

CONSTRUCTION DOCUMENT FOR:
ZEBULON PUBLIC SAFETY STATION

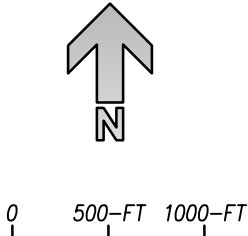
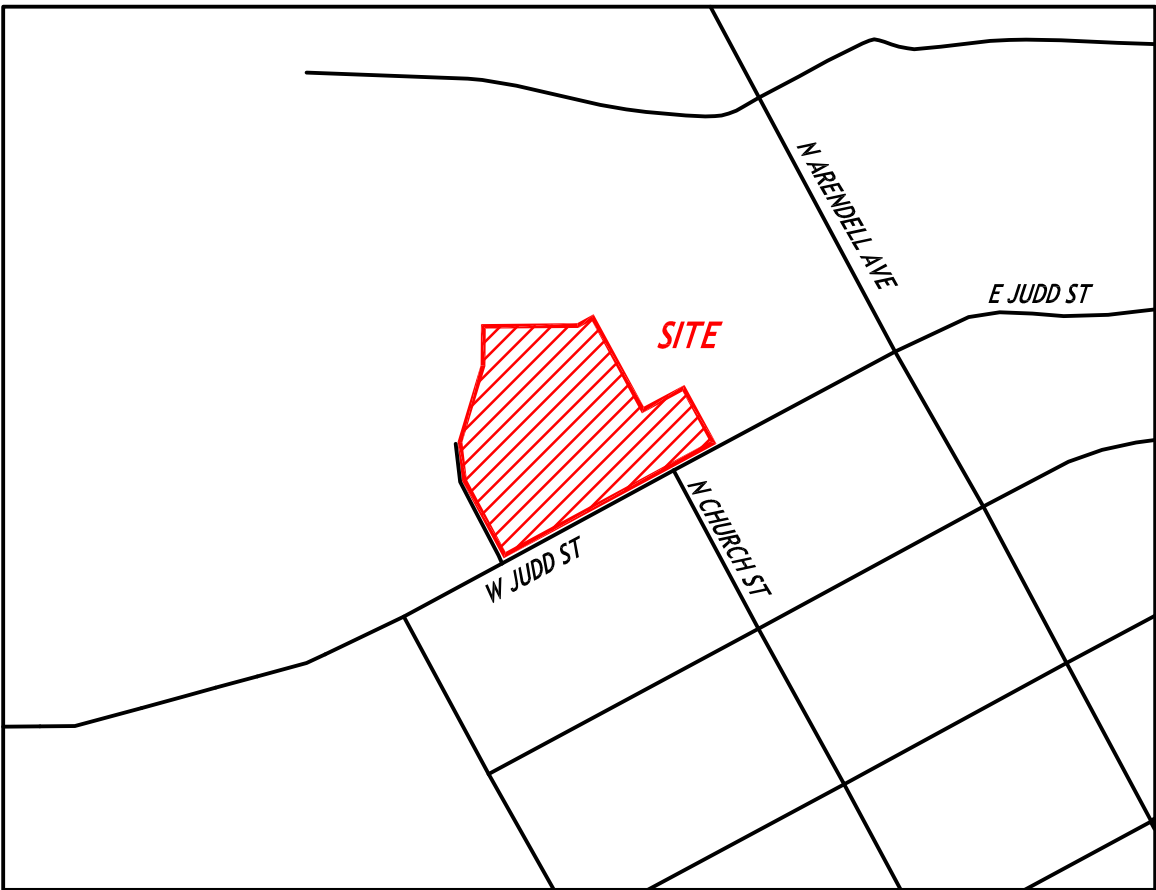
CONSTRUCTION DRAWINGS

DEVELOPMENT PLAN #: 1634214

201 W JUDD ST
ZEBULON, NC 27597

WAKE COUNTY

VICINITY MAP



SITE DATA

OWNER:	TOWN OF ZEBULON
OWNER CONTACT:	CHRISTOPHER C. PERRY, CFO FIRE CHIEF 113 E. VANCE STREET ZEBULON, NC 27597 PHONE: 919-823-1840 EMAIL: CPERRY@TOWNOFZEBULON.ORG
CIVIL/LANDSCAPE ARCHITECT:	CLH DESIGN, P.A.
DESIGNER CONTACT:	YHOSHUA AAL-ANUBIA, PLA - SENIOR PROJECT MANAGER 919-319-6716 400 REGENCY FOREST DRIVE, STE. 120 CARY, NC 27518 YAALANUBIA@CLHDESIGNPA.COM
ARCHITECTURAL:	ADW ARCHITECTS
DESIGNER CONTACT:	MIKE A. ESPOSITO - SENIOR PRINCIPAL 704-379-1919 2815 COLISUEM CENTRE DRIVE, SUITE 500 CHARLOTTE, NC 28217 MESPOSITO@ADWARCHITECTS.COM
PROJECT ADDRESS:	201 W. JUDD STREET ZEBULON, NC, 27597
PLANNING JURISD:	TOWN OF ZEBULON
PIN:	2705180148
REID:	0103437
DEEDED ACREAGE:	11.13 AC
ZONING:	O1
FRONT SETBACK:	20
SIDE SETBACK:	0 OR 5
REAR SETBACK:	25
EXISTING LAND USE:	SUBURBAN COMMERCIAL (SC)
PROPOSED LAND USE:	SUBURBAN COMMERCIAL (SC)
DISTURBED AREA:	4.05 ACRES
EXISTING IMPERVIOUS AREA:	0 ACRES
PROPOSED ON-SITE IMPERVIOUS:	1.97 ACRES
PROPOSED OFF-SITE IMPERVIOUS:	0.22 ACRES
PROPOSED OPEN AREA SET-ASIDE:	±0.83 ACRES
BUILDING AREA SF:	±25,000 SF
PARKING REQUIREMENT:	REQUIRED
VEHICLE PARKING	1 PER 600 SF - 42 SPACES
ACCESSIBLE PARKING	3 SPACES (1 VAN)
BICYCLE PARKING	1 PER 20 VEHICLE - 3 SPACES
FEMA 100-YEAR FLOODPLAIN:	NOT PRESENT

SHEET INDEX

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C001	COVER SHEET
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C201	EXISTING CONDITIONS
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C803	UTILITY DETAILS
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C903	LANDSCAPE DETAILS

INFRASTRUCTURE INSPECTIONS QUANTITIES TABLE			
Phase Number(s)	PHASE 1	PHASE 2	PHASE 3
Number of Lot (s)	1		
Lot Number (s) by Phase	N/A		
Number of Units	N/A		
Livable Buildings	1		
Open Space?	N/A		
Number of Open Space Lots	0		
Public Water (LF)	0		
Private Water* (LF)	318		
Public Sewer (LF)	0		
Public Force Main (LF)	0		
Private Sewer** (LF)	0		
Public Street (LF) - FULL	0		
Public Street (LF) - PARTIAL	625		
Public Sidewalk (LF) - FULL	522		
Public Sidewalk (LF) - PARTIAL	0		
Multi-Use Path*** (LF)	0		
Public Stormdrain (LF)	34		
Street Signs (LF)	0		
Water Service Stubs	1		
Sewer Service Stubs	1		
Average Daily Flow per phase****	450-GPD		

**Water mains 4" and larger
***Sewer mains and manholes as part of a collection system
****10 or 12 ft wide path in lieu of sidewalk or a Multi-Use path as part of a development amenity
*****Entire Project Flow. Based on 75gpd per bedroom for residential (Apartments, single family dwelling, townhouse, condos), or based on 15A NCAC 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.

CERTIFICATION/STANDARD TOWN NOTES/QUANTITIES/CONDITIONAL APPROVALS/ETC


STORMWATER AND FLOODPLAIN
MANAGEMENT

APPROVED

STORMWATER MGMT. ☐ SWF-_____

FLOOD STUDY ☐ SWF-_____

DATE _____

 ENVIRONMENTAL CONSULTANT SIGNATURE

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.

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ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

COVER SHEET

DATE 07-18-2025

CLH PROJECT NO 22-154

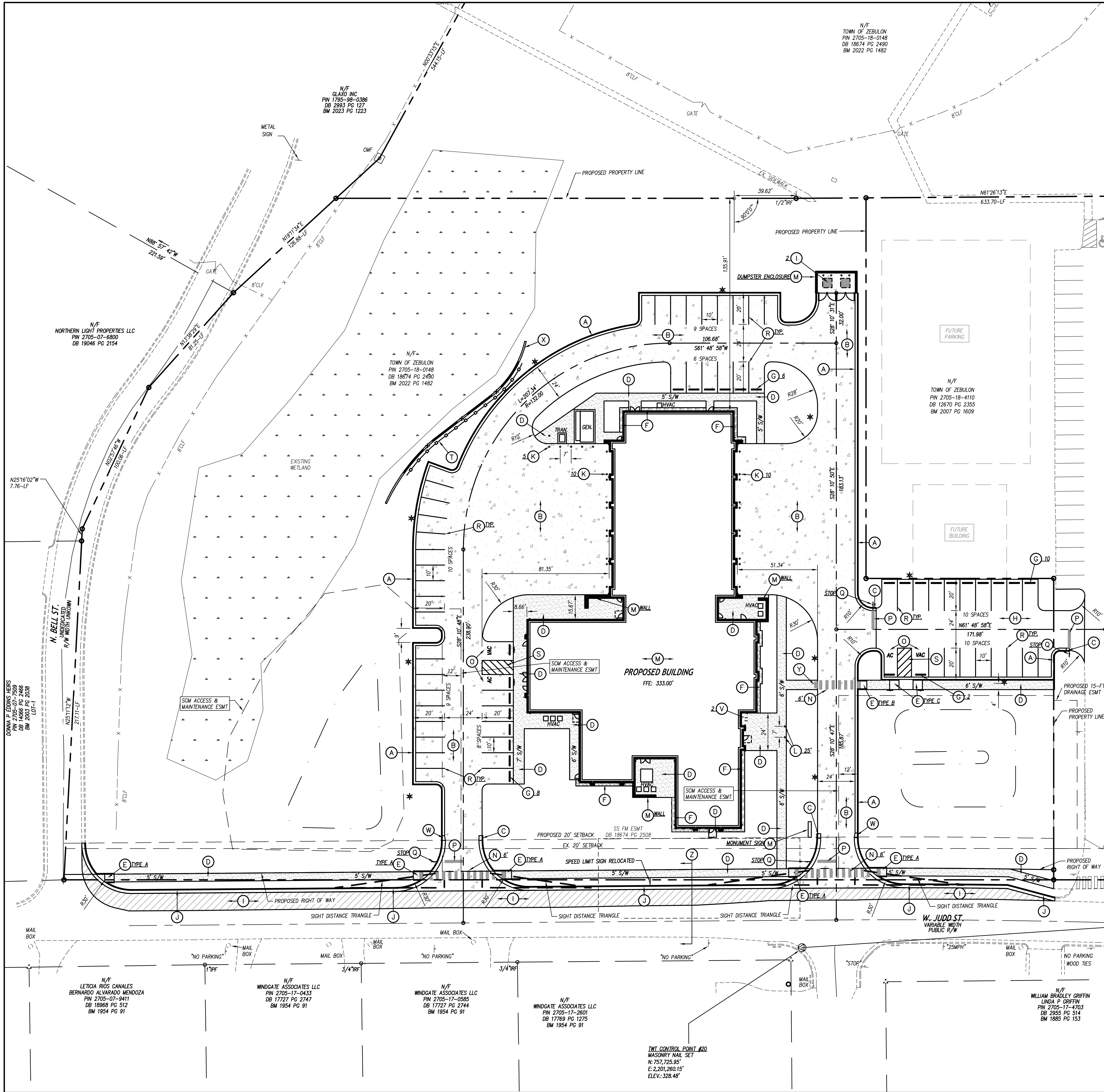
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SHEET NUMBER

C001



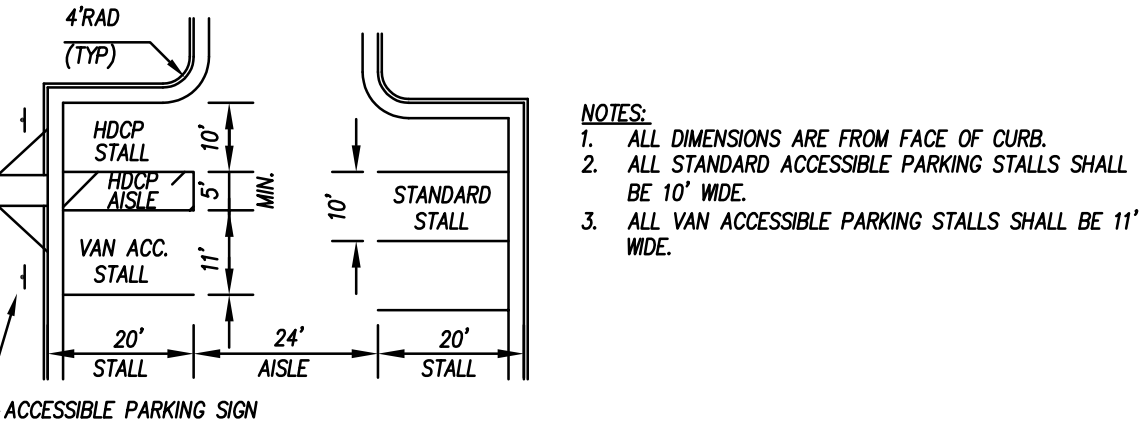
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NC DOT STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
- CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL FACE OF RADI ARE 4-FT UNLESS OTHERWISE SHOWN.
- ALL PARKING SPACES SHALL BE A MINIMUM OF 10-FT WIDE X 20-FT DEEP.
- (AC) DENOTES ACCESSIBLE PARKING SPACE.
- (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
- 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.
- CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
- THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
- 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) 24-IN CURB & GUTTER, SEE DETAIL SHEET C901.
- (B) HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET C901.
- (C) STANDARD CURB & GUTTER TERMINUS, SEE DETAIL SHEET C901.
- (D) CONCRETE SIDEWALK, SEE DETAIL SHEET C901.
- (E) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C902.
- (F) DECORATIVE STONE BAND, SEE DETAIL SHEET C903.
- (G) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C902.
- (H) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
- (I) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
- (J) 30-IN CURB & GUTTER, SEE DETAIL SHEET C901.
- (K) STEEL BOLLARD, SEE ARCH. DETAIL SHEET A500.
- (L) FLAGPOLE, SEE DETAIL SHEET C901.
- (M) SEE ARCHITECTURAL PLANS FOR CANOPY, SCREEN AND STRUCTURAL WALLS, BUILDING COLUMNS, BOLLARDS, DUMPSTER ENCLOSURE, MONUMENT SIGN AND MECHANICAL SERVICE YARD.
- (N) H-VIS CROSS WALK, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (O) ACCESSIBLE PARKING & SIGNAGE, SEE DETAIL SHEET C902.
- (P) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (Q) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (R) PARKING SPACE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (S) DIAGONAL STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (T) TRAFFIC GUARDRAIL, SEE DETAIL SHEET C902.
- (U) DUMPSTERS, PROVIDED BY OWNER.
- (V) BIKE RACK, SEE SPECIFICATIONS. SEE DETAIL SHEET C902.
- (W) 24" TO 30" C&G TRANSITIONS. SEE DETAIL SHEET C901.
- (X) SEGMENTAL RETAINING WALL BY OTHERS.
- (Y) DETECTABLE WARNING DOMES, SEE DETAIL SHEET C902.
- (Z) ROAD SECTION, SEE DETAIL SHEET C902.

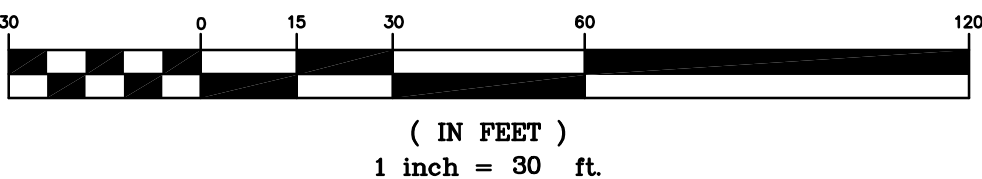
TYP. PARKING DIMENSIONS



TRAFFIC CONTROL NOTES

- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NC DOT STANDARDS.
- 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.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NC DOT STANDARDS AND THE PROJECT SPECIFICATIONS.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKO-RESIN TYPE PAINT.
- ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
- CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
- COORDINATE FIRE LANE MARKINGS WITH TOWN OF ZEBULON FIRE MARSHAL.
- ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

GRAPHIC SCALE



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING PLAN

DATE 07-18-2025

CLH PROJECT NO 22-154

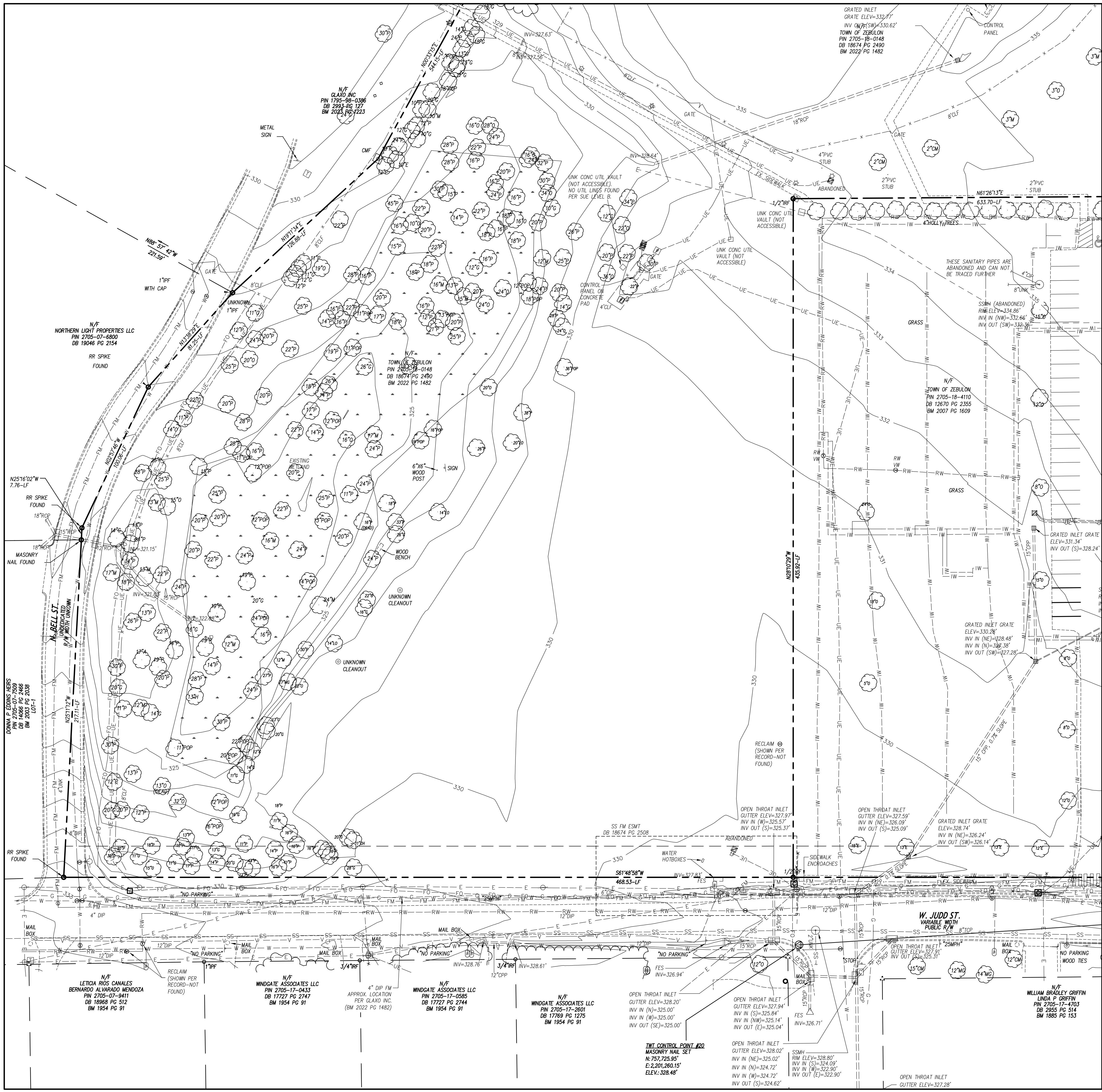
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1 5/30/25 ADDENDUM #1









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SHEET NUMBER

C101



LEGEND	
OVERHEAD ELECTRICAL	----- E -----
UNDERGROUND ELECTRICAL	----- UE -----
FIRE PROTECTION	----- FP -----
GAS	----- G -----
SANITARY SEWER	----- SS -----
TELEPHONE	----- T -----
UNDERGROUND TELEPHONE	----- UT -----
FIBER OPTIC	----- FO -----
WATER	----- W -----
FORCE MAIN	----- FM -----
STORM DRAIN	===== SD =====
INDIVIDUAL TREE	
LIGHT POLE	 LP
UTILITY POLE	 PP
MANHOLE	 MH
CLEAN OUT	 CO
DROP INLET/CATCH BASIN	 DI, CB
FIRE HYDRANT	 FH
WATER VALVE	 WV

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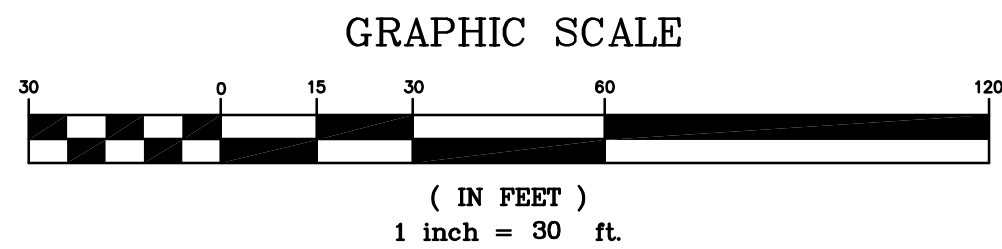
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CONSTRUCTION DOCUMENTS

EXISTING CONDITION

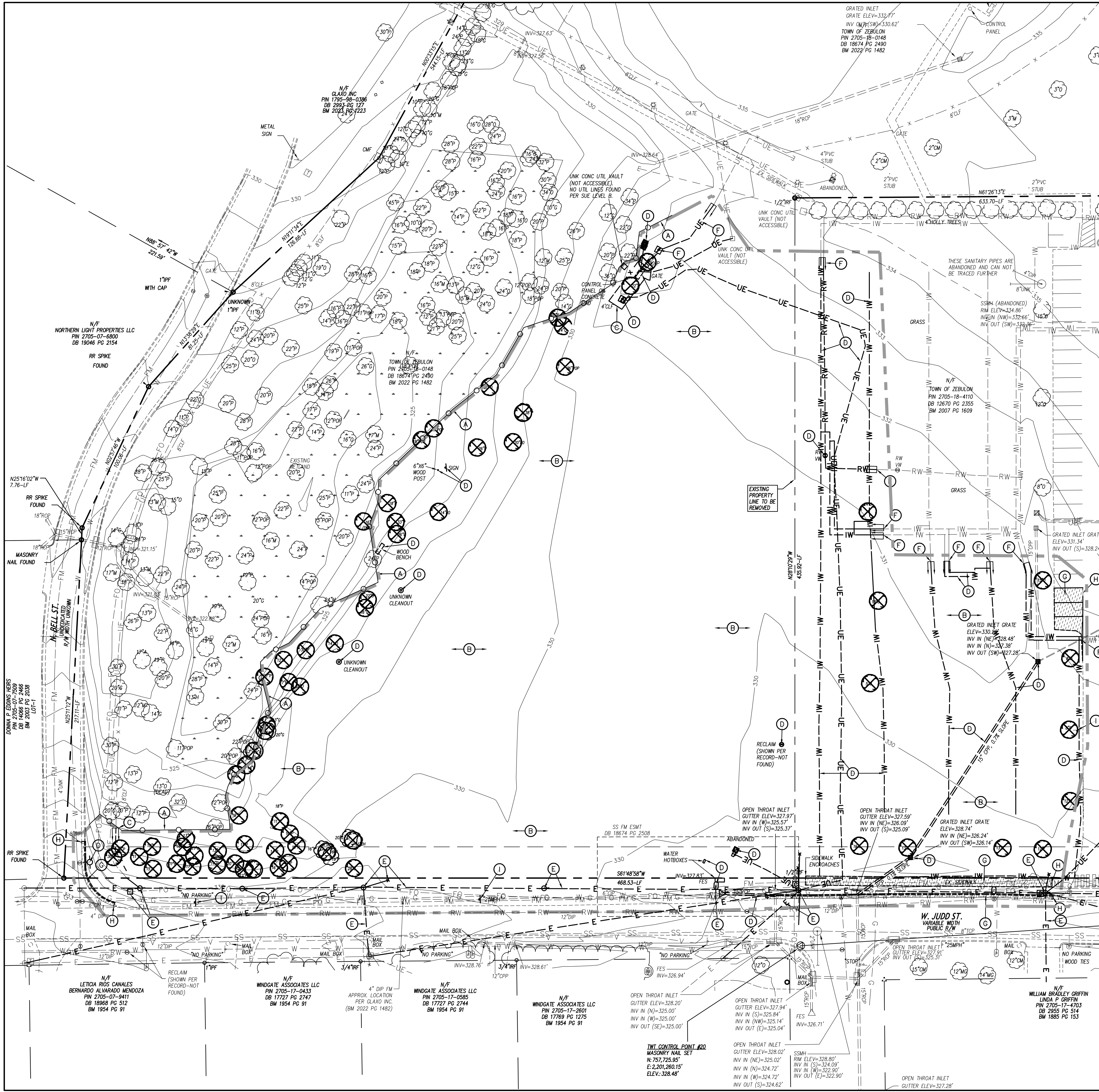
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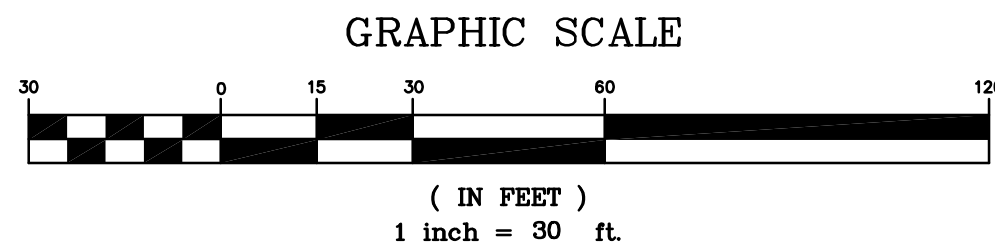
C201



LEGEND	
STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL	OVERHEAD ELECTRICAL
UNDERGROUND ELECTRICAL	UNDERGROUND ELECTRICAL
FIRE PROTECTION	FIRE PROTECTION
GAS	GAS
SANITARY SEWER	SANITARY SEWER
TELEPHONE	TELEPHONE
UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE
FIBER OPTIC	FIBER OPTIC
WATER	WATER
FORCE MAIN	FORCE MAIN
STORM DRAIN	STORM DRAIN
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	PAYMENT, S/W, C&G TO BE REMOVED
TREE PROTECTION FENCE	

- 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 PAVEMENT 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. 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 TAYLOR WISEMAN & TAYLOR, PERFORMED REX V. BOHN. 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 3-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. AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY STAGING AREAS, ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON 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.
 - THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720270500K, DATED 7/19/2022 AS BEING WITHIN ZONE "X-OTHER AREA".
 - 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.
 - MITIGATION MEASURE #3 - WETLANDS: WHEN DISPOSING OF EXCESS, SPOIL, OR OTHER CONSTRUCTION MATERIALS ON PUBLIC OR PRIVATE PROPERTY, CONTRACTOR SHALL NOT FILL IN OR OTHERWISE CONVERT WETLANDS. PER REQUIREMENTS OF CONSOLIDATED FARM AND RURAL DEVELOPMENT ACT (CONFACT), NO IMPACTS TO WETLANDS ARE PERMITTED.

- KEY NOTES**
- TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C903.
 - CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.
 - FENCE TO BE REMOVED.
 - STRUCTURE/UTILITY TO BE REMOVED.
 - 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.
 - EXTENTS OF UTILITY DEMOLITION, CAP AND ABANDON REMAINING UTILITIES IN ACCORDANCE WITH SPECIFICATIONS.
 - ASPHALT OR CONCRETE PAVEMENT TO BE REMOVED.
 - SAWCUT AND REMOVE EXISTING PAVEMENT, SIDEWALK, AND CURB & GUTTER.
 - SIGN AND POST TO BE REMOVED. RELOCATE SIGN ON NEW POST AS INDICATED ON SITE STAKING PLAN.



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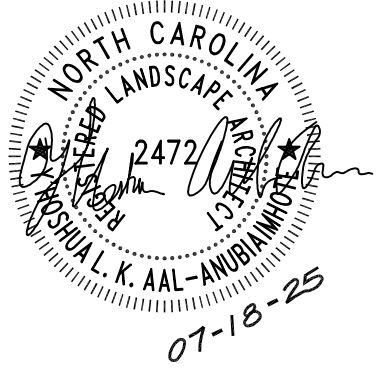
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

DATE 07-18-2025
CLH PROJECT NO 22-154

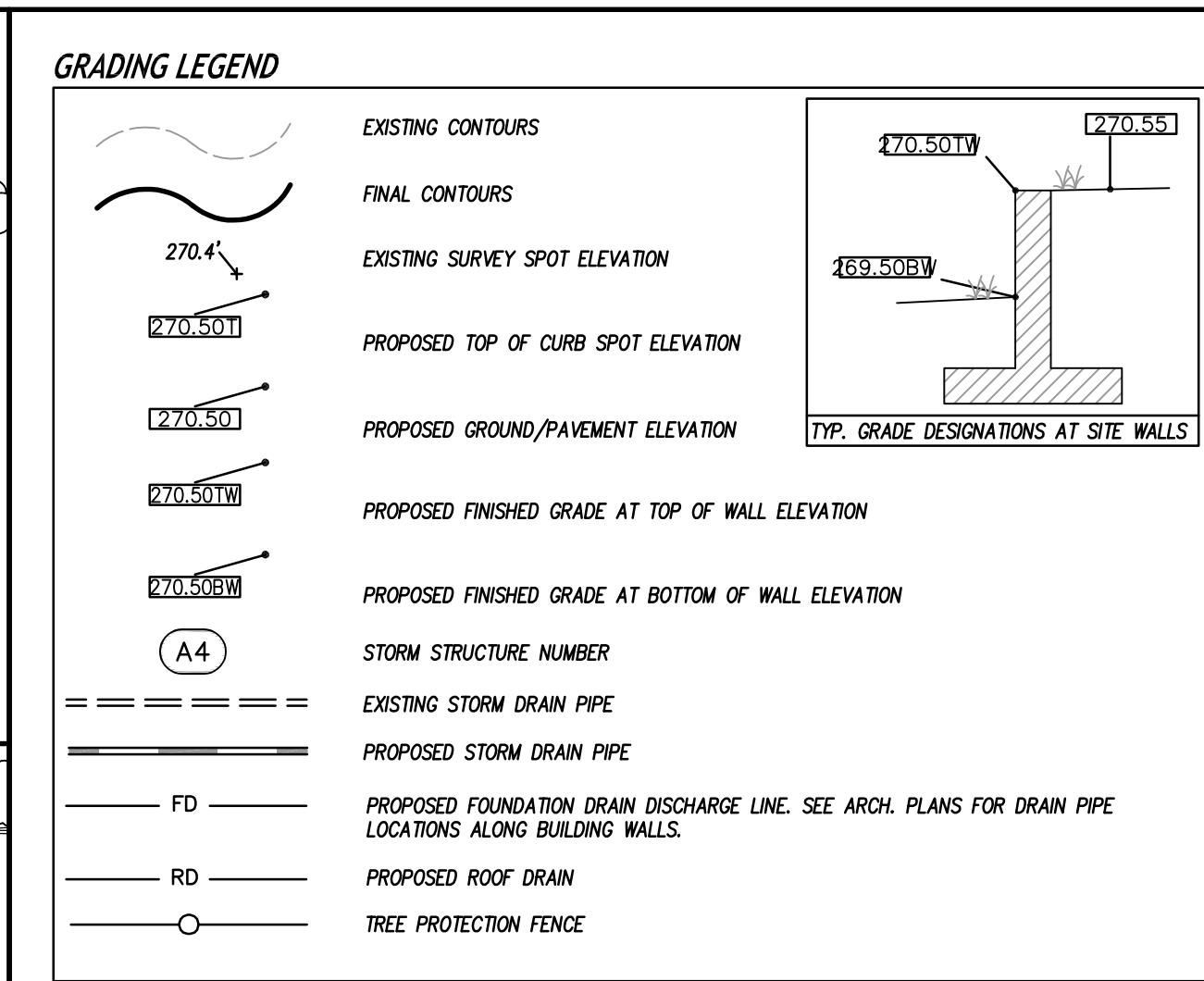
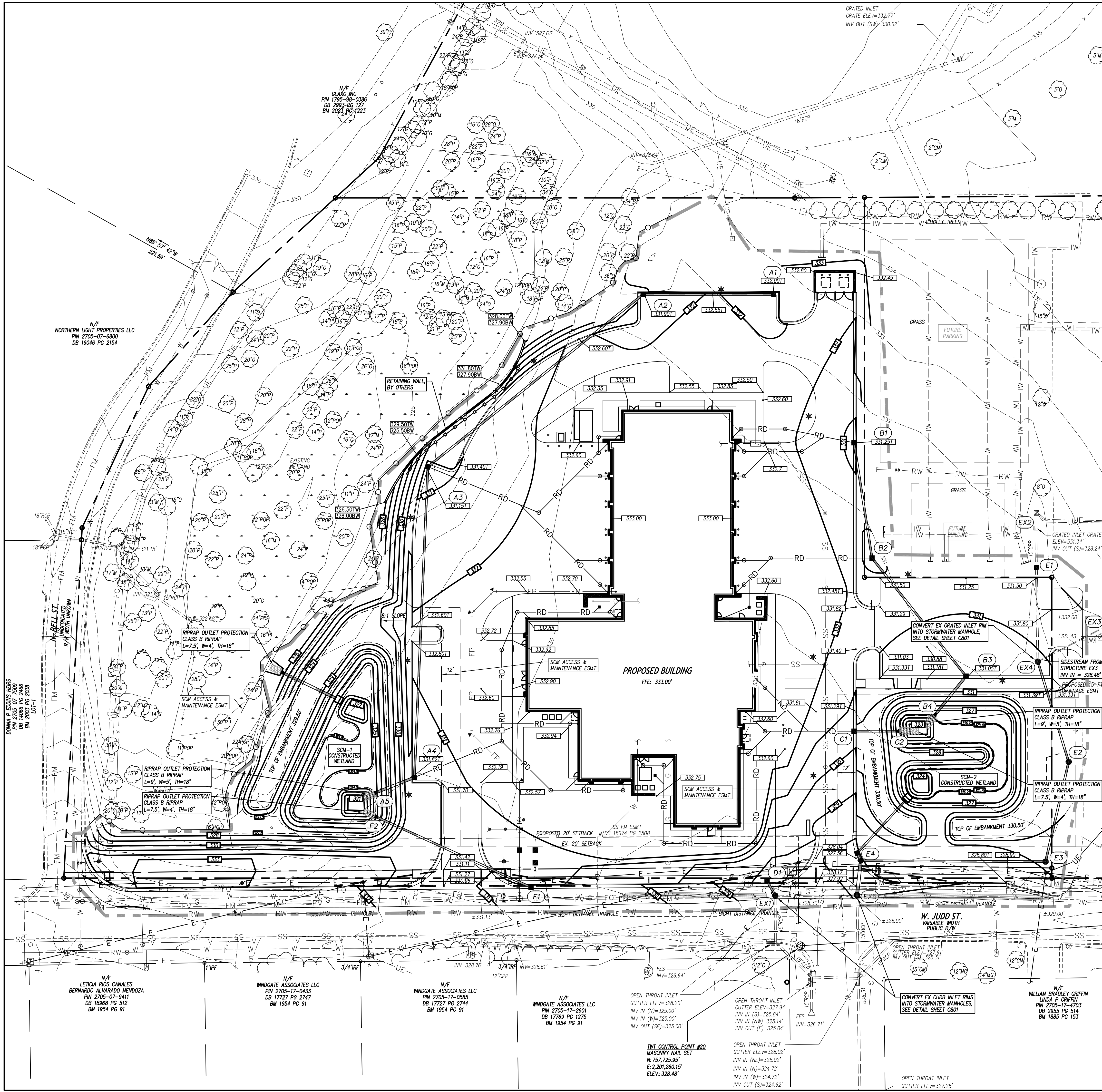
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SHEET NUMBER

C202



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWNS OF ZEBULON AND NCODOT STANDARDS AND SPECIFICATIONS.
2. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
3. TOTAL DERIVED AREA = 4.05 AC
4. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
5. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL 101-117 C702.
7. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED. UNLESS NOTED OTHERWISE.
8. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
10. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
11. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

BUILT-UPON AREA

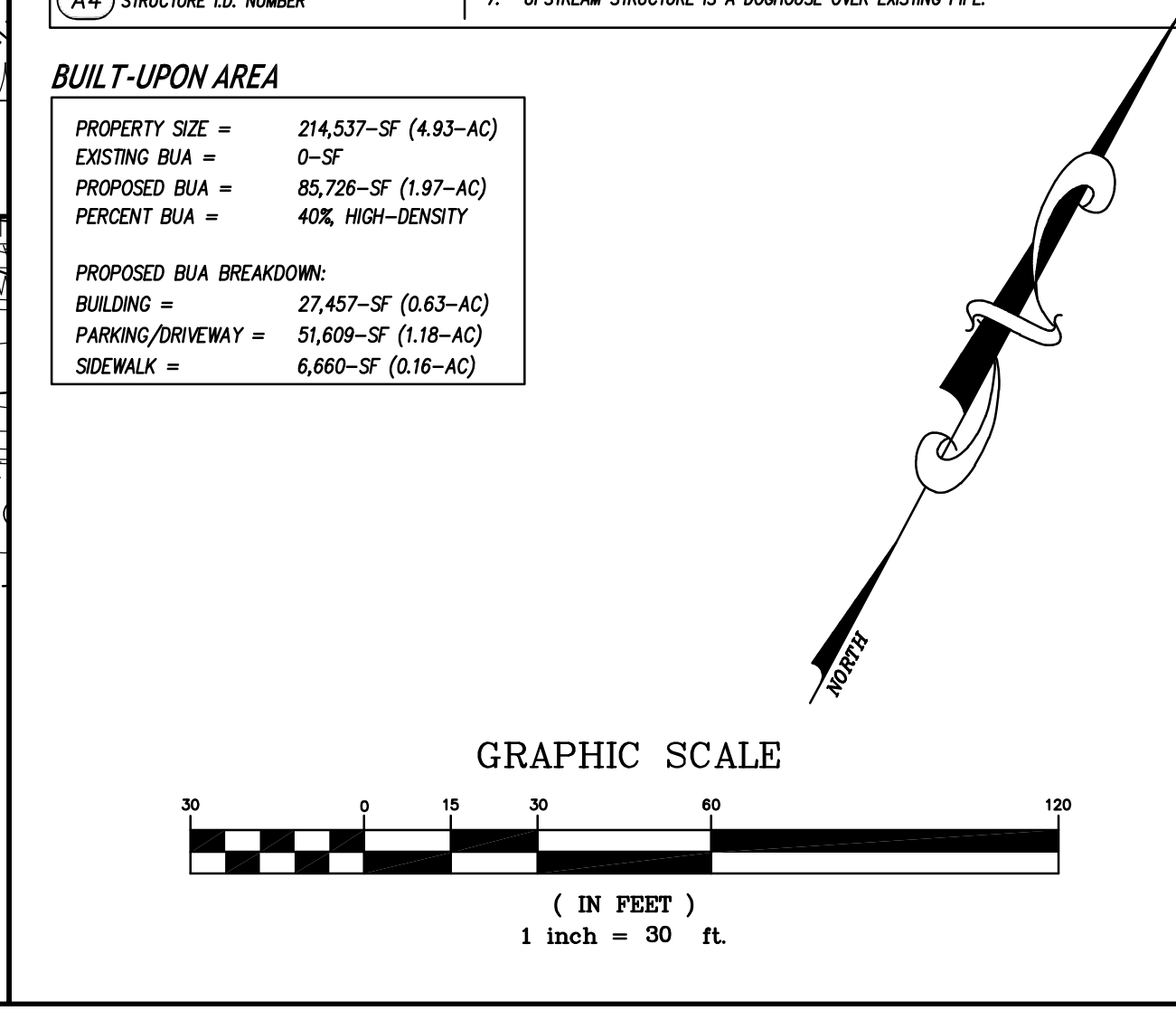
PROPERTY SIZE = 214,537-SF (4.93-AC)
EXISTING BUA = 0-SF
PROPOSED BUA = 85,726-SF (1.97-AC)
PERCENT BUA = 40%, HIGH-DENSITY

PROPOSED BUA BREAKDOWN:
BUILDING = 27,457-SF (0.63-AC)
PARKING/DRIVEWAY = 51,609-SF (1.18-AC)
SIDEWALK = 6,660-SF (0.16-AC)

LEGEND

NOTES

- TOP ELEV. IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF DRAIN INLET, SEE SHEET C801
- PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF GRATES, MANHOLES, OR TO THE END OF THE PIPES.
- ALL PIPES INLETS & OUTLETS SHALL BE RCP.
- DOWNSTREAM STRUCTURE IS A FES.
- UPSTREAM STRUCTURE IS A DOUBLE CATCH BASIN.
- PIPE SHALL BE CLASS IV RCP.
- UPSTREAM STRUCTURE IS A DOGHOUSE OVER EXISTING PIPE.



