED OR SPLICED. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTIONS SHALL OVERLAP THE LOWER SECTIONS SO WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.
 - INSTALL BAFFLES ACROSS BOTTOM OF BASIN.

- MAINTENANCE NOTES:**
- INSPECT DEVICE AFTER EACH RAINFALL. REMOVE SEDIMENT WHEN SEDIMENT REACHES A DEPTH OF NO MORE THAN ONE-HALF THE HEIGHT OF THE RISER. REPAIR BAFFLES IF THEY ARE DAMAGED.
 - PULL SKIMMER TO SIDE OF BASIN WITH ROPE AND INSPECT REGULARLY. KEEP SKIMMER HEAD, ORIFICE AND PIPE FREE OF DEBRIS. REMOVE SEDIMENT FROM BENEATH SKIMMER AND ENSURE VEGETATION DOES NOT INTERFERE WITH SKIMMER OPERATION.
 - CHECK FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY.

TEMPORARY SKIMMER SEDIMENT BASIN N.T.S.

SEEDBED PREPARATION

- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8" 1.
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF IMPORTED TOPSOIL. REFER TO SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. CONSTRUCTION EQUIPMENT & TRAFFIC SHALL BE REMOVED PRIOR TO SEEDING. 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. ACHIEVE AND MAINTAIN MINIMUM 95% COVERAGE PRIOR TO FINAL ACCEPTANCE, AS DETERMINED ON A PER SQUARE YARD SAMPLE BASIS.
- 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 SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- REFER TO WRITTEN SPECIFICATIONS FOR WARRANTY AND MAINTENANCE OF LAWNS PRIOR TO OWNER'S FINAL ACCEPTANCE.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LIME & FERTILIZATION SCHEDULE

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 2 TONS/ACRE GROUND AGRICULTURAL LIMESTONE IN SANDY SOILS (3 TONS/ACRE IN CLAY SOILS) AND A MINIMUM 1000 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS

PERMANENT OR TEMPORARY GROUND COVER SHALL BE PROVIDED OVER ALL DISTURBED AREAS OF THE SITE PER NPDES PERMIT. GROUND STABILIZATION WILL BE APPLIED WITHIN 14 DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, SWALES, DITCHES, AND CHANNELS THAT AREA MUST BE STABILIZED WITHIN 7 DAYS. PERMANENT GROUND COVER SHALL BE ESTABLISHED IN 14 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER. USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS. APPLY 4000 LB/ACRE GRAIN STRAW AND ANCHOR STRAW WITH ASPHALT TACKING AT A RATE OF 400 GALLONS/ACRE. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.

TEMPORARY SEEDING SCHEDULE

DATE	TYPE	PLANTING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND WINTER RYE (GRAIN)	240 LBS/ACRE 40 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** (SMALL-STEMMED VAR.) ***	240 LBS/ACRE 10 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.
***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

PERMANENT SEEDING SCHEDULE - LAWN AREAS

DATE	TYPE	PLANTING RATE
APR 15 - JULY 15**	HULLED SUNSTAR BERMUDA	85 LBS/ACRE*
JULY 15 - AUG 15	SUNSTAR BERMUDA SPRIGS (WATERING AT CONTRACTOR'S EXPENSE)	
AUG 15 - APR 15	TEMPORARY SEEDING APPLIES**	5 BUSHELS/1,000 SF

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE.

CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION. SEE SPEC SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS. LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED. IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
NURSE GRASS:
ADD ANNUAL RYE (LOLIUM MULTIFLORUM) TO MIXTURE ABOVE AT A RATE 5-8 LBS. PER ACRE.

SEEDING NOTES AND RATES N.T.S.



PRELIMINARY PLANS FOR REVIEW ONLY

Rolesville Town Campus Infrastructure Package 408 EAST YOUNG STREET, ROLESVILLE NC PERMIT SET Town of Rolesville CID-25-07

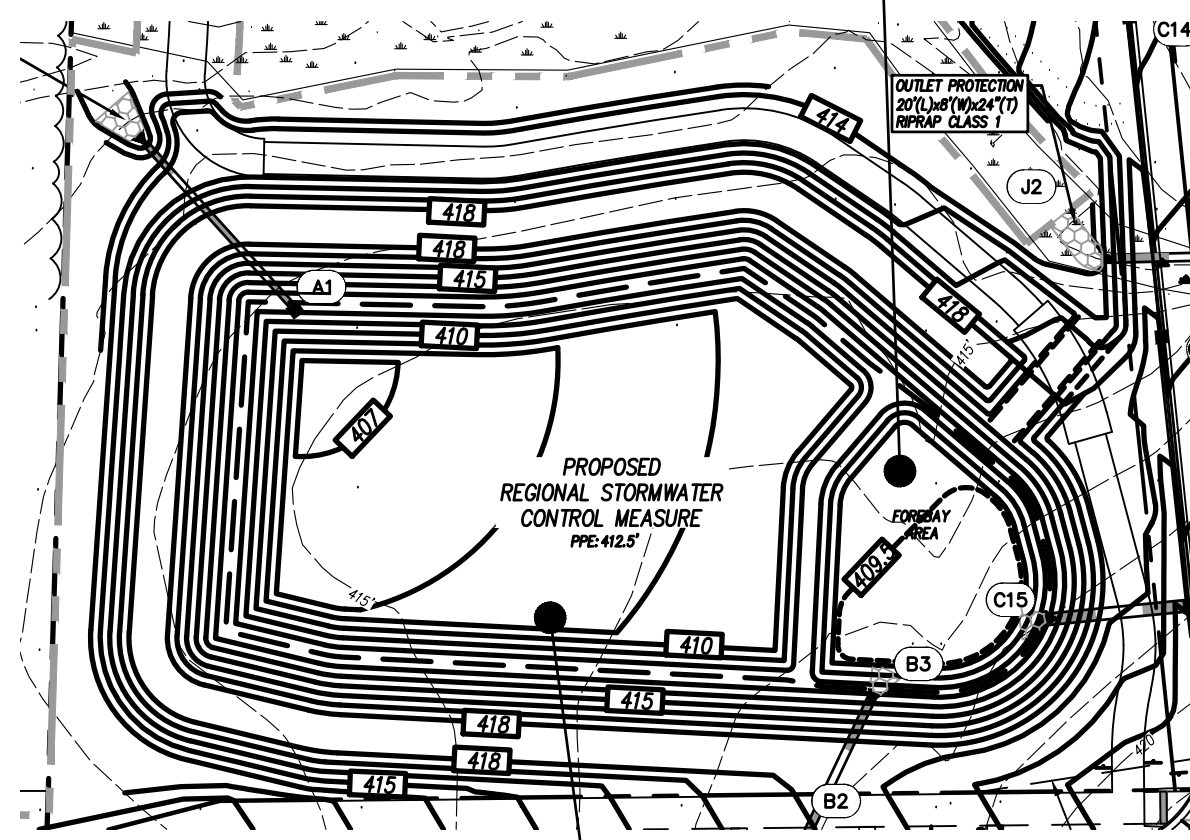
REVISIONS NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

EROSION CONTROL DETAILS

C-7.05

FOREBAY
 BOTTOM ELEV @ 409.5 (AREA: 2,208 SF)
 BOTTOM OF SHELF ELEV @ 412.0 (AREA: 5,004 SF)
 PERMANENT POOL ELEV @ 412.5 (AREA: 5,407 SF)

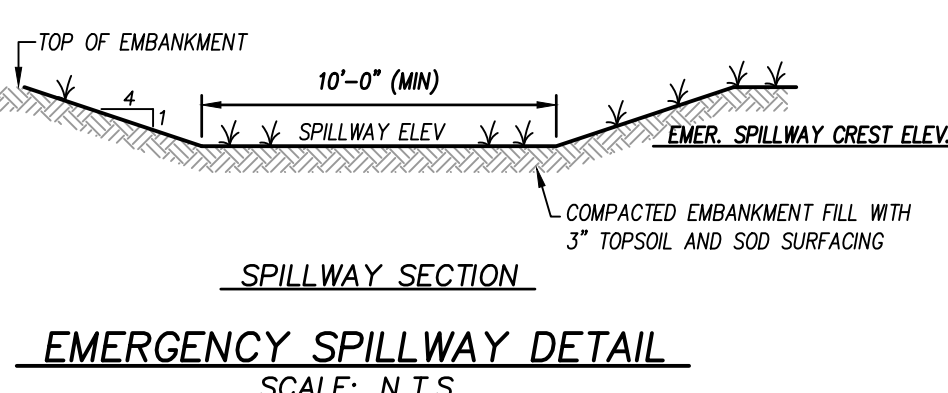


PERMANENT POOL
 BOTTOM ELEV @ 407.0 (AREA: 728 SF)
 BOTTOM OF SHELF ELEV @ 412.0 (AREA: 19,508 SF)
 PERMANENT POOL ELEV @ 412.5 (AREA: 21,261 SF)
 TOP OF SHELF ELEV @ 413.0 (AREA: 28,678 SF)

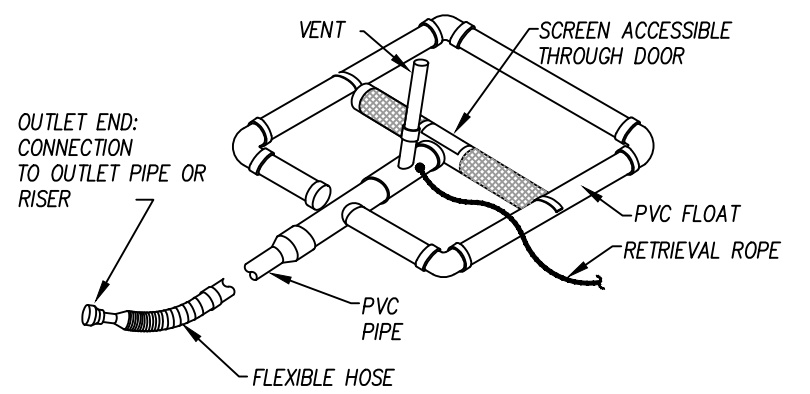
WET POND PLAN VIEW
 SCALE: 1"=40'

WET DETENTION POND 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

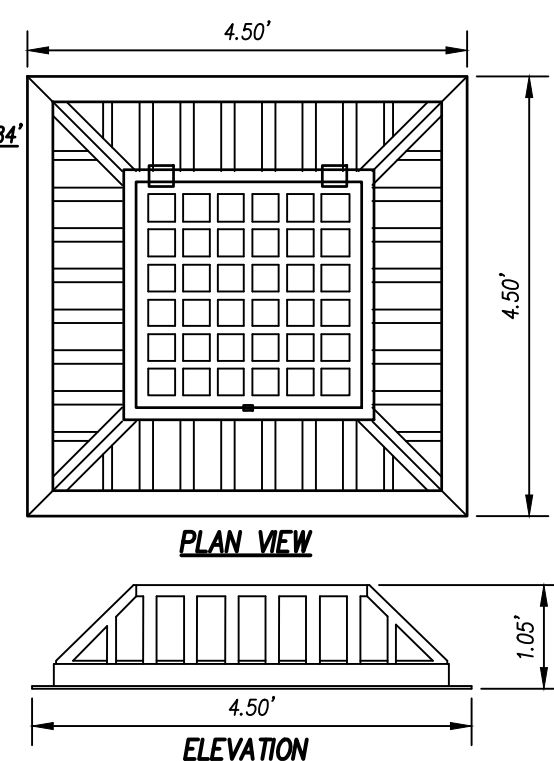
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL SUBSTANTIAL COMPLETION AT WHICH TIME OWNER WILL ASSUME MAINTENANCE RESPONSIBILITY.



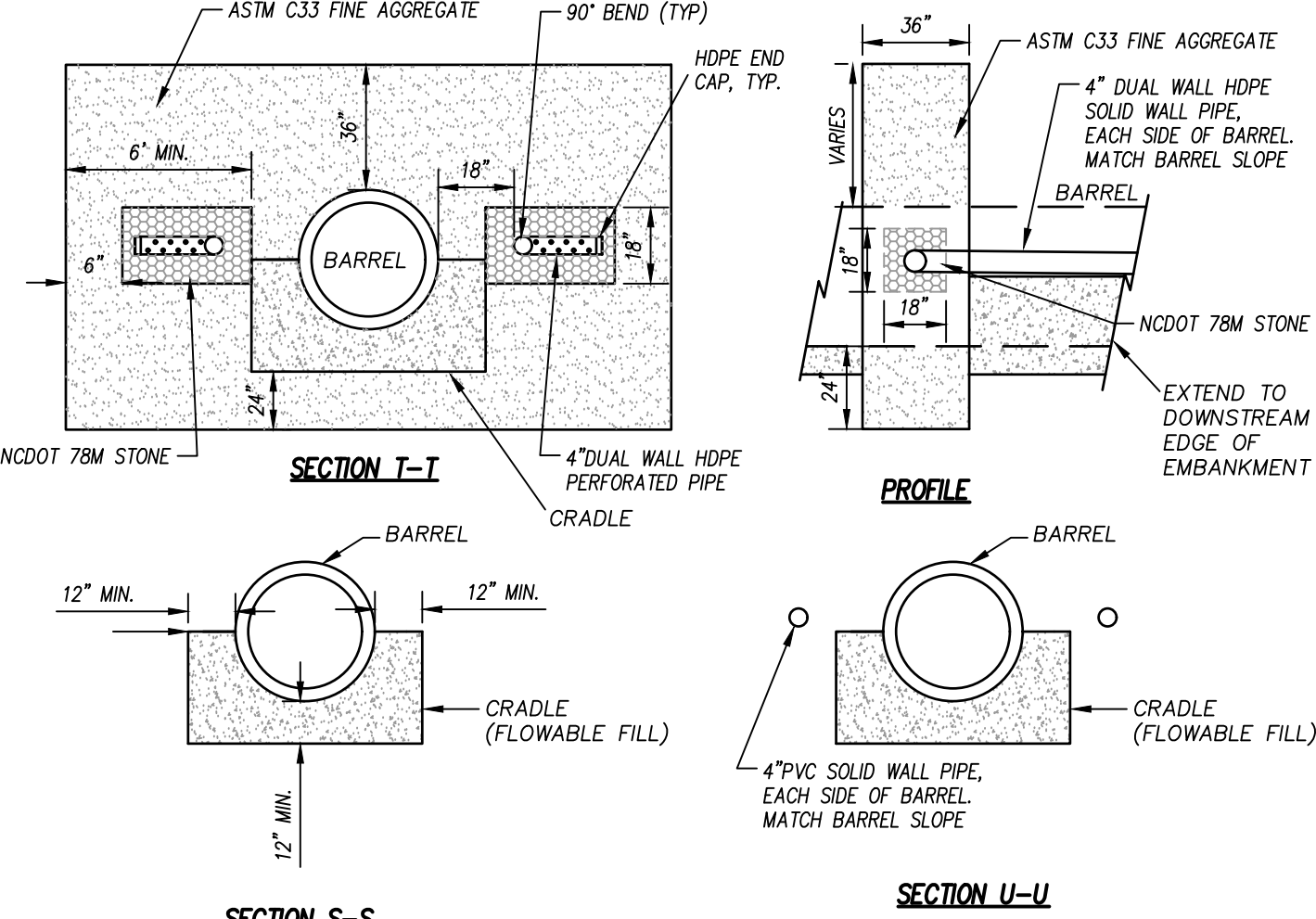
EMERGENCY SPILLWAY DETAIL
 SCALE: N.T.S.



TEMPORARY SKIMMER DETAIL
 SCALE: N.T.S.

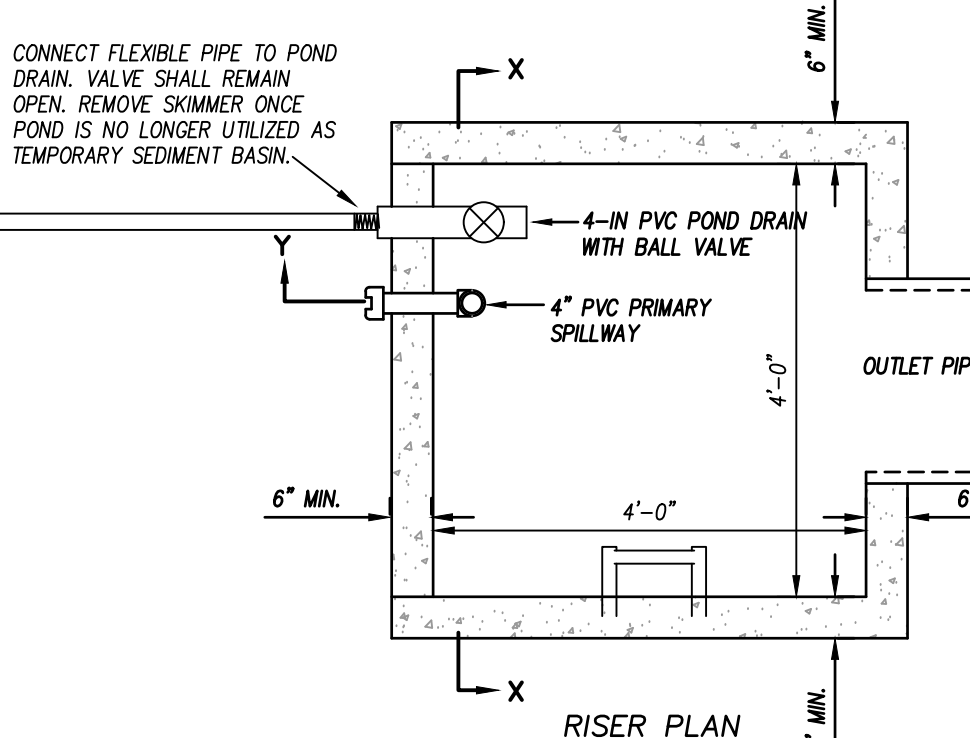


TRASH RACK DETAIL
 SCALE: N.T.S.



SEEPAGE DIAPHRAGM AND PIPE CRADLE DETAIL
 SCALE: N.T.S.

- PERFORATED PIPE & AGGREGATE NOTES
- 4-IN PERFORATED PIPE SHALL HAVE ASSTO TYPE II PATTERN WITH MAXIMUM SLOT WIDTH OF 0.125-IN AND SLOT LENGTH OF 0.875-IN.
 - AT LEAST 9-IN OF ASTM C33 FINE AGGREGATE SHOULD BE USED TO SEPARATE THE NCDOT 78M STONE FROM THE COMPACTED SOIL EMBANKMENT.
 - FORMWORK SHALL BE USED DURING COARSE AGGREGATE PLACEMENT TO PREVENT MIXING OF FINE AND COARSE AGGREGATES.
 - COMPACT AGGREGATE IN MAX. 12-IN LIFTS WITH 2 PASSES OF VIBRATORY PLATE TAMP PER LIFT.
 - TOE DRAIN WILL OUTLET AT FLARED END SECTION OF POND BARREL.
 - INSTALL AGRIDRAIN 4" STAINLESS STEEL RAIL GUARD AT TOW DRAIN OUTLETS.



RISER PLAN

- PRECAST CONCRETE OUTLET RISER:
- ASTM C-478, PRECAST, REINFORCED CONCRETE WITH SOLID WALLS (NOT WAFFLE). ALTERNATIVE BRICK OR CAST-IN-PLACE ALLOWED WITH APPROVAL OF SHOP DRAWINGS.
 - ALL JOINTS AND PENETRATIONS TO BE ASTM C-1107, NON-SHRINK, HYDRAULIC-CEMENT GROUT.
 - STEPS SHALL BE INSTALLED AT 16" O.C.
 - BASE SLAB SHALL BE 6-IN MIN. THICKNESS WITH 4-IN MIN. EXTENDED BASE. EXPOSED EXTERIOR SURFACES OF RISER SHALL BE PARGE-COATED AND SANDED FOR A SMOOTH AND CONSISTENT FINISH.
 - ALL STEEL FOR TRASH RACK SHALL BE HOT-DIPPED GALVANIZED STEEL OR ALUMINUM.
 - ANCHORS SHALL BE STAINLESS STEEL.
 - RODS SHALL BE #4 BARS MINIMUM SPACED WITH 4"-6" OPENINGS.

- NOTES
- WET POND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
 - LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
 - PLANTINGS TO BE GROUPED BY SPECIES IN QUANTITIES OF 40 OR MORE PER GROUPING.
 - SKETCH PLAN OF PLANT LOCATIONS TO BE PROVIDED TO LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF WET POND IMMEDIATELY AFTER EACH AREA IS PLANTED. MAINTENANCE SHALL CONTINUE UNTIL COMPLETION OF THE 12 MONTH WARRANTY PERIOD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

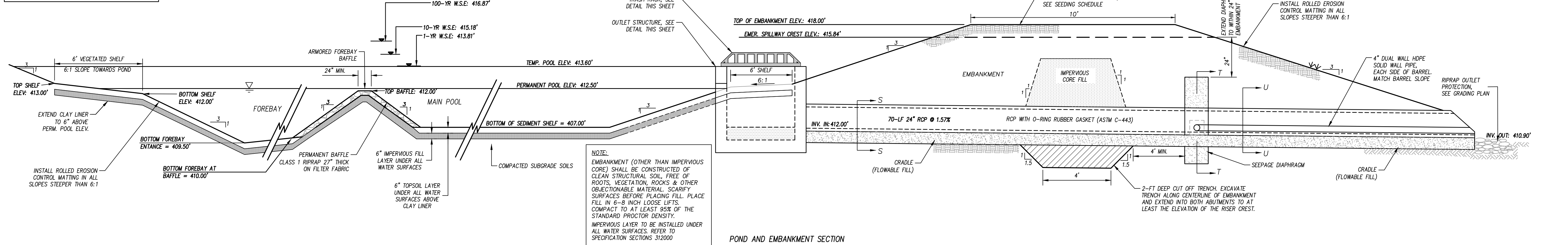
- TEMP. SEDIMENT BASIN MAINT. NOTES
- INSPECT DEVICE AFTER EACH RAINFALL EVENT. REMOVE SEDIMENT WHEN SEDIMENT REACHES A DEPTH OF NO MORE THAN ONE-HALF THE HEIGHT OF THE RISER. REPAIR BAFFLES IF THEY ARE DAMAGED.
 - PULL SKIMMER TO SIDE OF BASIN WITH ROPE AND INSPECT REGULARLY. KEEP SKIMMER HEAD, ORIFICE AND PIPE FREE OF DEBRIS. REMOVE SEDIMENT FROM BENEATH SKIMMER AND ENSURE VEGETATION DOES NOT INTERFERE WITH SKIMMER OPERATION.
 - CHECK FABRIC-LINED SPILLWAY FOR DAMAGE AND MAKE ANY REPAIRS USING FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY.

- CONSTRUCTION SEQUENCE
- FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF WET POND DRAINAGE BASIN, PERFORM THE FOLLOWING:
 - SCHEDULE THE FOLLOWING WORK TO COINCIDE WITH AN EXTENDED FORECAST OF NO PRECIPITATION SUCH THAT ALL WORK CAN BE COMPLETED DURING A PERIOD OF DRY WEATHER.
 - REMOVE ALL ACCUMULATED SEDIMENT. CONFIRM NEED FOR CLAY LINER WITH ARCHITECT PRIOR TO PROCEEDING.
 - IF ADDITIONAL DE-WATERING IS NEEDED BELOW DRAIN/SKIMMER ELEVATION, UTILIZE A MUD PUMP WITH FLOATING SUCTION INLET AND DISCHARGE REMAINING WATER THROUGH A SILT BAG LOCATED OUTSIDE OF THE BASIN (SEE EROSION CONTROL PLAN). MONITOR PUMPING TO ENSURE FLOW DOES NOT EXCEED THE CAPACITY OF FILTER BAG.
 - GRADE WET POND INTERIOR TO FINAL SUBGRADE ELEVATIONS.
 - INSTALL AND COMPACT CLAY LINER IF NEEDED.
 - INSTALL ARMORED SECTIONS OF FOREBAY WEIRS.
 - INSTALL AND FINE GRADE TOPSOIL TO FINISH GRADES.
 - CORE-DRILL AND INSTALL PVC PRIMARY SPILLWAY PIPE. DO NOT GLUE JOINTS OF PIPE.
 - CLOSE DRAIN VALVE AND ALLOW WET POND TO FILL WITH RUNOFF TO PRIMARY SPILLWAY ELEVATION. SURVEY EDGES OF NORMAL WATER LEVEL POOL AND COMPARE TO LIMITS SHOWN ON PLAN. ADJUST FINISH GRADES AS NECESSARY TO MATCH PLAN.
 - ONCE FINISH GRADES ARE CORRECT AND CONFIRMED, DRAIN WET POND AND PERFORM DETAILED TOPOGRAPHIC SURVEY.
 - FOLLOWING APPROVAL OF SURVEY, INSTALL PLANT MATERIAL AND SOD ON PERIMETER SLOPES.
 - REMOVE TEMP. SKIMMER AND CLOSE DRAIN VALVE. ALLOW WET POND TO FILL WITH RUNOFF.

- SCM CONVERSION SEQUENCE
- PRIOR TO CONVERSION OF TEMPORARY SKIMMER BASIN TO PERMANENT SCM, APPROVAL MUST BE OBTAINED FROM NCDOT. CONTACT NCDOT TO SCHEDULE A SITE MEETING AND RECEIVE DEWATERING NOTIFICATIONS.
 - AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDOT-DEMUR CONTACT PERSON AND COPY TOWN OF ROLESVILLE STORMWATER MANAGER. THE EMAIL SHALL INCLUDE EROSION CONTROL MEASURES AS REQUIRED.
 - AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDOT THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, TEMPORARY SEDIMENT BASIN AND ASSOCIATED TEMPORARY DIVERSION DITCHES MAY BE REMOVED. INSTALL PERIMETER SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED.
 - PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
 - INSTALL VELOCITY DISPATER AND/OR LEVEL SPREADERS AS REQUIRED BY THE EROSION CONTROL PLAN.
 - WHEN SITE IS FULLY STABILIZED, CALL NCDOT EROSION CONTROL INSPECTOR FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

- TEMPORARY SEDIMENT BASIN NOTES
- THE AREA OF THE NEW WET POND SHALL BE UTILIZED AS A TEMP. SEDIMENT BASIN DURING CONSTRUCTION.
 - ATTACH A TEMP. SKIMMER TO THE OUTLET RISER DRAIN. GRADE THE BASIN TO THE TEMP. CONTOURS SHOWN ON THE EROSION CONTROL PLAN.
 - INSPECT SKIMMER DEVICE WEEKLY AND AFTER EACH RAINFALL EVENT. REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT REACHES A DEPTH OF NO MORE THAN ONE-HALF THE HEIGHT OF THE RISER. REPAIR BAFFLES IF DAMAGED.
 - PULL SKIMMER TO SIDE OF BASIN WITH ROPE AND INSPECT REGULARLY. KEEP SKIMMER HEAD, ORIFICE AND PIPE FREE OF DEBRIS AT ALL TIMES. REMOVE SEDIMENT FROM BENEATH SKIMMER AND ENSURE VEGETATION DOES NOT INTERFERE WITH SKIMMER OPERATION.
 - PROVIDE PAINT MARK ON RISER AT 12" HEIGHT. CLEAN AND REPAIR ONCE SEDIMENT REACHES MARK.
 - INSTALL ALL COMPONENTS OF POND EMBANKMENT, OUTLET STRUCTURE, SKIMMER, EMERGENCY SPILLWAY, ETC. (UNLESS NOTED) PRIOR TO BEGINNING CLEARING OPERATIONS.
 - INSTALL TEMP. BAFFLES AND CHANNEL REINFORCING IN THE BASIN. REFER TO C7.03 FOR BAFFLE AND REINFORCING DETAILS.
 - PROVIDE GROUND COVER/TEMPORARY SEEDING ON BOTTOM OF TEMPORARY BASINS. SEE SEEDING SCHEDULE ON SHEET C7.05.

- CLAY LINER
- CONTRACTOR SHALL FURNISH AND INSTALL A 6-IN THICK LAYER OF COMPACTED CLAY BENEATH THE WET POND TOPSOIL.
 - SUBGRADE OF WET POND MUST BE OVER-EXCAVATED TO ACCOMMODATE CLAY LAYER.
 - COMPACTED CLAY SHALL BE TESTED IN PLACE AND SHALL HAVE A PERMEABILITY NO GREATER THAN 0.01 IN/HR.
- AS-BUILT SURVEY REQUIREMENTS
- CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING WET DETENTION POND AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:
 - OUTLET STRUCTURE TOPS AND INVERTS, ORIFICE DIAMETERS, BARREL PIPE SIZES AND INVERTS AND STRUCTURE DIMENSIONS.
 - EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.
 - TOPOGRAPHY THAT EXTENDS 20 FEET OUTSIDE LIMITS OF POND WATER SURFACE AND EMBANKMENT.



SCM "A" WET POND DETAIL
 N.T.S.



PRELIMINARY PLANS
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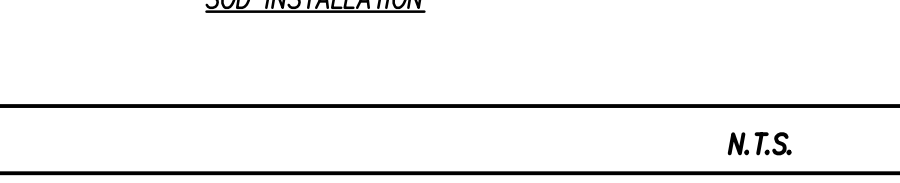
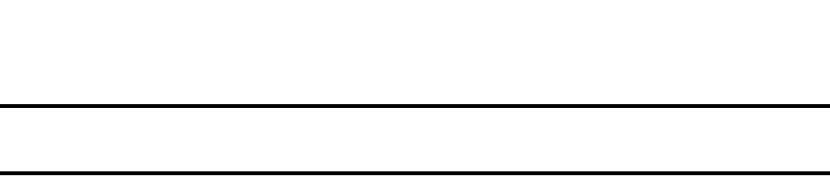
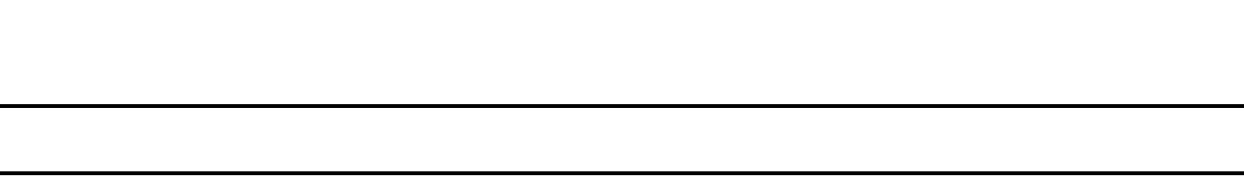
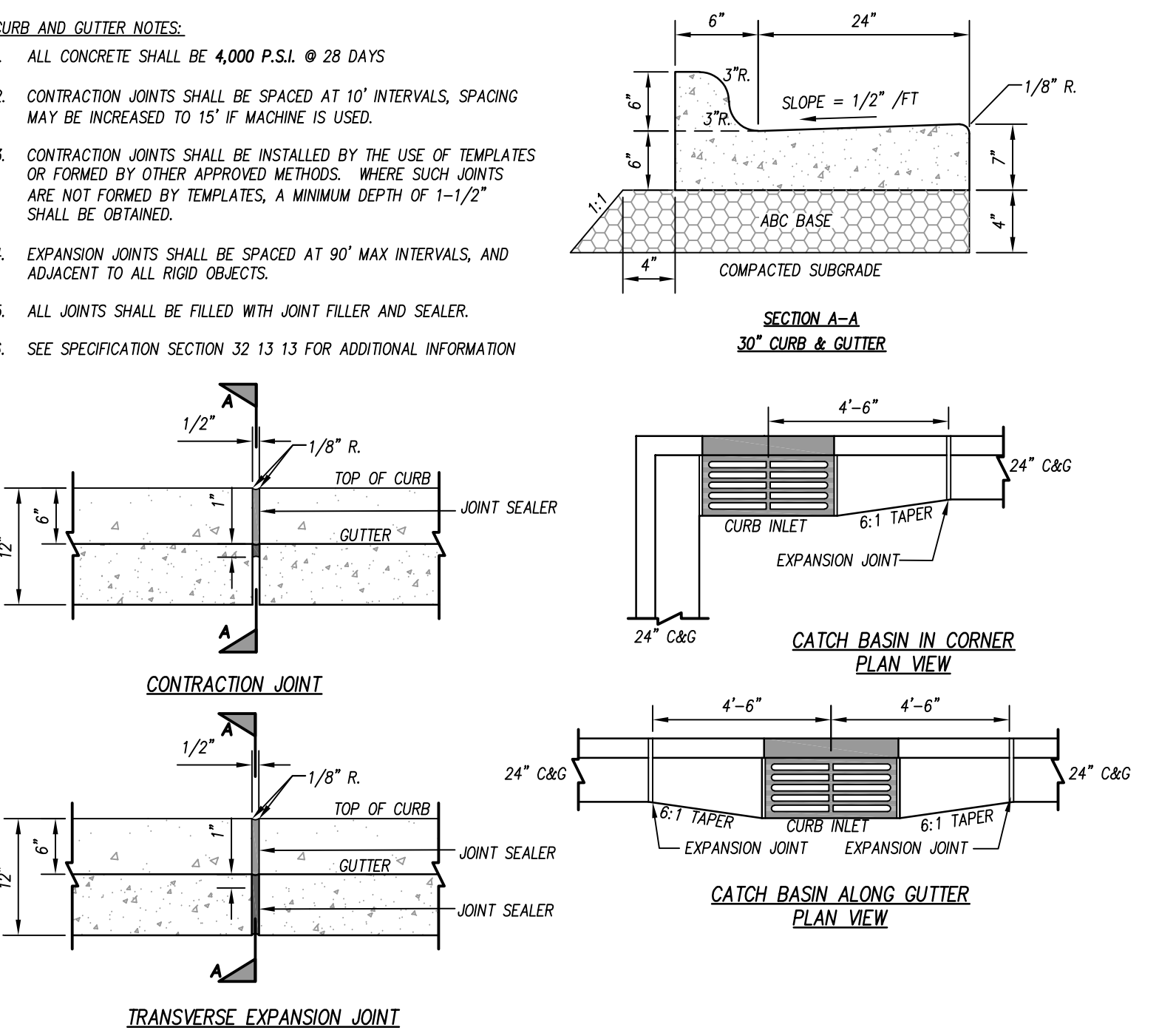
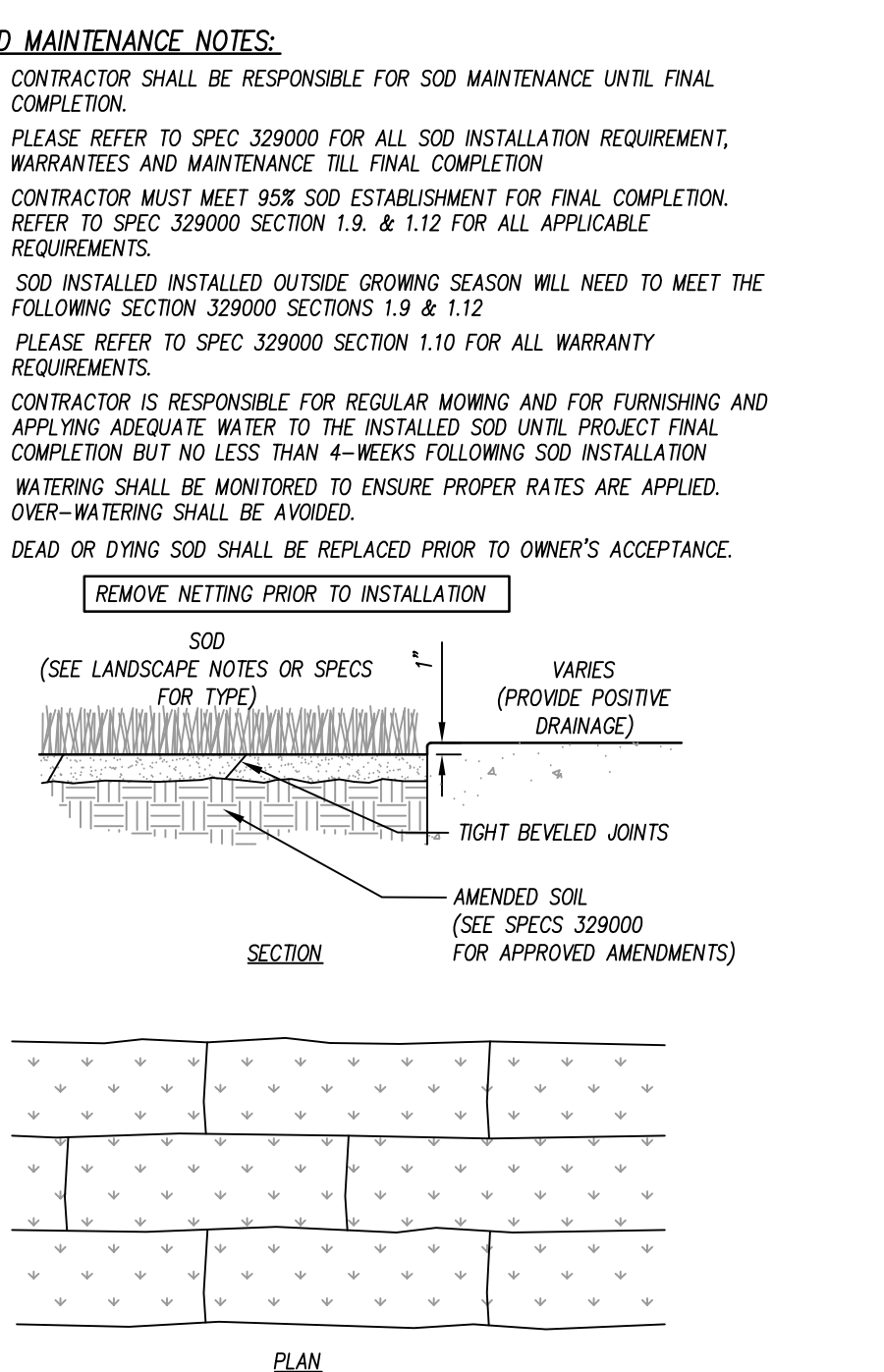
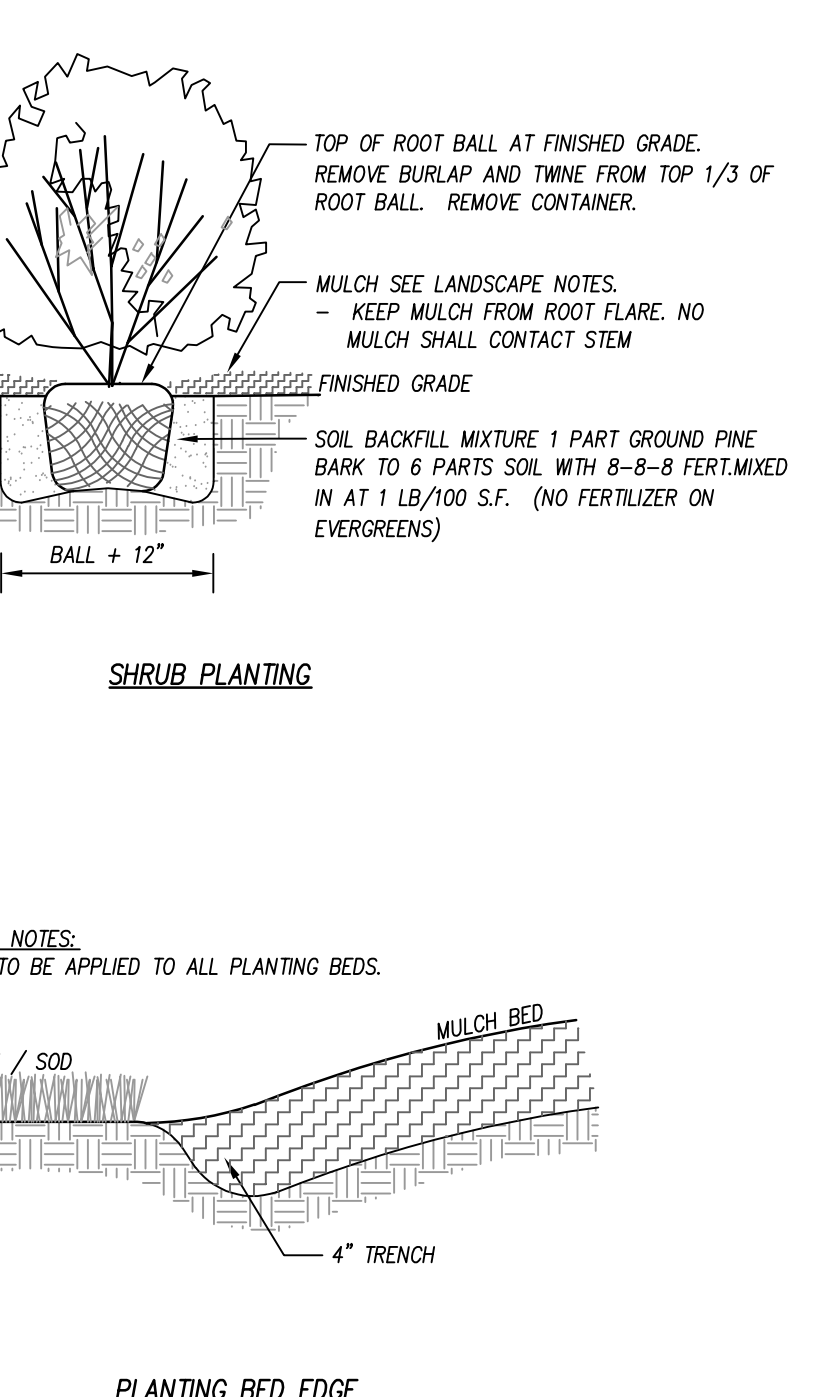
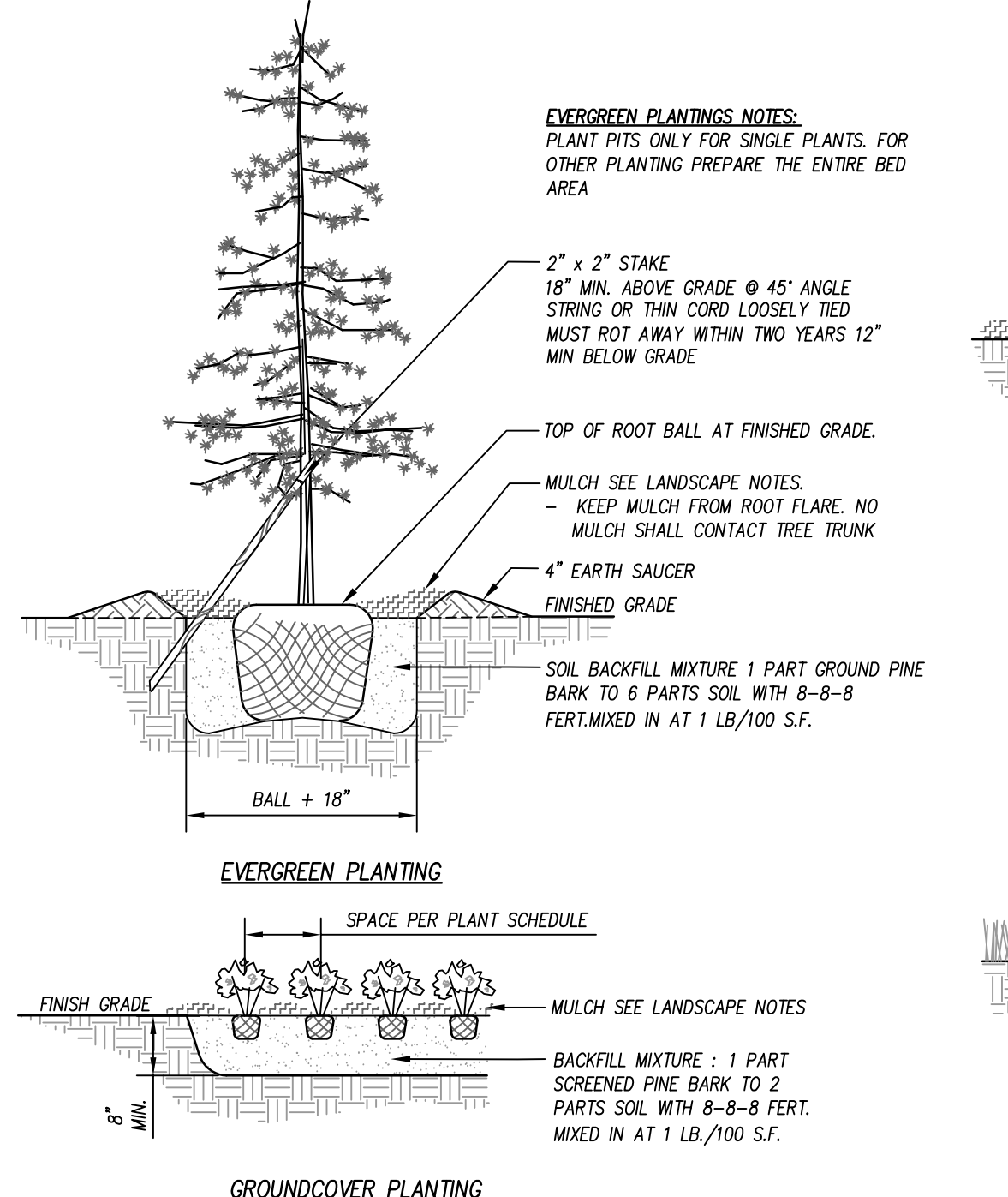
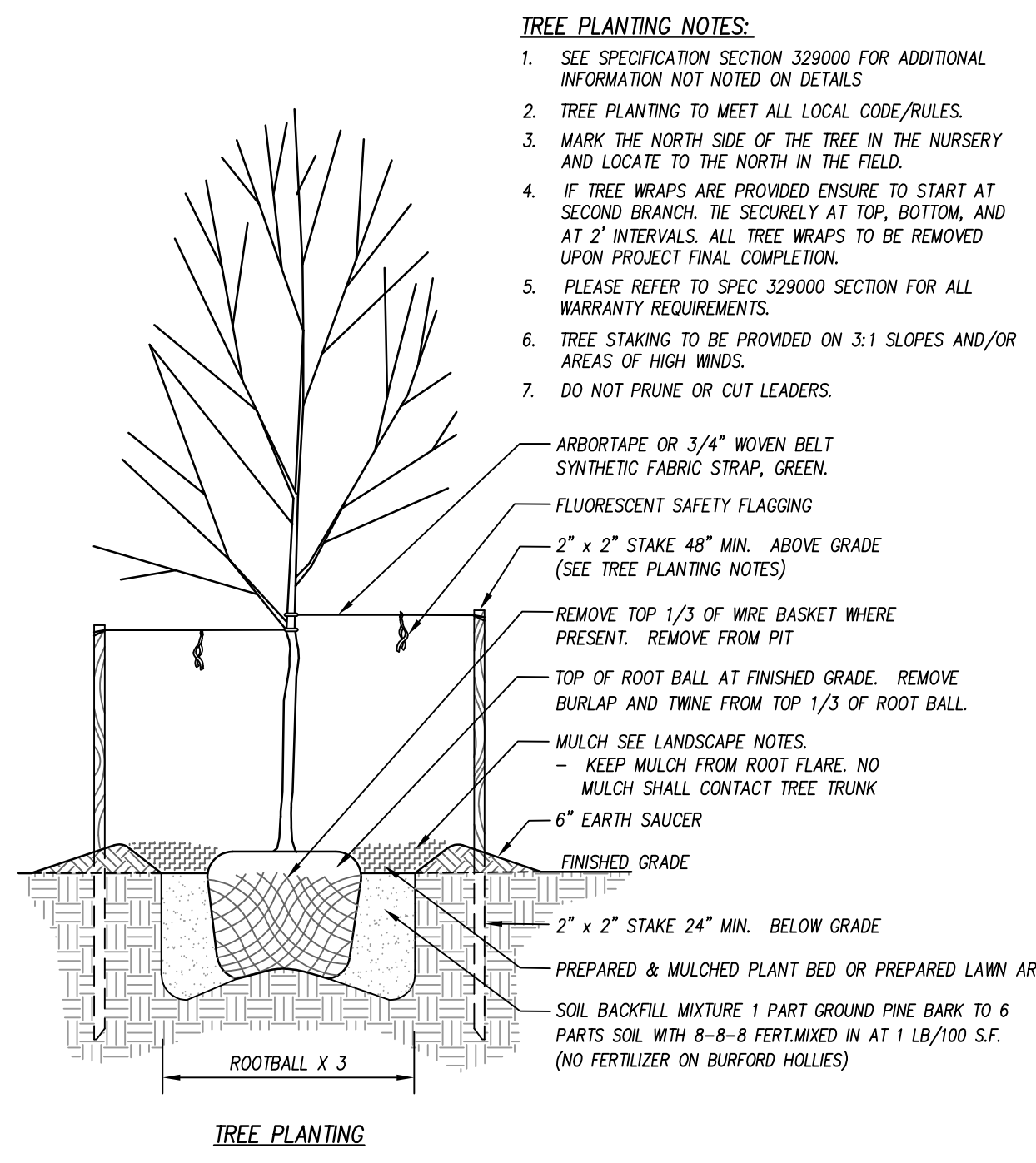
Rolesville Town Campus
 Infrastructure Package
 408 EAST YOUNG STREET, ROLESVILLE, NC
 PERMIT SET
 Town of Rolesville
 CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
 DRAWN BY: PH, LM
 DATE: 22-JAN-2026
 PROJECT NO: 22-205

EROSION CONTROL
 DETAILS

C-7.06



LANDSCAPE GENERAL NOTES

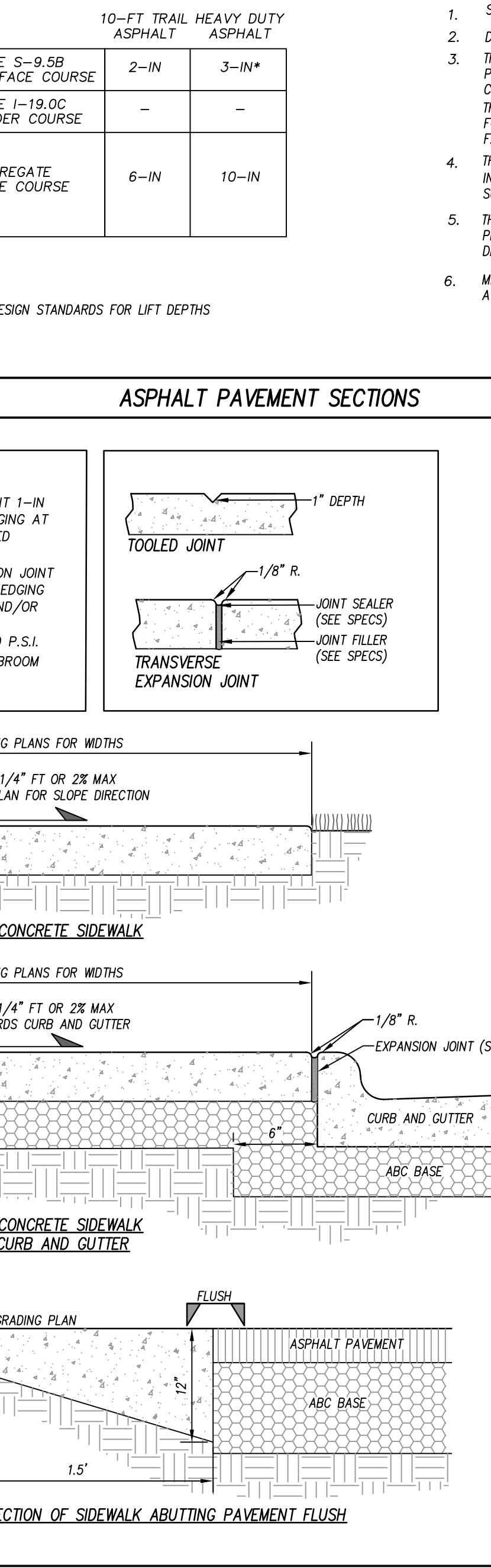
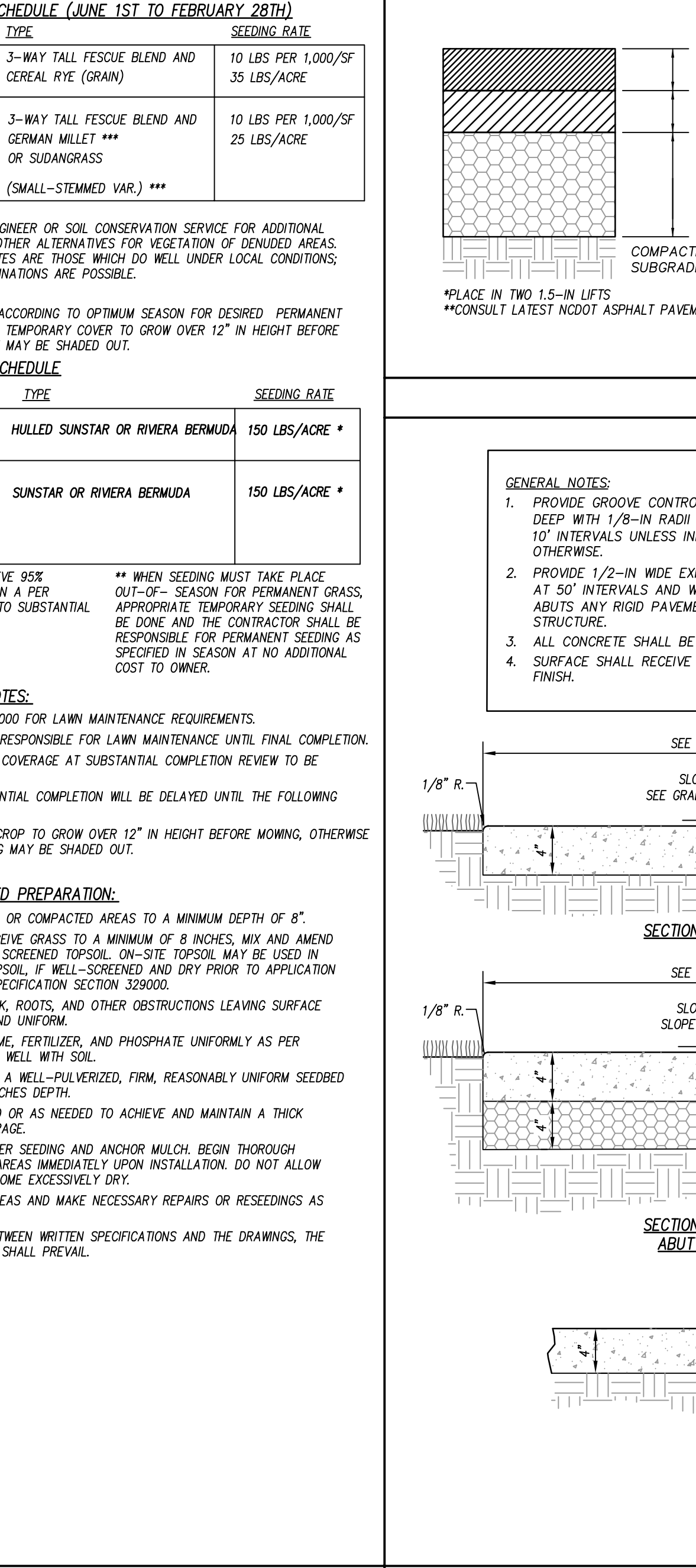
- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4-1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN OF DYED BROWN DESIGNER (PALLETIZED) MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS. BUFFER PLANTINGS MAY USE TRIPLE SHREDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
9.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
9.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
9.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
9.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS ISSUED. THE FENCES SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL ESTABLISHMENT. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEED/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 85% COVERAGE AT FINAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTION.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING, IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL COMPLETION, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- GENERAL LAWN AREAS SHALL BE SEED WITH RIVERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TUF BERMUDA. 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LIMITS.
- ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

LIME AND FERTILIZATION SCHEDULE:

- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 50 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION
- CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

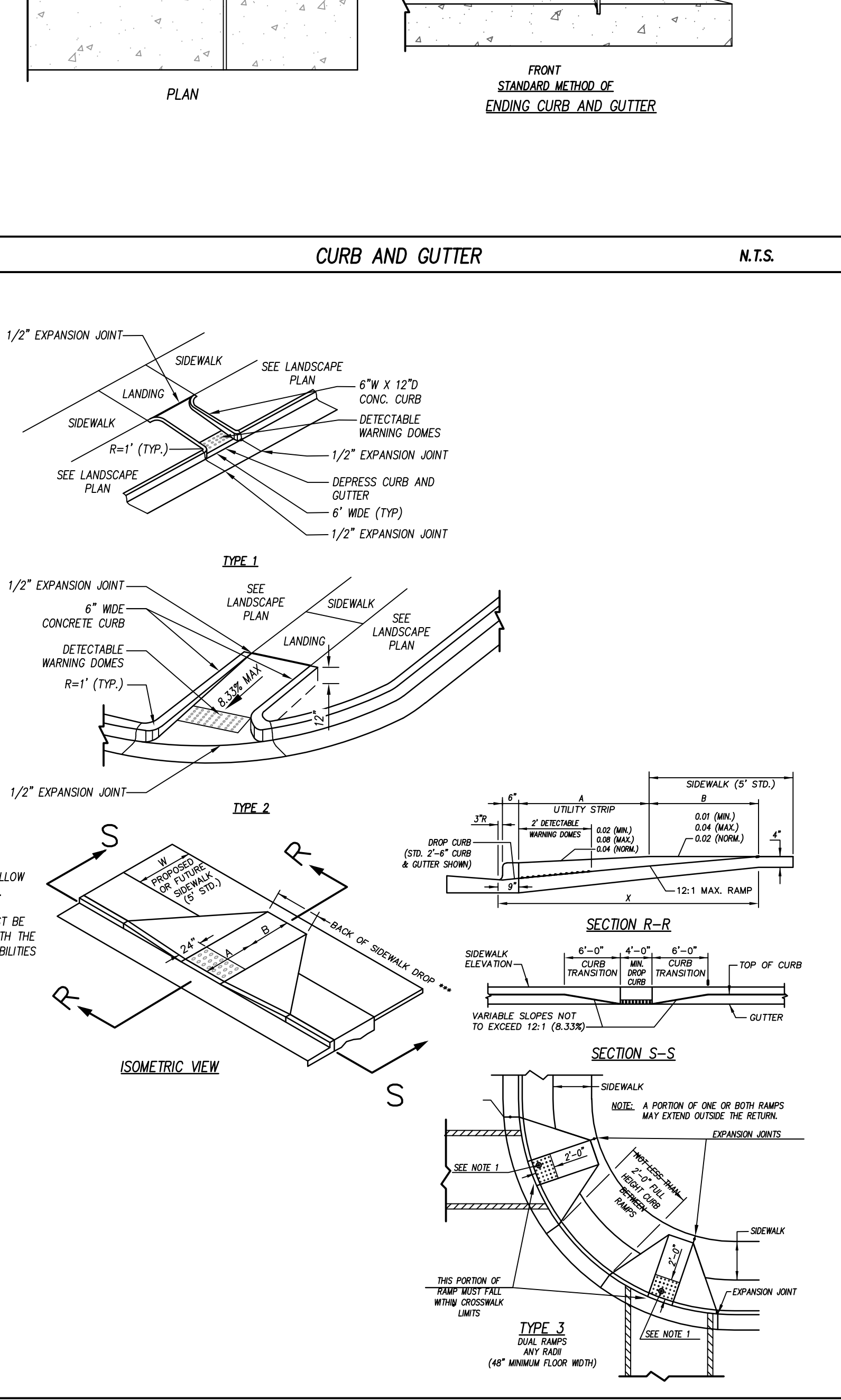
SURFACE STABILIZATION REQUIREMENTS:

- DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE (2 TONS LB/AC) GRAIN STRAW OVER SEEDED AREAS AND ANCHOR STRAW GRIPPING WITH HAND OR MECHANICAL CRUMPER @ MAX. SPACING. ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
- SEE MCDOT GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.



