

CONSTRUCTION DOCUMENT FOR:
ZEBULON PUBLIC SAFETY STATION

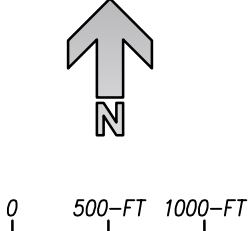
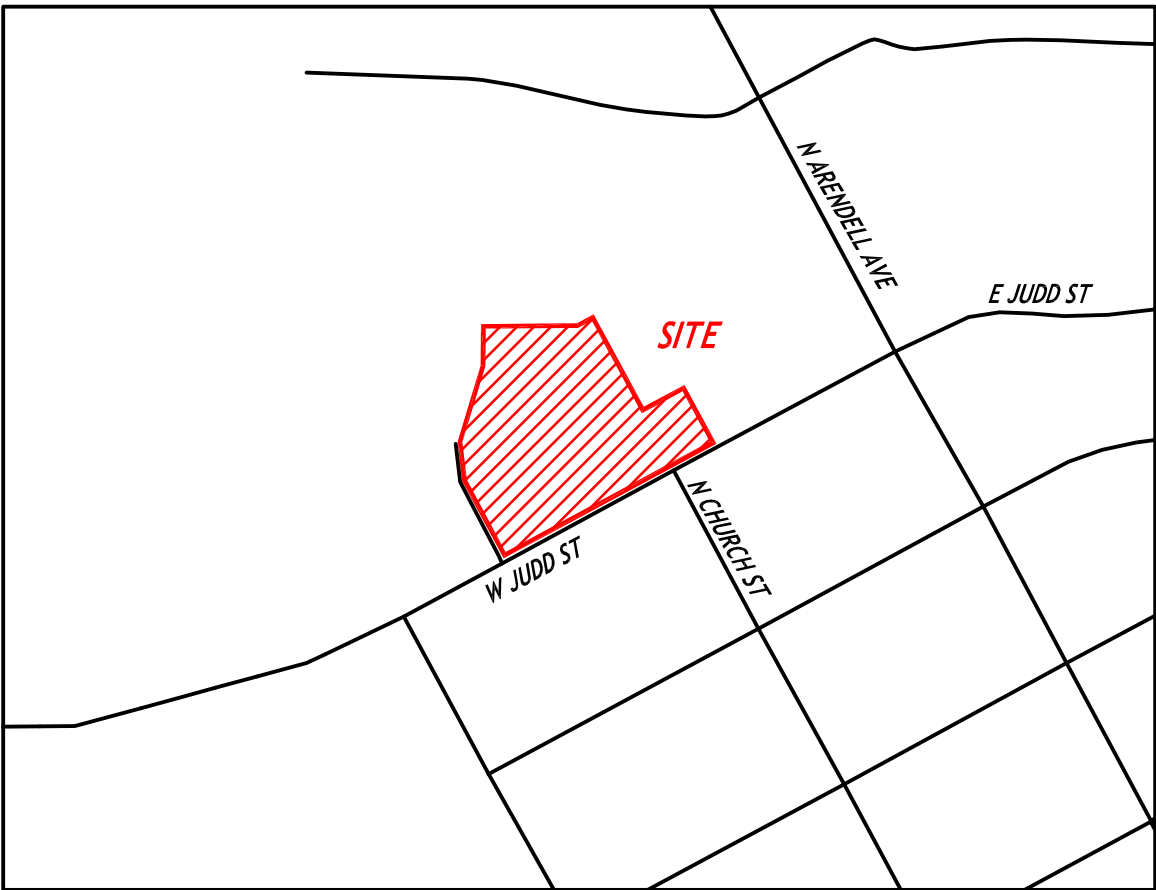
CONSTRUCTION DRAWINGS

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

| | |
|-------|--|
| CIVIL | |
| C001 | COVER SHEET |
| C101 | STAKING PLAN |
| C201 | EXISTING CONDITIONS |
| C202 | DEMOLITION PLAN |
| C301 | GRADING & DRAINAGE PLAN |
| C302 | PRE-DEVELOPMENT DRAINAGE AREA MAP |
| C303 | POST-DEVELOPMENT DRAINAGE AREA MAP |
| C304 | SCM & BYPASS DRAINAGE AREA MAP |
| C401 | EROSION CONTROL PLAN - INITIAL INSTALL |
| C402 | EROSION CONTROL PLAN |
| C501 | UTILITY PLAN |
| C502 | WATERLINE PLAN & PROFILE |
| C601 | LANDSCAPE PLAN |
| C701 | EROSION CONTROL DETAILS |
| C702 | EROSION CONTROL DETAILS |
| C703 | EROSION CONTROL DETAILS |
| C704 | WETLAND DETAILS |
| C705 | WETLAND DETAILS |
| C801 | UTILITY DETAILS |
| C802 | UTILITY DETAILS |
| C803 | UTILITY DETAILS |
| C901 | STAKING DETAILS |
| C902 | STAKING DETAILS |
| 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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architecture planning interiors

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ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

COVER SHEET

DATE 06-03-2025
CLH PROJECT NO 22-154

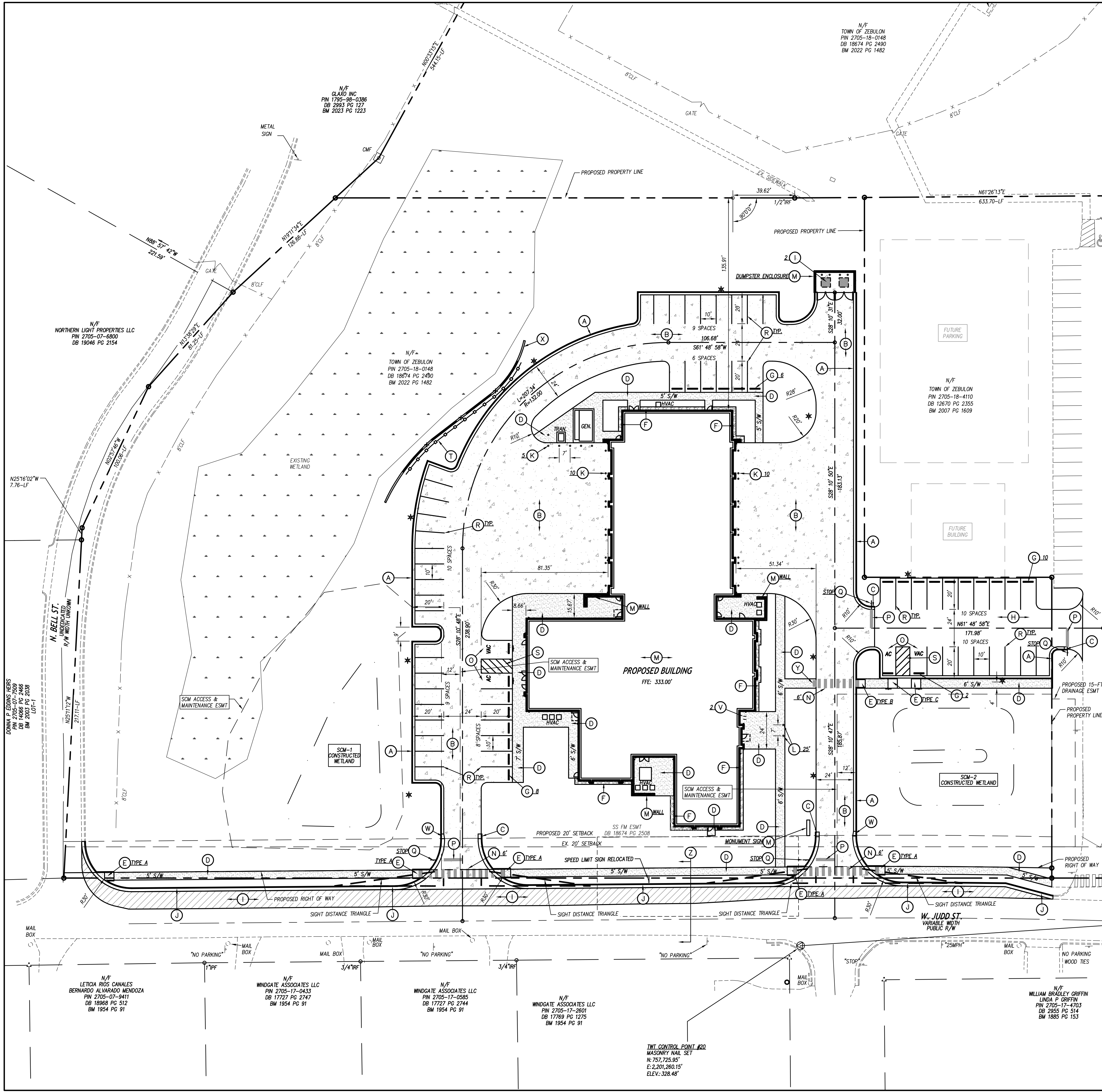
REVISIONS
NO DATE DESCRIPTION:

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SHEET NUMBER

C001



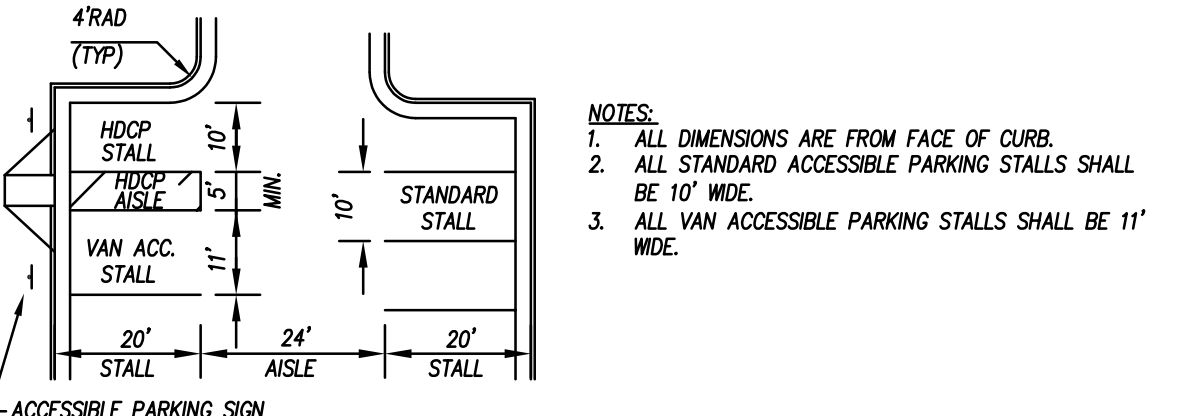
GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADI ARE 4-FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE A MINIMUM OF 10-FT WIDE X 20-FT DEEP.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. 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.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. 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