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LA: C-106, PE: C-1595



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

GRADING & DRAINAGE PLAN

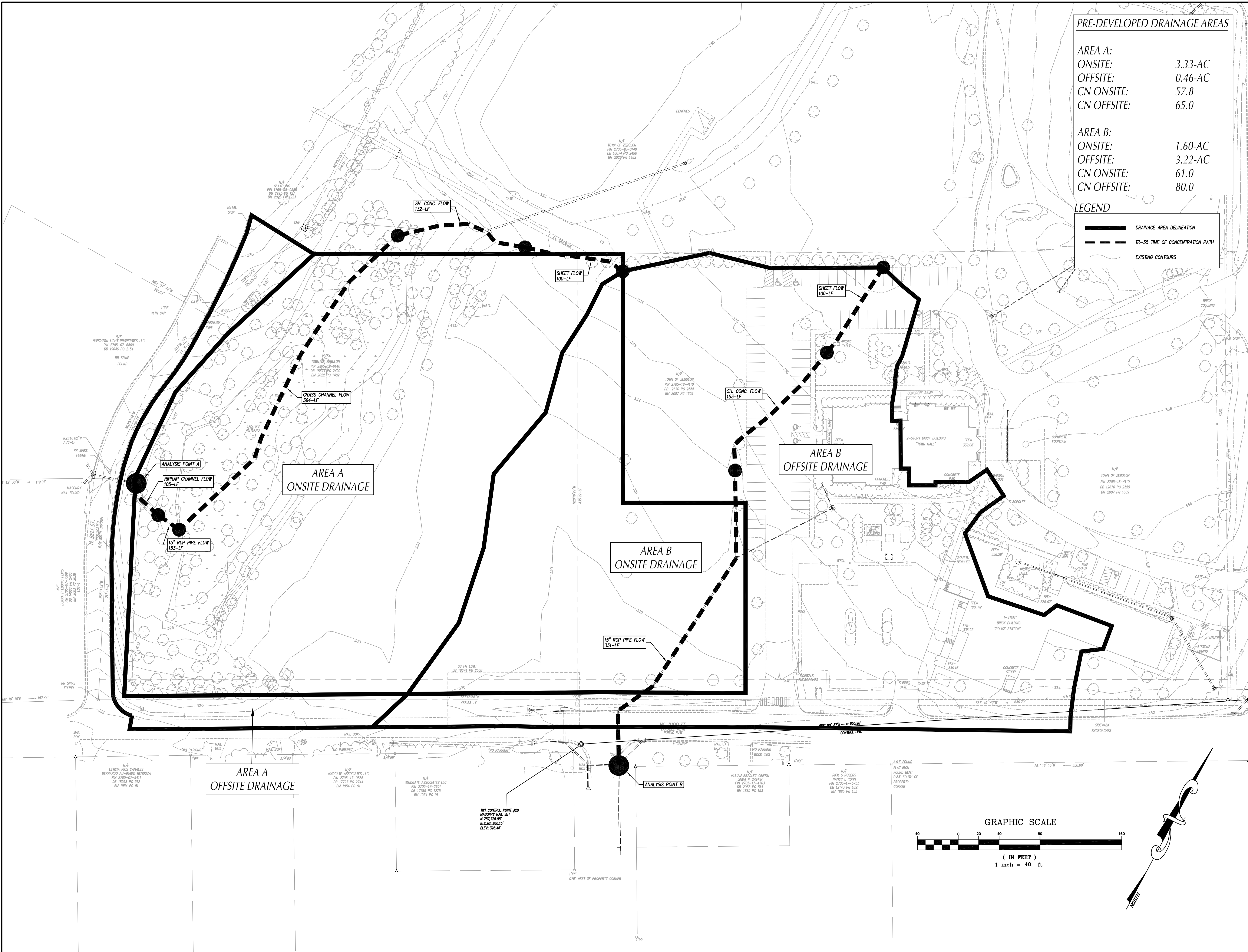
DATE 07-18-2025
CLH PROJECT NO 22-154

REVISIONS

NO	DATE	DESCRIPTION:
1	5/30/25	ADDENDUM #1

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SHEET NUMBER



PRE-DEVELOPED DRAINAGE AREAS

AREA A:
ONSITE: 3.33-AC
OFFSITE: 0.46-AC
CN ONSITE: 57.8
CN OFFSITE: 65.0

AREA B:
ONSITE: 1.60-AC
OFFSITE: 3.22-AC
CN ONSITE: 61.0
CN OFFSITE: 80.0

LEGEND

- DRAINAGE AREA DELINEATION
- - - TR-55 TIME OF CONCENTRATION PATH
- EXISTING CONTOURS



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

PRE-DEVELOPMENT
DRAINAGE AREA MAP

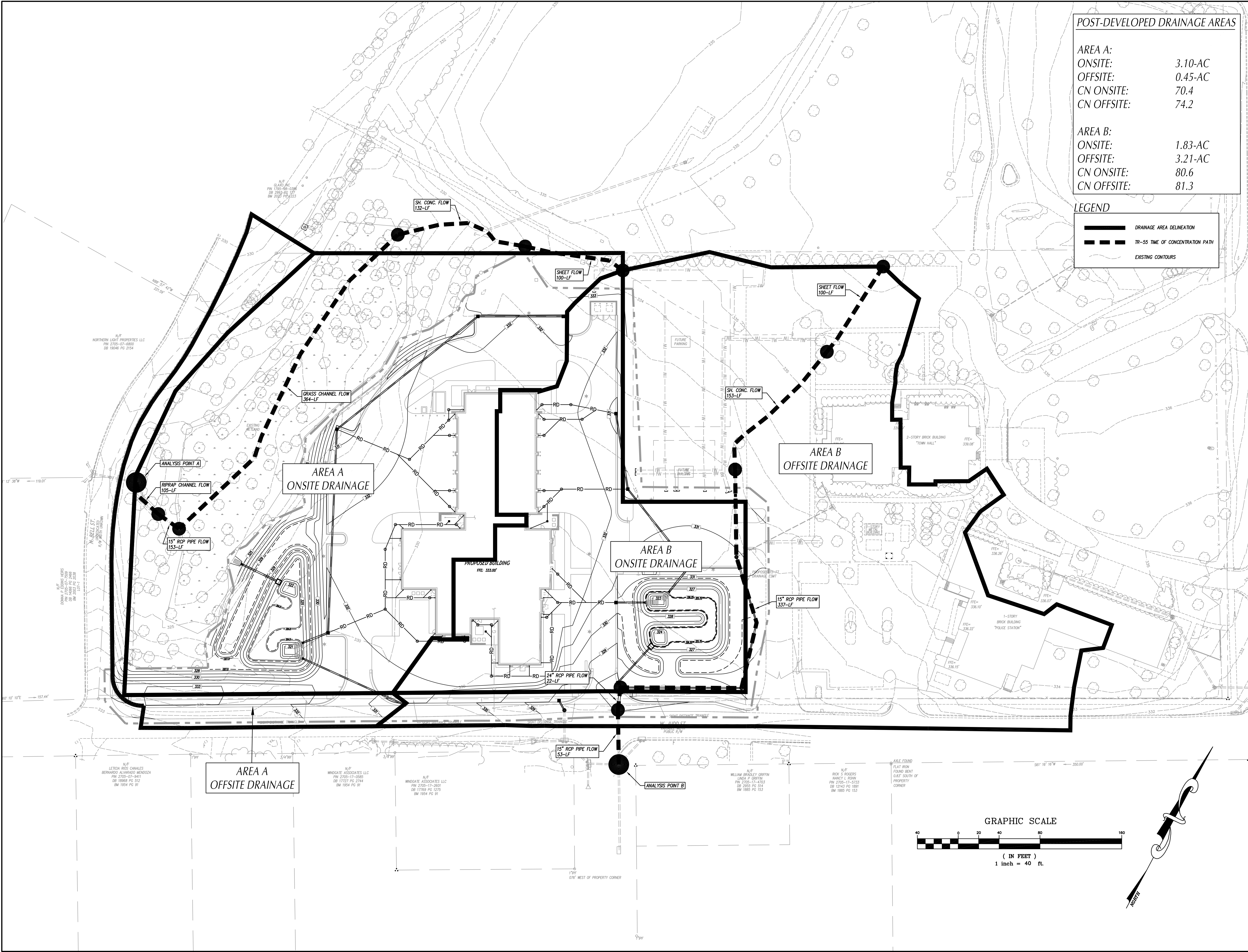
DATE 07-18-2025
CLH PROJECT NO 22-154

REVISIONS
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SHEET NUMBER

C302



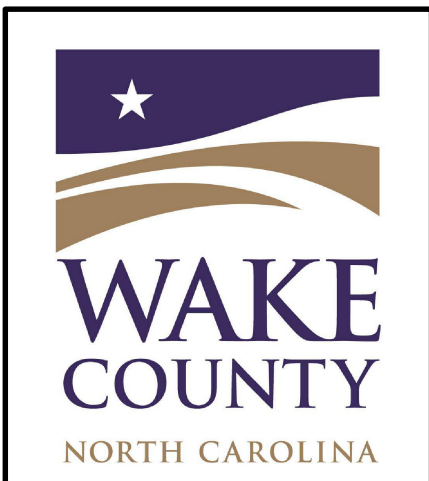
POST-DEVELOPED DRAINAGE AREAS

AREA A:
ONSITE: 3.10-AC
OFFSITE: 0.45-AC
CN ONSITE: 70.4
CN OFFSITE: 74.2

AREA B:
ONSITE: 1.83-AC
OFFSITE: 3.21-AC
CN ONSITE: 80.6
CN OFFSITE: 81.3

LEGEND

- DRAINAGE AREA DELINEATION
- - - TR-55 TIME OF CONCENTRATION PATH
- ... EXISTING CONTOURS



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

POST-DEVELOPMENT
DRAINAGE AREA MAP

DATE 07-18-2025

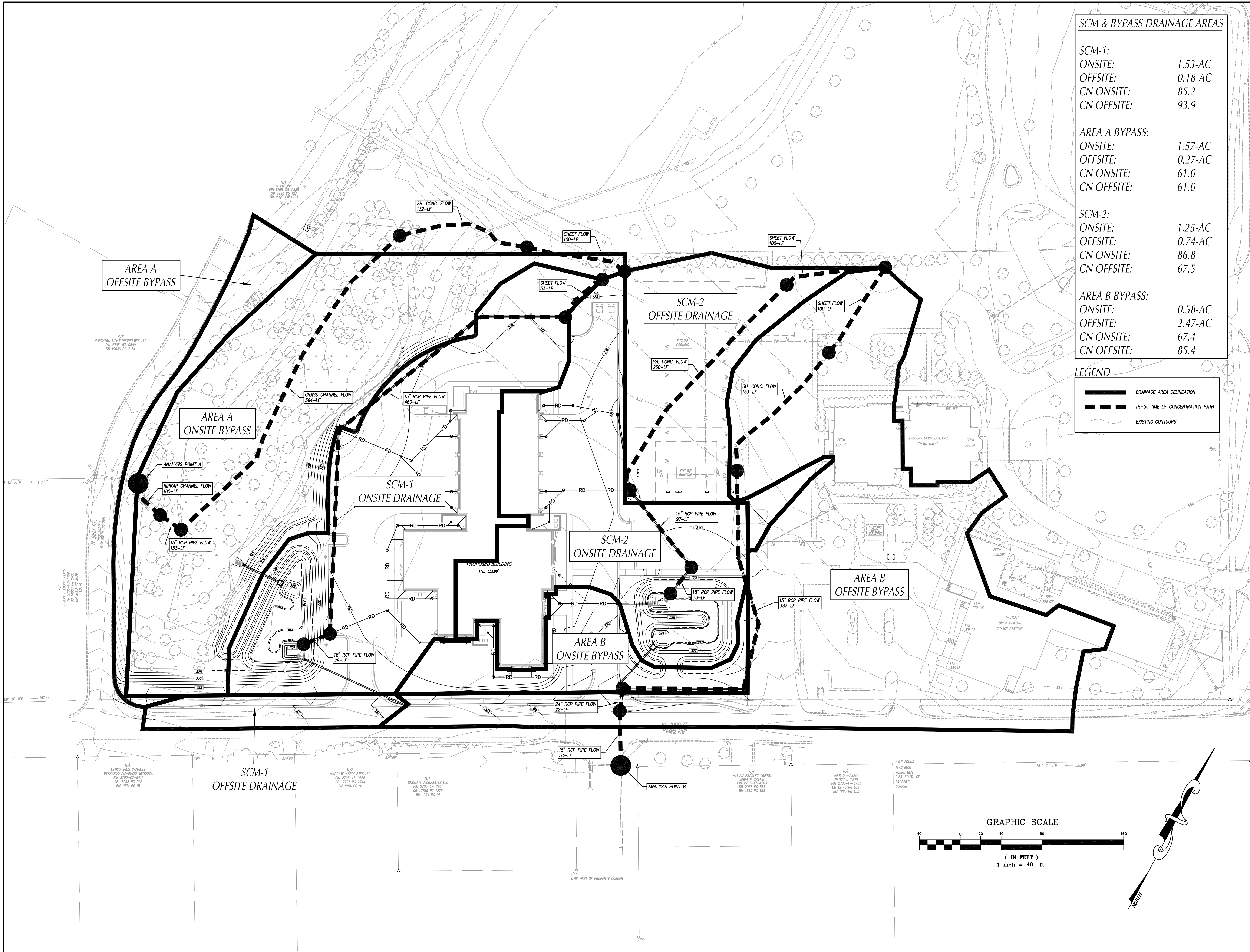
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SHEET NUMBER

C303



SCM & BYPASS DRAINAGE AREAS

SCM-1:
ONSITE: 1.53-AC
OFFSITE: 0.18-AC
CN ONSITE: 85.2
CN OFFSITE: 93.9

AREA A BYPASS:
ONSITE: 1.57-AC
OFFSITE: 0.27-AC
CN ONSITE: 61.0
CN OFFSITE: 61.0

SCM-2:
ONSITE: 1.25-AC
OFFSITE: 0.74-AC
CN ONSITE: 86.8
CN OFFSITE: 67.5

AREA B BYPASS:
ONSITE: 0.58-AC
OFFSITE: 2.47-AC
CN ONSITE: 67.4
CN OFFSITE: 85.4

LEGEND

- DRAINAGE AREA DELINEATION
- - - TR-55 TIME OF CONCENTRATION PATH
- ~ EXISTING CONTOURS



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

SCM & BYPASS
DRAINAGE AREA MAP

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
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SHEET NUMBER

C304

CONSTRUCTION SEQUENCE - INITIAL INSTALL

1. EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR. THE COC CAN BE OBTAINED BY 11. FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOT) FORM AT DEQ.NC.GOV/NCOT. PLEASE NOTE, THE E-NOT FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED.
- 1.1. PER NPDES REQUIREMENTS, A RAIN GAUGE, SELF-INSPECTIONS RECORDS, PERMIT, CERTIFICATE OF COVERAGE, AND S&E PLAN ARE REQUIRED TO BE MAINTAINED ON SITE AND ACCESSIBLE DURING INSPECTION. IT IS RECOMMENDED THAT THESE ITEMS BE PLACED IN A PERMITS BOX AT THE BEGINNING OR ENTRANCE OF PROJECT.
2. INSTALL TREE PROTECTION FENCING.
3. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE.
4. CONTACT NC DEQ LOS RALEIGH OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION AND PROVIDE NOTIFICATION OF THE PROJECT START-UP DATE. CONDUCT PRE-CONSTRUCTION CONFERENCE.
5. 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, 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.
6. SELF-INSPECTION FOR EROSION AND SEDIMENT 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. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL E&S MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN.
7. CONTACT THE DEMUR RALEIGH REGIONAL OFFICE AT 919-792-4200 AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
8. INSTALL TEMPORARY CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, REINFORCED OUTLET PROTECTION, J-HOOK OUTLET PROTECTION, AND COMPOST SOCK FENCES.
9. INSTALL SILT BAG INLET PROTECTION ON EXISTING STORMWATER STRUCTURES AS SHOWN. SILT BAGS ARE TO BE CONTINUOUSLY MONITORED DURING OPERATION.
10. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
- 10.1. 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.
- ** STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS 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 MET.
11. INSTALL TEMPORARY SEDIMENT SKIMMER BASIN "TSSB-1" BARREL PIPE AND 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 BAFFLES. ALL EMBANKMENT AND SLOPED SURFACES OF THE TEMPORARY BASIN SHALL BE SEEDED AND MULCHED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
- 11.1. INSTALL TEMPORARY DIVERSION DITCH "TDD-1". CHANNELS SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDED, 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.
- 11.2. INSTALL TEMPORARY SLOPE DRAIN "TSD-1".
12. INSTALL STORM INLETS EX-4, EX-3, EX-2, AND EX-1. INSTALL INLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. INSTALL STORM PIPES EX-4, EX-2, EX-3, EX-4, AND EX-5. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
13. INSTALL TEMPORARY SEDIMENT SKIMMER BASIN "TSSB-2" BARREL PIPE AND 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 BAFFLES. ALL EMBANKMENT AND SLOPED SURFACES OF THE TEMPORARY BASIN SHALL BE SEEDED AND MULCHED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
- 13.1. INSTALL TEMPORARY DIVERSION DITCH "TDD-1". CHANNELS SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDED, 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.
- 13.2. INSTALL TEMPORARY SLOPE DRAIN "TSD-2".
14. CALL FOR INSPECTION OF INSTALLED DEVICES.
15. ESTABLISH STAGING AREA IN LOCATION SHOWN ON PLAN OR AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC.

REFER TO SHEET C402 FOR CONTINUATION OF CONSTRUCTION SEQUENCE.

ANY OFF-SITE BORROW AND WASTE REQUIRED FOR THIS PROJECT MUST COME FROM A SITE WITH AN APPROVED EROSION CONTROL PLAN, REGULATED UNDER THE MINING ACT OF 1971, OR REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. TRASH/DEBRIS FROM DEMOLITION ACTIVITIES OR GENERATED BY ON-SITE ACTIVITIES MUST BE DISPOSED OF AT A FACILITY REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT OR PER THE RULES AND REGULATIONS OF THE DIVISION OF SOLID WASTE MANAGEMENT OR DIVISION OF WATER RESOURCES.

SEED, MULCH, AND TACK ANY BARE AREAS BETWEEN THE PERIMETER MEASURES AND THE DIVERSIONS AND/OR BASINS IMMEDIATELY AFTER INSTALLATION.

RIPRAP OUTLET PROTECTION CLASS B RIPRAP L=7.5', W=4', TH=18"

RIPRAP OUTLET PROTECTION CLASS B RIPRAP L=8', W=4', TH=18"

PLACE PAM FLOCCULANT TURBIDITY LOGS

PLACE PAM FLOCCULANT TURBIDITY LOGS

RAIN GAUGE & RECORD BOX LOCATION

TEMPORARY CONSTRUCTION ENTRANCE

TEMP. STAGING AREA

TWY CONTROL POINT #20 MASONRY NAIL SET N: 757,725.95' E: 2,201,260.15' ELEV: 328.48'

OPEN THROAT INLET OUTLET ELEV=328.02' INV IN (N)=325.02' INV IN (W)=324.72' INV OUT (S)=326.62'

OPEN THROAT INLET OUTLET ELEV=327.97' INV IN (W)=325.57' INV OUT (S)=325.37'

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OPEN THROAT INLET OUTLET ELEV=327.94' INV IN (S)=325.84' INV IN (NW)=325.14' INV OUT (E)=325.04'

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CONSTRUCTION SEQUENCE

REFER TO SHEET C401 FOR CONSTRUCTION SEQUENCE - INITIAL INSTALL

** SELF-INSPECTION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PERFORMED AT LEAST EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1" INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. **

** STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS 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 MET. **

1. CLEAR AND GRUB AREAS ONLY AS REQUIRED. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN CONSTRUCTION LIMITS. INSTALL AND MAINTAIN ALL SILT FENCE/TEMPORARY COMPOST SOCK AROUND TEMPORARY STOCKPILES. ANY STOCKPILE MUST BE STABILIZED IF INACTIVE FOR MORE THAN SEVEN (7) CALENDAR DAYS.
2. BEGIN ROUGH GRADING OPERATIONS.
3. AT THE END OF EACH DAY, INSTALL AND ADJUST TEMPORARY DIVERSION DITCHES AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
4. INSTALL STORM DRAINAGE SYSTEMS AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
5. REGRAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE CHANNELS ONLY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
6. 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.
7. INSTALL TEMPORARY SILT FENCE AT TOP OF SHOULDER/BERM OF PAVEMENT SAG LOCATIONS.
8. INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUN-OFF INTO INLETS.

9. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL ALL UPGRADED DRAINAGE AREAS HAVE BEEN STABILIZED WITH THE ESTABLISHMENT OF PERMANENT GROUND COVER.
- 9.1. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT SAGS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
- CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, CONVERT TEMPORARY SEDIMENT SKIMMER BASINS "TSSB-1" AND "TSSB-2" INTO PERMANENT STORMWATER WET POND. CLOSE DRAIN VALVES, REMOVE TEMPORARY SKIMMERS, Baffles AND OTHER TEMPORARY COMPONENTS, EXCAVATE SEDIMENT AND GRADE WETLANDS TO FINAL CONTOURS. USE DEWATERING SEDIMENT SILT BAGS AS NECESSARY. SEE DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION SEQUENCING, SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
11. REMOVE TEMPORARY CONSTRUCTION ENTRANCE, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL, STOCKPILES, SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
12. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE REMAINING TEMPORARY EROSION CONTROL MEASURES, SEED AND MULCH ANY REMAINING DISTURBED AREAS.
13. SEE SPECIFICATIONS AND DETAIL SHEETS C704 & C705 FOR AS-BUILT CERTIFICATION REQUIREMENTS PRIOR TO CERTIFICATE OF OCCUPANCY (C.O.).
14. REMAINING MEASURES MUST BE REMOVED AND RESULTING BARE AREAS STABILIZED BEFORE PERMIT CAN BE CLOSED.
15. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMUL TO CLOSE OUT THE EDCS PLAN. AFTER DEMUL INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NCGOI TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOTI). A \$120 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOTI HAS BEEN FILLED OUT.

N/F
NORTHERN LIGHT PROPERTIES LLC
PIN 2705-07-6800
DB 19046 PG 2154

DONALD B. GRISWOLD
PIN 2705-07-2509
DB 14066 PG 2466
BM 2003 PG 2038
CUT-1

N/F
LETICIA RIOS CANALES
BERNARDO ALVARADO MENDOZA
PIN 2705-07-9411
DB 18968 PG 512
BM 1954 PG 91

N/F
WINDGATE ASSOCIATES LLC
PIN 2705-17-0433
DB 17727 PG 2747
BM 1954 PG 91

N/F
WINDGATE ASSOCIATES LLC
PIN 2705-17-0585
DB 17727 PG 2744
BM 1954 PG 91

N/F
WINDGATE ASSOCIATES LLC
PIN 2705-17-2601
DB 17769 PG 1275
BM 1954 PG 91

TWY CONTROL POINT #20
MASONRY NAIL SET
N: 757,725.95'
E: 2,201,260.15'
ELEV.: 328.48'

OPEN THROAT INLET
GUTTER ELEV.=328.02'
INV IN (N)=325.00'
INV IN (S)=325.00'
INV IN (NW)=325.14'
INV OUT (E)=325.00'

OPEN THROAT INLET
GUTTER ELEV.=327.28'

LEGEND

- | | | |
|--|------|--|
| GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C701. | TSSB | TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEETS C704 & C705. |
| TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET C702. | --- | TEMP. Baffles, SEE DETAIL SHEET C702. |
| TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C702. | --- | EXISTING CONTOUR |
| TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C702. | --- | TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.) |
| TEMP. SILT FENCE, SEE DETAIL SHEET C701. | --- | CHANNEL LINING, SEE DETAIL SHEET C702. |
| TEMP. REINFORCED SILT FENCE, SEE DETAIL SHEET C701. | --- | TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET C702. |
| TEMP. J-HOOK PROTECTION, SEE DETAIL SHEET C702. | --- | TEMP. PROTECTION FENCE, SEE DETAIL SHEET C701. |
| PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C703. | --- | TEMP. COMPOST SOCK, SEE DETAIL SHEET C703. |
| TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C703. | --- | TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET C703. |
| TEMP. PLASTIC LINING, SEE TEMP. BASIN Baffles DETAIL SHEET C702. | --- | TEMP. SLOPE DRAIN, SEE DETAIL SHEET C703. |
| TEMP. EXCAVATED INLET, SEE DETAIL SHEET C703. | --- | PROPOSED STORM SEWER PIPES |
| | --- | EXISTING STORM SEWER PIPES |
| | --- | LIMITS OF DISTURBANCE |

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON, NCDOE, AND NCDOOT 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. 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 ARCHITECT.
4. TOTAL DISTURBED AREA: 4.05
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
6. 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.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS 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.
9. THE TREE PROTECTION FENCE 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.
10. 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.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
16. 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.
17. CONTRACTOR SHALL UTILIZE FLOW 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 C701) FOLLOWING COMPLETION OF ANY PHASE OF GRADING. SEE SHEET C703 FOR TEMPORARY SEEDING.
2. FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. SEE SHEET C703 FOR PERMANENT SEEDING.
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 C701 FOR SELF-INSPECTION REQUIREMENTS.

THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDEMUL'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ON SITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

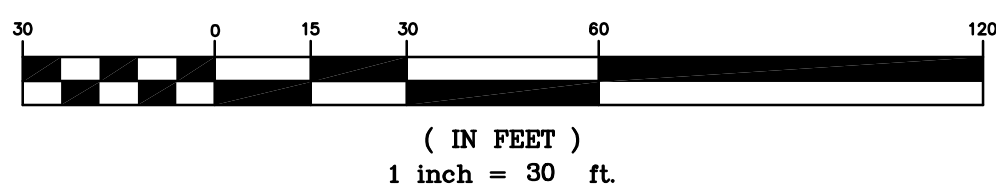
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b)).

THE REQUIREMENTS ON SHEET C701 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.

INSTALL TEMPORARY EXCELISOR 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 312300 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEETS C401 & C402 FOR EROSION CONTROL CONSTRUCTION SEQUENCE.

GRAPHIC SCALE



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environmentsforlife

architecture planning interiors

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Fax: (919)319-7516
LA: C-106, PE: C-1595



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

EROSION CONTROL
PLAN

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
1 NO DATE DESCRIPTION:
5/30/25 ADDENDUM #1

THIS DRAWING IS THE PROPERTY OF CLH DESIGN, PA. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF CLH DESIGN, PA.

SHEET NUMBER

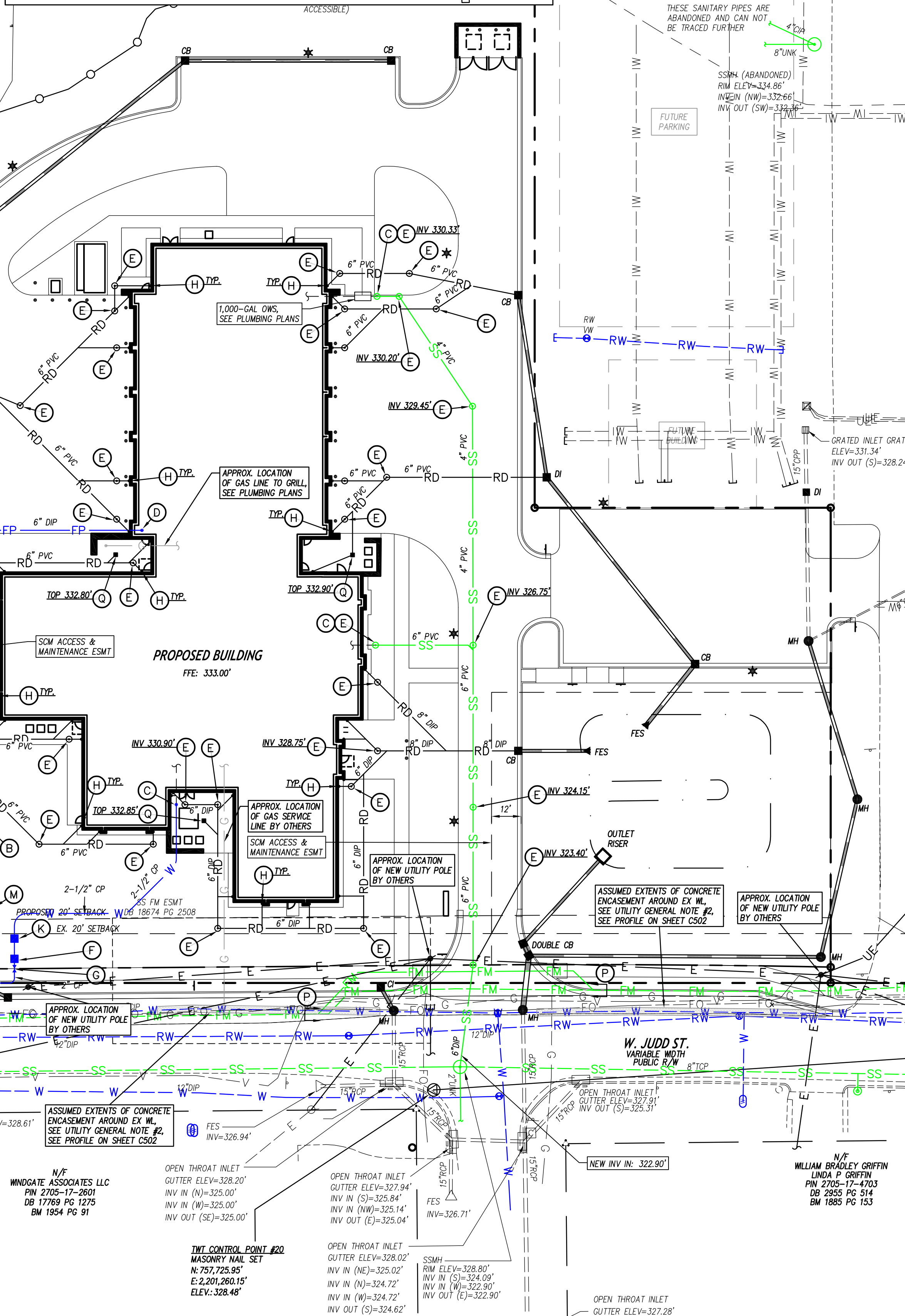
C402

STANDARD RALEIGH UTILITY NOTES

- ALL MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS, & SPECIFICATIONS (REFERENCE: CORPUS HANDBOOK, CURRENT EDITION)
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUS DETAILS W-41 & S-49).
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- SEWER BYPASS PUMPING - A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUS HANDBOOK PROCEDURE.
- INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
- PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
- ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
- INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI. BACKFLOW VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWM, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UO AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
- THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
- THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A - GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
- THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
- NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT, ANY CITY REIMBURSEMENT GREATER THAN \$250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
- PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".

UTILITY GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 3'-FT. WHERE WORK IS PERFORMED OVER EXISTING WATERMANS WITH LESS THAN 3'-FT OF COVER, ENCASE THE WATERMAIN IN 1'-FT MIN. OF CONCRETE ON ALL SIDES.
- 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 ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
- ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1.04% 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.