LANDSCAPE GENERAL NOTES

- SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.
- DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.
- 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 REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS 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.
- MILL EXISTING PAVEMENT TO 1-1/2" DEPTH MAX. (8-FT WIDE) TO ALLOW FOR A SMOOTH TRANSITION WHERE OVERLAY ABUTS EXISTING PAVEMENT GRADE.



PRELIMINARY PLANS
FOR REVIEW ONLY

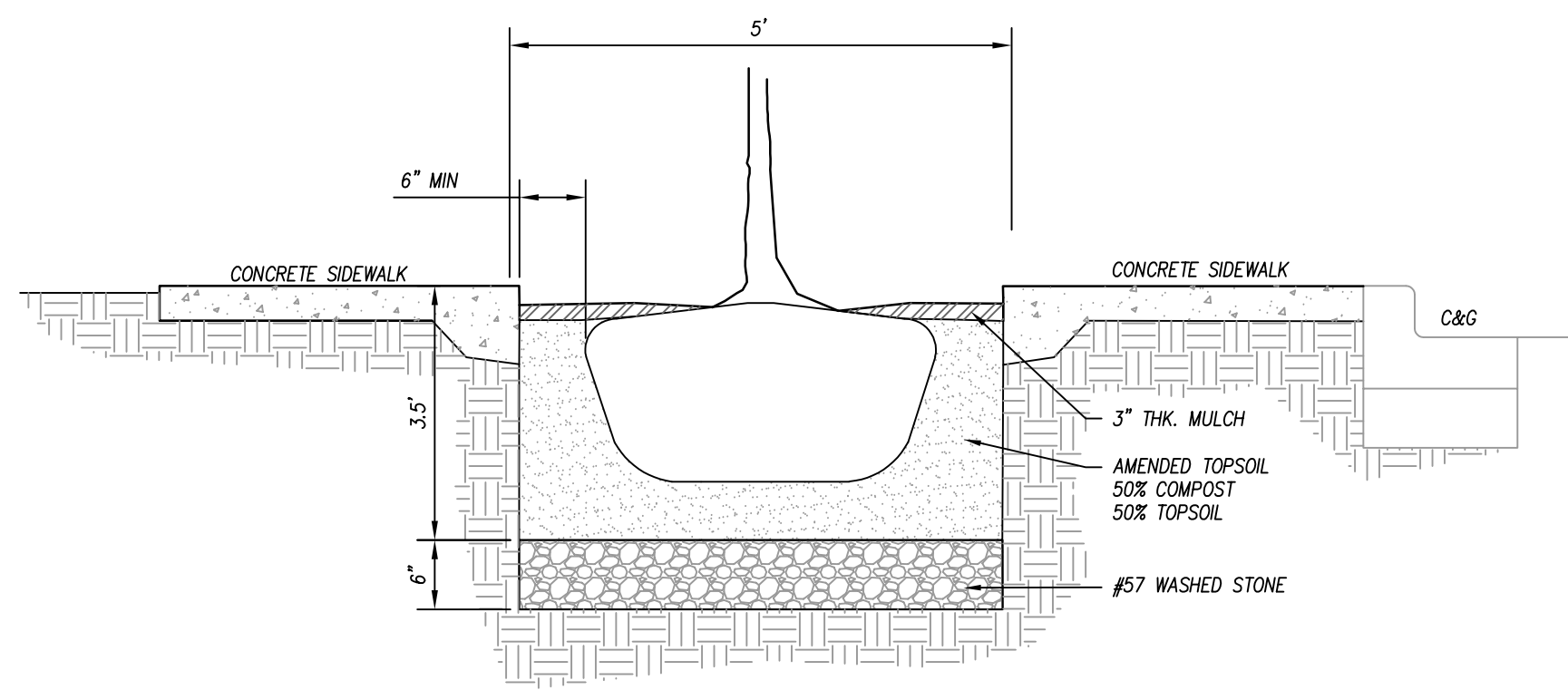
ROLESVILLE TOWN CAMPUS
INFRASTRUCTURE PACKAGE
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
TOWN OF ROLESVILLE
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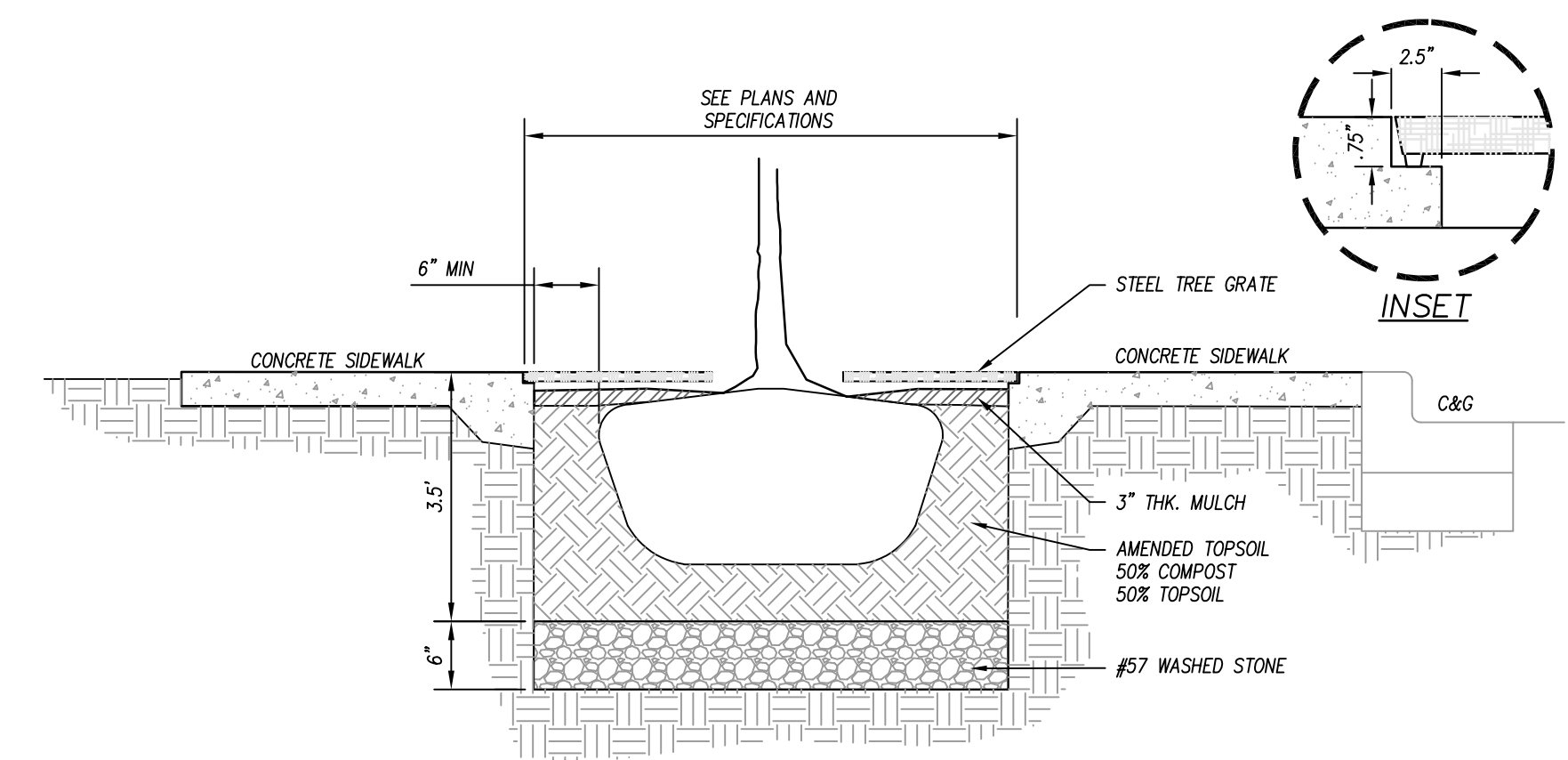
SITE DETAILS

C-8.01

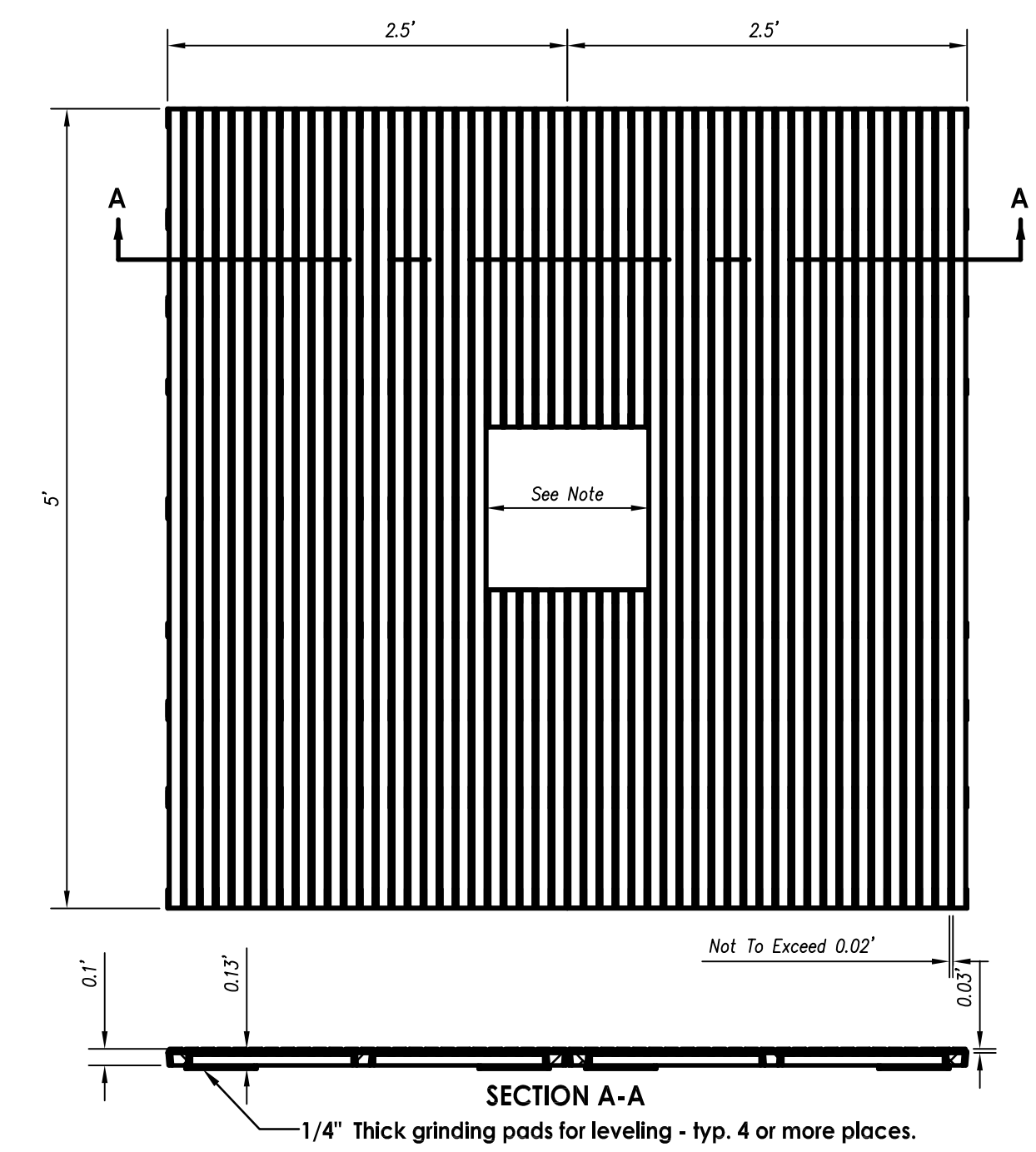
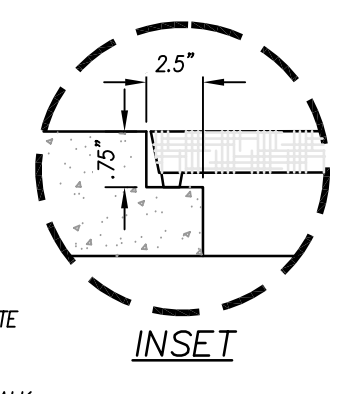


STREET TREE PLANTERS

N.T.S.



ADD ALTERNATE STREET TREE PLANTER WITH STEEL GRATE



60TGMET .SQ-Q
METRO
Tree Grate

48" x 48" Tree grate in two sections for pedestrian loads only. Two Lightwells with bolted covers per grate.

1/2" Maximum slot opening For ADA compliance and pedestrian safety

Cast from 100% recycled gray iron or Aluminum or Brass alloy C854 Yellow brass

Tree opening: 12', 17', 22', 27'
Grates can be ordered with or later expanded to these openings. Please specify when ordering.

Finish: Unfinished or Black Dip, or Enamel paint, or Polyurethane paint, or Powder coat. Zinc undercoat available.

Specify finish and color
Use frame model: 4800F

Weights:
Iron = 296lb/ 134 kg
Aluminum = 105 lb/ 48 kg

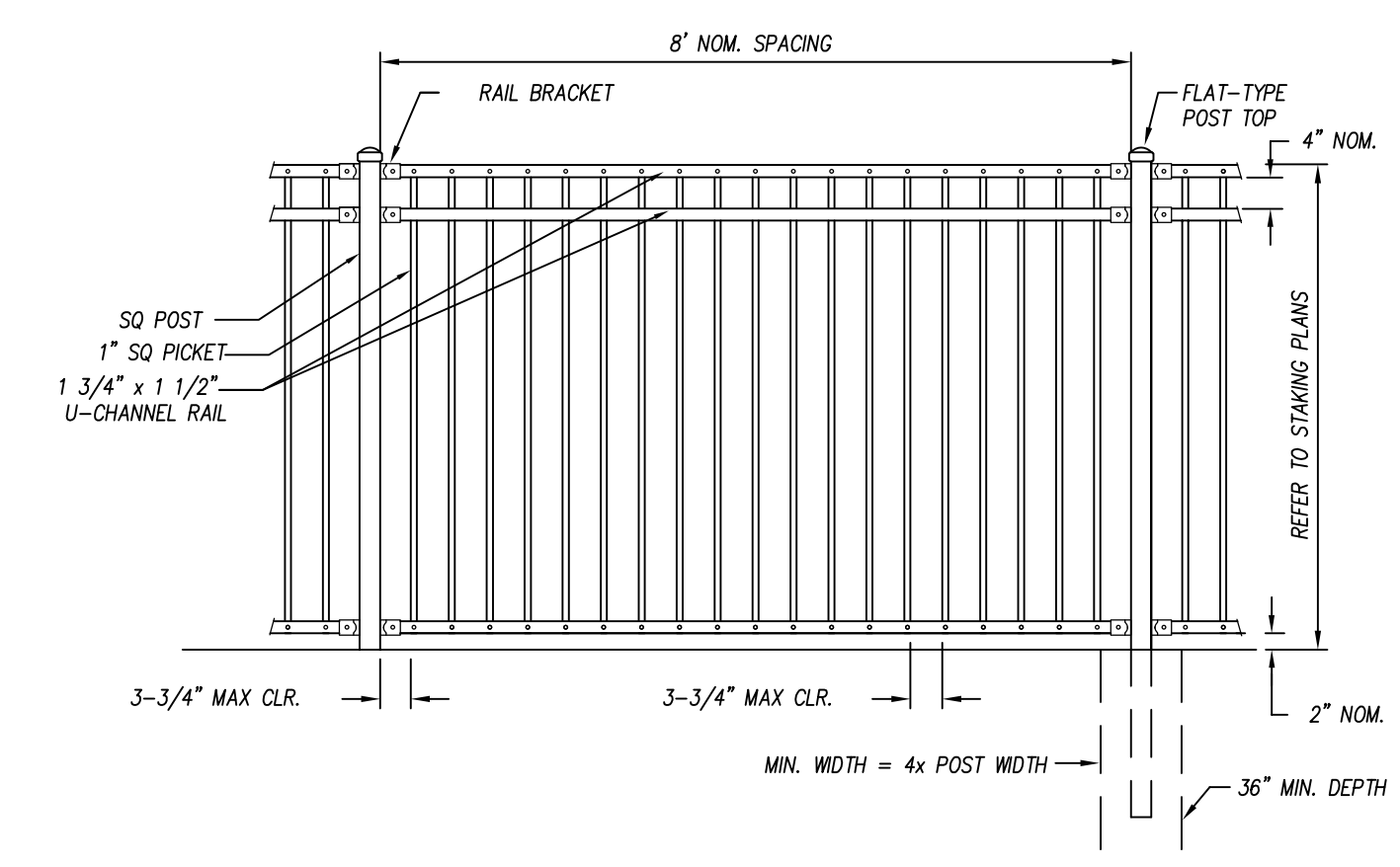
DO NOT SCALE DRAWING

IRONSMITH
41-701 Corporate Way # 3
Palm Desert, CA 92260
(800) 338-4765
(760) 776-5080 Fax

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PRELIMINARY PLANS
FOR REVIEW ONLY

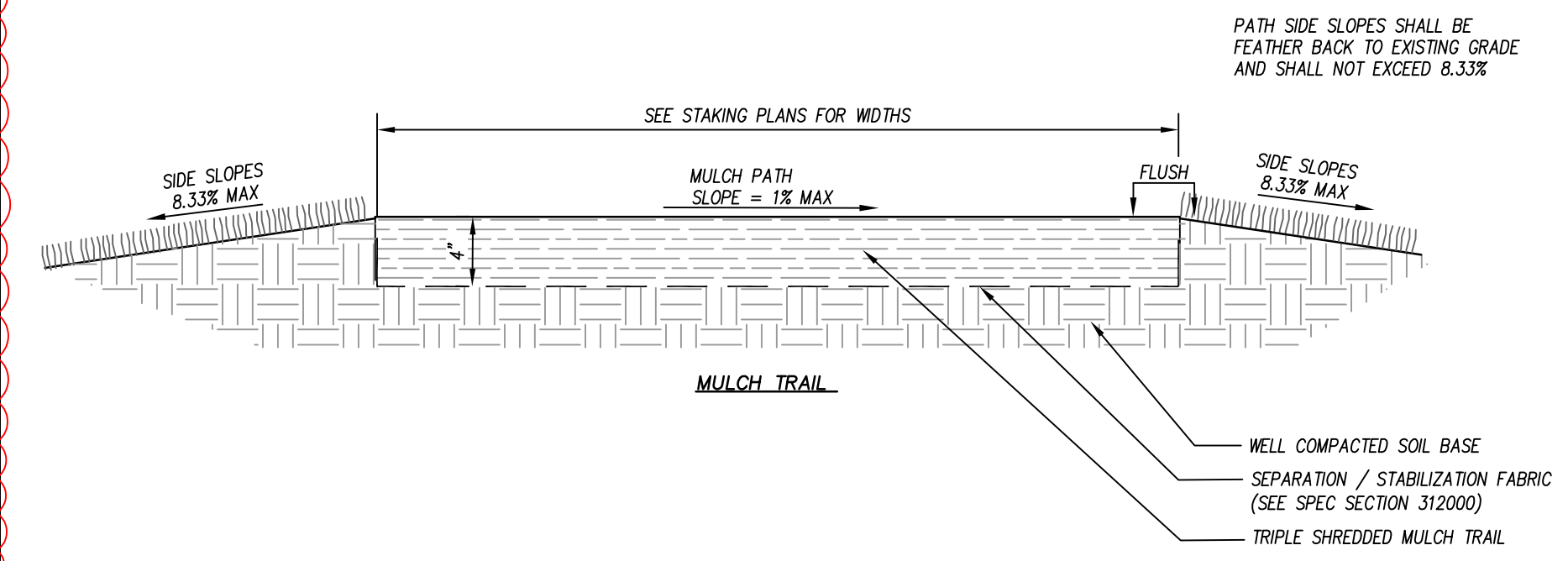


FENCE SECTION ELEVATION

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ORNAMENTAL FENCE

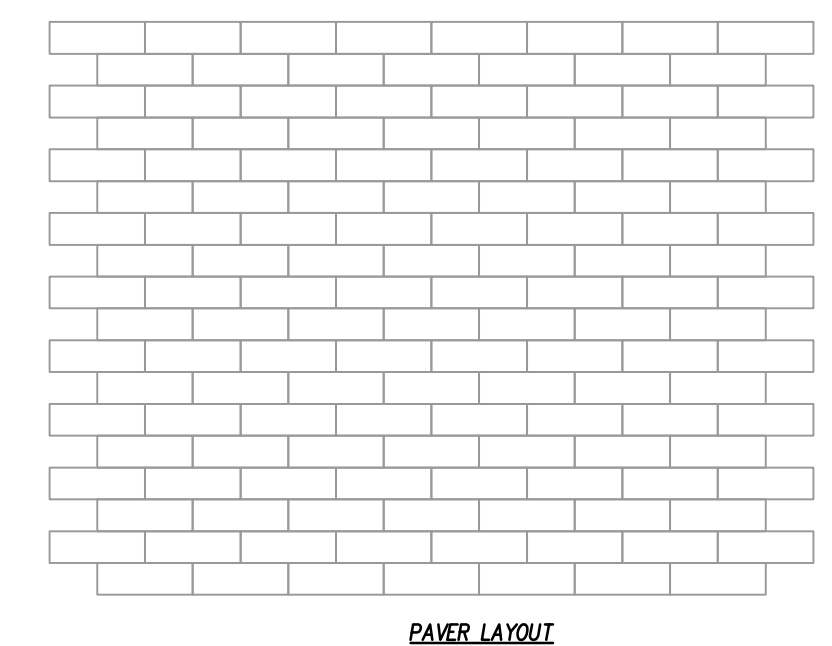
N.T.S.



MULCH TRAIL

N.T.S.

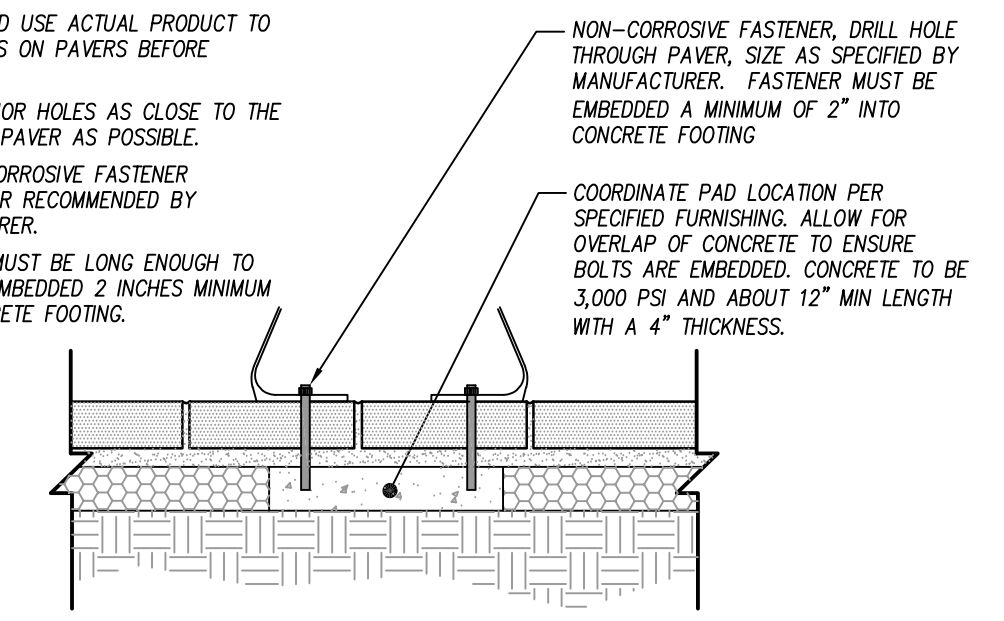
PAVER LEGEND
TYPE-1
48X13 PRECAST BRICK PAVER - COLOR TBD



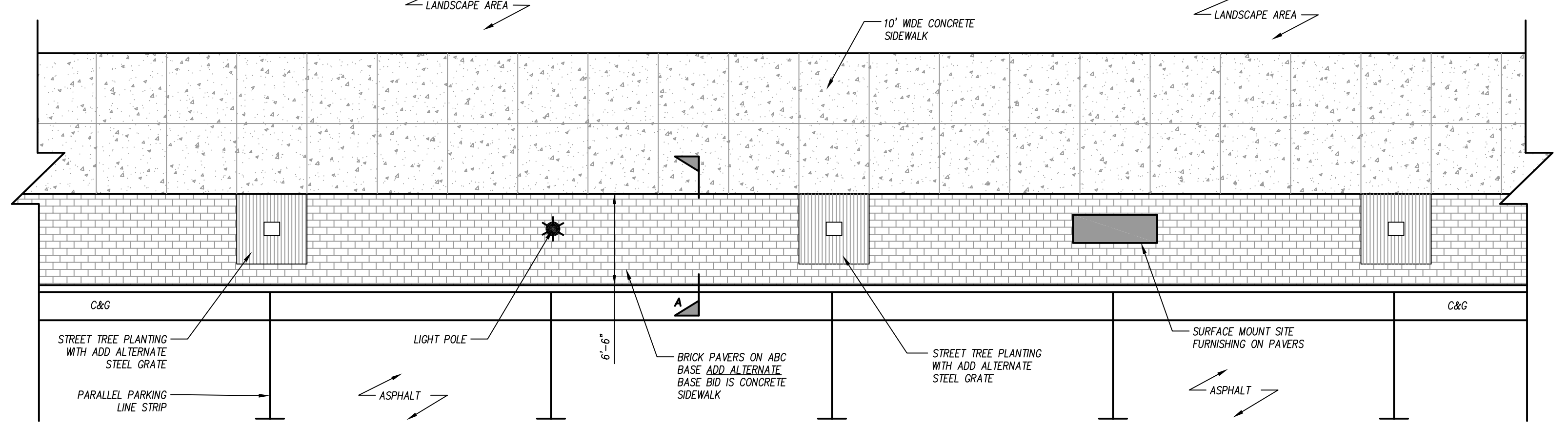
PAVER LAYOUT

NOTES:

1. RECEIVE AND USE ACTUAL PRODUCT TO MARK HOLES ON PAVERS BEFORE DRILLING.
2. ALIGN ANCHOR HOLES AS CLOSE TO THE CENTER OF PAVER AS POSSIBLE.
3. USE NON-CORROSIVE FASTENER PROVIDED OR RECOMMENDED BY MANUFACTURER.
4. FASTENER MUST BE LONG ENOUGH TO BE FULLY EMBEDDED 2 INCHES MINIMUM INTO CONCRETE FOOTING.



SURFACE MOUNTED SITE FURNISHING ON PAVERS



ADD ALTERNATE - PRECAST PAVERS

N.T.S.

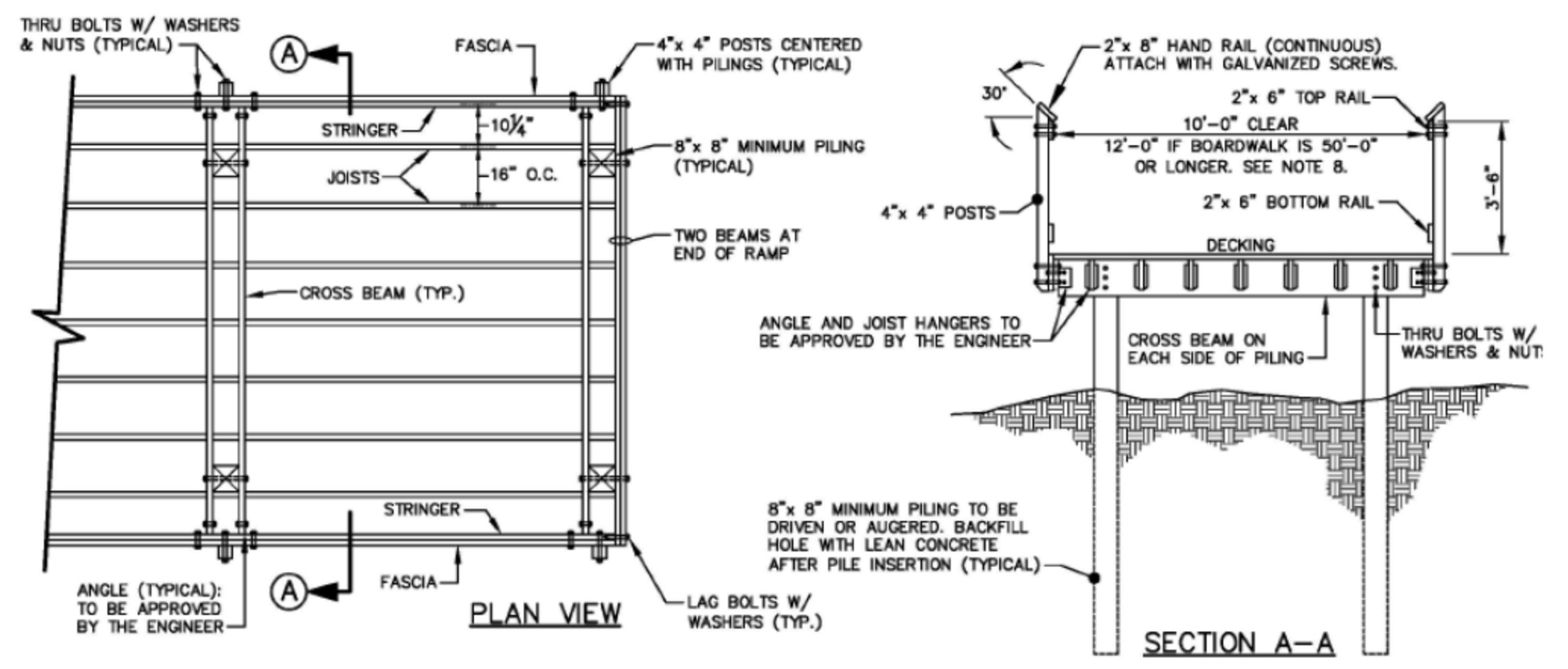
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

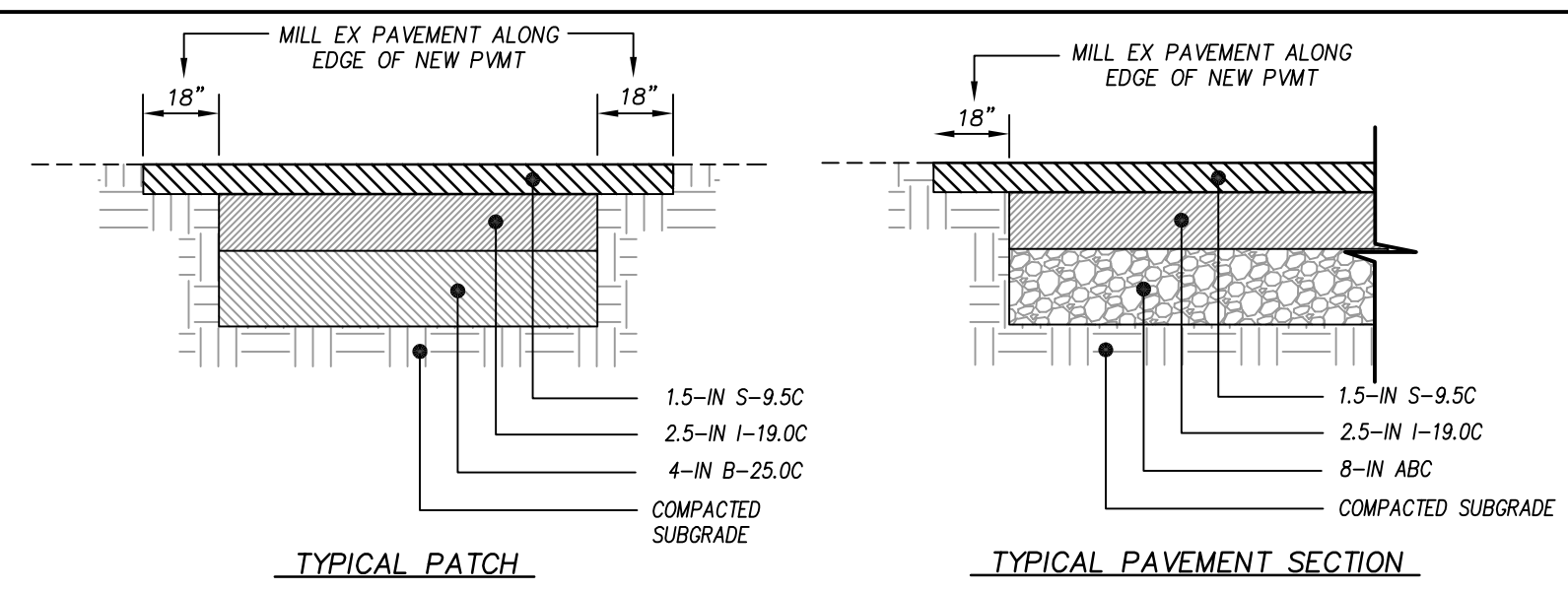
DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

SITE DETAILS

C-8.02



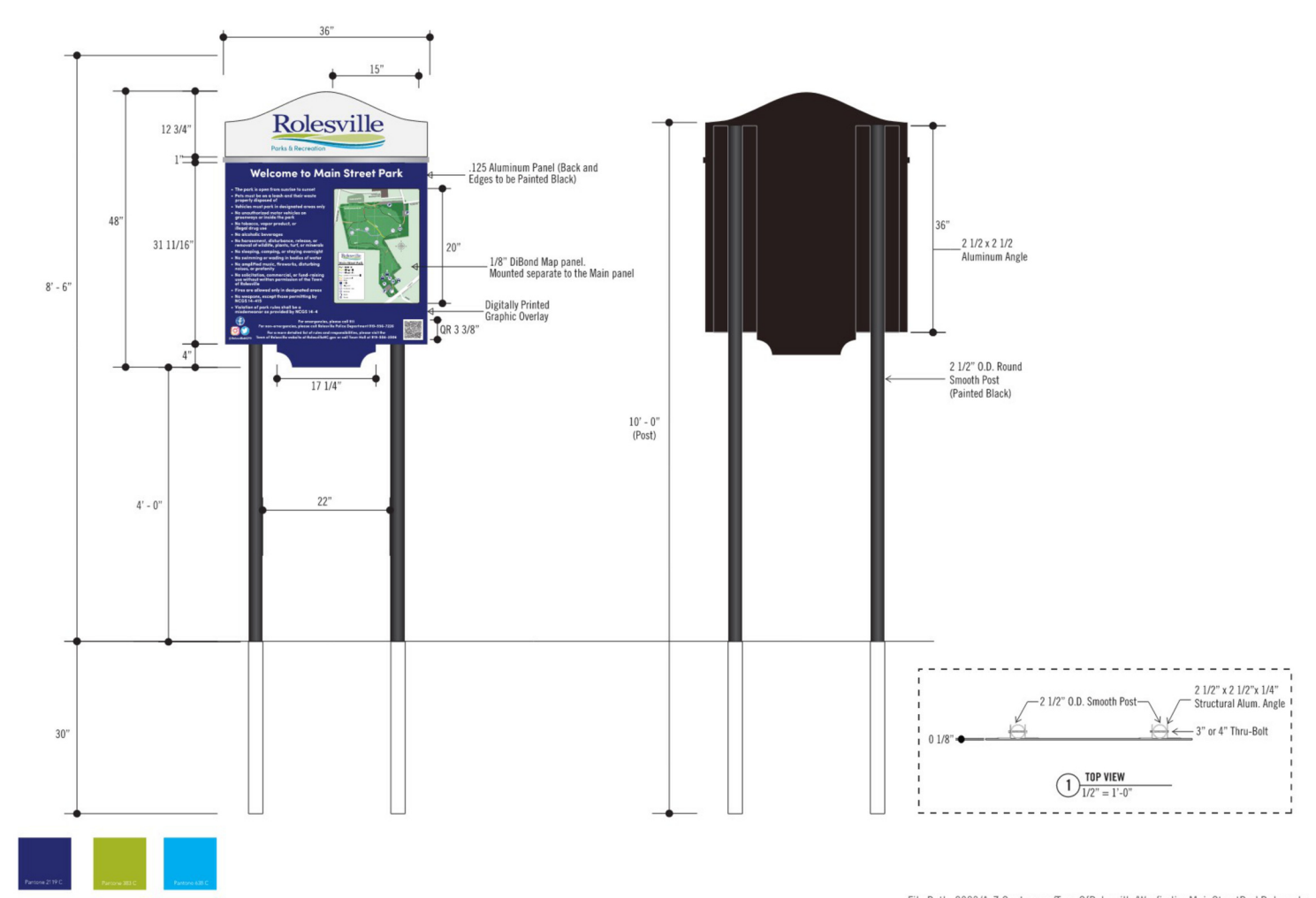
BOARDWALK DETAIL N.T.S.



ASPHALT PATCH N.T.S.

- NOTES:**
1. ASPHALT PATCH SECTION SHALL BE INSTALLED WHERE PAVEMENT WIDTH IS LESS THAN 6-FT.
 2. SEE EARTH MOVING AND ASPHALT PAVEMENT SPECIFICATIONS FOR PROOF-ROLLING, COMPACTION & TESTING REQUIREMENTS.
 3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
 5. 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.

PRELIMINARY PLANS
FOR REVIEW ONLY



SIGNS ETC.

4941 Clayton Ave.
Charlotte, NC 28217
P: 704.322.8888
F: 704.322.8776
signs@clhdesign.com

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Job No.:
Date: 1.2.23

Client: **Spencer Brewer**

Design: **BW**

Revisions:
1.24.23
1.24.23
1.26.23

**Town of Rolesville
Main Street Park**

Scale: 3/8"=1'-0"

Acct. No.:
Designer: **BW**

Revisions:
1.24.23
1.24.23
1.26.23

POST & SIGN ELEVATION
Final approval to be given by the client. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for obtaining all necessary permits and approvals.

Notes:
 Approved
 Approved in Field
 Needs a Revision

1.0



SIGNS ETC.

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Job No.:
Date: 1.2.23

Client: **Spencer Brewer**

Design: **BW**

Revisions:
1.24.23
1.24.23
1.26.23

**Town of Rolesville
Main Street Park**

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

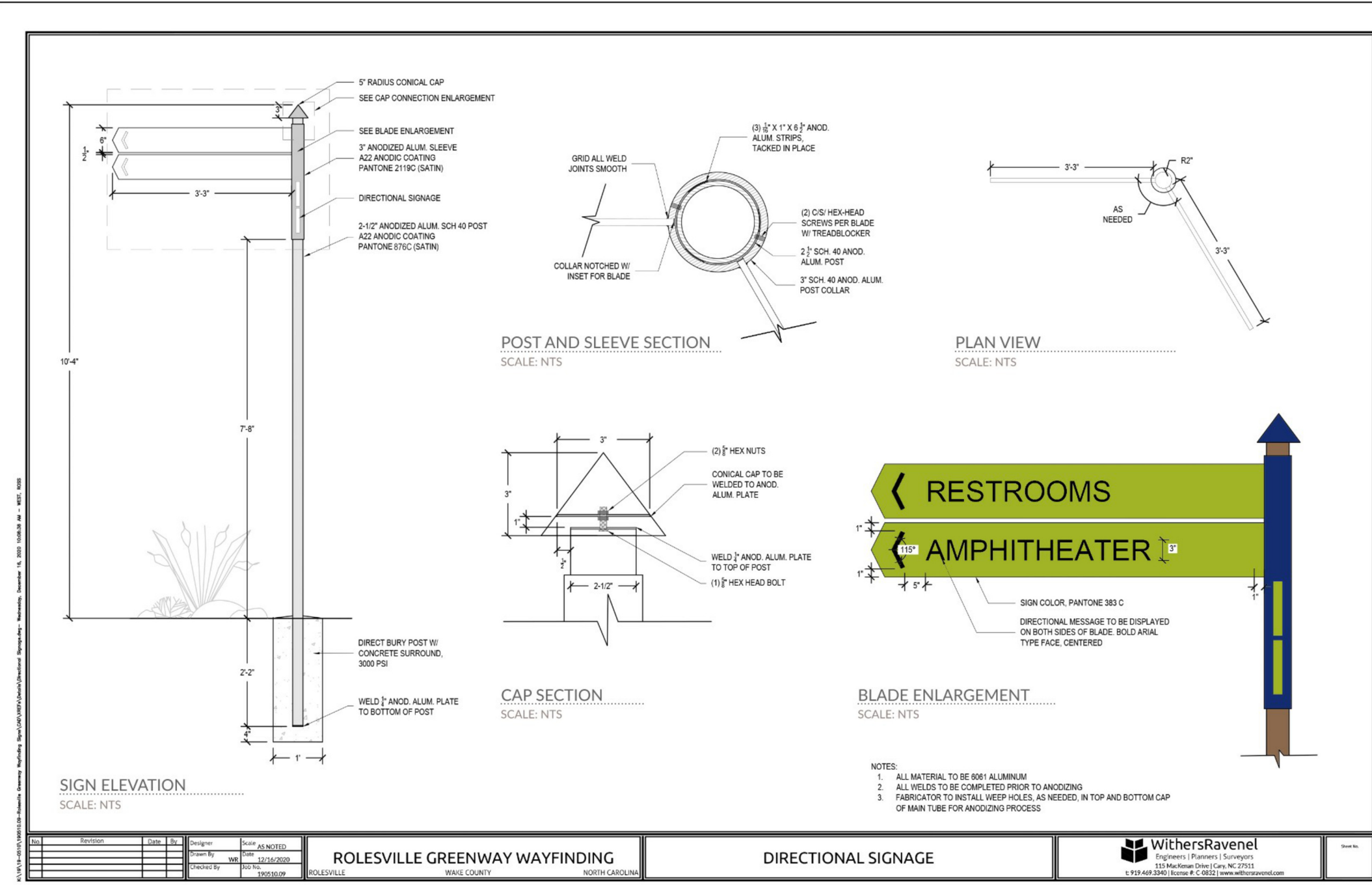
Acct. No.:
Designer: **BW**

Revisions:
1.24.23
1.24.23
1.26.23

POST & SIGN ELEVATION
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Notes:
 Approved
 Approved in Field
 Needs a Revision

2.0



ROLESVILLE GREENWAY WAYFINDING DIRECTIONAL SIGNAGE

TYPE 1 - GREENWAY RULES

TYPE 2 - DIRECTIONAL SIGNAGE

SPECIALITY SIGNAGE

**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC

PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: **KL, RW**
DRAWN BY: **PH, LM**
DATE: **22-JAN-2026**
PROJECT NO: **22-205**

SITE DETAILS

C-8.03

N.T.S.



PRELIMINARY PLANS
FOR REVIEW ONLY

Rolesville Town Campus
Infrastructure Package
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UTILITY DETAILS

C-9.01

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"-36"	#5	2'-2"+ O.D. PIPE	1.043 LBS/FT	1'-1"	1.1 LBS. EACH	X-24 Y-12
≥48"	#6	3'-0"+ O.D. PIPE	1.502 LBS/FT	1'-3"	1.9 LBS. EACH	X-24 Y-12

I.D. PIPE	"A"	"B"	"C"	"D"
6"-16"	1'-4"	1'-7"	2"	3/8"
20"-24"	1'-4"	1'-7"	3"	1/2"
30"-36"	1'-4"	1'-7"	4"	5/8"
≥48"	1'-8"	1'-9"	6"	7/8"

CITY OF RALEIGH STANDARD DETAIL
REVISIONS: DATE: 01/18/2025 NOT TO SCALE
STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE
W-5

CITY OF RALEIGH STANDARD DETAIL
REVISIONS: DATE: 01/18/2025 NOT TO SCALE
STANDARD FIRE HYDRANT INSTALLATION (RESTRAINING GLANDS)
W-4

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON
DWG. NO. W-3
REVISIONS: DATE: 09-3-99, 03-31-00
REVISED BY: ABB, J.P.S.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS: DATE: 01/18/2025 NOT TO SCALE
4"-24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
W-14