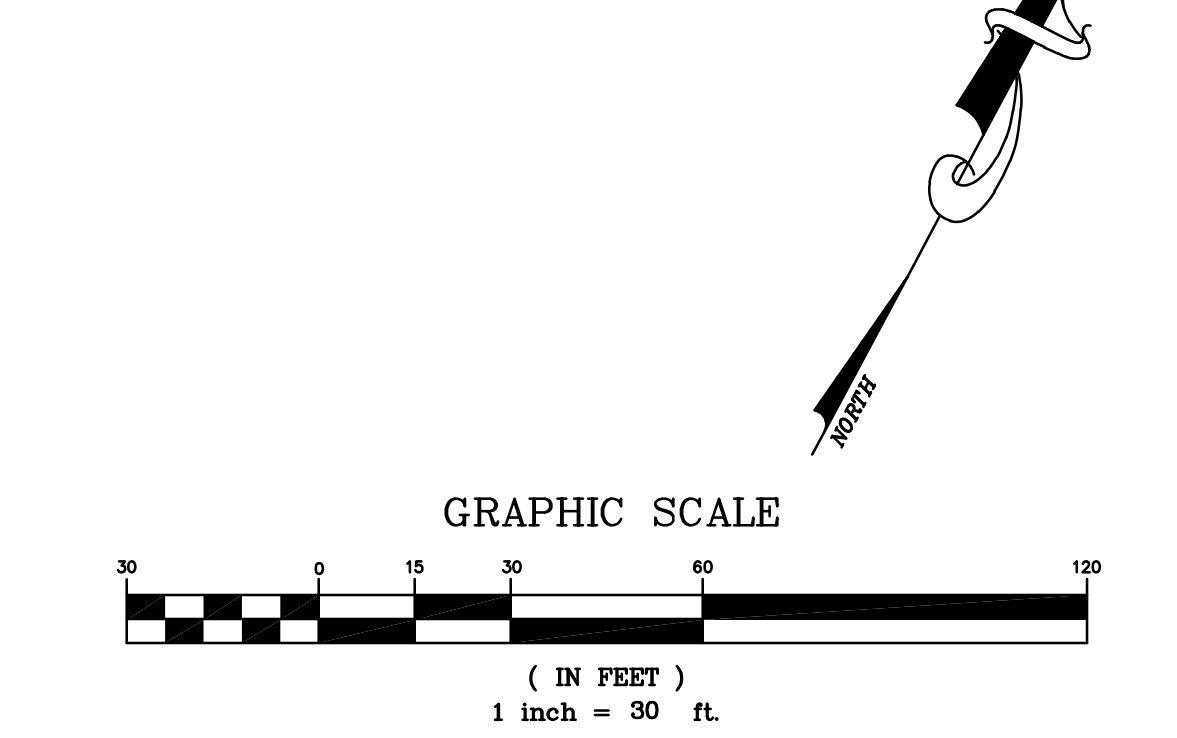
- (A) 24-IN CURB & GUTTER, SEE DETAIL SHEET C901.
- (B) HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET C901.
- (C) STANDARD CURB & GUTTER TERMINUS, SEE DETAIL SHEET C901.
- (D) CONCRETE SIDEWALK, SEE DETAIL SHEET C901.
- (E) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C902.
- (F) DECORATIVE STONE BAND, SEE 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) HI-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

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP X 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKO-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
7. COORDINATE FIRE LANE MARKINGS WITH TOWN OF ZEBULON FIRE MARSHAL.
8. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.



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PUBLIC SAFETY
STATION

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ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING PLAN

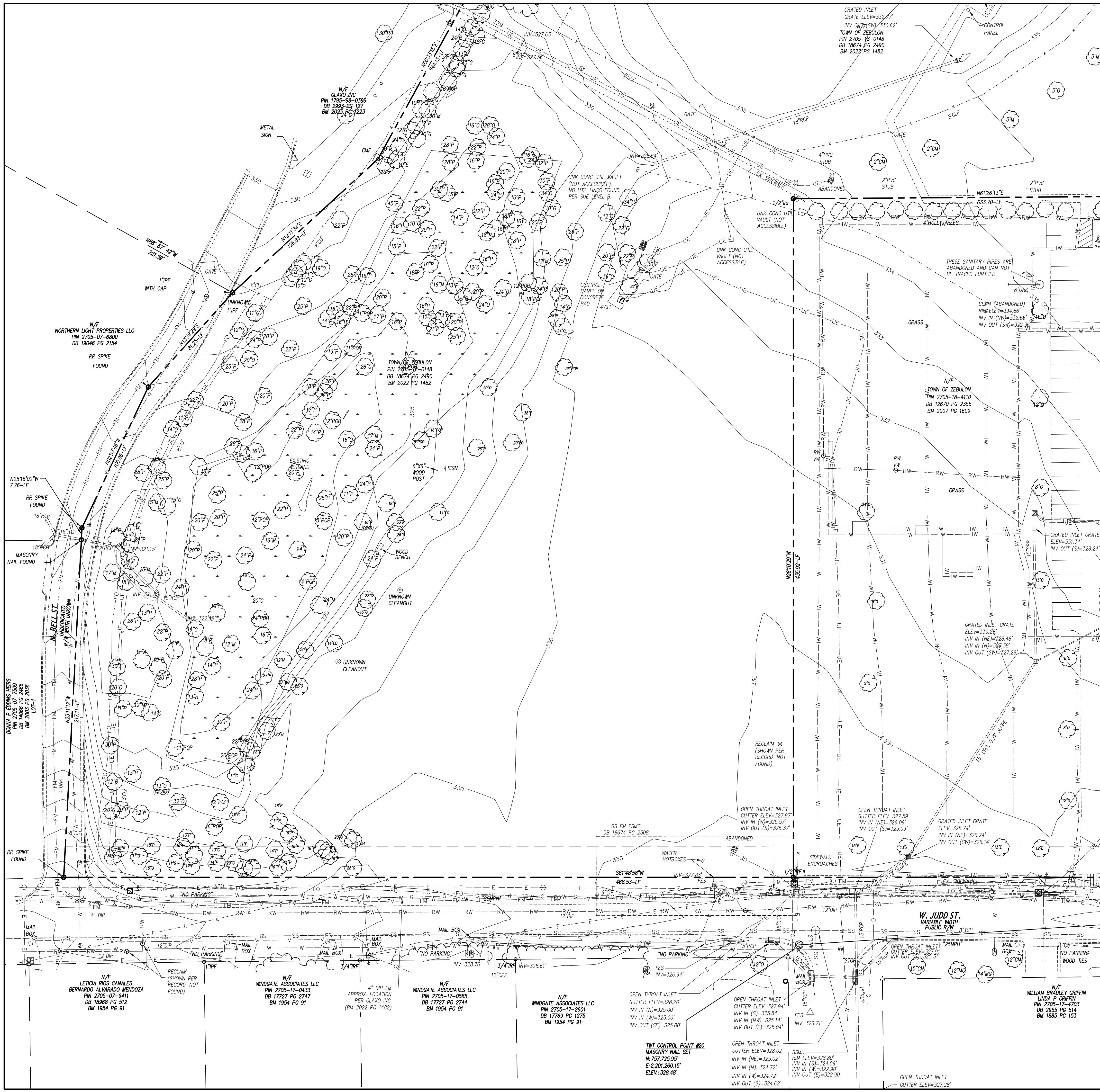
DATE 06-03-2025
CLH PROJECT NO 22-154

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

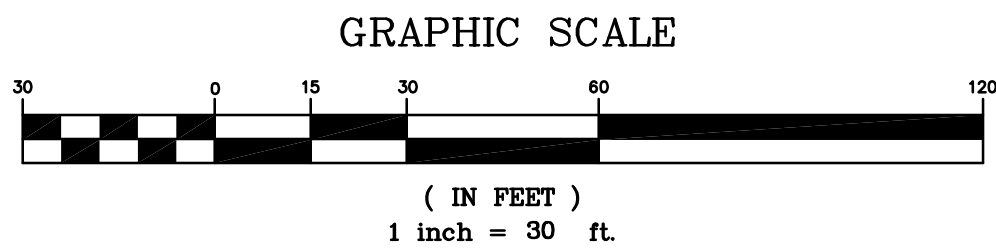
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SHEET NUMBER



| | | | |
|------------------------|------|--------|------|
| 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 | |



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

EXISTING CONDITION

DATE 06-03-2025

CLH PROJECT NO 22-154

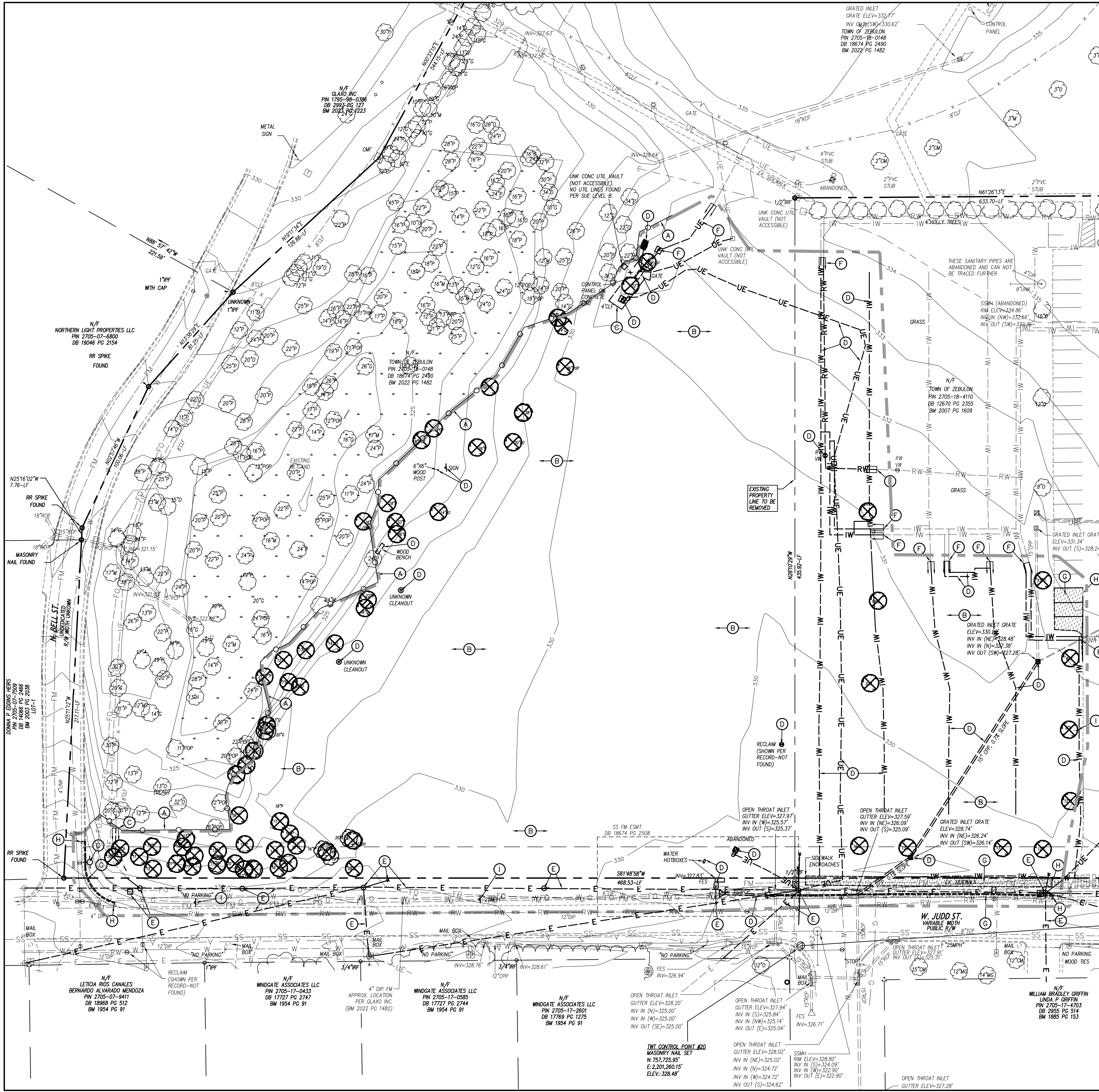
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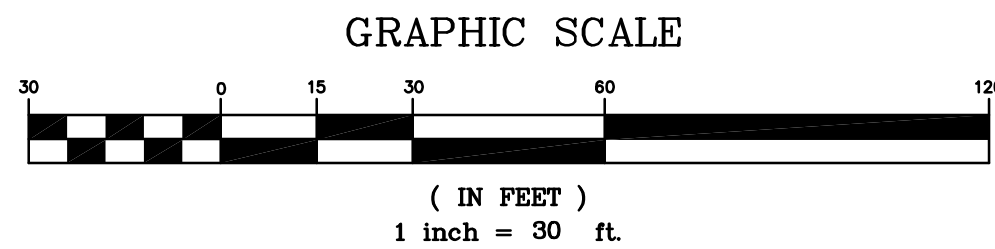
C201



| 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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ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