UTILITY LEGEND

	EXISTING	PROPOSED
SEWER FORCE MAIN	---	---
ELECTRICAL (OVERHEAD)	---	---
ELECTRICAL (UNDERGROUND)	---	---
RECLAIMED WATER	---	---
GAS	---	---
SANITARY SEWER	---	---
TELEPHONE (OVERHEAD)	---	---
TELEPHONE (UNDERGROUND)	---	---
WATER	---	---
ROOF DRAIN	---	---
FIRE PROTECTION	---	---
STORM DRAIN	---	---
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS	---	---
LIGHT POLE	---	---
UTILITY POLE	---	---
MANHOLE	---	---
CLEAN OUT	---	---
DROP INLET, CATCH BASIN	---	---
FIRE HYDRANT	---	---
WATER VALVE	---	---
POST INDICATOR VALVE (PIV)	---	---
FIRE DEPARTMENT CONNECTION (FDC)	---	---
THRUST BLOCKING	---	---
SANITARY SEWER STRUCTURE IDENTIFICATION	---	---

KEY NOTES

- FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C802.
- THRUST BLOCKING, TYP, SEE DETAIL SHEET C802.
- EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- EXTEND WATER LINE TO 12'-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C803. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- CLEANOUT, SEE DETAIL SHEET C803.
- 2-IN DOMESTIC WATER METER (105-GPM) WITHIN VAULT, SEE DETAIL SHEET C802.
- GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C802.
- DOWNSPOUT CONNECTION, SEE DETAIL SHEET C803.
- 6"x6" TAPPING SLEEVE, VALVE, AND BLOCKING ASSEMBLY SEE SPECIFICATIONS.
- FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C803.
- 2-IN ZURN-WILKINS MODEL 975XL2 REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C802. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6-IN ZURN-WILKINS MODEL 475 REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C802. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6"x6" TEE & THRUST BLOCKING.
- SERVICE SADDLE & CORPORATION STOP, SEE SPECIFICATIONS.
- POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C803 AND SPECIFICATIONS. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- EX 4" DIP FORCE MAIN TO BE REPLACED WITH NEW 4" DIP FORCE MAIN (4115-LF) INSTALLED AT GREATER DEPTH TO PASS AT LEAST 18" BELOW NEW STORM PIPES. COORDINATE BRIEF SHUTDOWN OF EX FORCE MAIN FOR CONNECTIONS. REMOVE EX FORCE MAIN.
- IN-LINE DRAIN, SEE DETAIL SHEET C803.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____

Raleigh Water Review Officer _____

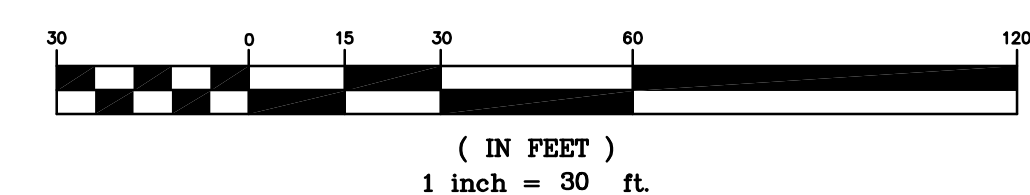
ATTENTION CONTRACTORS

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 reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

GRAPHIC SCALE



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

UTILITY PLAN

DATE 07-18-2025

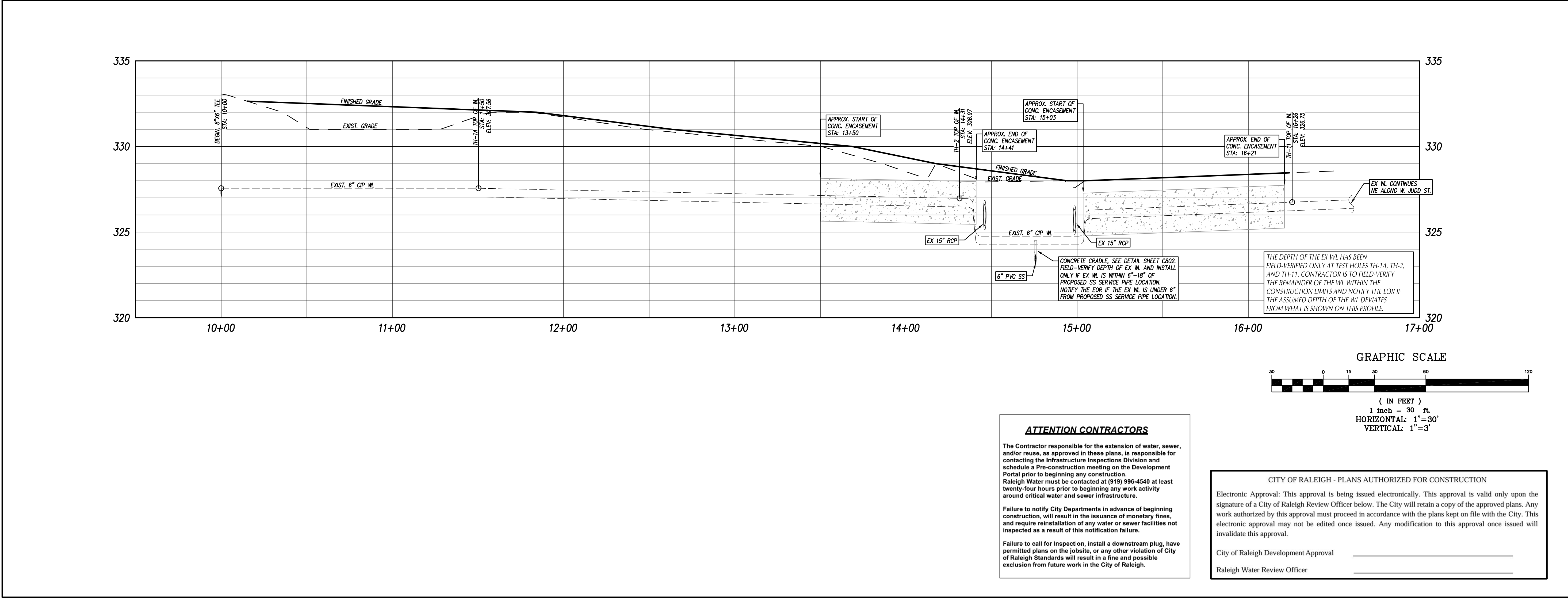
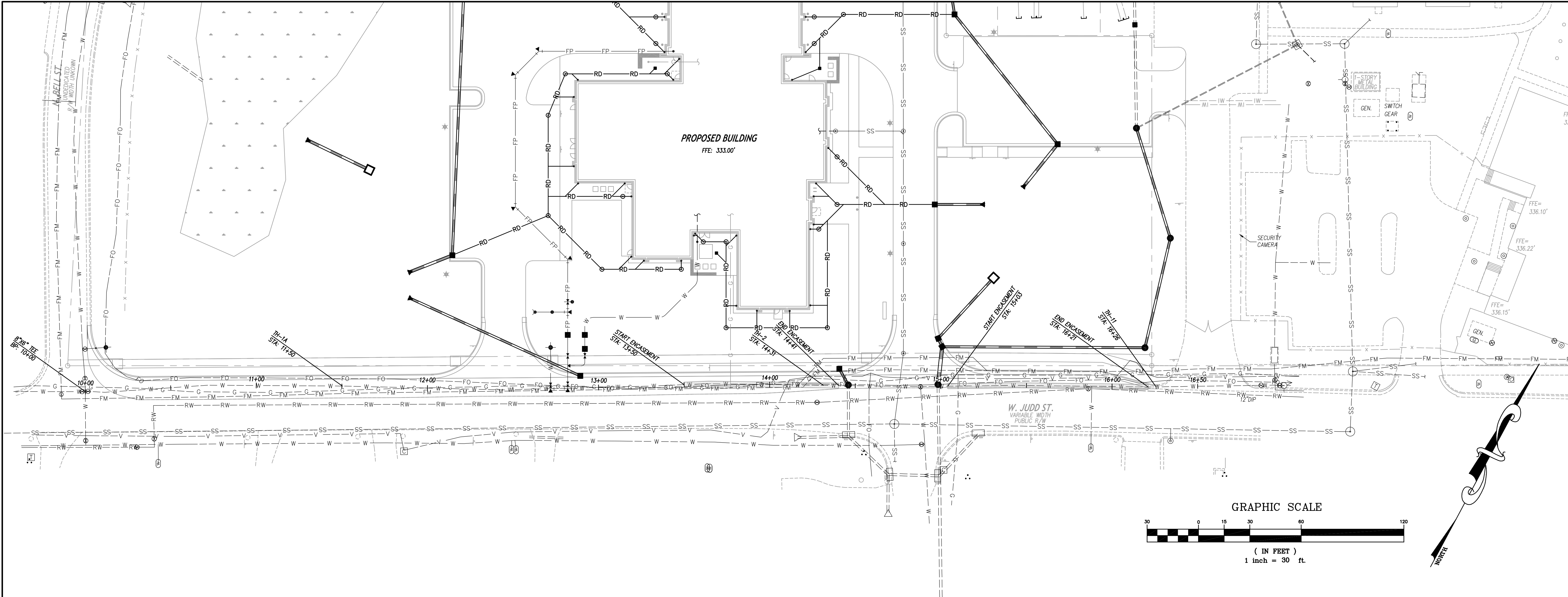
CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:
1 5/30/25 ADDENDUM #1

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SHEET NUMBER

C501



adwarchitects
environmentsforlife

architecture planning interiors

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SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P 704 379 1919
F 704 379 1920
www.adwarchitects.com

CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919)319-6716
Fax: (919)319-7516
LA: C-106, PE: C-1595



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

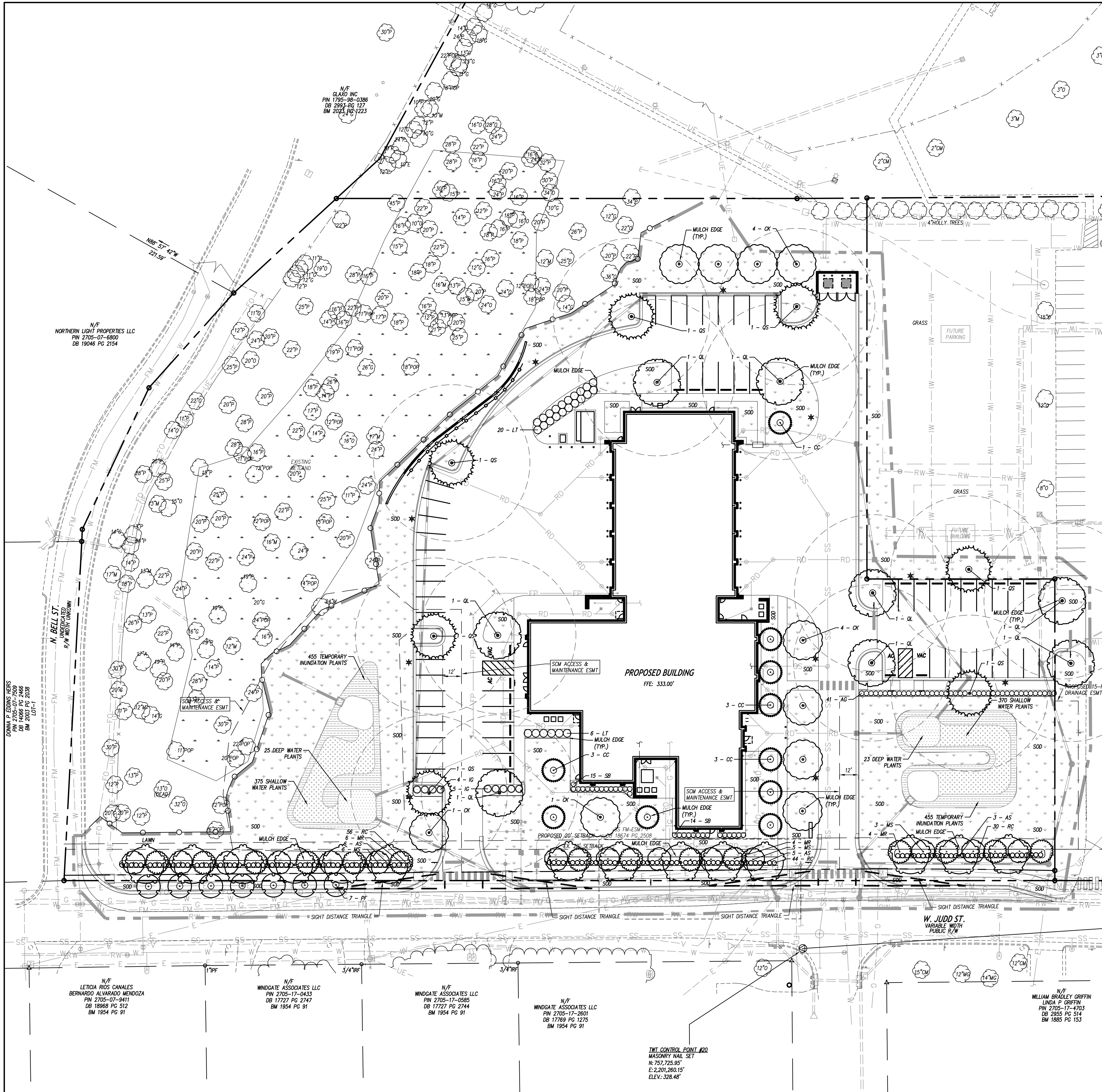
WATERLINE PLAN & PROFILE

DATE	07-18-2025	
CLH PROJECT NO	22-154	
REVISIONS		
NO	DATE	DESCRIPTION:
1	5/30/25	ADDENDUM #1

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SHEET NUMBER

C502



SEE SHEET C-903 FOR LANDSCAPE GENERAL NOTES.

PLANT SCHEDULE				
CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
TREES				
AS	14	ACER SACCHARUM SUGAR MAPLE	B&B, STRAIGHT TRUNK, FULL CROWN	2.5" MIN. 12' HT. MIN.
CC	10	CERIS CANADENSIS	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN. 6' HT. MIN.
CK	10	CLADRASTIS KENTUCKEA AMERICAN YEW	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN. 8' HT. MIN.
MR	14	MAGNOLIA STELLATA ROYAL STAR	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN. 6' HT. MIN.
MS	14	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN. 6' HT. MIN.
PF	7	PRUNUS X 'FIRST LADY' FIRST LADY FLOWERING CHERRY	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN. 6' HT. MIN.
QL	8	QUERCUS LYRATA OVERCUP OAK	B&B, STRAIGHT TRUNK, FULL CROWN	2.5" MIN. 12' HT. MIN.
QS	7	QUERCUS SHUMARDII SHUMARD OAK	B&B, STRAIGHT TRUNK, FULL CROWN	2.5" MIN. 12' HT. MIN.
SHRUBS				
AG	41	ABELIA X GRANDIFLORA GLOSSY ABELIA	CONT.	18"-24" HT.
IG	9	ILEX GLABRA INKBERY HOLLY	CONT.	18"-24" HT.
LT	26	LIGUSTRUM JAPONICUM TEXANUM TEXAS JAPANESE PRIVET	CONT.	36" HT. MIN.
RC	130	RHODODENDRON CATAMBENSE CATAMBA RHODODENDRON	CONT.	18"-24" HT.
SB	29	SPIRAEA BETULIFOLIA BIRCHLEAF SPIREA	CONT.	18"-24" HT.
SEE DETAIL SHEET C903				

DETENTION WETLAND PLANTING SCHEDULE

TEMPORARY INUNDATION ZONE PLANT LIST		
149	CAREX STRICTA - TUSSOCK SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.
149	ASCLEPIAS INCARNATA - SWAMP MILKWEED	
149	IRIS VIRGINICA - BLUE FLAG IRIS	
149	LOBELIA CARDINALIS - CARDINAL FLOWER	
149	LIATRIS SPICATA - BLAZING STAR	

SHALLOW WATER PLANT LIST

182	PELTANDRA VIRGINICA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.
182	PONTEDERIA CORDATA - PICKEREL WEED	
182	ACORUS SUBCORDATUM - SWEETFLAG	
182	SAURURUS CERNUUS - LIZARD'S TAIL	
182	JUNCUS EFFUSUS - SOFT RUSH	

DEEP POOL AND MICRO POOL PLANT LIST

48	NYMPHAEA ODORATA - WATERLILY	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.
----	------------------------------	---

SCM-1 PLANT CALC.

SHALLOW WATER ZONE SQUARE FOOTAGE: 1,490 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,490/200)x50 = 373 PLANTS
PLANTINGS PROVIDED: 375 PLANTS

TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 1,814 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,814/200)x50 = 454 PLANTS
PLANTINGS PROVIDED: 455 PLANTS

DEEP POOL AND MICRO POOL PLANT LIST: 500 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (500/100)x50 = 25 PLANTS
PLANTINGS PROVIDED: 25 PLANTS

SCM-2 PLANT CALC.

SHALLOW WATER ZONE SQUARE FOOTAGE: 1,462 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,462/200)x50 = 366 PLANTS
PLANTINGS PROVIDED: 370 PLANTS

TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 1,815 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,815/200)x50 = 454 PLANTS
PLANTINGS PROVIDED: 455 PLANTS

DEEP POOL AND MICRO POOL PLANT LIST: 444 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (444/100)x50 = 23 PLANTS
PLANTINGS PROVIDED: 23 PLANTS

NOTES

- WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
- LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
- PLACE PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 40 PLANTS OR MORE.
- SOODED AREA SHALL NOT BE MOWED AT SIDE SLOPES.

WETLAND SOIL MIX

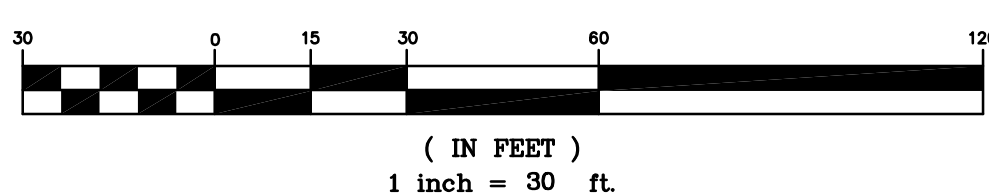
ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

- THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
- SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
- A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
- THE PH SHALL BE BETWEEN 5.5 AND 7.0.

LANDSCAPE CALCULATION

PARKING LOT LANDSCAPING (64 SPACES)
• ONE CANOPY TREE FOR EVERY 12 OFF-STREET PARKING SPACES PROVIDED. (6 TREES)
• PROVIDED: 15 TREES
• PERIMETER PLANTINGS REQUIRED - EVERGREEN SHRUBS 3" ON CENTER AND 36" MIN HEIGHT.
• PROVIDED: 50 SHRUBS
FOUNDATION PLANTINGS:
• EVERGREEN SHRUBS OR DECORATIVE GRASSES WITH A MINIMUM HEIGHT OF 18 INCHES SHALL BE LOCATED WITHIN 10 FEET OF ANY BUILDING FOUNDATION WALL VISIBLE FROM A PUBLIC STREET EXCLUDING ALLEYS.
• PROVIDED: 35 SHRUBS
• ONE CANOPY TREE FOR EVERY 2,000 SQUARE FEET OF LOT AREA FOR THE FIRST 20,000 SQUARE FEET OF A LOT.
• PROVIDED: 10 TREES
PERIMETER BUFFERS:
• *NO REQUIREMENT EXEMPTION BETWEEN LOTS WITHIN THE DEVELOPMENT.
• *NO DEVELOPMENT EXISTING WETLAND/VEGETATION.
WEST JUDG STREET - STREETSCAPE BUFFERS:
MINIMUM WIDTH: 15 FEET
• *NOT BE LOCATED WITHIN SIGHT DISTANCE TRIANGLES WHERE FIRE TRUCK EXT.
• *NOT BE LOCATED WITHIN UTILITY EASEMENT.
TYPE C SEMI-OPAQUE BUFFER:
• CANOPY TREES - 3 PER 100 LINEAR FEET. 33" ON-CENTER.
• PROVIDED: 6 TREES
• UNDERSTORY TREES - 6 PER 100 LINEAR FEET. 75% EVERGREEN
• PROVIDED: 12 TREES
• SHRUBS - 25 PER 100 LINEAR FEET, SPACED 3' MAX.
• PROVIDED: 56 SHRUBS
STREET TREES (360 FEET)
• *NOT BE LOCATED WITHIN SIGHT DISTANCE TRIANGLES AS FIRE TRUCK EXT.
• *WITHIN OVERHEAD POWER LINES
• UNDERSTORY TREES SHALL BE PLANTED 20 TO 25 FEET ON-CENTER.
• PROVIDED: 10 TREES
OPEN SPACE SET-BACKS:
8% OF TOTAL SITE (5.18 AC)
REQUIRED: 8% x 5.18 = 0.41 AC (18,042 SF)
PROVIDED: EXISTING WETLAND AREA 0.83 AC (36,292 SF)

GRAPHIC SCALE



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

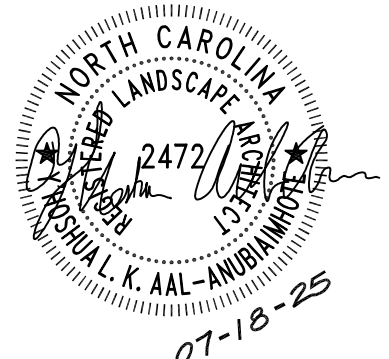
LANDSCAPE PLAN

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:
1 5/30/25 ADDENDUM #1

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SHEET NUMBER

C601

**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 un-attended days (i.e. 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-measuring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	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, indication of visible sediment leaving the site. 5. 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.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

**PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

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

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

SECTION B: RECORDKEEPING

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

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S 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&S plan.	Initial and date a copy of the approved E&S 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&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

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

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

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

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

SECTION C: REPORTING

1. Occurrences that Must be Reported

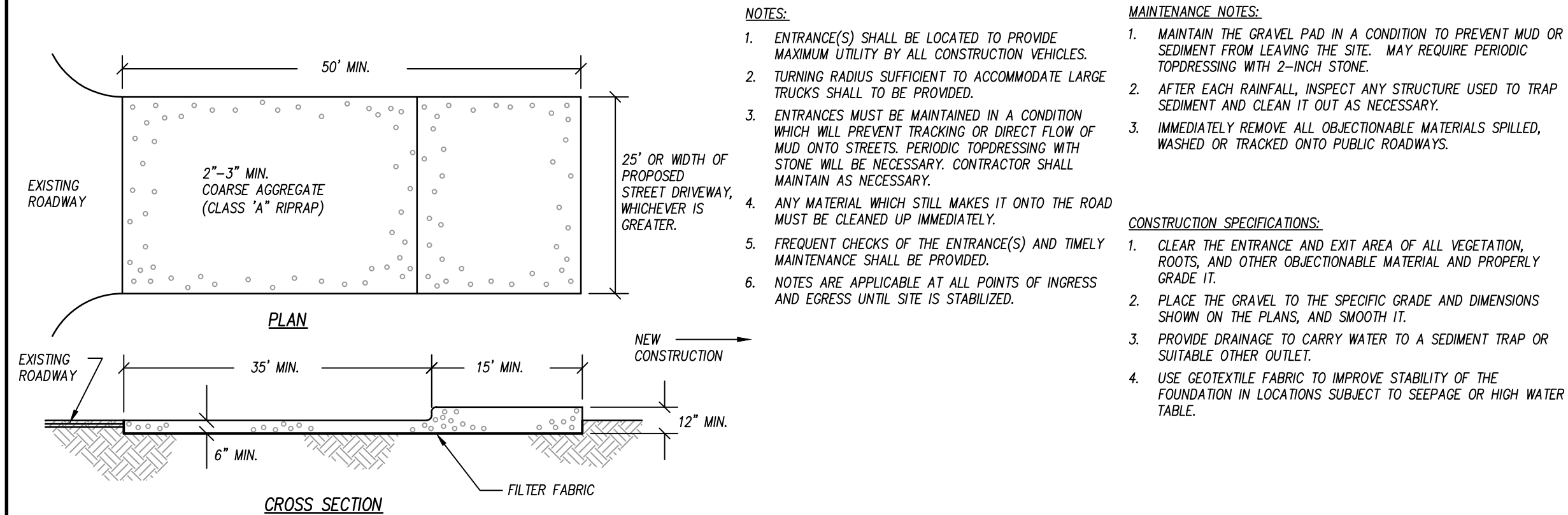
Permittees shall report the following occurrences:

- 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 Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(1)]	<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(j)(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 nature of the 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 recurrence of the noncompliance. [40 CFR 122.41(j)(6).]Division staff may waive the requirement for a written report on a case-by-case basis.



NOTES:

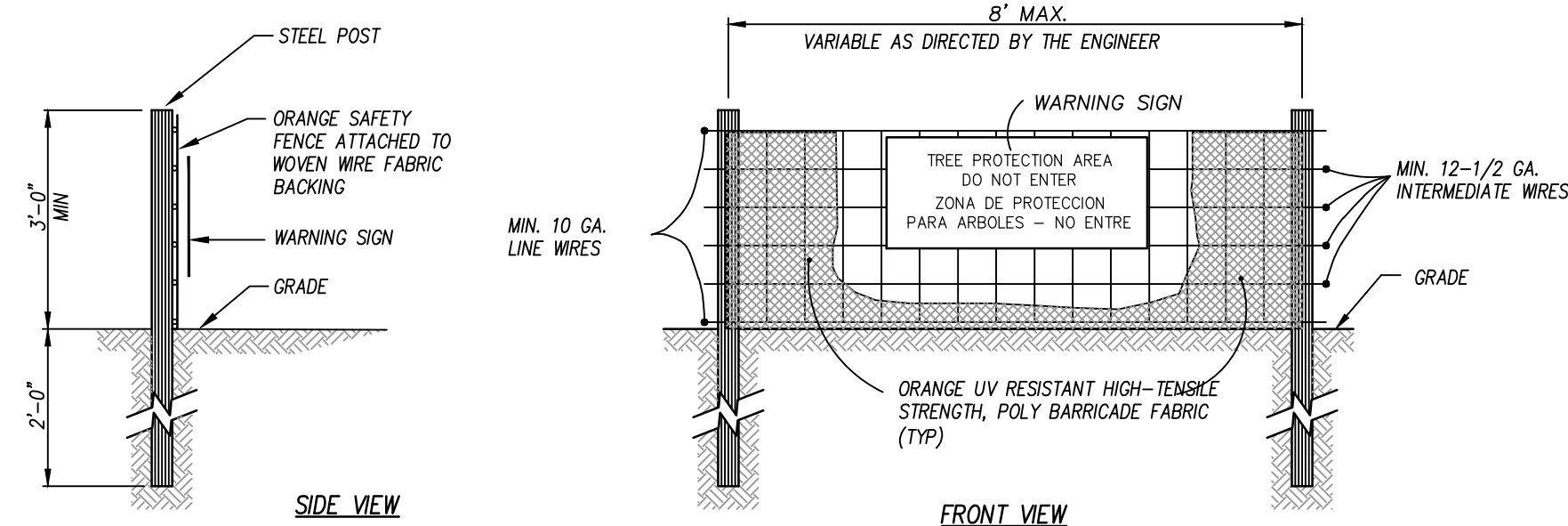
- ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
- TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL TO BE PROVIDED.
- ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH 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.



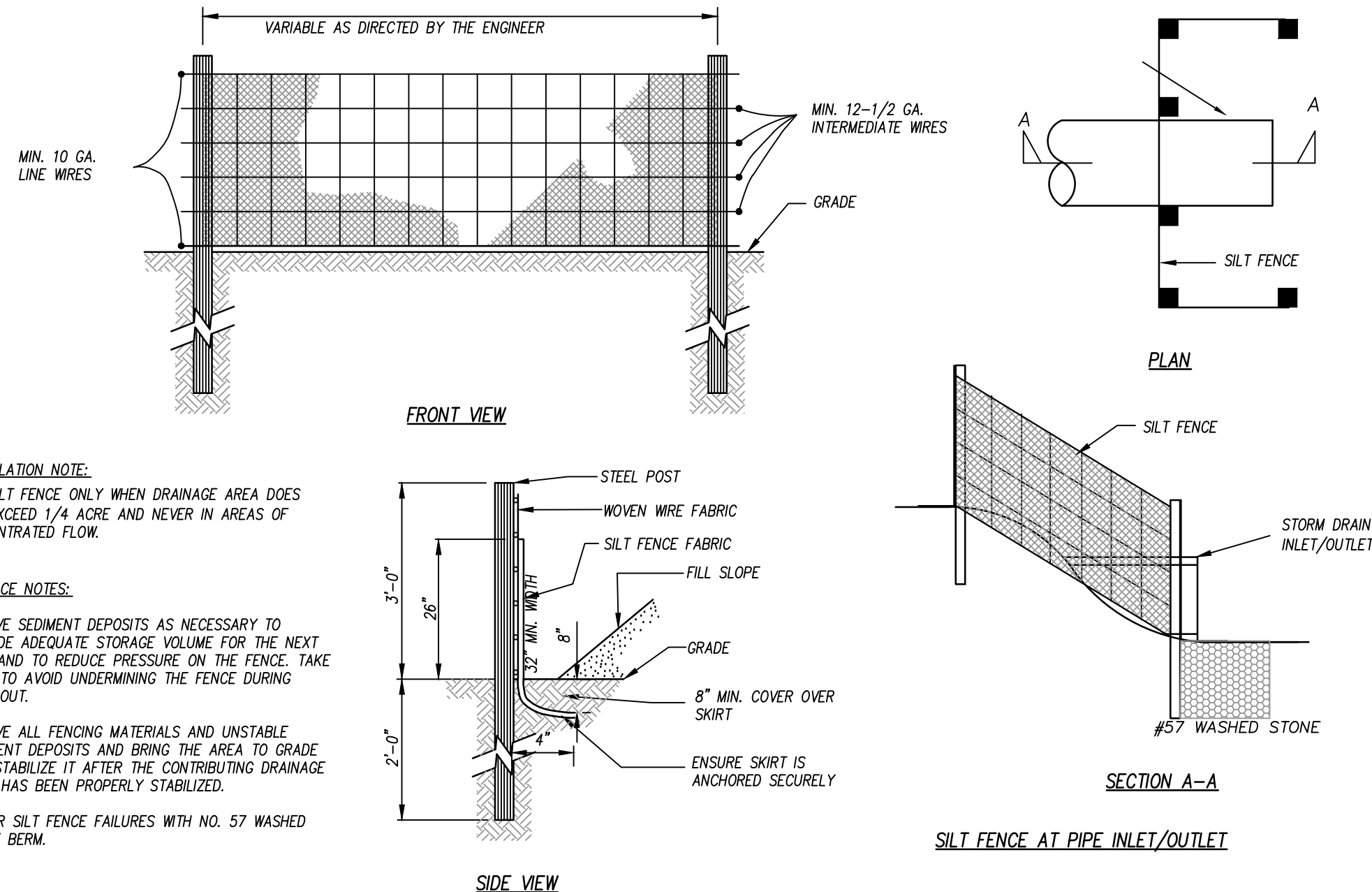
NOTES:

- 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.

WARNING SIGN DETAIL

TEMPORARY TREE PROTECTION FENCE

N.T.S.



INSTALLATION NOTE:
USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

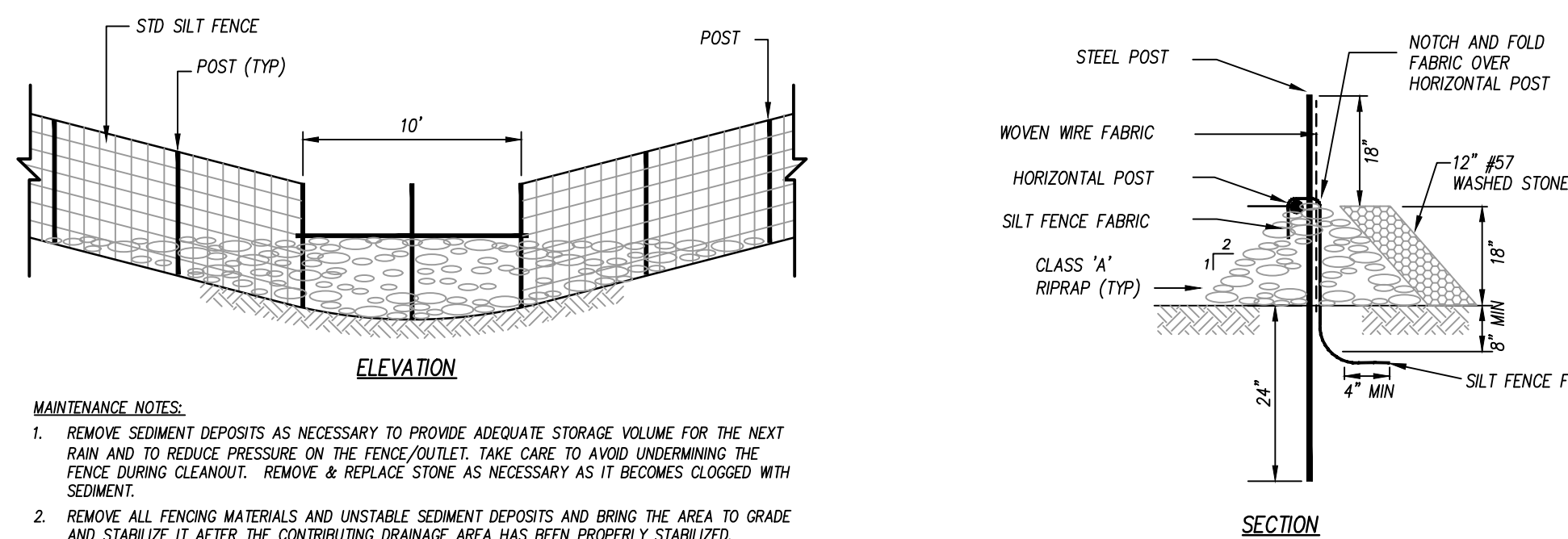
MAINTENANCE NOTES:

- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- 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.
- REPAIR SILT FENCE FAILURES WITH NO. 57 WASHED STONE BEAM.

SILT FENCE AT PIPE INLET/OUTLET

STANDARD TEMPORARY SILT 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.

NOTES:

- INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
- LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">Temporary grass seed covered with straw or other mulches and tackifiersHydroseedingRollled erosion control products with or without temporary grass seedAppropriately applied straw or other mulchPlastic sheeting	<ul style="list-style-type: none">Permanent grass seed covered with straw or other mulches and tackifiersGeotextile fabrics such as permanent soil reinforcement mattingHydroseedingShrubs or other permanent plantings covered with mulchUniform and evenly distributed ground cover sufficient to restrain erosionStructural methods such as concrete, asphalt or retaining wallsRollled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

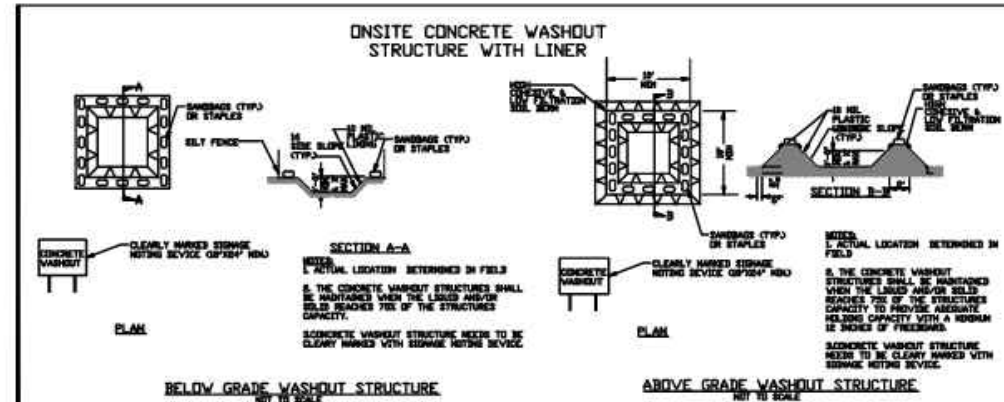
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

NCDEQ STANDARD NOTES

N.T.S.

adwarchitects
environmentsforlife

architecture planning interiors

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400 Regency Forest Drive
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LA: C-106, PE: C-1595



**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

**EROSION CONTROL
DETAILS**

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

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SHEET NUMBER

C701

REINFORCED SILT FENCE OUTLET

N.T.S.



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

DATE 07-18-2025

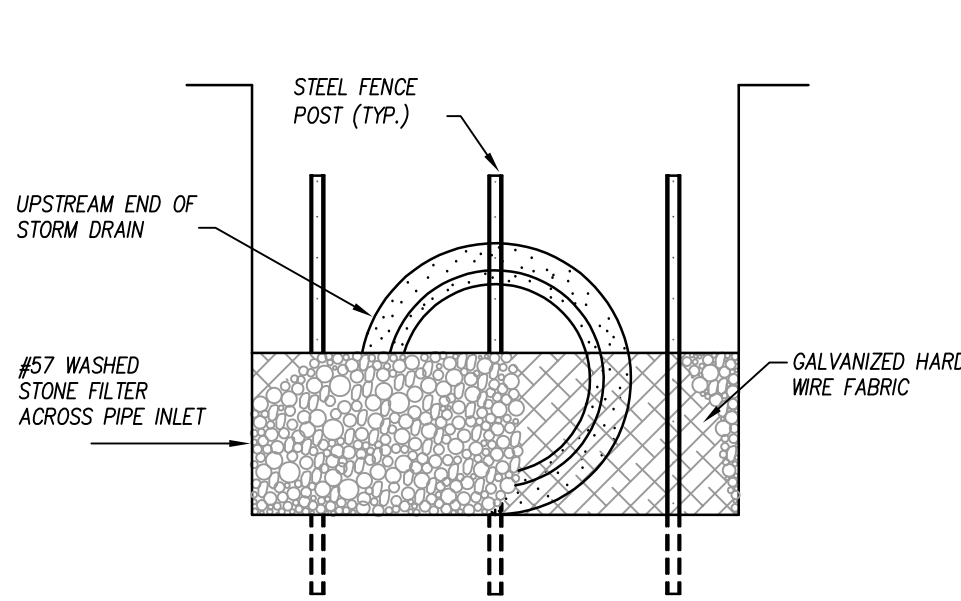
CLH PROJECT NO 22-154

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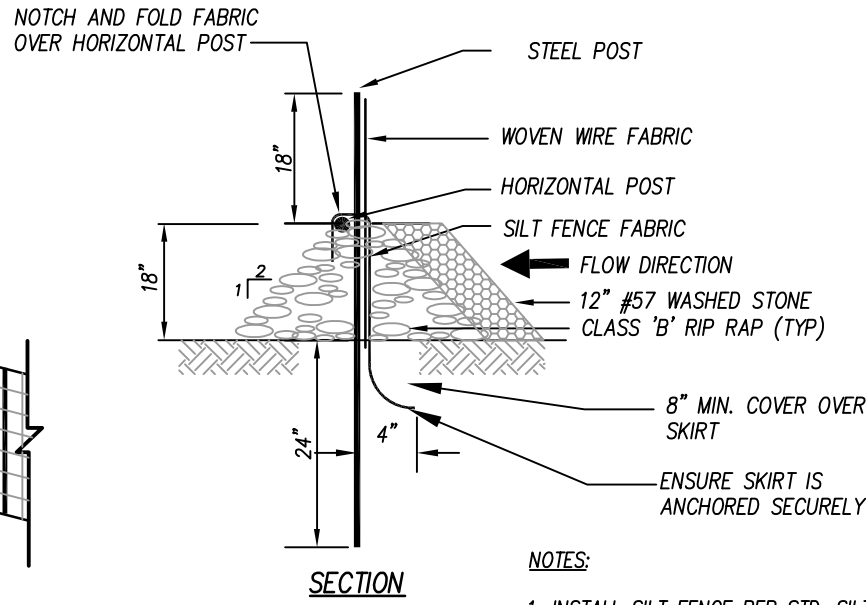
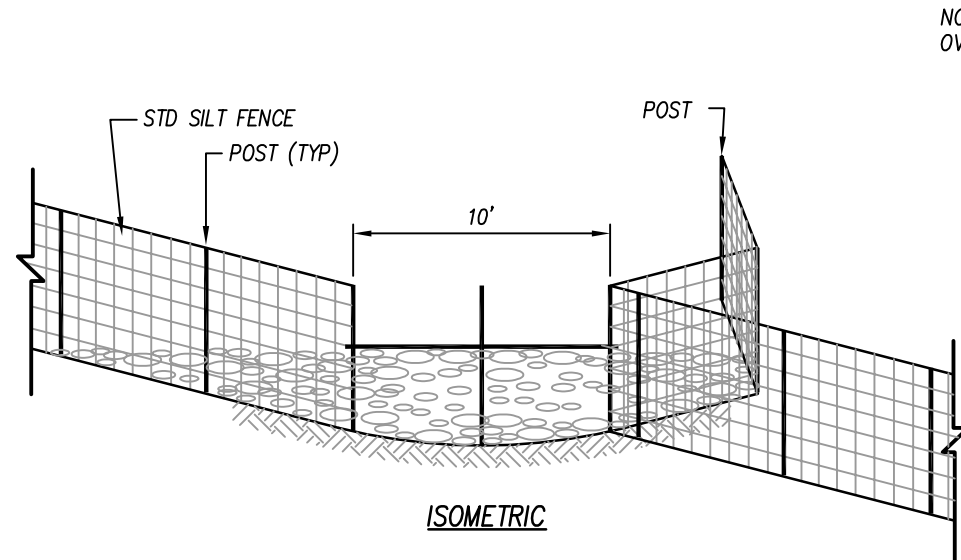
C702



PROTECTION OF STORM DRAIN UNDER CONSTRUCTION

N.T.S.