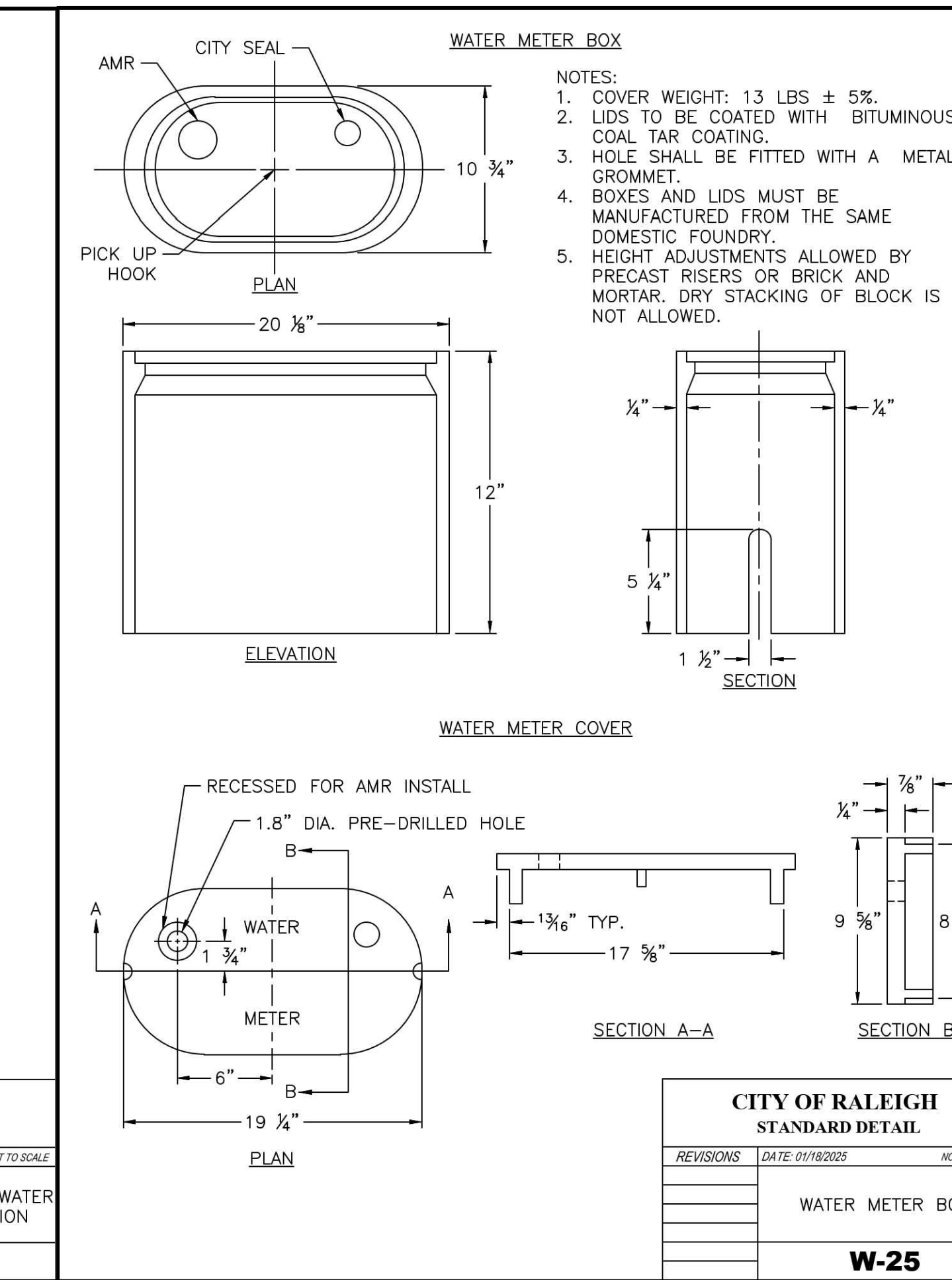
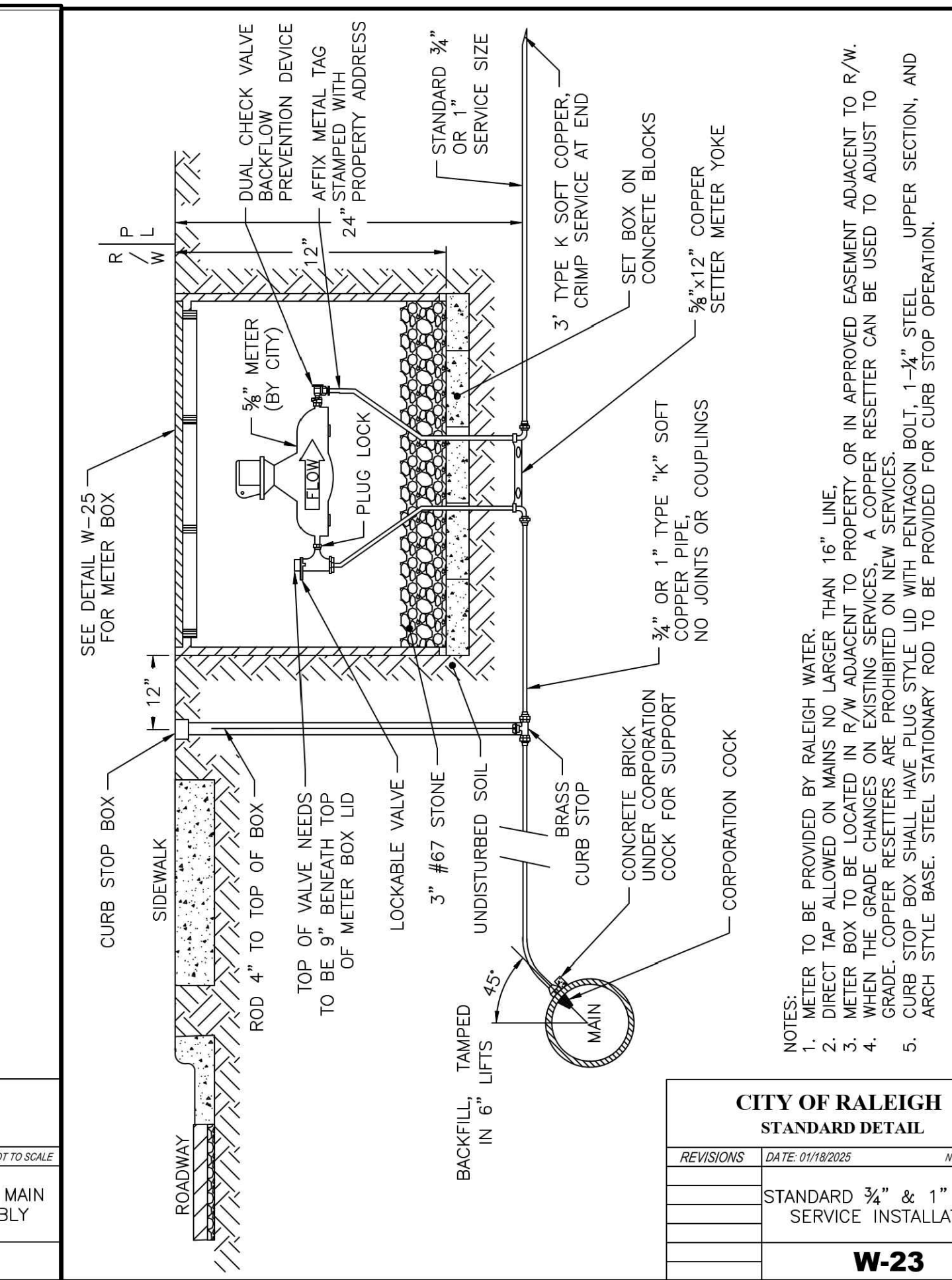
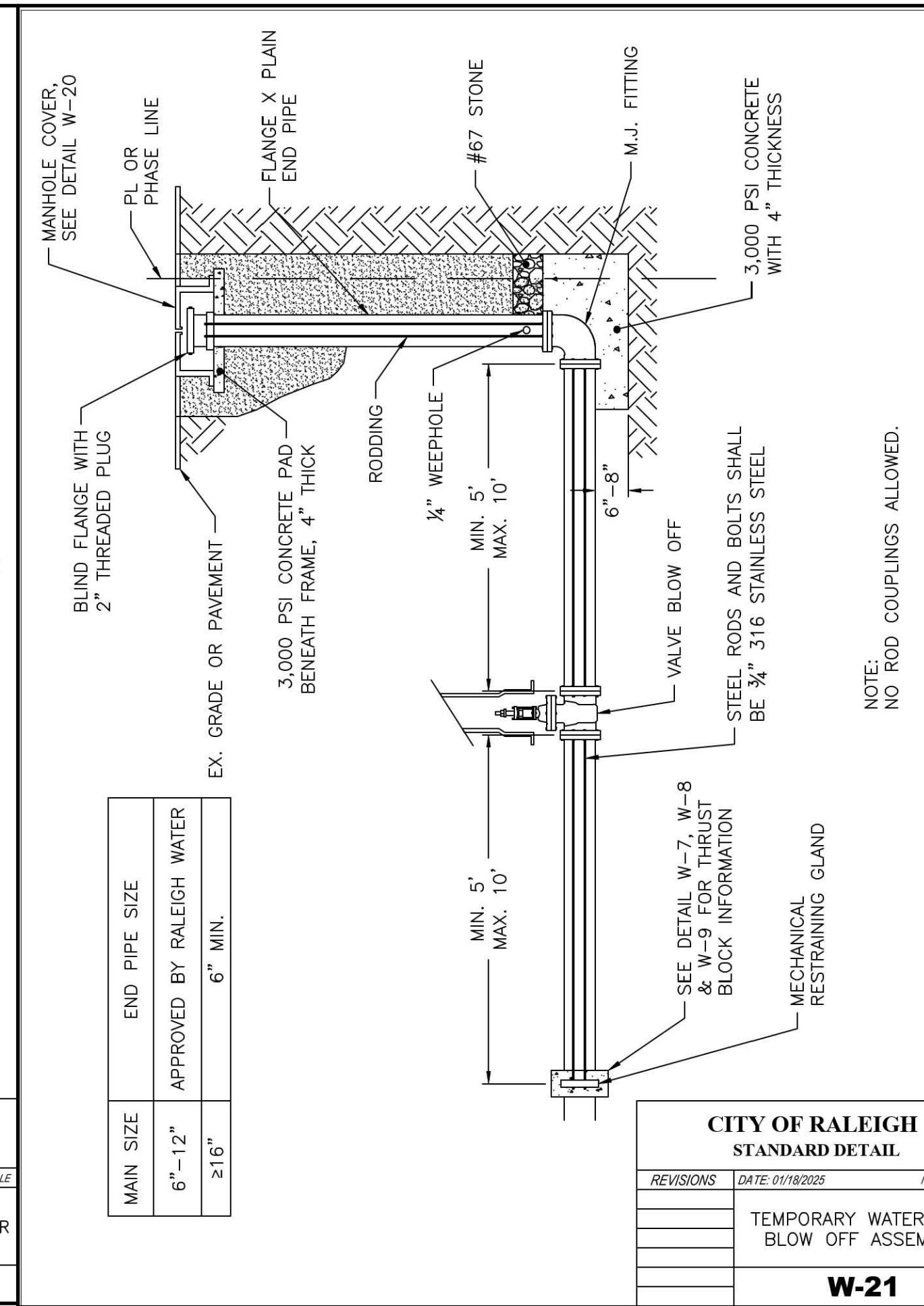
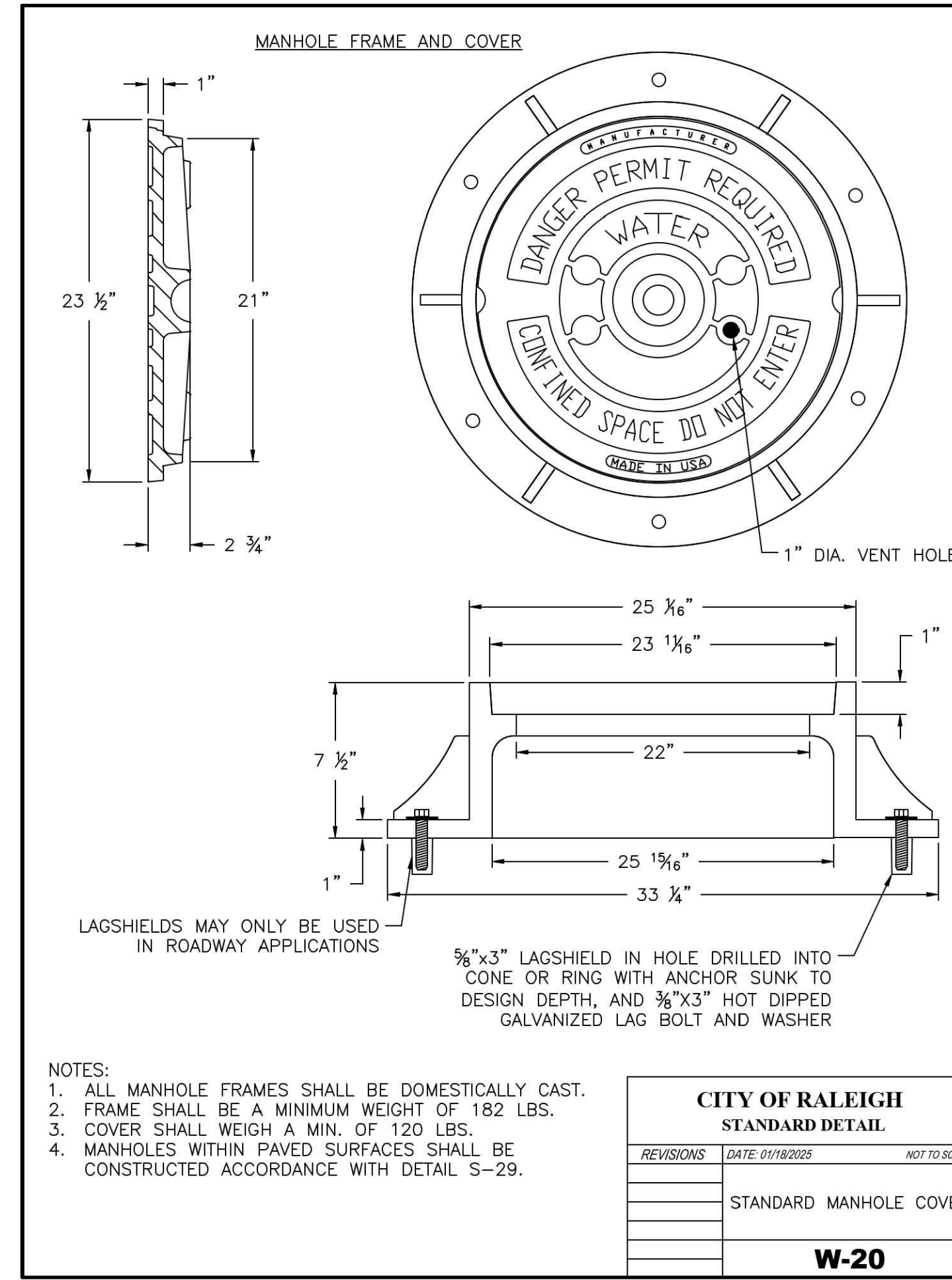
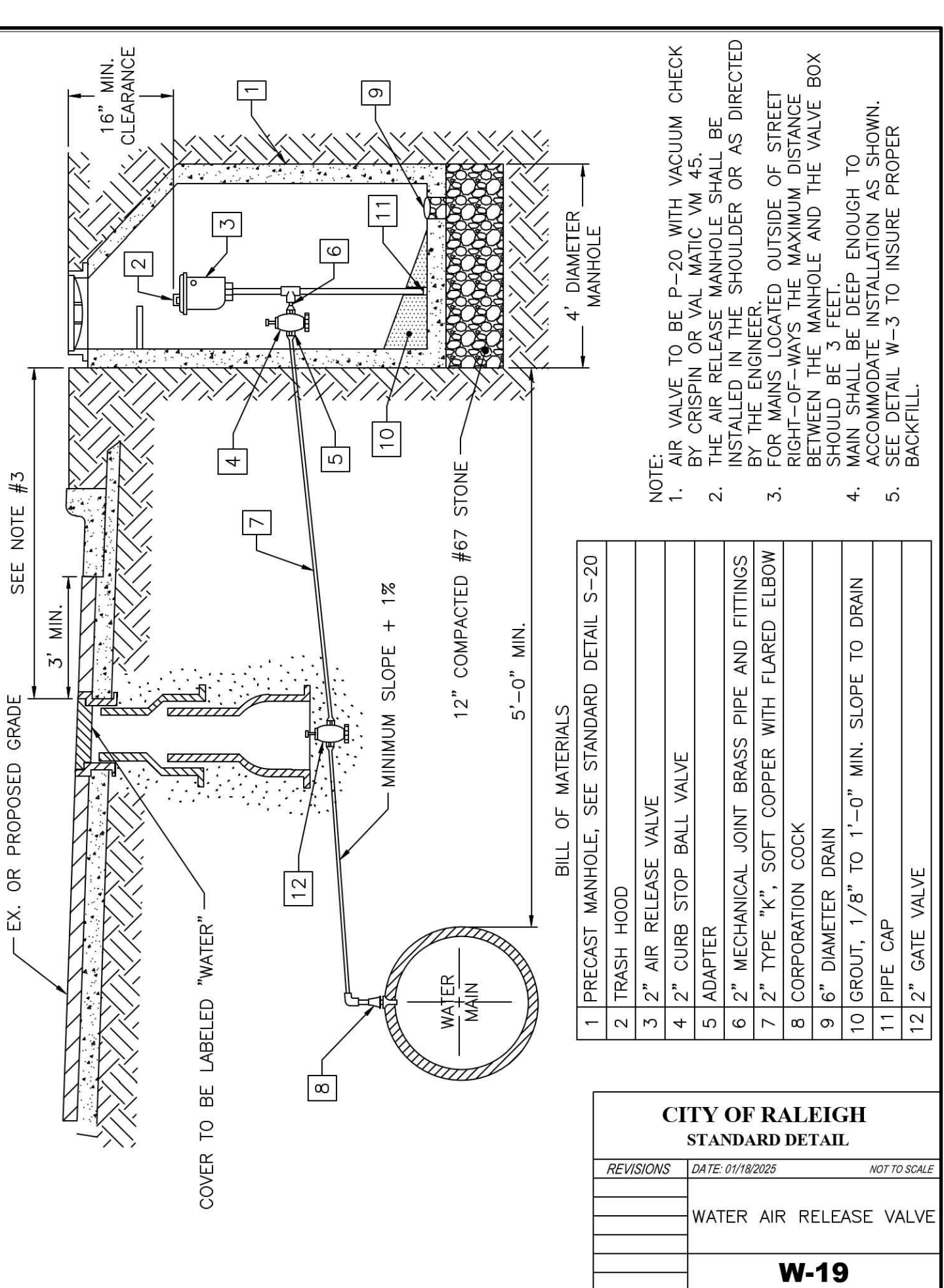
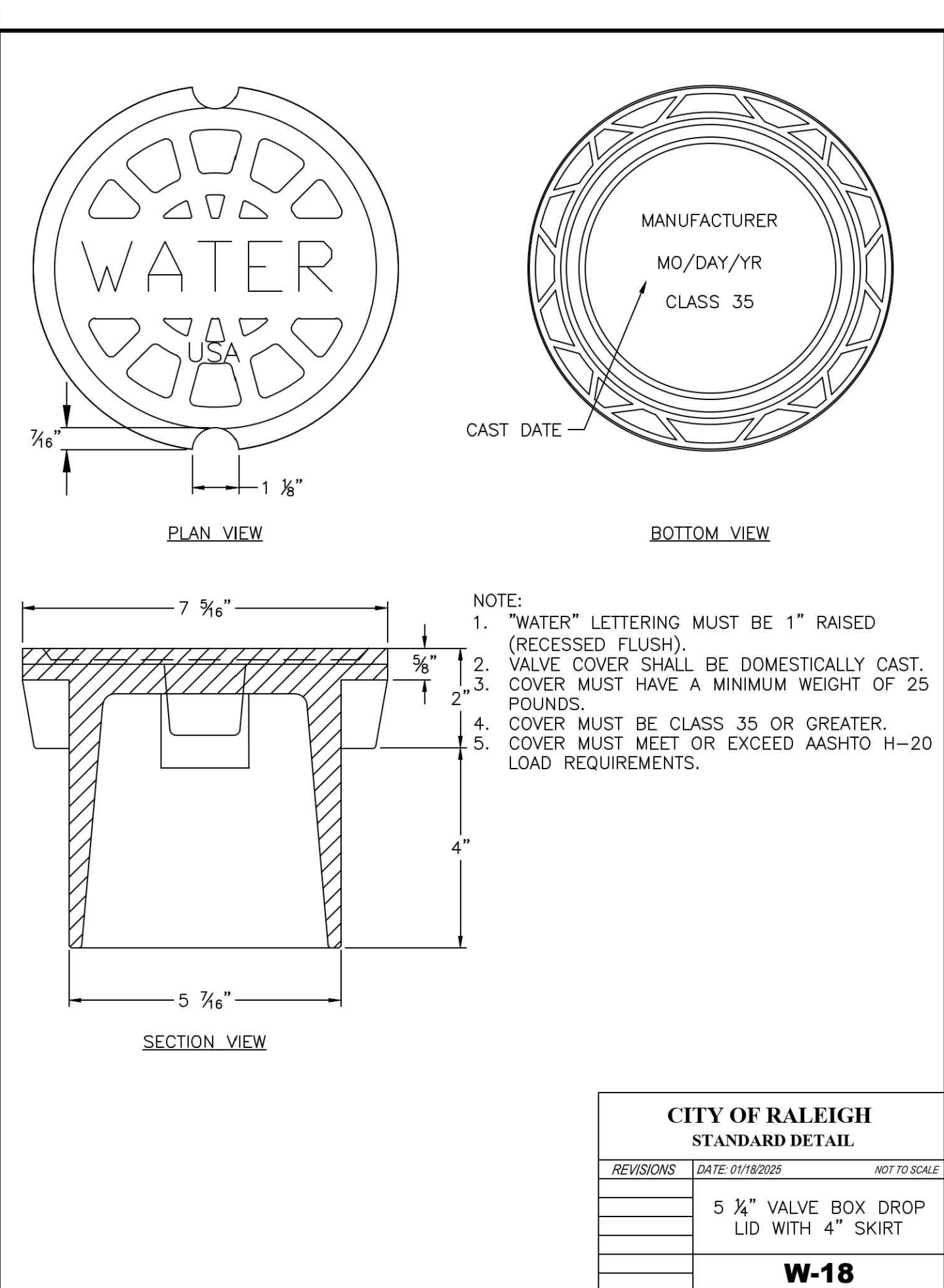
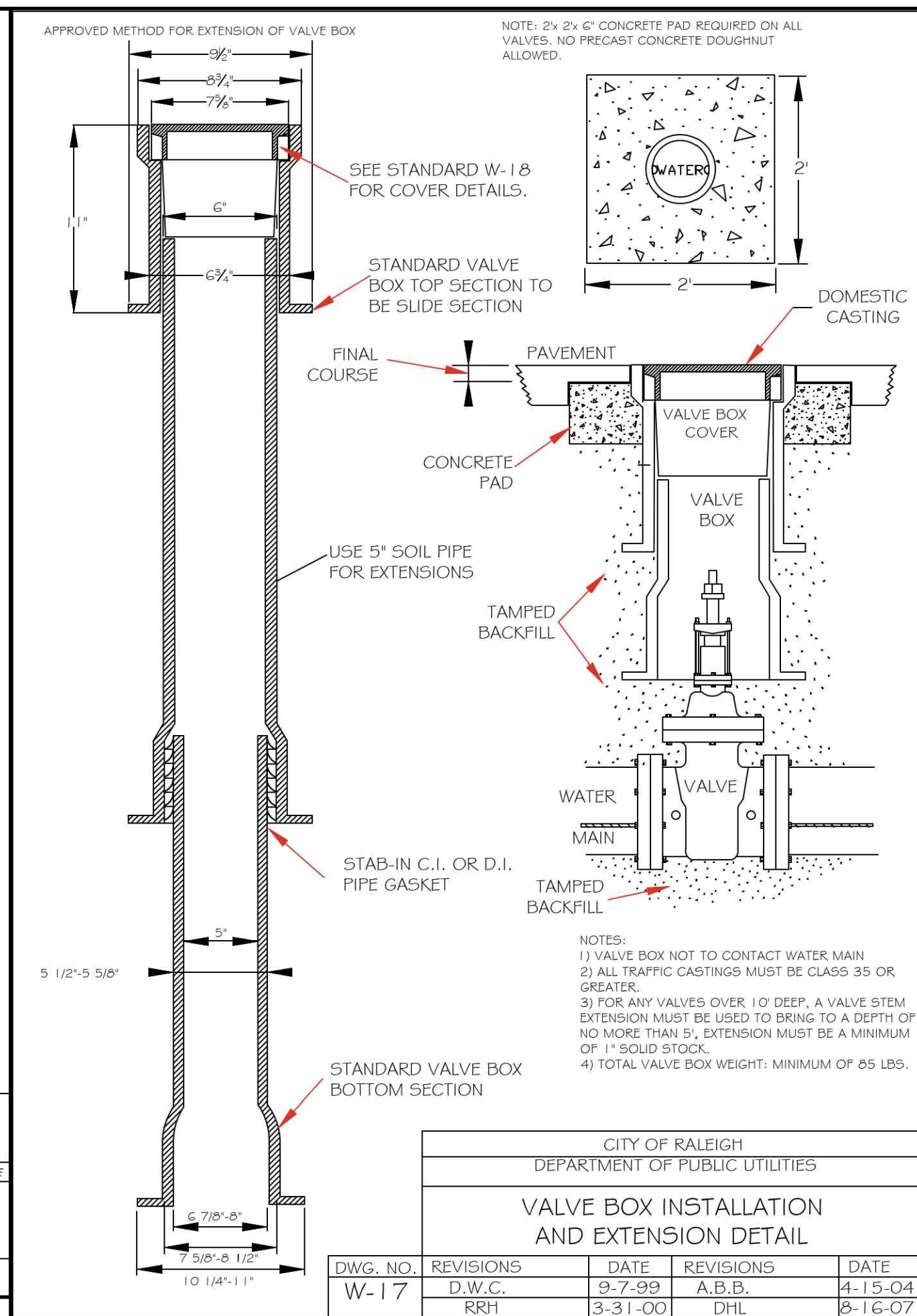
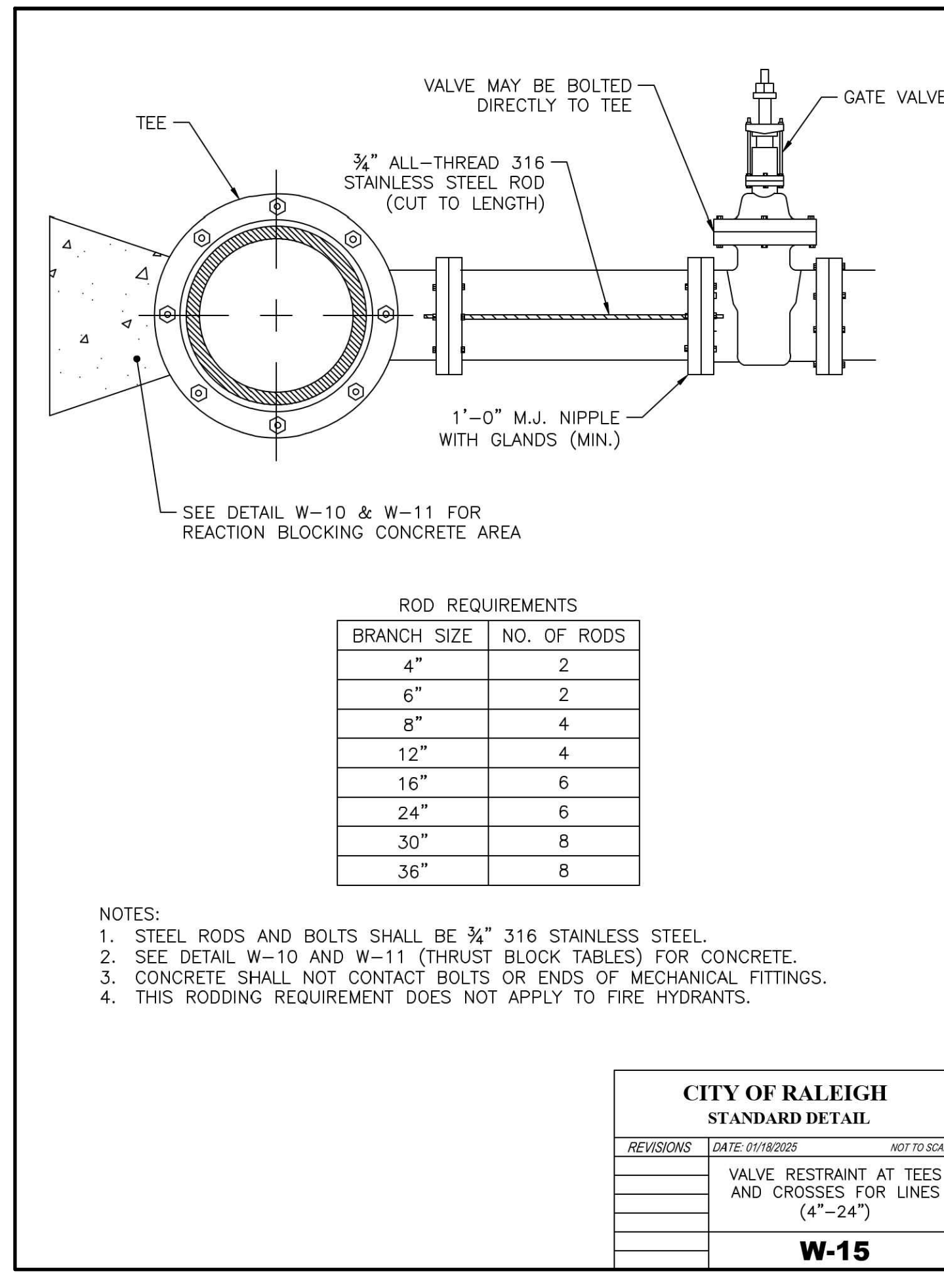
SIZE OF 45° BEND	STATIC THRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	8
16"	30,779	16
24"	69,252	32

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD VERTICAL BEND
DWG. NO. W-12
REVISIONS: DATE: 4-6-04, 6-18-08
REVISED BY: ABB, D.H.L.

SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVEL/COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT²	SAND-CLEAN DRY 4,000 LBS/FT² (VERY POOR)	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK-POOR 10,000 LBS/FT²
6"	11 1/2°	1,108	1	1	1	1	1	1	2	1
	22 1/2°	2,207	1	2	2	1	1	1	3	1
	45°	4,328	2	3	3	1	1	2	5	1
	90°	7,996	2	4	5	1	1	2	8	1
	PLUG	5,655	2	3	4	1	1	2	6	1
8"	11 1/2°	1,970	1	1	2	1	1	1	2	1
	22 1/2°	3,922	1	2	3	1	1	1	4	1
	45°	7,694	2	4	5	1	1	2	8	1
	90°	14,215	4	8	9	2	2	4	15	2
	PLUG	10,053	3	5	6	2	2	3	10	1
12"	11 1/2°	4,433	2	3	3	1	1	2	5	1
	22 1/2°	8,826	3	5	6	2	2	3	9	1
	45°	17,312	5	9	11	3	3	5	18	2
	90°	31,983	8	16	19	4	4	8	32	4
	PLUG	22,619	6	12	14	3	3	6	23	3
16"	11 1/2°	7,881	2	4	5	1	1	2	8	1
	22 1/2°	15,691	4	8	10	2	2	4	16	2
	45°	30,779	8	16	19	4	4	8	31	4
	90°	56,861	15	29	35	8	8	15	57	6
	PLUG	40,213	10	21	25	5	5	10	41	5

CITY OF RALEIGH STANDARD DETAIL
REVISIONS: DATE: 01/18/2025 NOT TO SCALE
THRUST BLOCKING DESIGN QUANTITY TABLE
W-10

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD THRUST BLOCKING VIEWS
DWG. NO. W-9
REVISIONS: DATE: 3-1-87, 9-7-99
REVISED BY: RRH, D.H.L.



PRELIMINARY PLANS
FOR REVIEW ONLY

**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC

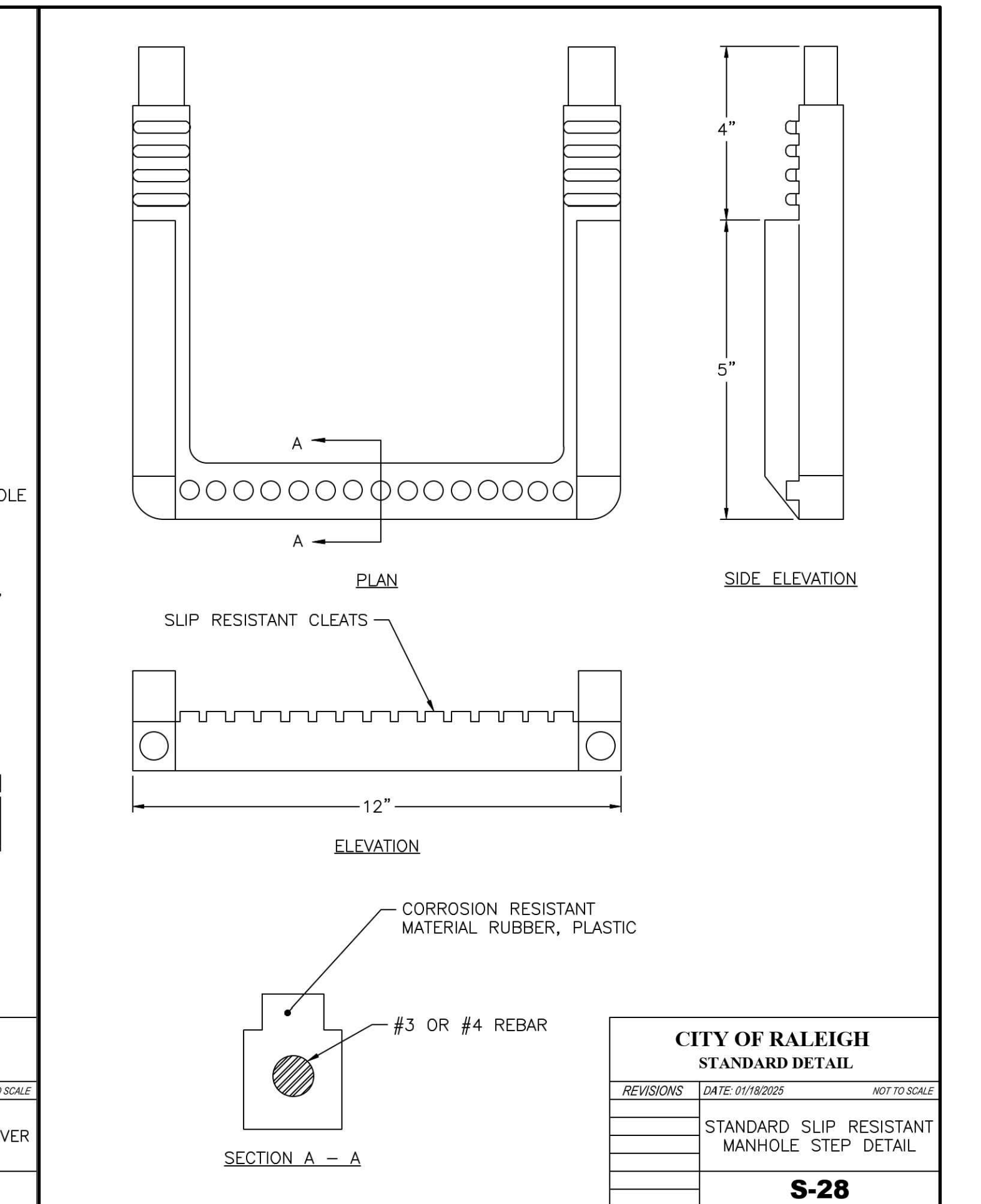
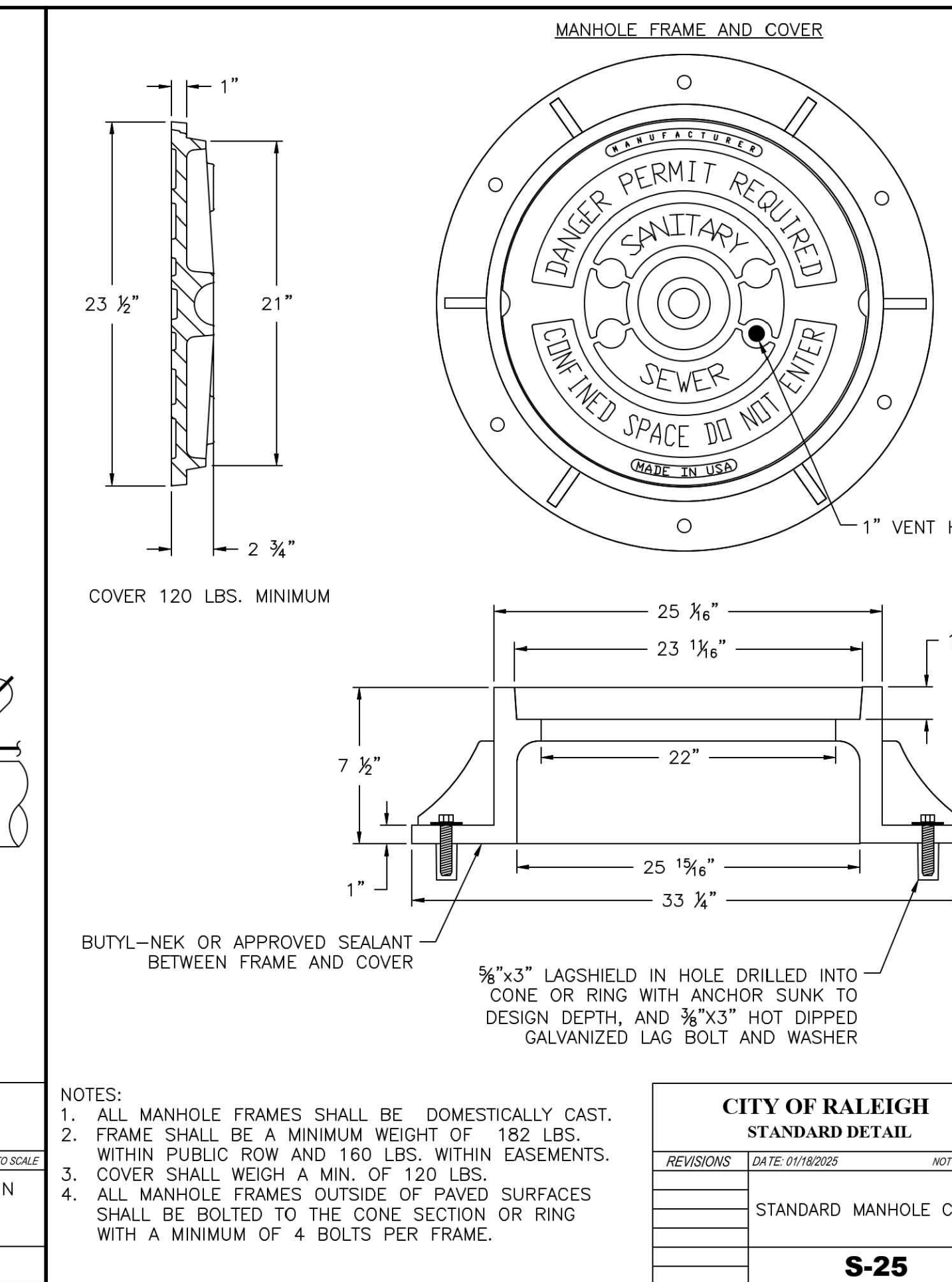
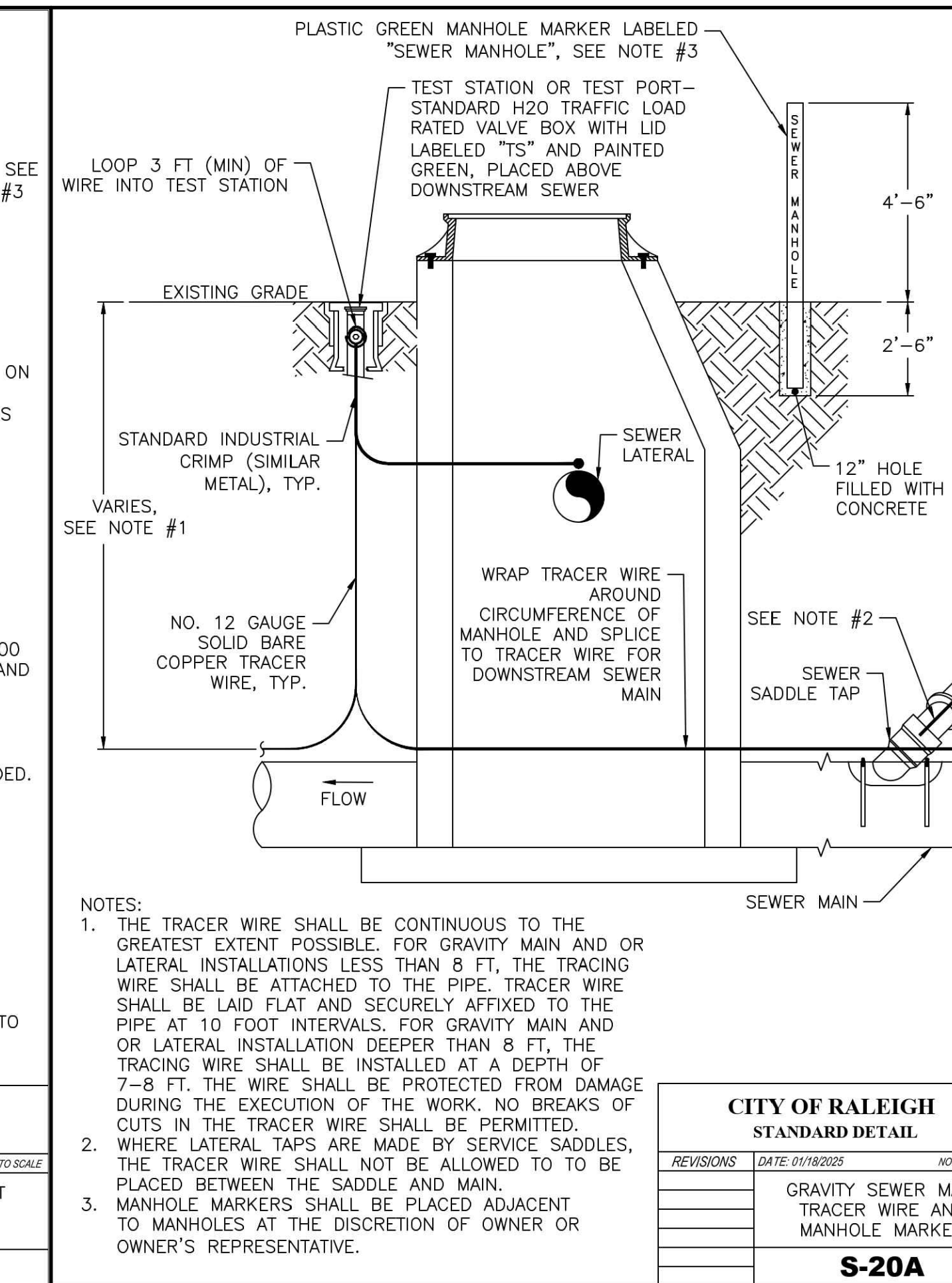
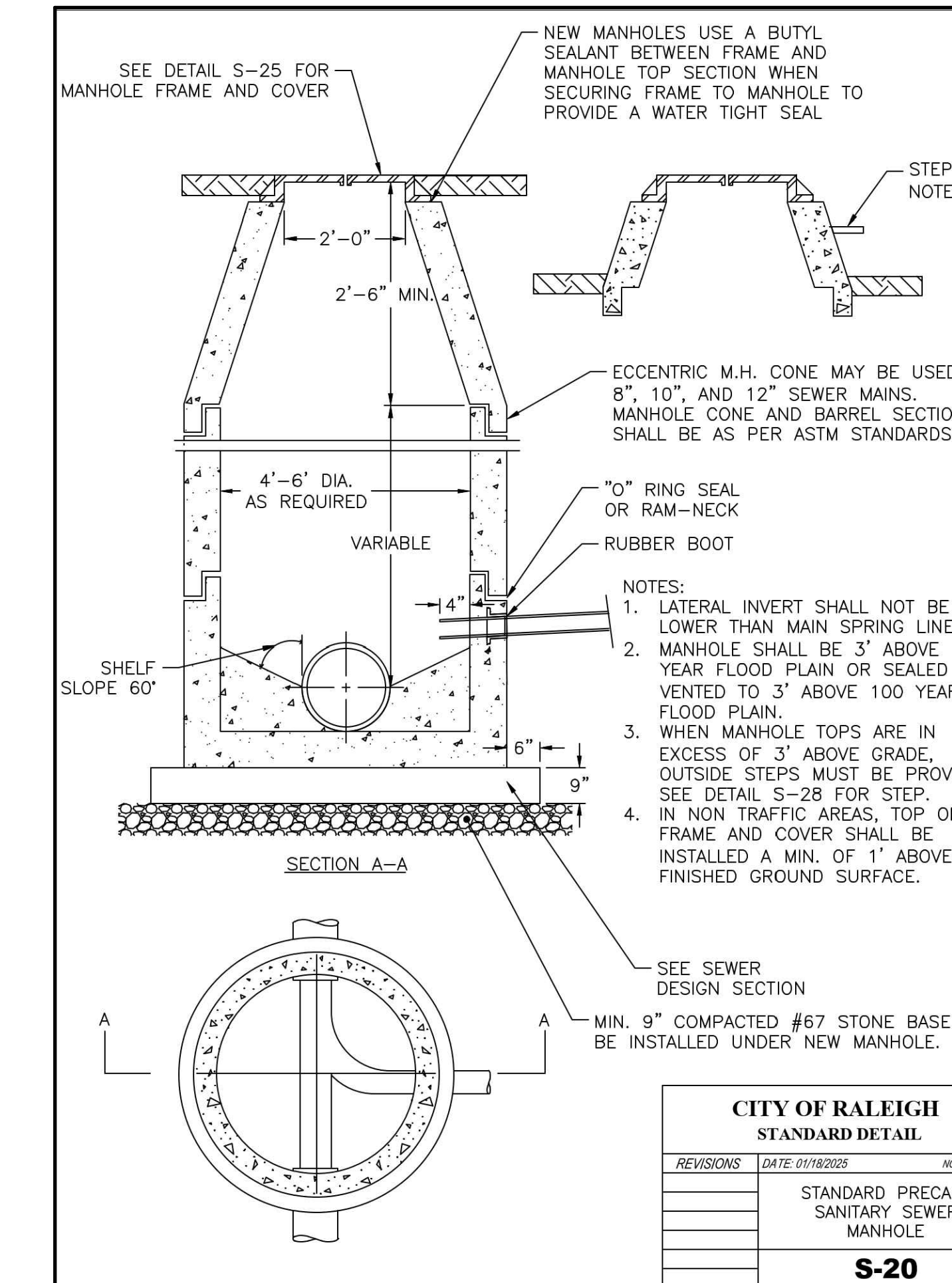
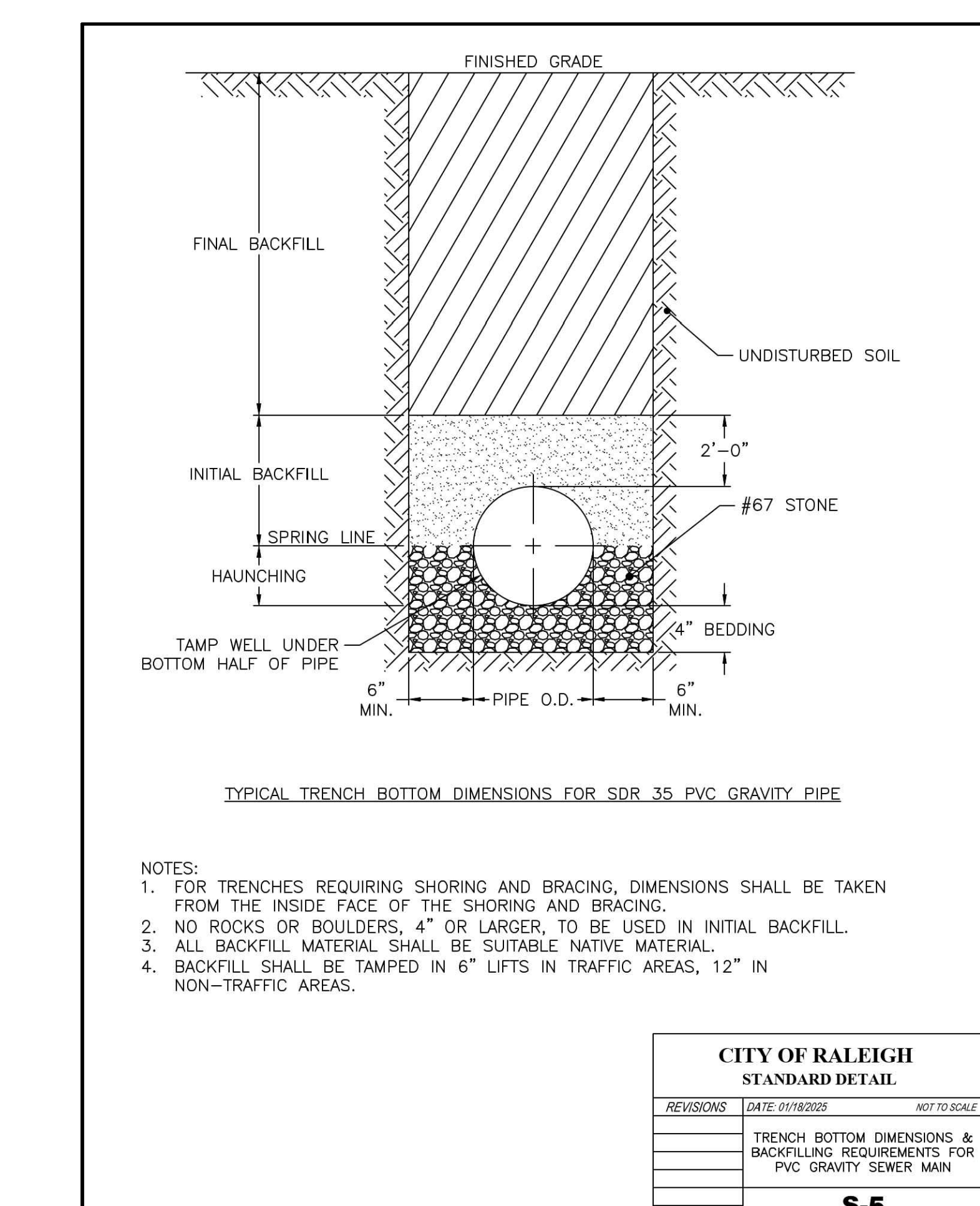
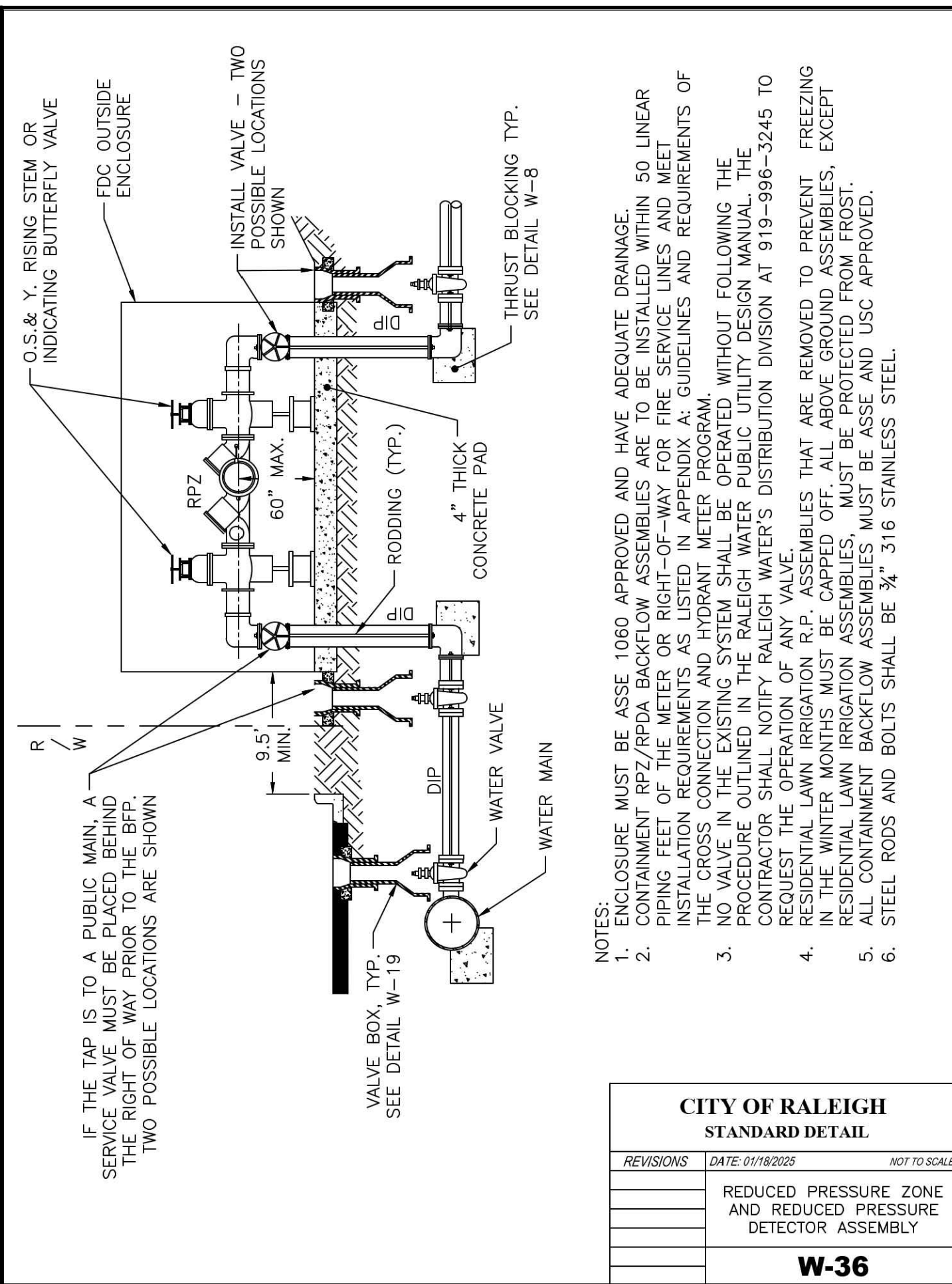
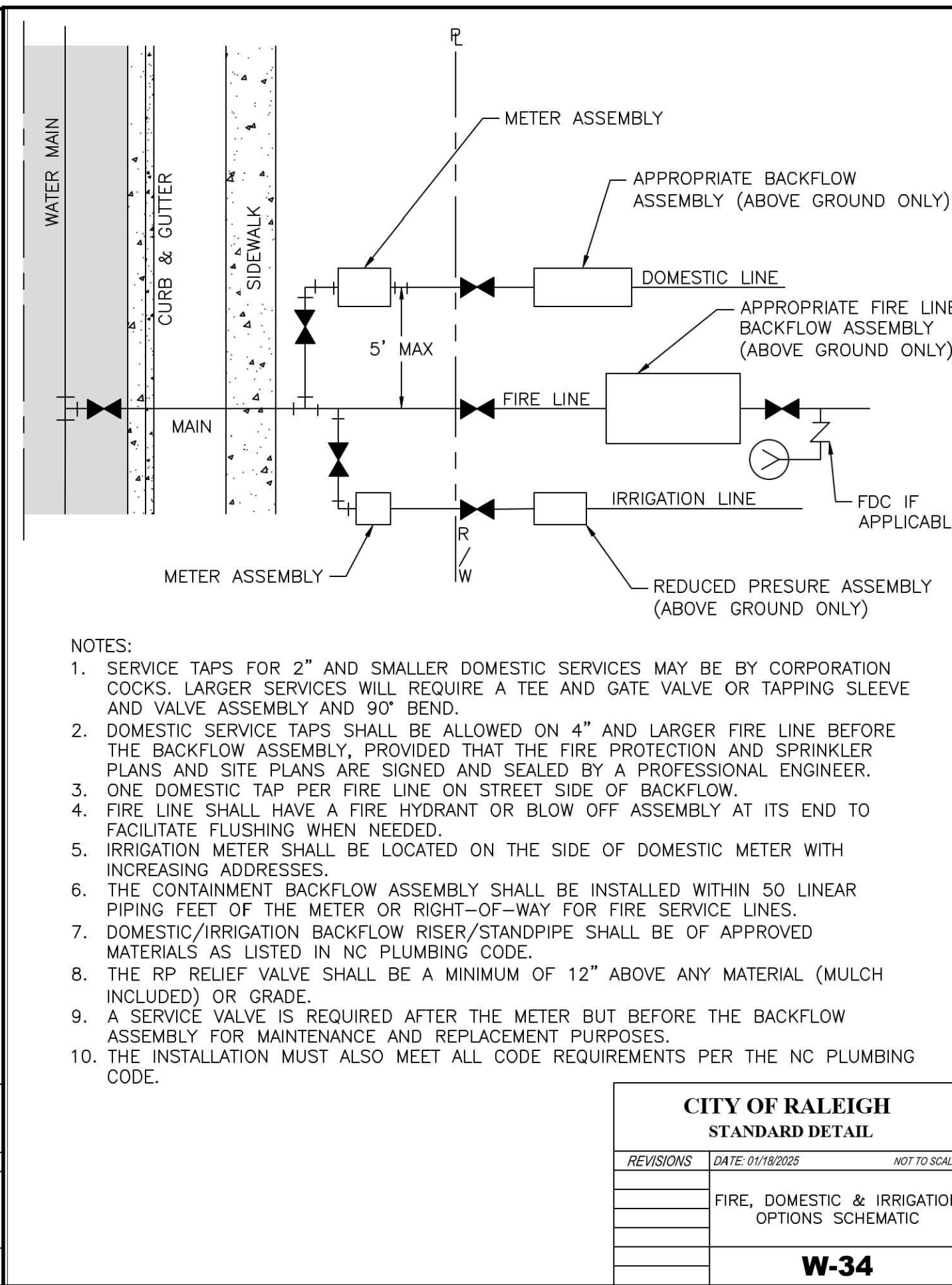
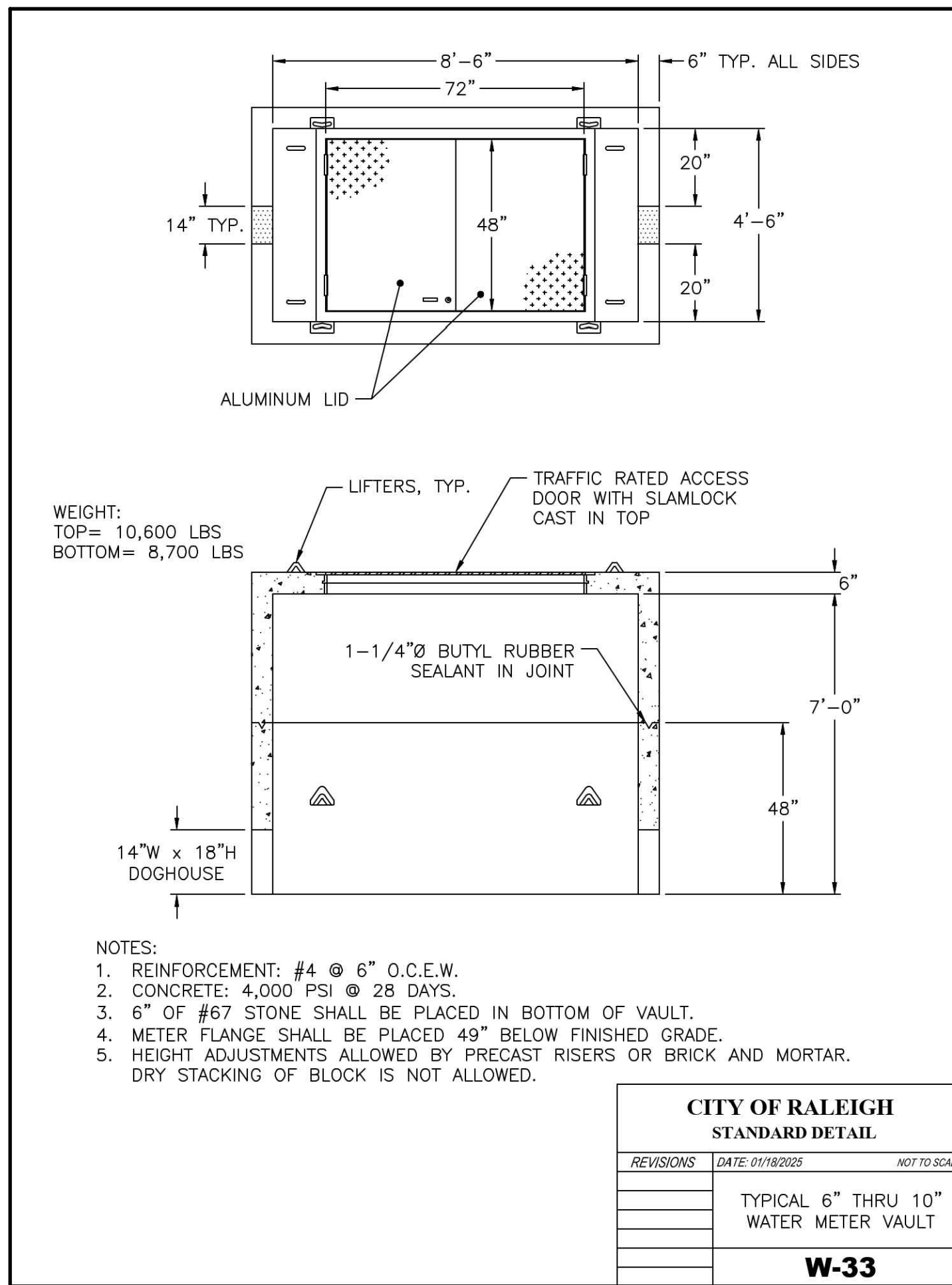
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

UTILITY DETAILS

C-9.02



PRELIMINARY PLANS
FOR REVIEW ONLY

**Rolesville Town Campus
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408 EAST YOUNG STREET, ROLESVILLE, NC

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DATE: 22-JAN-2026
PROJECT NO: 22-205

UTILITY DETAILS

C-9.03



PRELIMINARY PLANS
FOR REVIEW ONLY

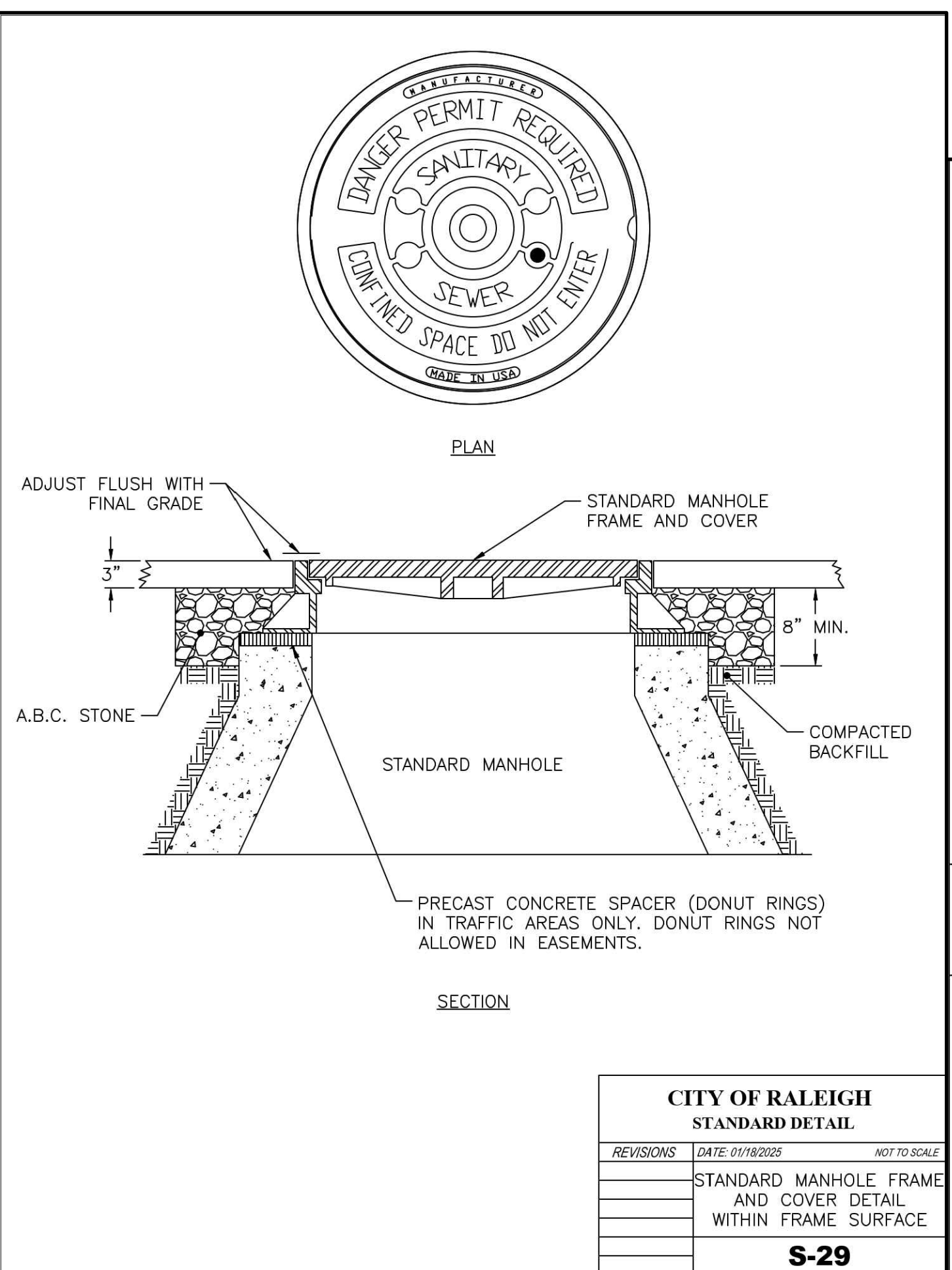
**Rolesville Town Campus
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408 EAST YOUNG STREET, ROLESVILLE, NC
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DATE: 22-JAN-2026
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UTILITY DETAILS