DATE 06-03-2025
CLH PROJECT NO 22-154

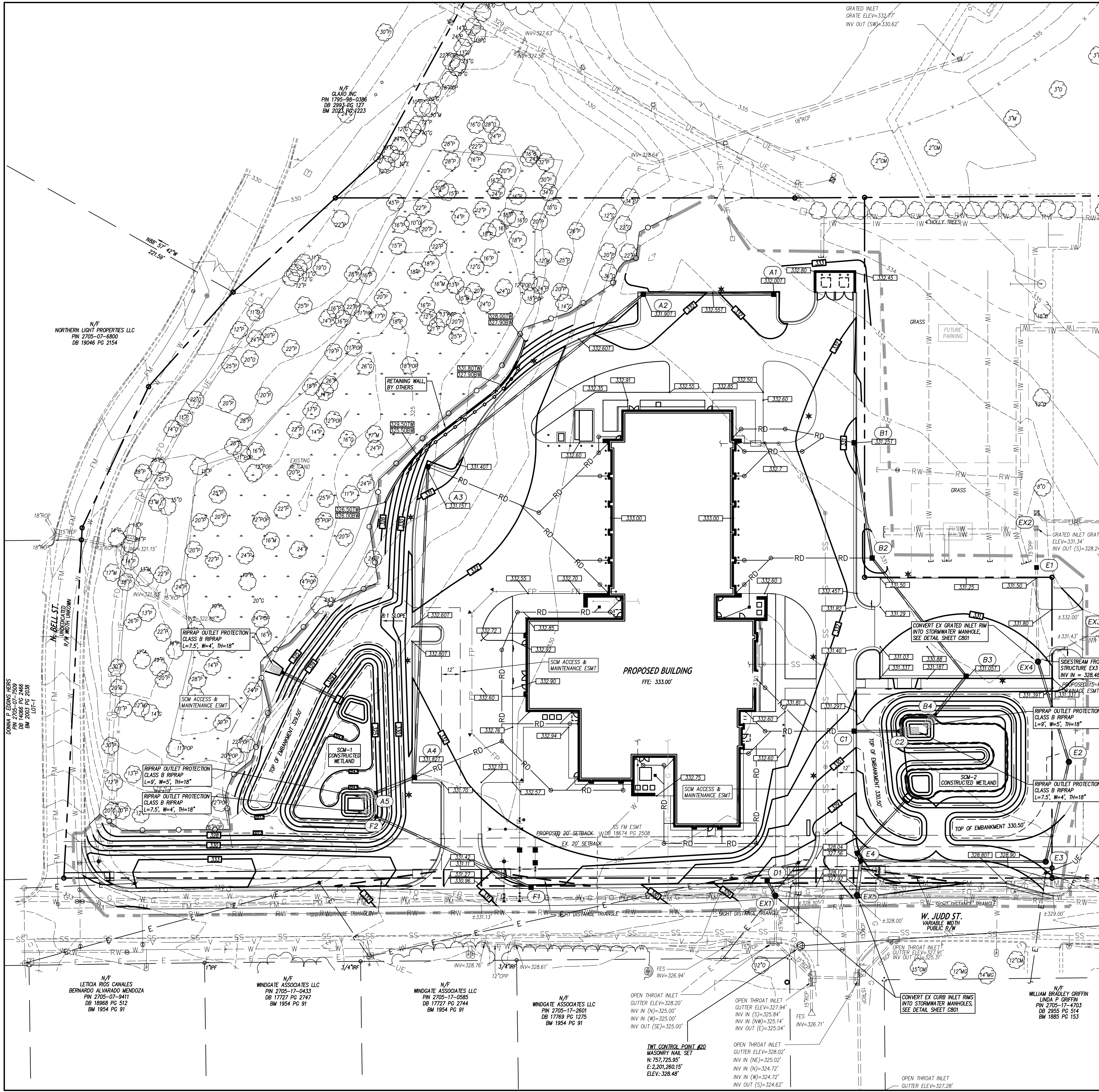
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SHEET NUMBER

C202



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING SURVEY SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GROUND/PAVEMENT ELEVATION
- PROPOSED FINISHED GRADE AT TOP OF WALL ELEVATION
- PROPOSED FINISHED GRADE AT BOTTOM OF WALL ELEVATION
- STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
- PROPOSED ROOF DRAIN
- TREE PROTECTION FENCE

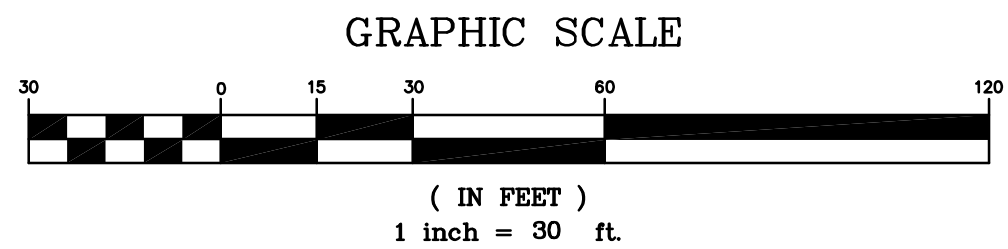
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS AND SPECIFICATIONS.
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
- TOTAL DENUDED AREA = 4.05 AC
- CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C702.
- EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
- 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.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
- 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.
- THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
- 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

| DRAINAGE STRUCTURE SCHEDULE | | | | | | | | | | |
|---|----------------|------------------|------------|-----------------|-----------------|----------------|------------|-------------------------|-------|--------|
| STRUCTURE NO. | PIPE DIA. (IN) | PIPE LENGTH (LF) | PIPE MAT'L | UPPER INV. (FT) | LOWER INV. (FT) | TOP ELEV. (FT) | DEPTH (FT) | UPSTREAM STRUCTURE DATA | | |
| UP STRM | DN STRM | SLOPE | | | | | | TYPE | NOTES | |
| A1 | A2 | 0.60% | 15 | 84 | RCP | 328.10 | 327.60 | 332.00 | 3.90 | CB |
| A2 | A3 | 0.62% | 15 | 177 | RCP | 327.50 | 326.40 | 331.90 | 4.40 | CB |
| A3 | A4 | 0.68% | 15 | 219 | RCP | 326.30 | 324.80 | 331.15 | 4.85 | CB |
| A4 | A5 | 0.71% | 18 | 28 | RCP | 324.70 | 324.50 | 331.82 | 7.12 | CB |
| B1 | B2 | 0.67% | 15 | 75 | RCP | 327.80 | 327.30 | 331.25 | 3.45 | CB |
| B2 | B3 | 0.62% | 15 | 97 | RCP | 327.20 | 326.60 | 330.75 | 3.55 | DI |
| B3 | B4 | 0.76% | 18 | 33 | RCP | 326.50 | 326.25 | 331.05 | 4.55 | CB |
| C1 | C2 | 6.03% | 15 | 29 | RCP | 328.00 | 326.25 | 332.00 | 4.00 | CB |
| D1 | EX1 | 0.91% | 15 | 11 | RCP | 325.60 | 325.50 | 332.40 | 2.80 | CI |
| EX2 | E1 | 0.96% | 15 | 26 | EX RCP | 328.24 | 327.99 | 331.25 | 3.01 | DI |
| E1 | EX4 | 1.02% | 15 | 60 | EX RCP | 327.99 | 327.38 | 331.25 | 3.26 | DI |
| EX4 | E2 | 1.09% | 15 | 67 | RCP | 327.28 | 326.55 | 330.90 | 3.62 | MH |
| E2 | E3 | 0.53% | 15 | 66 | RCP | 326.45 | 326.10 | 330.25 | 3.80 | MH |
| E3 | E4 | 0.51% | 15 | 118 | RCP | 326.00 | 325.40 | 328.50 | 3.90 | MH |
| E4 | EX5 | 0.45% | 24 | 22 | RCP | 325.30 | 325.20 | 328.06 | 2.76 | DBL CB |
| EX3 | EX4 | 2.08% | 6 | 106 | EX CPP | 330.68 | 328.48 | 333.58 | 2.90 | JB |
| F1 | F2 | 2.55% | 15 | 110 | RCP | 327.30 | 324.50 | 331.25 | 3.95 | CB |
| LEGEND | | | | | | | | | | |
| NOTES | | | | | | | | | | |
| 1. TOP ELEV. IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS AND INLINE AREA DRAINS, AND FINISH GRADE FOR CLEANOUTS. | | | | | | | | | | |
| 2. ALL PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF JUNCTIONS, MANHOLES, OR TO THE END OF THE FEES. | | | | | | | | | | |
| 3. ALL FEES INLETS & OUTLETS SHALL BE RCP. | | | | | | | | | | |
| 4. UPSTREAM STRUCTURE IS A FEES. | | | | | | | | | | |
| 5. UPSTREAM STRUCTURE IS A DOUBLE CATCH BASIN. | | | | | | | | | | |
| 6. PIPE SHALL BE CLASS IV RCP. | | | | | | | | | | |
| 7. UPSTREAM STRUCTURE IS A DOUGHOUSE OVER EXISTING PIPE. | | | | | | | | | | |



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ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

GRADING & DRAINAGE PLAN

DATE 06-03-2025

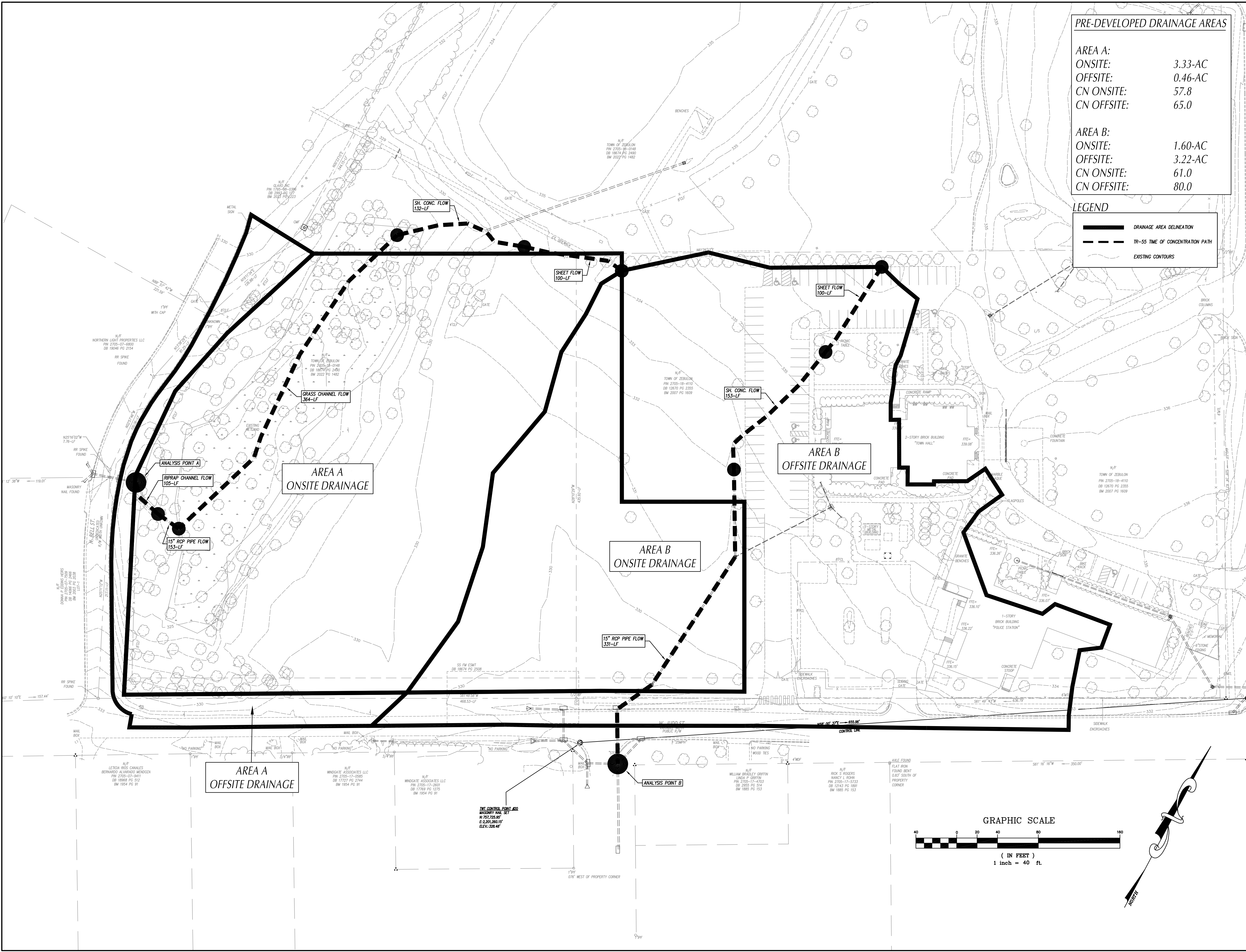
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1 5/30/25 ADDENDUM #1