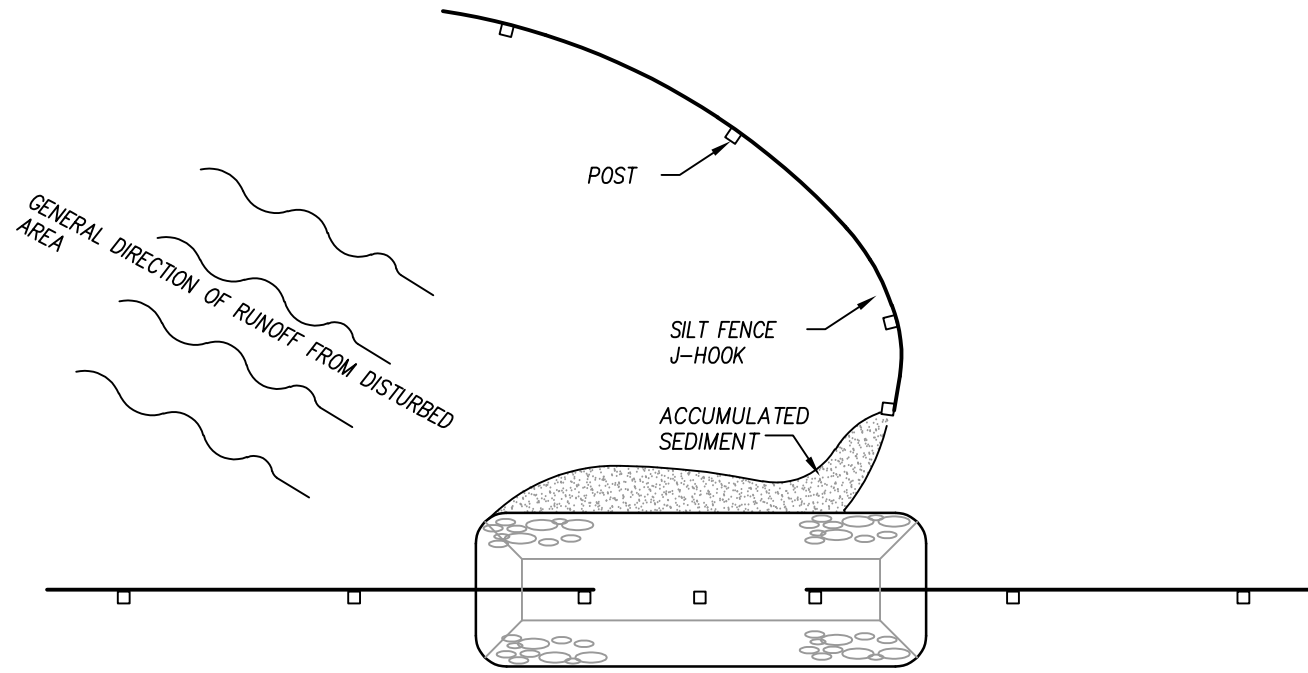
- MAINTENANCE NOTES:**
1. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
 2. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM RESPAVED AND COMPACTED IN ACCORDANCE W/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.



- NOTES:**
1. INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
 2. LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.

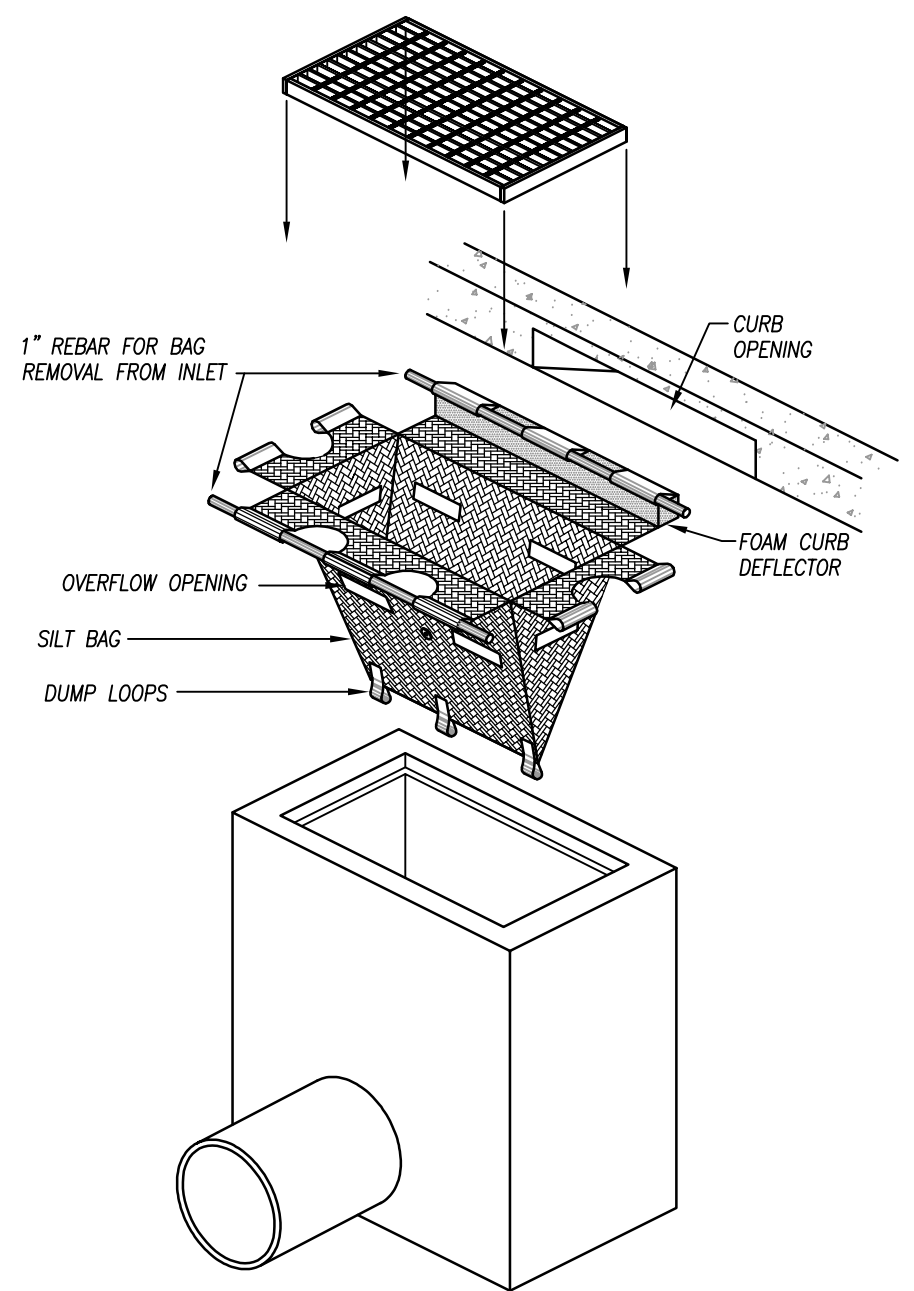
TEMPORARY REINFORCED SILT FENCE J-HOOK INSTALLATION

N.T.S.



PLAN VIEW REINFORCED SILT FENCE WITH J-HOOK OUTLET

- MAINTENANCE NOTES:**
1. 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.
 2. 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.

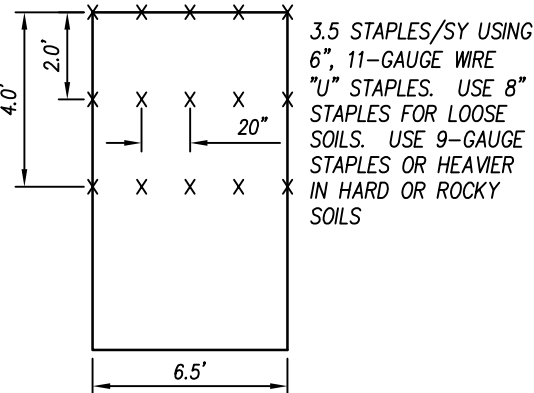


SILT BAG INLET PROTECTION

N.T.S.

- NOTES:**
1. CONTRACTOR TO INSPECT SILT BAG EVERY TWO WEEKS OR AFTER EVERY SUBSTANTIAL RAIN EVENT.
 2. CONTRACTOR TO REMOVE AND DISPOSE OF COLLECTED SILT AT AN ACCEPTABLE OFF SITE LOCATION.
 3. COLLECTED SEDIMENT TO BE REMOVED ROUTINELY TO ENSURE FUNCTIONALITY OF SILT BAG.
 4. DEVICE SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE GEOTEXTILE TO FIT THE OPENING OF A CATCH BASIN OR DROP INLET TO FILTER SEDIMENT FROM RUNOFF ENTERING THE INLET. DEVICE SHALL BE PROVIDED WITH AN INTEGRAL CURB DEFLECTOR IF INSTALLED AT A CATCH BASIN WITH A VERTICAL OPENING ADJACENT TO A HORIZONTAL GRATE.
 5. THE DEVICE SHALL BE A HIGH FLOW "SILT SACK" AS MANUFACTURED BY AGF ENVIRONMENTAL, INC. OR APPROVED EQUAL.
 6. INSTALL DEVICE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND INSTALL A CURB DEFLECTOR IF APPROPRIATE.
 7. INSPECT DEVICE AFTER EACH RAIN EVENT AND AT INTERVALS NOT EXCEEDING TWO WEEKS DURING CONSTRUCTION. REMOVE, EMPTY, CLEAN, AND REPLACE THE DEVICE AS NEEDED DURING CONSTRUCTION. EMPTY COLLECTED SEDIMENT IN APPROVED, PROTECTED LOCATION. REMOVE AND DISPOSE OF DEVICE FOLLOWING FULL AND PERMANENT STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.

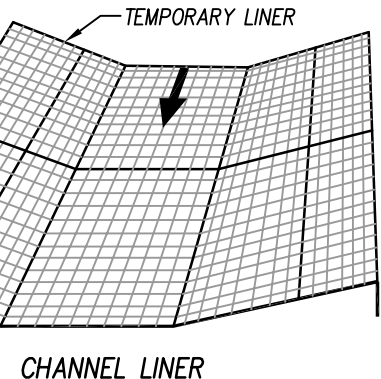
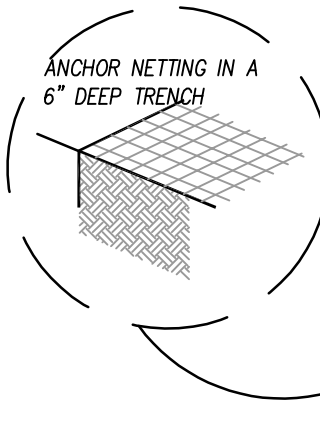
- MAINTENANCE NOTES:**
1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
 2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
 3. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.



TEMPORARY MAT STAPLE PATTERN

N.T.S.

- MATting INSTALLATION NOTES:**
1. INSTALL TEMPORARY CHANNEL MATting IN ALL DIVERSION SWALES OR OTHER GRASSSED 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 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.

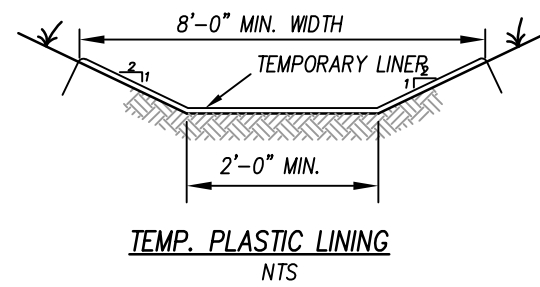


CHANNEL LINER

DIVERSION DITCH SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RRIPRAP DEPTH (IN)
TDD-1	2	2:1	1.00%	335 LF	GRASS	EXCELSIOR	6	N/A
TDD-2	3	2:1	1.32%	170 LF	GRASS	EXCELSIOR	7	N/A

- CONSTRUCTION SPECIFICATIONS:**
1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBSTRUCTIONABLE 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.

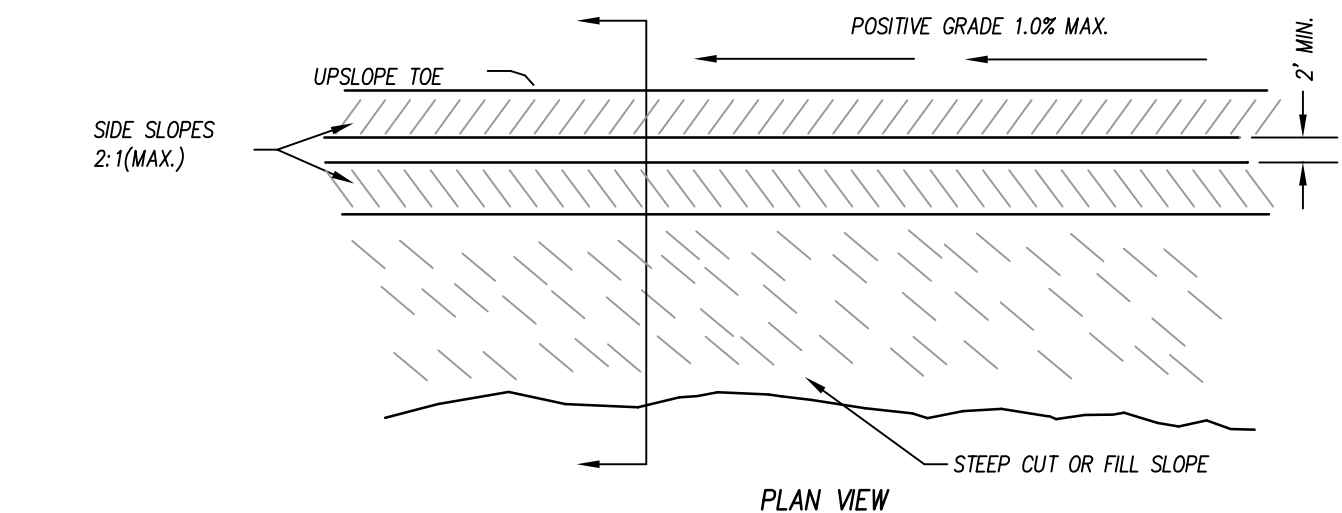


TEMP. PLASTIC LINING

N.T.S.

MAINTENANCE NOTES:

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



PLAN VIEW

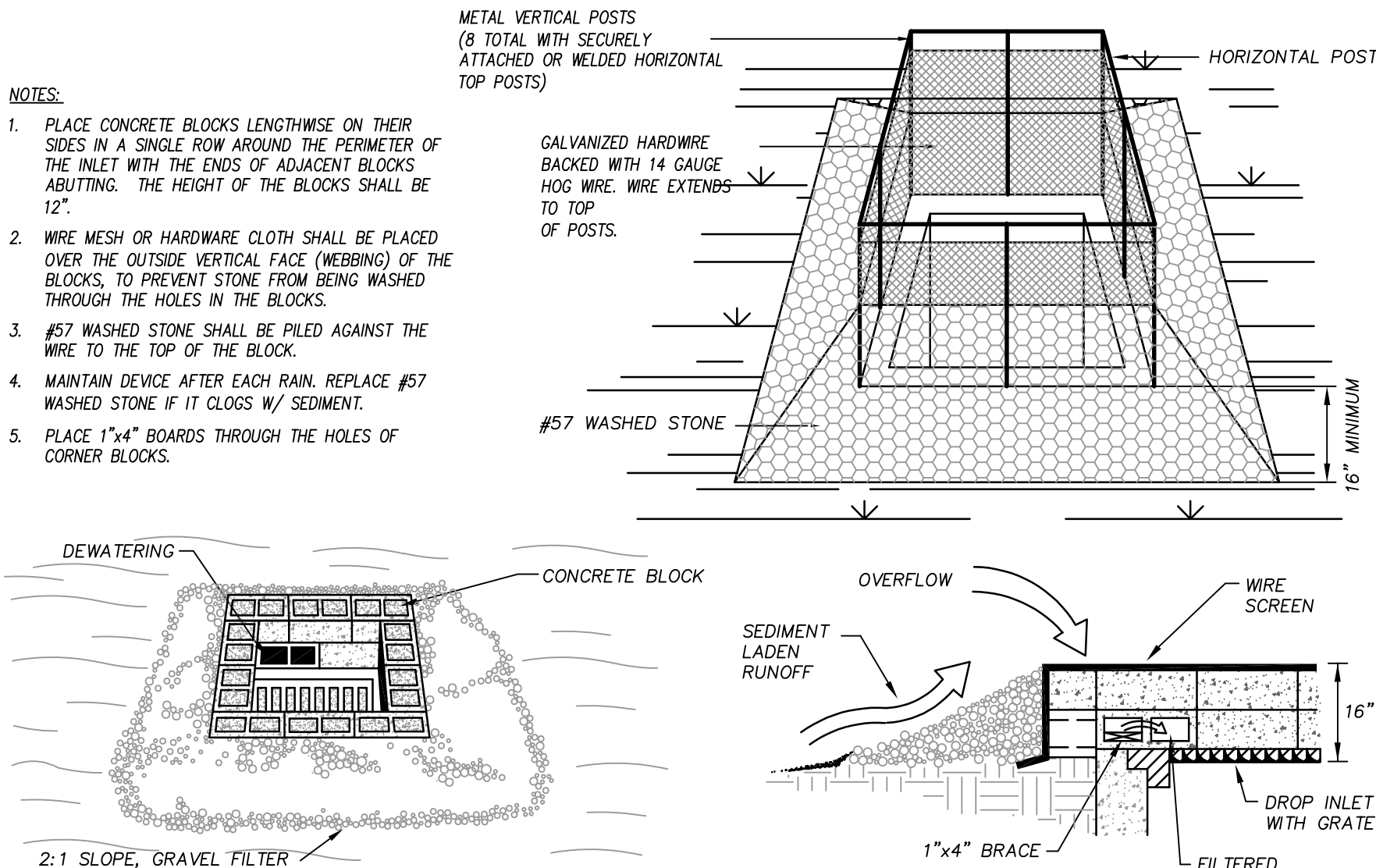
TEMPORARY DIVERSION DITCH / BERM

N.T.S.

- MAINTENANCE NOTES:**
1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
 2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
 3. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

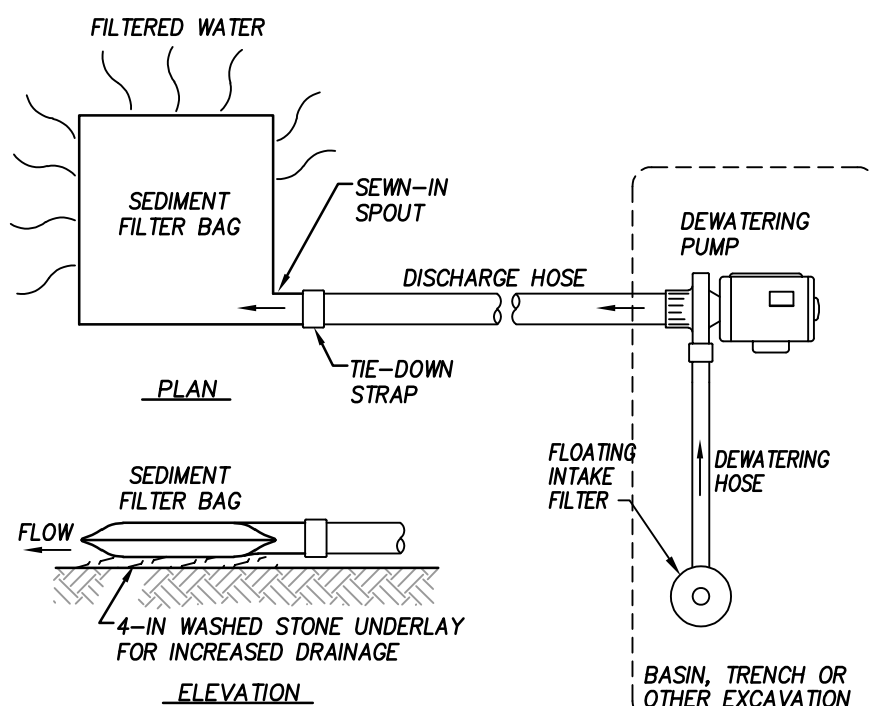
NOTE:

TEMPORARY INLET PROTECTION MAY BE SUBSTITUTED WITH A PROPERLY SIZED FILTERMESH COMPOST SOCK OR APPROVED EQUAL IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.



CATCH BASIN AND YARD INLET PROTECTION

N.T.S.



CONSTRUCTION NOTES:

1. SILT BAG SHALL BE A PERMEABLE, POLYPROPYLENE, NON-WOVEN GEOTEXTILE (WITH AN 80 SIEVE AOS) SEWN INTO A BAG AND MANUFACTURED TO ACCEPT AND FILTER PUMPED, SEDIMENT-LADEN WATER FROM DEWATERING ACTIVITIES.
2. SILT BAG SHALL BE SIZED BY THE MANUFACTURER AS APPROPRIATE FOR THE DEWATERING PUMP DISCHARGE RATE AND SHALL BE FITTED WITH A FILL-SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE PIPING OF THE DEWATERING PUMP.
3. DEWATERING PUMP/HOSE SHALL BE EQUIPPED WITH A FLOATING INTAKE FILTER.
4. INSTALL SILT BAG ON AN UNDISTURBED OR FULLY STABILIZED SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CAUSING EROSION.

MAINTENANCE NOTES:

1. MONITOR BAG DURING PUMPING OPERATIONS. ENSURE PUMP RATE DOES NOT EXCEED.
2. REMOVE AND REPLACE SILT BAG WHEN DEVICE NO LONGER DRAINS EFFICIENTLY DUE TO ACCUMULATED SEDIMENT IN BAG.
3. EMPTY BAG WITHIN DISTURBED LIMITS OF THE SITE PROTECTED BY OTHER EROSION CONTROL MEASURES OR DISPOSE OF OFF-SITE AT AN APPROPRIATELY PERMITTED LOCATION.

DEWATERING SEDIMENT FILTER BAG

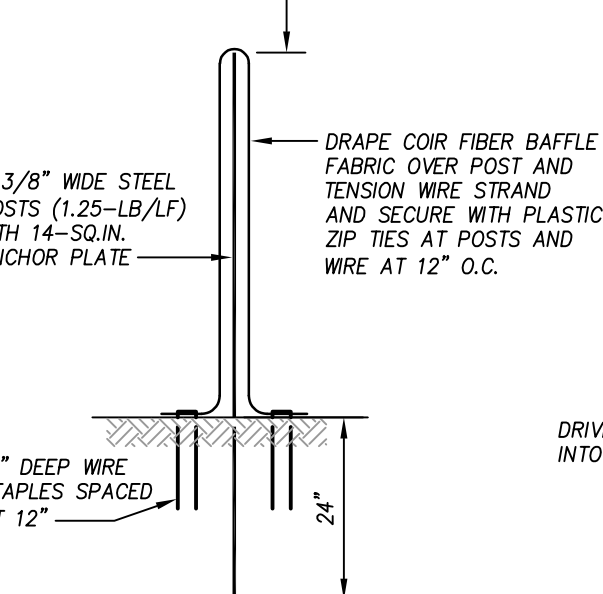
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MAINTENANCE NOTES:

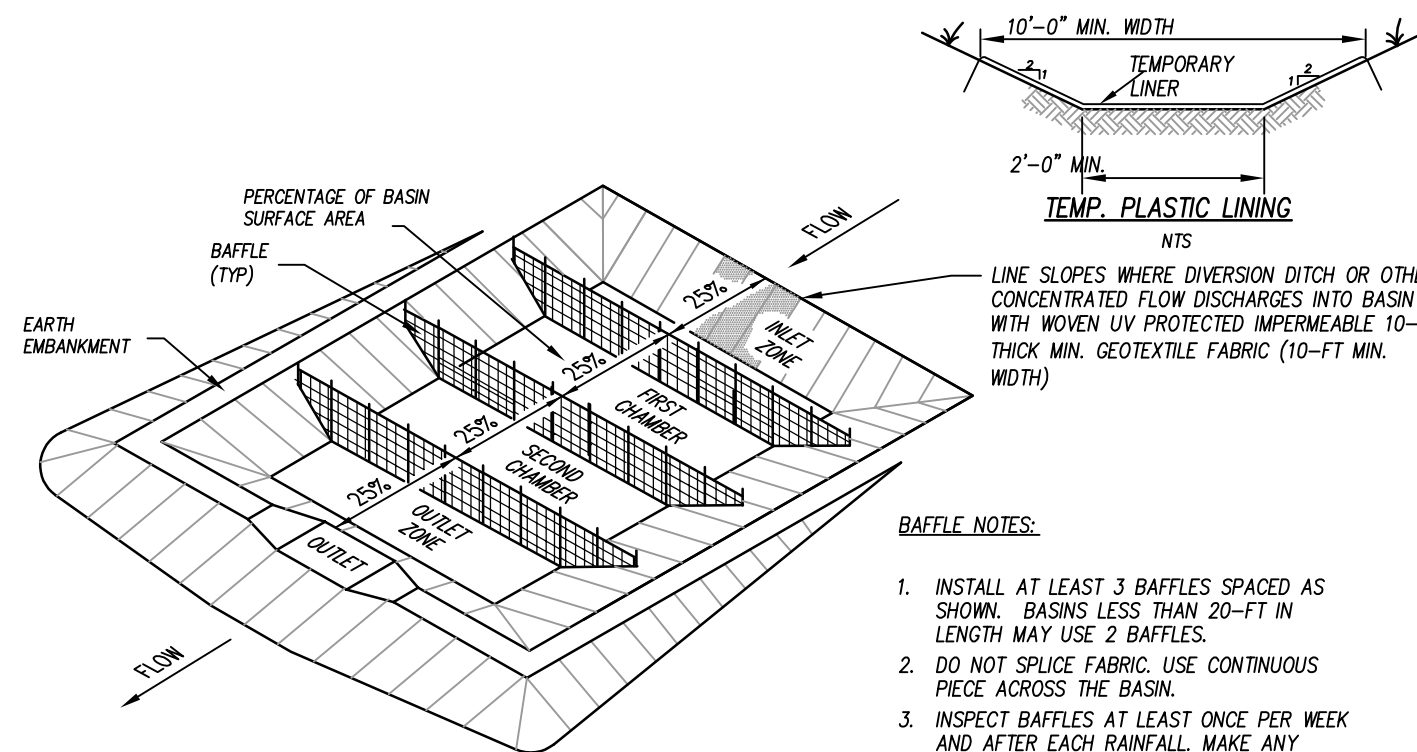
1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROMOTE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEAN OUT, AND REPLACE IF DAMAGED DURING CLEAN OUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND, UNLESS SEDIMENT DEPOSITS BRING THE AREA TO GRADE AND STABILIZE THE AREA.

BAFFLE FABRIC:
100% COCONUT FIBER (COR) TWINE, HIGH-STRENGTH WOVEN MESH WITH THE FOLLOWING PROPERTIES:
THICKNESS: 0.30 IN. MIN.
TENSILE STRENGTH (MET): 900 x 680 LB/FT MIN.
ELONGATION (MET): 69% x 34% MAX.
FLOW VELOCITY: 10-12 FT/SEC
WEIGHT: 20-OZ/SY MIN.
WIDTH: 6.5-FT MIN.
OPEN AREA: 50% MAX.

SET TOP OF POST AT 6-IN ABOVE CREST OF SPILLWAY AND AT LEAST 2-IN BELOW TOP OF EMBANKMENT



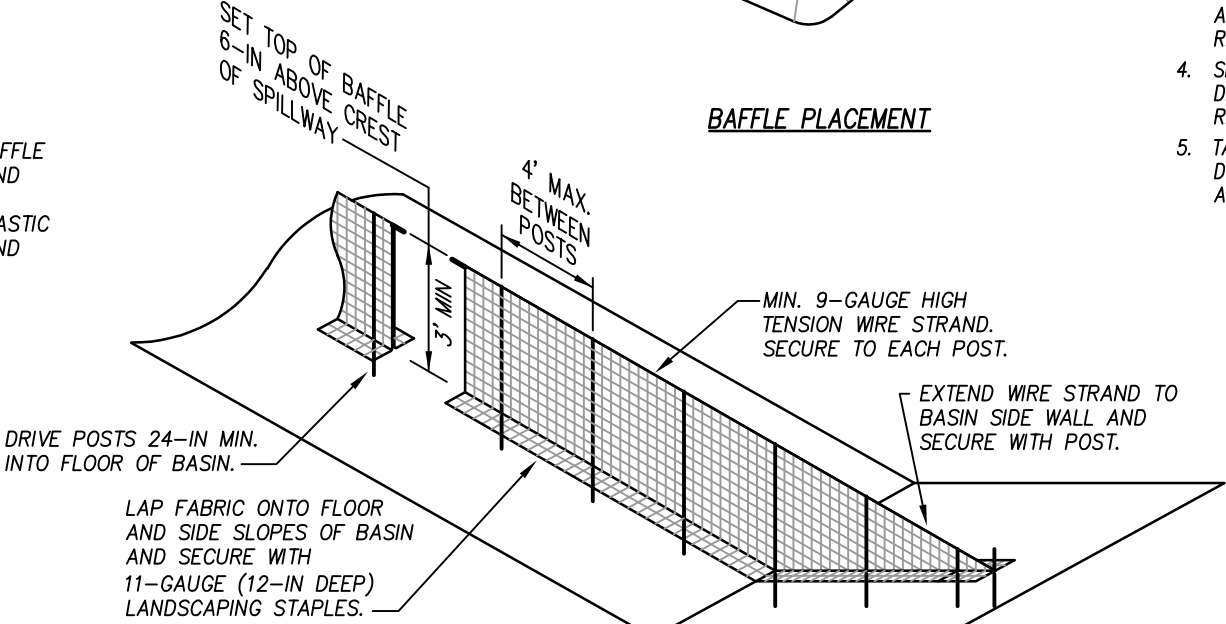
BAFFLE SECTION



BAFFLE PLACEMENT

BAFFLE NOTES:

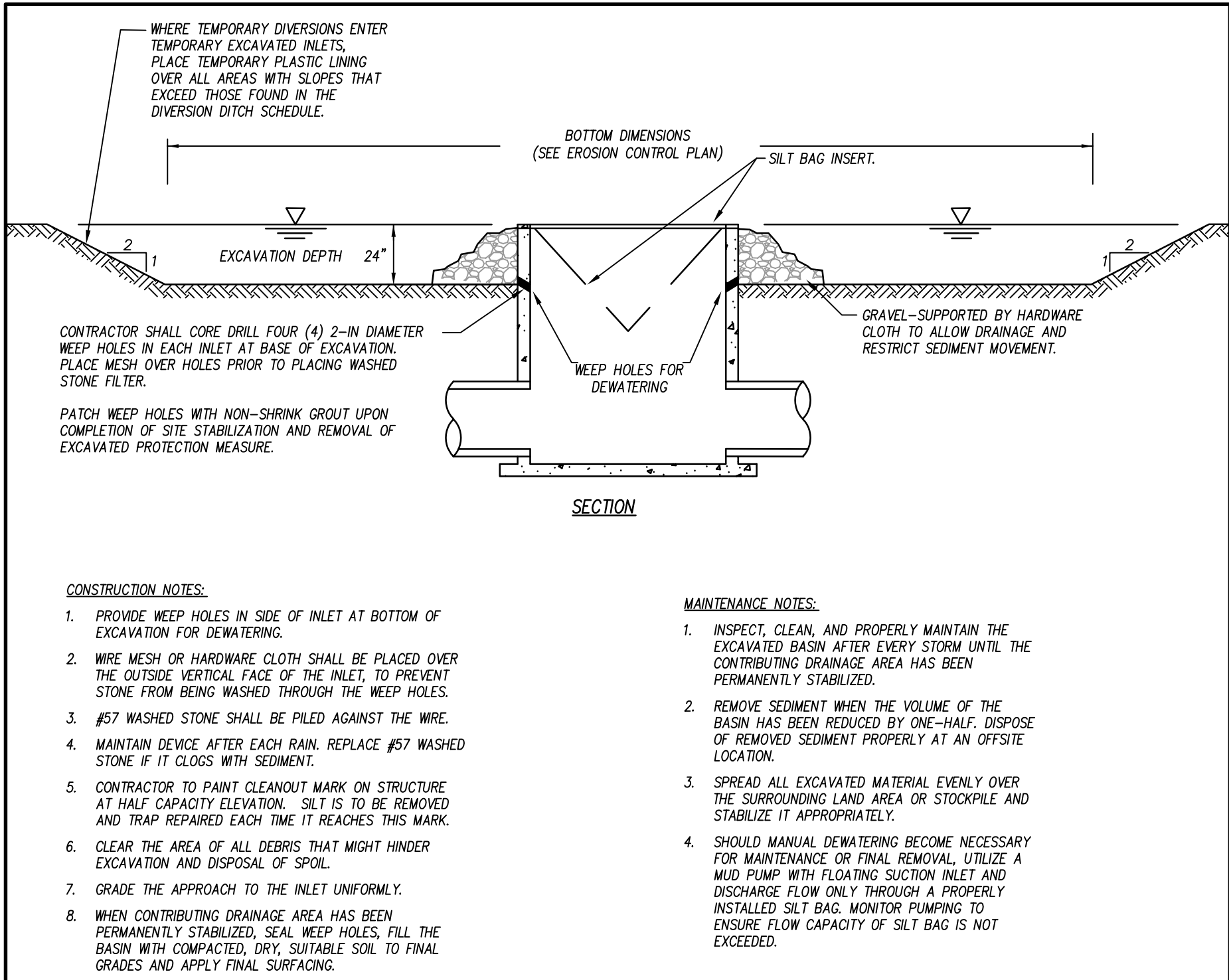
1. INSTALL AT LEAST 3 BAFFLES SPACED AS SHOWN. BASINS LESS THAN 20-FT IN LENGTH MAY USE 2 BAFFLES.
2. DO NOT SPlice FABRIC. USE CONTINUOUS PEECE ACROSS THE BASIN.
3. INSPECT BAFFLES AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
4. SHOULD BAFFLE FABRIC COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE PROMPTLY.
5. TAKE CARE TO AVOID DAMAGE TO BAFFLES DURING PERIODIC SEDIMENT REMOVAL. REPAIR ANY DAMAGE AS NEEDED.



BAFFLE INSTALLATION

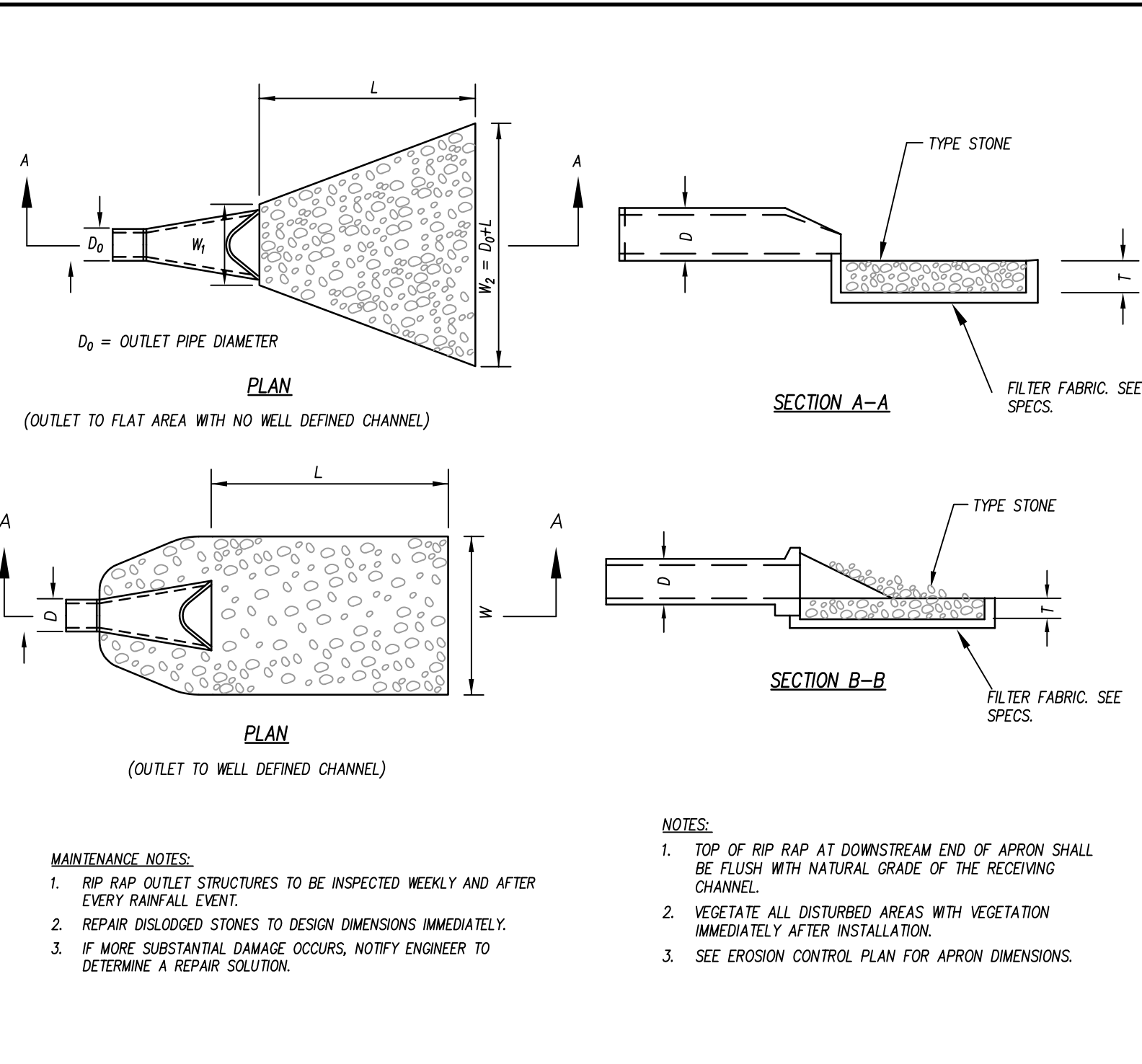
TEMPORARY BASIN BAFFLES

N.T.S.