C-9.04

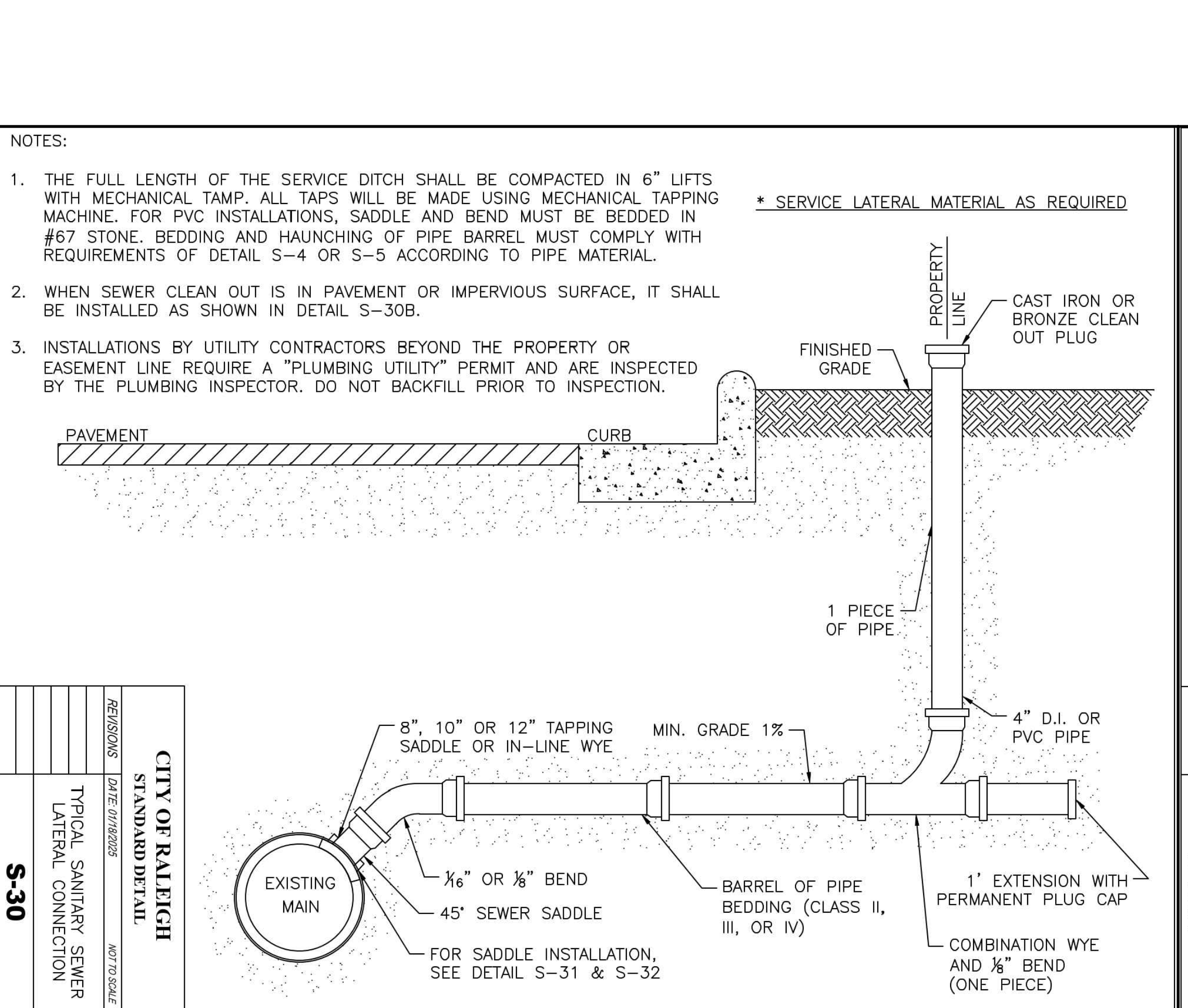


**CITY OF RALEIGH
STANDARD DETAIL**

REVISIONS	DATE: 01/18/2025	NOT TO SCALE

STANDARD MANHOLE FRAME AND COVER DETAIL WITHIN FRAME SURFACE

S-29

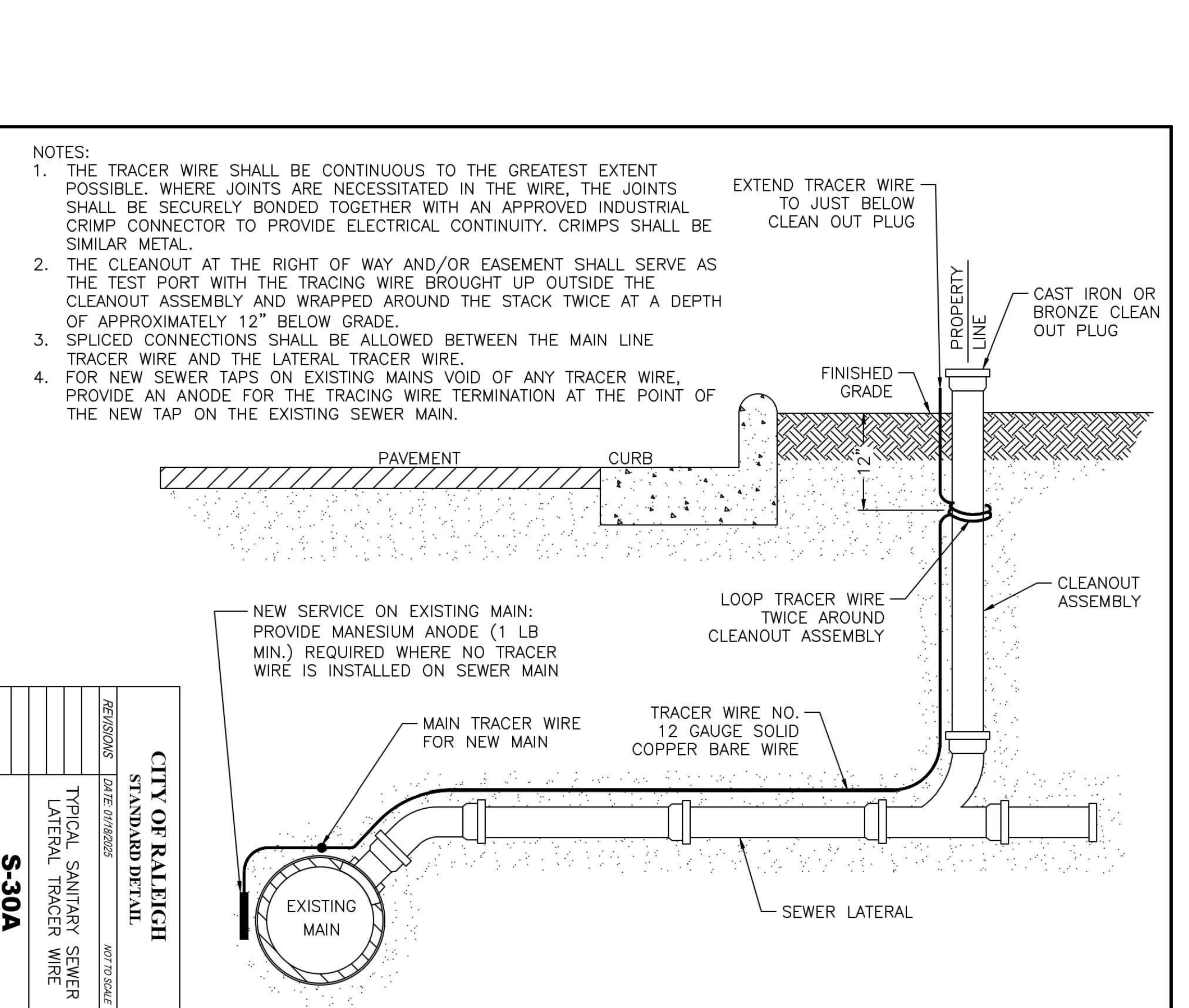


**CITY OF RALEIGH
STANDARD DETAIL**

REVISIONS	DATE: 01/18/2025	NOT TO SCALE

TYPICAL SANITARY SEWER LATERAL CONNECTION

S-30

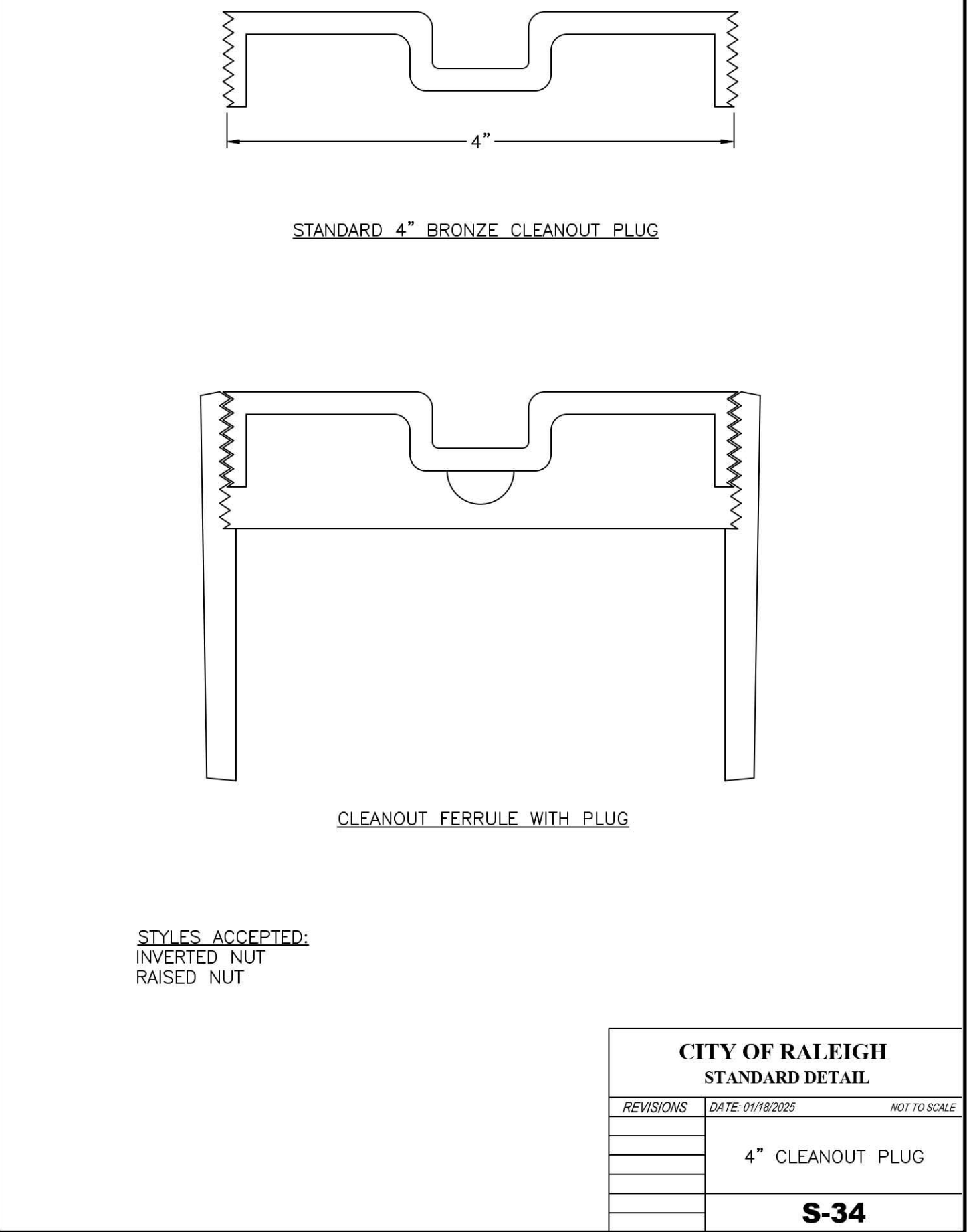


**CITY OF RALEIGH
STANDARD DETAIL**

REVISIONS	DATE: 01/18/2025	NOT TO SCALE

TYPICAL SANITARY SEWER LATERAL TRACER WIRE

S-30A

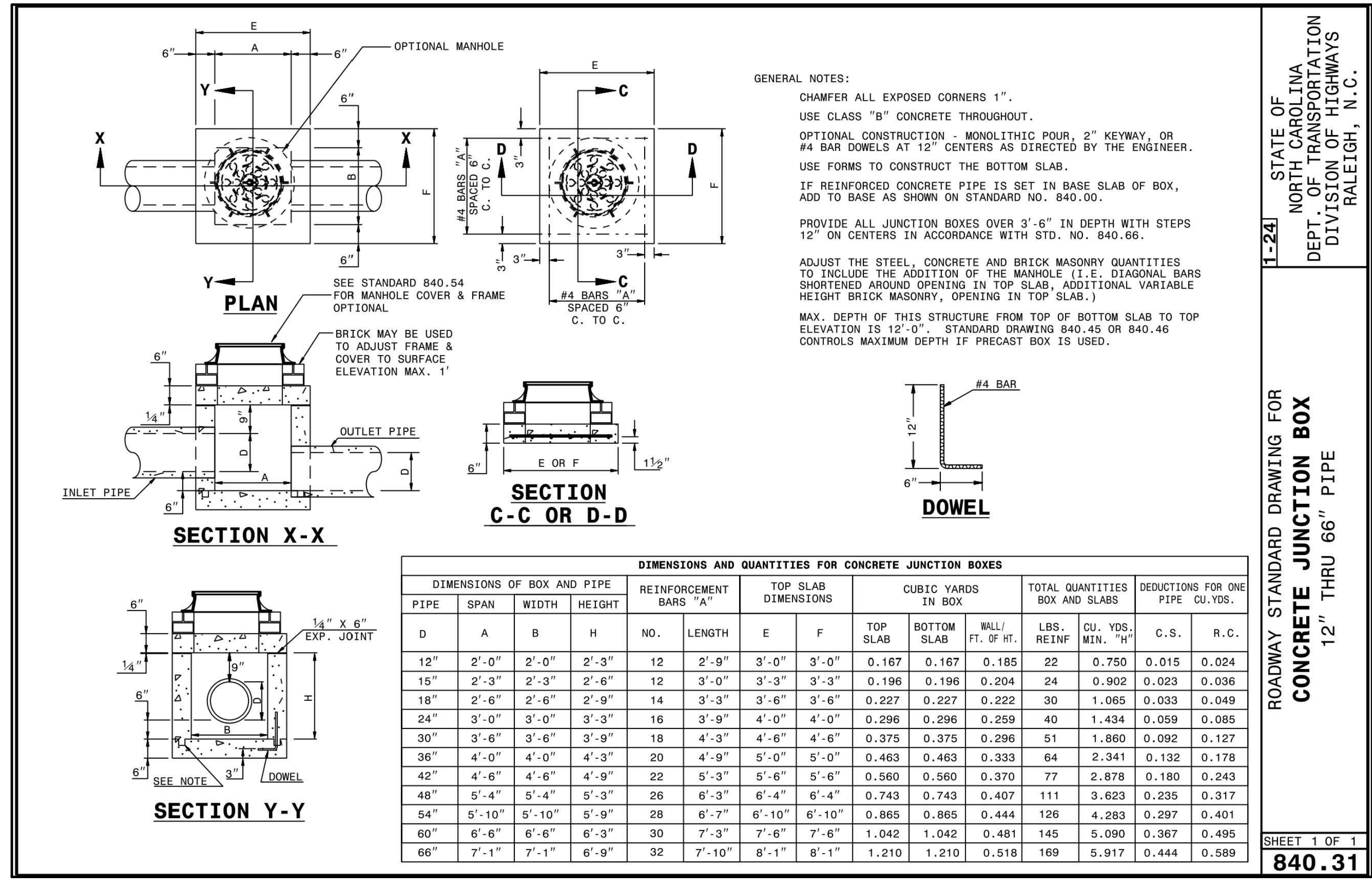


**CITY OF RALEIGH
STANDARD DETAIL**

REVISIONS	DATE: 01/18/2025	NOT TO SCALE

4" CLEANOUT PLUG

S-34



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE JUNCTION BOX
12" THRU 66" PIPE

840.31



PRELIMINARY PLANS
FOR REVIEW ONLY

Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

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DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

UTILITY DETAILS

C-9.05

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

1-24

SHEET 1 OF 2
840.02

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED. CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

BACK OF CURB
TOP ELEVATION
SECTION X-X
SECTION Y-Y
SECTION J-J
SECTION M-M
DETAIL SHOWING METHOD OF RISER CONSTRUCTION

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

1-24

SHEET 1 OF 2
840.03

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT

FRAME, GRATE, & HOOD ASS'Y
SECTION - AA
SECTION - BB
SECTION - KK
HOOD ELEVATION
SECTION - LL
SECTION - MM
SECTION - JJ
SECTION - RR
SECTION A-A
SECTION B-B
SECTION A-A
SECTION A-A

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

1-24

SHEET 2 OF 2
840.02

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *

PIPE D	DIMENSIONS OF BOX AND PIPE			COVER DIMENSION			BARS-U			BARS-V			BARS-W			TOTAL LBS.	TOP SLAB CONC. FOR MINIMUM HEIGHT, H	DEDUCTIONS ONE PIPE	
	SPAN A	WIDTH B	WIDTH C	SPAN E	MIN. HEIGHT F	H	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	CU YDS.	CONC.	C.M.			R.C.	
12"	3'-0"	2'-2"	--	G	--	2'-9"	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026	
15"	3'-0"	2'-2"	--	G	--	3'-0"	--	--	--	--	--	--	--	--	0.235	0.829	0.023	0.036	
18"	3'-0"	2'-2"	--	G	--	3'-3"	--	--	--	--	--	--	--	--	0.235	0.887	0.033	0.049	
24"	3'-0"	2'-2"	--	G	--	3'-9"	--	--	--	--	--	--	--	--	0.235	1.001	0.059	0.085	
30"	3'-0"	2'-2"	3'-4"	G	4'-3"	1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.127	
36"	3'-0"	2'-2"	3'-10"	G	4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	
42"	3'-0"	2'-2"	4'-5"	G	4'-3"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	
48"	3'-0"	2'-2"	5'-0"	G	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	
54"	3'-0"	2'-2"	5'-7"	G	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

PLAN OF TOP SLAB
SECTION S-S
SECTION R-R
DOWEL
PLAN
ELEVATION
ELEVATION

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

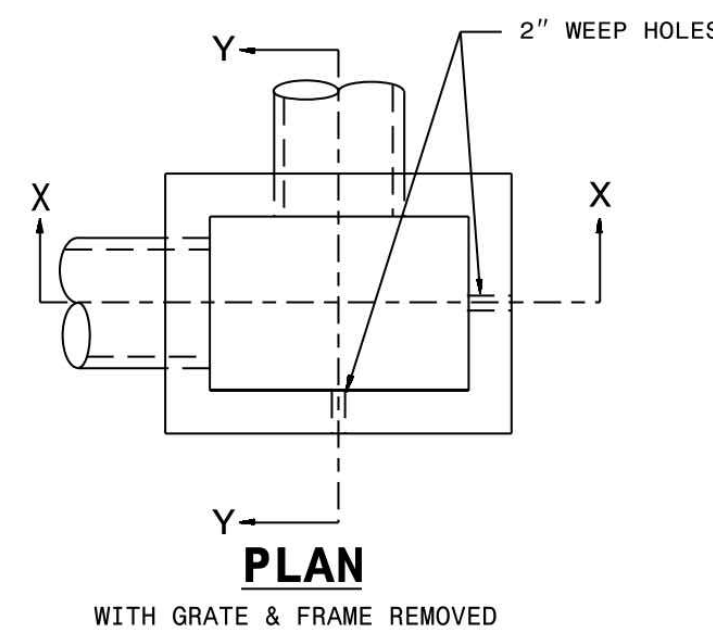
ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

1-24

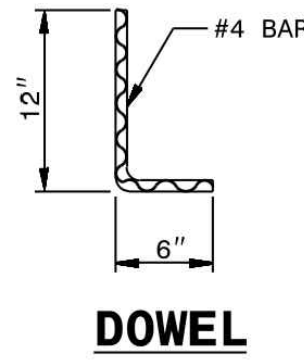
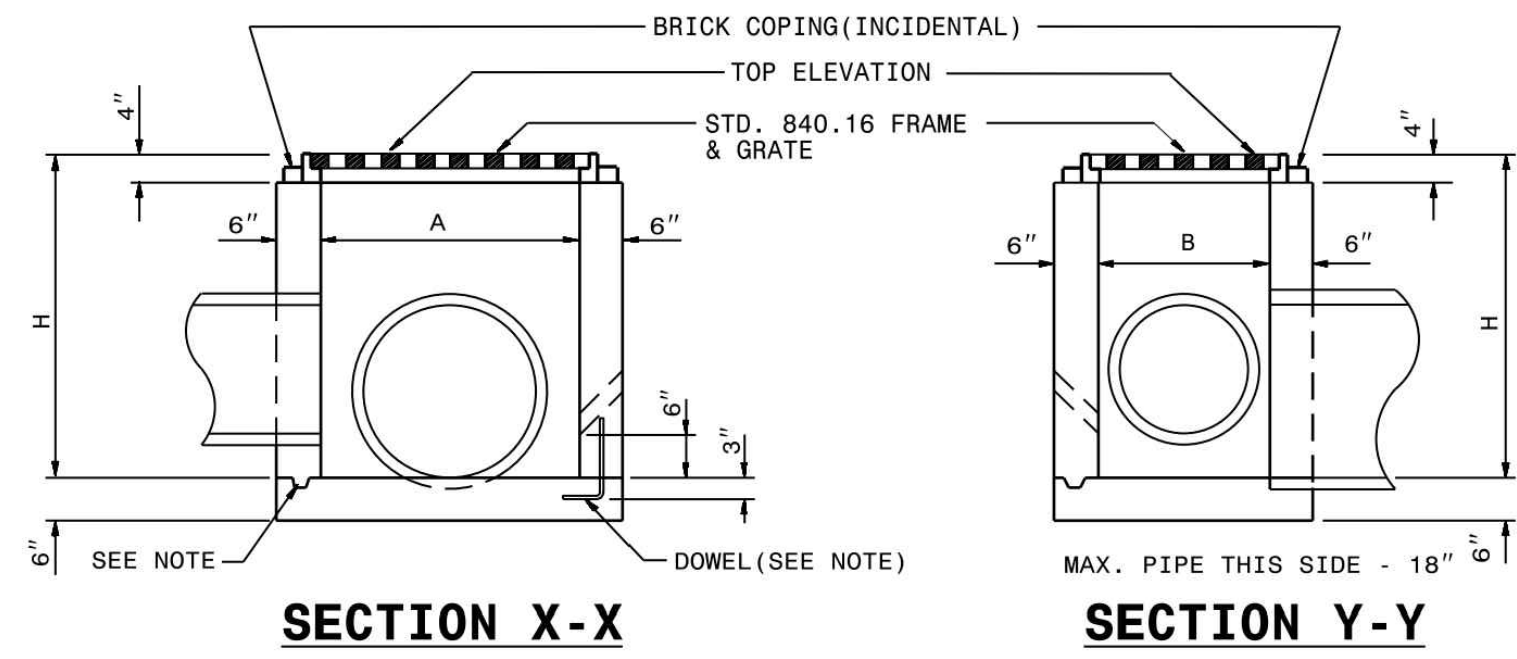
SHEET 2 OF 2
840.03

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.

SECTION A-A
SECTION B-B
SECTION A-A
SECTION A-A
SECTION A-A

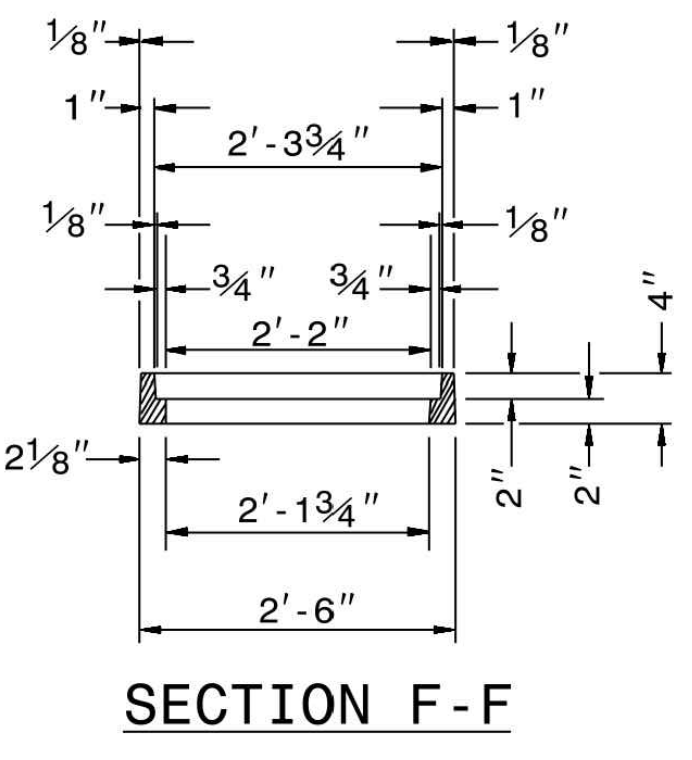
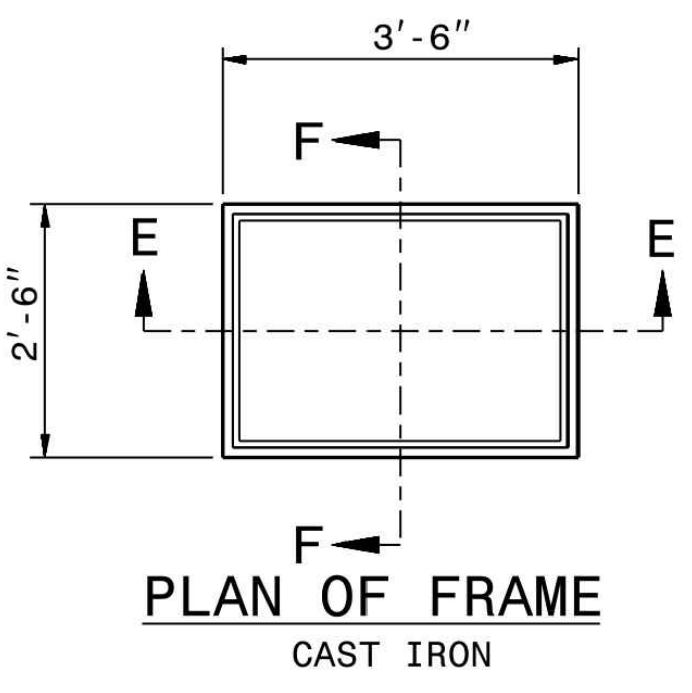
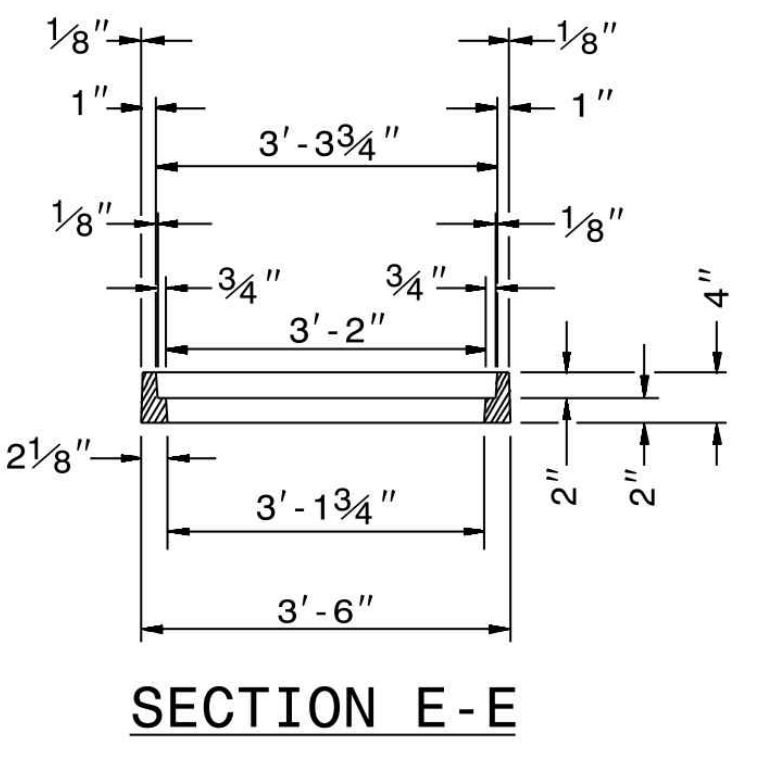
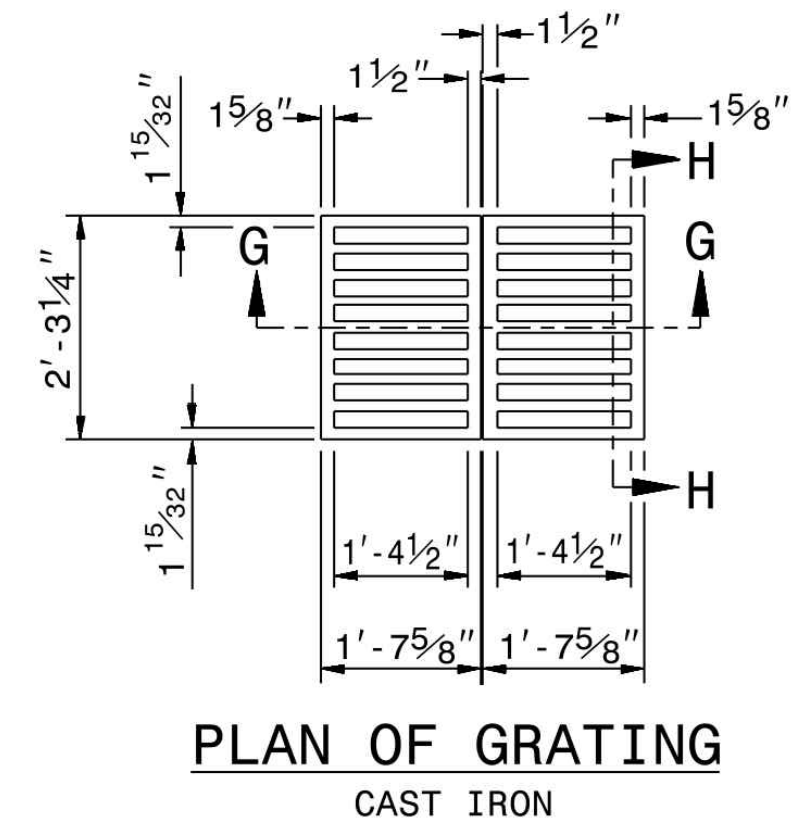
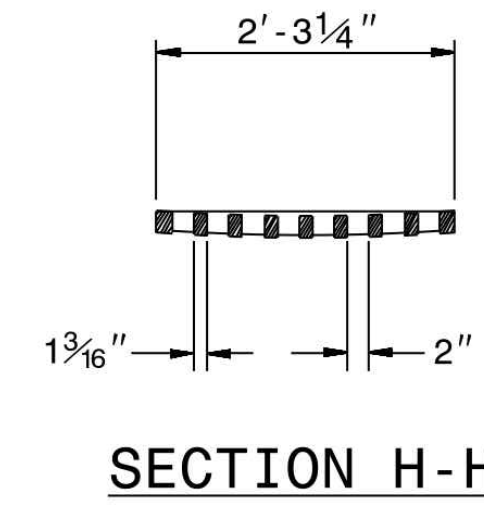
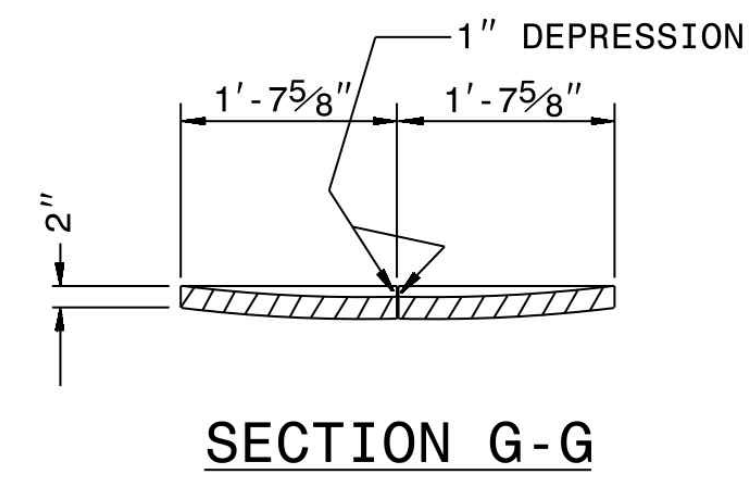


GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.43 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
 INSTALL 2" WEEP HOLES AS DIRECTED BY THE ENGINEER.
 INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.



DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)									
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX		DEDUCTIONS FOR ONE PIPE			
PIPE DIA.	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR BOTTOM HEIGHT, cu. ft.	C.M.	R.C.	
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026	
15"	/	/	2'-3"	/	/	0.648	0.023	0.036	
18"	/	/	2'-6"	/	/	0.703	0.033	0.049	
24"	/	/	3'-0"	/	/	0.814	0.059	0.085	
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127	

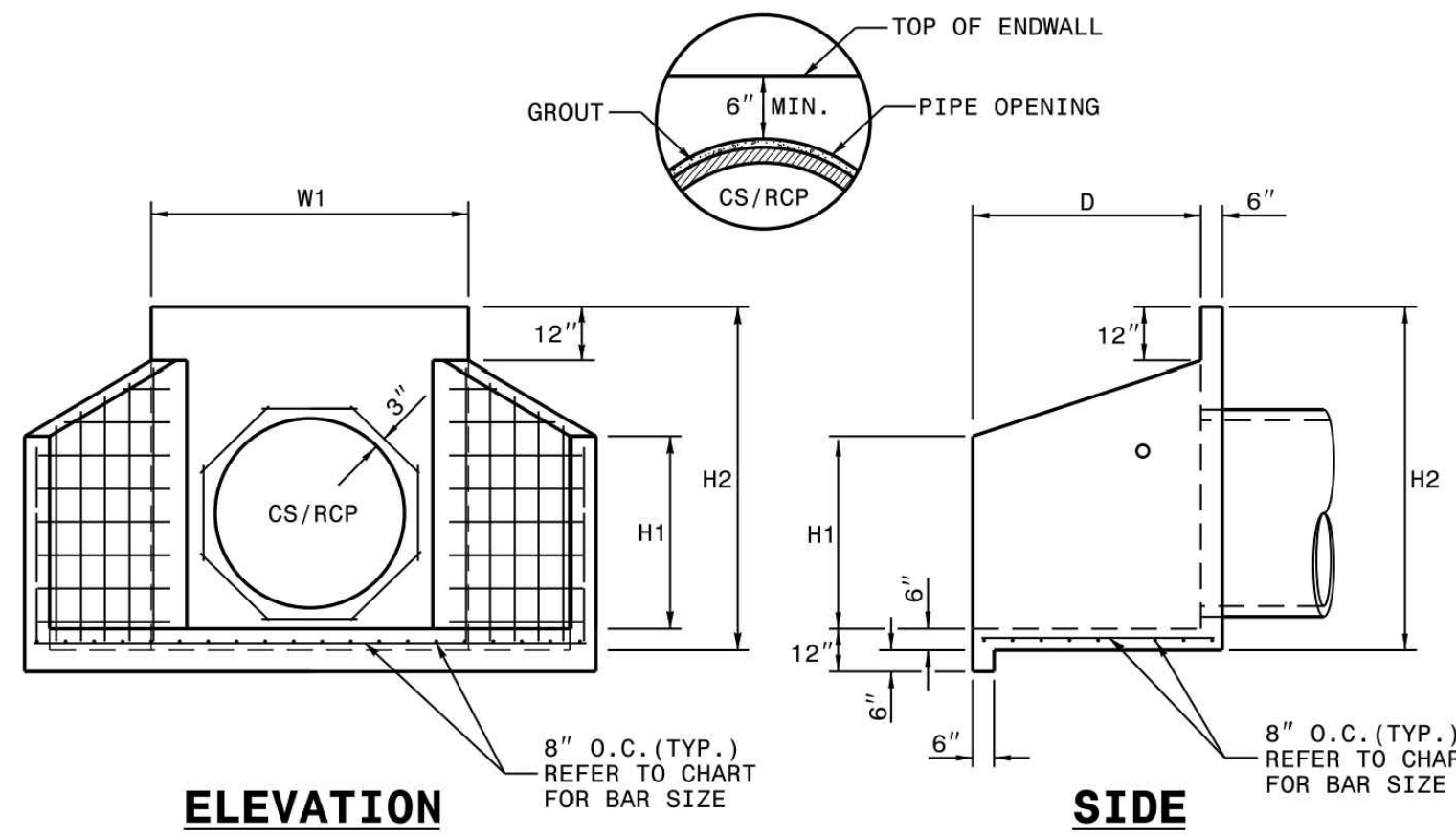
1-241 ROADWAY STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 SHEET 1 OF 1 840.14



1-241 ROADWAY STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG. S 840.14 AND 840.15
 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 SHEET 1 OF 1 840.16

DROP INLET DETAIL

N.T.S.



NOTES:
 * THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33, 838.39, 838.51, 838.57, 838.63 AND 838.69.
 * INSTALL PRECAST ENDWALLS WITH WINGS AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.
 * USE 4000 PSI CONCRETE.
 * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE.
 * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 * PIPE TO BE GROUTED INTO ENDWALL AT JOB SITE BY CONTRACTOR.
 * ALL ELEMENTS PRECAST TO MEET ASTM C913.
 * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
 * CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

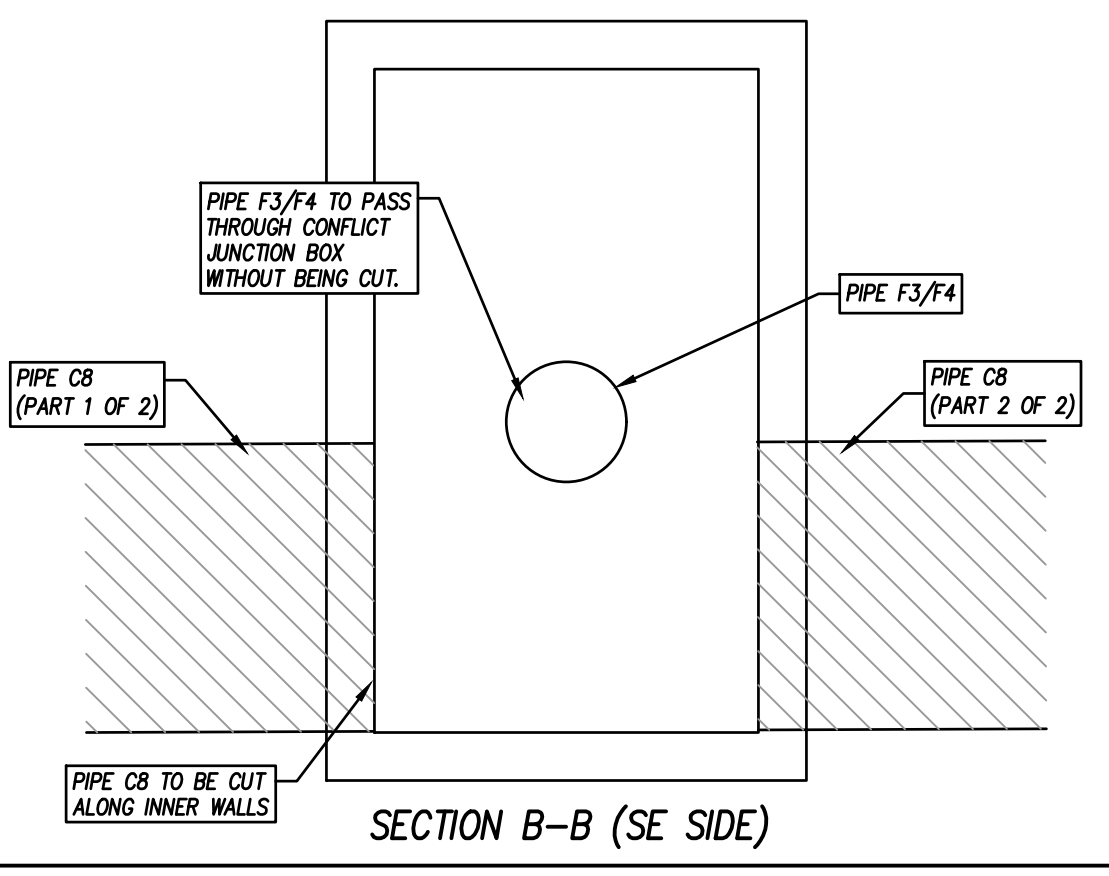
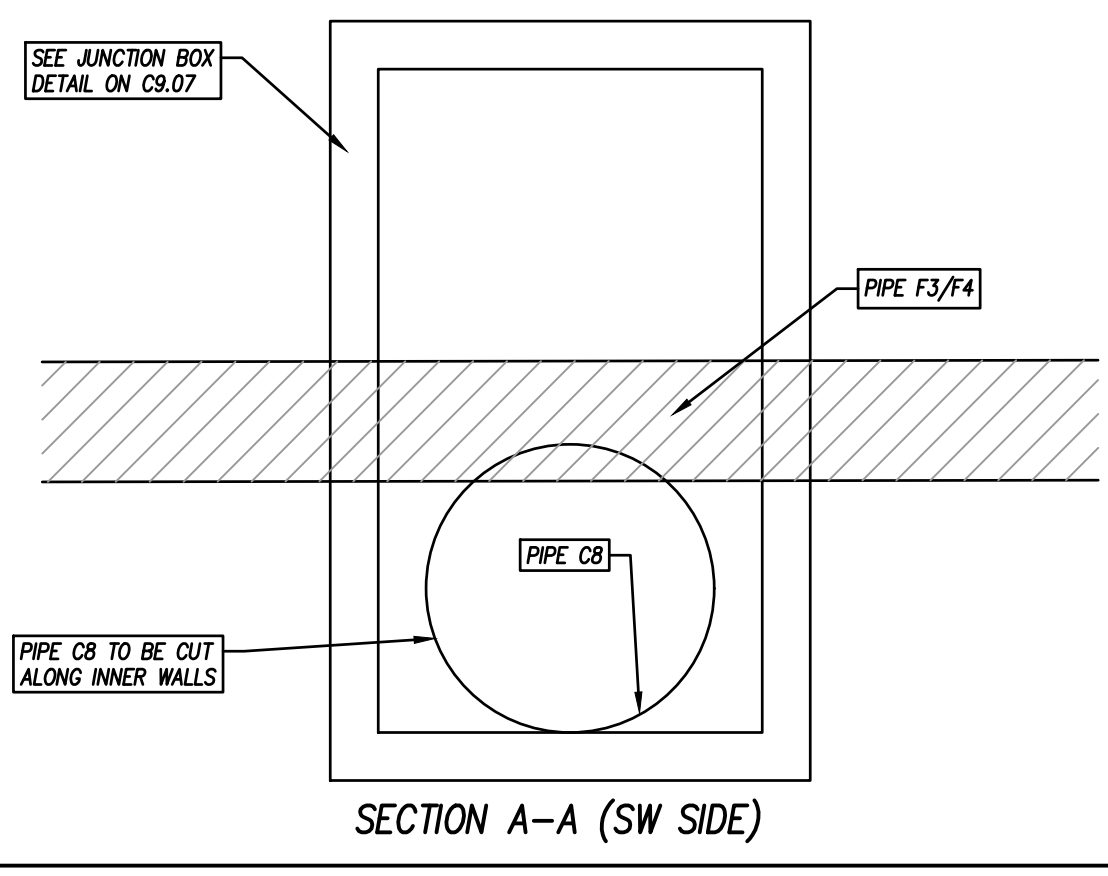
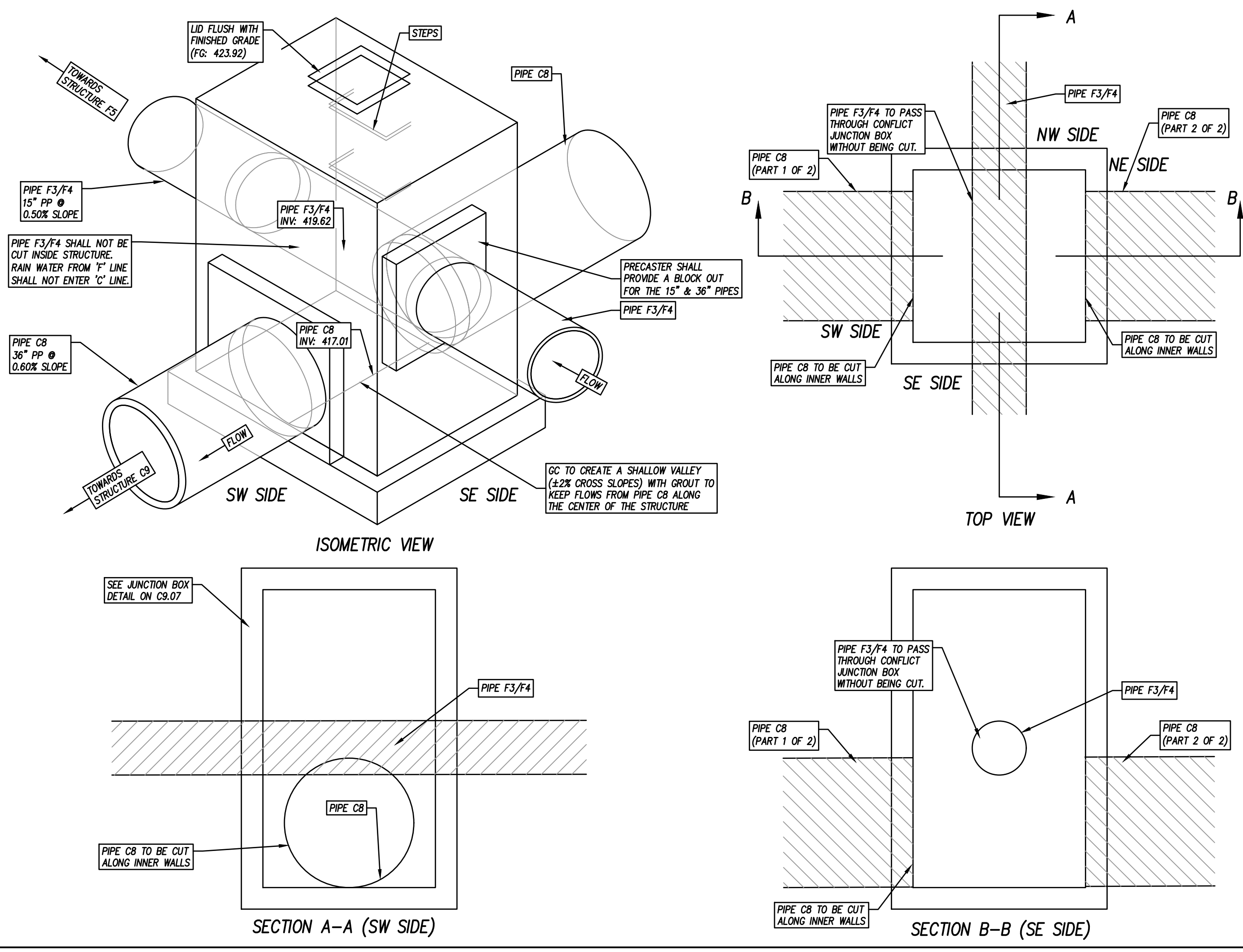
NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS. THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.

ENDWALL DIMENSIONS						
PIPE DIA.	BAR SIZE	H1	H2	D	W1	W2
12"	#5 @ 8"	15"/24"	33"/45"	15"/21"	36"/45"	66"/72"
15"	#5 @ 8"	15"/24"	37"/45"	15"/24"	42"/45"	78"/81"
18"	#5 @ 8"	15"/24"	40"/51"	15"/30"	42"/45"	78"/81"
24"	#5 @ 8"	18"/32"	47"/57"	21"/30"	48"/51"	90"/99"
30"	#5 @ 8"	30"/42"	54"/72"	24"/36"	54"/66"	120"/138"
36"	#5 @ 8"	36"/42"	61"/72"	33"/42"	63"/69"	138"/141"
42"	#5 @ 8"	39"/52"	68"/81"	39"/42"	72"/81"	144"/159"
48"	#5 @ 8"	42"/52"	75"/84"	39"/42"	78"/81"	156"/159"
54"	#5 @ 8"	48"/60"	82"/102"	39"/48"	84"/111"	162"/189"
60"	#5 @ 8"	54"/60"	89"/102"	39"/48"	89"/111"	165"/189"
66"	#5 @ 8"	54"/60"	96"/102"	39"/48"	96"/111"	168"/189"
72"	#5 @ 8"	54"/60"	103"/108"	39"/48"	103"/111"	177"/201"

1-241 ROADWAY STANDARD DRAWING FOR PRECAST CONCRETE ENDWALL FOR SINGLE 12" THRU 72" PIPE - 90° SKEW
 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 SHEET 1 OF 1 838.80

HEADWALL DETAIL

N.T.S.



CONFLICT JUNCTION BOX (STRUCTURE F4) DETAIL

N.T.S.



PRELIMINARY PLANS FOR REVIEW ONLY

Rolesville Town Campus Infrastructure Package
 408 EAST YOUNG STREET, ROLESVILLE, NC
 PERMIT SET
 Town of Rolesville
 CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
 DRAWN BY: PH, LM
 DATE: 22-JAN-2026
 PROJECT NO: 22-205

UTILITY DETAILS

C-9.06



PRELIMINARY PLANS
FOR REVIEW ONLY

Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

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UTILITY DETAILS

C-9.07

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PARALLEL PIPE END SECTION
PREFABRICATED STEEL SECTION FOR 15" TO 24" PIPE

SHEET 1 OF 1
310.04

DRIVEWAY PIPE TYPICAL SECTION

END TREATMENT DIMENSIONS

D	L	W	THICK. GAGE
15"	2'-6"	1'-9"	16 MIN.
18"	4'-0"	2'-0"	16 MIN.
24"	7'-0"	2'-6"	16 MIN.

STEEL END SECTION

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
CROSS PIPE END SECTION
PREFABRICATED STEEL SECTION FOR 18" TO 30" PIPE

SHEET 1 OF 1
310.05

ROADWAY CROSS PIPE TYPICAL SECTION

END TREATMENT DIMENSIONS

D	L	W	THICK. GAGE
18"	2'-8"	2'-0"	16 MIN.
24"	4'-8"	2'-6"	16 MIN.
30"	6'-8"	3'-0"	16 MIN.

STEEL END SECTION

NOTE:
PREFABRICATED STEEL END SECTION AND ALL PARTS
WILL MEET THE REQUIREMENTS OF AASHTO M-218.

FLAIED END SECTION DETAIL

N.T.S.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR DOUBLE FRAME AND GRATES

SHEET 1 OF 2
840.35

SECTION X-X
BRICK ALT.

SECTION Y-Y

SECTION X-X
CONCRETE ALT.

SECTION Y-Y

NOTES:
- HORIZONTAL AND VERTICAL DIMENSIONS MAY BE ADJUSTED AS THE FIELD CONDITIONS AND/OR ALTERNATE DESIGN REQUIRE.
- MAXIMUM HEIGHT FOR THIS STRUCTURE IS 14'-0".
- STD. DWG. 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
- MAKE ALL ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
- DEPTH OF STEEL GRATE WILL REQUIRE DEEPER SEAT ALONG SHORT WALLS.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR DOUBLE FRAME AND GRATES

SHEET 2 OF 2
840.35

PLAN OF BASE

STRAIGHT BARS

BASE BARS

CORNER BARS

BILL OF MATERIALS

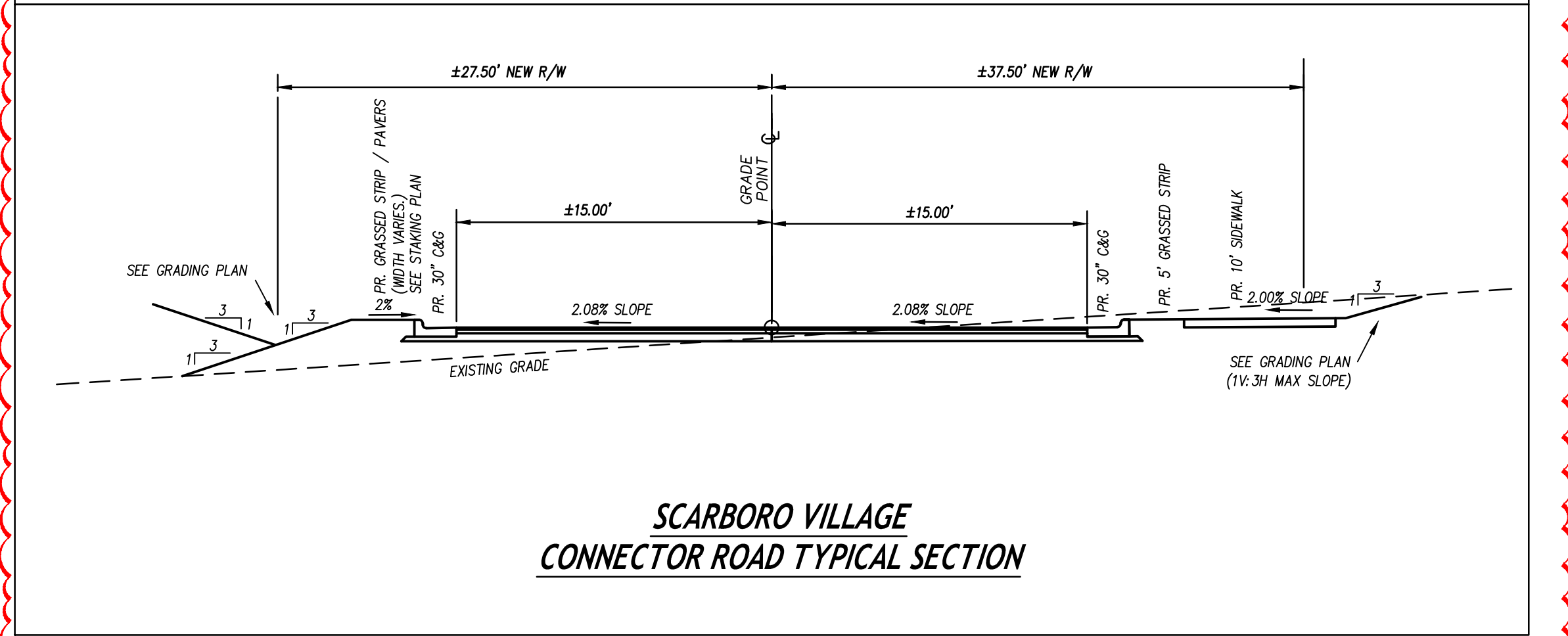
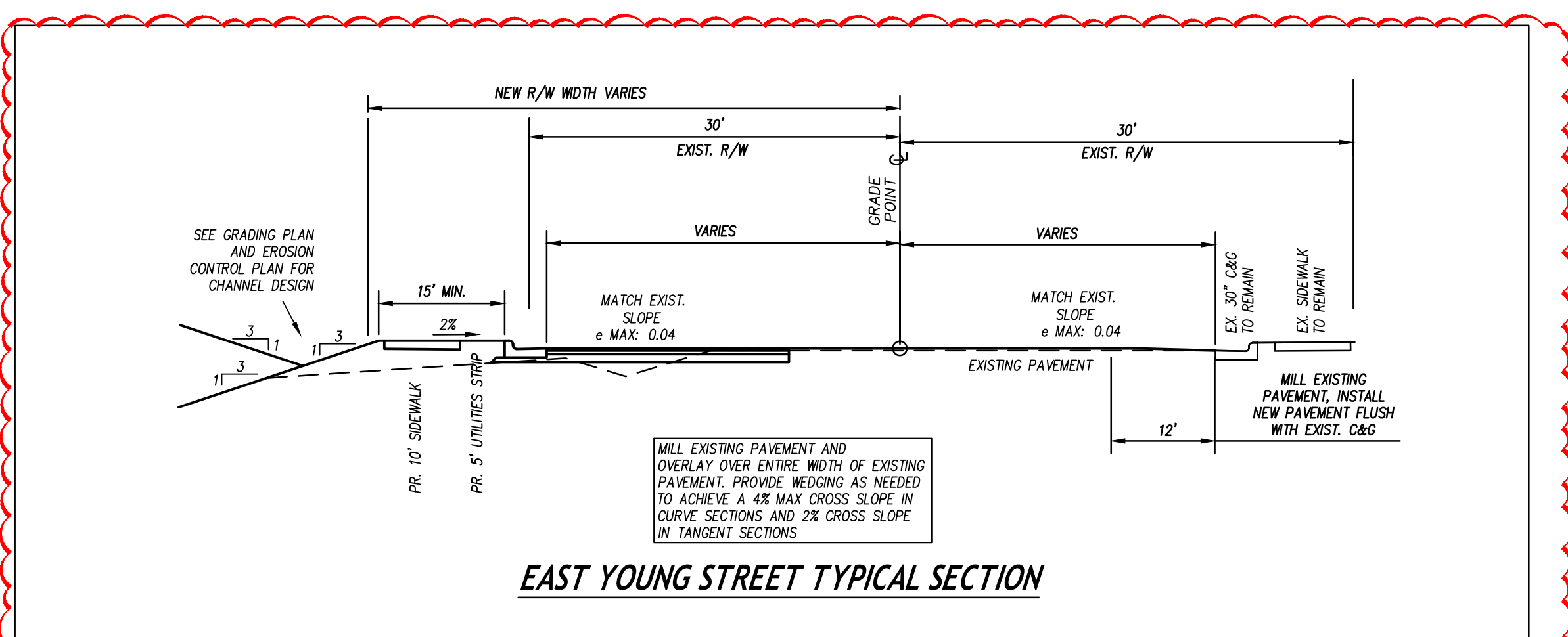
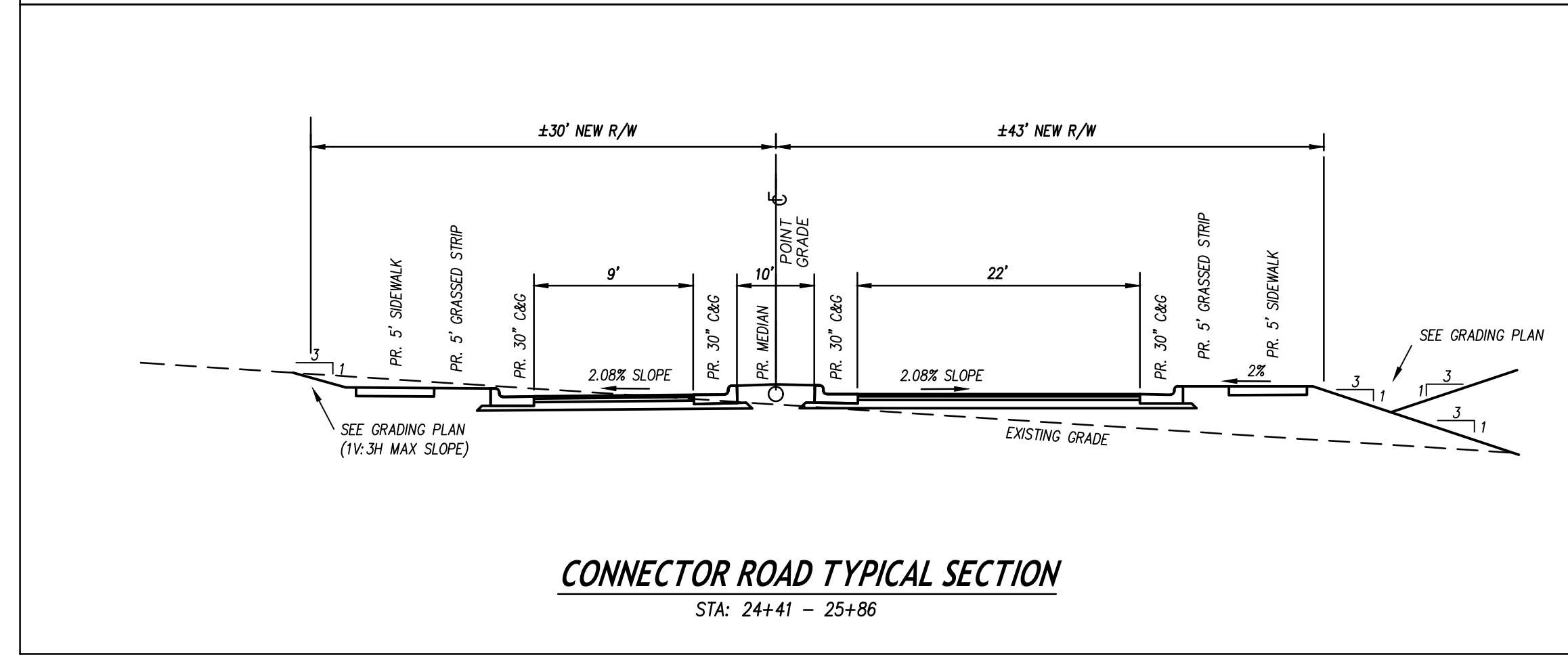
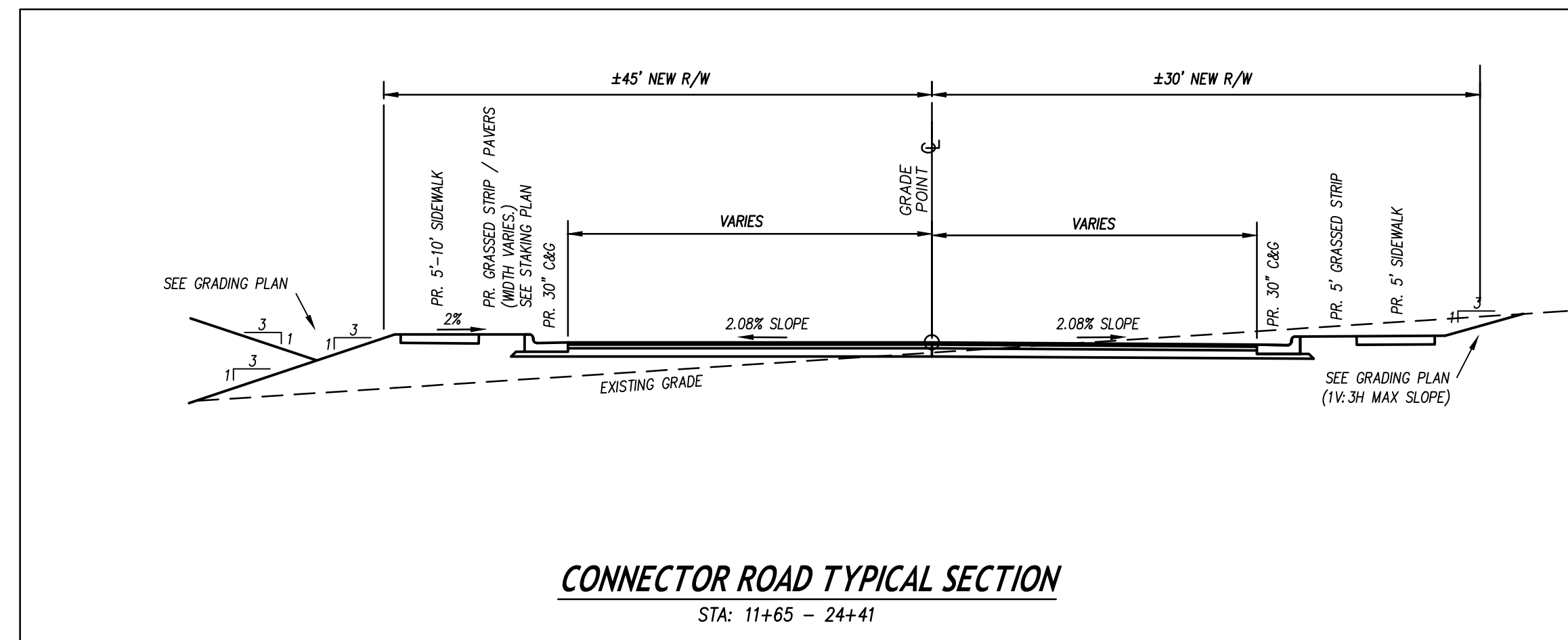
COMMON		CONCRETE ALT.		BRICK ALT.			
BAR	SIZE	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT
A	#5	6'-4 1/2"	6	39.9	7'-7 1/2"	6	47.7
B	#5	3'-4 1/2"	16	56.3	3'-4 1/2"	16	56.3
C	#5	2'-8"	14	38.9	-0-	-0-	-0-
D	#5	8'-0 1/2"	4	33.6	9'-3 1/2"	4	38.8
E	#5	3'-0"	20	62.6	3'-0"	10	31.3
F	#5	4'-8"	20	97.3	4'-8"	10	48.7
REINF. STEEL (TOTAL WEIGHT LBS.)				328.6	222.8		
CONCRETE IN BASE CLASS 'AA' (CUBIC YARDS)				0.56	0.66		
CONCRETE IN WALLS CLASS 'AA' (CUBIC YARDS)				0.92	-0-		
CONCRETE IN WALLS CLASS 'B' (CUBIC YARDS)				-0-	0.36		
BRICK IN WALLS (CUBIC YARDS)				-0-	0.91		
CONCRETE TOTAL (CUBIC YARDS)				1.48	1.02		
BRICK & CONCRETE TOTAL (CUBIC YARDS)				-0-	1.93		
CONC. CUBIC YARDS IN WALL/FOOT OF HEIGHT				0.35	0.14		
BRICK CUBIC YARDS IN WALL/FOOT OF HEIGHT				-0-	0.34		
LBS. OF REINF. STEEL IN WALL/FOOT OF HEIGHT				84.9	47.6		

GENERAL NOTES:
- USE CLASS 'AA' CONCRETE FOR CAST IN PLACE CONCRETE BOX.
- USE CLASS 'B' CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS 'AA' FOR THE FOOTING BASE.
- CHAMFER ALL EXPOSED CONCRETE CORNERS 1".
- USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
- IF PIPES ARE SET IN THE BASE FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD. DWG. 840.00.
- PRECAST UNITS MADE OF CLASS 'AA' CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION.
- INCLUDE REINFORCING STEEL COST IN THE UNIT OR LINEAR FOOT BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
- REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
- CONCRETE BRICK, JUMBO BRICK AND 4" SOLID CONCRETE BLOCK WILL BE PERMITTED.
- CONCRETE FOR BRICK BOX REFER TO SECTION 832 OF THE STANDARD SPECIFICATIONS.
- PROVIDE GRATED DROP INLETS OVER 3'-6" DEEP WITH STEPS SPACED 12" ON CENTER AS DIRECTED BY STD. DWG. 840.66.
- FRAME AND GRATES ARE SEPARATE CONTRACT ITEMS.