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SHEET NUMBER

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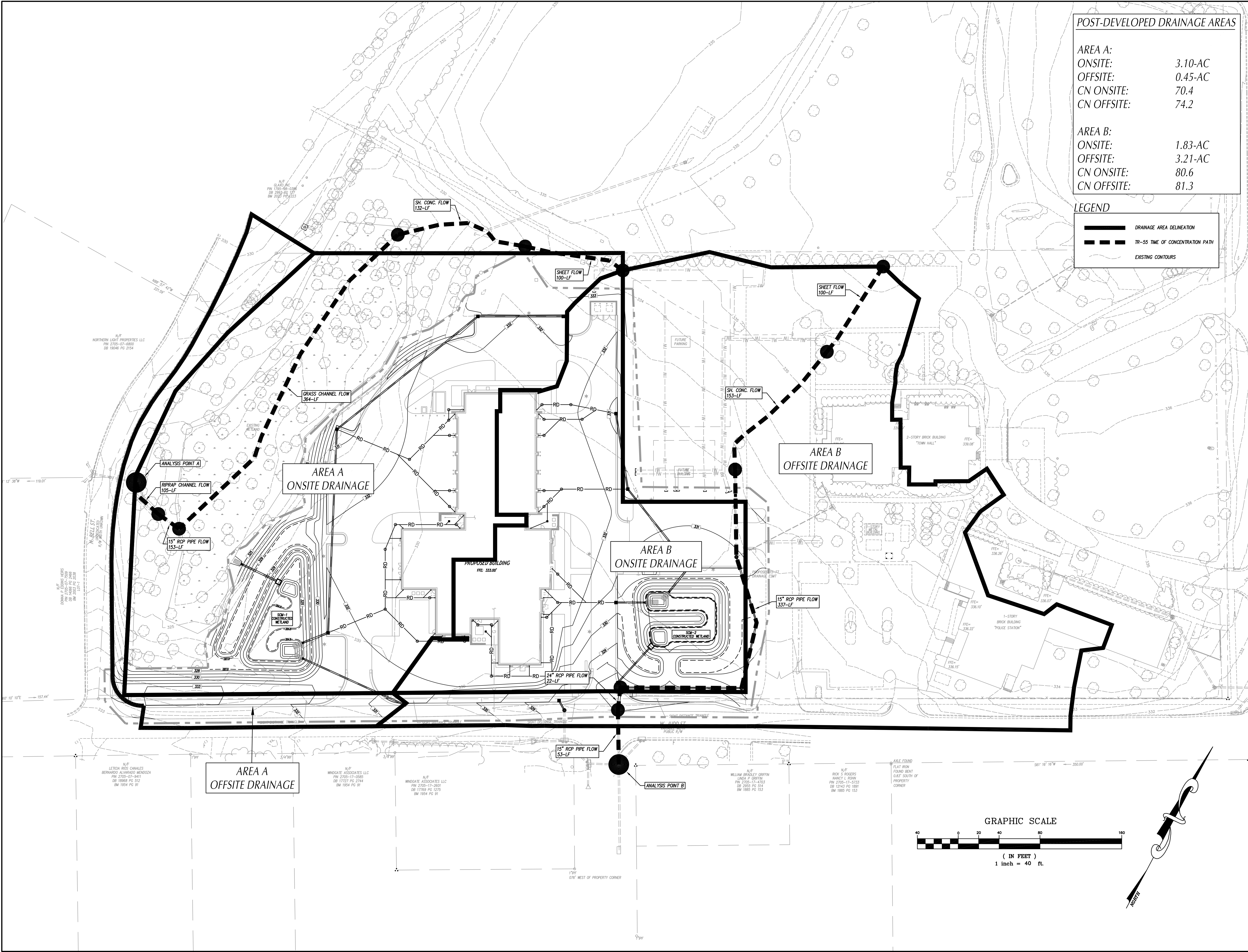
PRE-DEVELOPMENT DRAINAGE AREA MAP

DATE 06-03-2025

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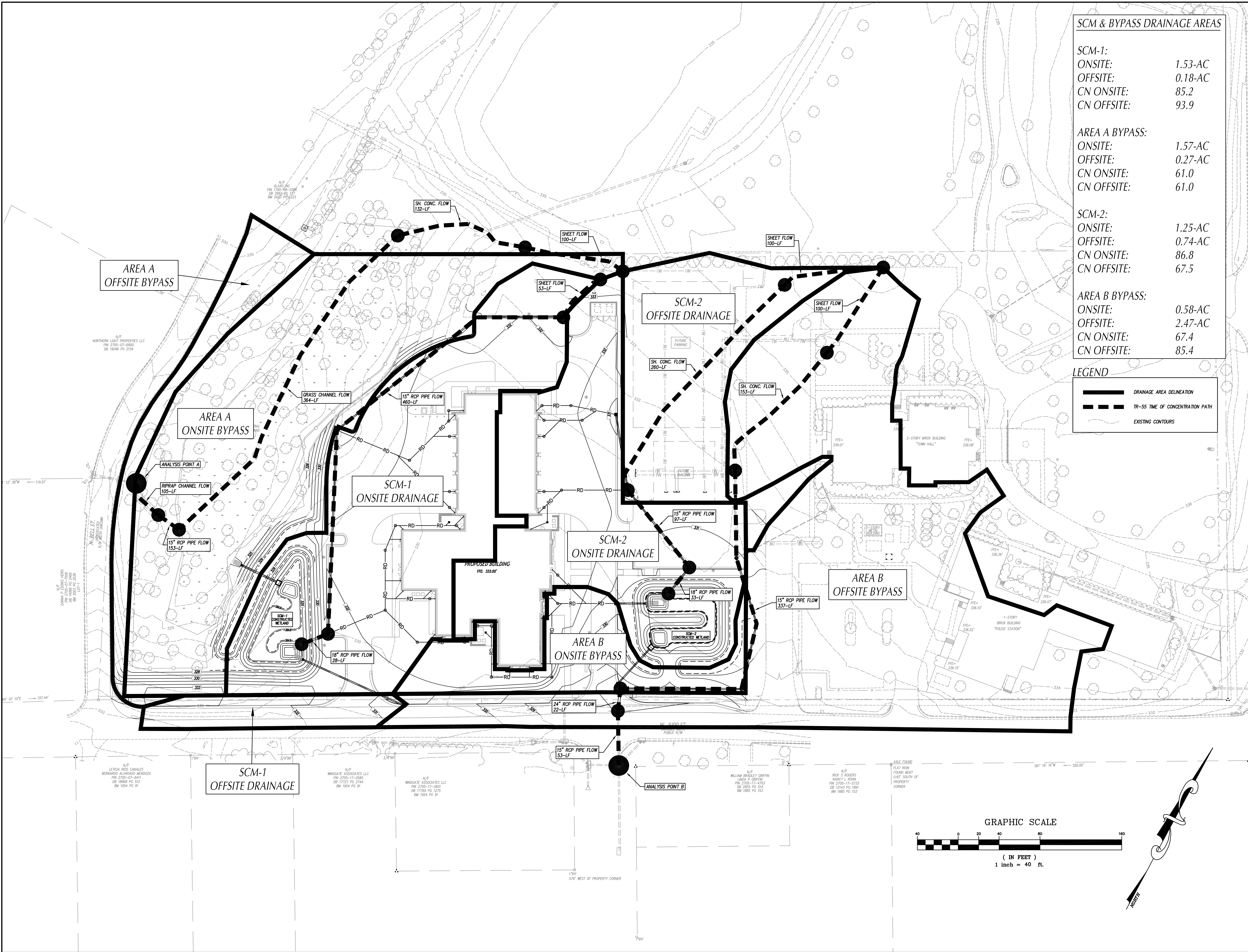
CONSTRUCTION DOCUMENTS

POST-DEVELOPMENT DRAINAGE AREA MAP

DATE 06-03-2025
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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 |



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CONSTRUCTION DOCUMENTS

SCM & BYPASS
DRAINAGE AREA MAP

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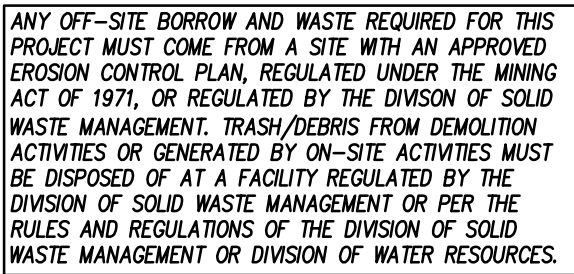
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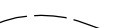




















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SHEET NUMBER

C304

1. EROSION AND SEDIMENT CONTROL (EASC) 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 FILLING OUT THE ELECTRONIC COC INTENT (E-COC) FORM AT WWW.DNR.NC.GOV/NOVAC. PLEASE NOTE: E-COC FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED.
2. PER NPDES REQUIREMENTS, A RAIN GAUGE, SELF-INSPECTIONS RECORDS, PERMIT, CERTIFICATE OF COVERAGE, AND S&C PLAN ARE REQUIRED TO BE INSTALLED ON SITE AT THE BEGINNING OF CONSTRUCTION. THE FOLLOWING ARE RECOMMENDED THAT THESE ITEMS BE PLACED IN A PERMITS BOX AT THE BEGINNING OR ENTRANCE OF PROJECT.
3. INSTALL TREE PROTECTION FENCING.
4. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE.
5. CONTACT NC DEQ LOS RALEIGH OFFICE AT 791-791-2400 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION AND PREPARE FOR THE PROJECT START-UP DATE.
6. CONSTRUCT PROTECTION FENCING.
7. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE EASC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED EASC PLAN WITH APPROVAL CERTIFICATE, LETTER, AND NPDES PERMIT WITH A MINIMUM OF 30 MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE WWW.DNR.NC.GOV/NOVAC FOR MORE DETAILS). THESE SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
8. SELF-INSPECTION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONDUCTED AT LEAST ONCE A WEEK. MEASUREMENTS SHOULD BE TAKEN AT LEAST 1 HOUR 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 **
9. CONTACT THE DEMAR LAURENCE REGIONAL OFFICE AT 791-792-4200 AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
10. INSTALL TEMPORARY CONSTRUCTION ENTRANCES, PERMETER SILT FENCES, REINFORCED OUTLET PROTECTION, J-HOOK OUTLET PROTECTION, AND COMPOST STRIP FENCING.
11. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
12. PER THE NPDES PERMIT, GRAD STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES THAT ARE MOST STABILIZED WITHIN 7 CALENDAR DAYS.
13. ** 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.
14. REFERENCE TO SHEET C402 FOR CONTINUATION OF CONSTRUCTION SEQUENCE.
15. INSTALL TEMPORARY SEDIMENT SKIMMER BASIN "TSS5-1" BARREL PIPE AND OUTLET STRUCTURE. GRADE EMBANKMENT TO THE MINIMUM GRADATION 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 MATTED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
16. ** INSTALL TEMPORARY DIVERSION DITCH "TOD-1": CHANNELS SHALL BE ESTABLISHED WITH APPROVED 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.
17. INSTALL TEMPORARY SLOPE DRAIN "TSD-1".
18. INSTALL STORM INLETS E4, E2, E3, AND E4. INSTALL INLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. INSTALL STORM DRAIN INLETS E2, E3, E4, AND E4. AND PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER SLOPE OF WORK EACH DAY.
19. INSTALL TEMPORARY SEDIMENT SKIMMER BASIN "TSS5-2" BARREL PIPE AND OUTLET STRUCTURE. GRADE EMBANKMENT TO THE MINIMUM GRADATION 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 MATTED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
20. ** INSTALL TEMPORARY DIVERSION DITCH "TOD-2": CHANNELS SHALL BE ESTABLISHED WITH APPROVED 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.
21. INSTALL TEMPORARY SLOPE DRAIN "TSD-2".
22. CALL FOR INSPECTION OF INSTALLED DEVICES.
23. 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.