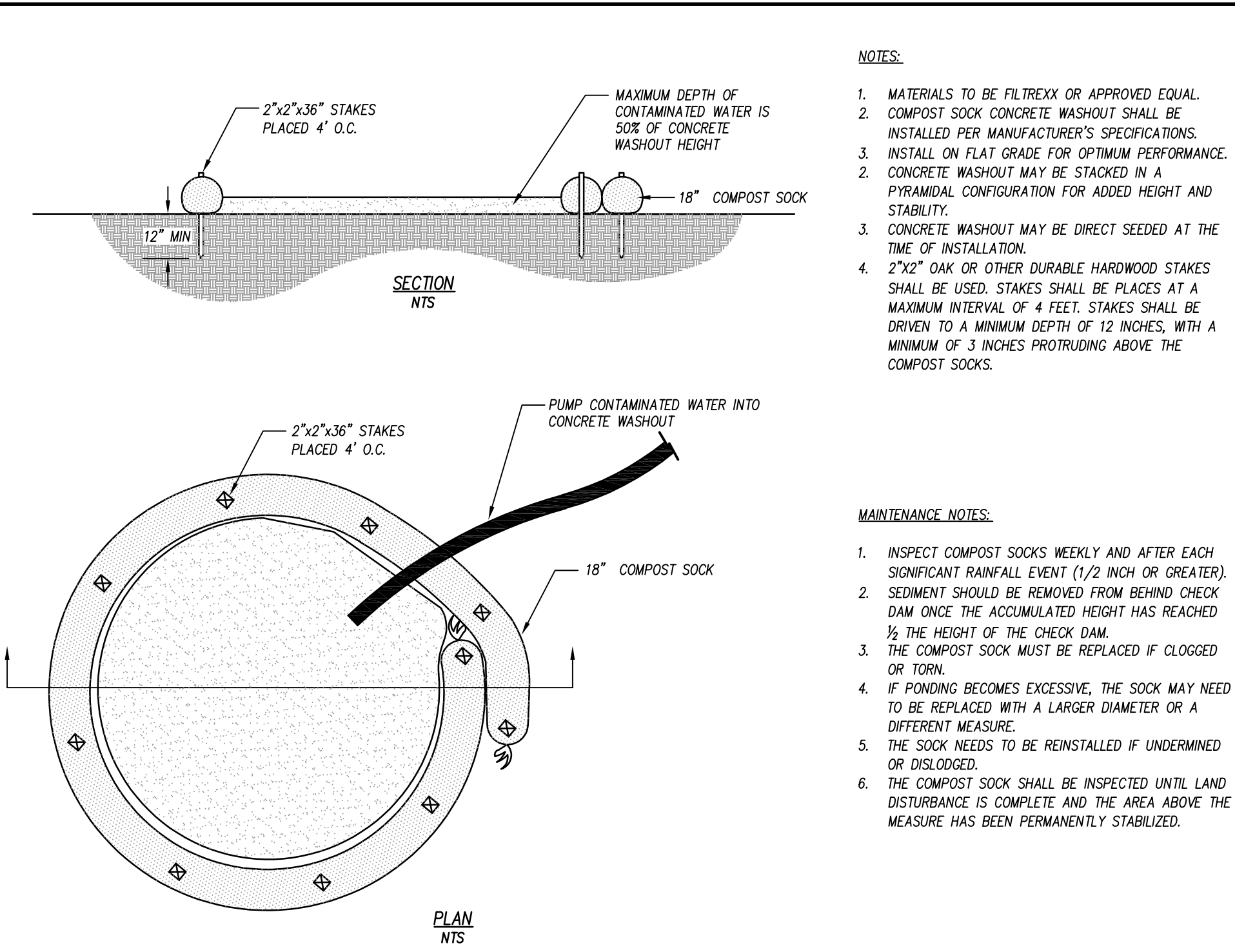
EXCAVATED INLET PROTECTION

N.T.S.



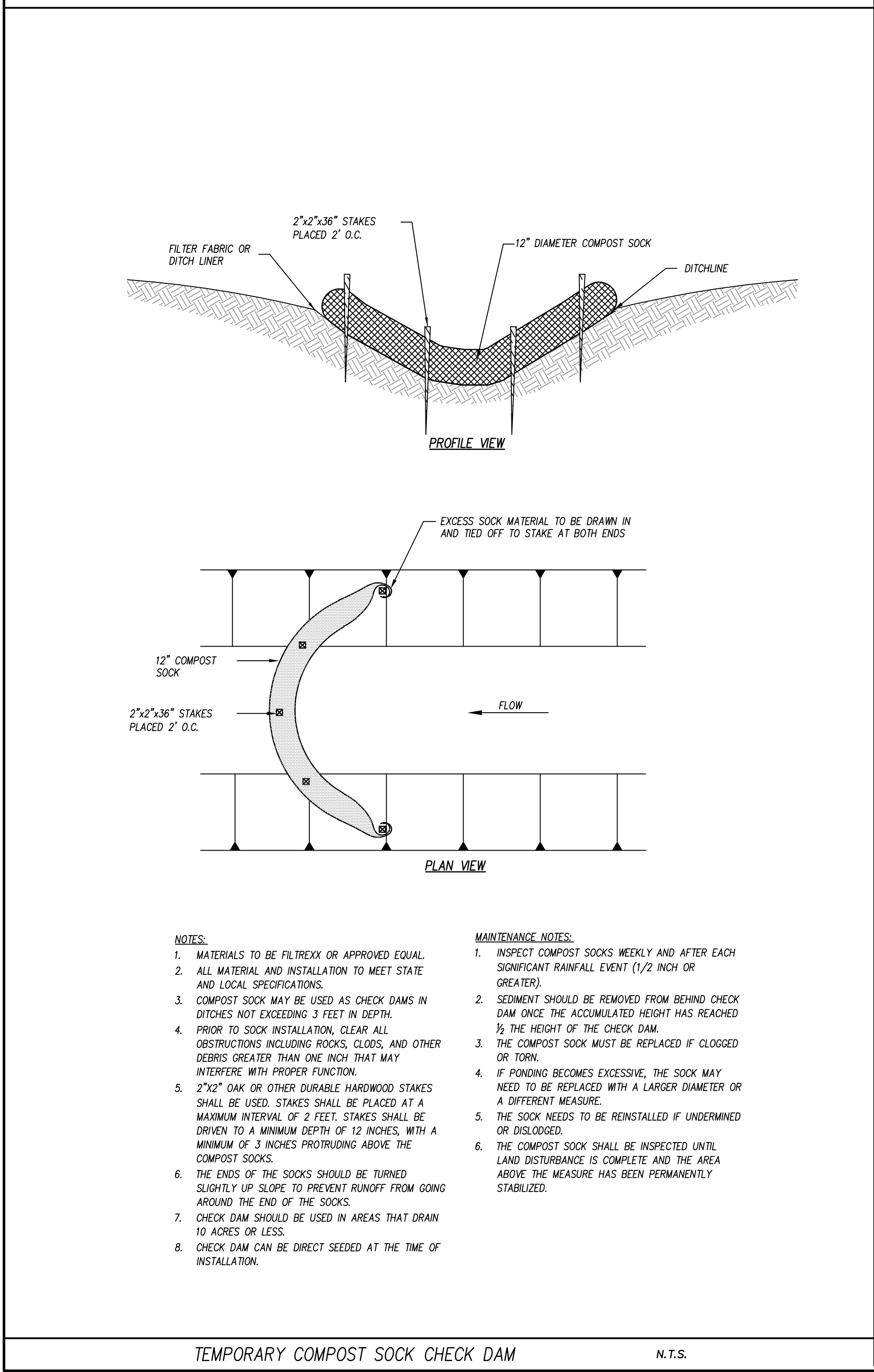
OUTLET PROTECTION

N.T.S.



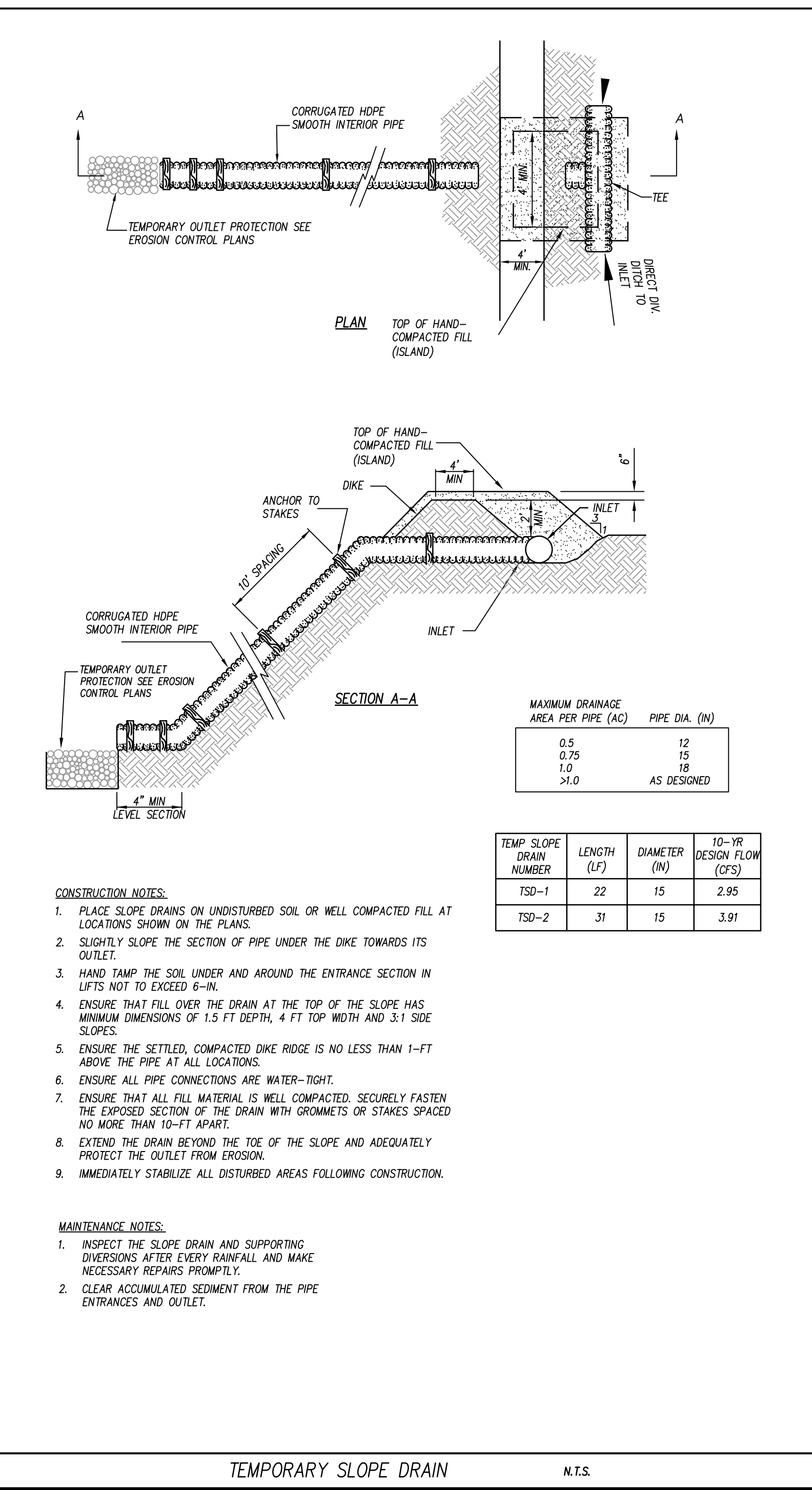
TEMPORARY COMPOST SOCK CONCRETE WASHOUT

N.T.S.



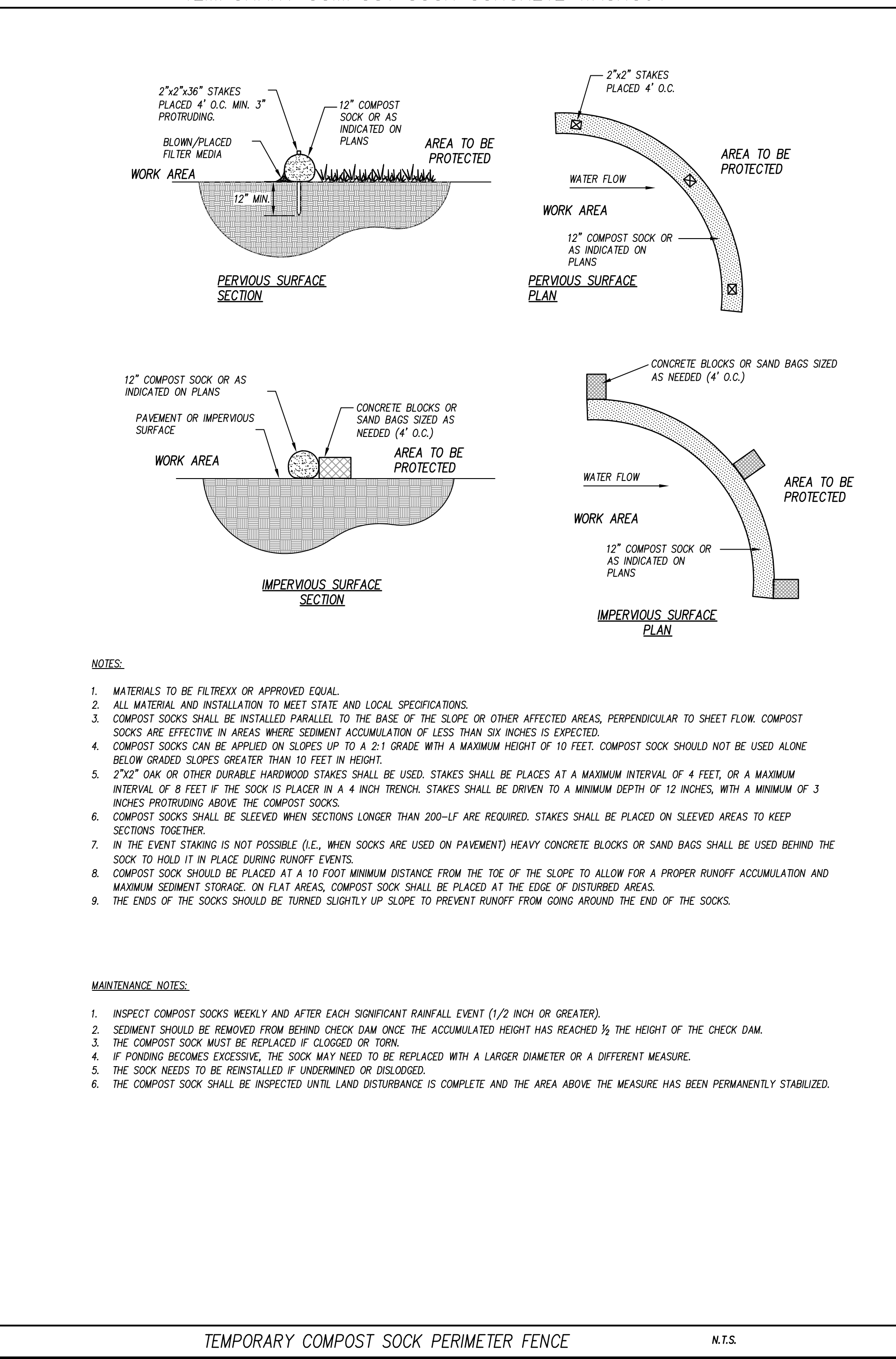
TEMPORARY COMPOST SOCK CHECK DAM

N.T.S.



TEMPORARY SLOPE DRAIN

N.T.S.



TEMPORARY COMPOST SOCK PERIMETER FENCE

N.T.S.

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**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

**EROSION CONTROL
DETAILS**

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

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SHEET NUMBER

C703

1. THE STORMWATER WETLAND SHALL BE UTILIZED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
- 2.1. 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. INSTALL COFFER DAM UPSTREAM OF POND IN CASE OF ANY UNEXPECTED PRECIPITATION EVENT. UTILIZE MUD PUMP WITH FLOATING SUCTION INLET THROUGH A SEDIMENT FILTER BAG LOCATED DOWNSTREAM OF BASIN.
- 2.2. INSTALL WETLAND BARREL, OUTLET STRUCTURE, EMBANKMENT, EMERGENCY SPILLWAY AND OTHER WETLAND COMPONENTS.
- 2.3. CALL FOR SITE INSPECTION PRIOR TO BACKFILLING WETLAND BARREL.
- 2.4. INSTALL TEMPORARY SKIMMER ON WETLAND DRAIN. DRAIN VALVE TO REMAIN OPEN.
- 2.5. EXCAVATE WETLAND TO TEMPORARY SKIMMER BASIN DIMENSIONS. SEE EROSION CONTROL PLAN.
- 2.6. INSTALL BAFFLES AND OTHER TEMPORARY SKIMMER BASIN COMPONENTS.
- 2.7. SEED ALL DISTURBED AREAS.
2. FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF POND DRAINAGE BASIN, PERFORM THE FOLLOWING:
- 2.1. 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. INSTALL COFFER DAM UPSTREAM OF POND IN CASE OF ANY UNEXPECTED PRECIPITATION EVENT. UTILIZE MUD PUMP WITH FLOATING SUCTION INLET THROUGH A SEDIMENT FILTER BAG LOCATED DOWNSTREAM OF BASIN.
- 2.2. REMOVE TEMPORARY BAFFLES.
- 2.3. REMOVE ALL ACCUMULATED SEDIMENT. GRADE WETLAND INTERIOR TO SUBGRADE ELEVATIONS.
- 2.4. INSTALL CLAY LINER AND ARMORED SECTIONS OF FOREBAY WEIRS.
- 2.5. IF ADDITIONAL DE-WATERING IS NEEDED BELOW DRAIN/SKIMMER ELEVATION, UTILIZE A MUD PUMP WITH FLOATING SUCTION INLET AND DISCHARGE REMAINING WATER THROUGH A SEDIMENT FILTER BAG LOCATED OUTSIDE OF THE BASIN. MONITOR PUMPING TO ENSURE FLOW DOES NOT EXCEED THE CAPACITY OF FILTER BAG.
- 2.6. INSTALL AND FINE GRADE TOPSOIL TO FINISH GRADES.
- 2.7. INSTALL TEMPORARY SLOPE LININGS.
- 2.8. REMOVE TEMPORARY CAP/BLOCKING FROM PRIMARY SPILLWAY.
- 2.9. INSTALL WETLAND PLANTINGS.
- 2.10. PERFORM DETAILED TOPOGRAPHIC SURVEY.
- 2.11. FOLLOWING APPROVAL OF SURVEY, REMOVE TEMPORARY SKIMMER AND CLOSE DRAIN VALVE.

1. THE AREA OF THE NEW CONSTRUCTED WETLAND WILL BE UTILIZED AS A TEMP SEDIMENT BASIN DURING CONSTRUCTION.
2. A TEMP. SKIMMER SHALL BE ATTACHED TO THE OUTLET RISER DRAIN. THE BASIN SHALL BE GRADED TO TEMP. CONTOURS SHOWN ON THE EROSION CONTROL PLAN. TEMP. BAFFLES INSTALLED.
3. 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 DAMAGED.
4. 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.
5. PROVIDE PAINT MARK ON RISER AT 12" HEIGHT. CLEAN AND REPAIR ONCE SEDIMENT REACHES MARK.
6. INSTALL ALL COMPONENTS OF POND EMBANKMENT, OUTLET STRUCTURE, SKIMMER, EMERGENCY SPILLWAY, ETC. (UNLESS NOTED) PRIOR TO BEGINNING CLEARING OPERATIONS.
7. PROVIDE GROUND COVER/TEMPORARY SEEDING ON BOTTOM OF TEMPORARY BASINS.

1. CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING SCM AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:
 - 1.1. OUTLET STRUCTURE TOPS AND INVERTS, ORIFICE DIAMETERS, BARREL PIPE SIZES AND INVERTS AND STRUCTURE DIMENSIONS.
 - 1.2. EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.
 - 1.3. TOPOGRAPHY THAT EXTENDS 20 FEET OUTSIDE LIMITS OF POND WATER SURFACE AND EMBANKMENT.

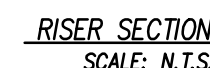
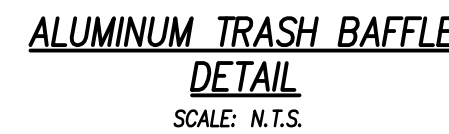
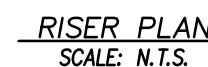
CONTRACTOR SHALL FURNISH AND INSTALL A 6-IN THICK LAYER OF COMPACTED CLAY BENEATH THE WETLAND TOPSOIL IF DEEMED NECESSARY BY THE OWNER.

SUBGRADE OF WETLAND 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.

ADD 12"-18" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
4. THE pH SHALL BE BETWEEN 5.5 AND 7.0.



CONSTRUCTION SEQUENCE

1. THE STORMWATER WETLAND SHALL BE UTILIZED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
- 1.1. 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. INSTALL COFFER DAM UPSTREAM OF POND IN CASE OF ANY UNEXPECTED PRECIPITATION EVENT. UTILIZE MUD PUMP WITH FLOATING SUCTION INLET THROUGH A SEDIMENT FILTER BAG LOCATED DOWNSTREAM OF BASIN.
- 1.2. INSTALL WETLAND BARREL, OUTLET STRUCTURE, EMBANKMENT, EMERGENCY SPILLWAY AND OTHER WETLAND COMPONENTS.
- 1.3. CALL FOR SITE INSPECTION PRIOR TO BACKFILLING WETLAND BARREL.
- 1.4. INSTALL TEMPORARY SKIMMER ON WETLAND DRAIN. DRAIN VALVE TO REMAIN OPEN.
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- 2.2. REMOVE TEMPORARY BAFFLES.
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- 2.4. INSTALL CLAY LINER AND ARMORED SECTIONS OF FOREBAY WEIRS.
- IF ADDITIONAL DE-WATERING IS NEEDED BELOW DRAIN/SKIMMER ELEVATION, UTILIZE A MUD PUMP WITH FLOATING SUCTION INLET AND DISCHARGE REMAINING WATER THROUGH A SEDIMENT FILTER BAG LOCATED OUTSIDE OF THE BASIN. MONITOR PUMPING TO ENSURE FLOW DOES NOT EXCEED THE CAPACITY OF FILTER BAG.
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- 2.11. FOLLOWING APPROVAL OF SURVEY, REMOVE TEMPORARY SKIMMER AND CLOSE DRAIN VALVE.

TEMPORARY SEDIMENT BASIN NOTES:

1. THE AREA OF THE NEW CONSTRUCTED WETLAND WILL BE UTILIZED AS A TEMP SEDIMENT BASIN DURING CONSTRUCTION.
2. A TEMP. SKIMMER SHALL BE ATTACHED TO THE OUTLET RISER DRAIN. THE BASIN SHALL BE GRADED TO TEMP. CONTOURS SHOWN ON THE EROSION CONTROL PLAN. TEMP. BAFFLES INSTALLED.
3. 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 DAMAGED.
4. 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.
5. PROVIDE PAINT MARK ON RISER AT 12" HEIGHT. CLEAN AND REPAIR ONCE SEDIMENT REACHES MARK.
6. INSTALL ALL COMPONENTS OF POND EMBANKMENT, OUTLET STRUCTURE, SKIMMER, EMERGENCY SPILLWAY, ETC. (UNLESS NOTED) PRIOR TO BEGINNING CLEARING OPERATIONS.
7. PROVIDE GROUND COVER/TEMPORARY SEEDING ON BOTTOM OF TEMPORARY BASINS.

TEMP. SEDIMENT BASIN MAINT. 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.

AS-BUILT SURVEY REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING SOM AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:
- 1.1. OUTLET STRUCTURE TOPS AND INVERTS, ORIFICE DIAMETERS, BARREL PIPE SIZES AND INVERTS AND STRUCTURE DIMENSIONS.
- 1.2. EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.
- 1.3. TOPOGRAPHY THAT EXTENDS 20 FEET OUTSIDE LIMITS OF POND WATER SURFACE AND EMBANKMENT.

CLAY LINER

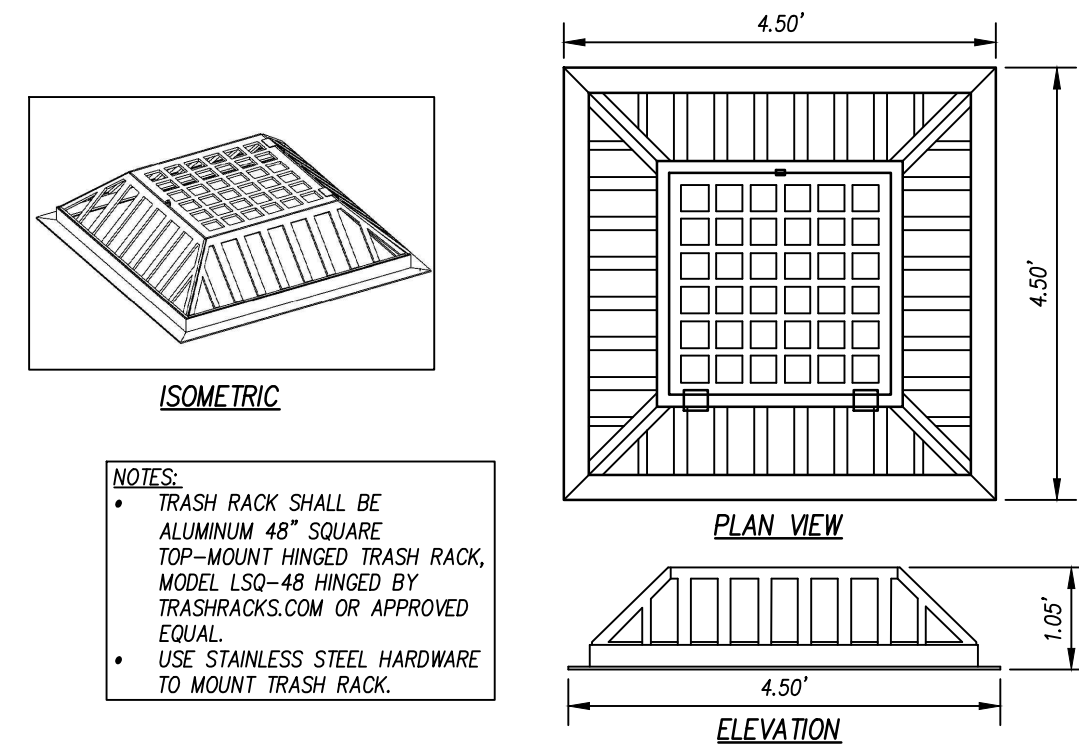
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TOPSOIL

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 2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
 3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
 4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.



TRASH RACK DETAIL

SCALE: N.T.S.

- NOTES:
- TRASH RACK SHALL BE ALUMINUM 48" SQUARE TOP-MOUNT HINGED TRASH RACK, MODEL L50-48 HINGED BY TRASHRACKS.COM OR APPROVED EQUAL.
 - USE STAINLESS STEEL HARDWARE TO MOUNT TRASH RACK.

ISOMETRIC

PLAN VIEW

ELEVATION

NOTES:

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ISOMETRIC

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 - USE STAINLESS STEEL HARDWARE TO MOUNT TRASH RACK.

ISOMETRIC

PLAN VIEW

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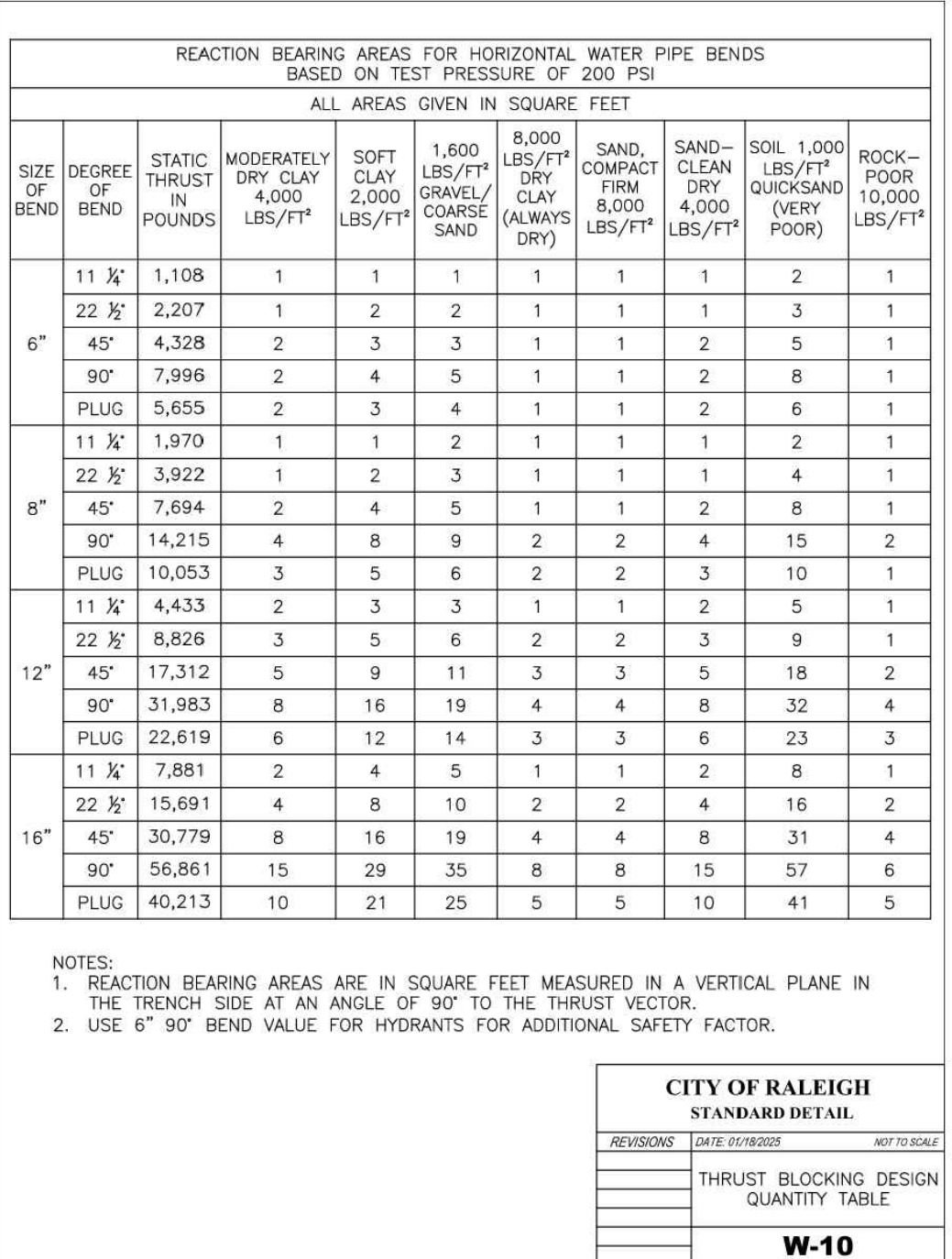
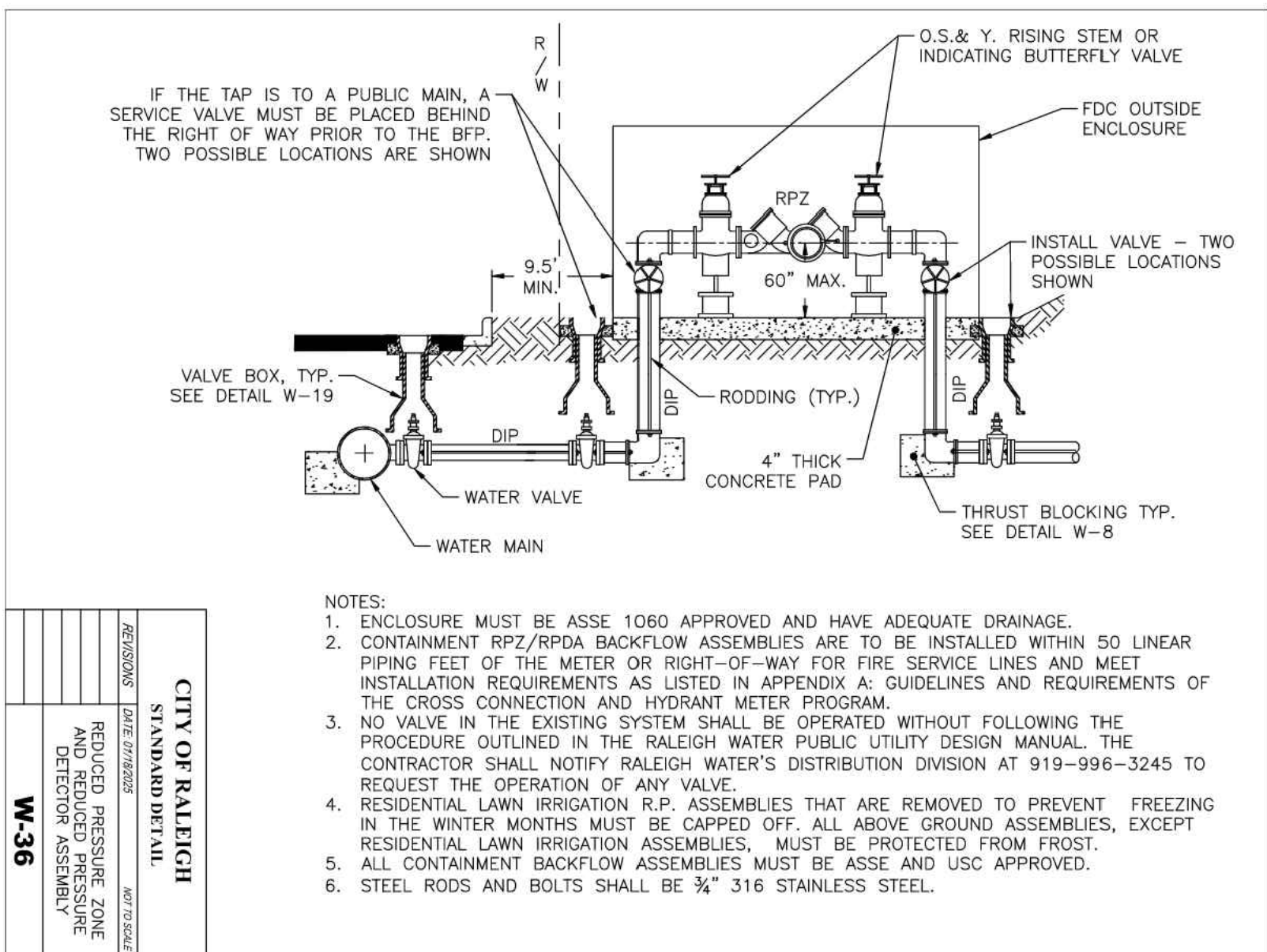
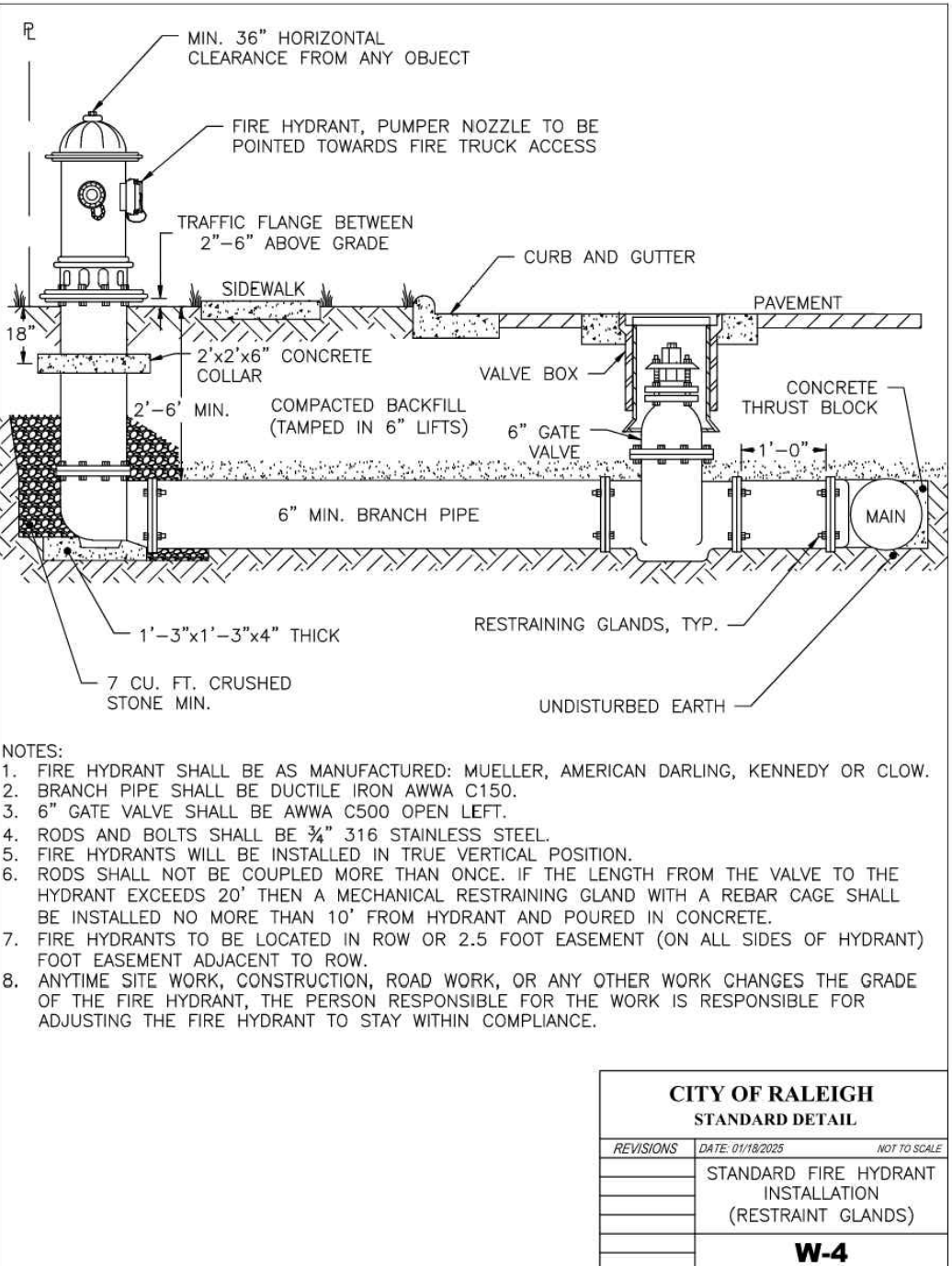
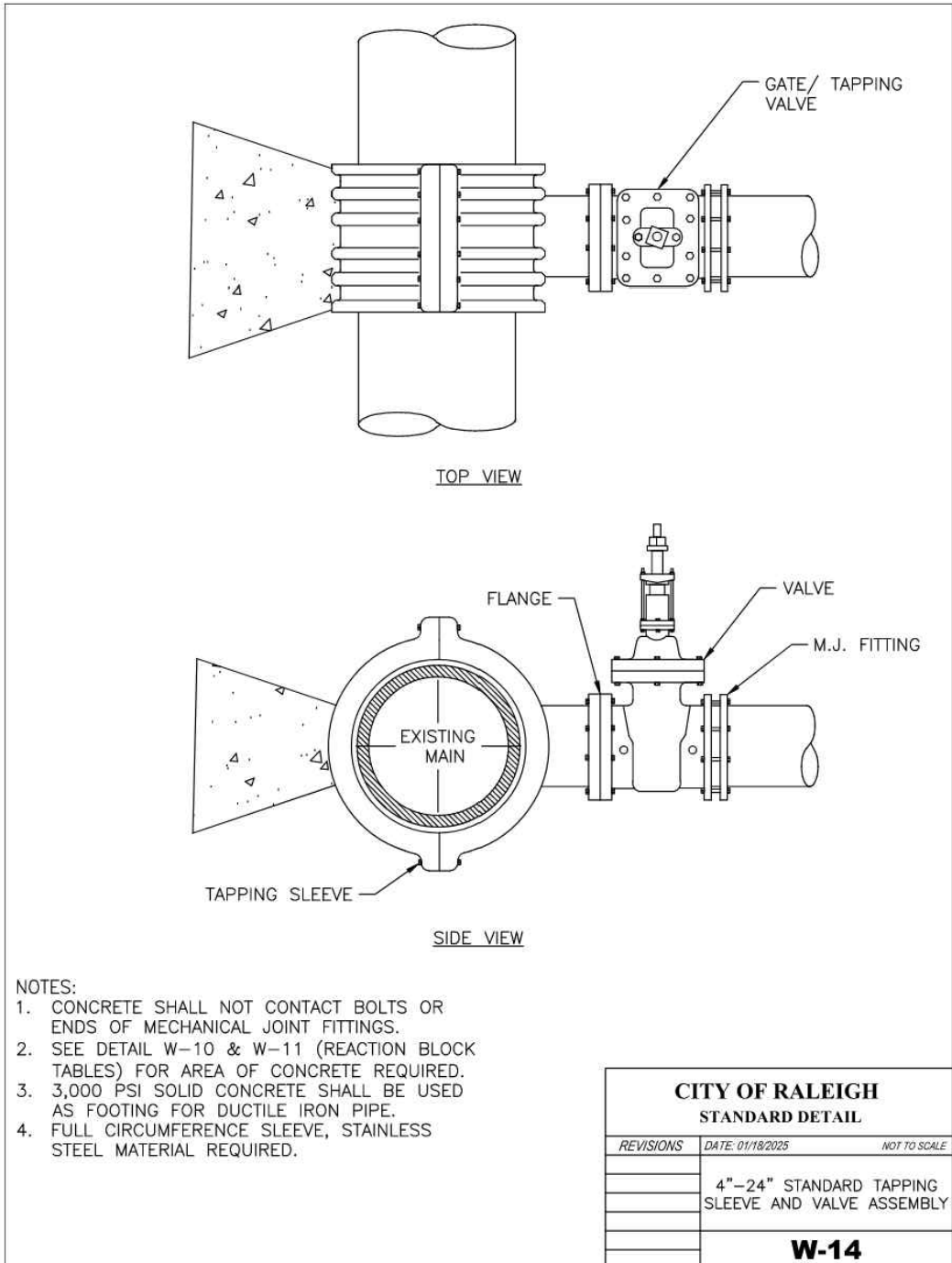
ISOMETRIC