DOUBLE INLET DETAIL

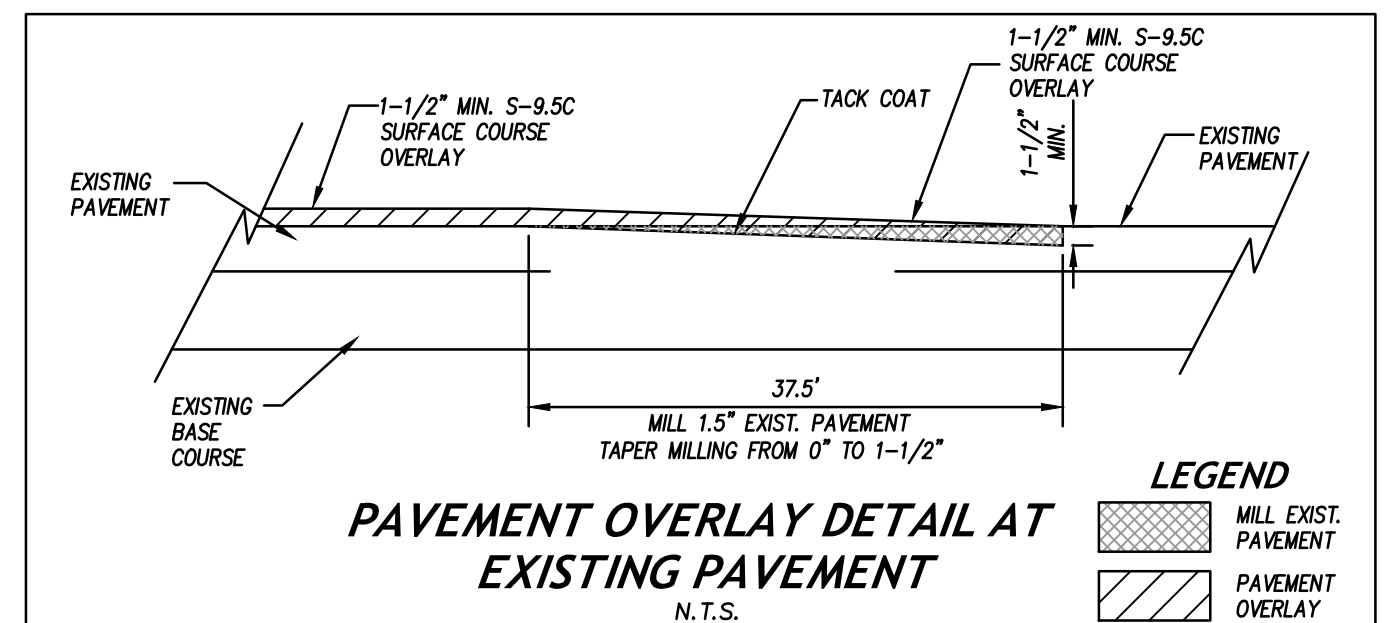
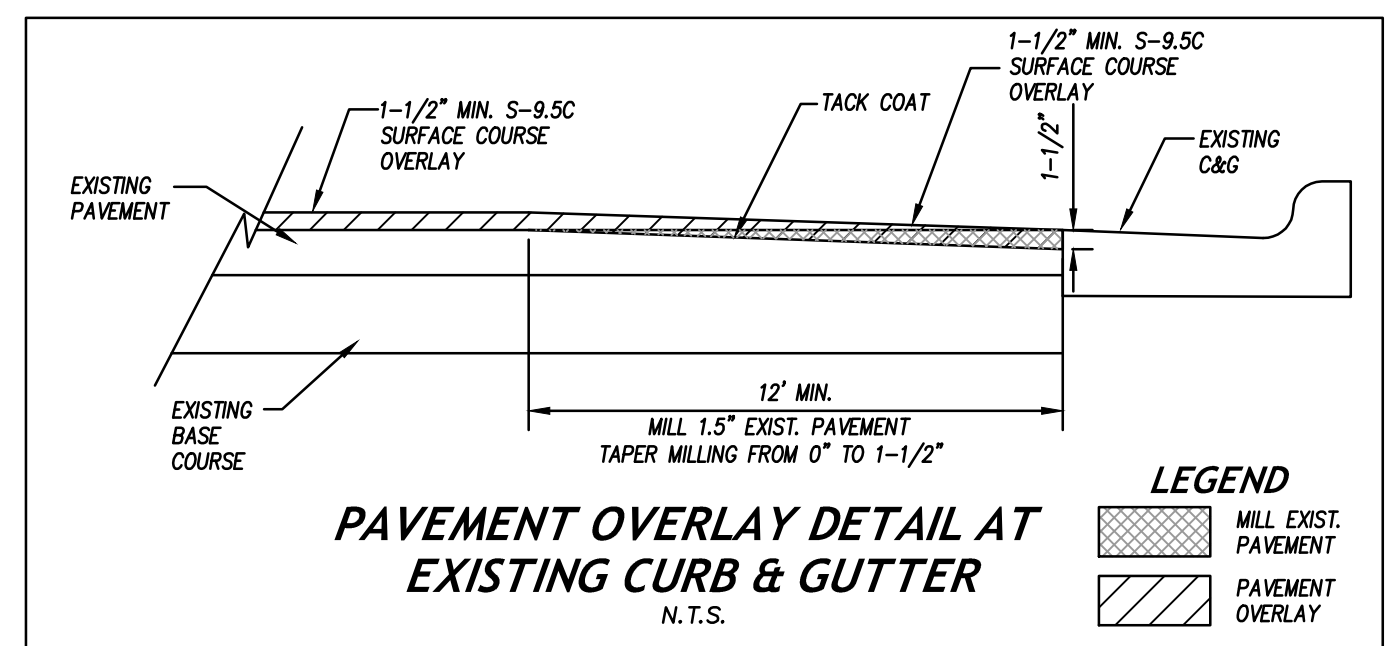
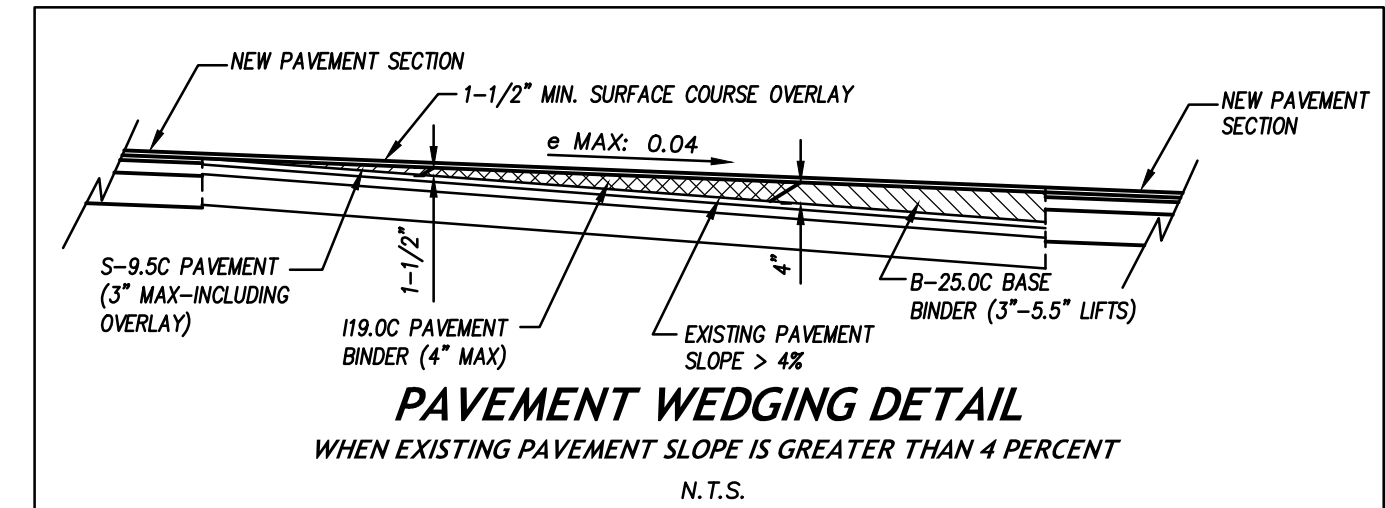
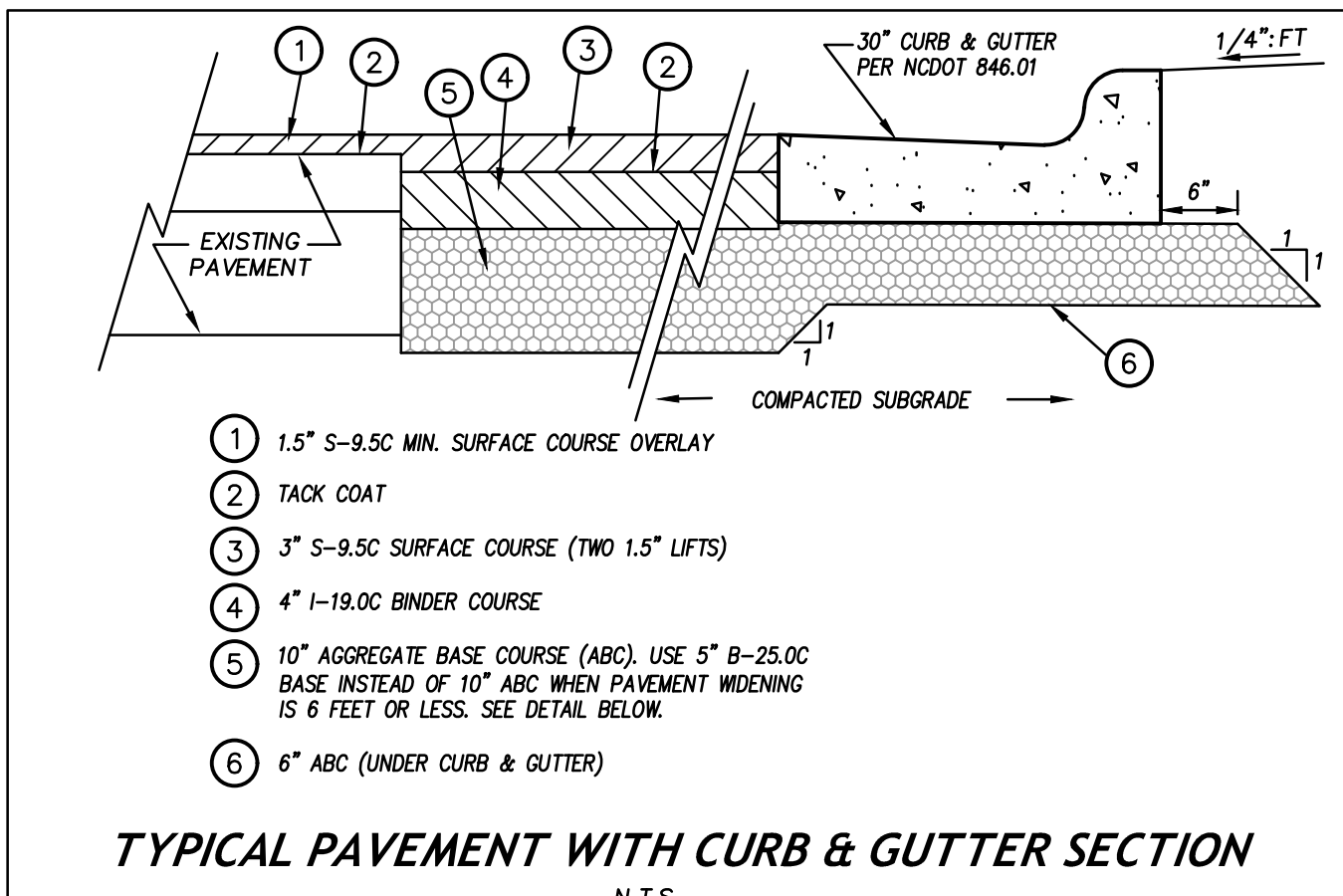
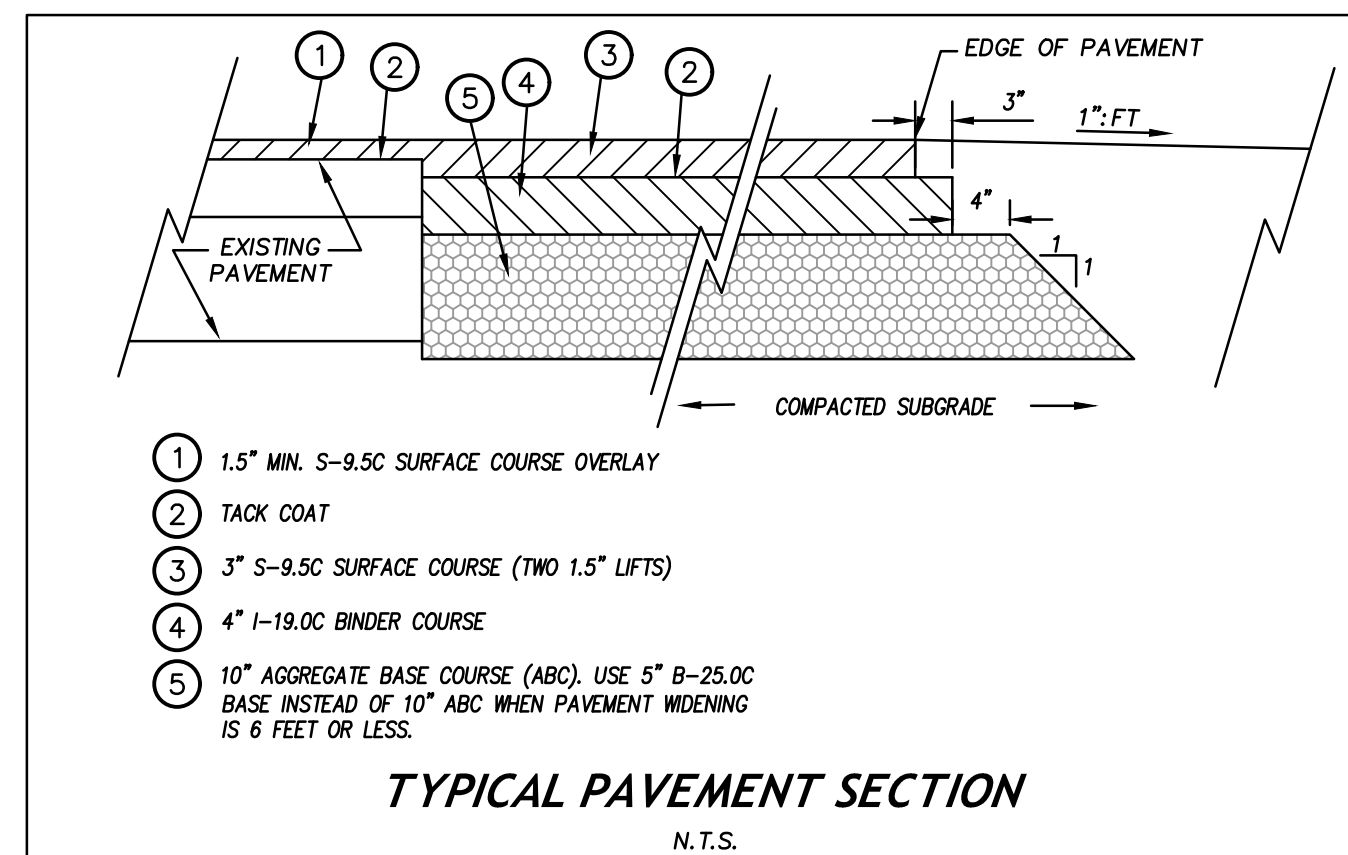
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NOTE: SEE DETAIL 840.03 FOR CATCH BASIN GRATE DETAIL



PLAN AND PROFILE GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NCDOT DIVISION OF HIGHWAYS' STANDARDS AND SPECIFICATION MANUALS.
2. MAINTAIN TRAFFIC AND PROVIDE PROPER SIGNS, SIGNALS, LIGHTS, FLAGMEN AND OTHER WARNING DEVICES FOR THE PROTECTION OF TRAFFIC IN CONFORMANCE WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
3. OBTAIN AND KEEP ON-SITE A COPY OF THE NCDOT ENCROACHMENT AGREEMENT. ENSURE ALL CONDITIONS OF THE AGREEMENT ARE MET.
4. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. EXISTING STRUCTURES DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED AND OR REINSTALLED TO THE ORIGINAL OR BETTER CONDITION.
7. REPLACE DRIVEWAY STORM PIPE. MATCH EXISTING SIZE, MATERIAL AND SLOPE UNLESS OTHERWISE SHOWN ON GRADING PLAN. ALL DRIVEWAYS AND DRIVEWAY PIPES DISTURBED DURING CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL OR BETTER CONDITION. ENSURE POSITIVE DRAINAGE FOR ALL DRIVEWAY PIPES DISTURBED DURING CONSTRUCTION.
8. MILL EXISTING PAVEMENT TO 1-1/2" DEPTH MIN. TO ALLOW FOR A SMOOTH TRANSITION WHERE OVERLAY ABUTS EXISTING PAVEMENT GRADE.
9. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. EXISTING SIGNS/MAILBOXES/STRUCTURES/FENCING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AND OR REINSTALLED TO THE ORIGINAL OR BETTER CONDITION.
11. OFF SITE WORK HOURS SHALL COMPLY WITH THE NCDOT ENCROACHMENT AGREEMENT. THESE HOURS ARE 9:00 AM TO 4:00 PM.
12. ALL STORM PIPES SHALL BE CLASS III OR CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
13. MILL 1-1/2" MIN. AND INSTALL 1-1/2" MIN. S-9.5C OVERLAY IN ALL LOCATIONS WHERE NEW PAVEMENT MARKINGS ARE PLACED ON EXISTING PAVEMENT.
14. SEE SPECIFICATIONS FOR WEDGING ALLOWANCE AND UNIT PRICES.



NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
 DRAWN BY: PH, LM
 DATE: 22-JAN-2026
 PROJECT NO: 22-205

**ROADWAY TYPICAL
 CROSS-SECTIONS &
 GENERAL NOTES**



PRELIMINARY PLANS
FOR REVIEW ONLY

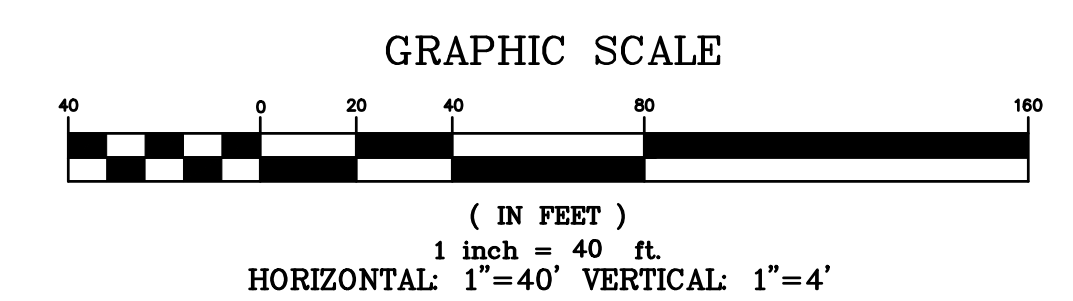
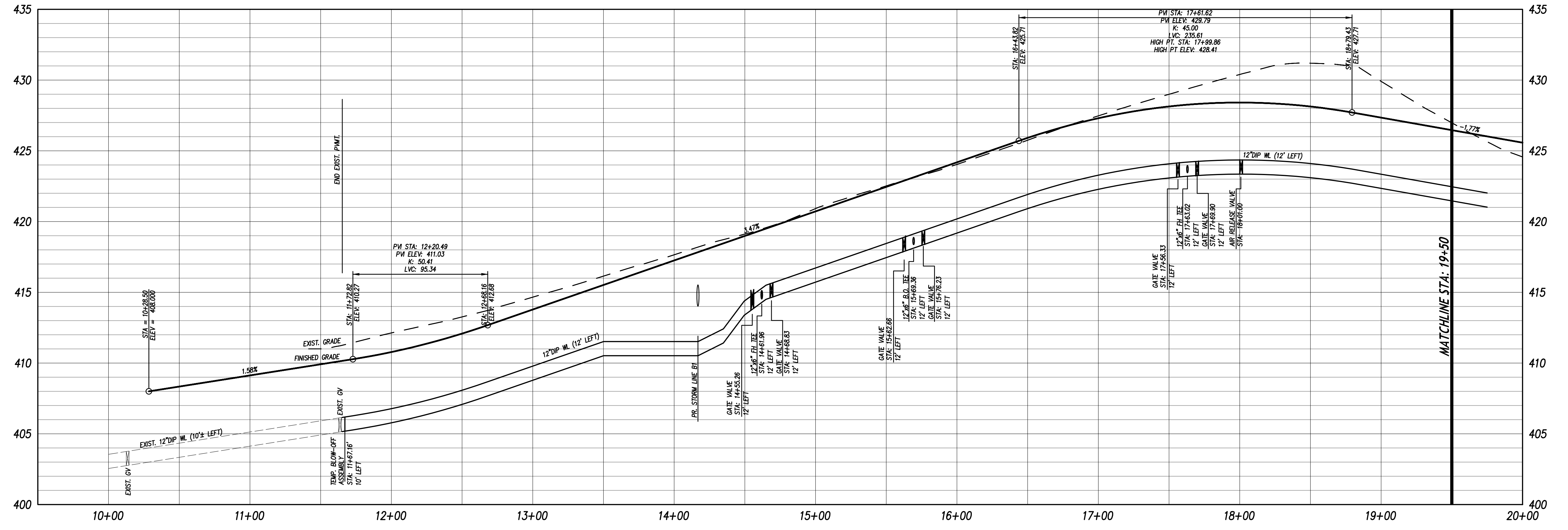
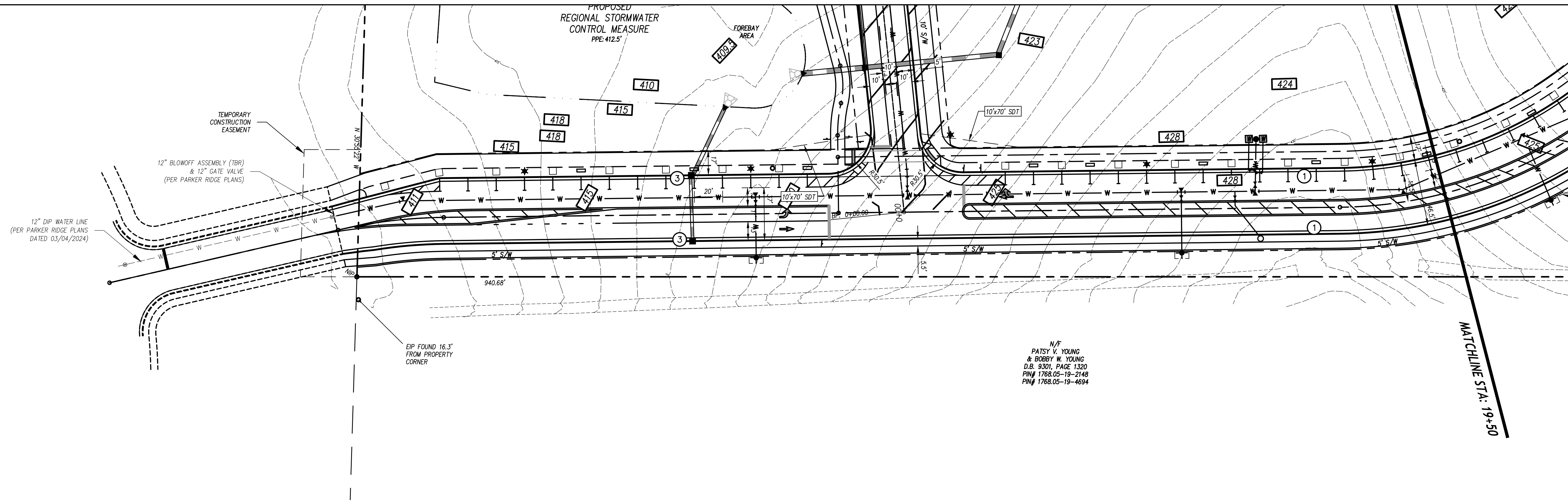
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

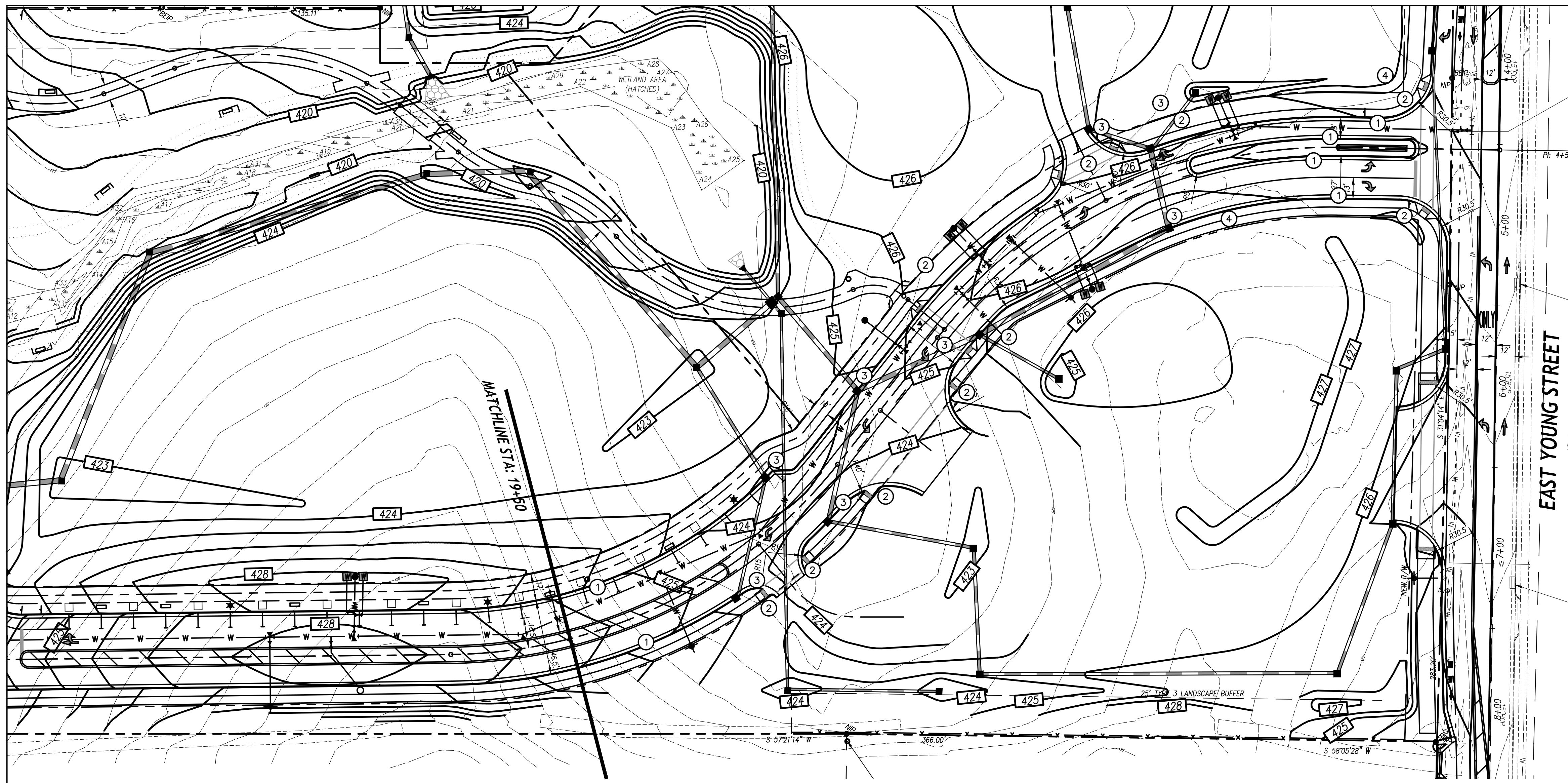
NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

CONNECTOR ROAD PROFILE AREA A

C-10.01





10' TEMPORARY CONSTRUCTION EASEMENT D.B. 1293, PG. 1214-1218 (TERMINATED)

PI: 4+53.35

CB TOP: 426.40'
IN: 422.95'
OUT: 422.80'

CB TOP: 424.30'
IN: 421.00'
OUT: 420.80'

60' PUBLIC R/W

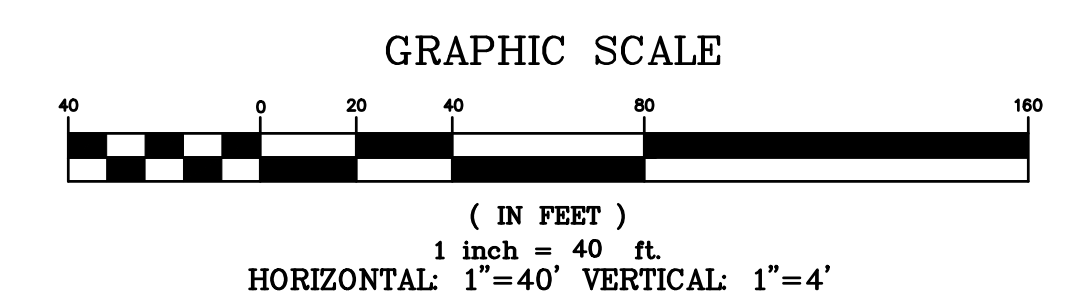
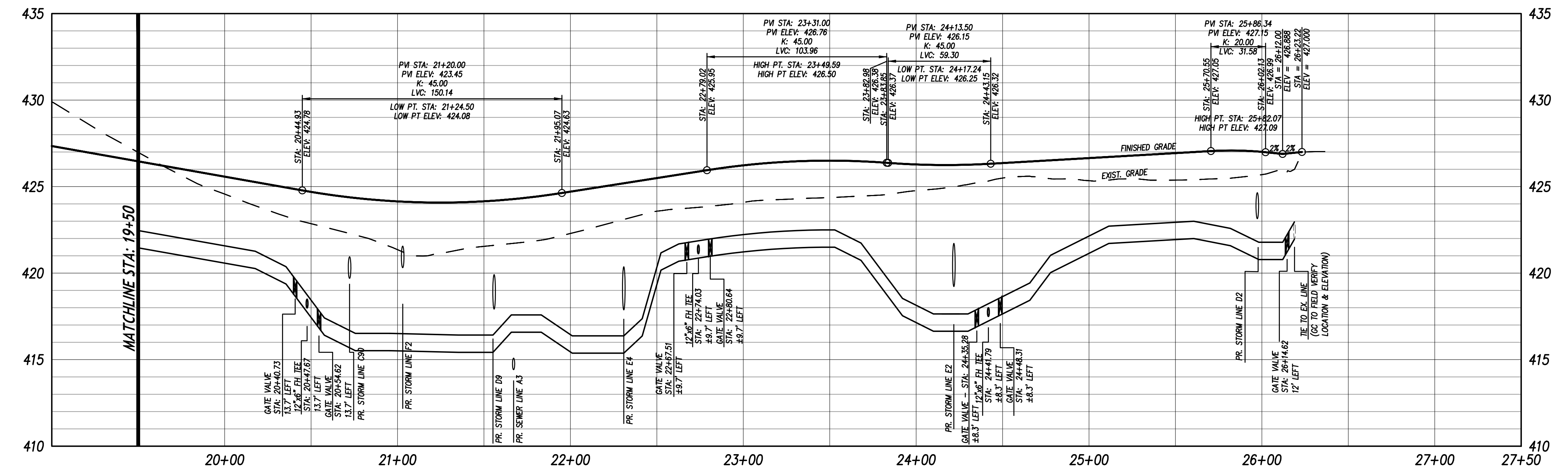
EAST YOUNG STREET (S.R.#1003)

DESIGN SPEED: 40 MPH
POSTED SPEED: 35 MPH

KEY NOTES

- 1 30" CONCRETE CURB & GUTTER, NCDOT STD. 846.01.
- 2 CURB RAMP, NCDOT STD. 848.06.
- 3 CONCRETE CATCH BASIN, NCDOT STD. 840.02.
- 4 CONCRETE DROP INLET, NCDOT STD. 840.14.

SEE SHEETS C11.00-C-11.02 FOR NCDOT STANDARD DETAILS.



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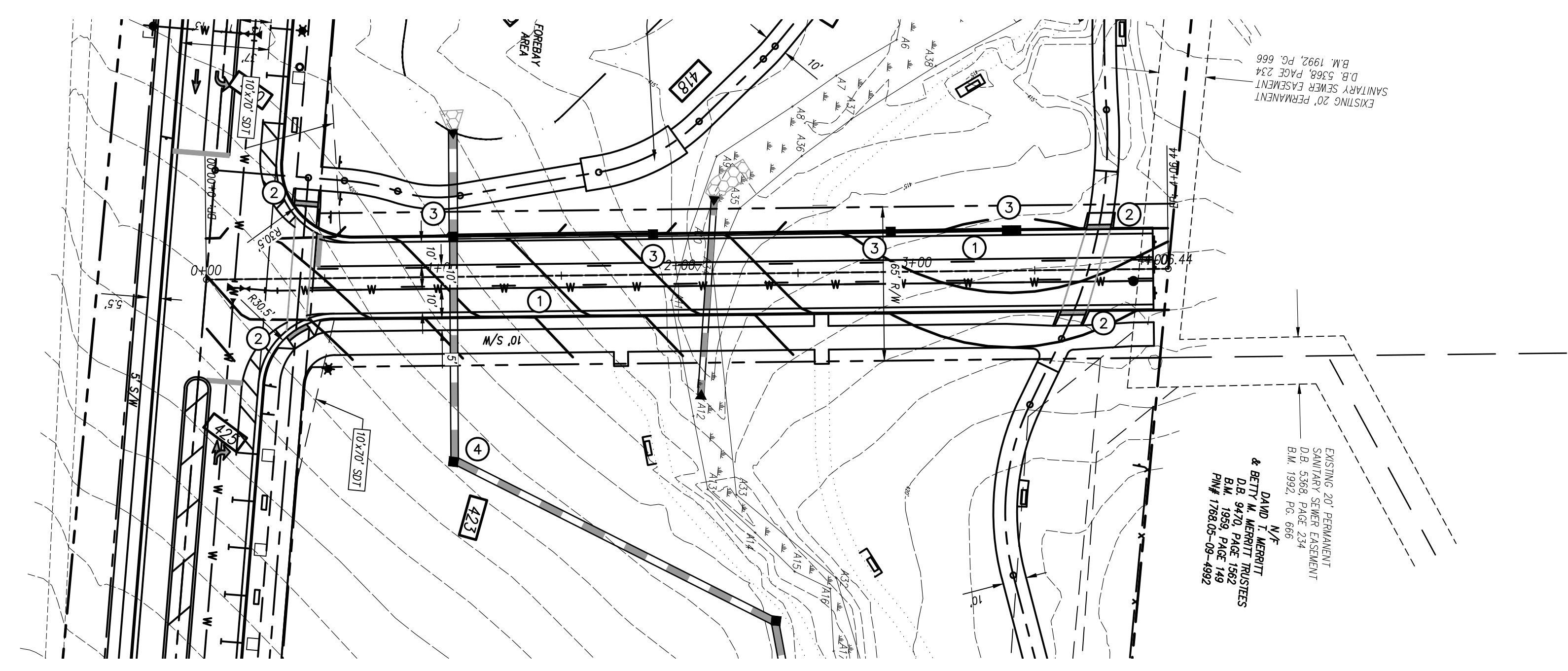
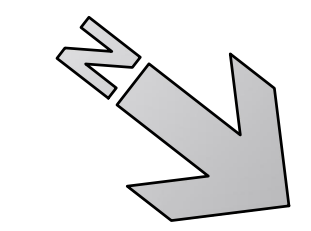
**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
CID-25-07

NO.	DATE	DESCRIPTION

DESIGNED BY: KL, RW
DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**CONNECTOR
ROAD PROFILE
AREA B**

C-10.02

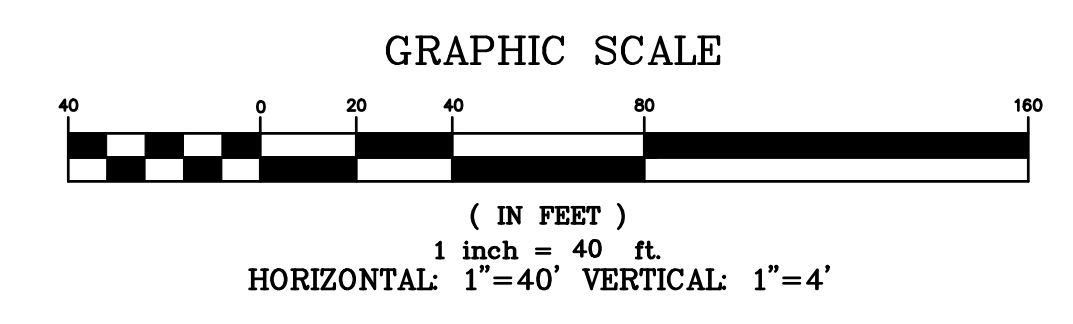
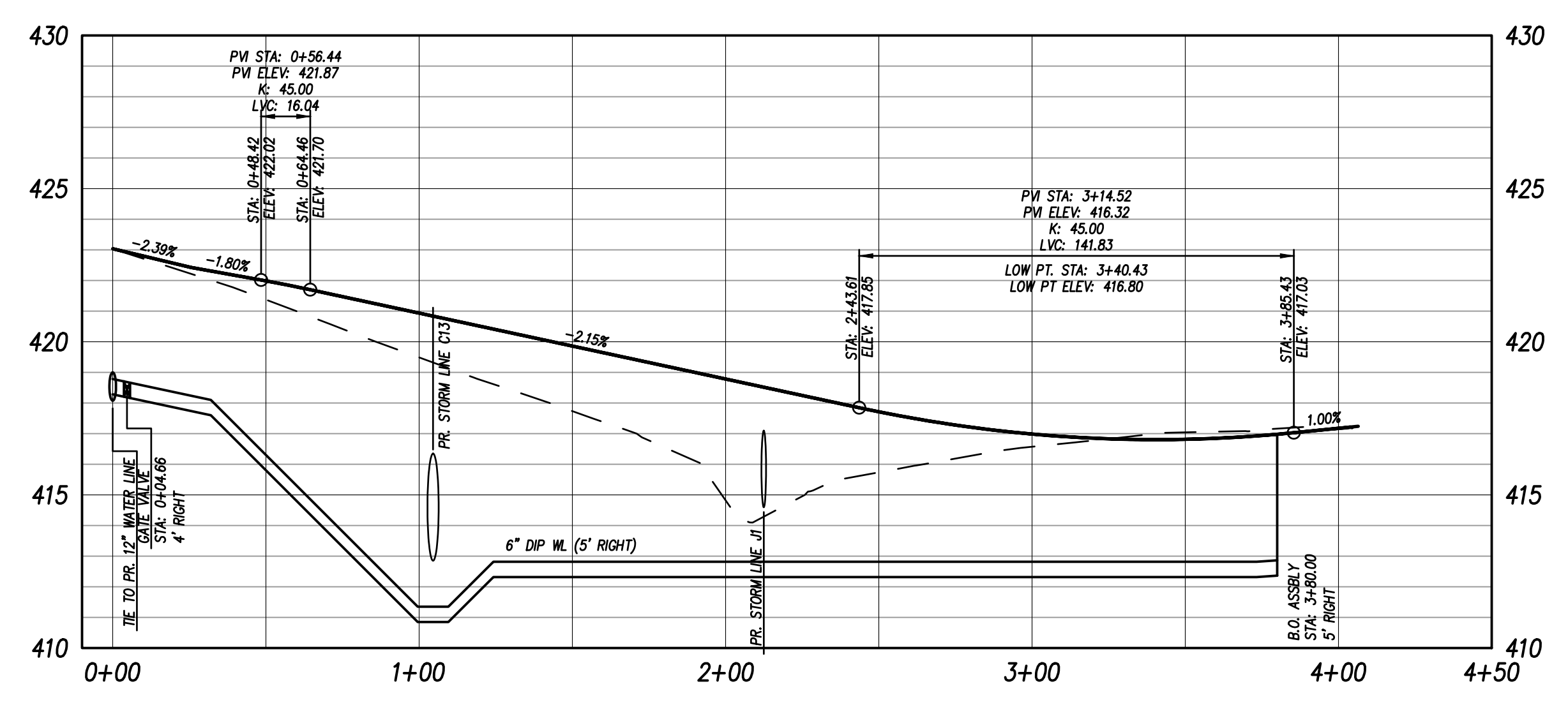


DESIGN SPEED: 40 MPH
POSTED SPEED: 35 MPH

KEY NOTES

- ① 30" CONCRETE CURB & GUTTER, NCDOT STD. 846.01.
- ② CURB RAMP, NCDOT STD. 848.06.
- ③ CONCRETE CATCH BASIN, NCDOT STD. 840.02.
- ④ CONCRETE DROP INLET, NCDOT STD. 840.14.

SEE SHEETS C11.00-C-11.02 FOR NCDOT STANDARD DETAILS.



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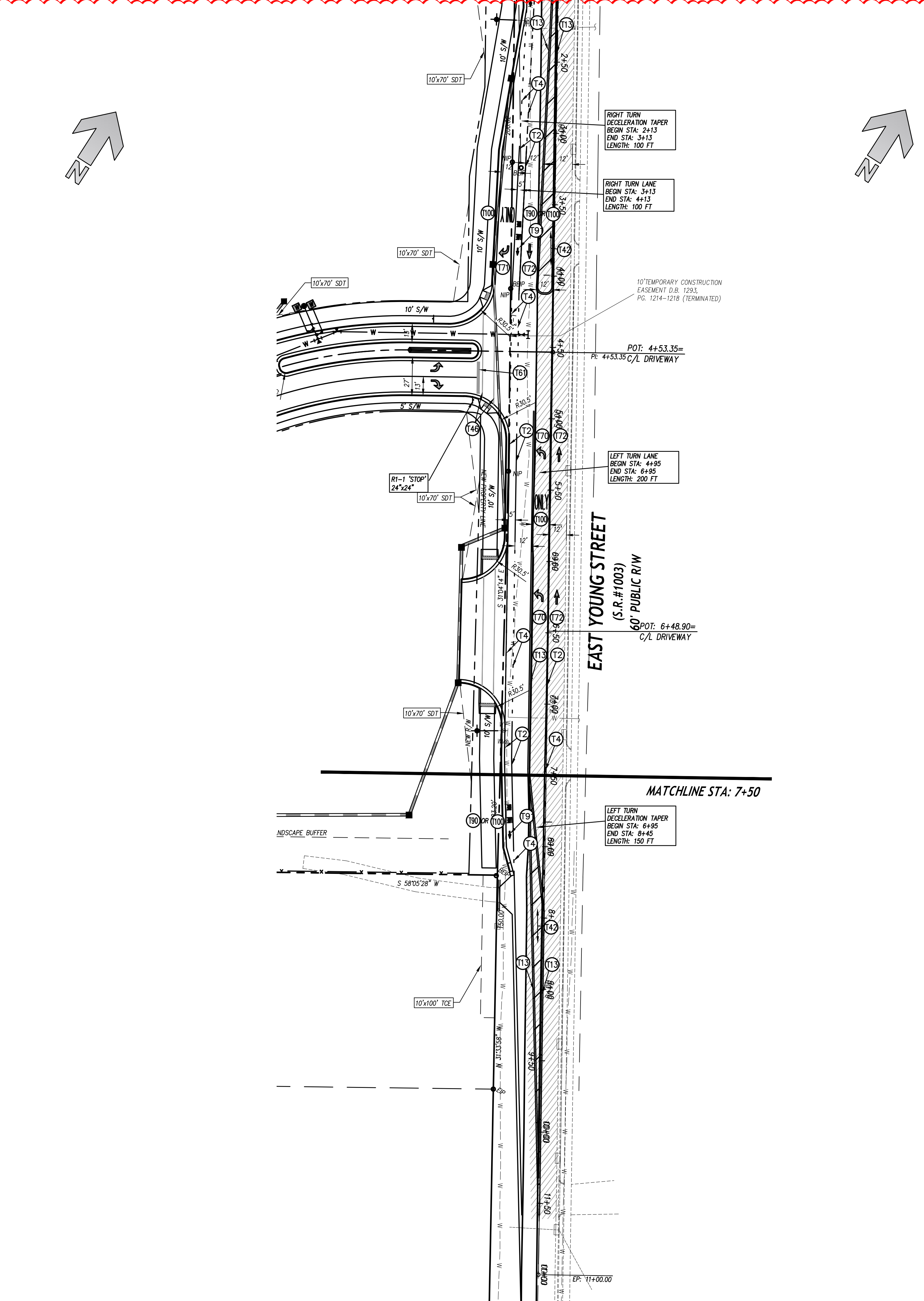
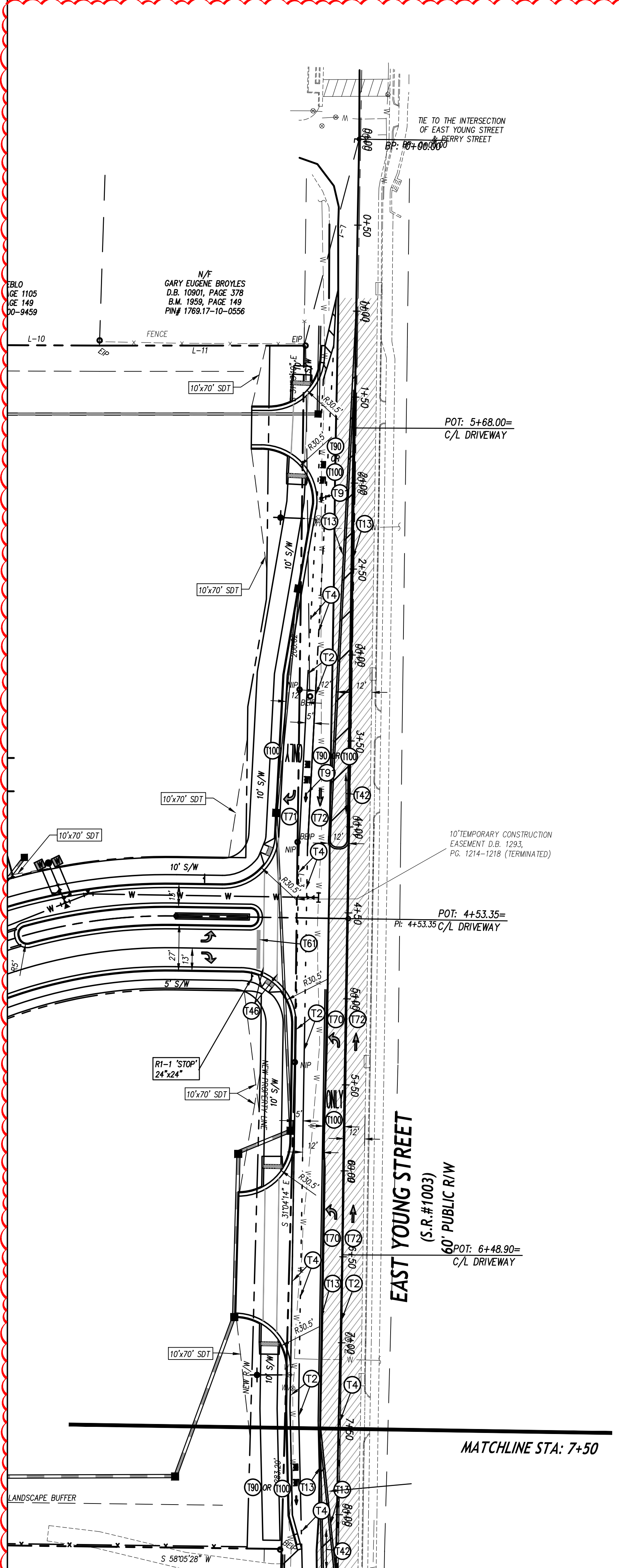
Rolesville Town Campus
Infrastructure Package
408 EAST YOUNG STREET, ROLESVILLE, NC
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SCARBORO
VILLAGE
CONNECTOR
ROAD PROFILE

C-10.03



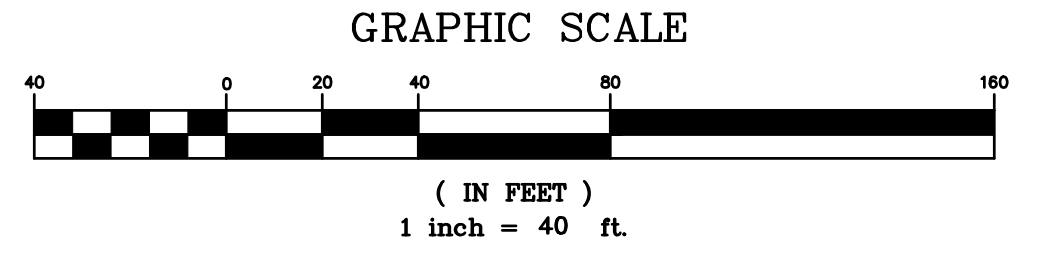
DESIGN SPEED: 40 MPH
POSTED SPEED: 35 MPH

PAVEMENT MARKING KEY NOTES

KEY	MARKING	NCDOT STD.	SIZE	COLOR
(EX)	EXISTING MARKING			
(L2)	SOLID LANE LINE	1205.01	4-IN	WHITE
(T4)	MINISKIP (3'-9" TYPE)	1205.01	4-IN	WHITE
(T12)	YELLOW SKIP (10'-30" TYPE)	1205.01	4-IN	YELLOW
(T13)	DOUBLE YELLOW	1205.01	4-IN	YELLOW
(T21)	SOLID LANE LINE	1205.01	6-IN	WHITE
(T23)	MINISKIP (3'-9" TYPE)	1205.01	6-IN	WHITE
(T41)	DIAGONAL	1205.01	8-IN	WHITE
(T42)	DIAGONAL	1205.01	8-IN	YELLOW
(T46)	CROSSWALK	1205.01	8-IN	WHITE
(T61)	STOPBAR	1205.01	24-IN	WHITE
(T71)	LEFT TURN ARROW	1205.08	STD.	WHITE
(T72)	RIGHT TURN ARROW	1205.08	STD.	WHITE
(T73)	STRAIGHT ARROW	1205.08	STD.	WHITE
(T74)	COMBO RIGHT STRAIGHT ARROW	1205.08	STD.	WHITE
(T75)	COMBO LEFT/RIGHT ARROW	1205.08	STD.	WHITE
(T76)	COMBO LEFT/RIGHT/STRAIGHT	1205.08	STD.	WHITE
(T91)	BICYCLE SYMBOL	1205.08	STD.	WHITE
(T92)	BICYCLE STRAIGHT ARROW	1205.08	STD.	WHITE
(T93)	ALPHANUMERIC CHARACTER	1205.08	STD.	WHITE
(Hatched)	MILL EXISTING PAVEMENT FOR OVERLAY, SEE DETAIL ON SHEET C10.0.			

NOTE: "BIKE LANE" (T100) CAN BE REPLACED BY T90 (BICYCLE SYMBOL) PER OWNER/NCDOT PREFERENCE.

SEE SHEETS C11.00-C-11.02 FOR NCDOT STANDARD DETAILS.