- | | | | |
|---|---|---|---|
|  | GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C701. |  | 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 C703. |  | EXISTING CONTOUR |
|  | TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C702. |  | FINISHED CONTOUR |
|  | TEMP. SILT FENCE, SEE DETAIL SHEET C701. |  | TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.) |
|  | TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C701. |  | CHANNEL LINING, SEE DETAIL SHEET C702. |
|  | TEMP. 4-HOOK PROTECTION, SEE DETAIL SHEET C702. |  | TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET C702. |
|  | TEMP. PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C703. |  | TREE PROTECTION FENCE, SEE DETAIL SHEET C701. |
|  | TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C703. |  | TEMP. COMPOST SOCK, SEE DETAIL SHEET C703. |
|  | TEMP. PLASTIC LINING, SEE TEMP. BASIN BAFFLES DETAIL SHEET C702. |  | TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET C703. |
|  | TEMP. EXCAVATED INLET, SEE DETAIL SHEET C703. |  | TEMP. SLOPE DRAIN, SEE DETAIL SHEET C703. |
|  | |  | PROPOSED STORM SEWER PIPES |
| | |  | EXISTING STORM SEWER PIPES |
| | |  | CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED. |

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON, NDEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. 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 DISTRICT ARCHITECT.
4. TOTAL DISTURBED AREA: 4.05 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STORAGE EACH SIDE OF SEE DETAIL WITHOUT GOR.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE CONSTRUCTION. INTERIOR OF THE DRAINAGE SYSTEM SHALL BE MAINTAINED 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. DISTURBED STABLED FOR STOCKPILING OF MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. ALL OTHER MATERIALS MAY BE TEMPORARILY STOCKPILED WITHIN CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED, INDICATED IN THE PLAN & SURFACE STABILIZATION SHALL BE IN PLACE. THE PROTECTIVE FENCE ON SITE SHALL BE MAINTAINED AT ALL TIMES WORK COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (COO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREAS. ANY ENCROACHMENT SHALL BE REPAIRABLE. ANY REMOVAL OF ANY STAKE OR 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 BOARD. ANY DAMAGE TO OR REMOVAL OF ANY INDIVIDUAL TREE OR GROUP OF TREES OR ANY PART OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
10. ROADWAY DITCHES SHALL BE REPAIRED TO ORIGINAL GRADE AND GROUND COVER IS ESTABLISHED.
11. TEMPORARY MATTING TO TOP OF ALL SHEET SLOPES ON CHANNELS, DIVERSION DITCHES AND INSTALL TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
12. ANY DETERIORATING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
13. ANY DETERIORATING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
14. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
15. CONTRACTOR SHALL USE THE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF TRACKING IS OBSERVED. THERE SHALL BE NO TRACKING OF SEDIMENT ONTO THE ROAD.
16. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

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 C903 FOR TEMPORARY SEEDING.
2. ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS FOLLOWING COMPLETION OF GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR REGULATION. SEE SHEET C903 FOR PERMANENT SEEDING.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR MAY REQUIRE 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 PERMANENT COVER ON ALL SLOPES (SEE 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.

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 NCDENR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ONSITE.


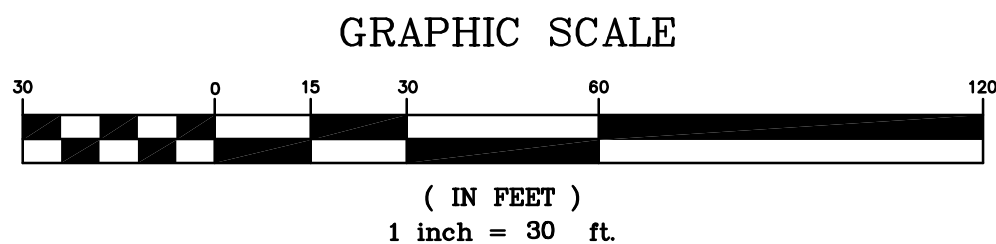
GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

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

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 MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCESSOR 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 COVERING AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEETS C401 & C402 FOR EROSION CONTROL
CONSTRUCTION SEQUENCE.



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CONSTRUCTION DOCUMENTS

CLH PROJECT NO 22-154

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

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SHEET NUMBER

C401

CONSTRUCTION SEQUENCE

REFER TO SHEET C401 FOR CONSTRUCTION SEQUENCE - INITIAL INSTALL

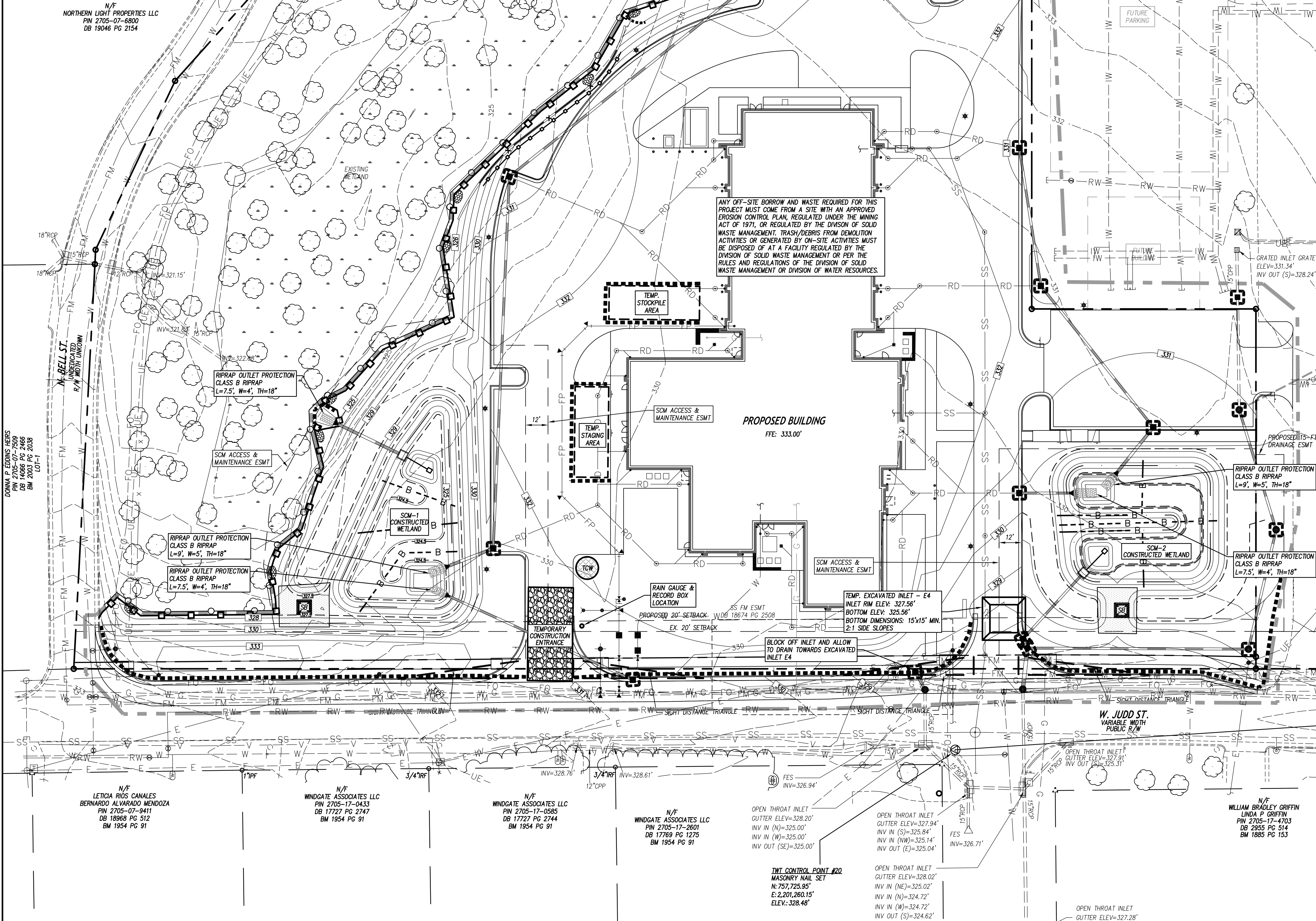
** SELF-INSPECTION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PERFORMED AT LEAST EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1" INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESS MEASURES SHALL BE MAINTAINED AS SPECIFIED 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. RESPIRAD 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. PERMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. FOR 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 SOMS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
10. 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 SOM DETAILS 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.). REMAINING MEASURES MUST BE REMOVED AND RESULTING BARE AREAS STABILIZED BEFORE PERMIT CAN BE CLOSED.
14. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMUL TO CLOSE OUT THE E&S PLAN. AFTER DEMUL INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEMUL.GOV/NCDOIT TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.

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



DNV & DAVIS ASSOC
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 18960 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

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
OUTLET ELEV=328.02'
INV IN (N)=325.00'
INV IN (S)=325.00'
INV OUT (SE)=325.00'

OPEN THROAT INLET
OUTLET ELEV=327.28'
INV IN (N)=324.72'
INV IN (S)=324.62'

LEGEND

- | | |
|--|--|
| GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C701. | TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEETS C704 & C705. |
| TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C702. | TEMP. BAFFLES, SEE DETAIL SHEET C702. |
| TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C702. | EXISTING CONTOUR |
| TEMP. SILT FENCE, SEE DETAIL SHEET C701. | TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.) |
| TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C701. | CHANNEL LINING, SEE DETAIL SHEET C702. |
| TEMP. J-HOOK PROTECTION, SEE DETAIL SHEET C702. | TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET C702. |
| PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C703. | TREE PROTECTION FENCE, SEE DETAIL SHEET C701. |
| TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C703. | TEMP. COMPOST SOCK, 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 |
| | CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED. |

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON, NCDOE, AND NCDOIT 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 AC.
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 SAND, SOIL 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 FAN 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.

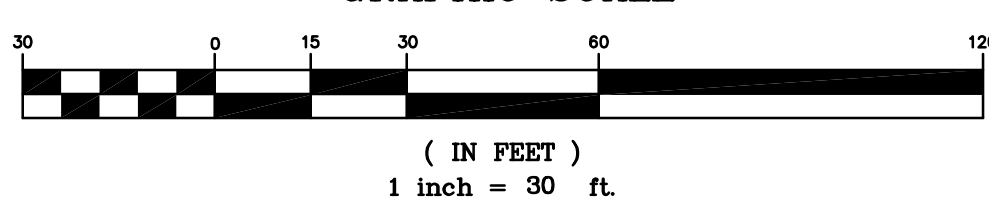
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b)).