PLAN VIEW

ELEVATION

NOTES:

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- TRASH RACK SHALL BE ALUMINUM 48" SQUARE TOP-MOUNT HINGED TRASH RACK, MODEL L50-48 HINGED BY TRASH



CLH DESIGN, P.A.
 400 Regency Forest Drive
 Suite 120
 Cary, North Carolina 27518
 Phone: (919)319-6716
 Fax: (919)319-7516
 LA: C-106, PE: C-1595



**ZEBULON
PUBLIC SAFETY
STATION**
201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

UTILITY DETAILS

DATE 07-18-2025

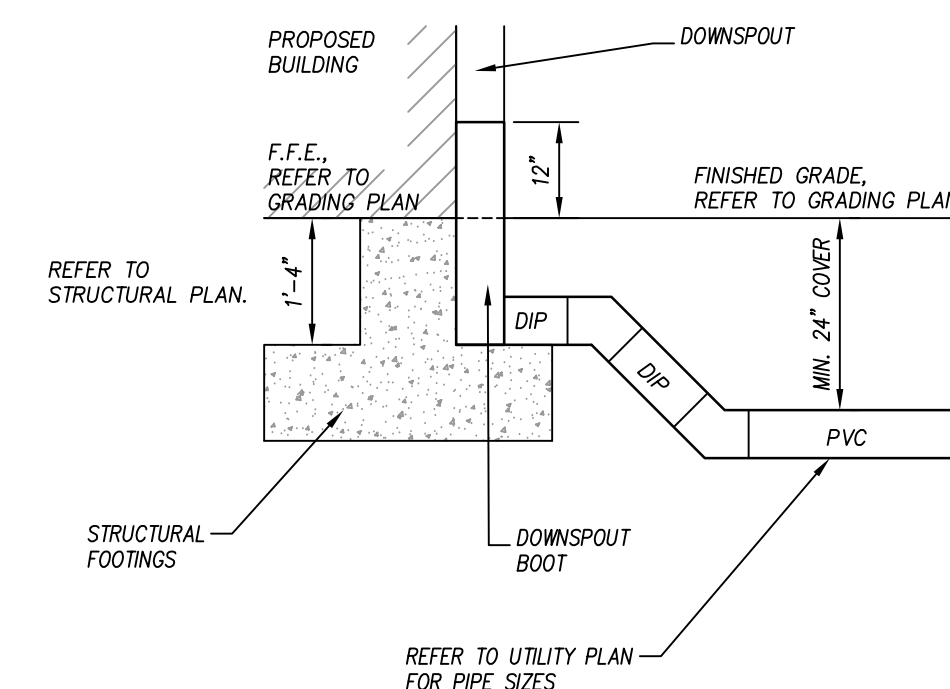
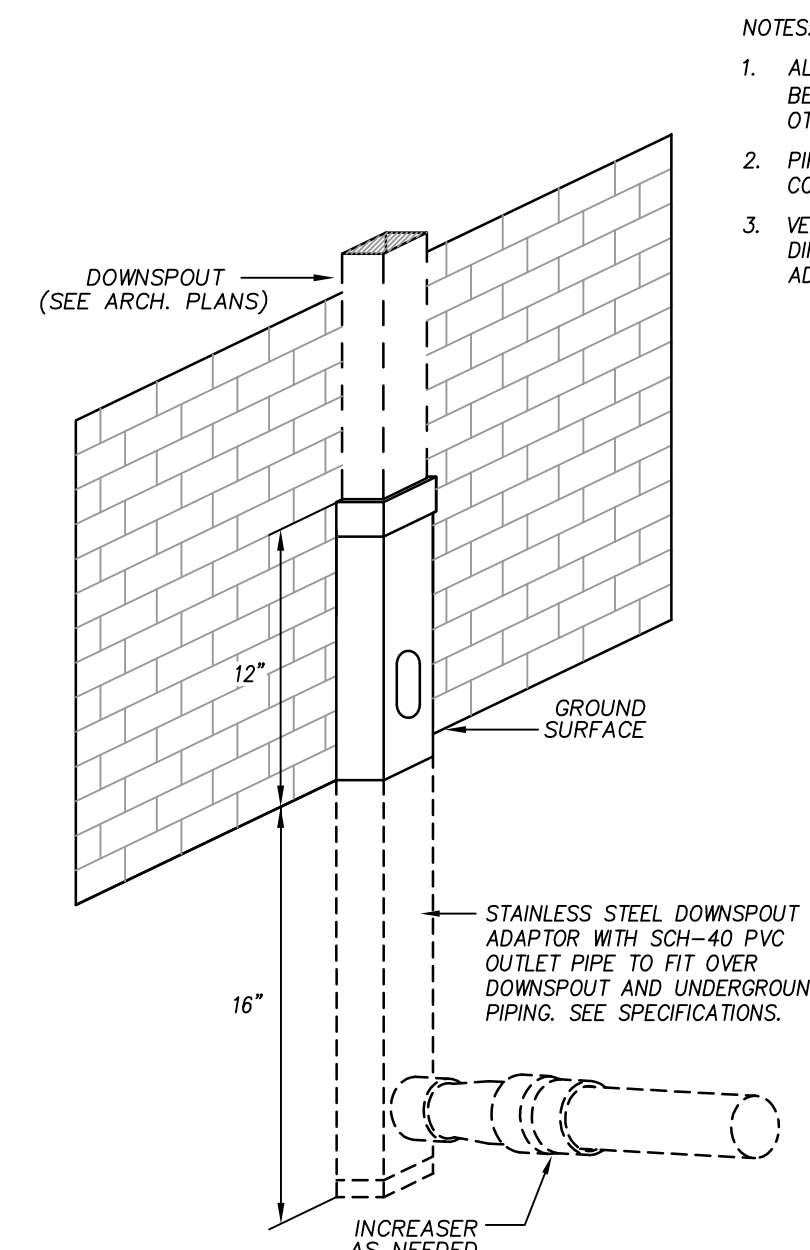
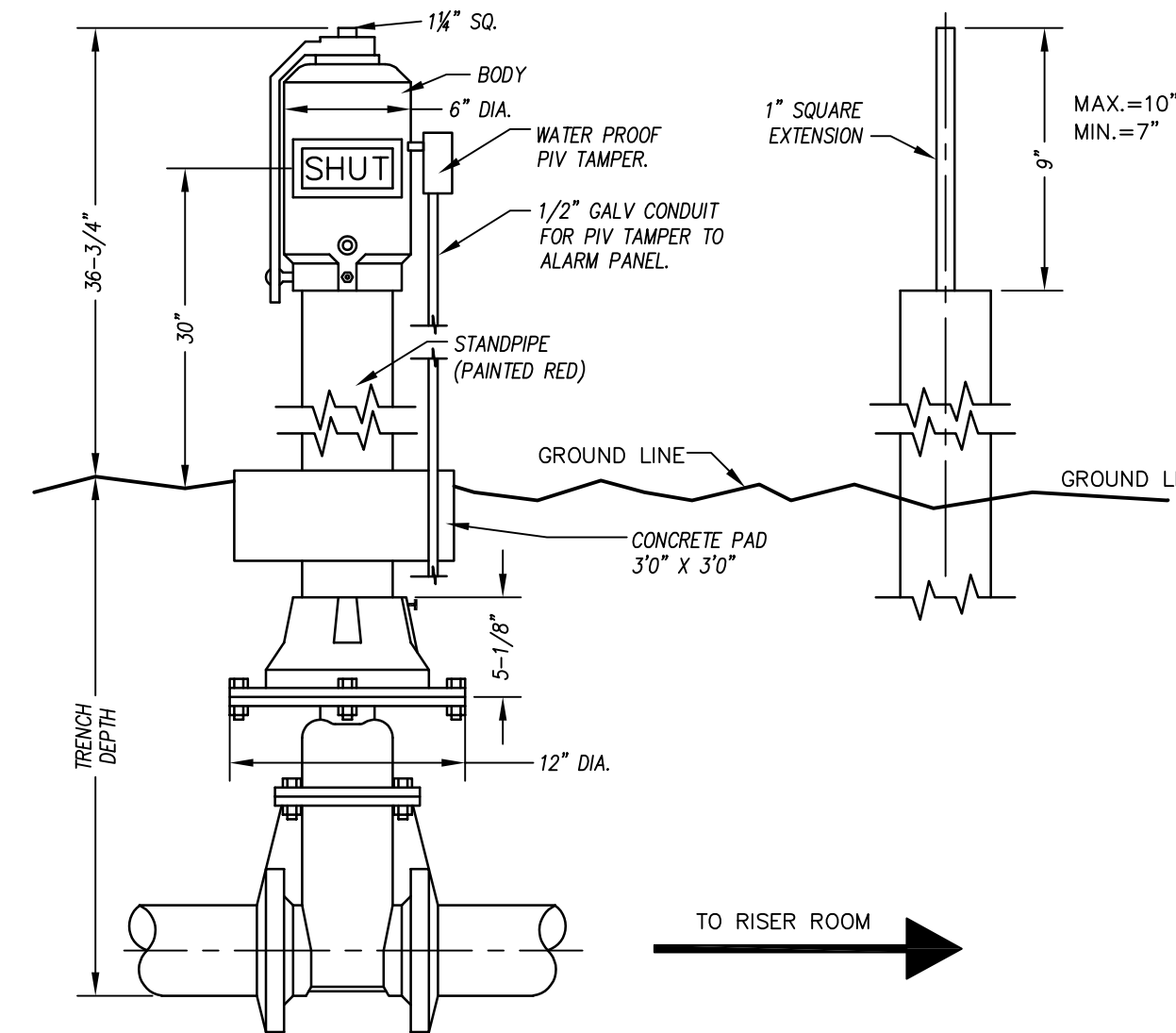
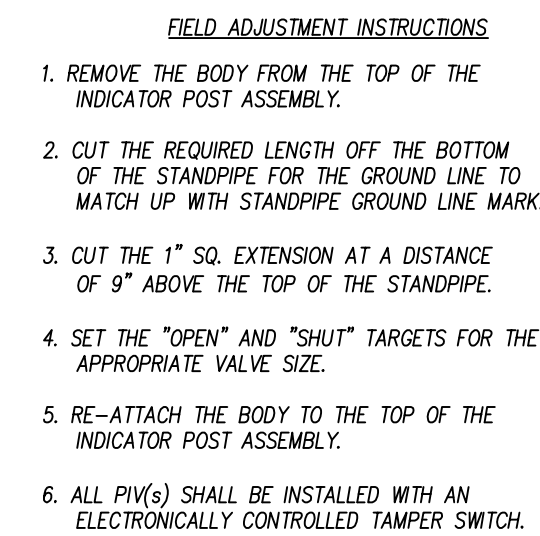
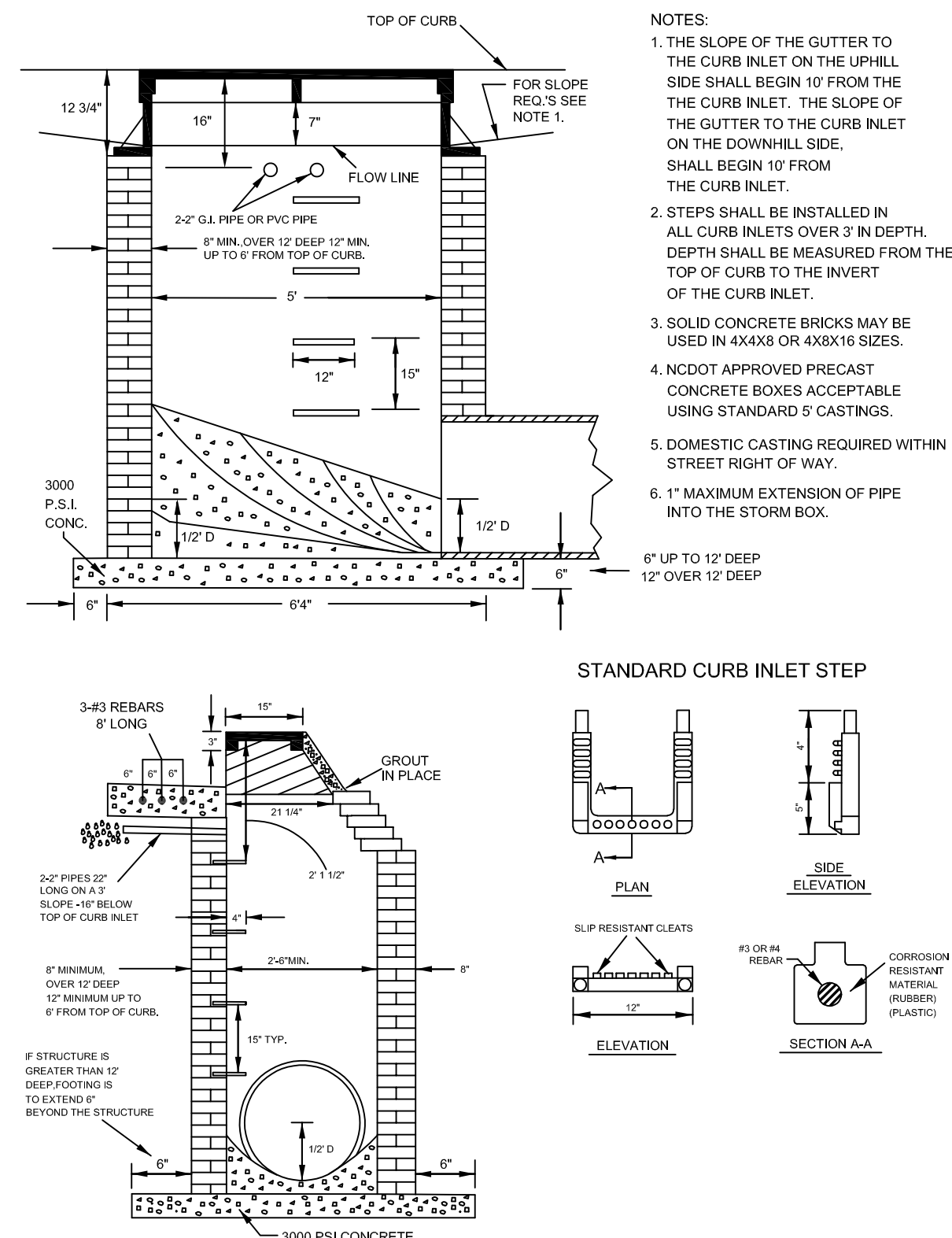
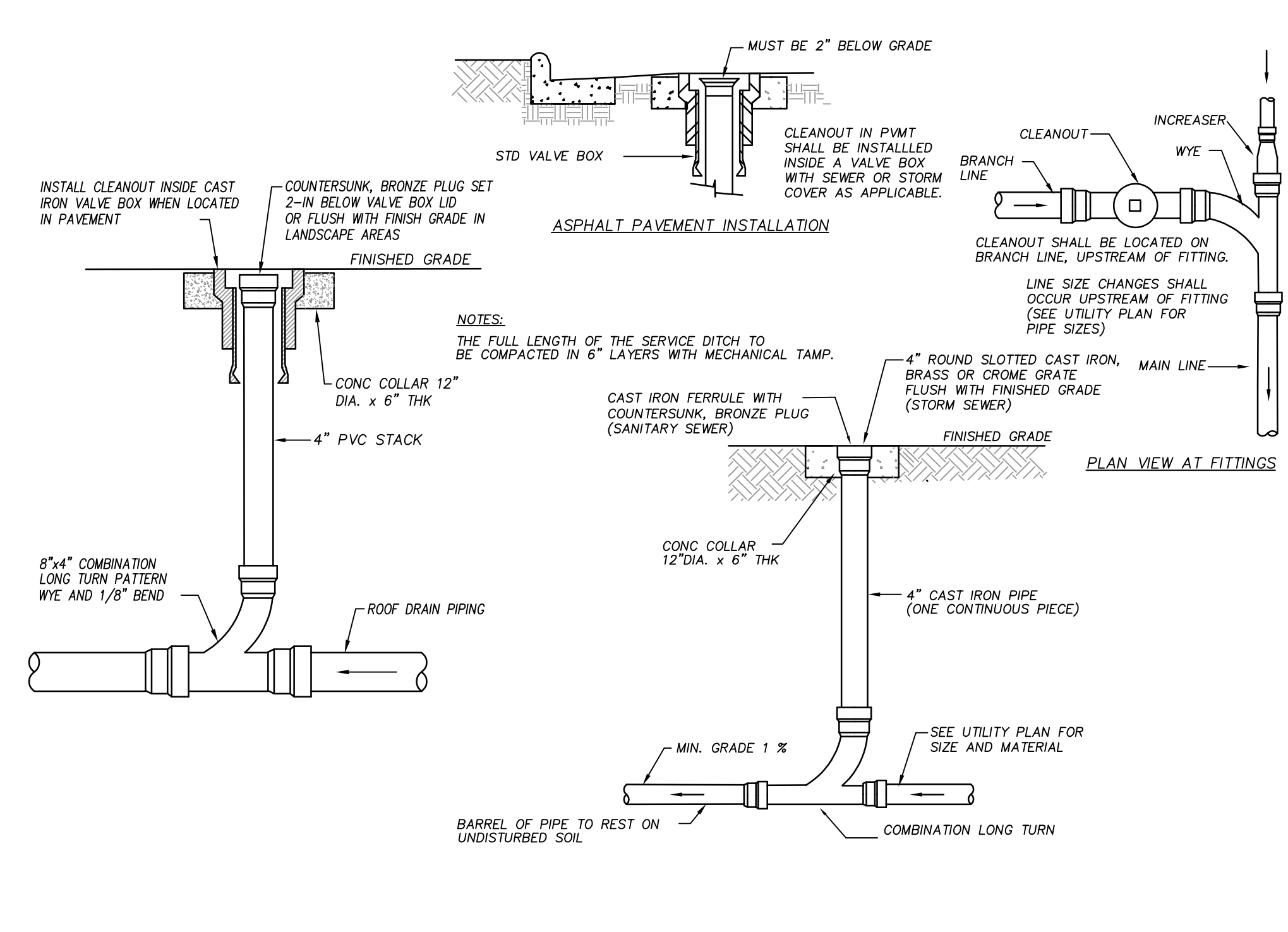
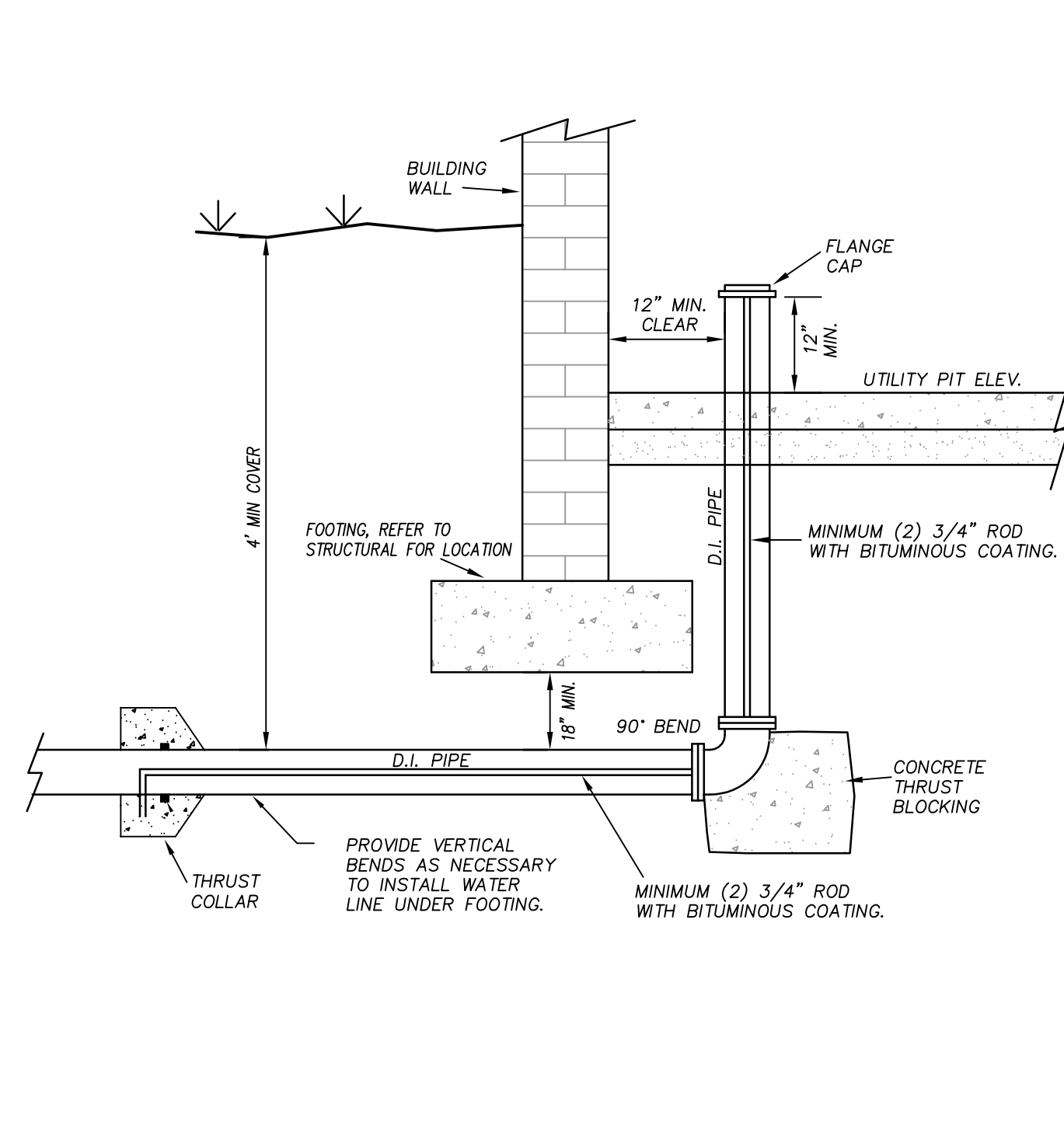
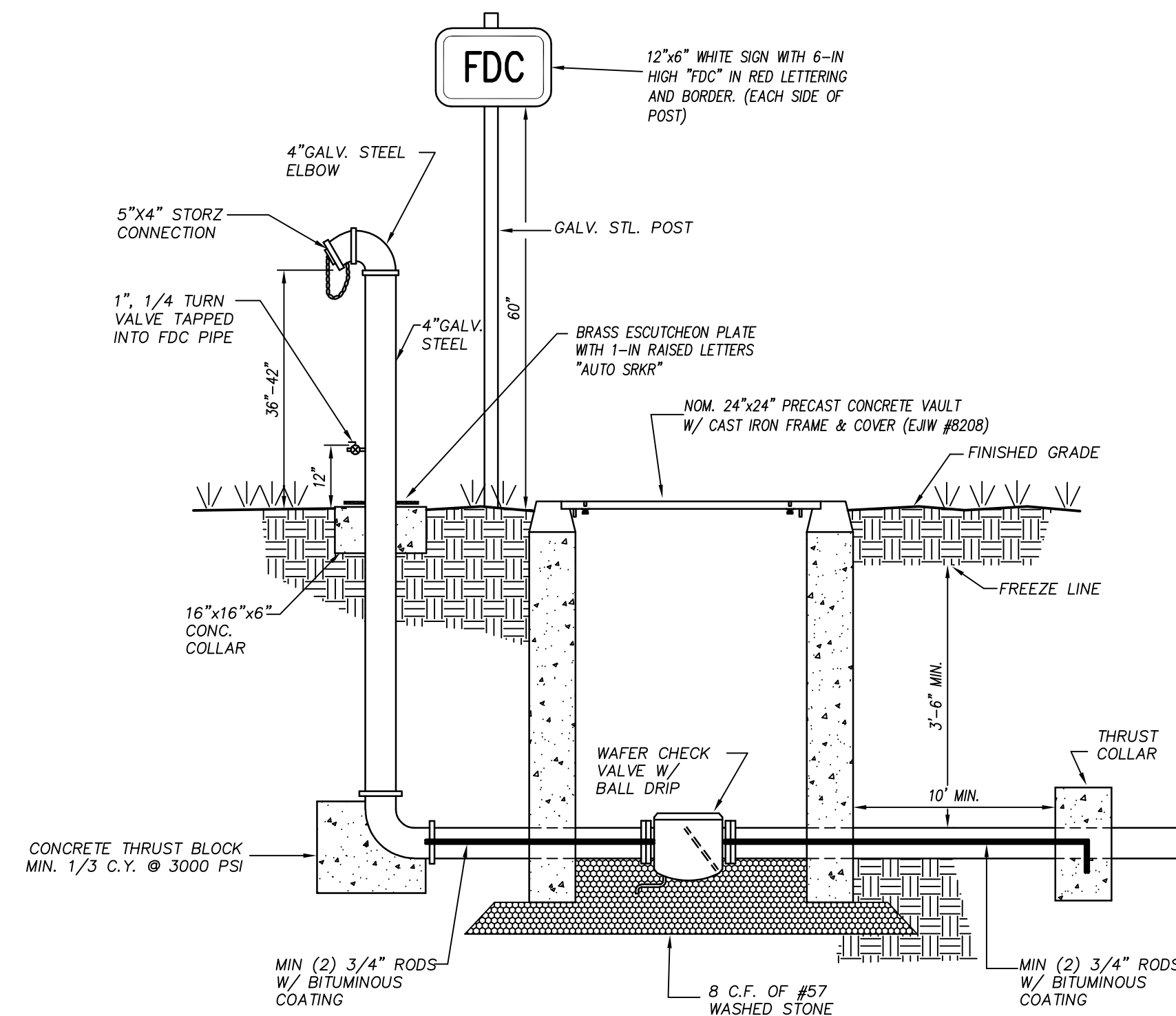
CLH PROJECT NO 22-154

REVISIONS		
NO	DATE	DESCRIPTION:
1	5/30/25	ADDENDUM #1

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SHEET NUMBER

C802



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

UTILITY DETAILS

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CLH PROJECT NO 22-154

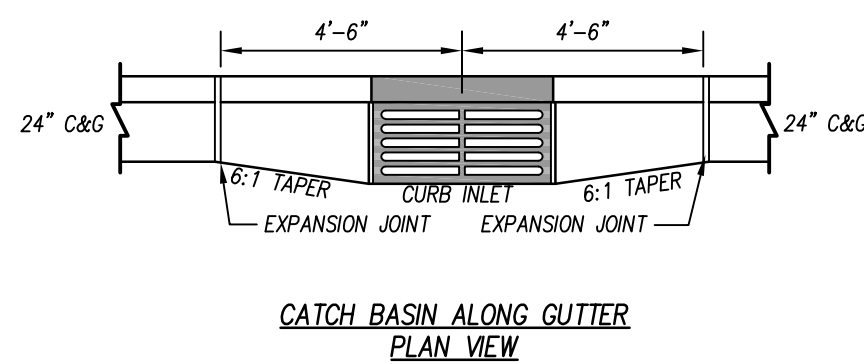
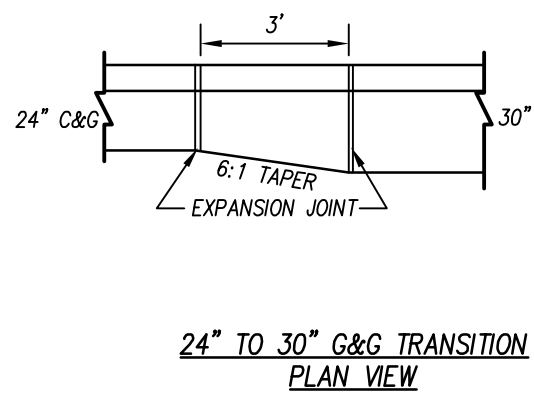
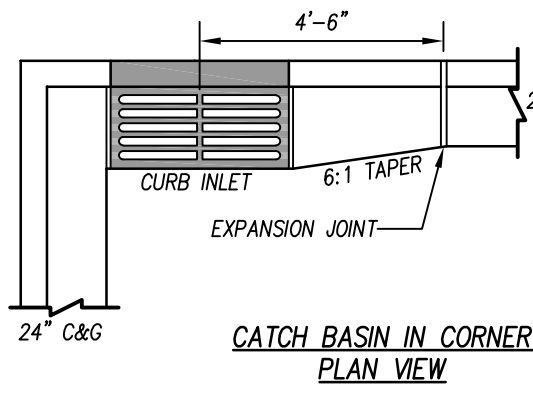
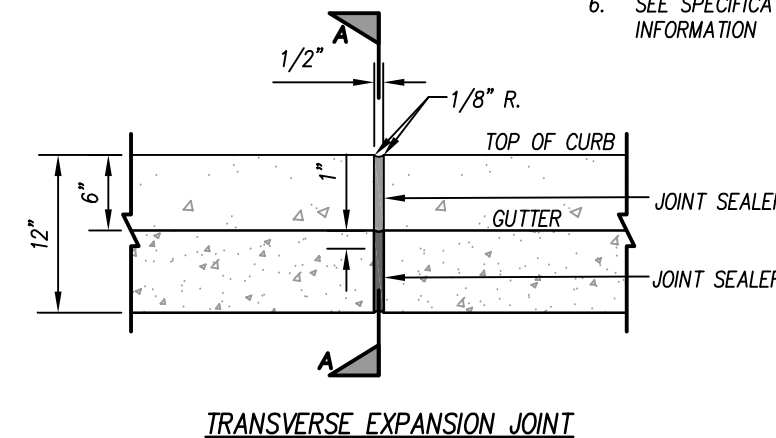
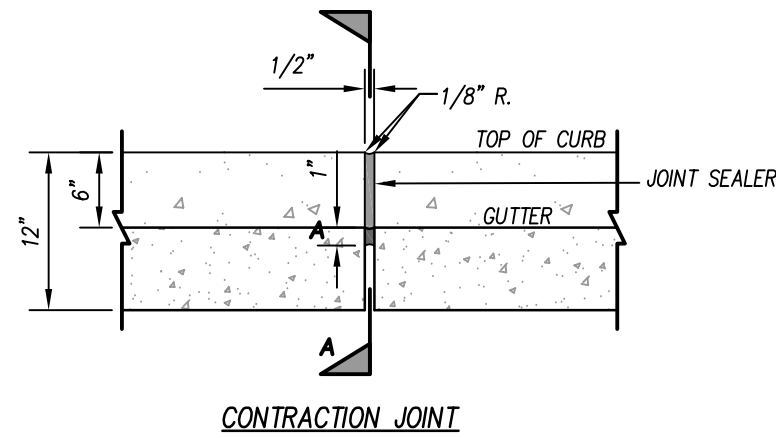
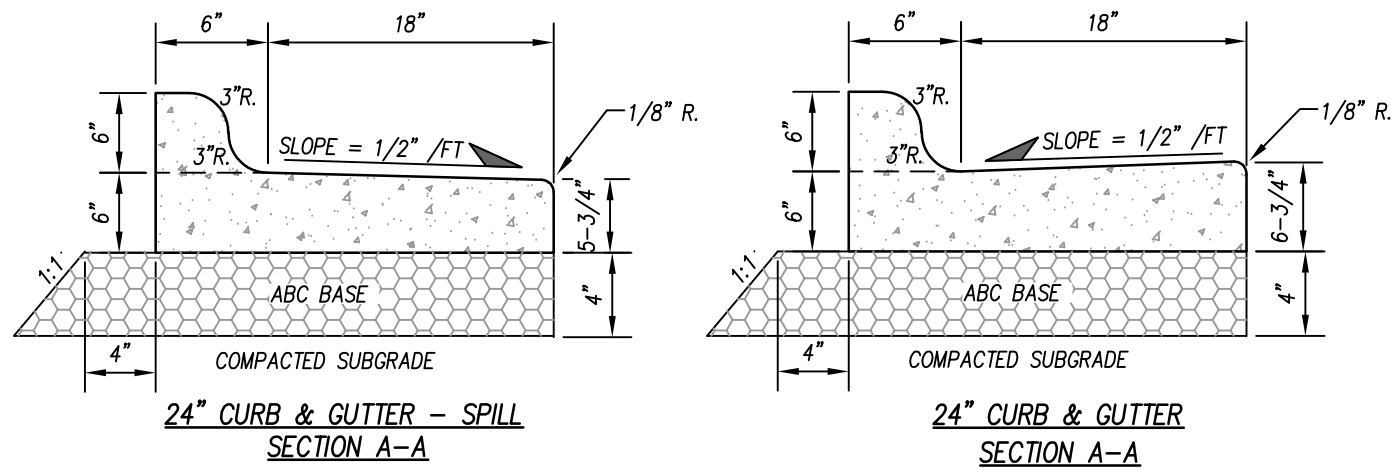
REVISIONS

NO	DATE	DESCRIPTION:
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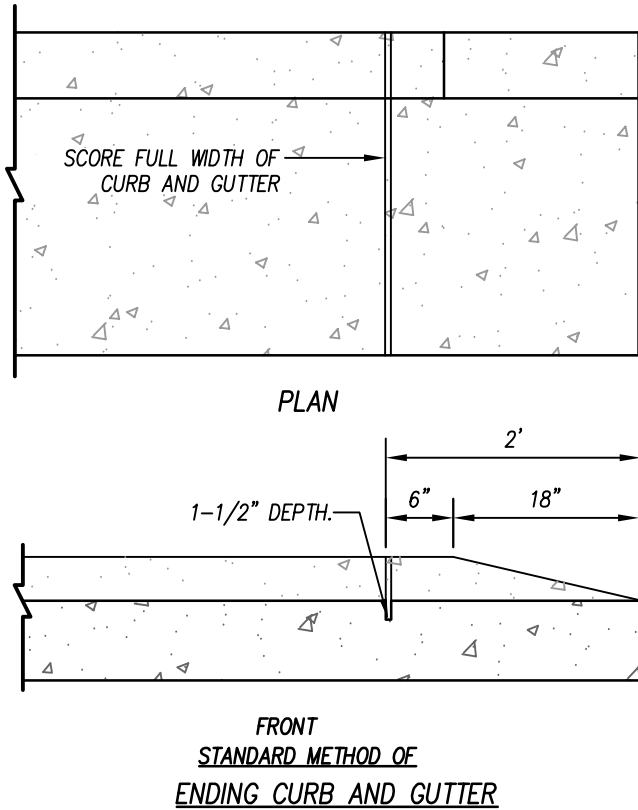
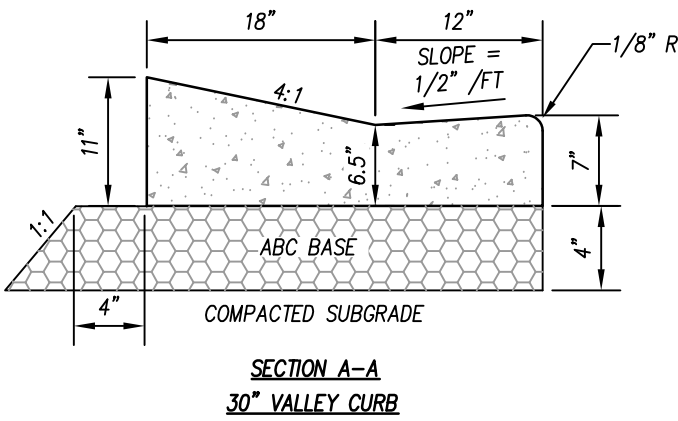
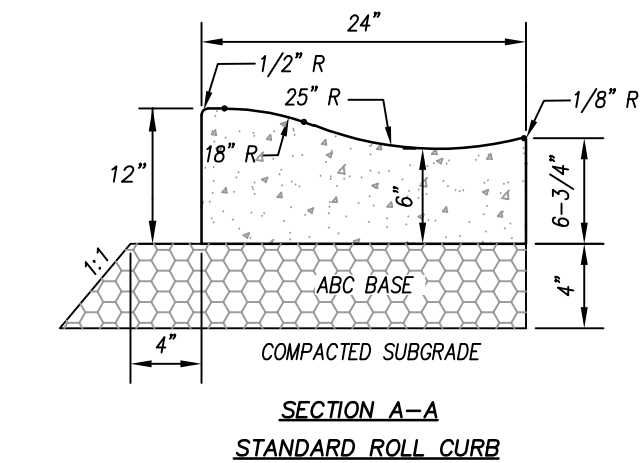
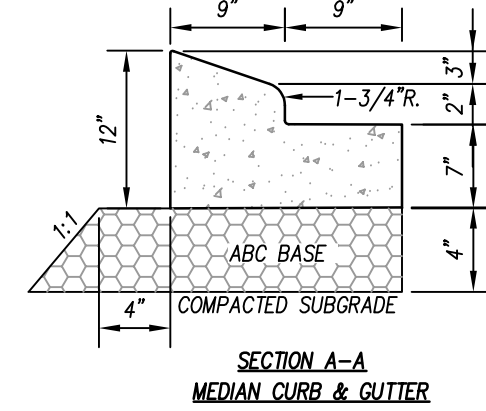
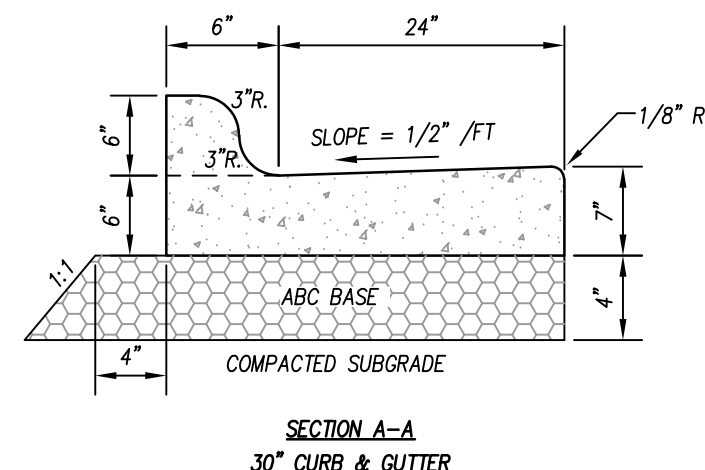
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SHEET NUMBER

C803



- CURB AND GUTTER NOTES:**
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
 2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
 3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
 4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
 5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
 6. SEE SPECIFICATION SECTION 32.13.13 FOR ADDITIONAL INFORMATION.