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REVISIONS

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DATE: 22-JAN-2026
PROJECT NO: 22-205

**PAVEMENT
MARKINGS &
SIGNAGE PLAN -
EAST YOUNG ST**

C-10.11



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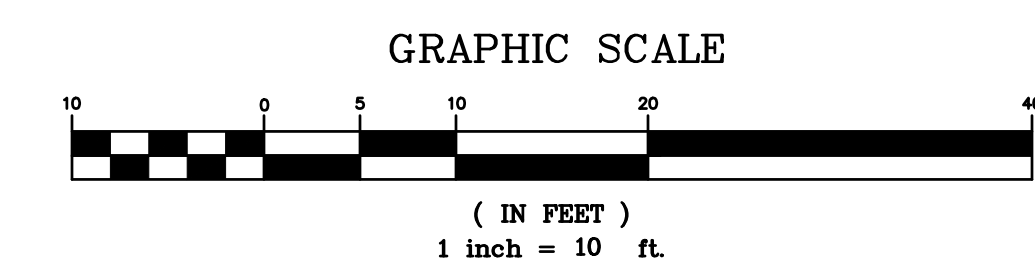
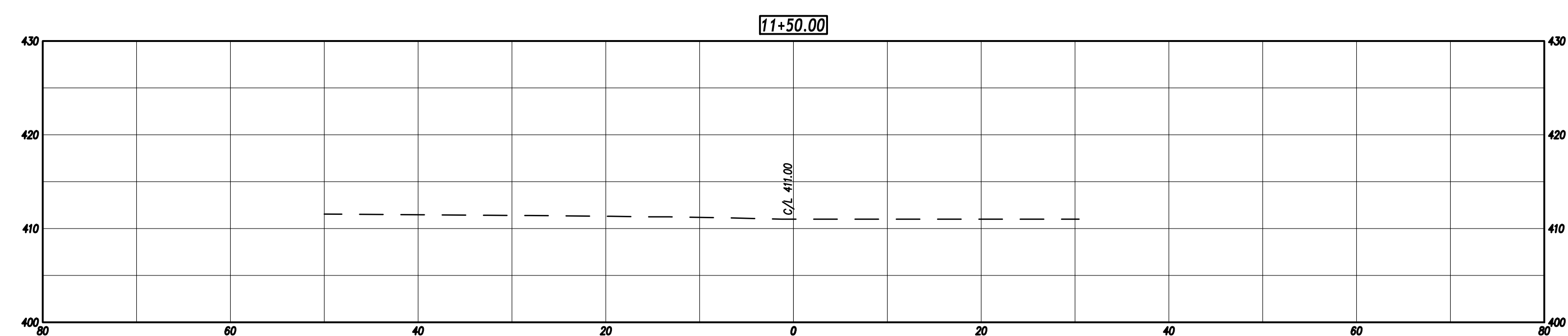
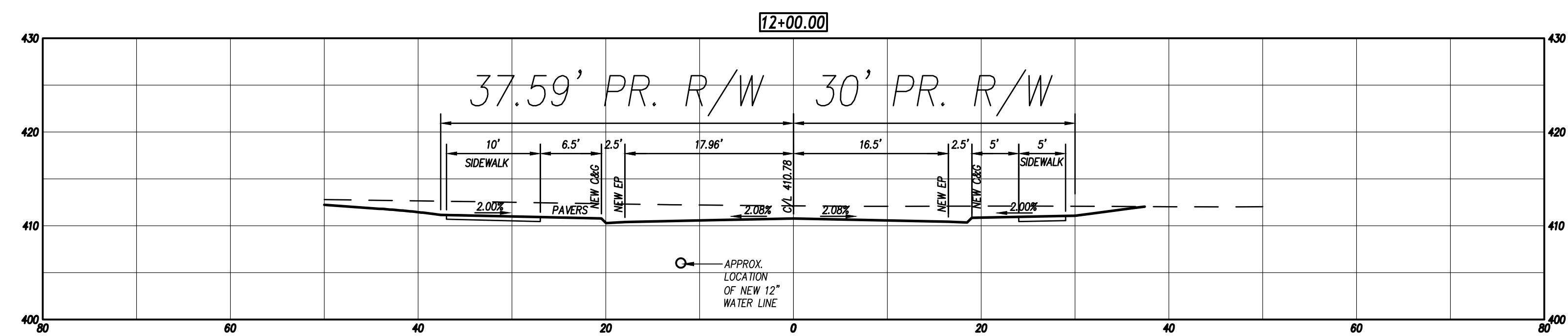
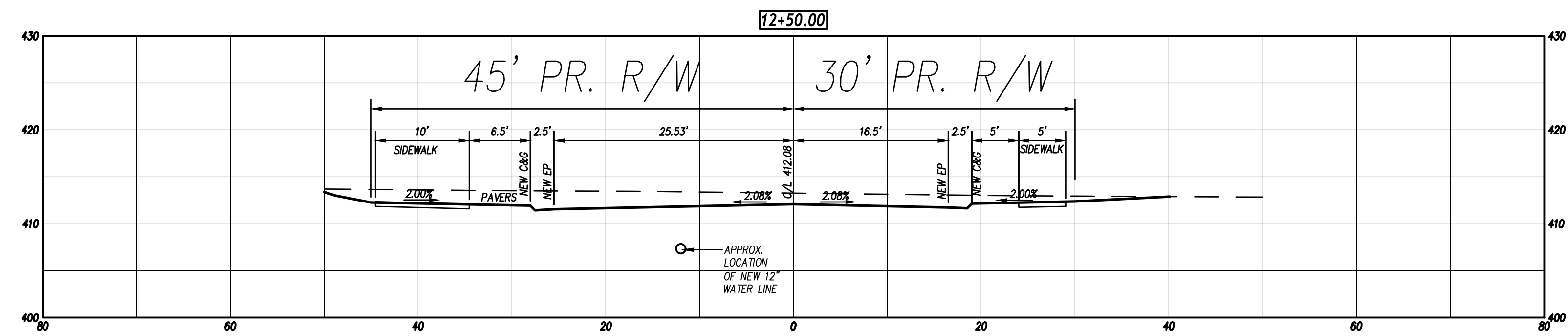
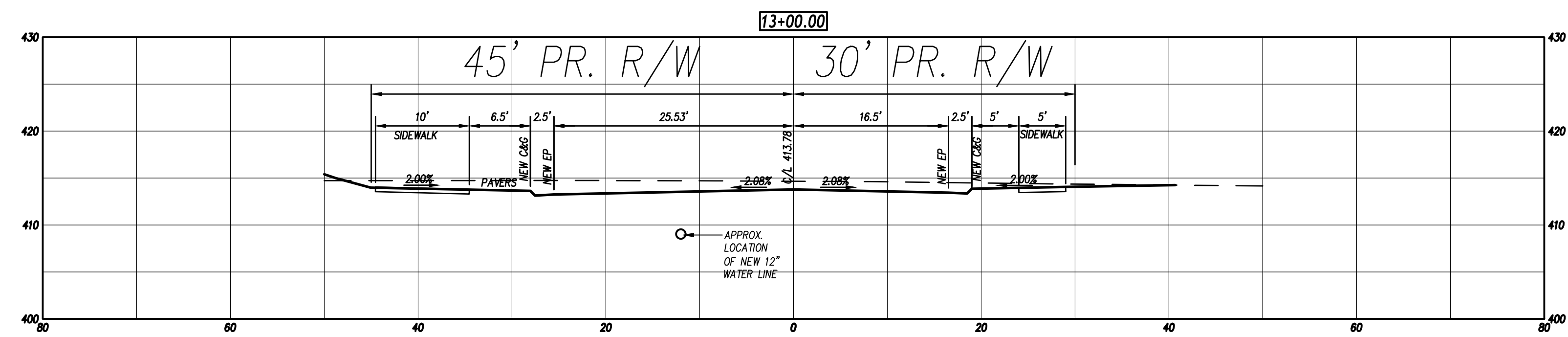
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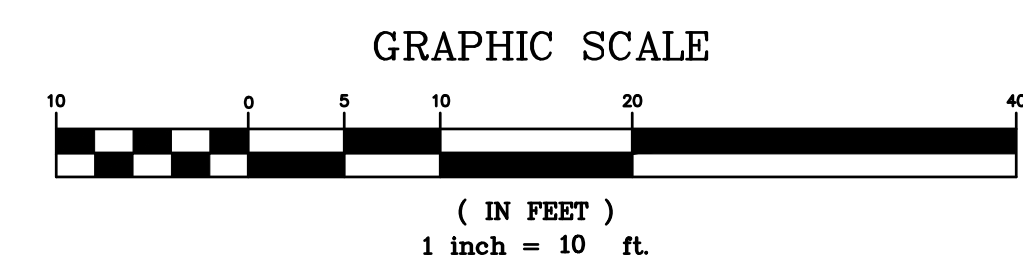
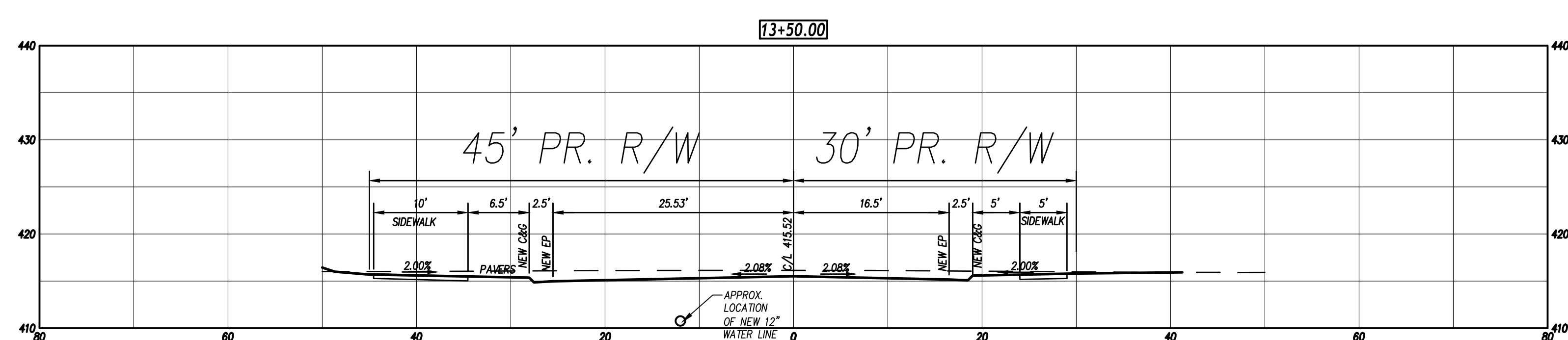
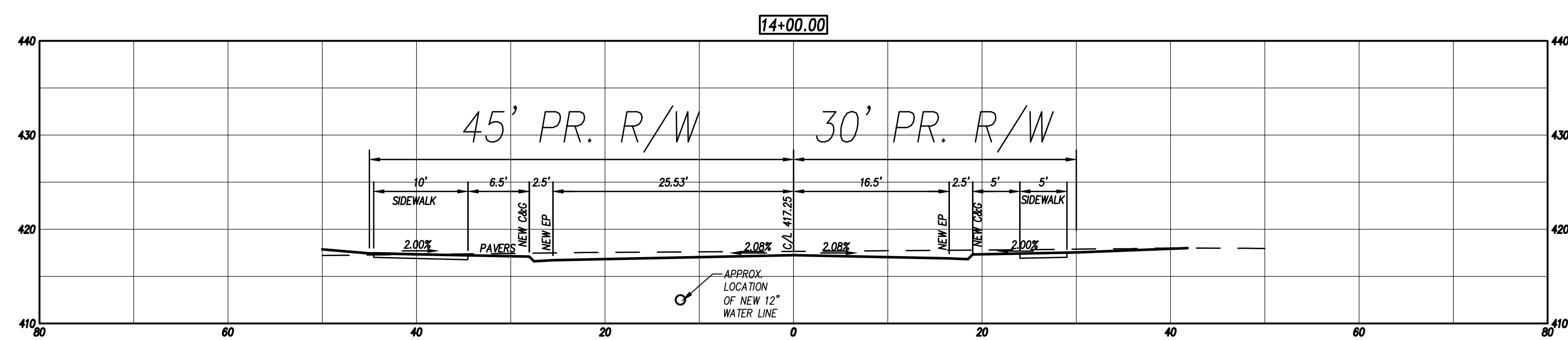
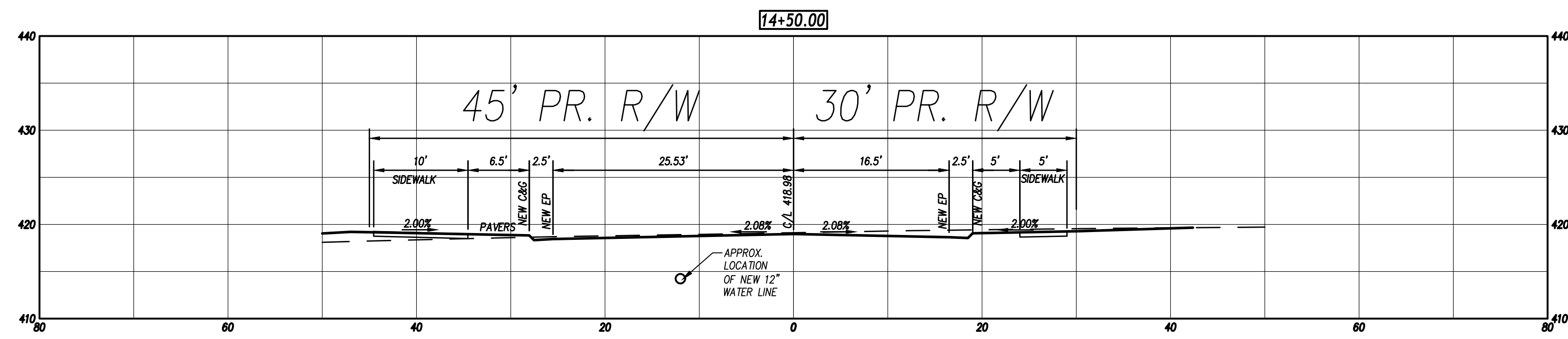
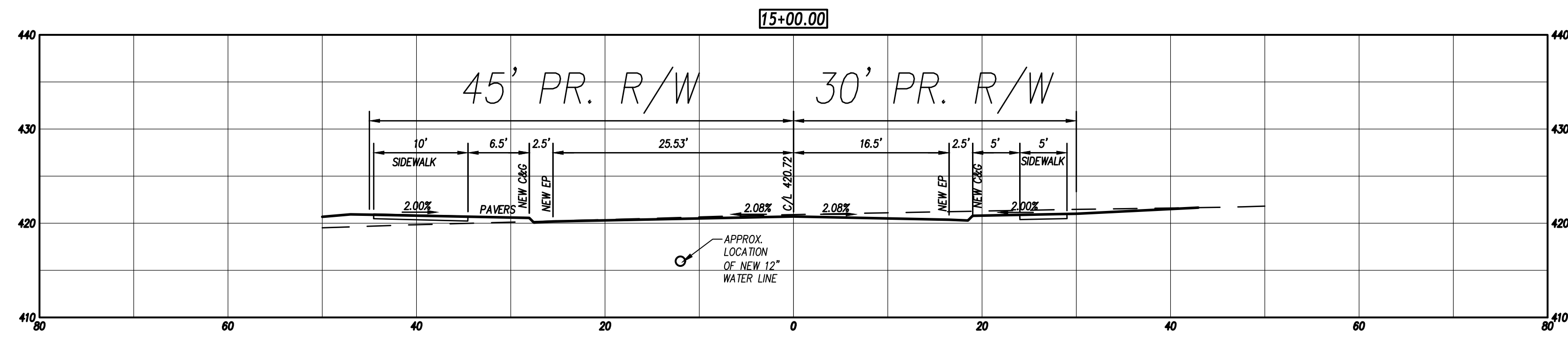
NO.	DATE	DESCRIPTION

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**CONNECTOR ROAD
CROSS-SECTIONS**

C-10.20





PRELIMINARY PLANS
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**CONNECTOR ROAD
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C-10.21



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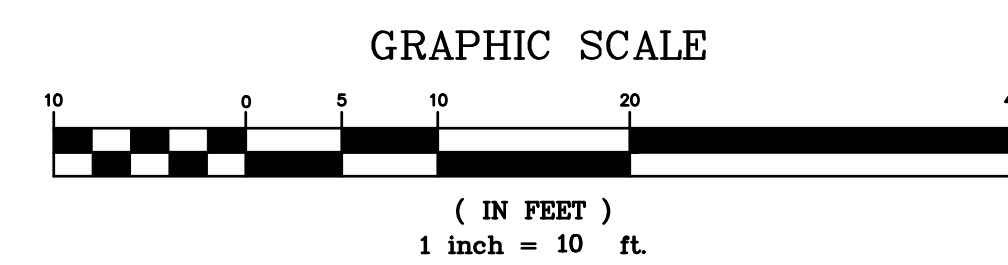
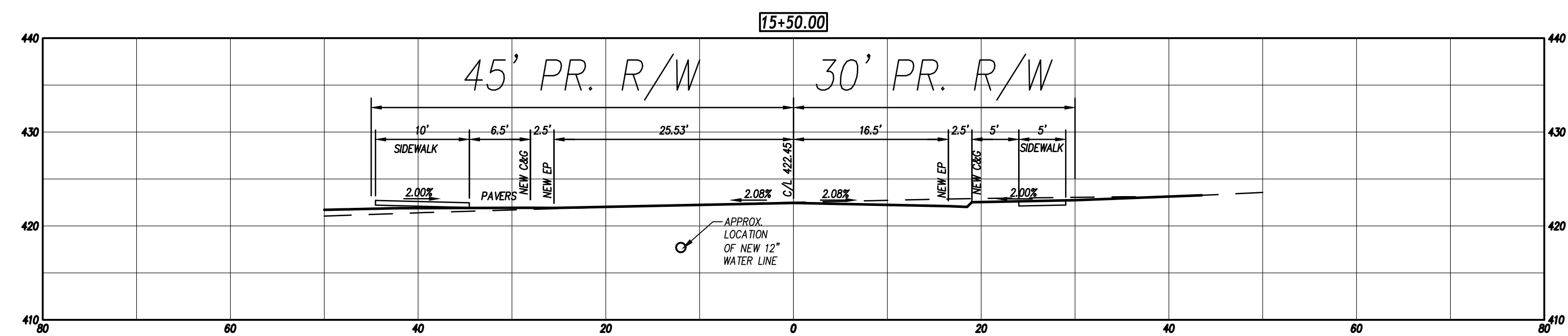
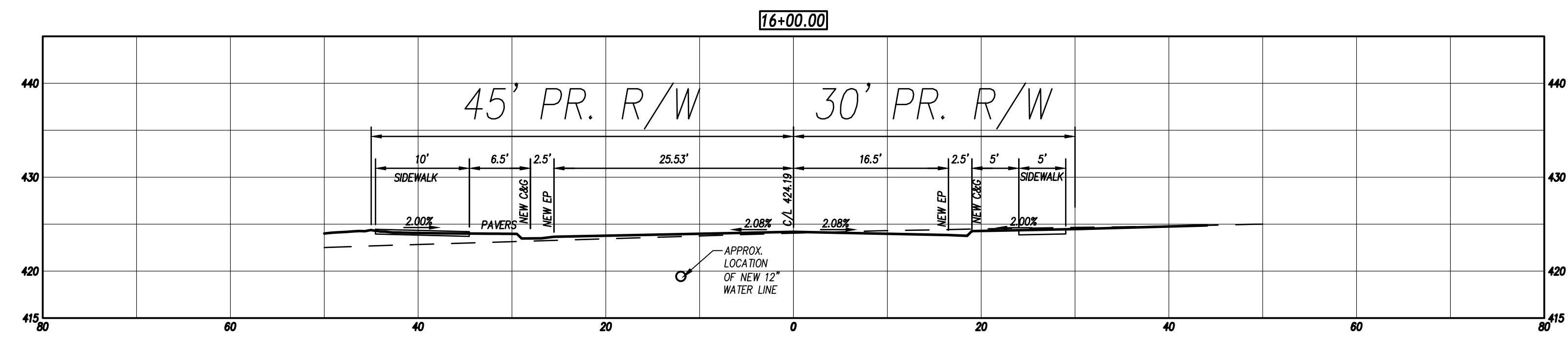
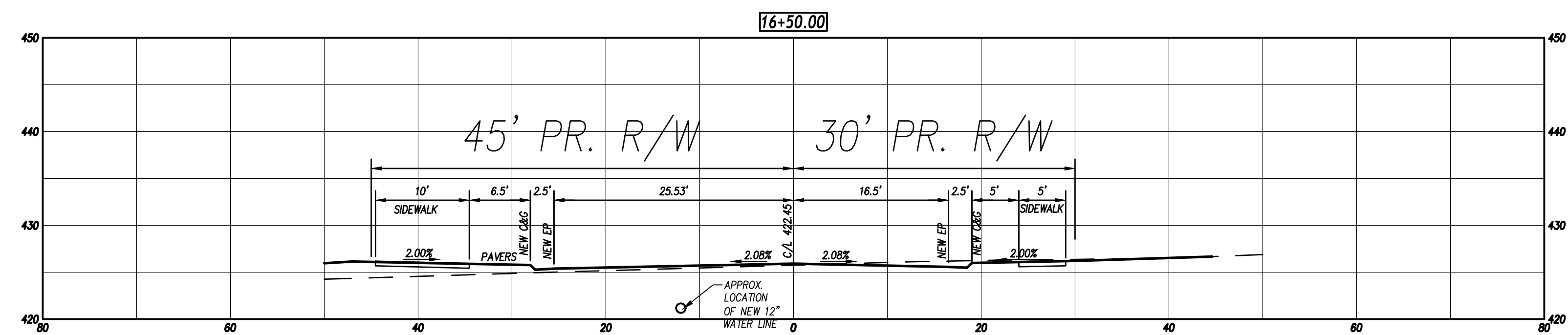
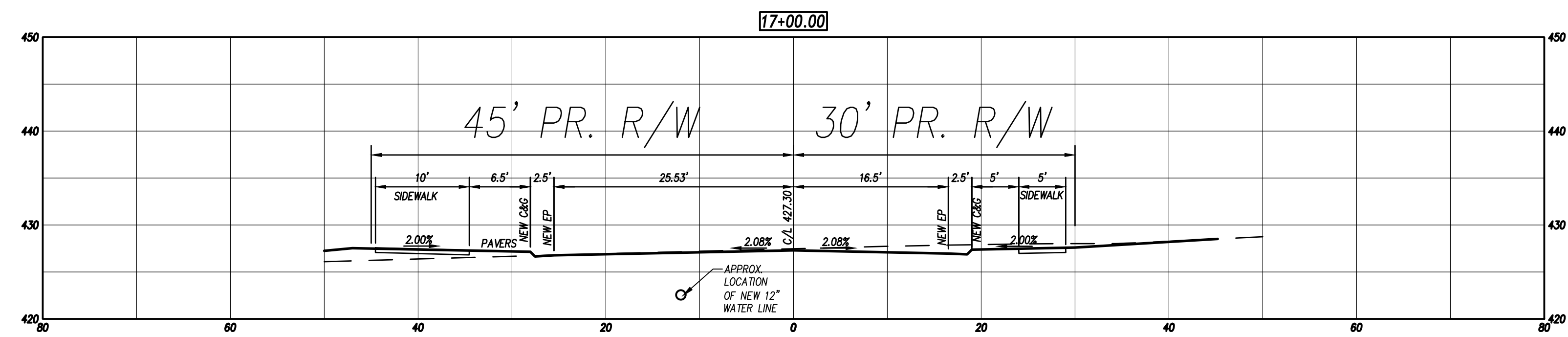
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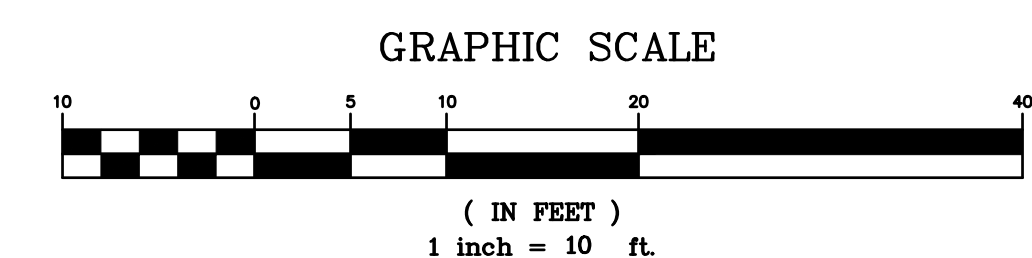
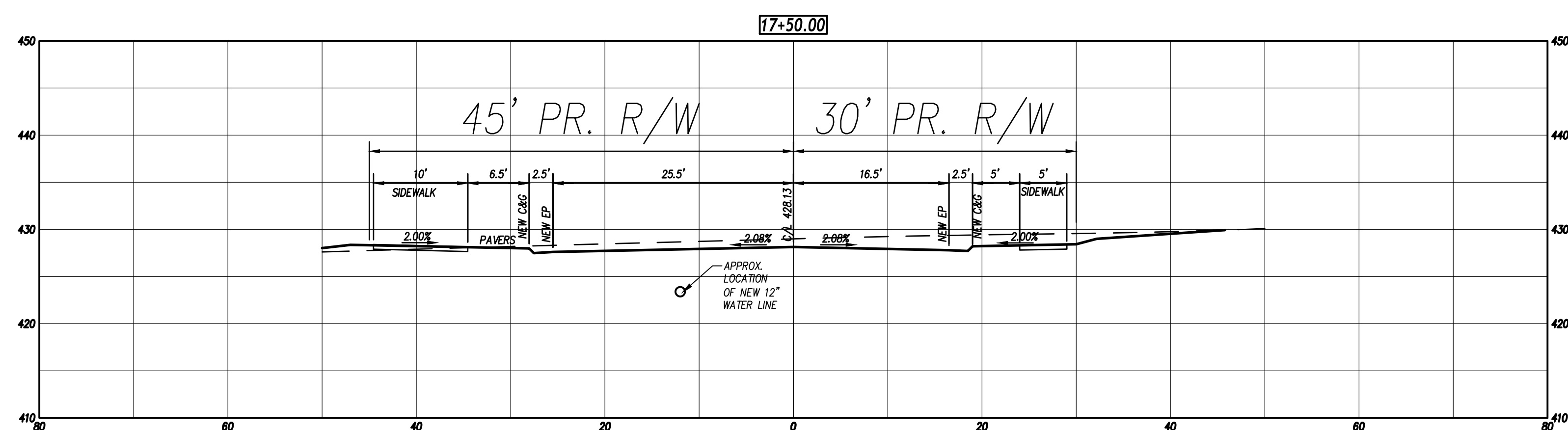
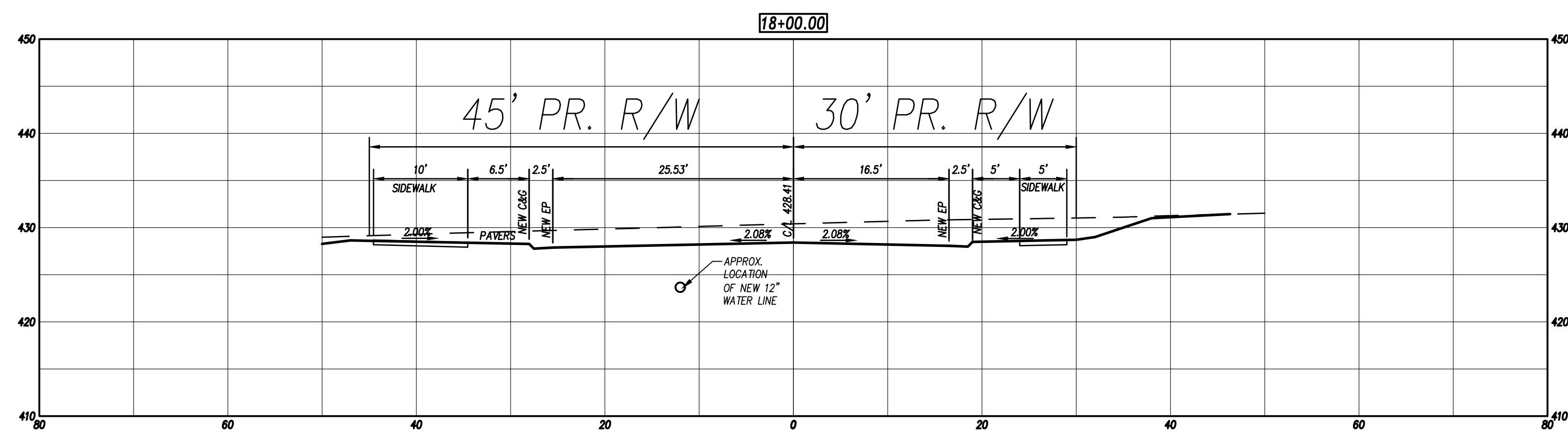
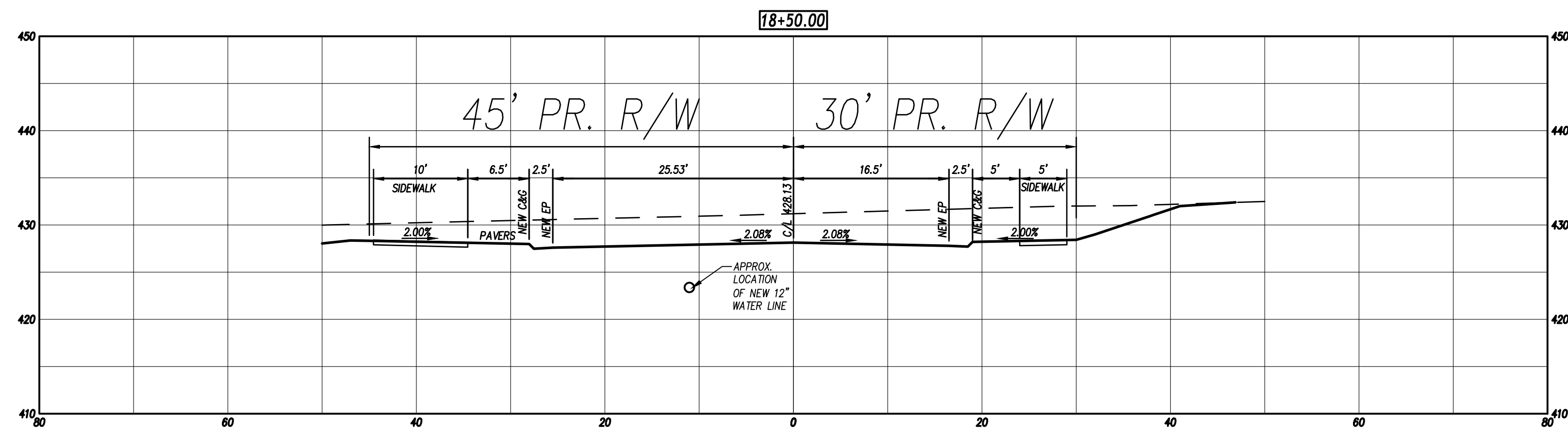
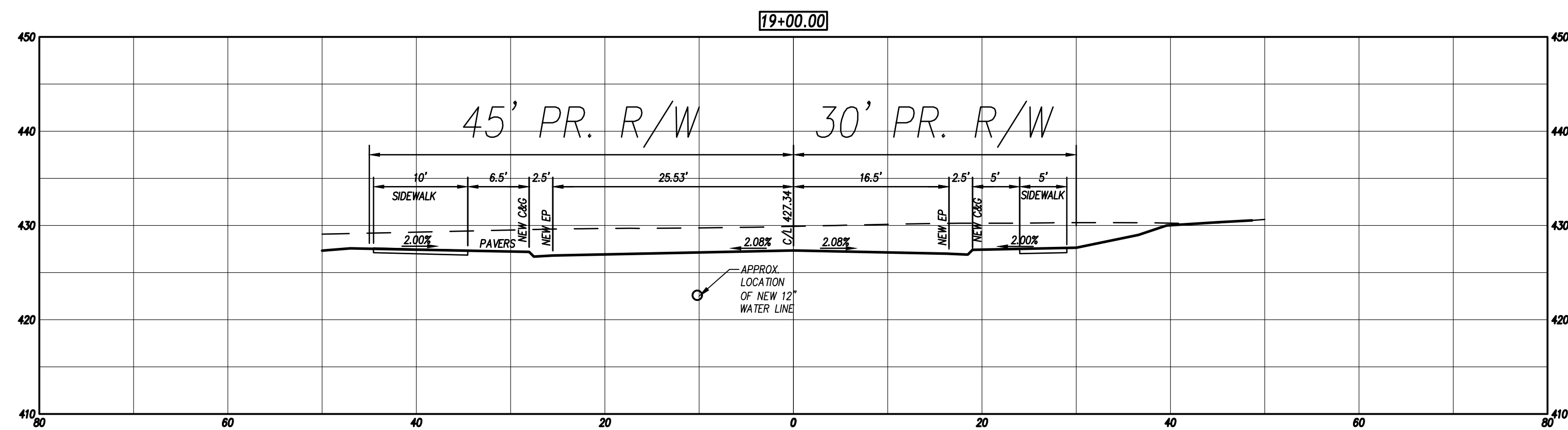
NO.	DATE	DESCRIPTION

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**CONNECTOR ROAD
CROSS-SECTIONS**

C-10.22





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**CONNECTOR ROAD
CROSS-SECTIONS**

C-10.23

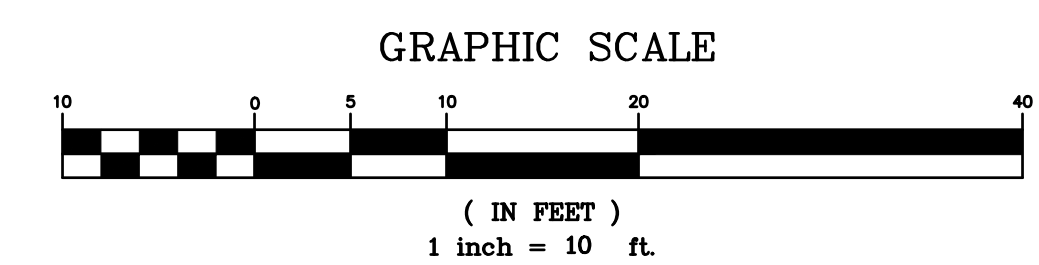
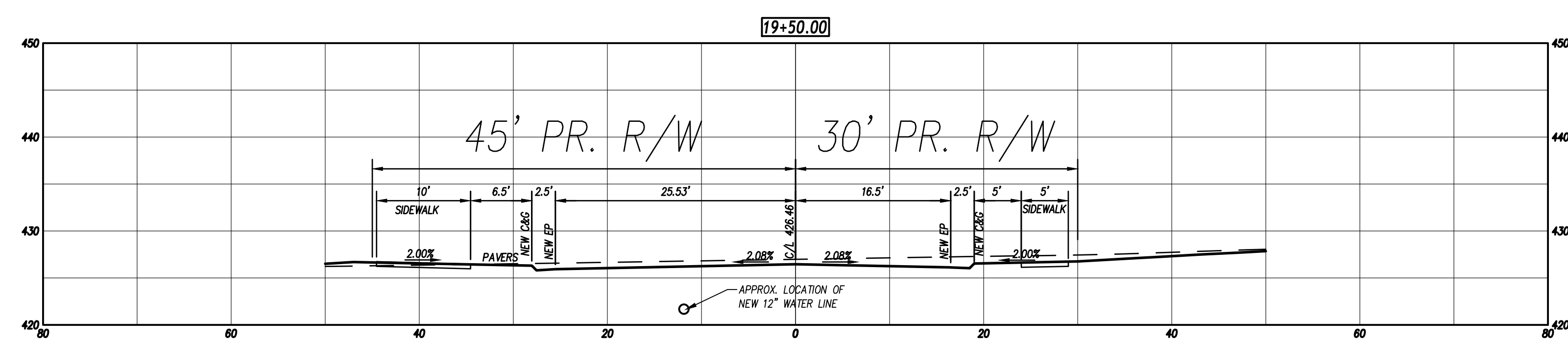
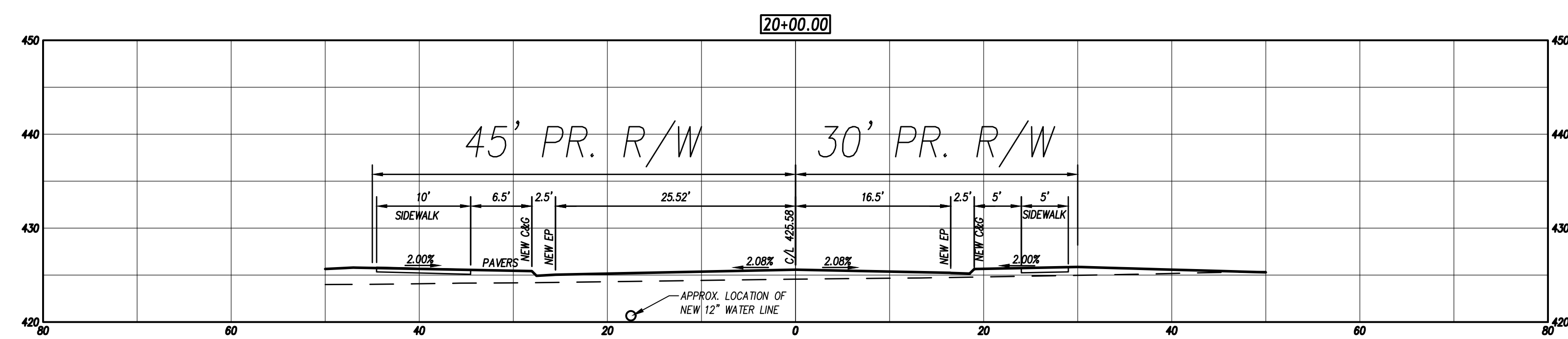
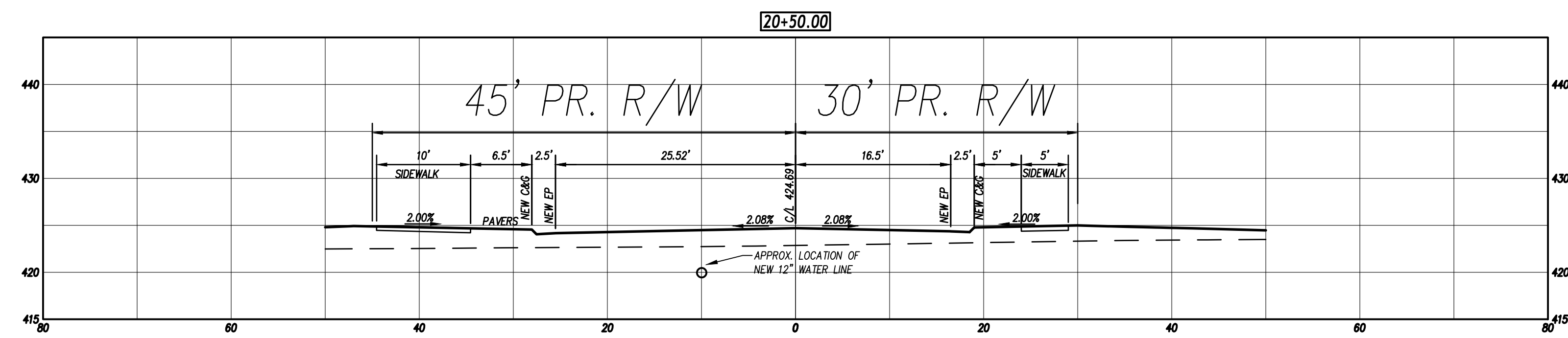
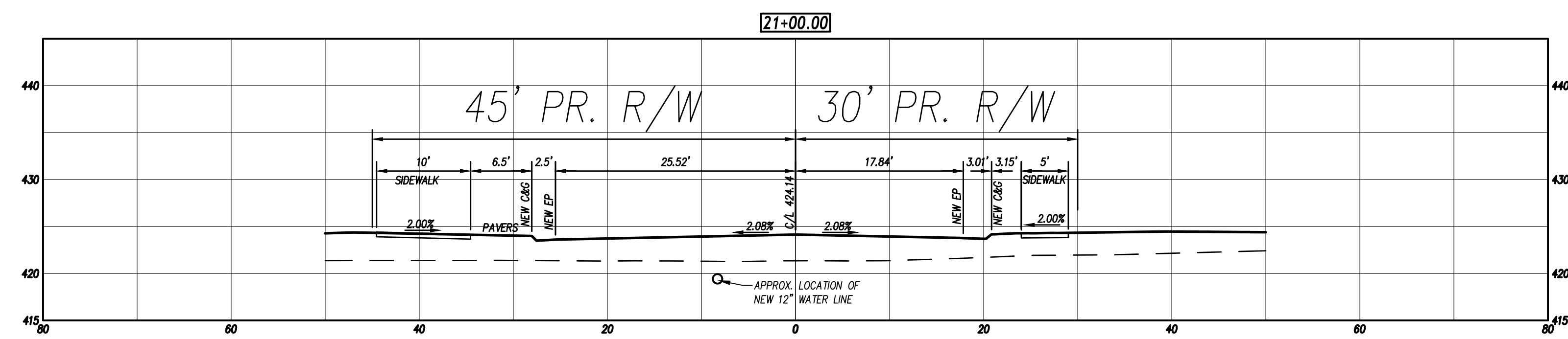


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**CONNECTOR ROAD
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C-10.24

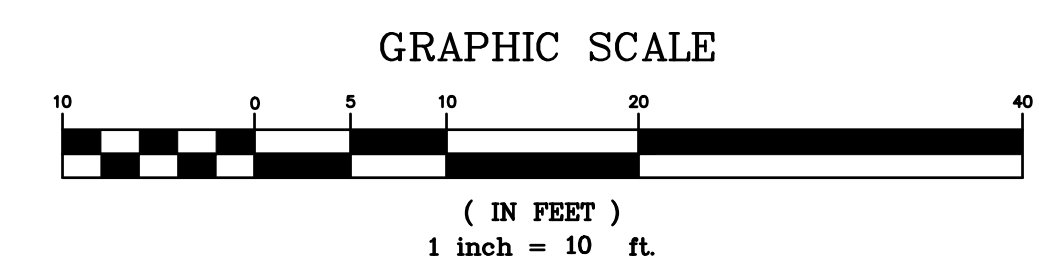
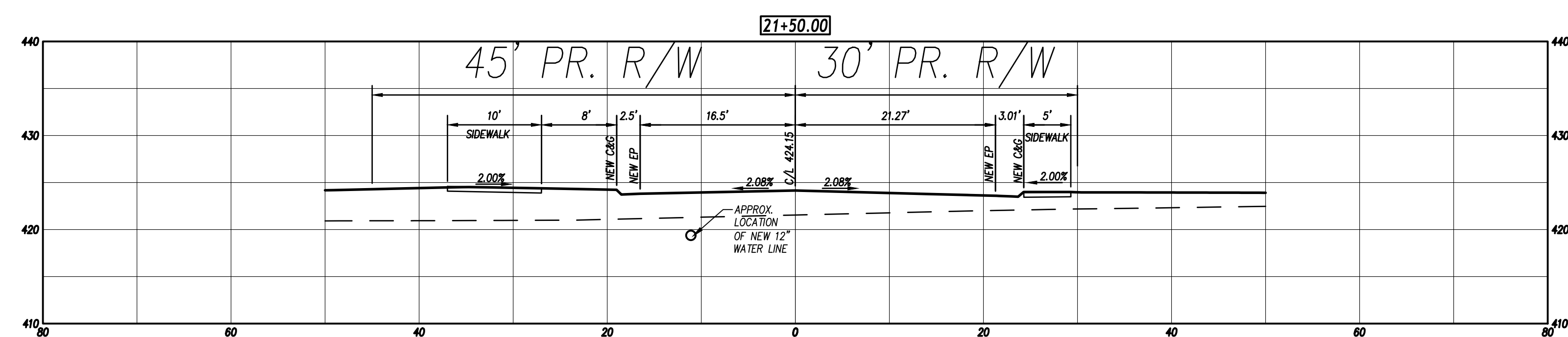
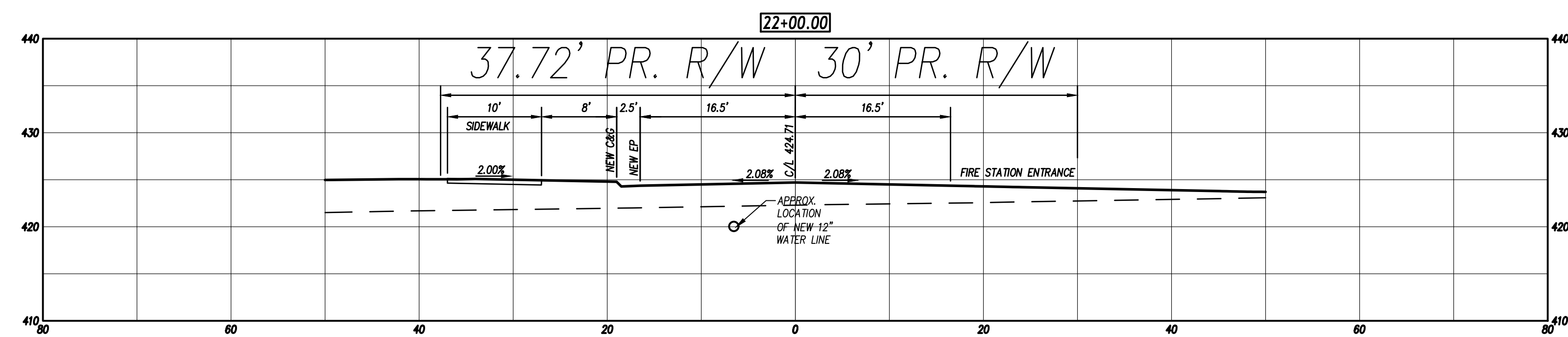
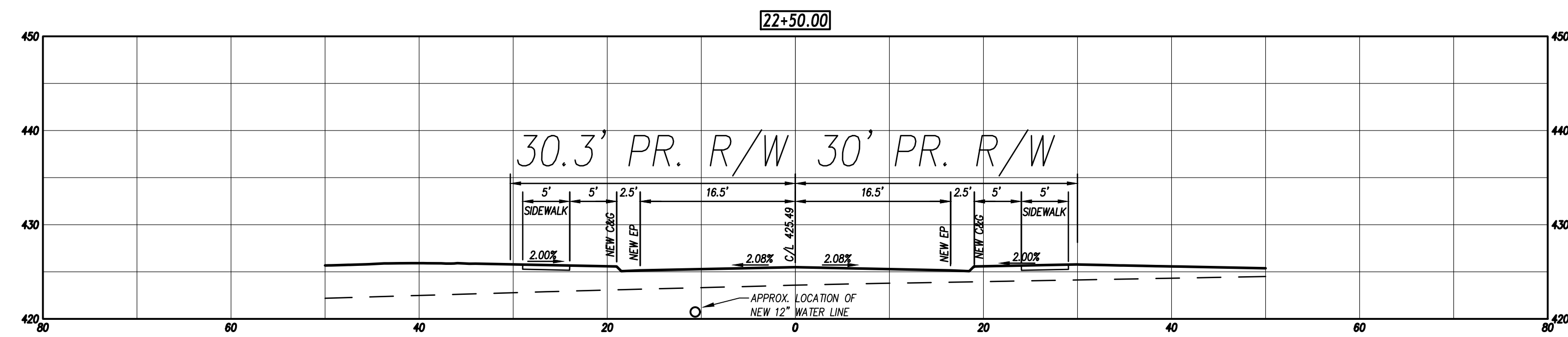
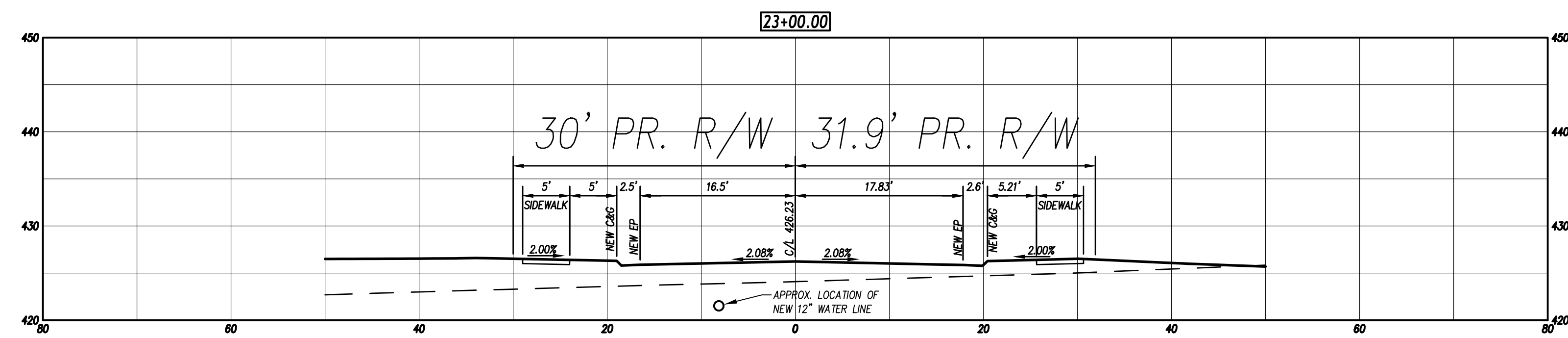


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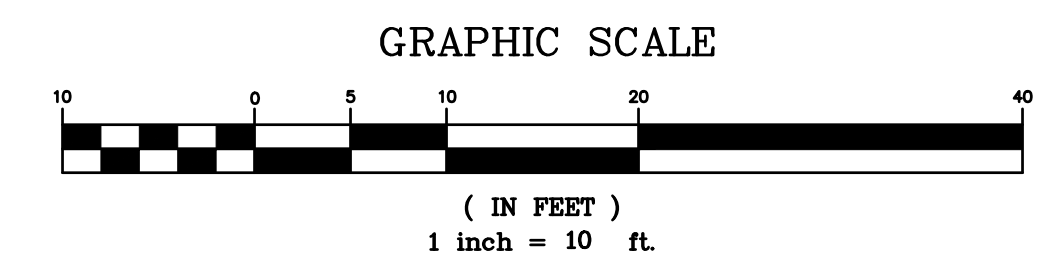
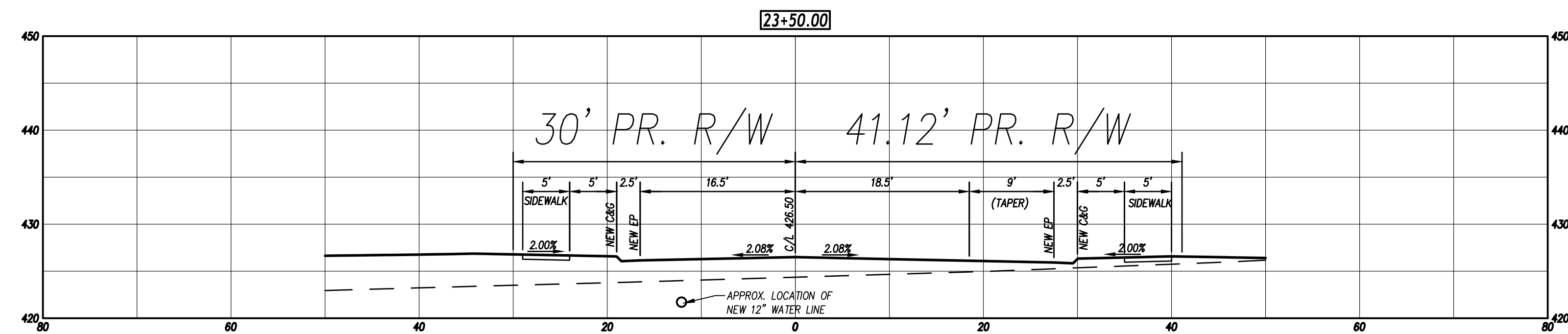
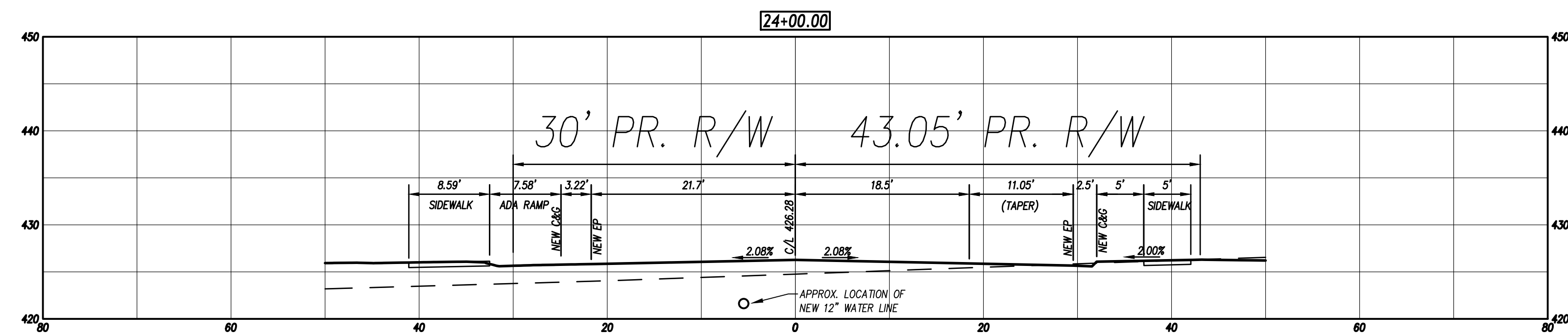
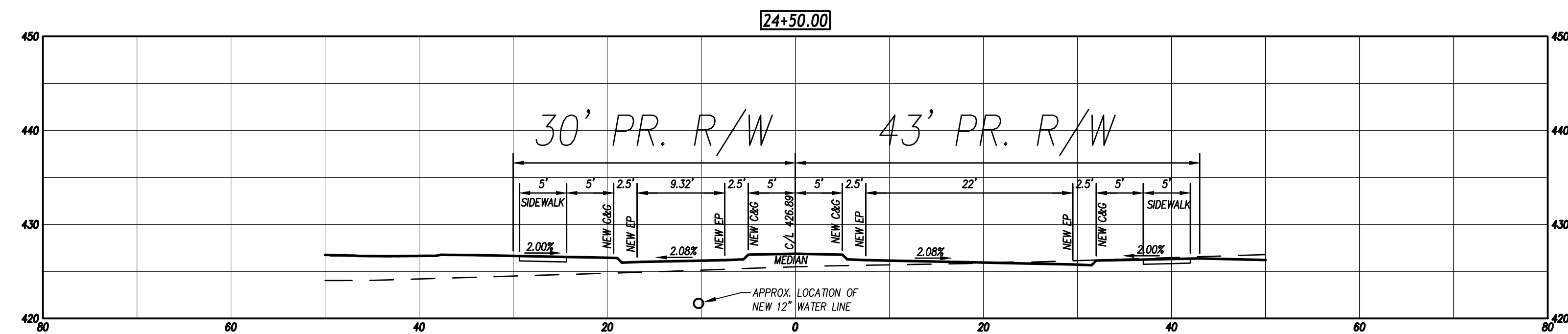
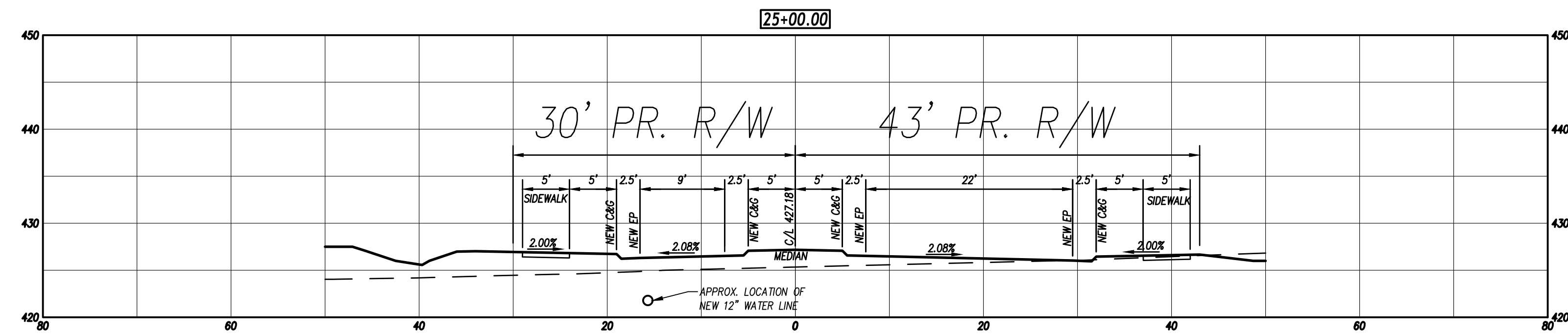


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**CONNECTOR ROAD
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**CONNECTOR ROAD
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C-10.26

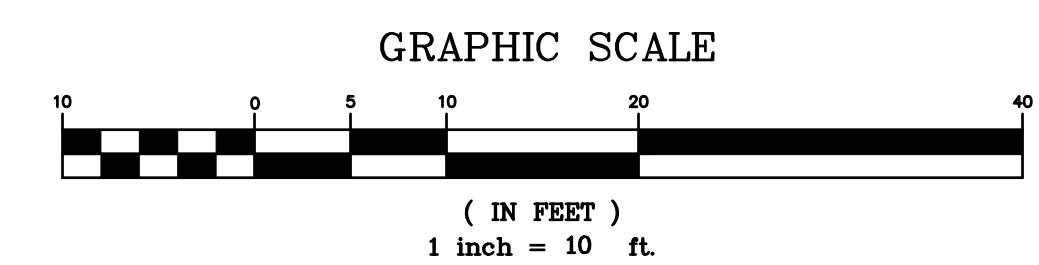
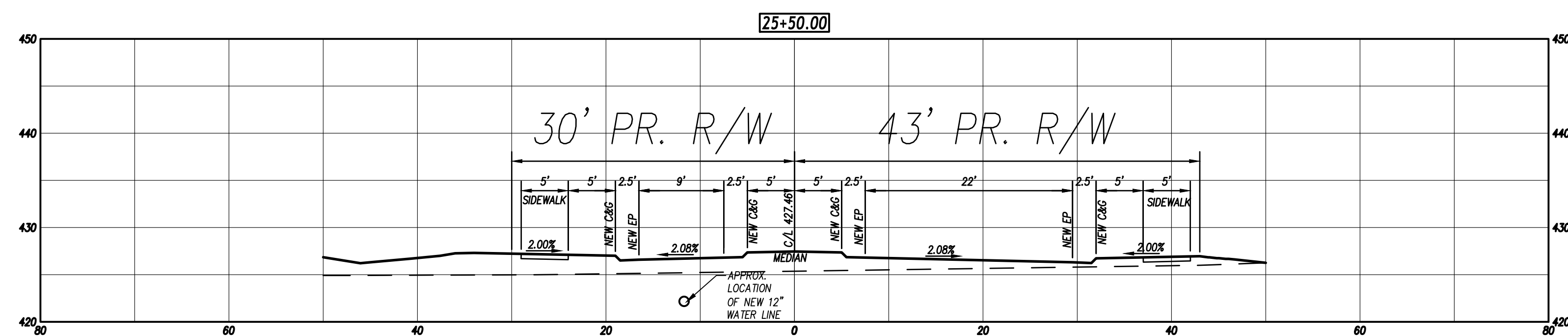
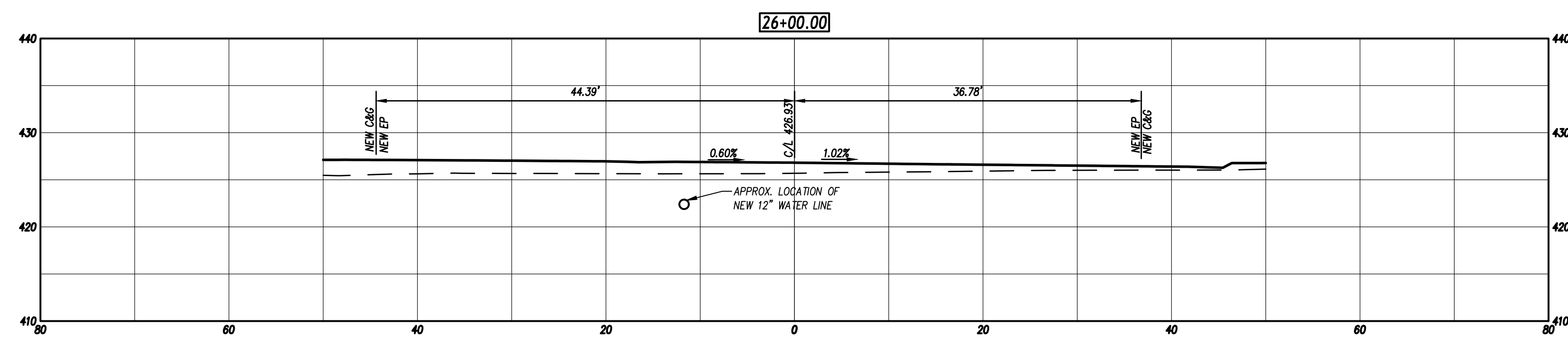
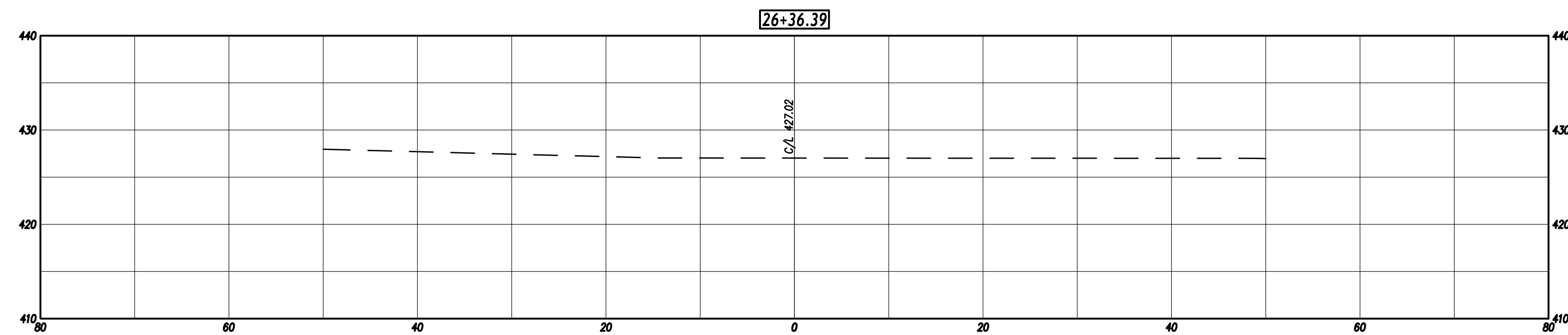