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 EXCELSDOR 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



adwarchitects
environmentsforlife

architecture planning interiors

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F 704 379 1920
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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
PLAN

DATE 06-03-2025

CLH PROJECT NO 22-154

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

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SHEET NUMBER

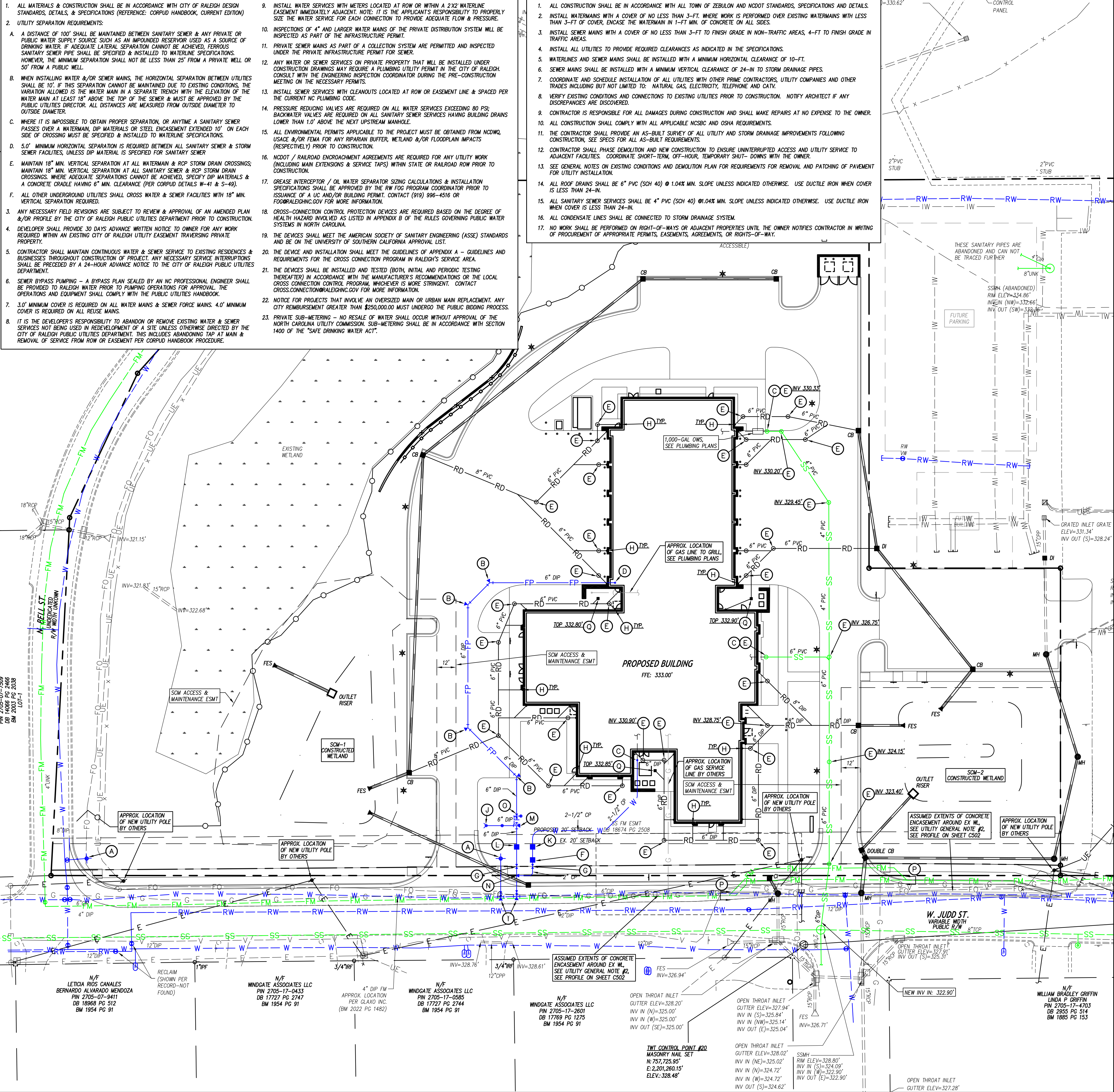
C402

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 FORCE 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 | LP | * |
| UTILITY POLE | PP | * |
| MANHOLE | MH | * |
| CLEAN OUT | CO | * |
| DROP INLET, CATCH BASIN | DI, CB | * |
| FIRE HYDRANT | FH | * |
| WATER VALVE | WV | * |
| POST INDICATOR VALVE (PIV) | PIV | * |
| FIRE DEPARTMENT CONNECTION (FDC) | FDC | * |
| THRUST BLOCKING | TB | * |
| SANITARY SEWER STRUCTURE IDENTIFICATION | SS | SS |

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 _____

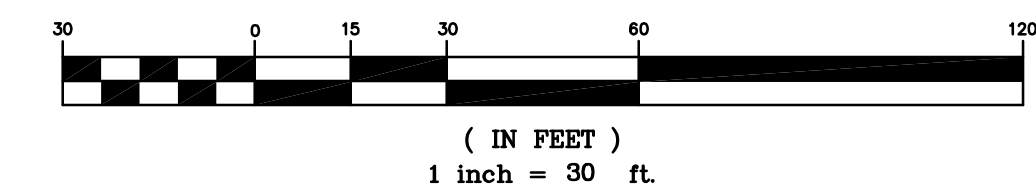
ATTENTION CONTRACTORS

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



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LA: C-106, PE: C-1595



**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

UTILITY PLAN

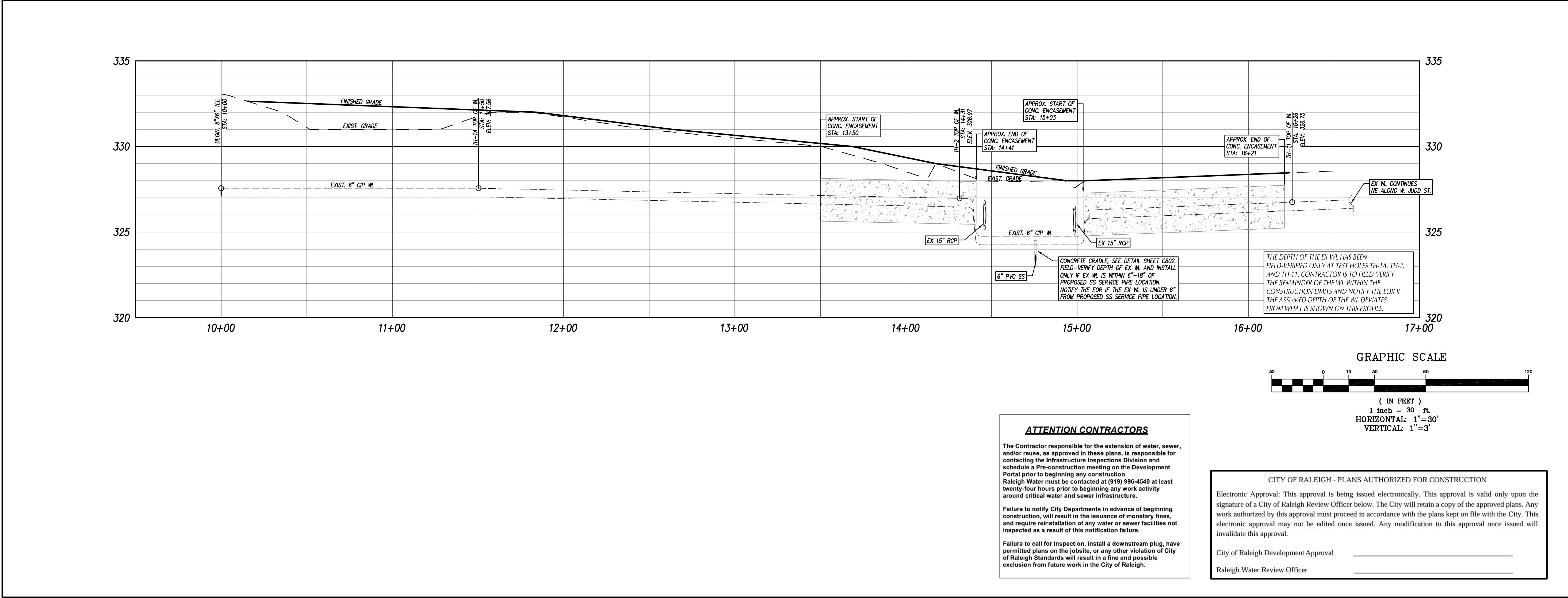
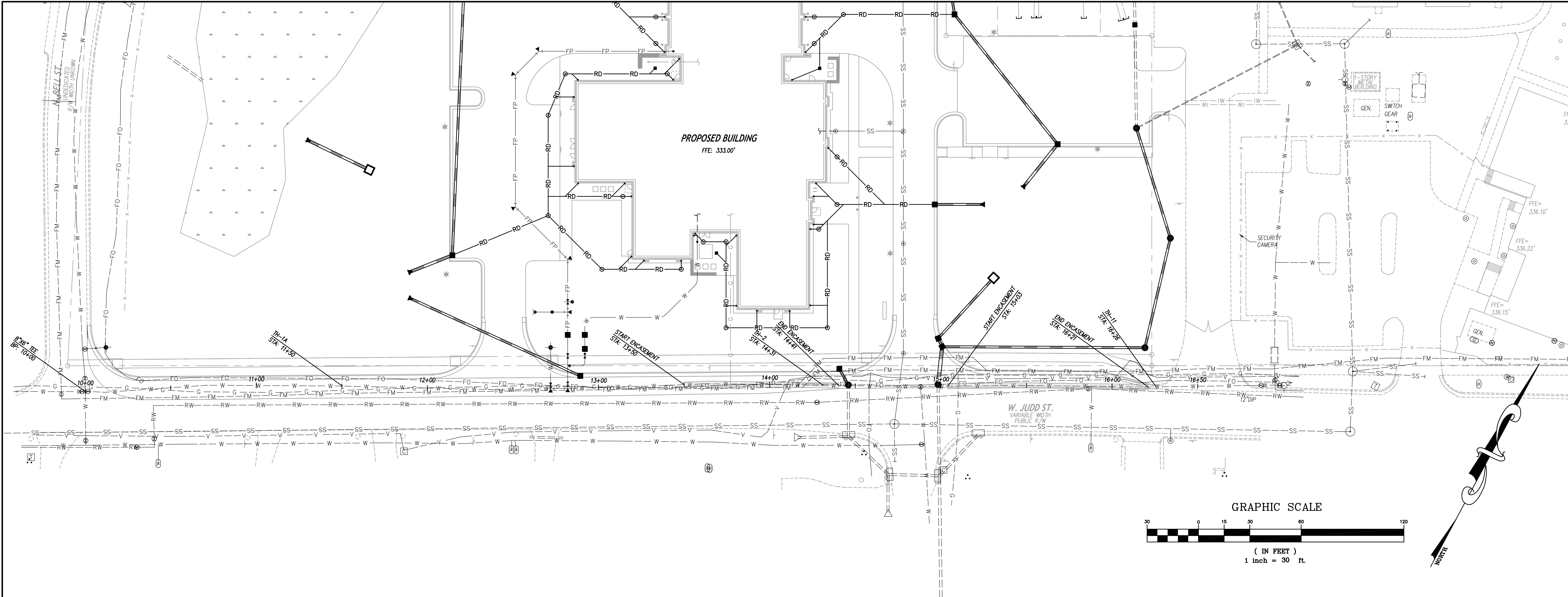
DATE 06-03-2025
CLH PROJECT NO 22-154

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

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SHEET NUMBER

C501



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ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