		LIGHT DUTY ASPHALT	HEAVY DUTY ASPHALT
SURFACE COURSE	TYPE S-9.5C 3"	TYPE S-9.5C 1.5"	TYPE S-9.5C 1.5"
BINDER COURSE	-	TYPE I-19.0C 3"	
AGGREGATE BASE COURSE	6"	10"	
COMPACTED SUBGRADE	*TWO LIFTS		

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.

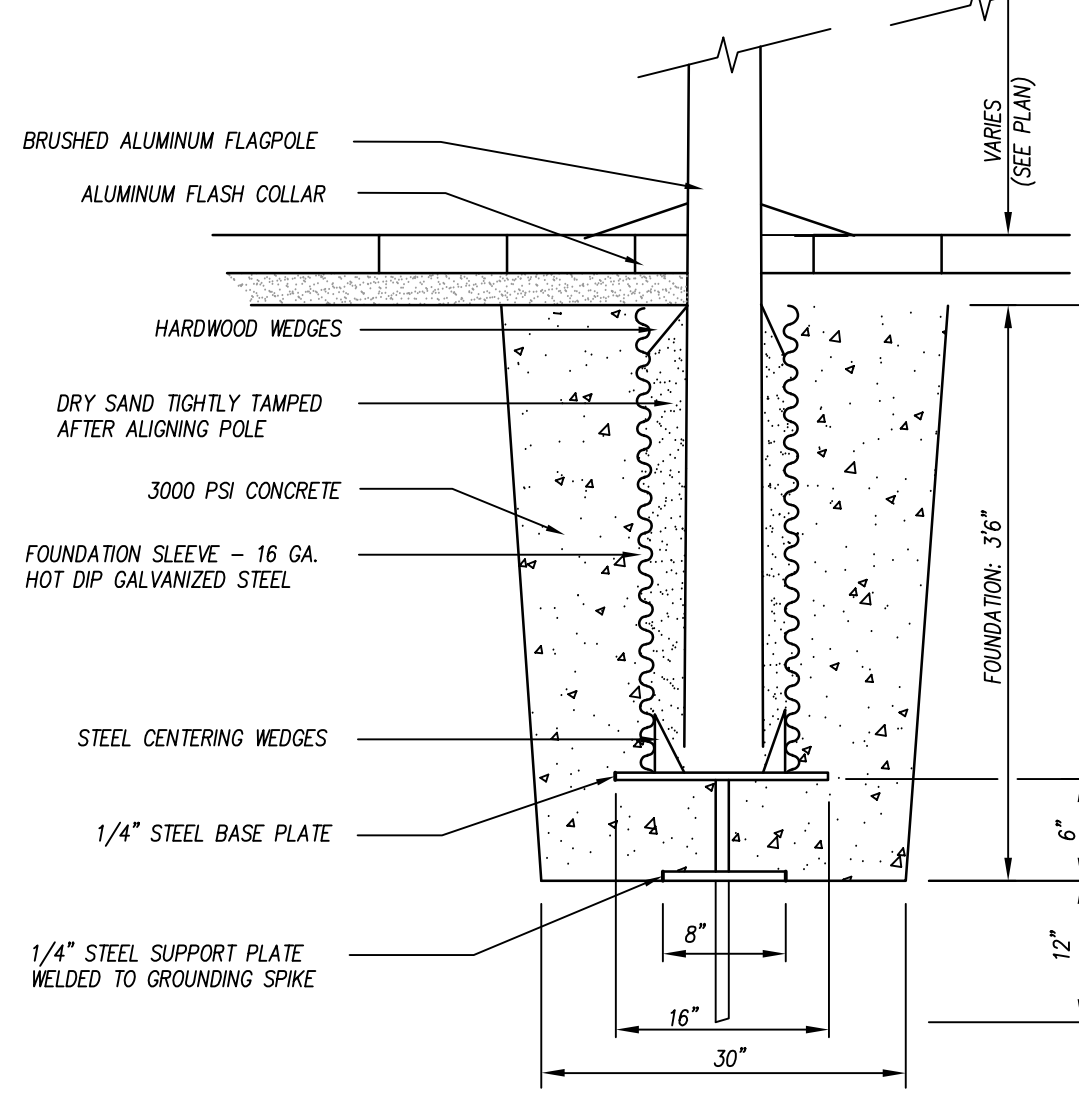
PAVEMENT SECTIONS

N.T.S.

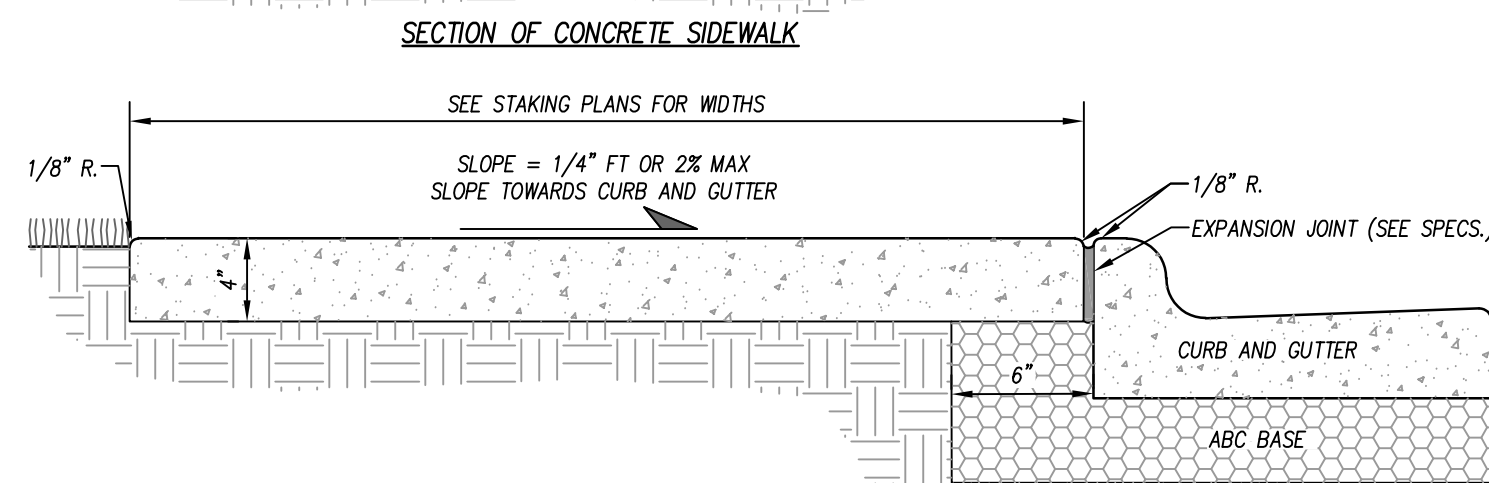
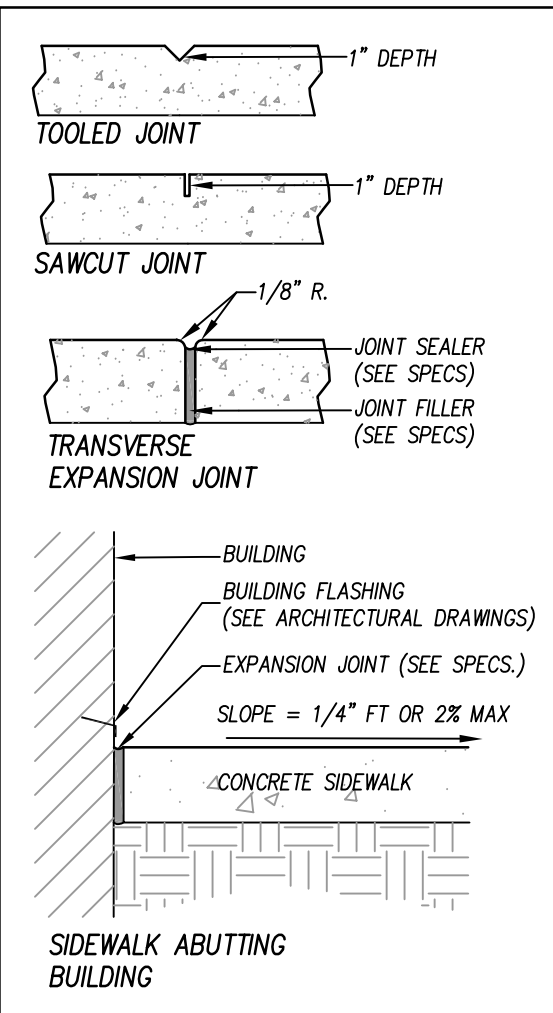
FLAG POLE BASE DETAIL

N.T.S.

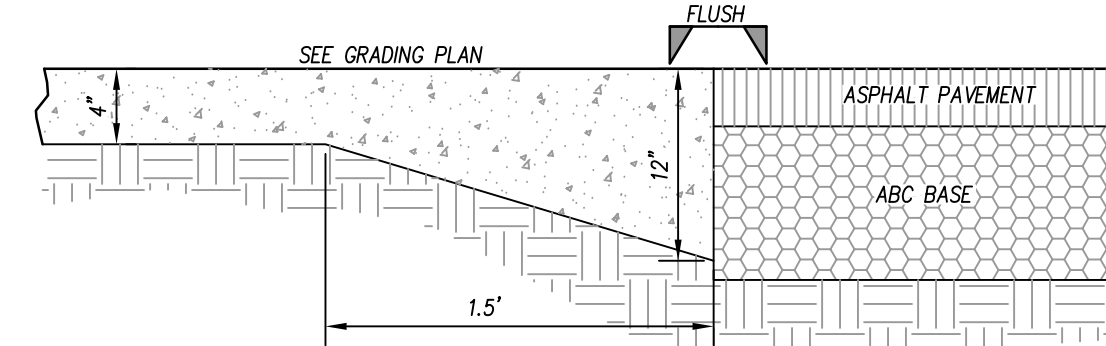
- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO THE SITE PLANS FOR FINAL HEIGHTS OF THE FLAG POLES.



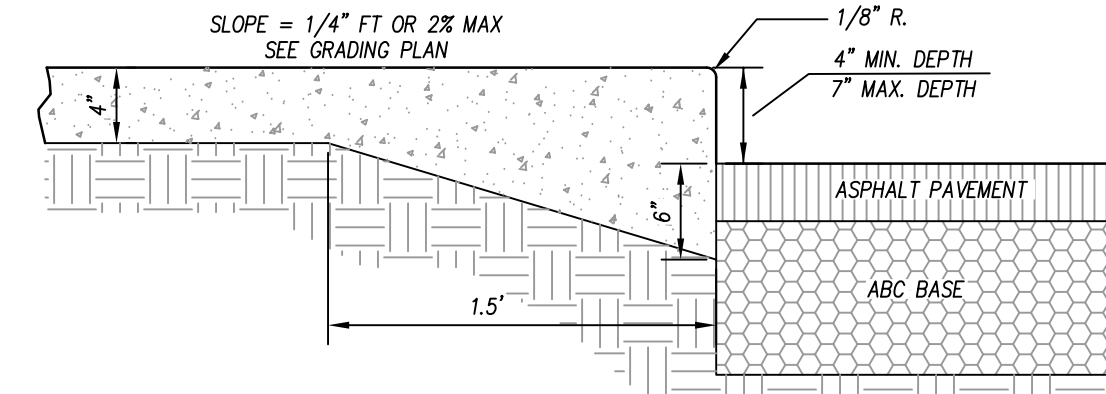
- GENERAL NOTES:**
1. PROVIDE GROOVE CONTROL JOINT 1.5-IN DEEP WITH 1/8-IN RADI IN EDGING AT 10' INTERVALS UNLESS INDICATED OTHERWISE.
 2. PROVIDE 1/2-IN WIDE EXPANSION JOINT AT 50' INTERVALS AND WHERE EDGING ABUTS ANY RIGID PAVEMENT AND/OR STRUCTURE.
 3. ALL CONCRETE SHALL BE 4,000 P.S.I.
 4. SURFACE SHALL RECEIVE FINE BROOM FINISH.



SECTION OF CONCRETE SIDEWALK ABUTTING CURB AND GUTTER



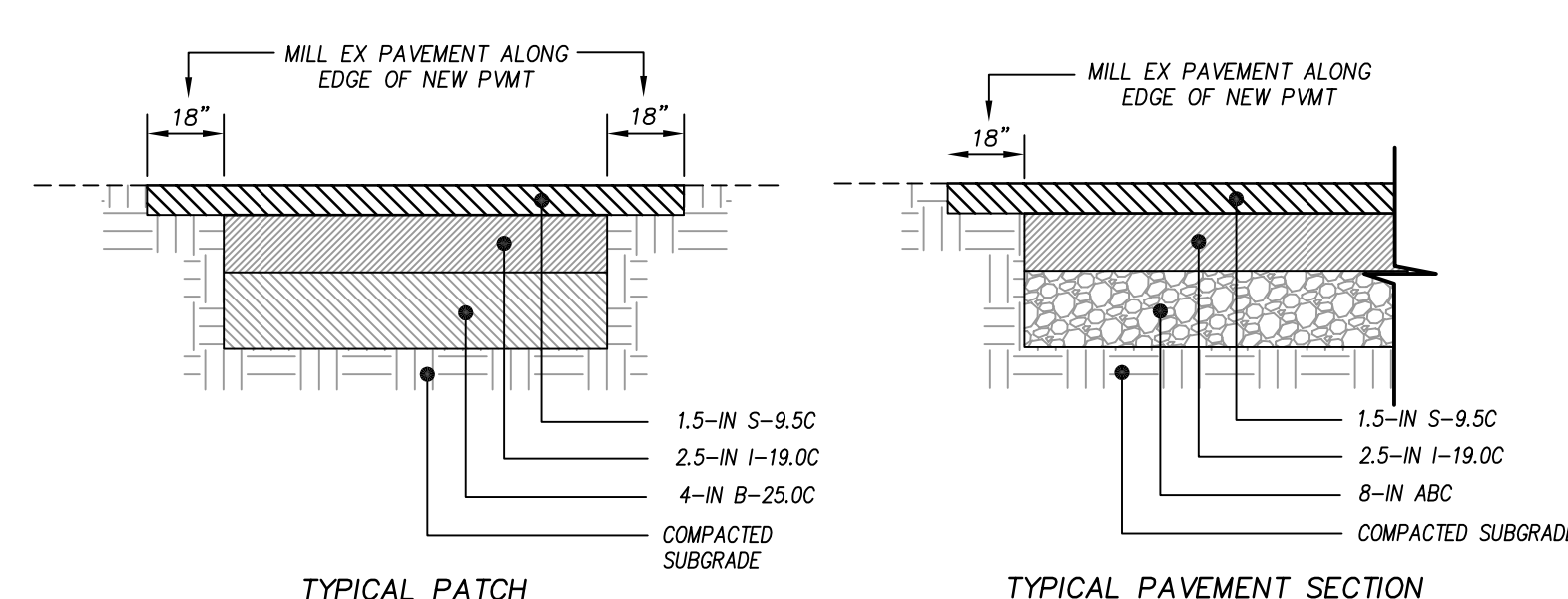
SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH



SECTION OF SIDEWALK ABUTTING PAVEMENT

CONCRETE SIDEWALK

N.T.S.



TYPICAL PATCH

TYPICAL PAVEMENT SECTION

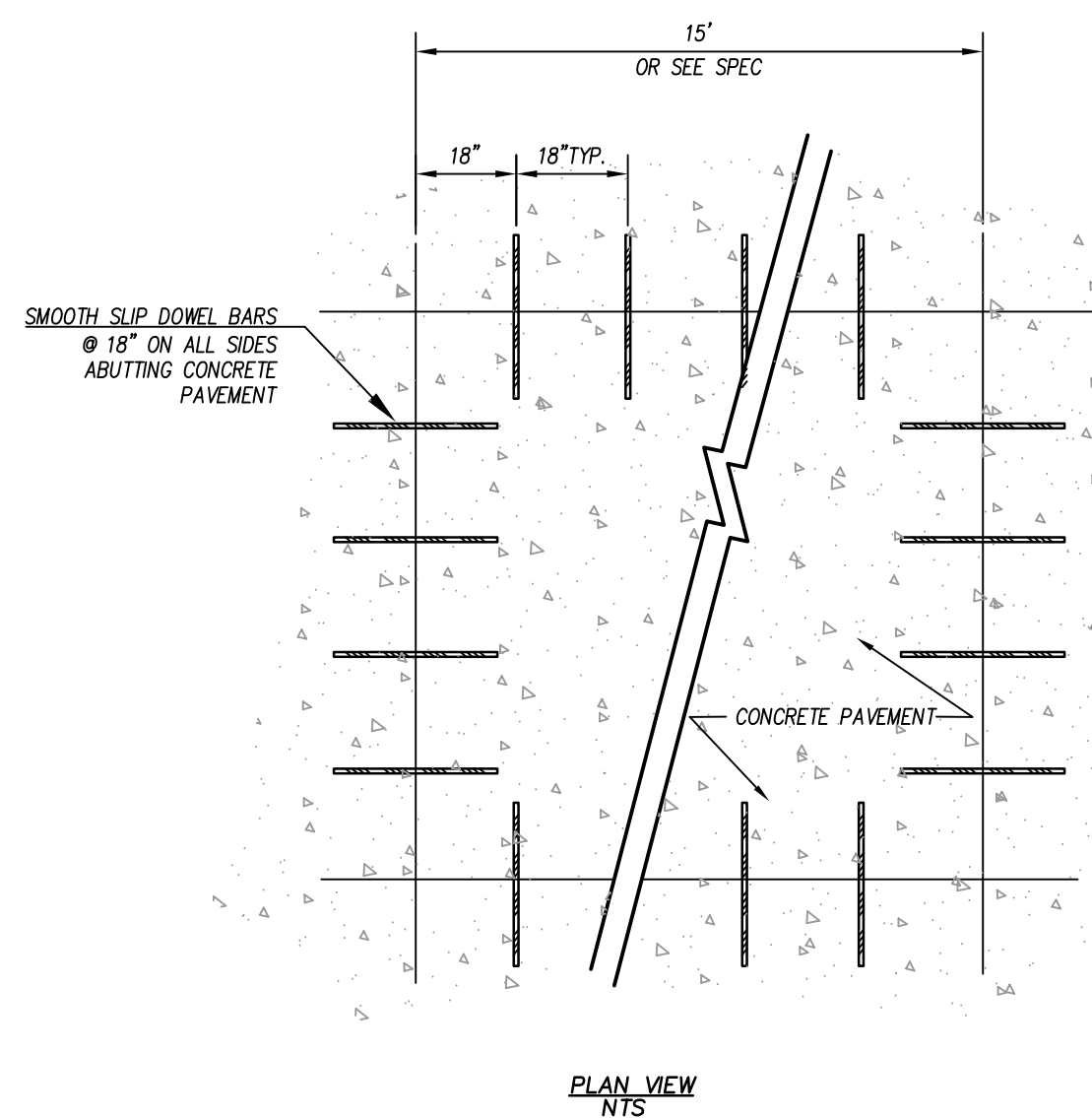
- NOTES:**
1. ASPHALT PATCH SECTION SHALL BE INSTALLED WHERE PAVEMENT WIDTH IS LESS THAN 6'-0".
 2. SEE EARTH MOVING AND ASPHALT PAVEMENT SPECIFICATIONS FOR PROOF-ROLLING, COMPACTION & TESTING REQUIREMENTS.
 3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE 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.
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ASPHALT PATCH

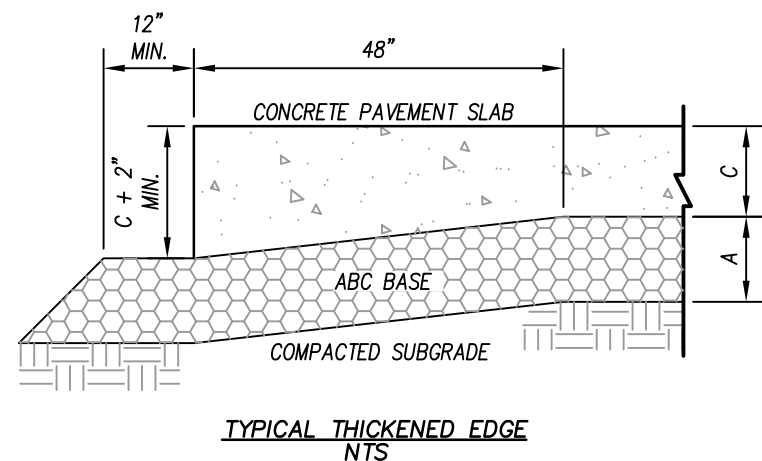
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CURB AND GUTTER

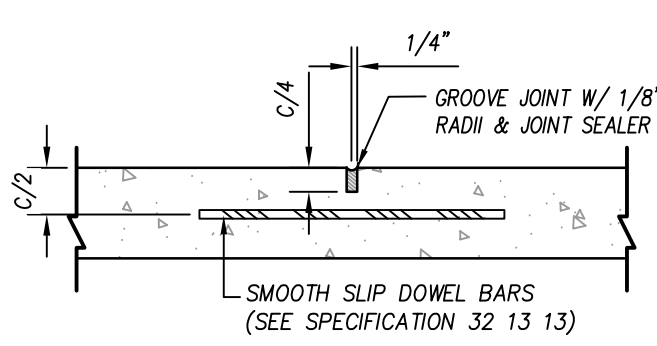
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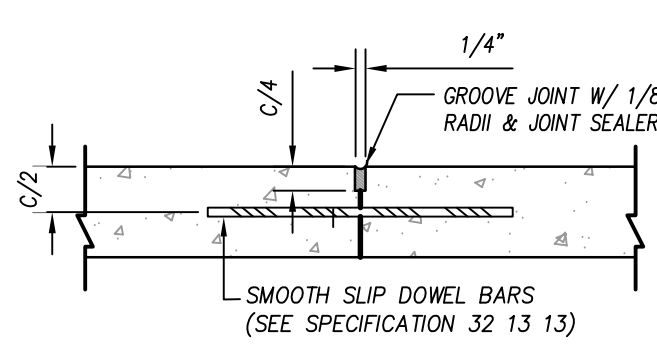
CONCRETE PAVEMENT DIMENSIONS	
CONC SLAB THICKNESS, C	8-IN
ABC THICKNESS, A	4-IN
DOWEL DIAMETER	SEE SPECS



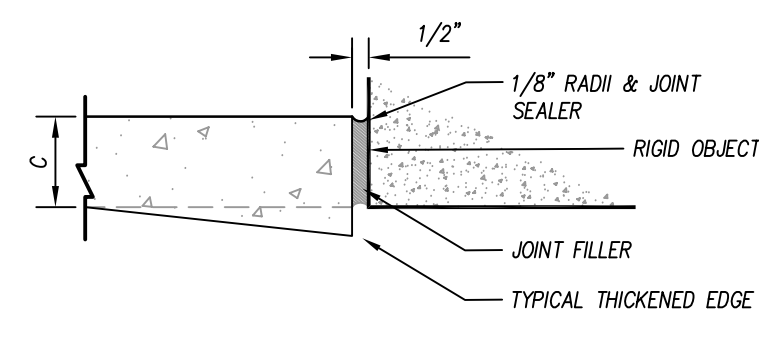
TYPICAL THICKENED EDGE



TYPICAL CONTRACTION JOINT



TYPICAL CONSTRUCTION JOINT



TYPICAL ISOLATION JOINT

- NOTES:**
1. ALL CONCRETE SHALL BE OF NCDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
 2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32.13.13.
 3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 4. JOINTS IN CURB & GUTTER SHALL BE ALIGNED WITH JOINTS IN ADJOINING CONCRETE PAVEMENT.
 5. JOINTING PLAN DEVELOPED BY CONTRACTOR IN ACCORDANCE WITH ACI-330R-08 SHALL BE APPROVED BY SITE DESIGN ENGINEER PRIOR TO POURING SLAB.

HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS)

N.T.S.

adwarchitects
environmentsforlife

architecture planning interiors

2815 COLISUEM CENTRE DRIVE
SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P 704 379 1919
F 704 379 1920
www.adwarchitects.com

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400 Regency Forest Drive
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PUBLIC SAFETY
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CONSTRUCTION DOCUMENTS

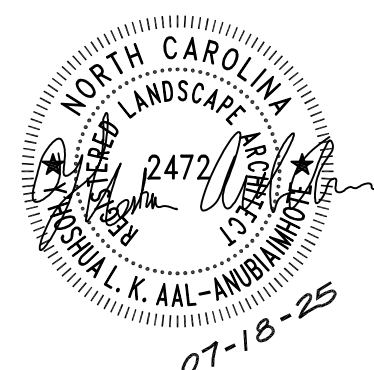
STAKING DETAILS

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:
1 5/30/25 ADDENDUM #1

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SHEET NUMBER

C901

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER.

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

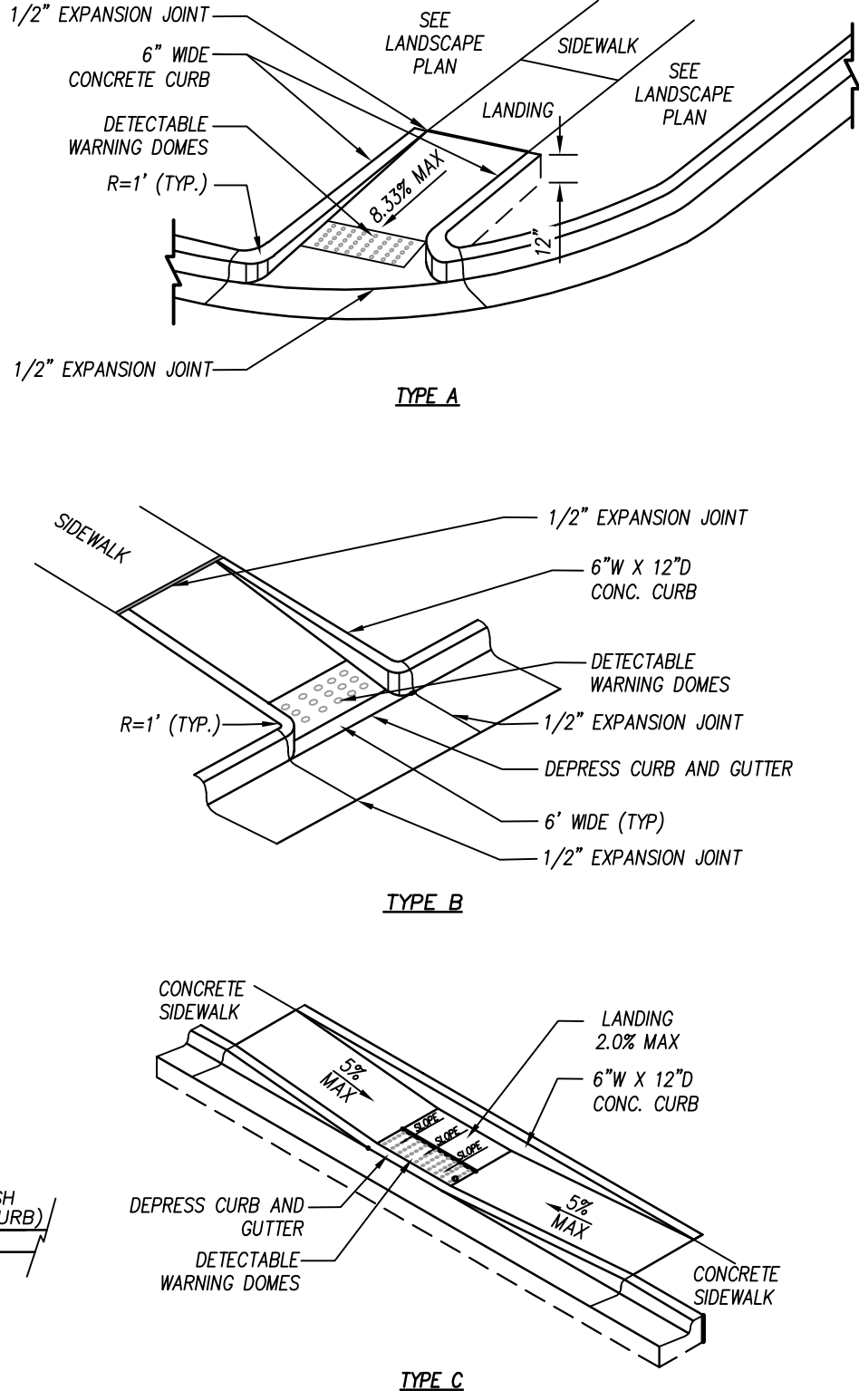
SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

DOMES SUBMITTAL SHALL BE SUBMITTED TO DESIGN TEAM PRIOR TO INSTALLATION. COLOR SHALL BE YELLOW UNLESS OTHERWISE NOTED.

W	A	W+A+S	X	B
5'	0.0'	5.8'	5.8'	5.0'
6'	0.0'	6.8'	6.8'	6.0'
7'	0.0'	7.8'	7.3'	6.5'
8'	0.0'	8.8'	7.3'	6.5'
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
6'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

$B = X - (A + S)$
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.

* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



ACCESSIBLE CURB RAMPS

N.T.S.

NOTES:

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER.

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

ALL DIMENSIONS ARE FROM FACE OF CURB

ACCESSIBLE STALL WIDTH AND LENGTH AS SHOWN. NO ACCESSIBLE STALL SHALL BE LESS THAN 8' WIDE.

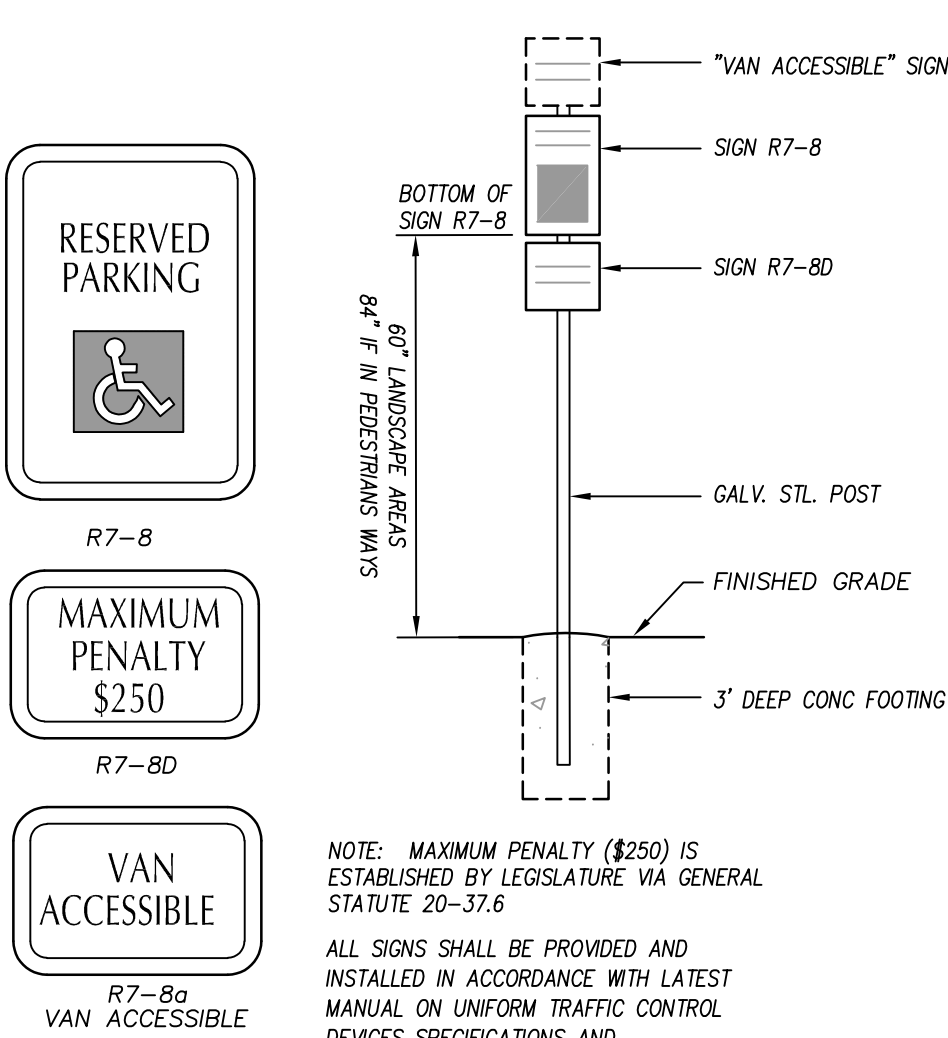
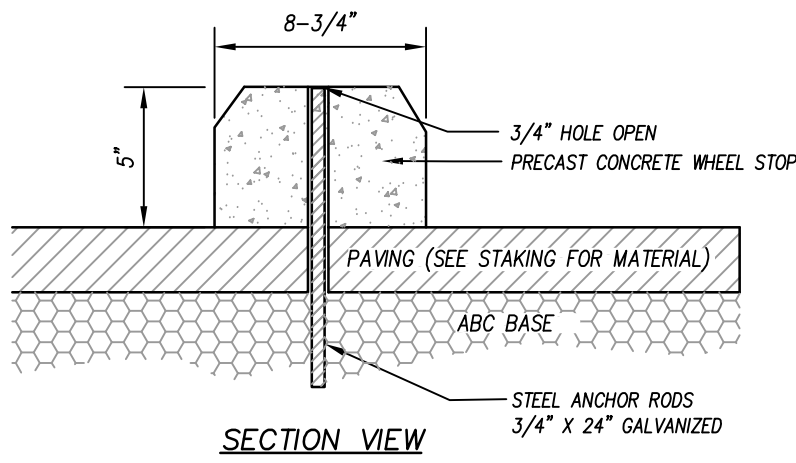
ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAN 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE.

CONTRACTOR IS RESPONSIBLE FOR MARKING OUT ACCESSIBLE STALL TO ENSURE THEY MEET CODE. ANY DEFICIENCIES SHALL BE REPAIR AT THE CONTRACTORS EXPENSE.

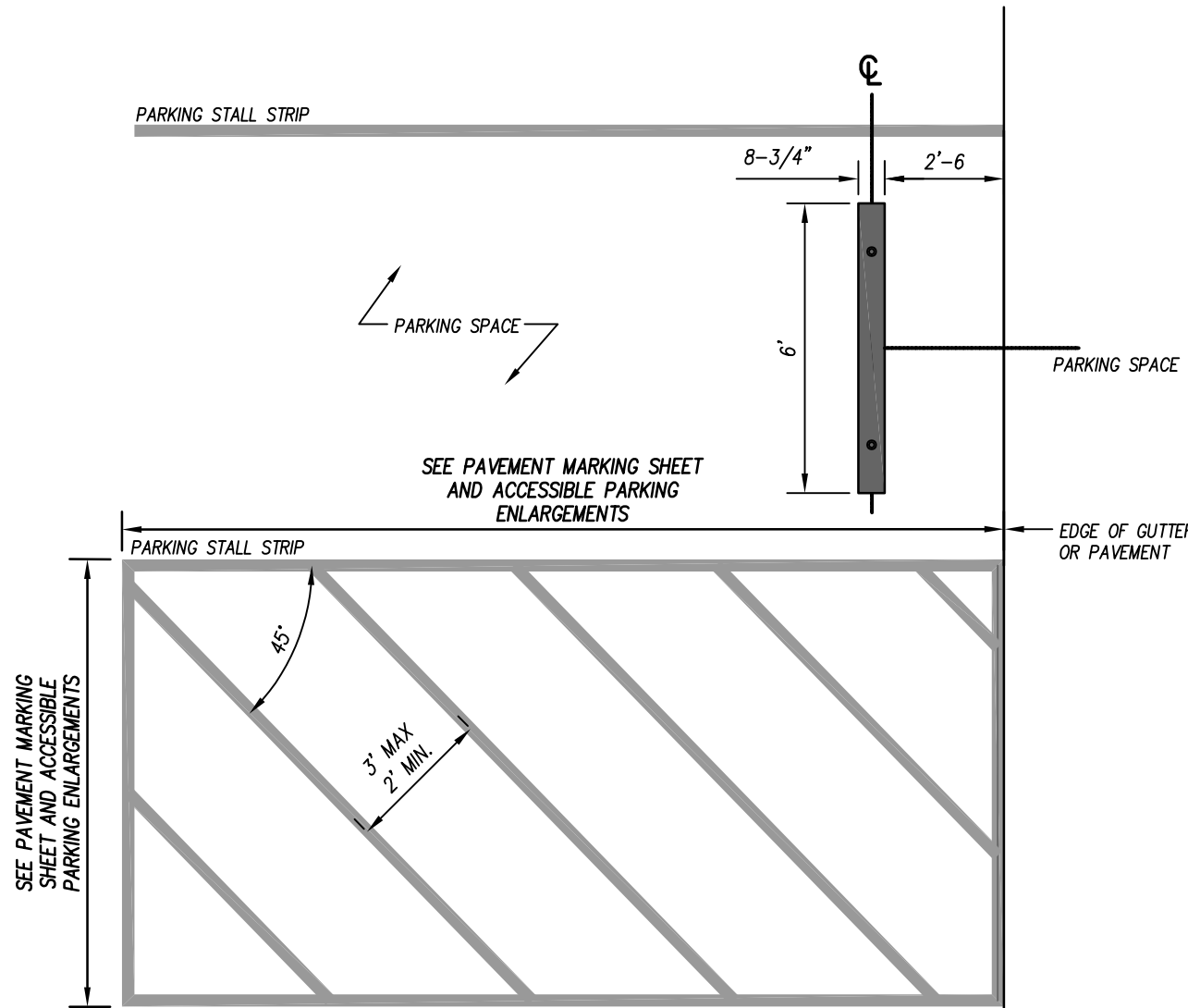
NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%.

PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CRETE SURFACES



ACCESSIBLE PARKING SIGNAGE



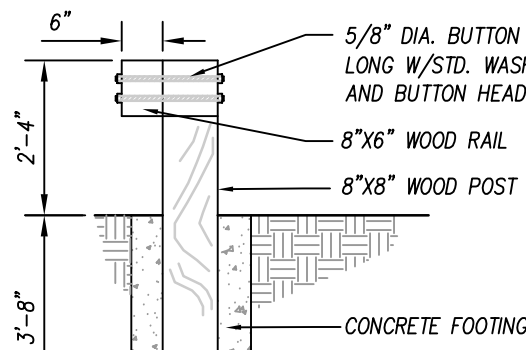
ACCESSIBLE STALL STRIPING AND 90° PARKING SPACE PLAN VIEW

N.T.S.

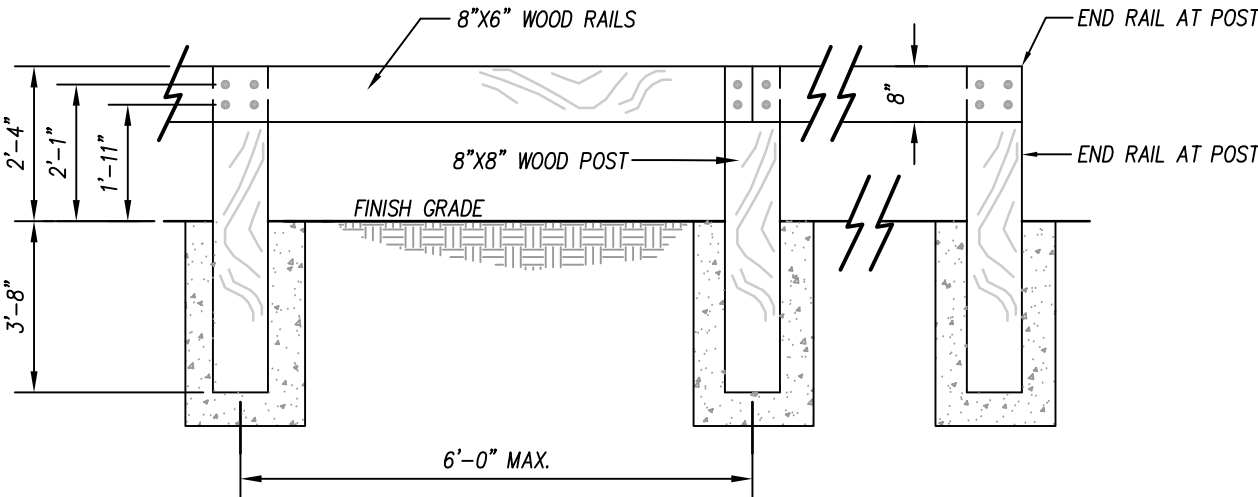
NOTES:

1. ALL WOOD SHALL BE NO.2 CCA PRESSURE TREATED YELLOW PINE

2. ALL HARDWARE SHALL BE GALVANIZED, PER ASTM A153.



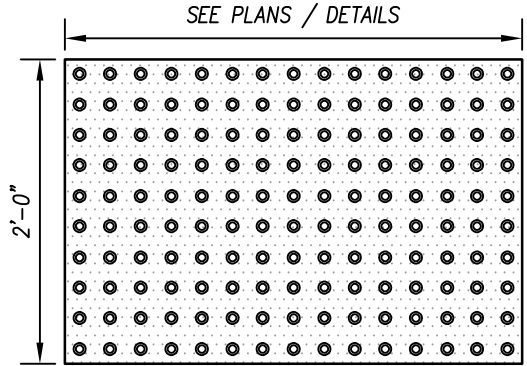
SIDE ELEVATION



FRONT ELEVATION

TRAFFIC GUARDRAIL

N.T.S.

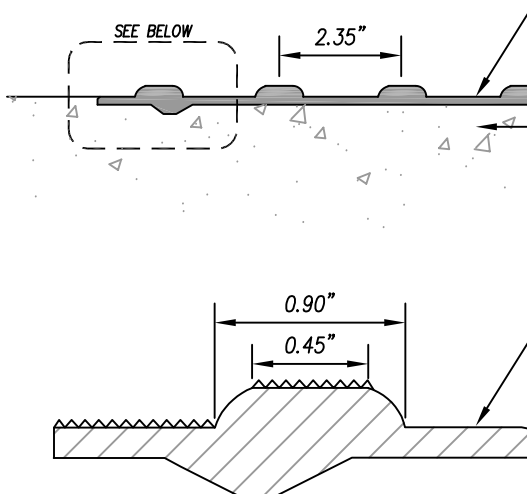


NOTES:

DOMES SHALL BE YELLOW OR PER LOCAL CODE.

WARNING DOMES MUST BE FULLY COMPLIANT WITH THE AMERICAN WITH DISABILITIES ACT (ADA).

INSTALLATION PER MANUFACTURE.



DETECTABLE WARNING DOMES

N.T.S.

BIKE RACK:

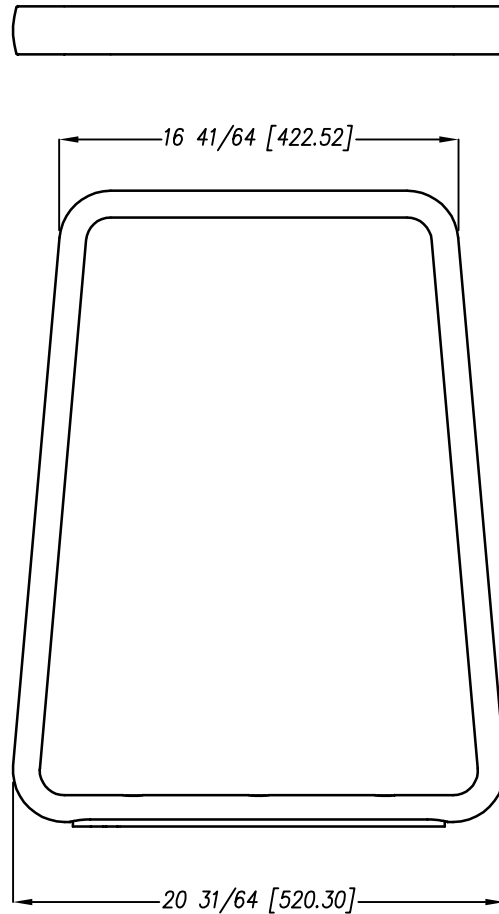
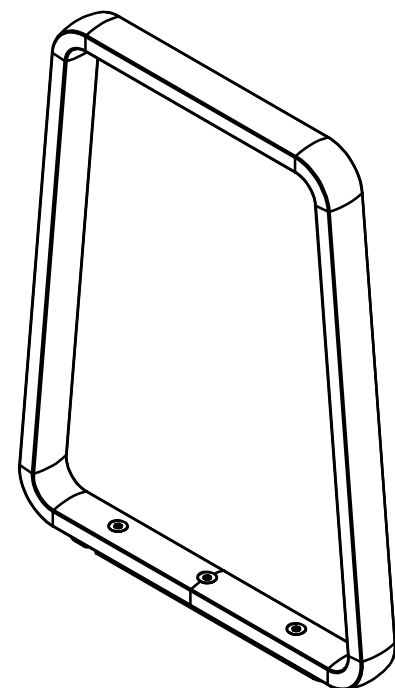
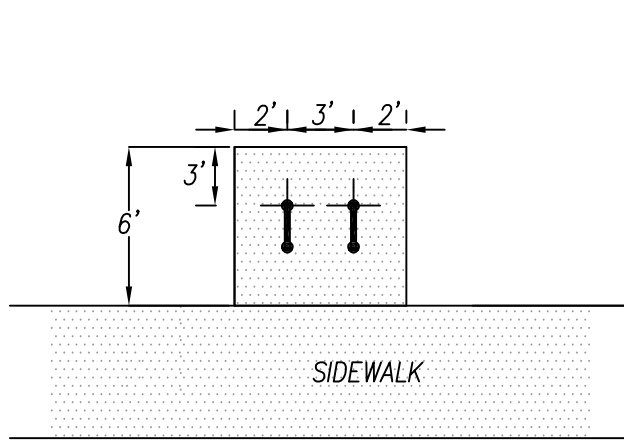
1. MAGLIN ICONIC BIKE RACK 2300 SERIES OR APPROVED EQUAL.

2. COLOR: BLACK.

3. INSTALLATION: SURFACE MOUNT AS PER MANUFACTURER'S RECOMMENDATION.

4. QUANTITIES SHOWN ON SITE PLAN REPRESENT NUMBER OF HOOPS.

5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



BIKE RACK DETAIL

N.T.S.

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ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING DETAILS

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS

NO	DATE	DESCRIPTION:
1	5/30/25	ADDENDUM #1

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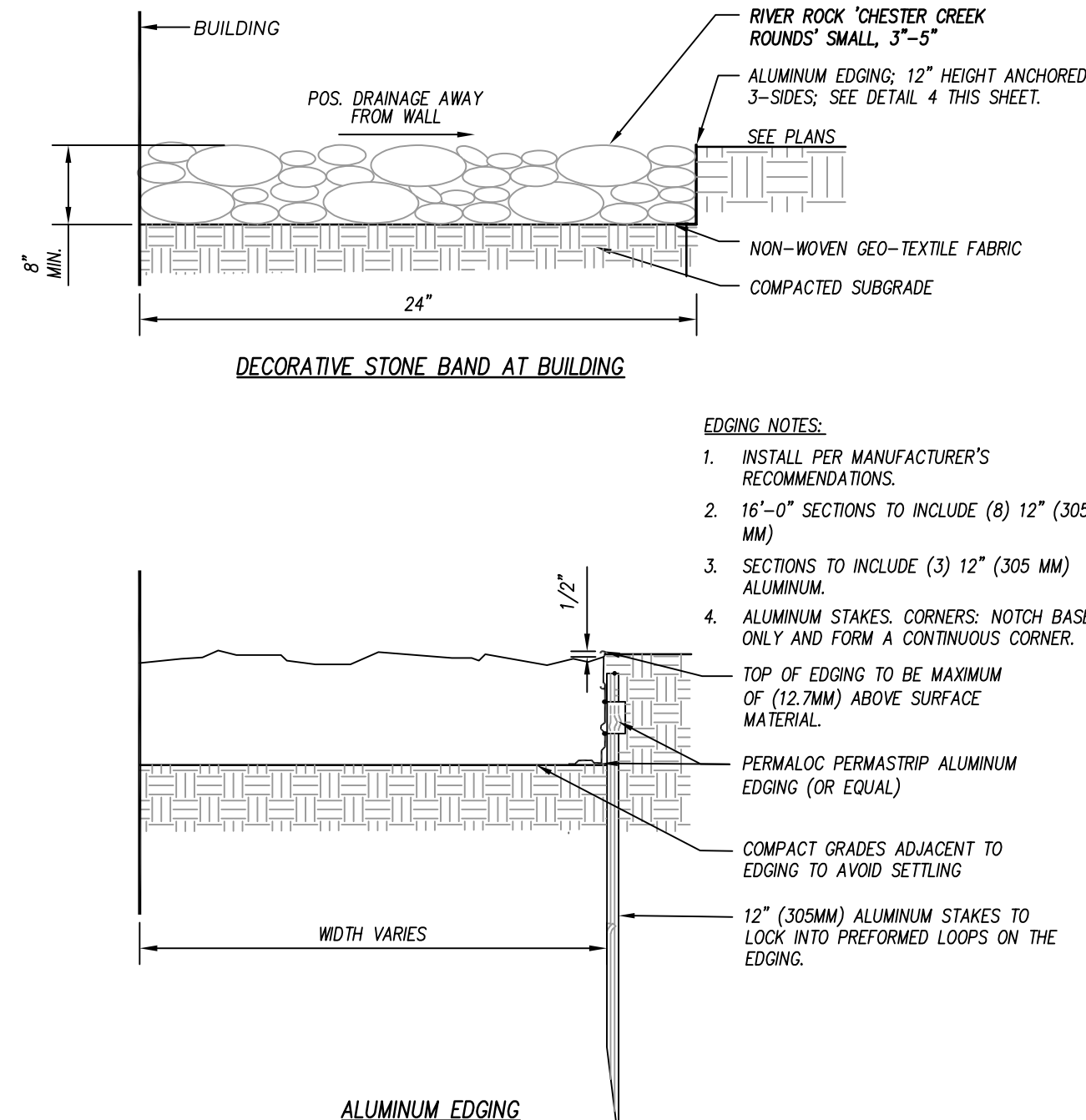
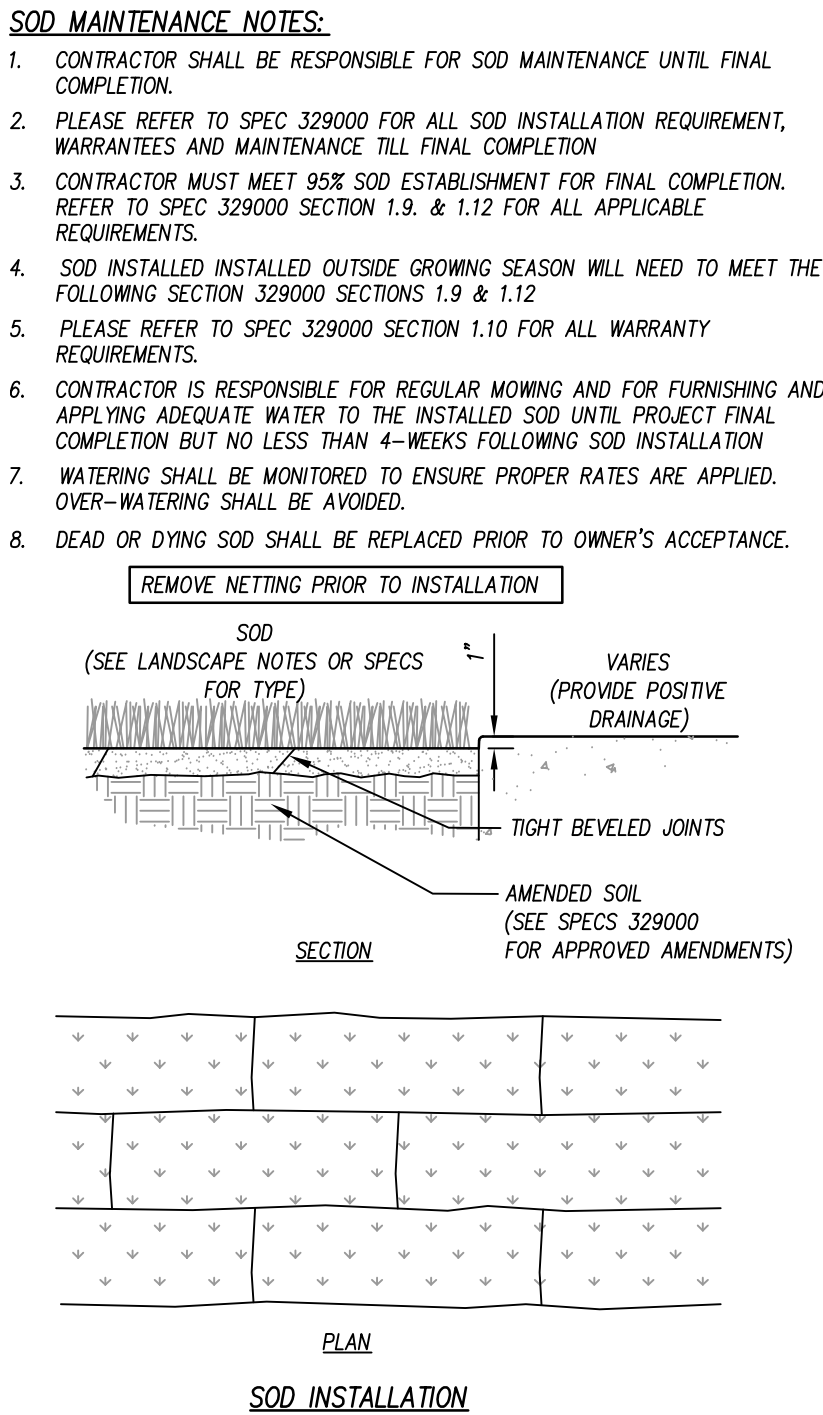
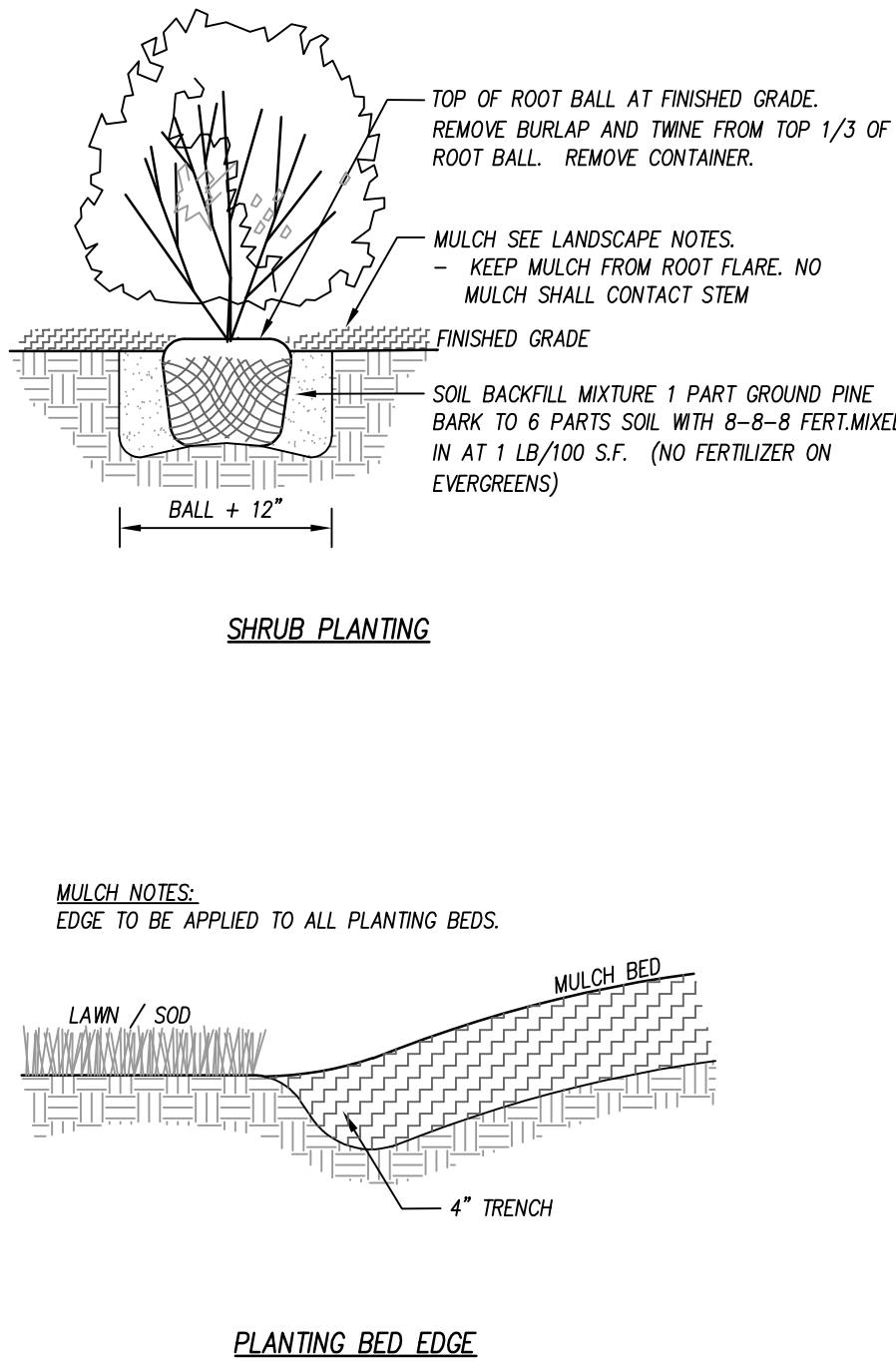
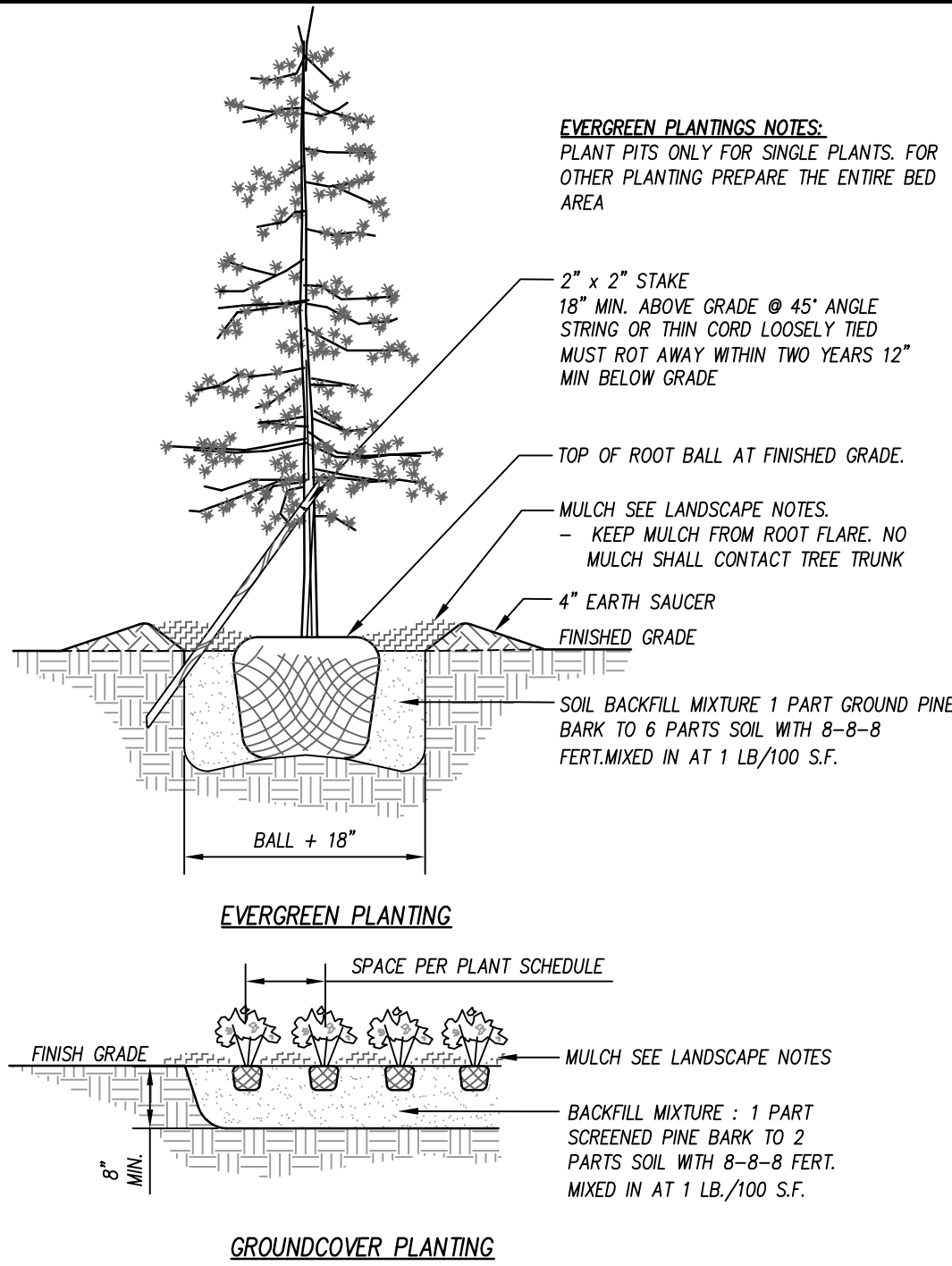
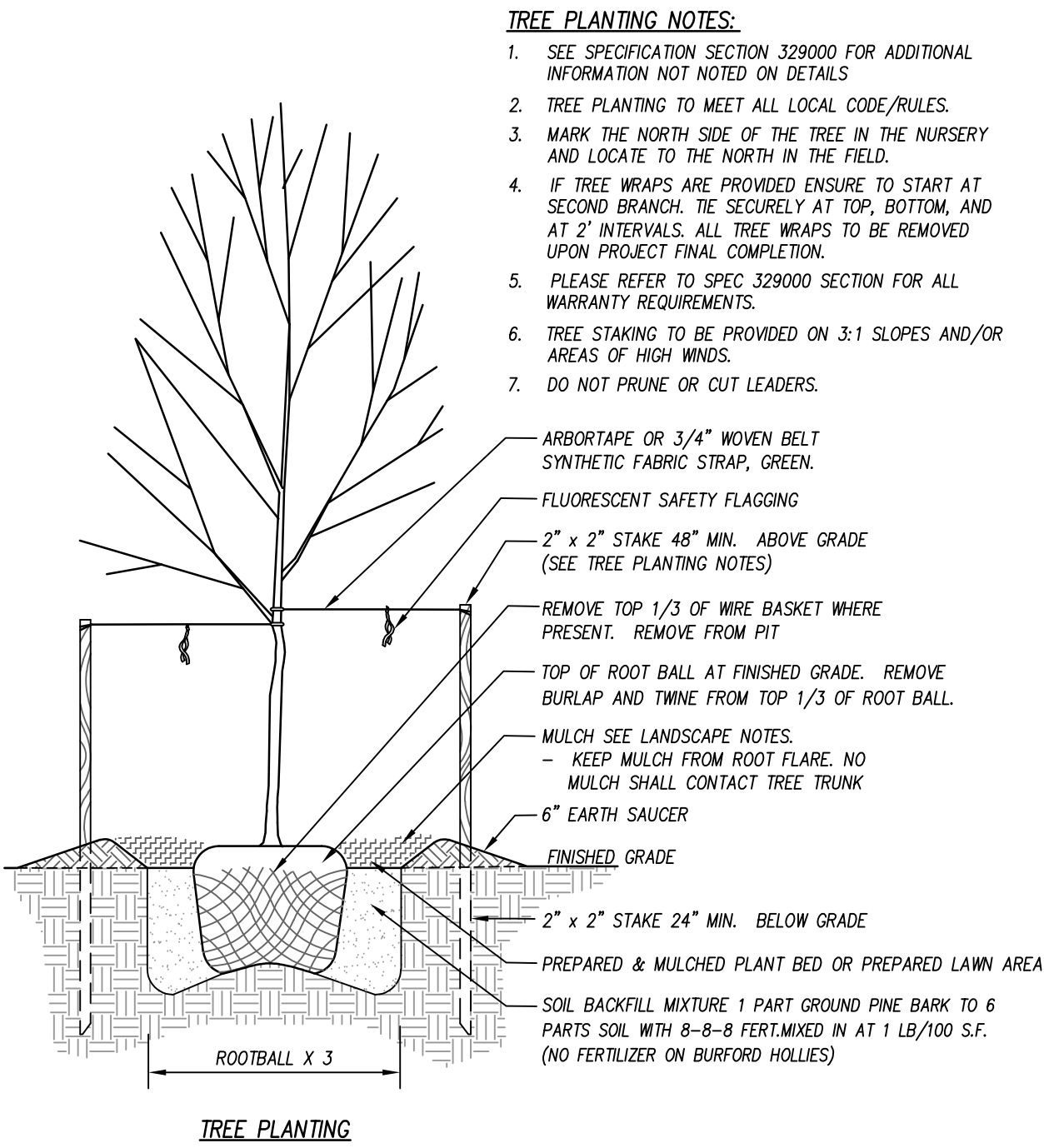


SHEET NUMBER

C902

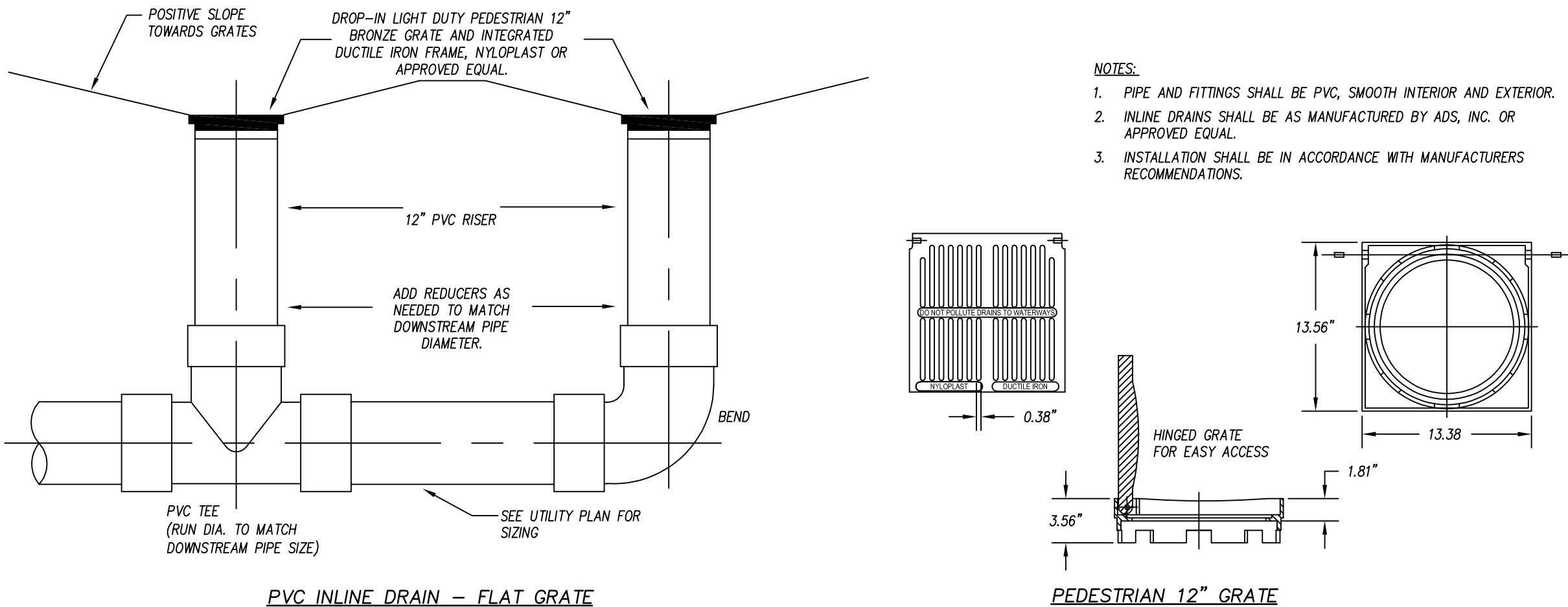
W. JUDD ST. WIDENING SECTION

N.T.S.



PLANTING / LANDSCAPING DETAIL

N.T.S.



- NOTES:**
- PIPE AND FITTINGS SHALL BE PVC, SMOOTH INTERIOR AND EXTERIOR.
 - INLINE DRAINS SHALL BE AS MANUFACTURED BY ADS, INC. OR APPROVED EQUAL.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

INLINE DRAIN

N.T.S.

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 PLAN 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 NURSERMEN 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 SHREDDED 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 IMPEROUS 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:
 - REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
 - REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 - ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 - 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 SCHEDULED. THE FENCING 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 COMPLETION. 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 SEEDING/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% 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 SUBSTITUTIONS.
- 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 SEEDING, 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-TOP 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.

TEMPORARY SEEDING SCHEDULE (JUNE 1ST TO FEBRUARY 28TH)

DATE	TYPE	SEEDING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN)	10 LBS PER 1,000/SF 35 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDAGRASS (SMALL-STEMMED VAR.) ***	10 LBS PER 1,000/SF 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENIED 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.

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 500 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, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCELSSOR 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 CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" 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 NCEOD GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

PERMANENT SEEDING SCHEDULE

DATE	TYPE	SEEDING RATE
APR 15 - JULY 15 **	HULLED SUNSTAR OR RIVERA BERMUDA	150 LBS/ACRE *
JULY 15 - AUG 15	SUNSTAR OR RIVERA BERMUDA (WATERING AT CONTRACTOR'S EXPENSE)	150 LBS/ACRE *

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

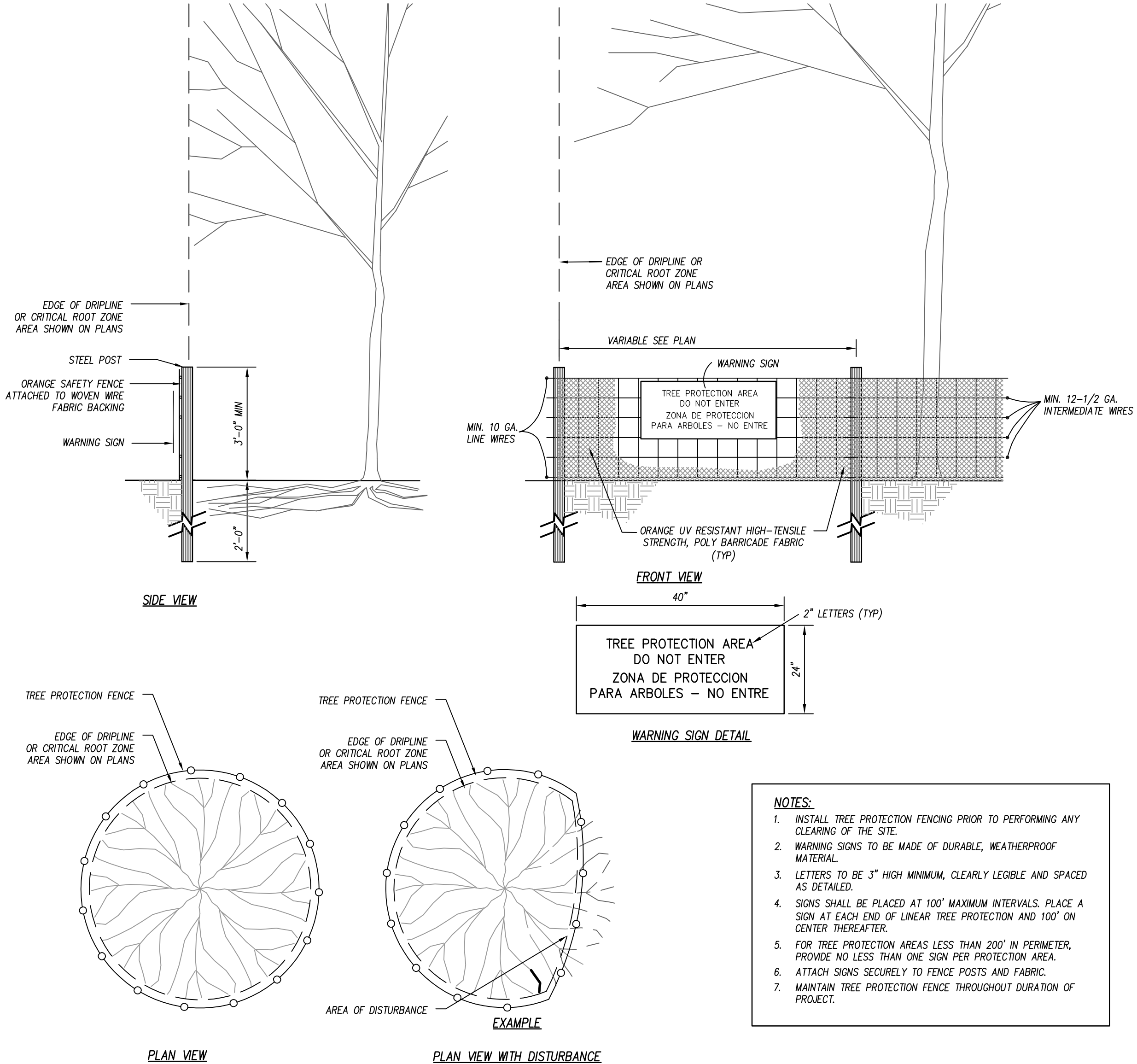
** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE NOTES:

- SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
- 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.
- DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

TURF, SOD AND SEEDBED PREPARATION:

- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES. MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.



PLANTING / LANDSCAPING NOTES

N.T.S.

TREE PROTECTION FENCE

N.T.S.

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architecture planning interiors

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LA: C-106, PE: C-1595



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

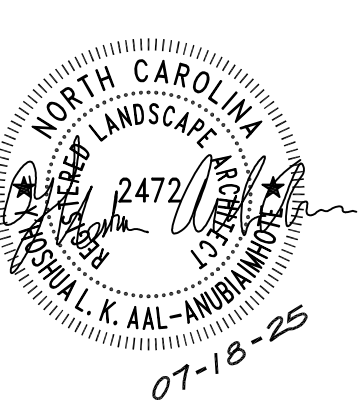
LANDSCAPE DETAILS

DATE 07-18-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:
1 5/30/25 ADDENDUM #1

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SHEET NUMBER

C903