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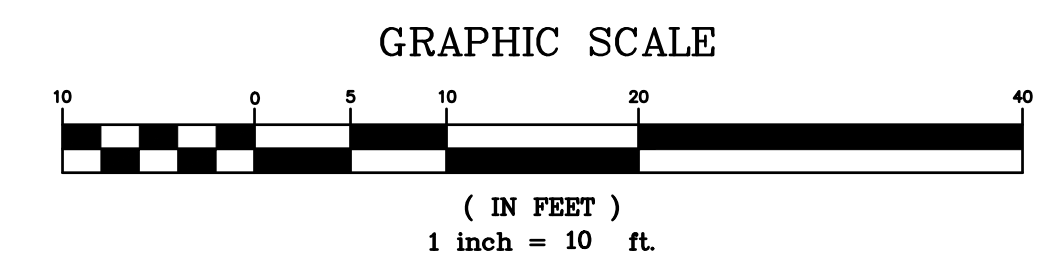
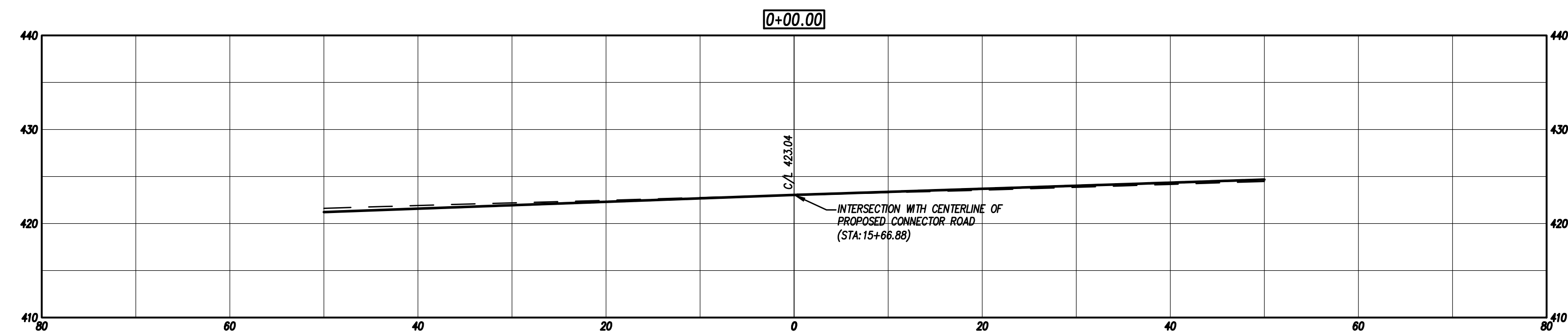
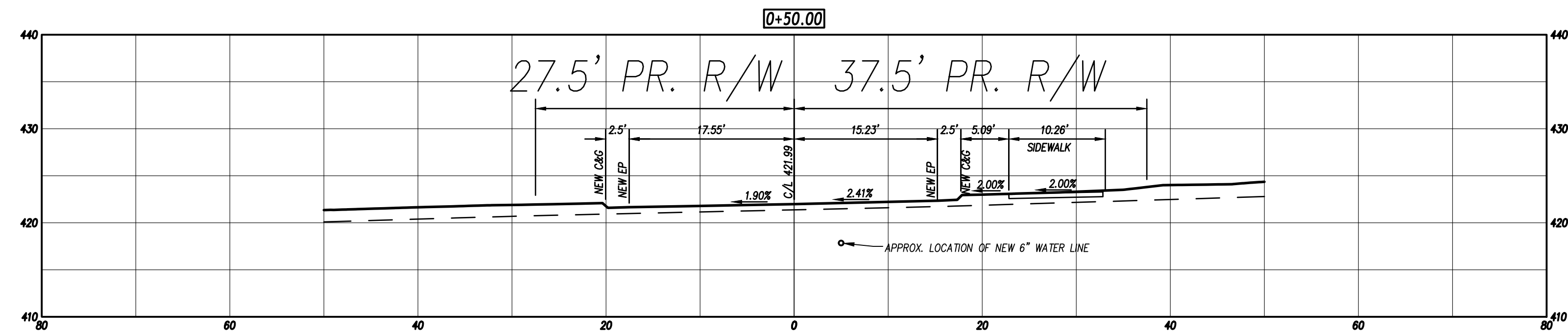
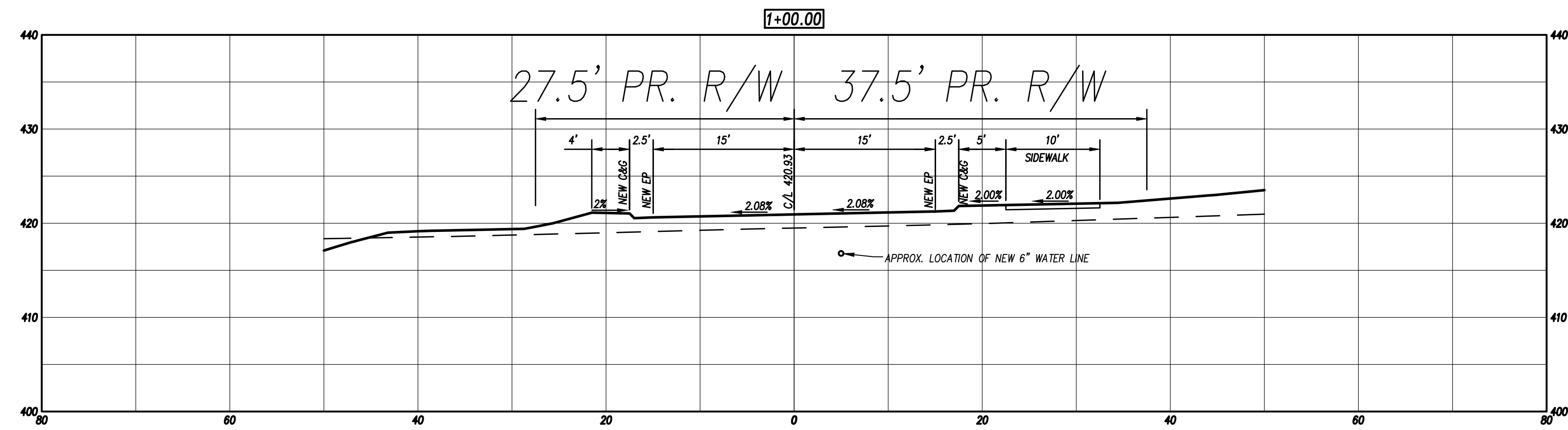
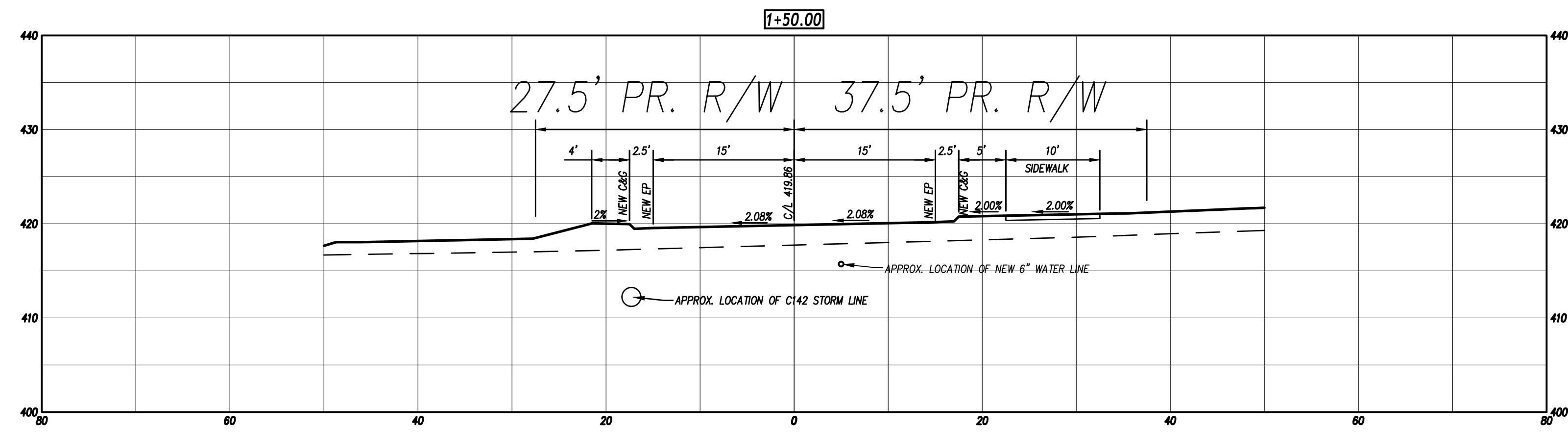


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**CONNECTOR ROAD
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C-10.27



PRELIMINARY PLANS
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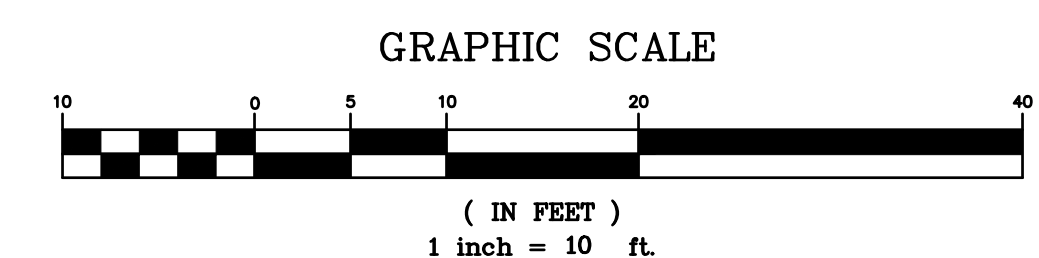
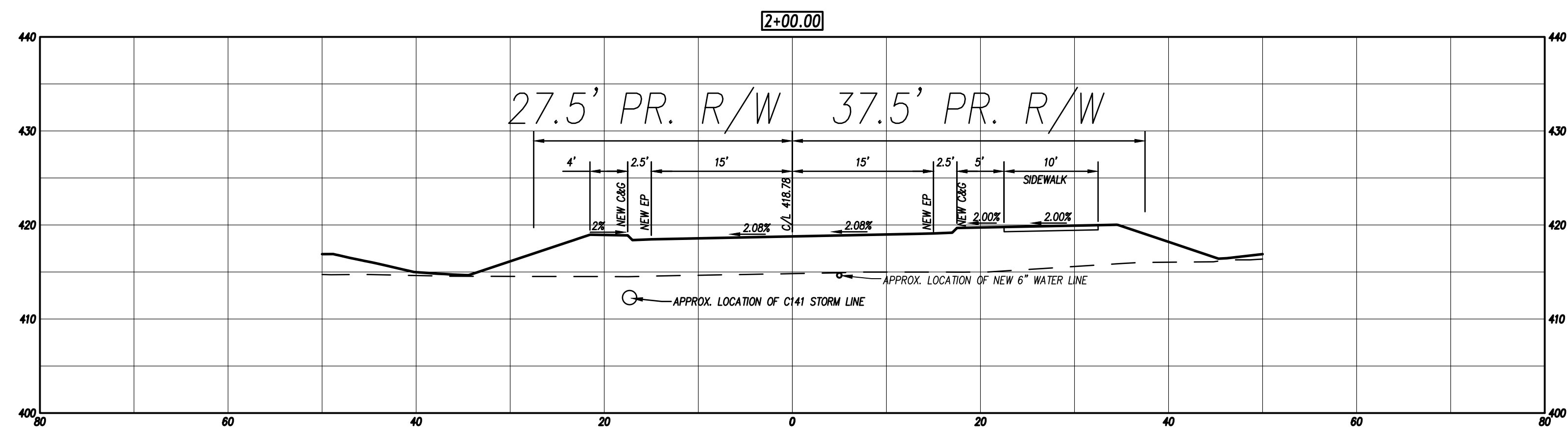
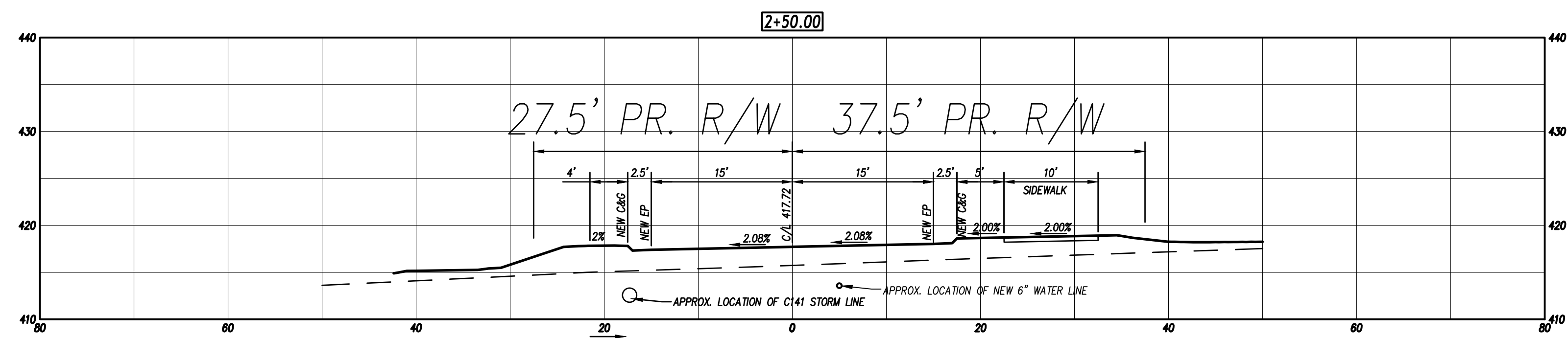
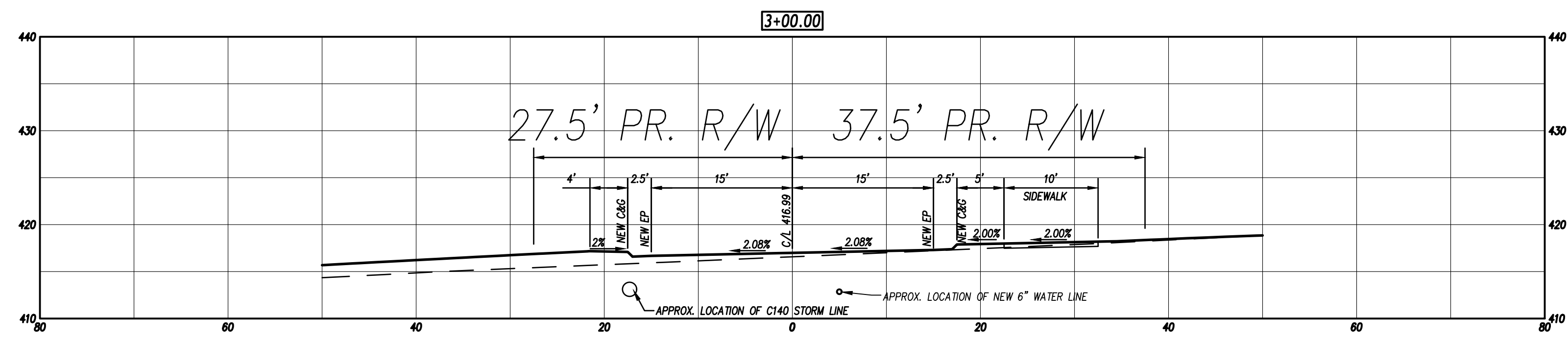
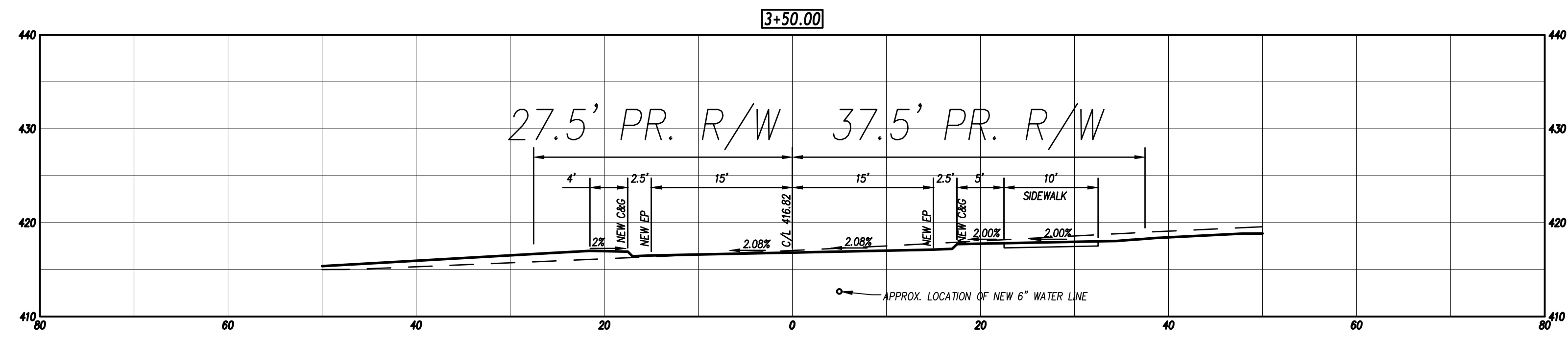
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**SCARBORO VILLAGE
CONNECTOR
ROAD
CROSS-SECTIONS**

C-10.28



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DRAWN BY: PH, LM
DATE: 22-JAN-2026
PROJECT NO: 22-205

**SCARBORO VILLAGE
CONNECTOR
ROAD
CROSS-SECTIONS**

C-10.29

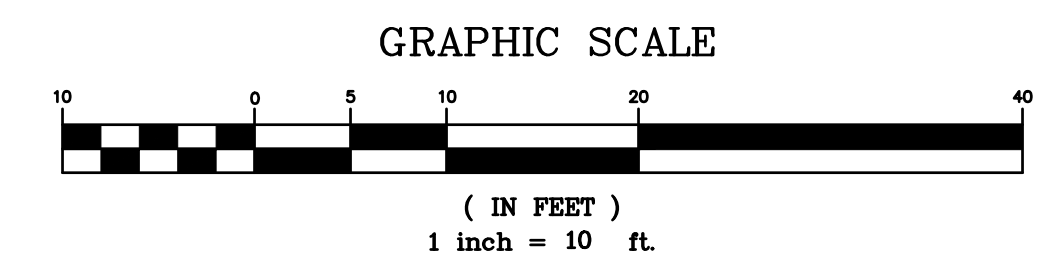
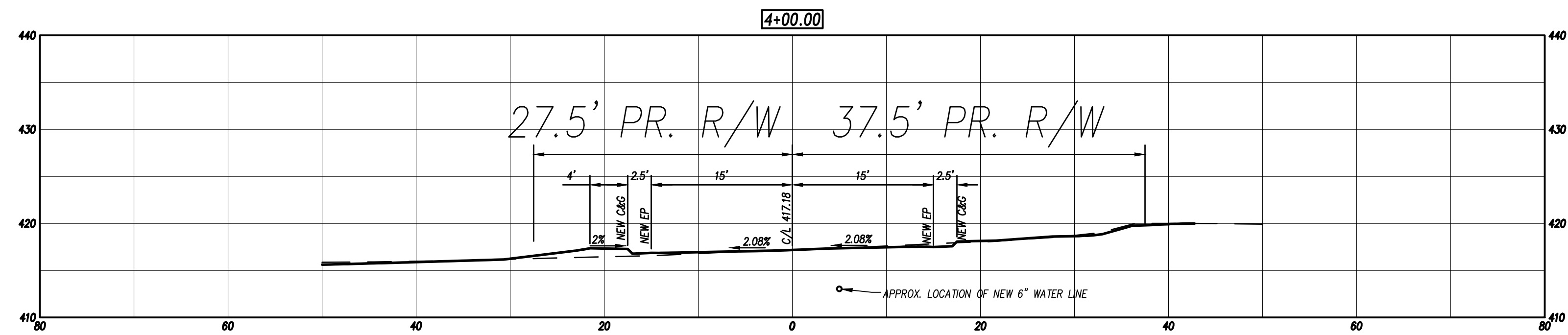


**CLH
DESIGN**

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PRELIMINARY PLANS
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**Rolesville Town Campus
Infrastructure Package**
408 EAST YOUNG STREET, ROLESVILLE, NC
PERMIT SET
Town of Rolesville
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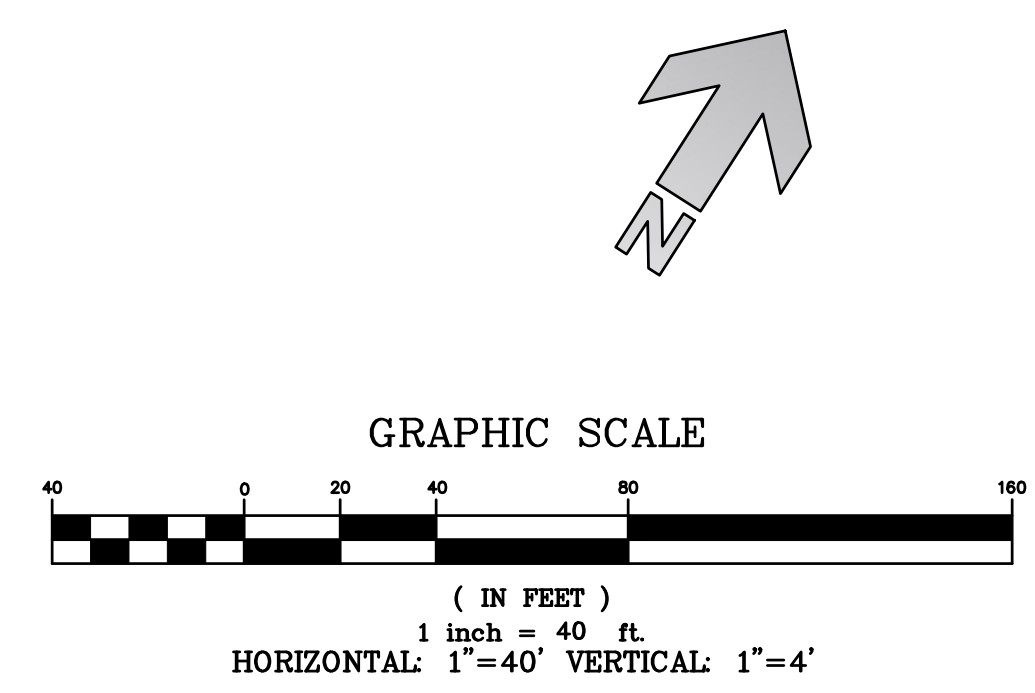
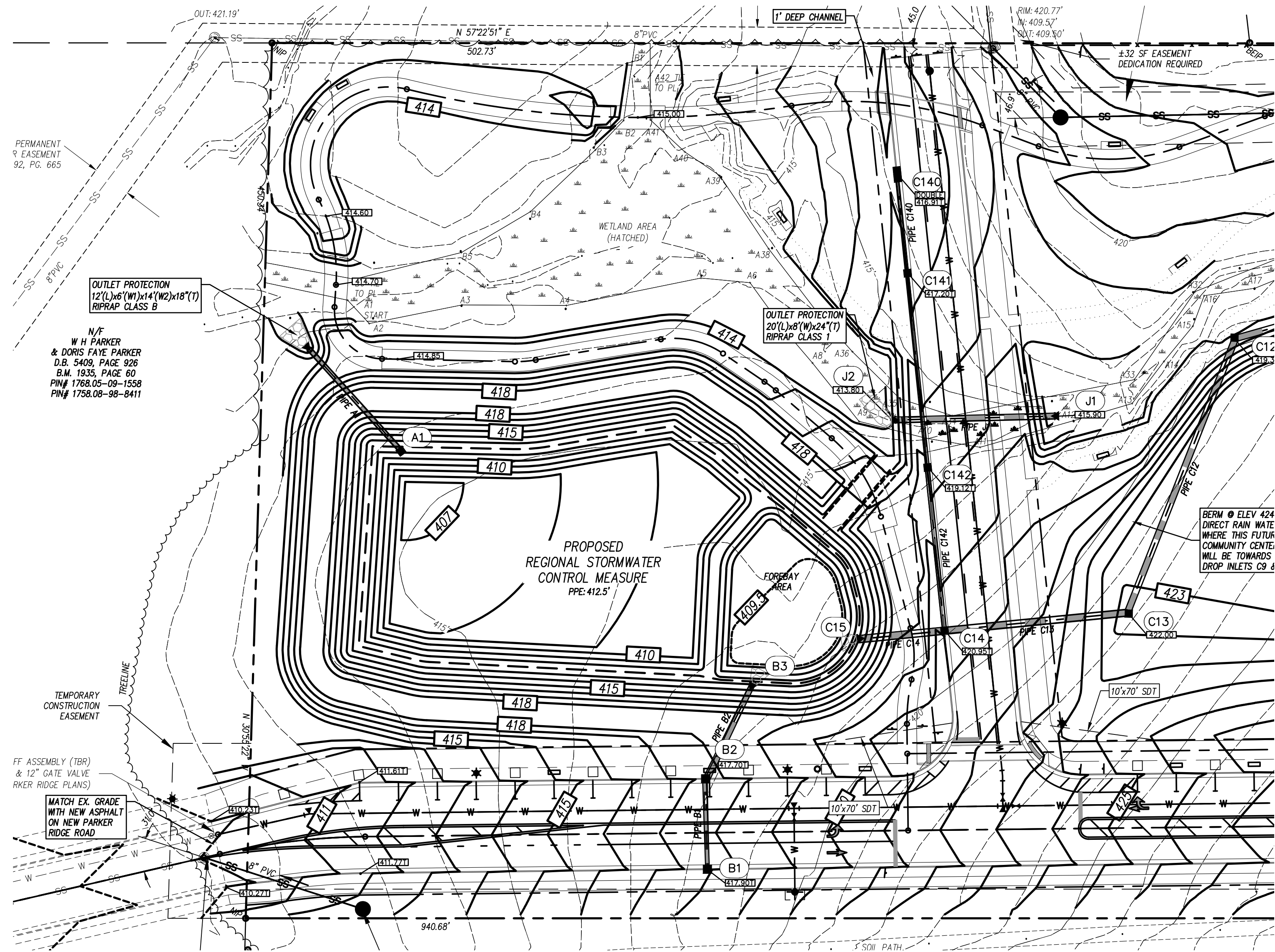


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**SCARBORO VILLAGE
CONNECTOR
ROAD
CROSS-SECTIONS**

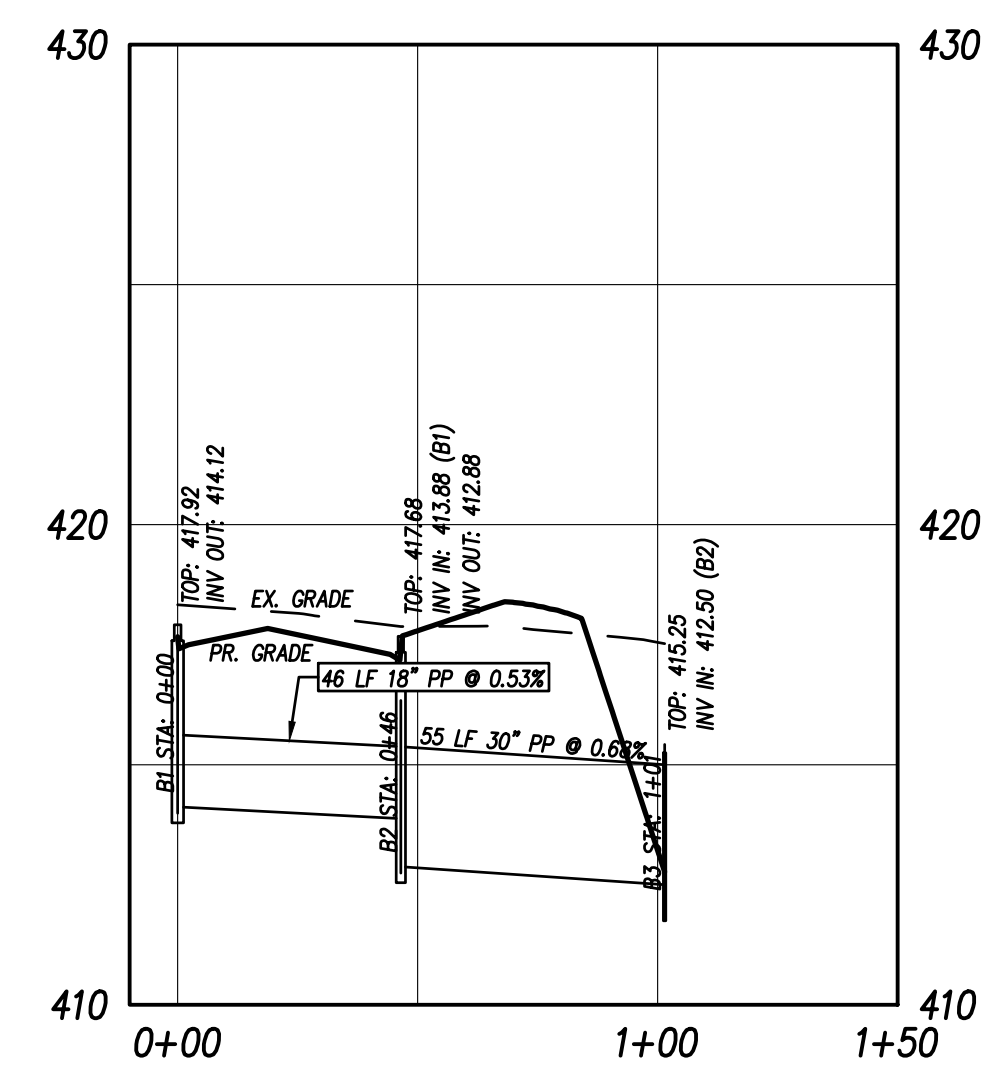
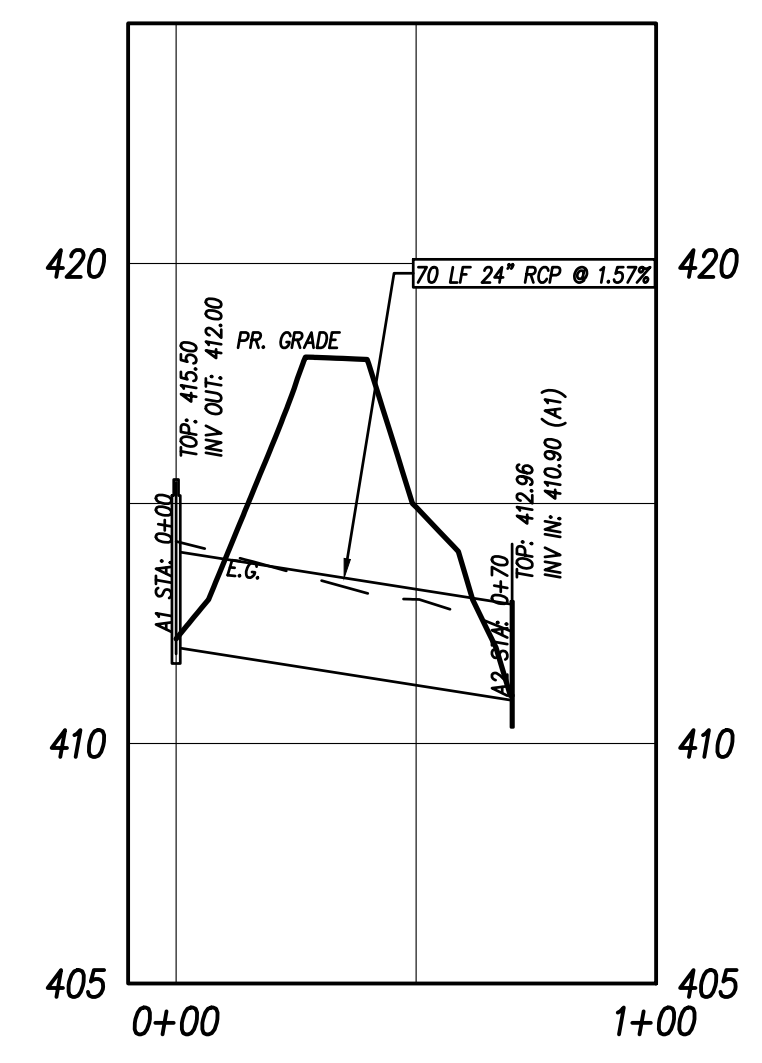
C-10.30



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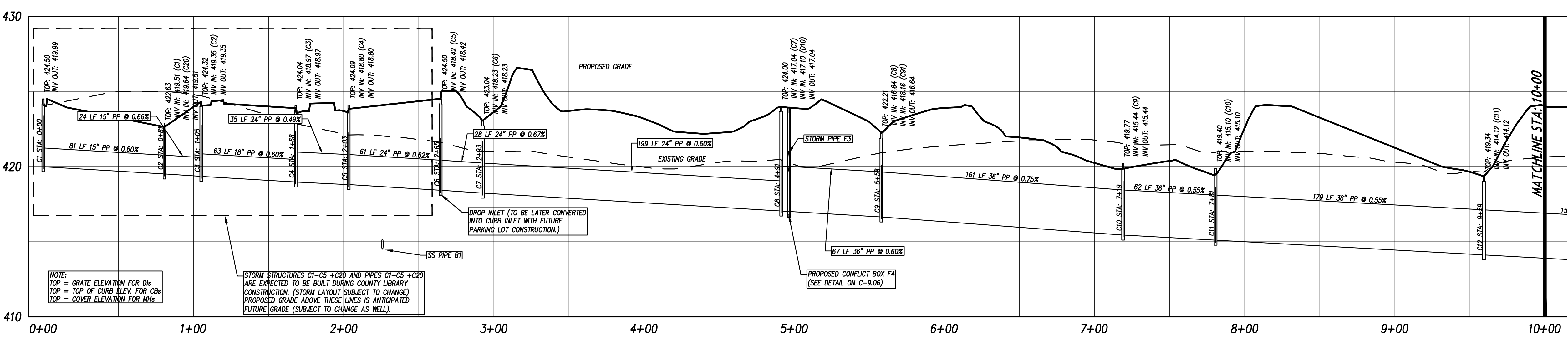
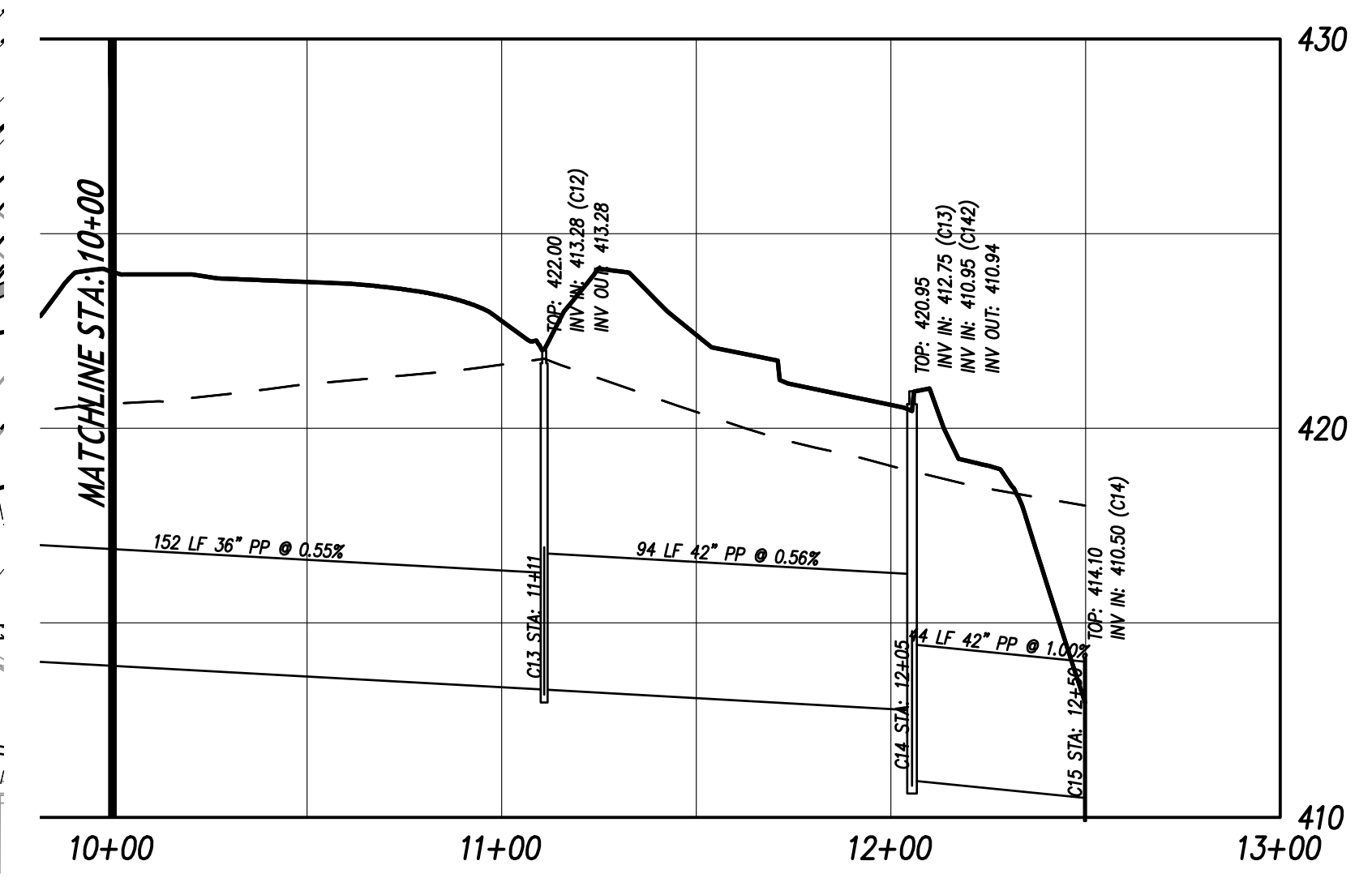
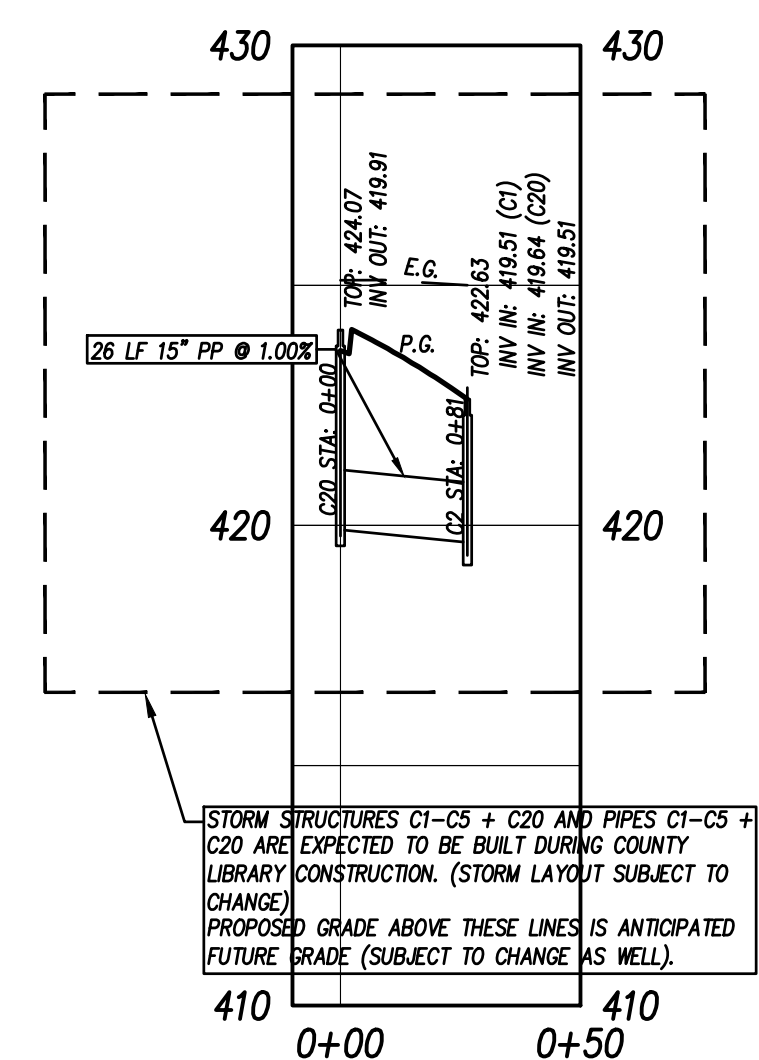
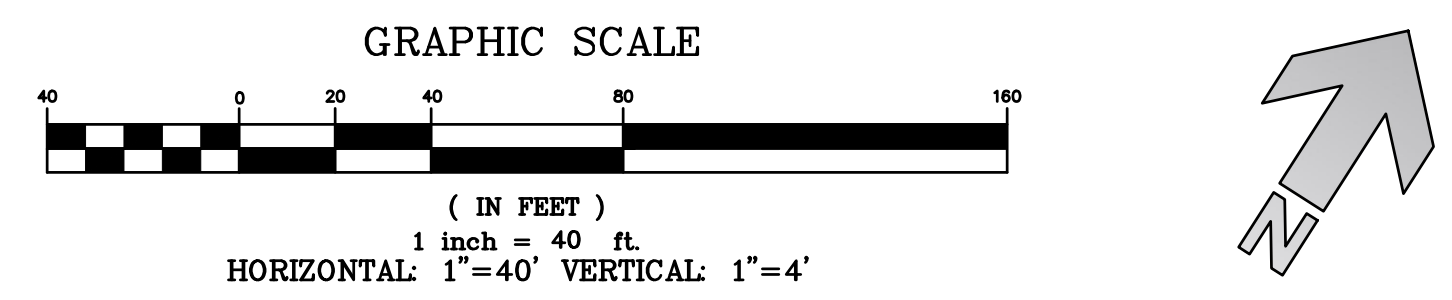
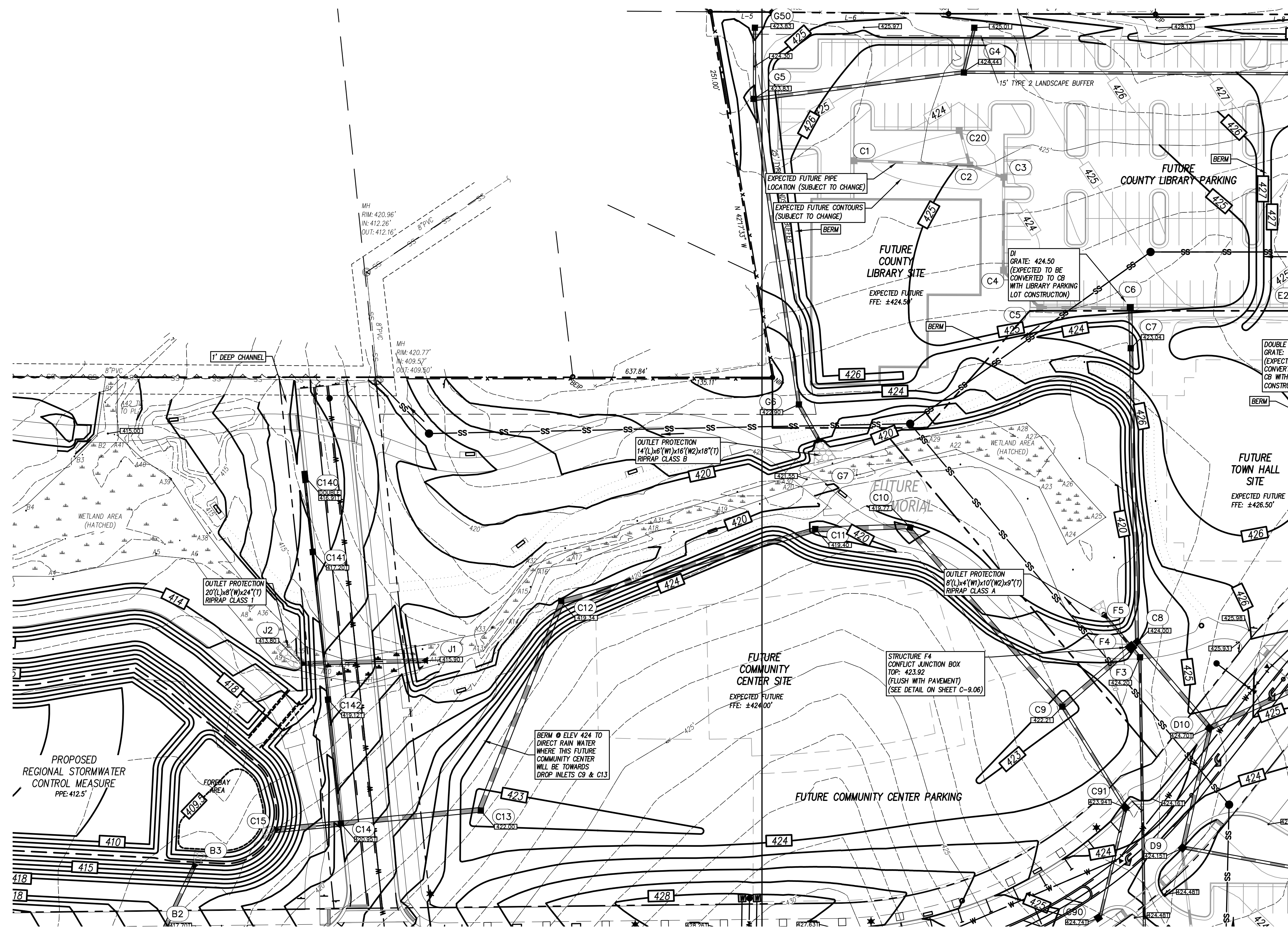


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STORM DRAIN
PLAN & PROFILE
LINES A + B

C-11.01



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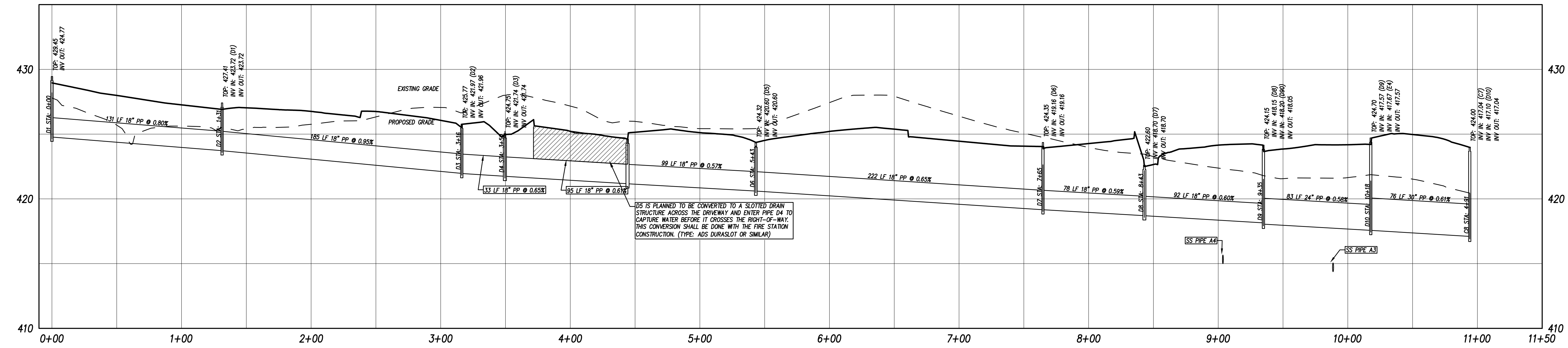
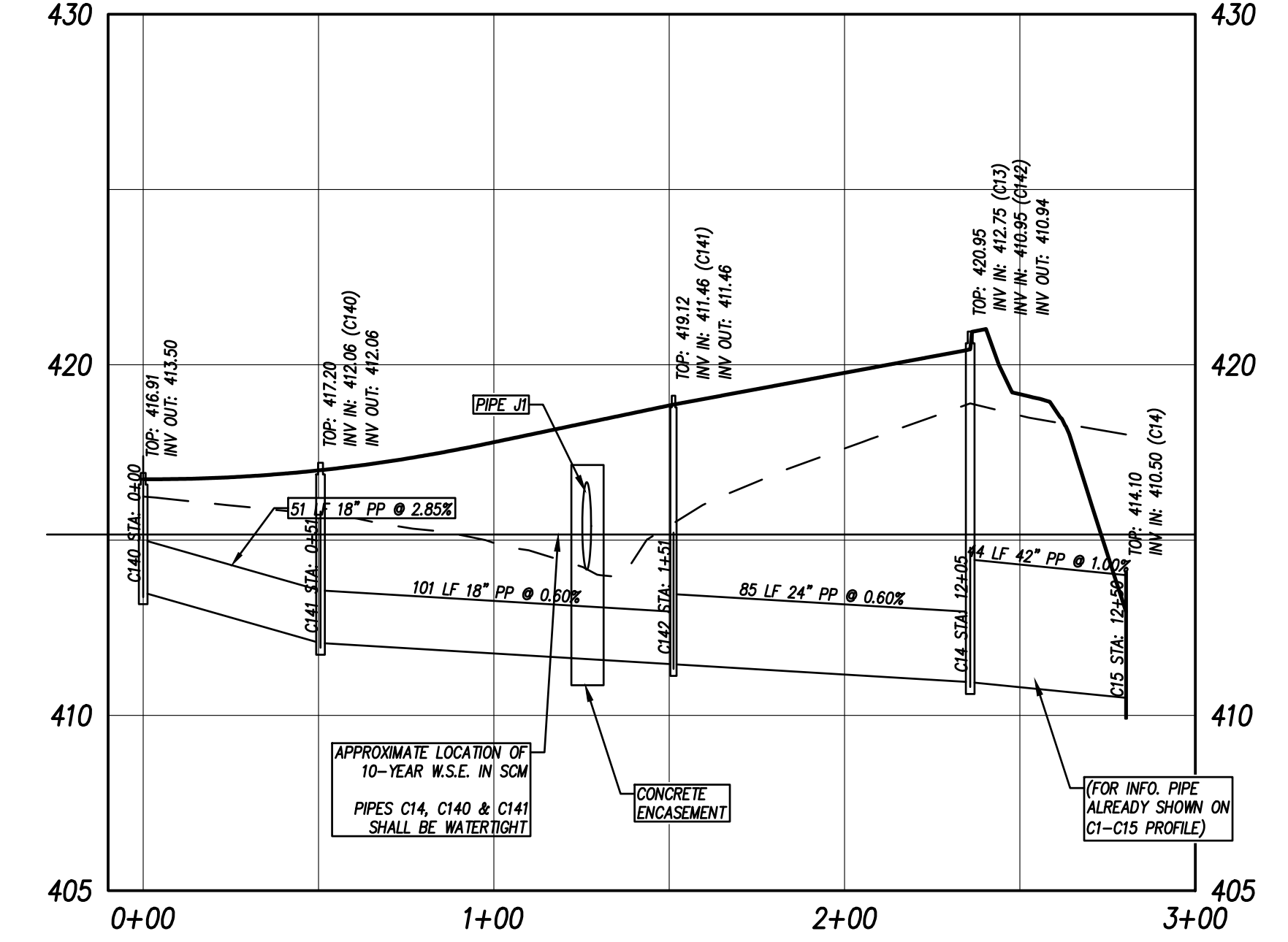
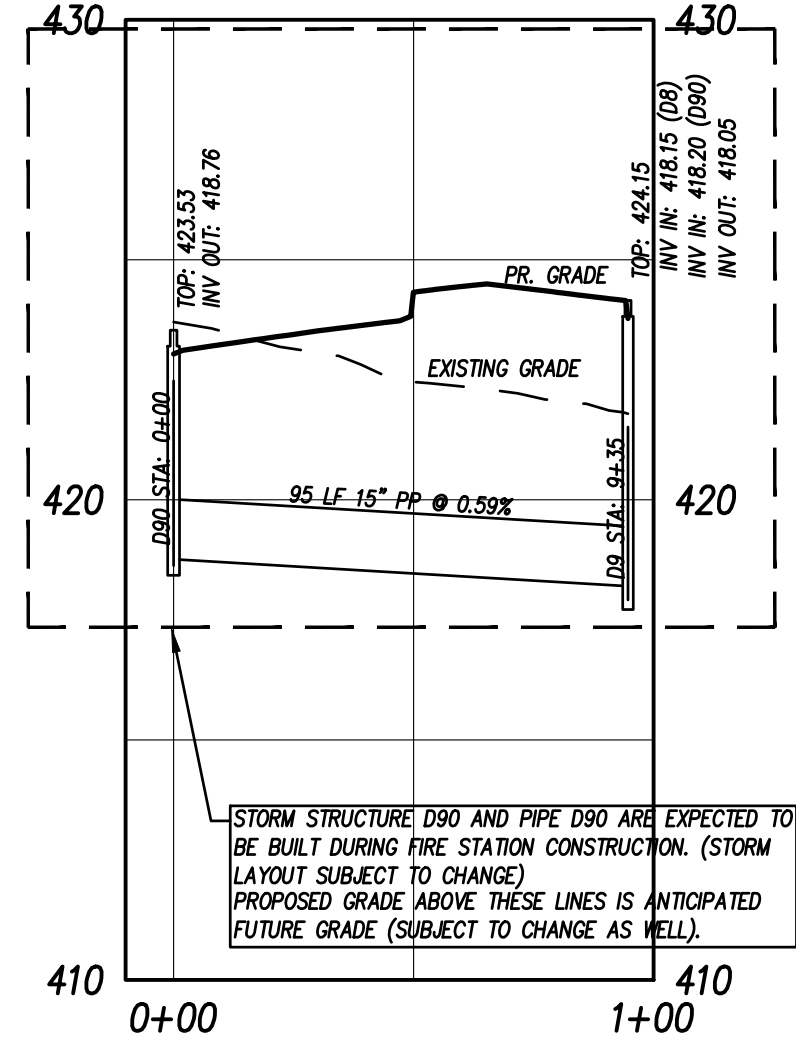
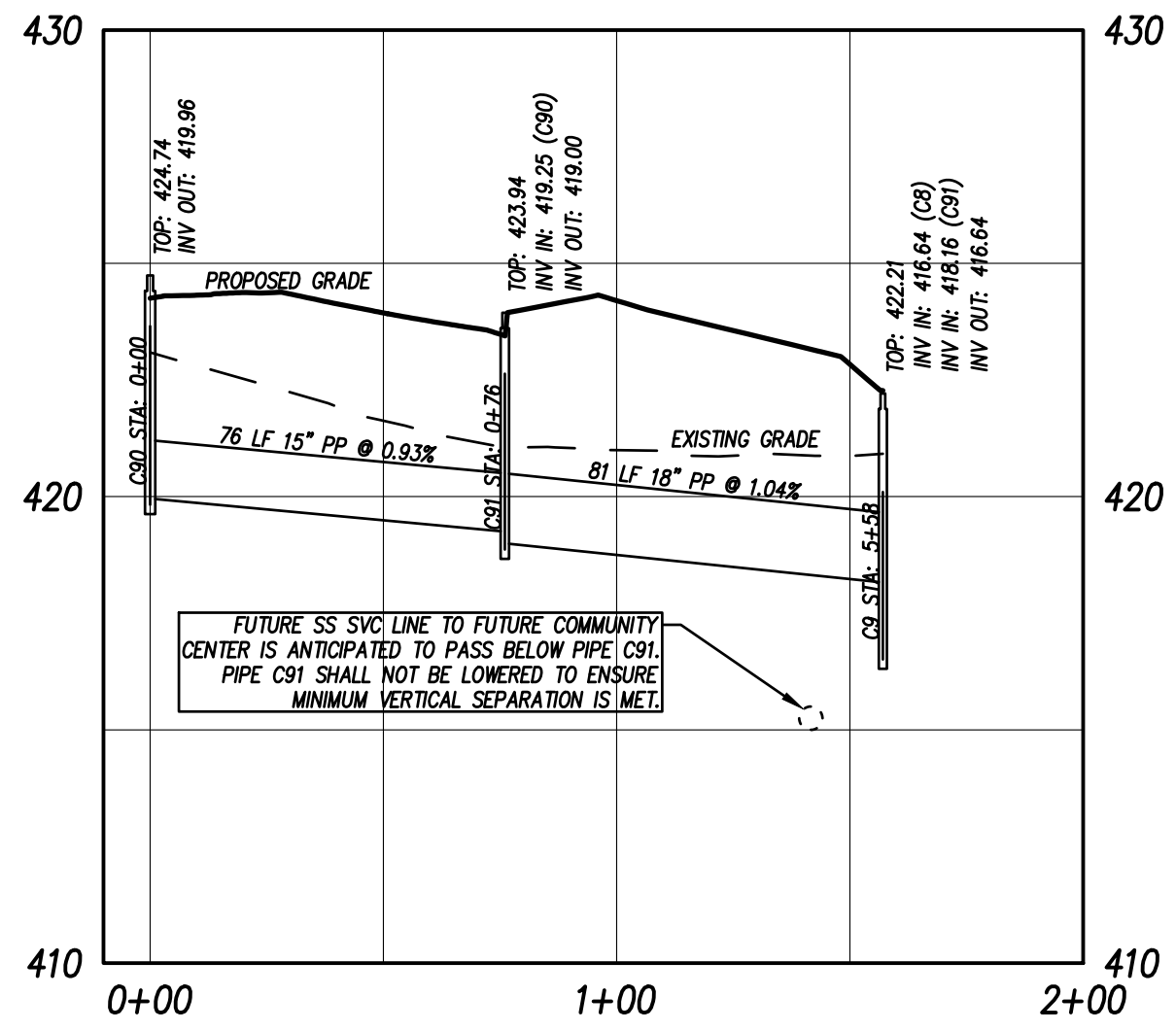
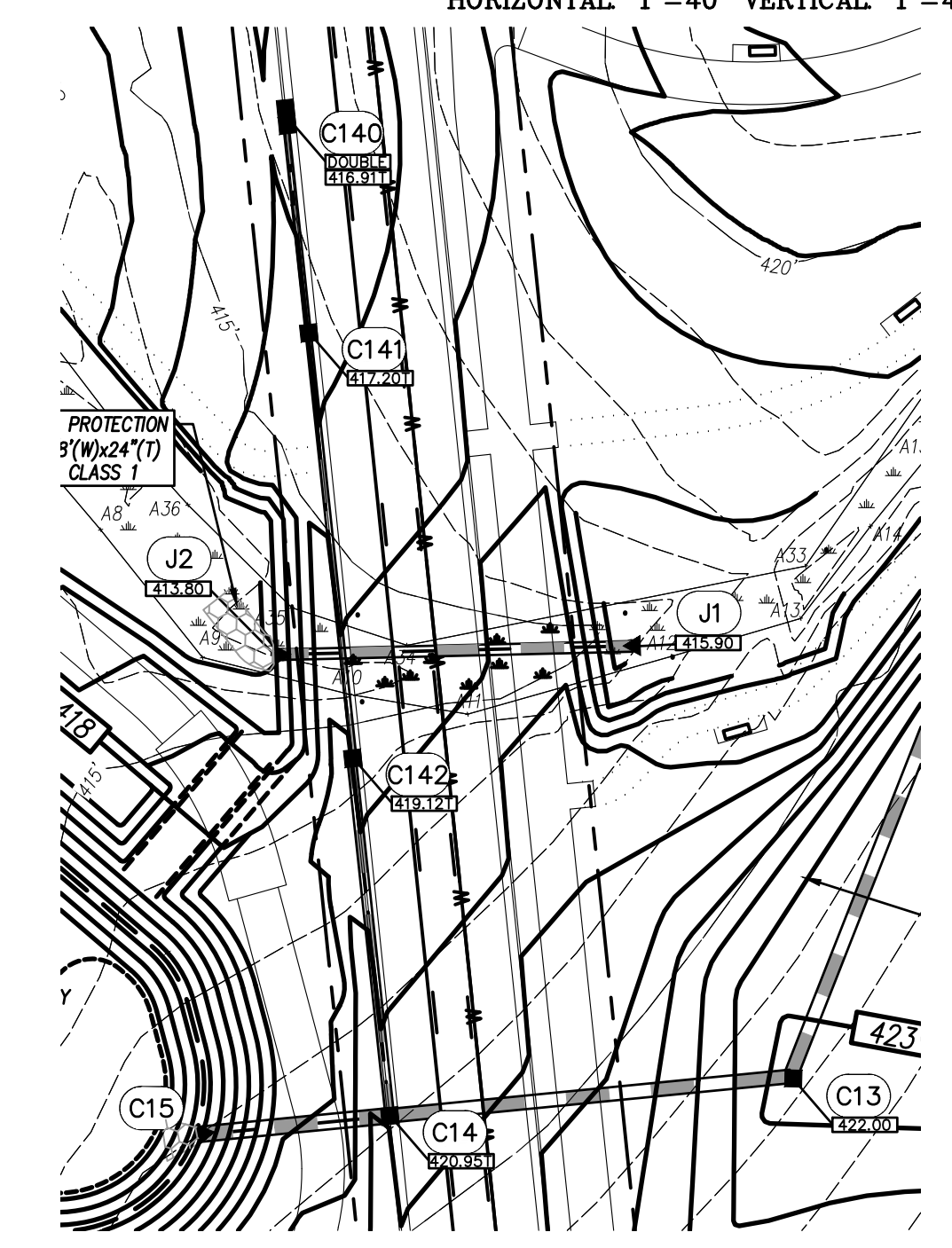
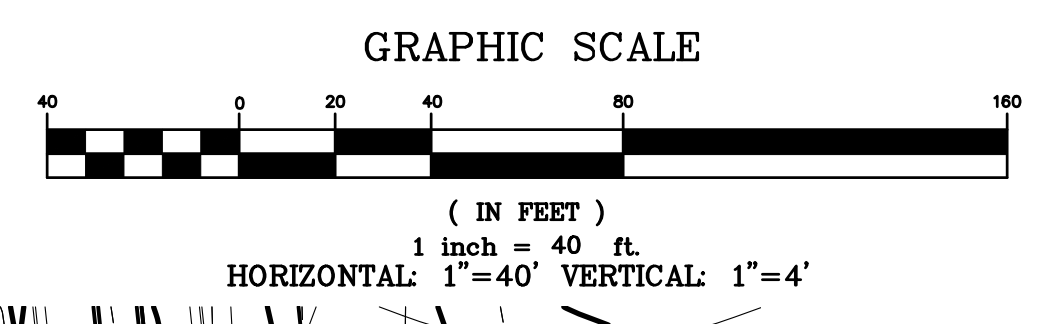
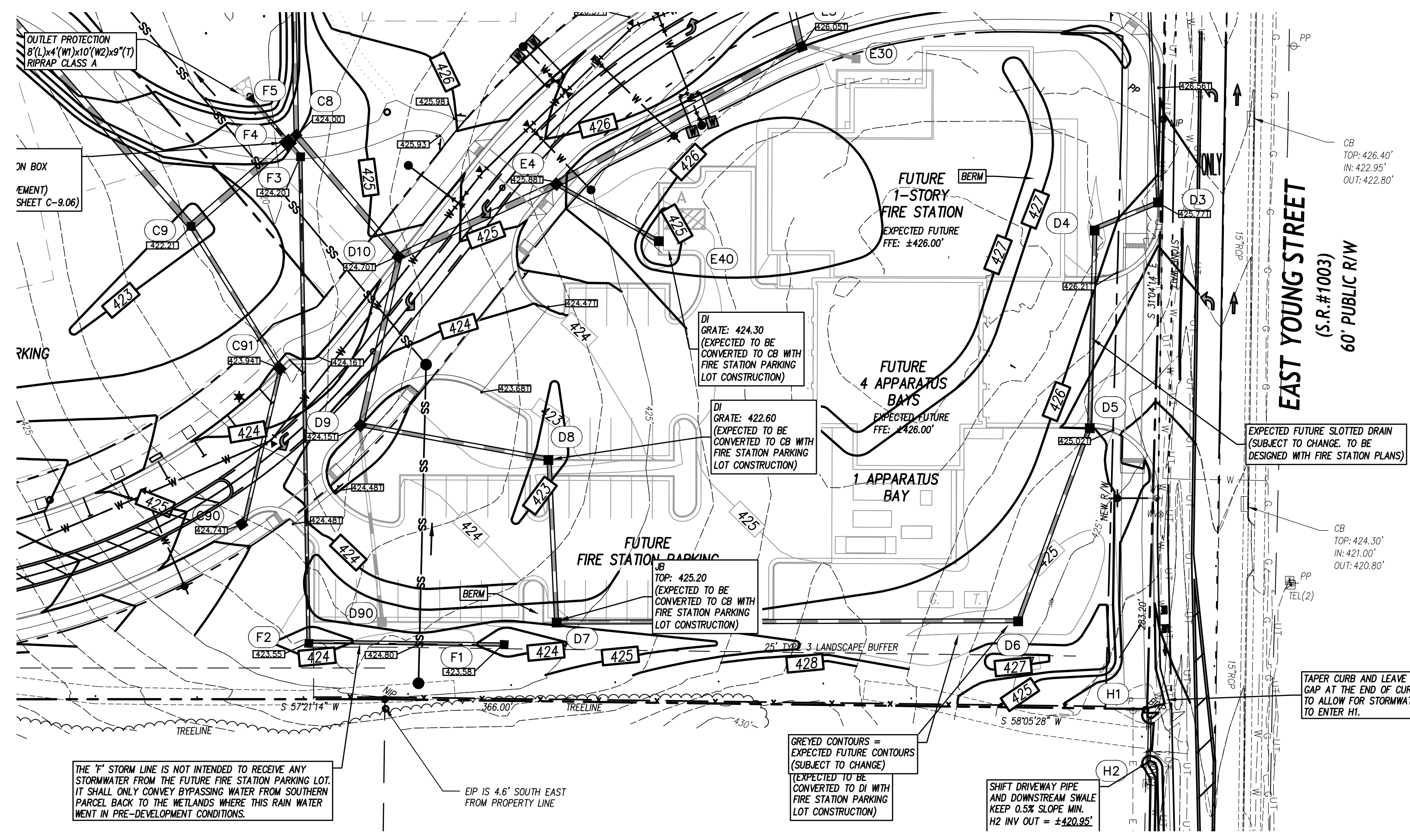
Rolesville Town Campus
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STORM DRAIN PLAN
 & PROFILE LINES
 C1-C13 + C20