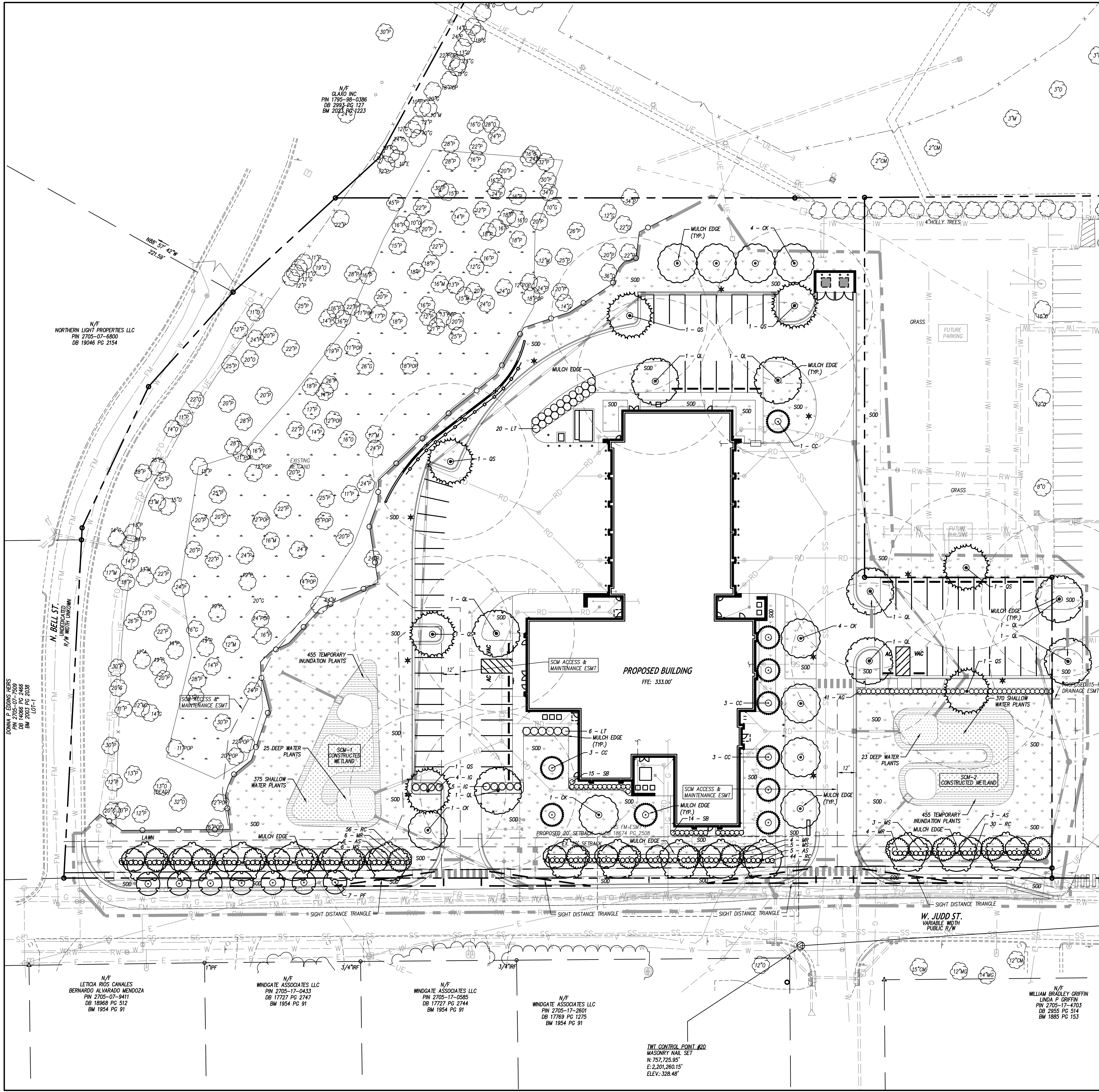
WATERLINE PLAN & PROFILE

| | | |
|----------------|------------|--------------|
| DATE | 06-03-2025 | |
| 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 | CAL | 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 | CLAUDASTIS 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. |
| SOIL | | | | | |
| 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 SUBCORDATUS - 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.
- SODDED AREA SHALL NOT BE MOWED AT SIDE SLOPES.

WETLAND SOIL MIX

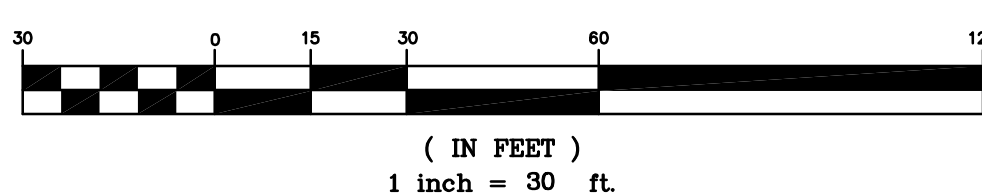
ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

- 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 JUDD 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-ASIDE:
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

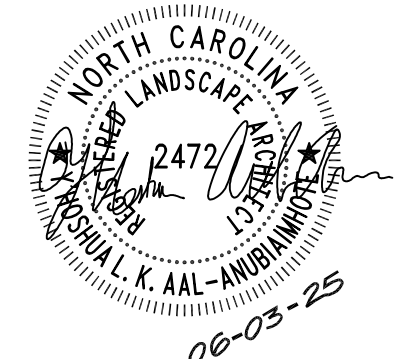
LANDSCAPE PLAN

DATE 06-03-2025

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-monitoring 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. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- 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

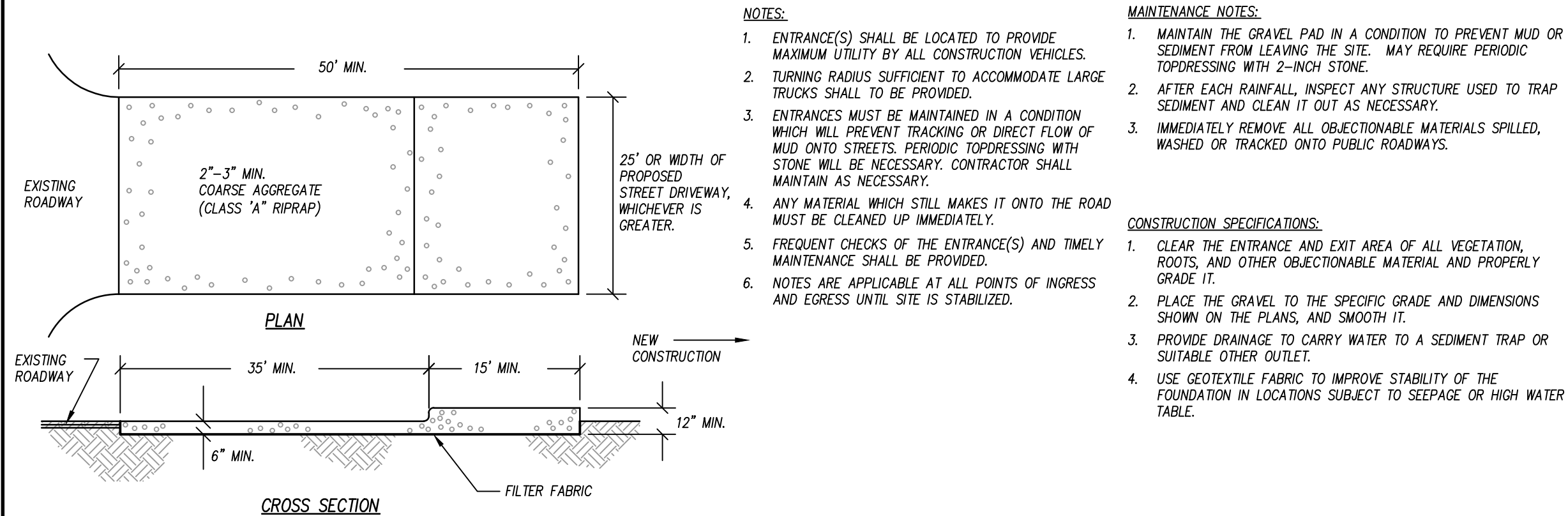
Permittees shall report the following occurrences:

- 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

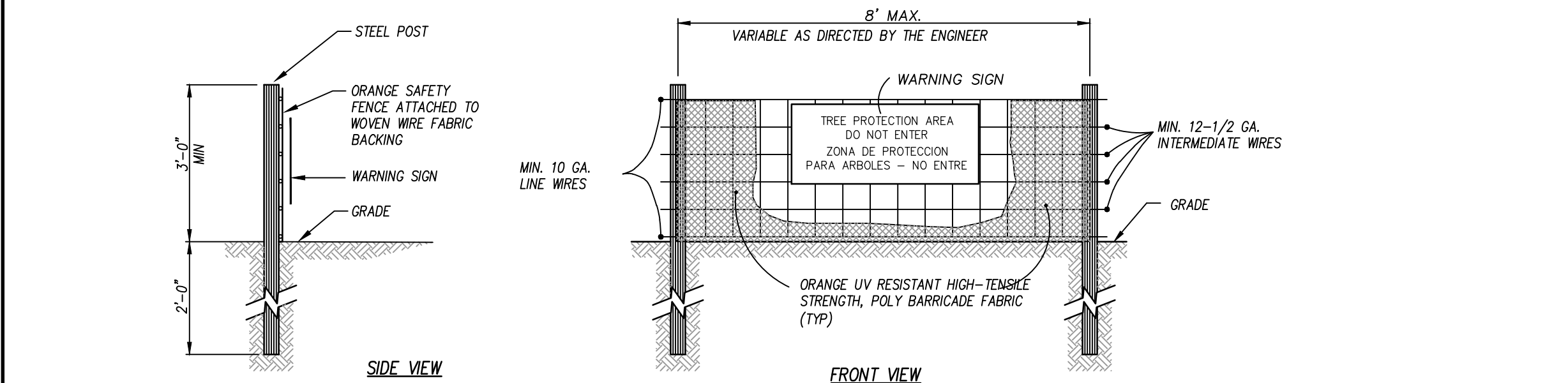
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental 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 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. |



GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

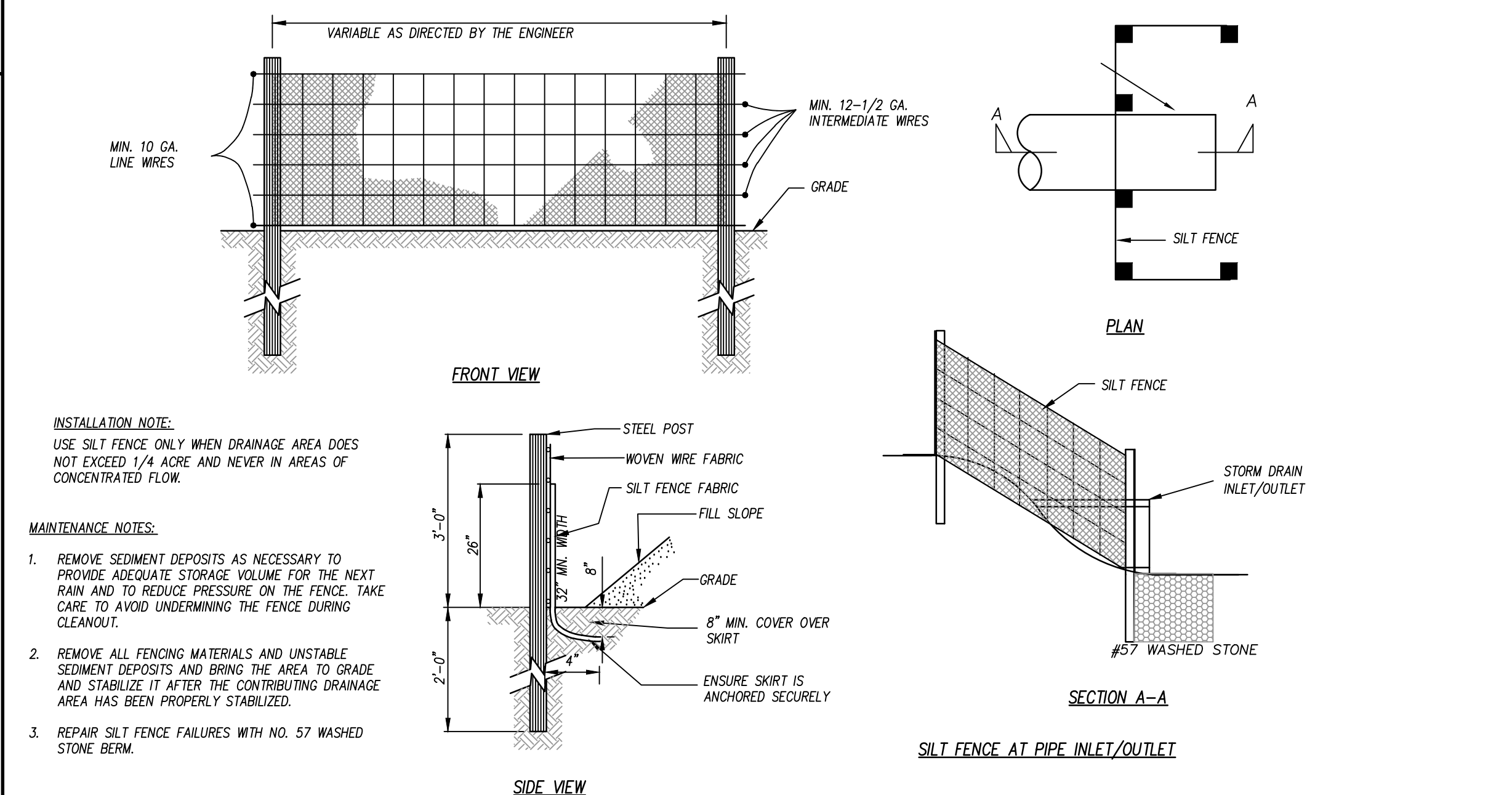


- NOTES:
- INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
 - WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 - LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 - SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END 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