C-11.02



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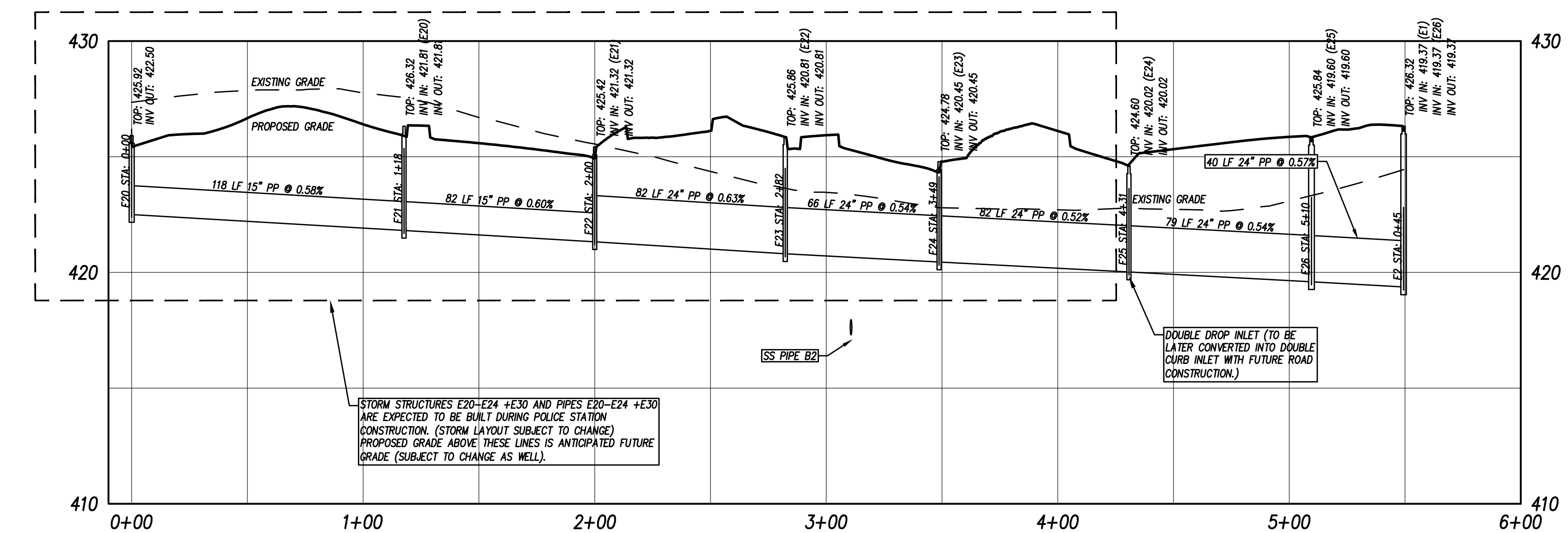
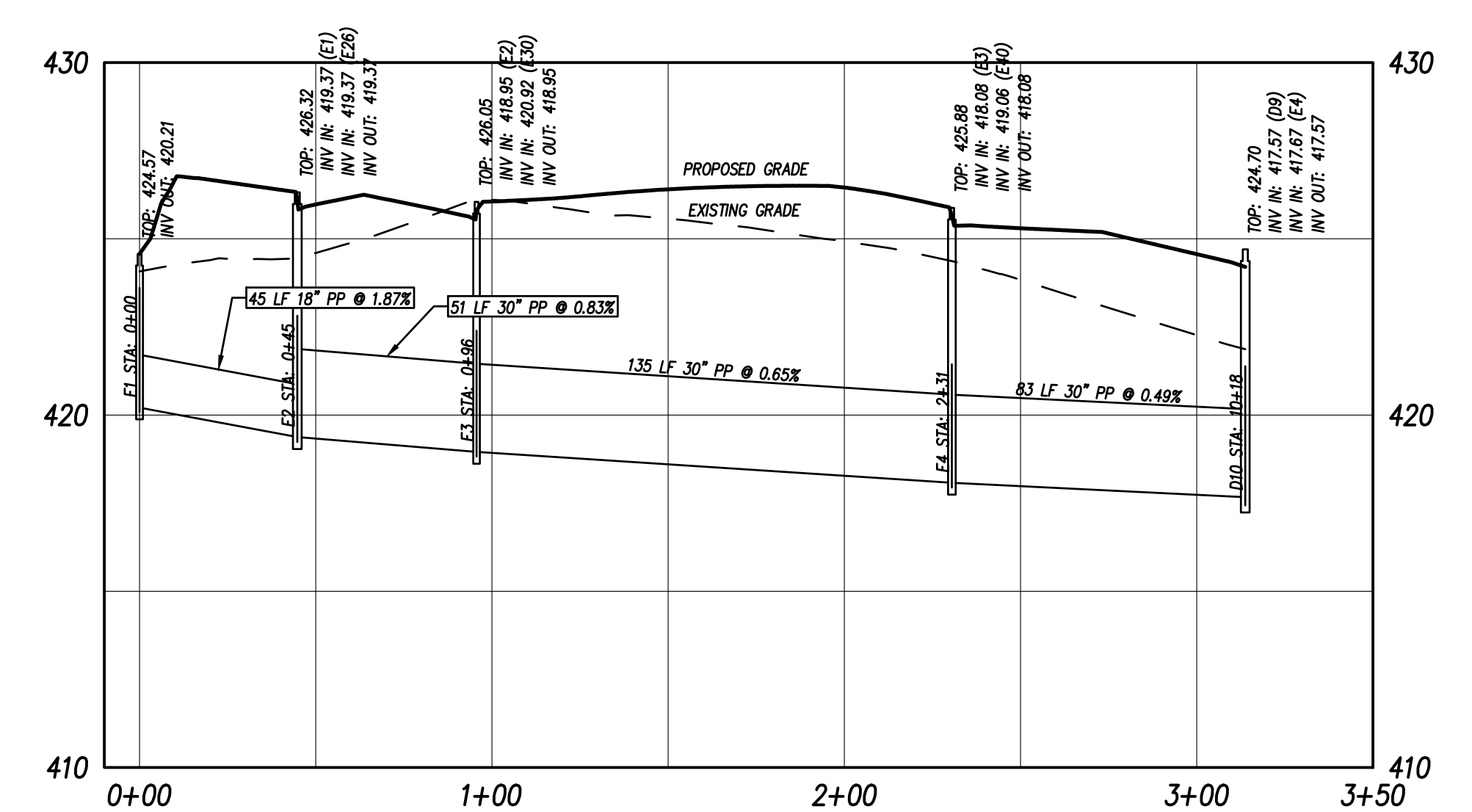
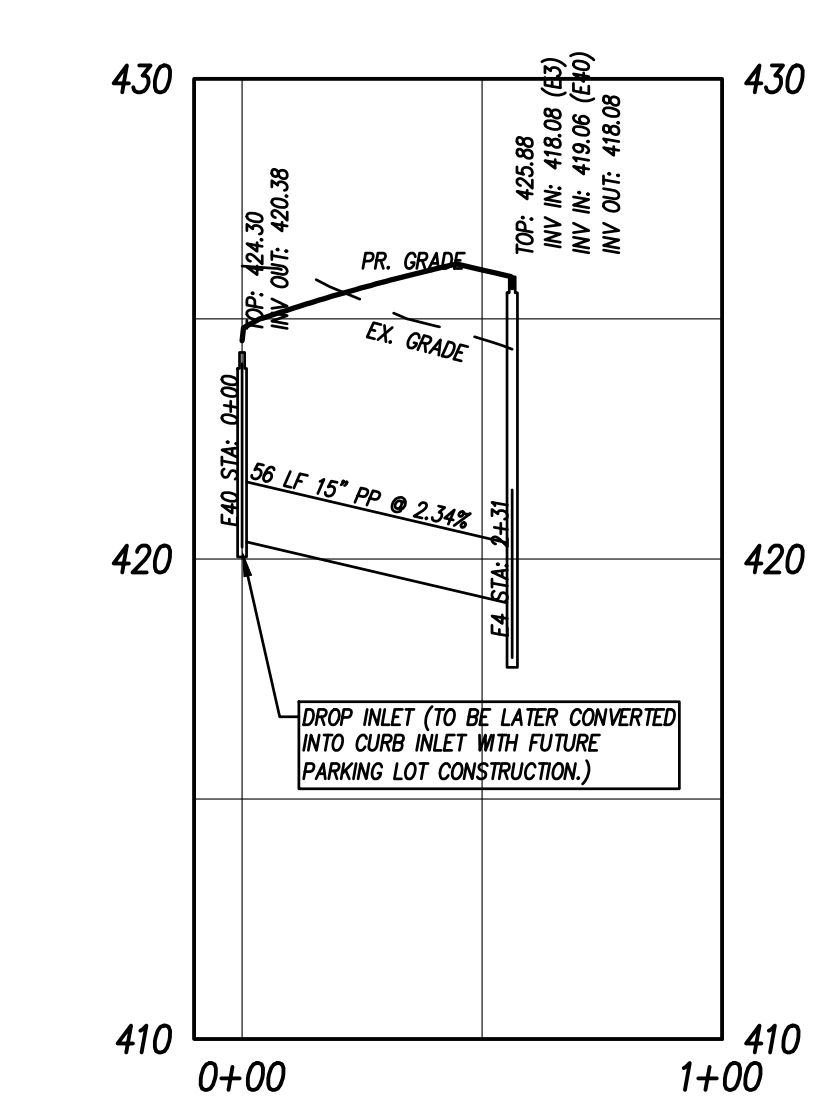
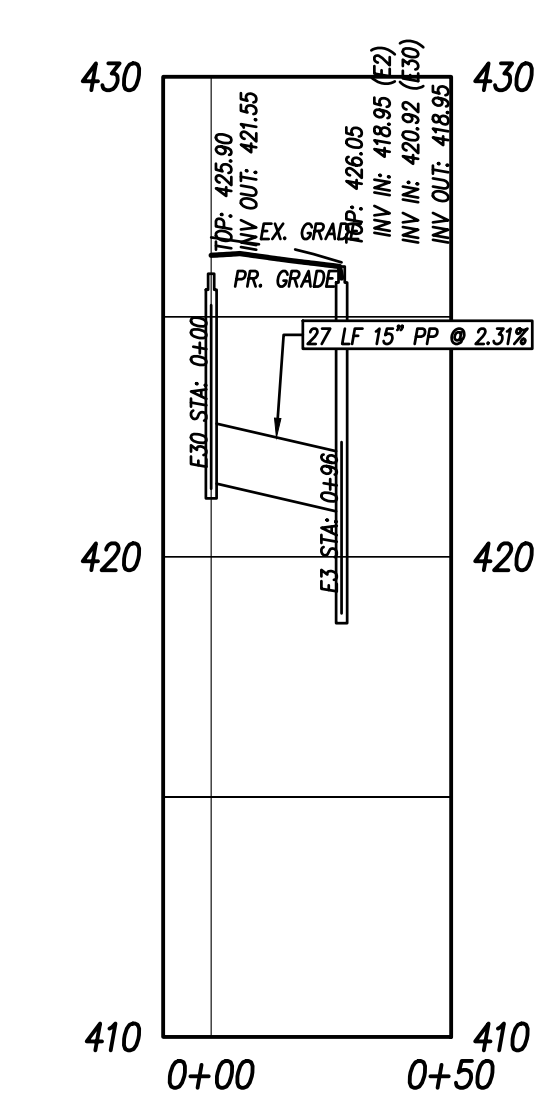
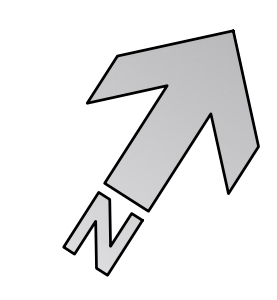
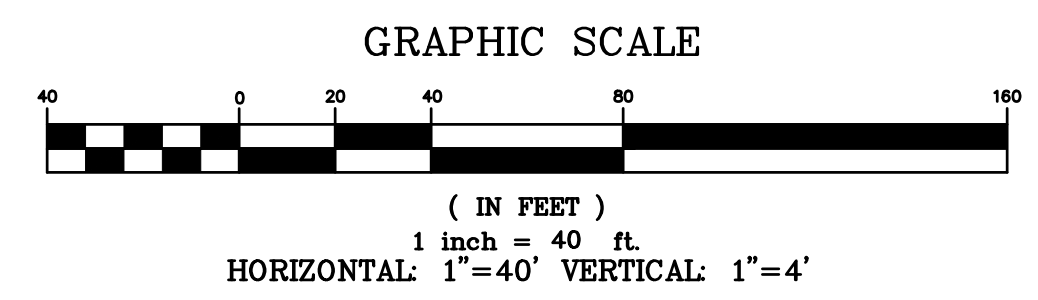
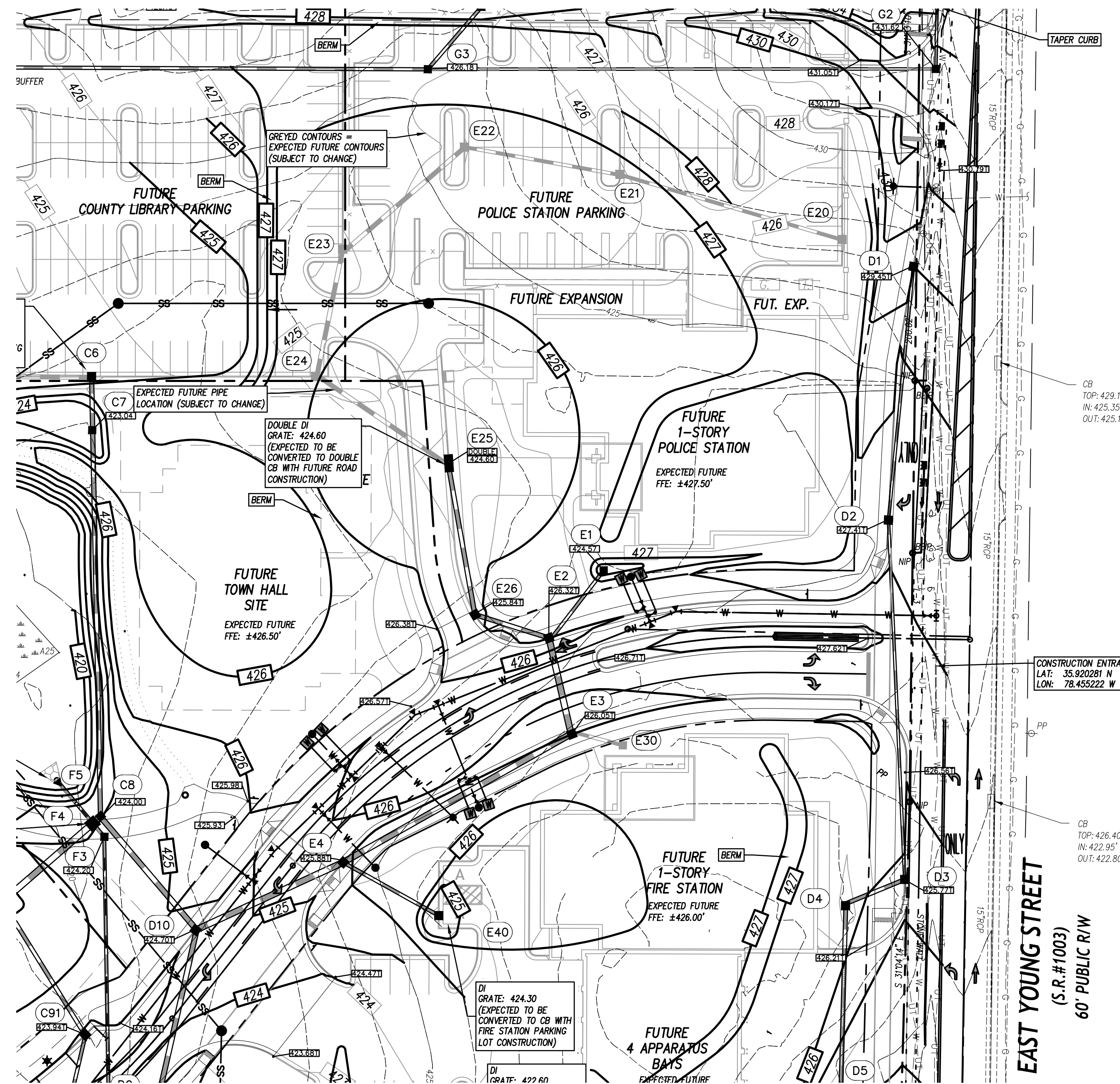
Rolesville Town Campus
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STORM DRAIN PLAN & PROFILE LINES
C90-C91 + C140-C142 + D

C-11.03



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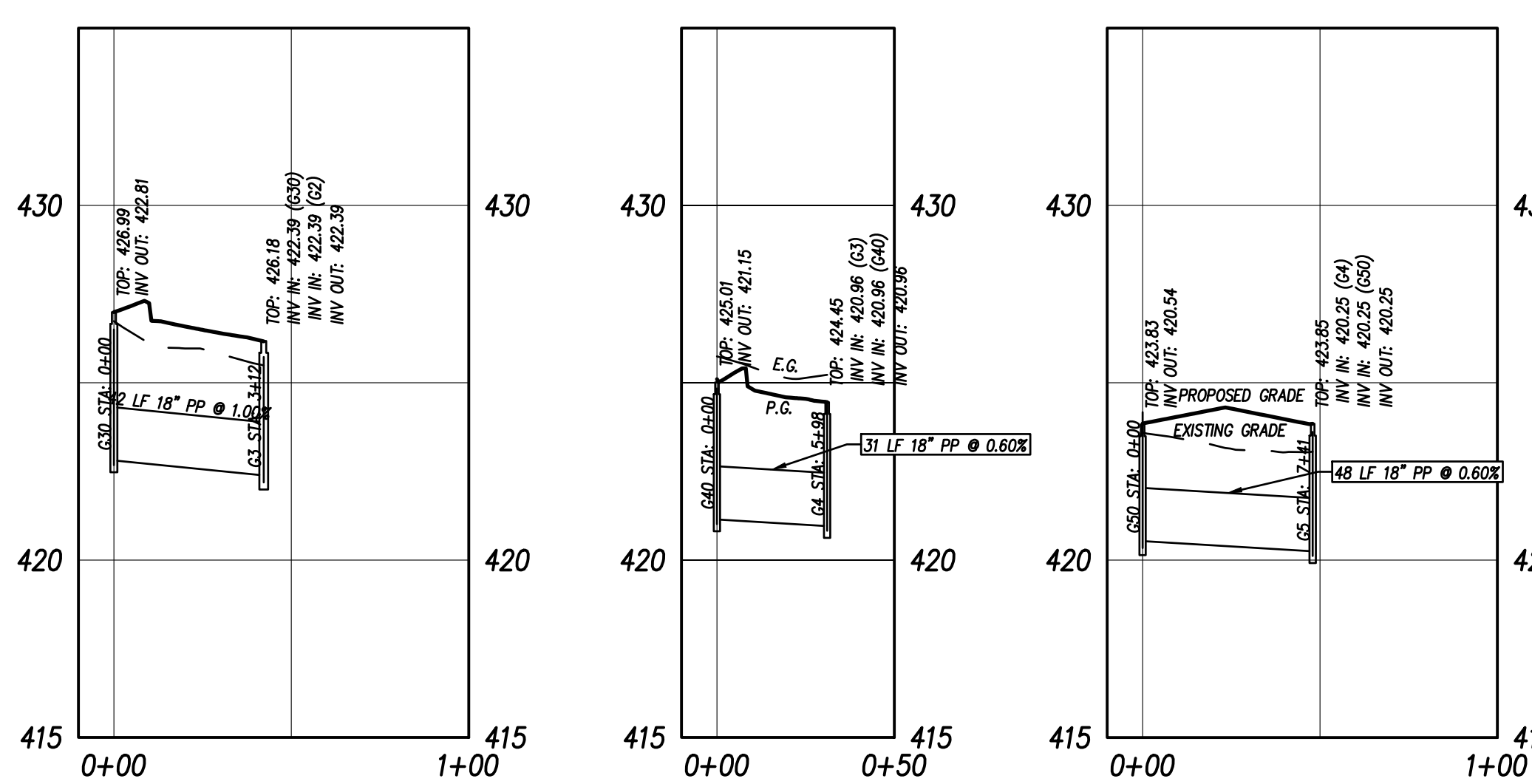
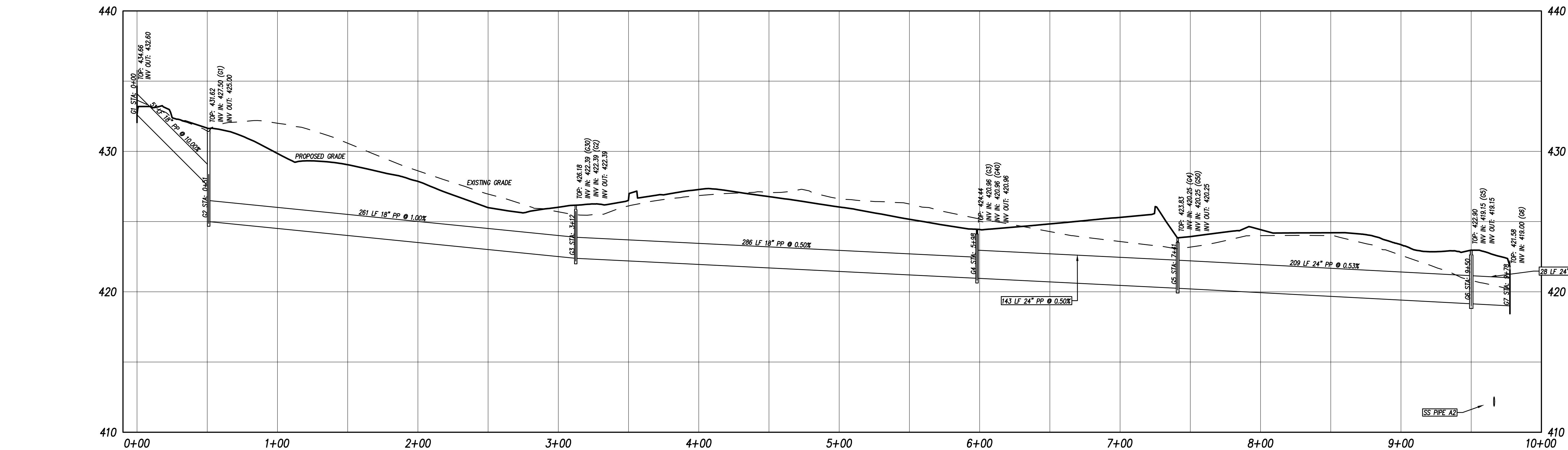
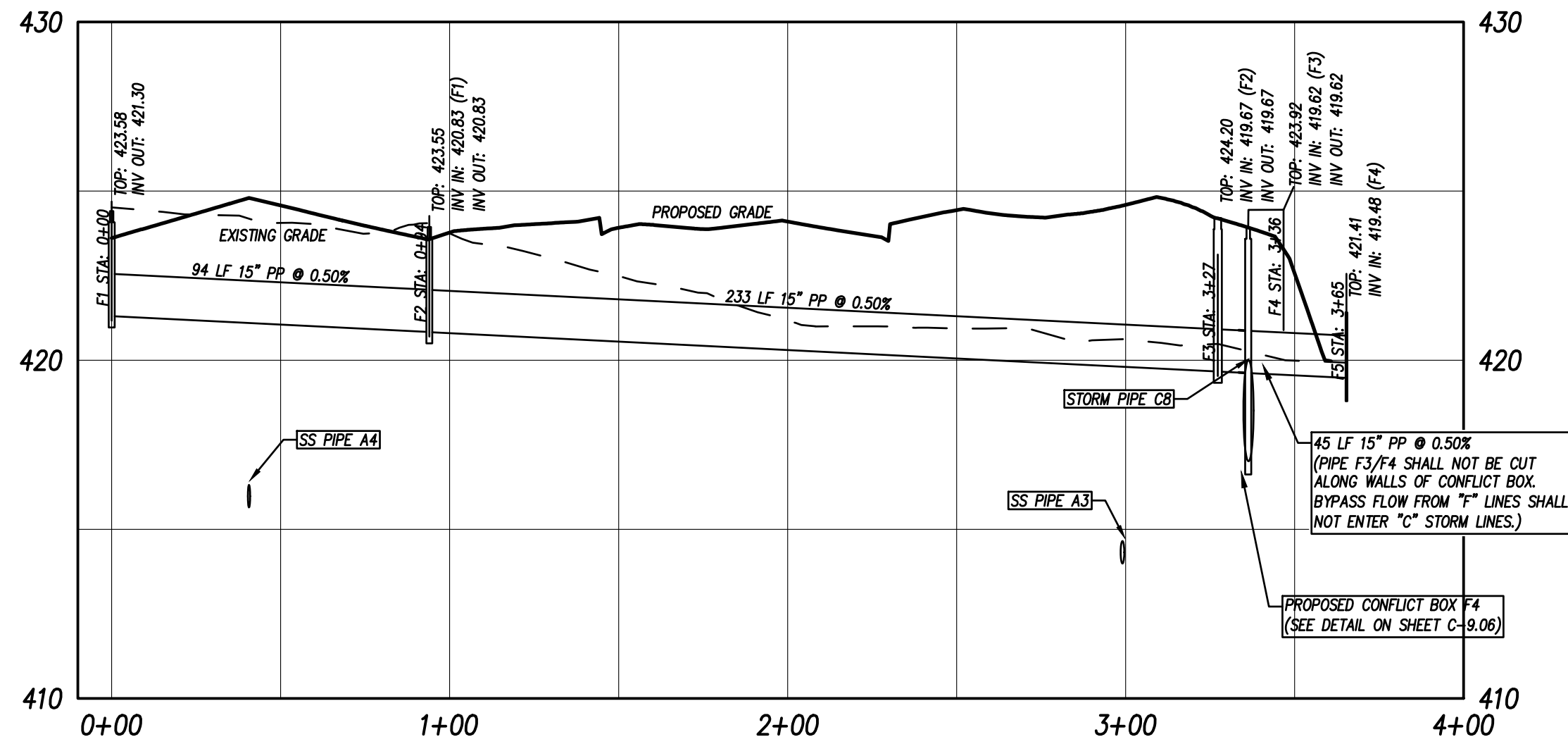
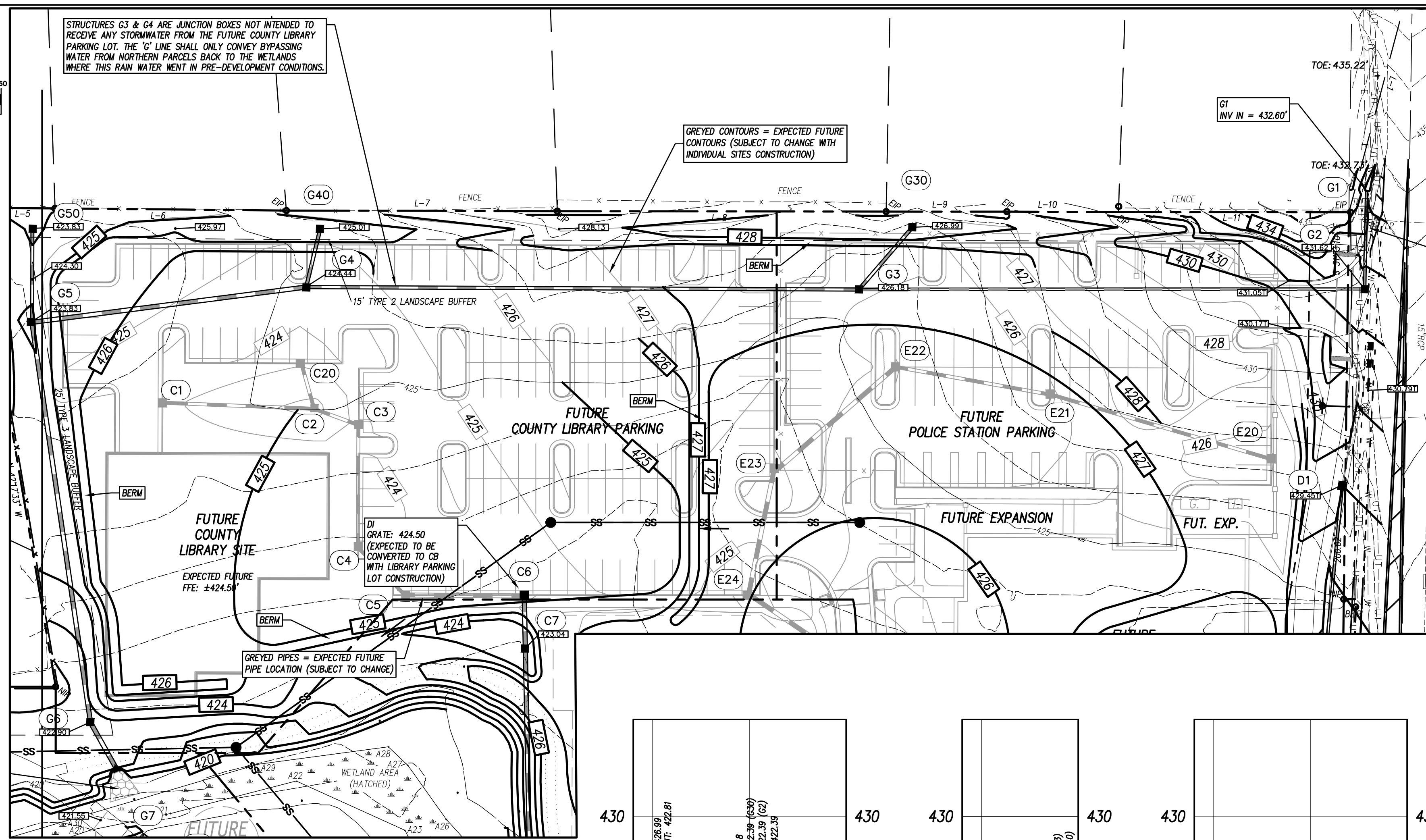
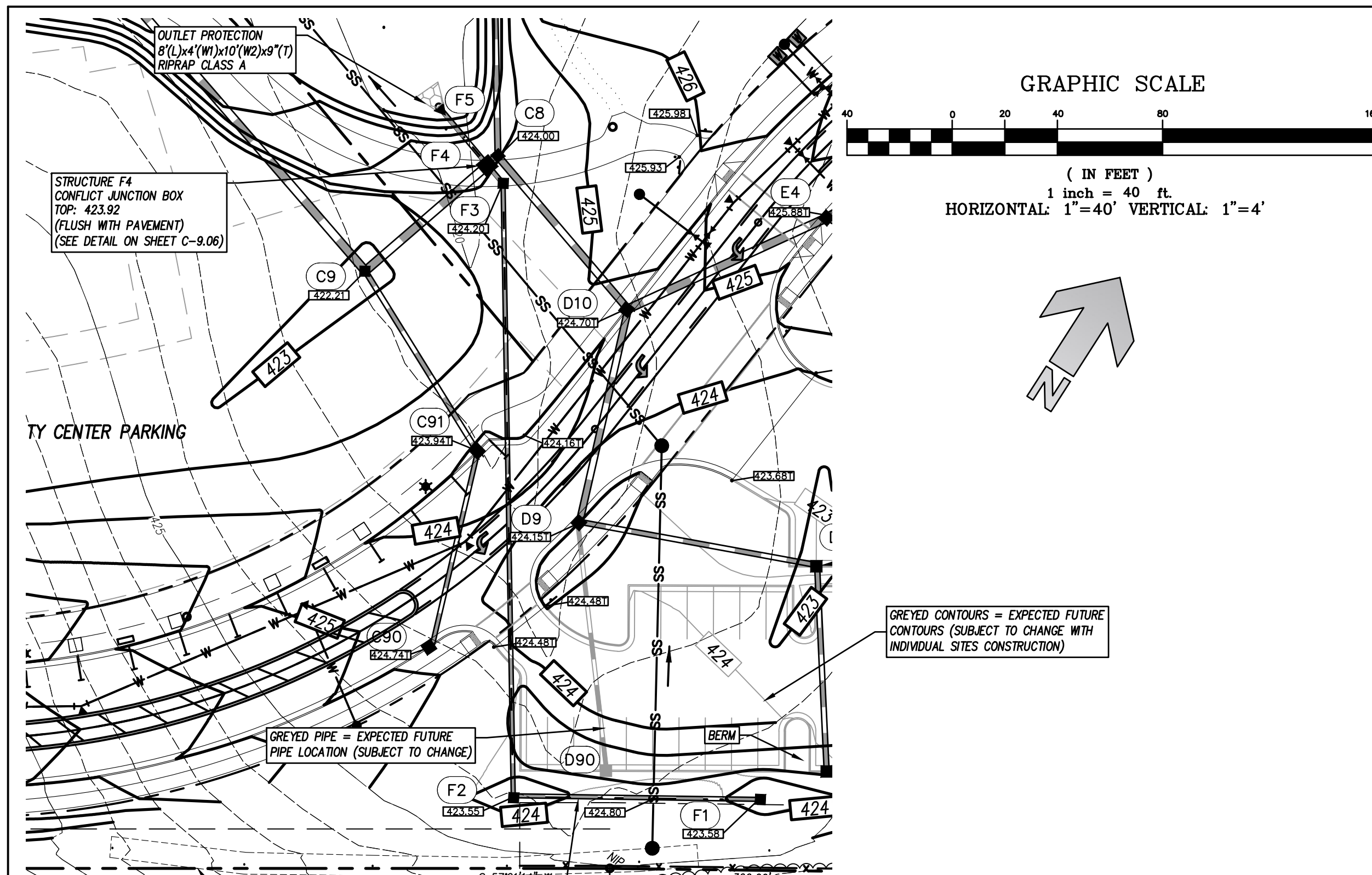
**Rolesville Town Campus
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**STORM DRAIN PLAN
 & PROFILE LINES E**

C-11.04



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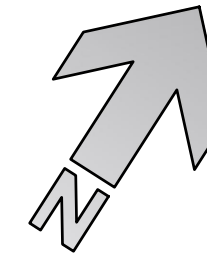
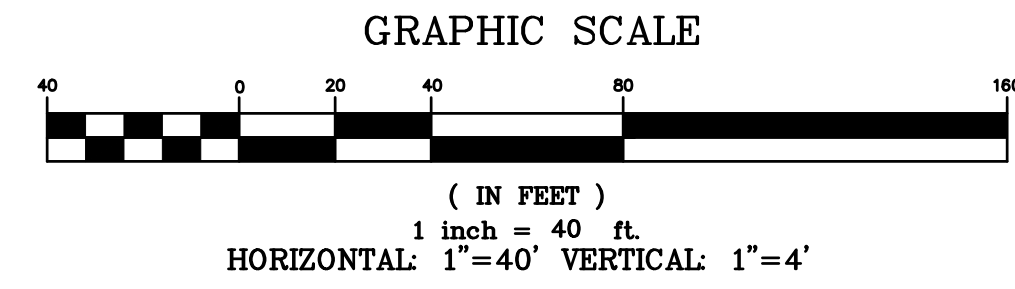
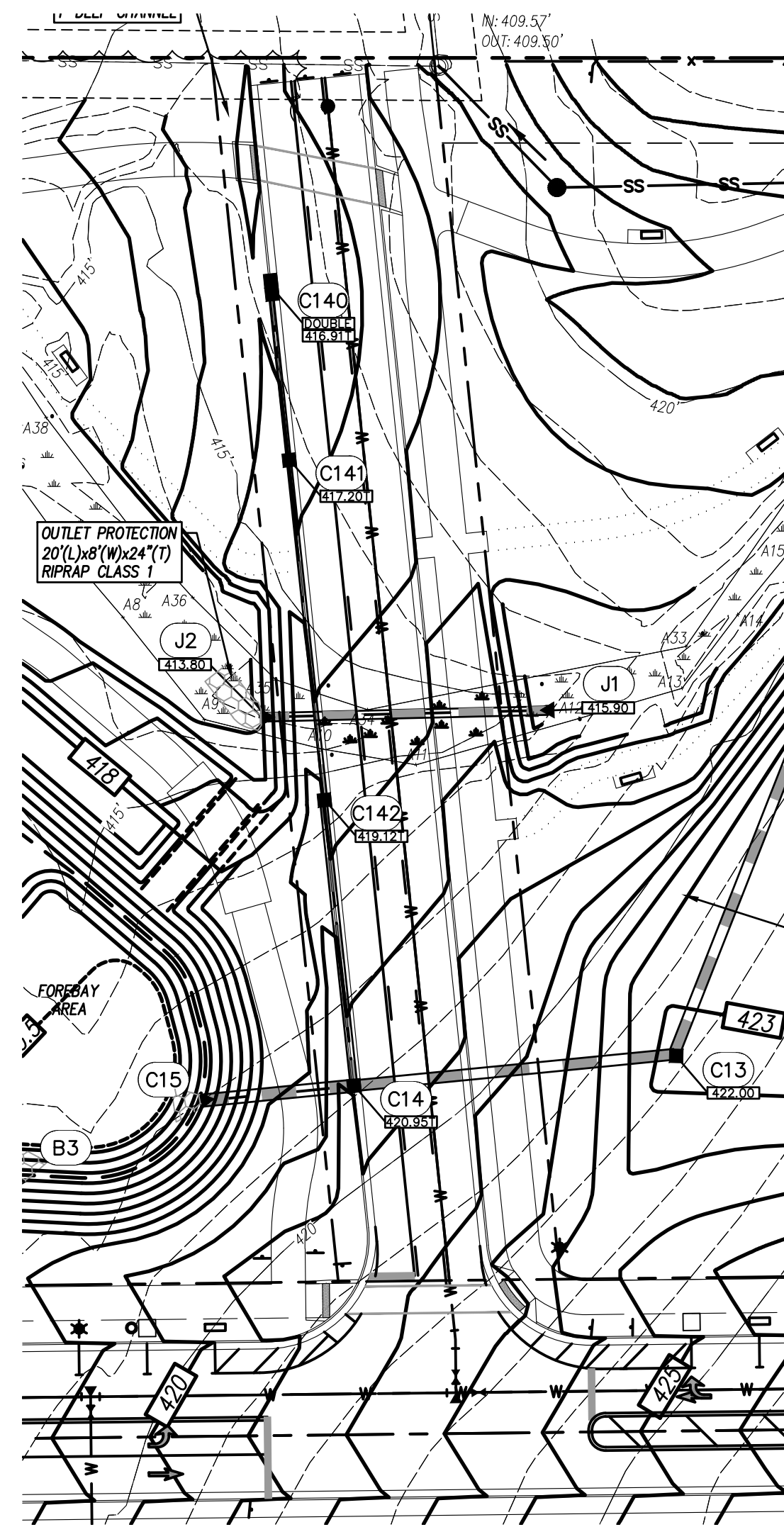
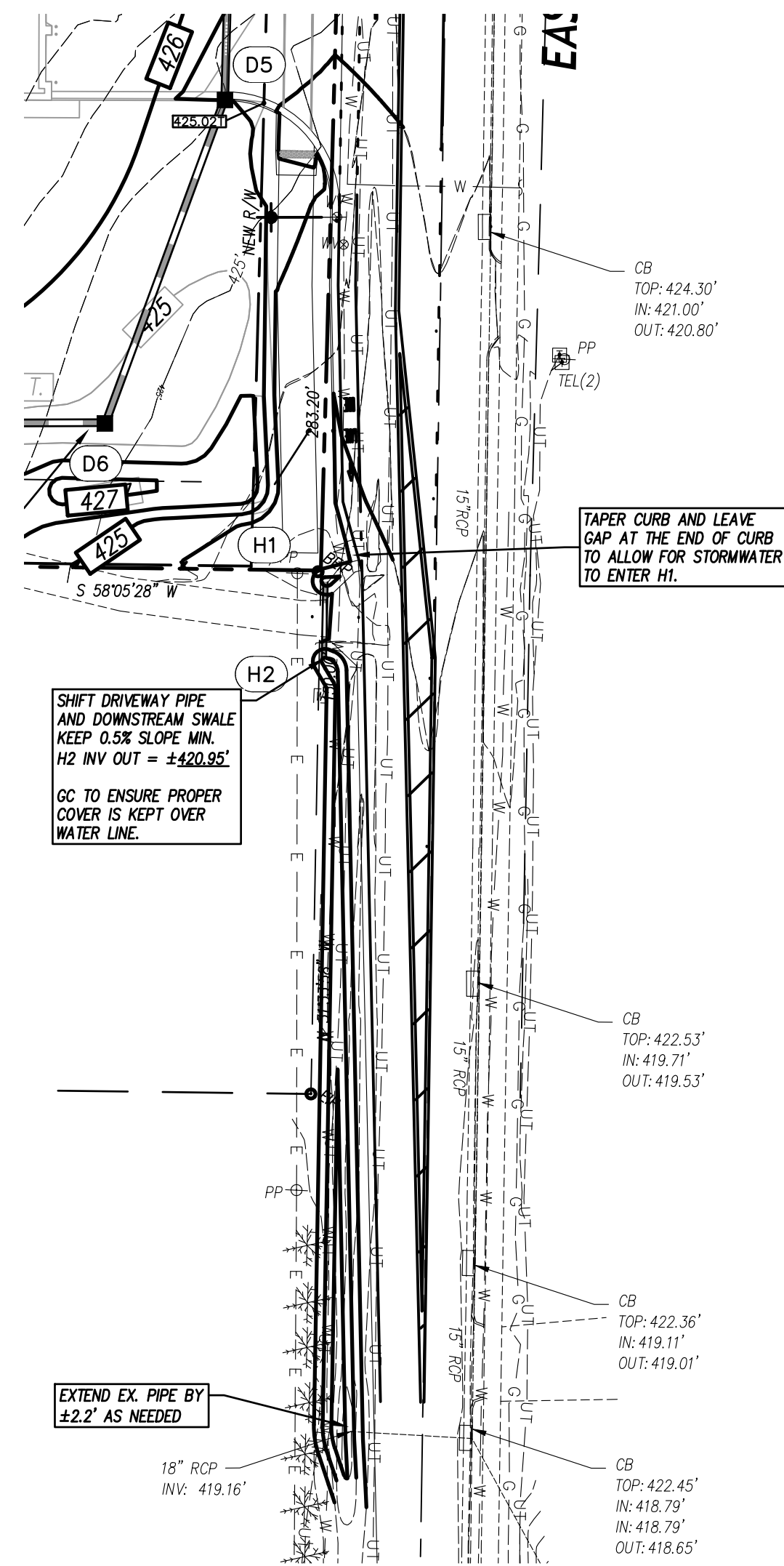
Rolesville Town Campus
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STORM DRAIN PLAN
& PROFILE LINES
F + G

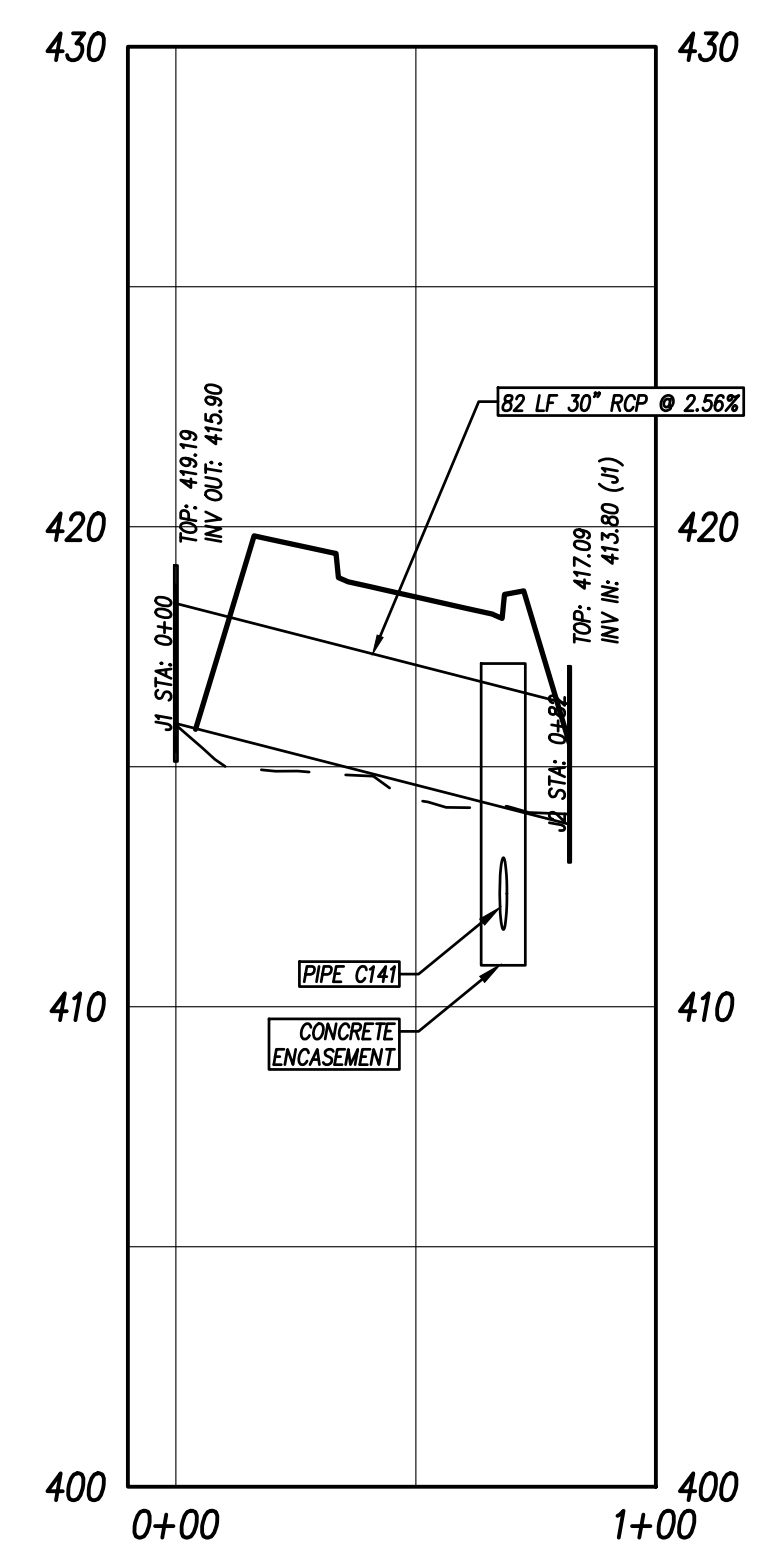
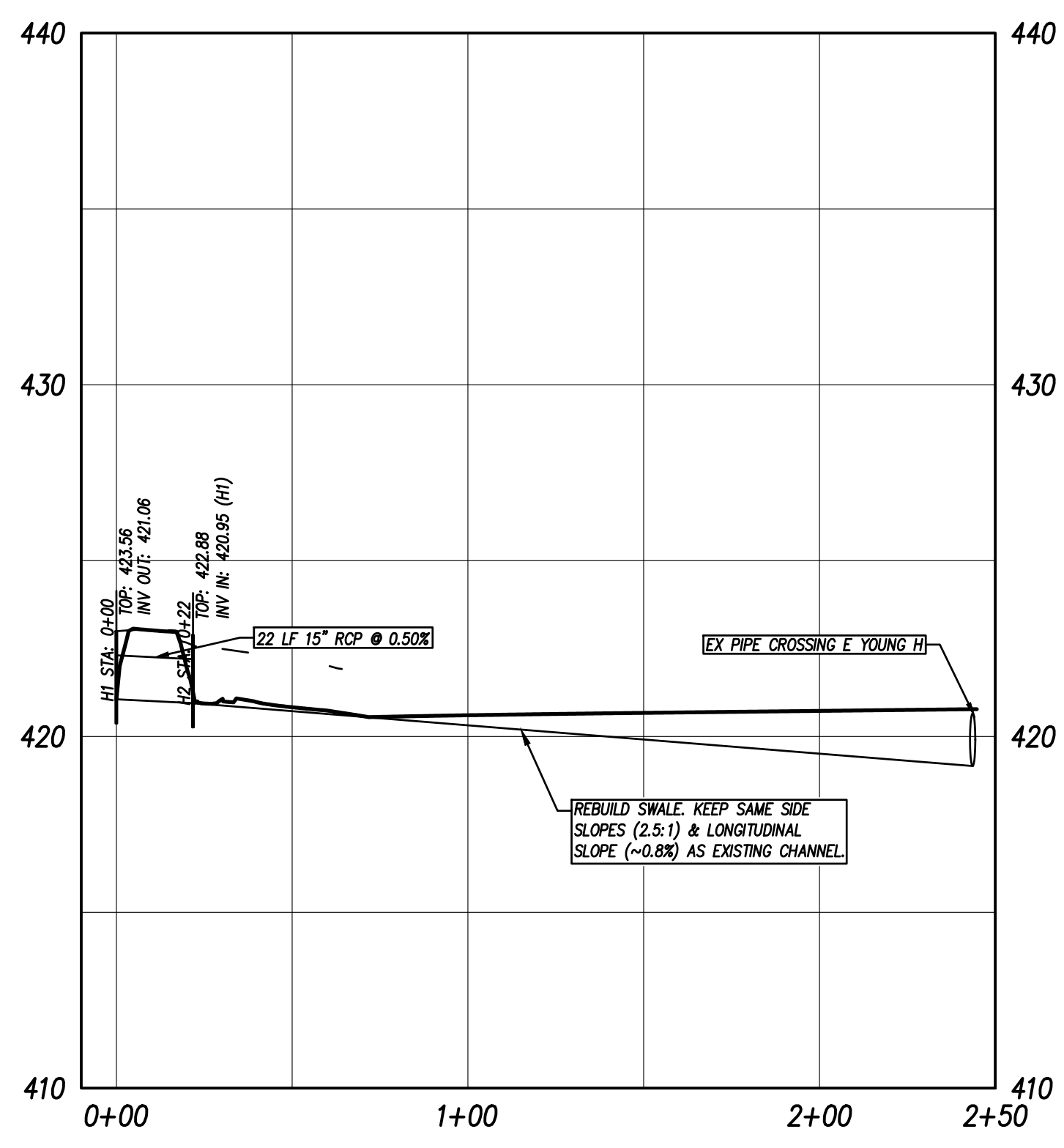
C-11.05



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STORM DRAIN PLAN
& PROFILE LINES
H + J

C-11.06