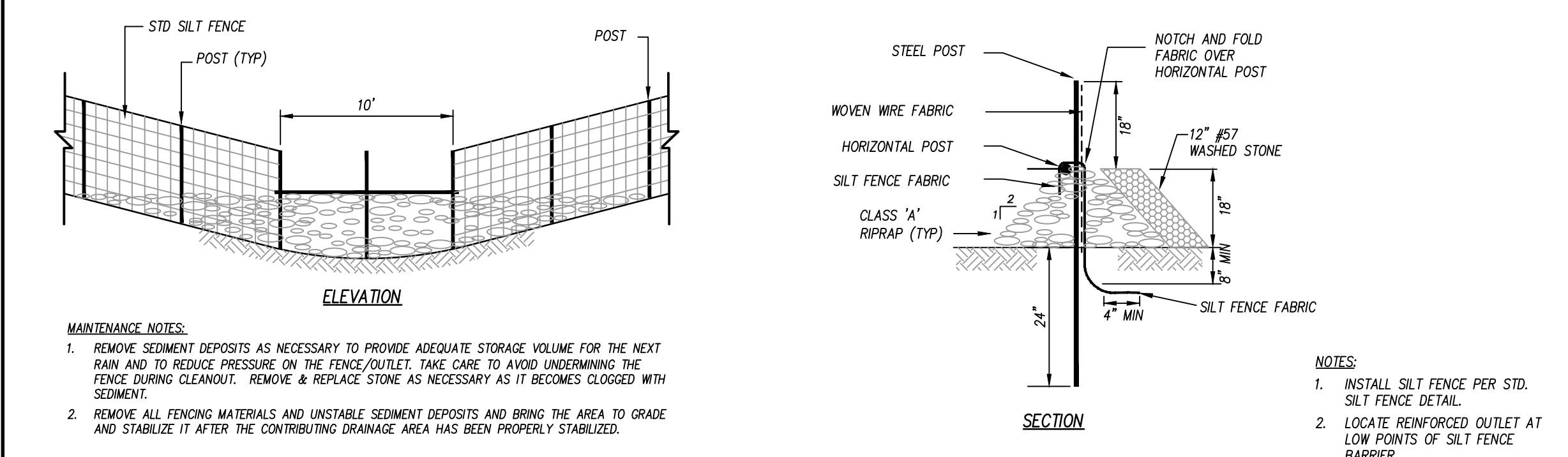
TEMPORARY TREE PROTECTION FENCE

N.T.S.



STANDARD TEMPORARY SILT FENCE

N.T.S.



REINFORCED SILT FENCE OUTLET

N.T.S.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

| Site Area Description | Stabilize within this many calendar days after ceasing land disturbance | Timeframe variations |
|--|---|---|
| (a) Perimeter dikes, swales, ditches, and perimeter slopes | 7 | None |
| (b) High Quality Water (HQW) Zones | 7 | None |
| (c) Slopes steeper than 3:1 | 7 | If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed. |
| (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.



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

NCDEQ STANDARD NOTES

N.T.S.

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**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

**EROSION CONTROL
DETAILS**

DATE 06-03-2025

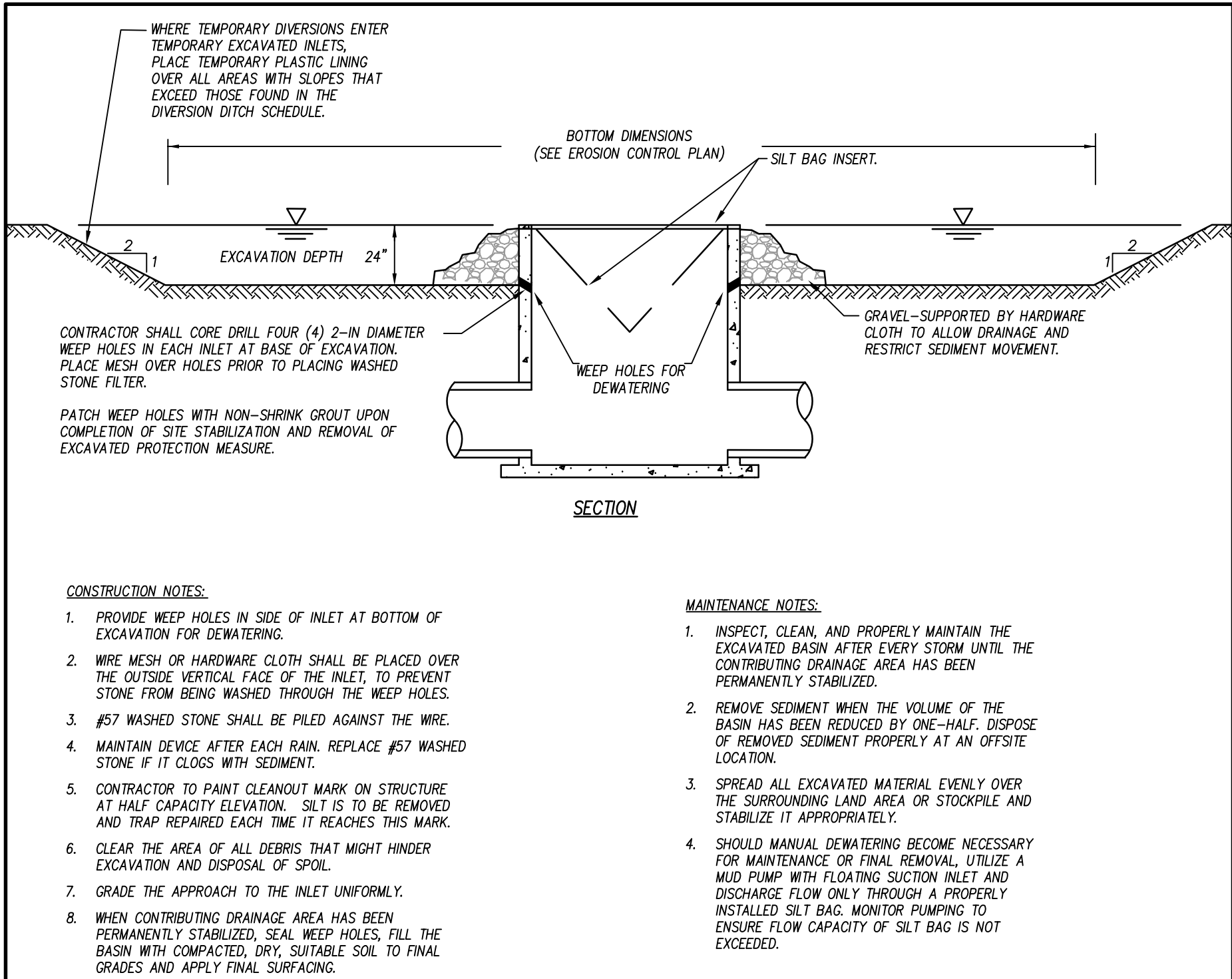
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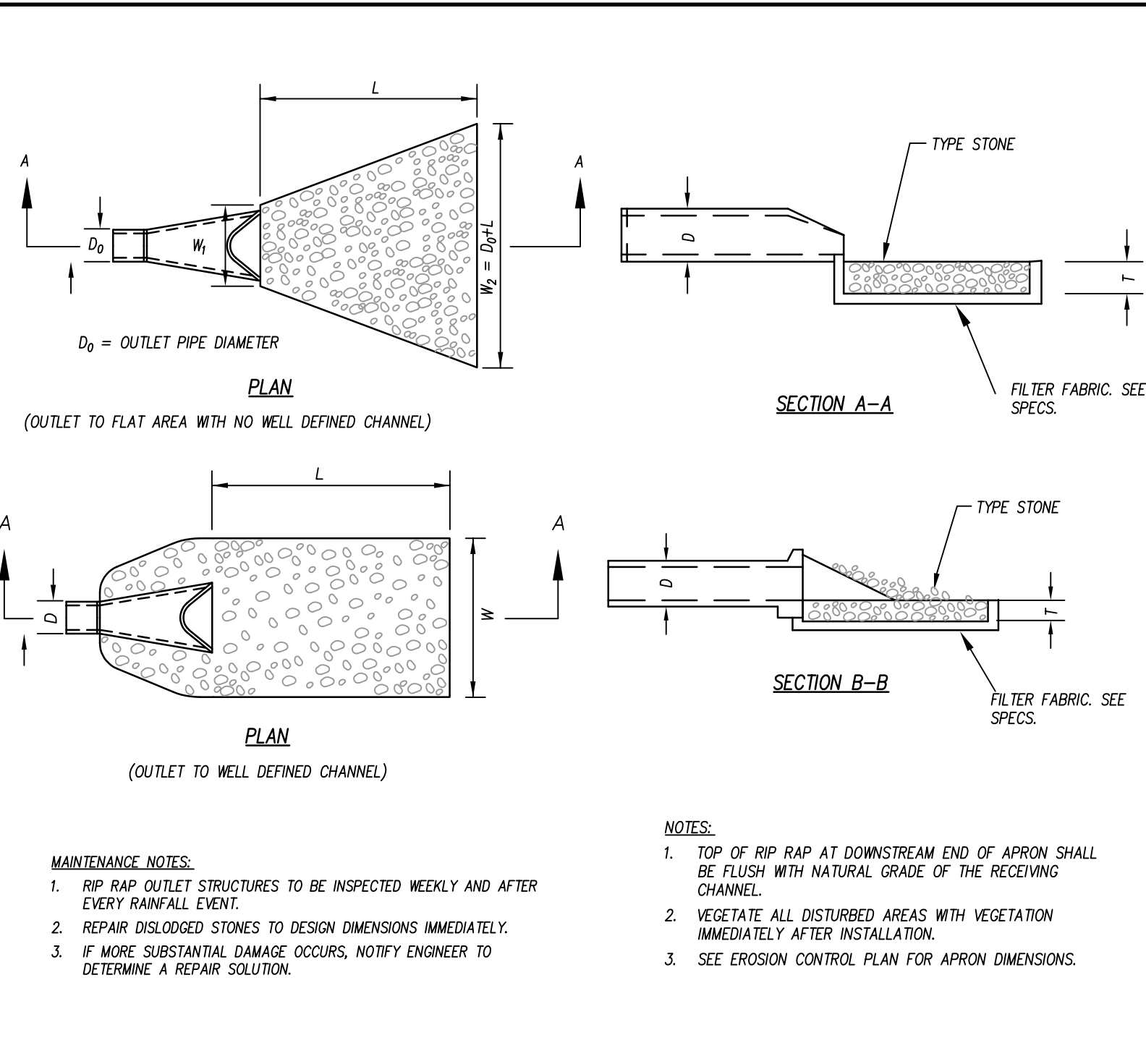
SHEET NUMBER

C701



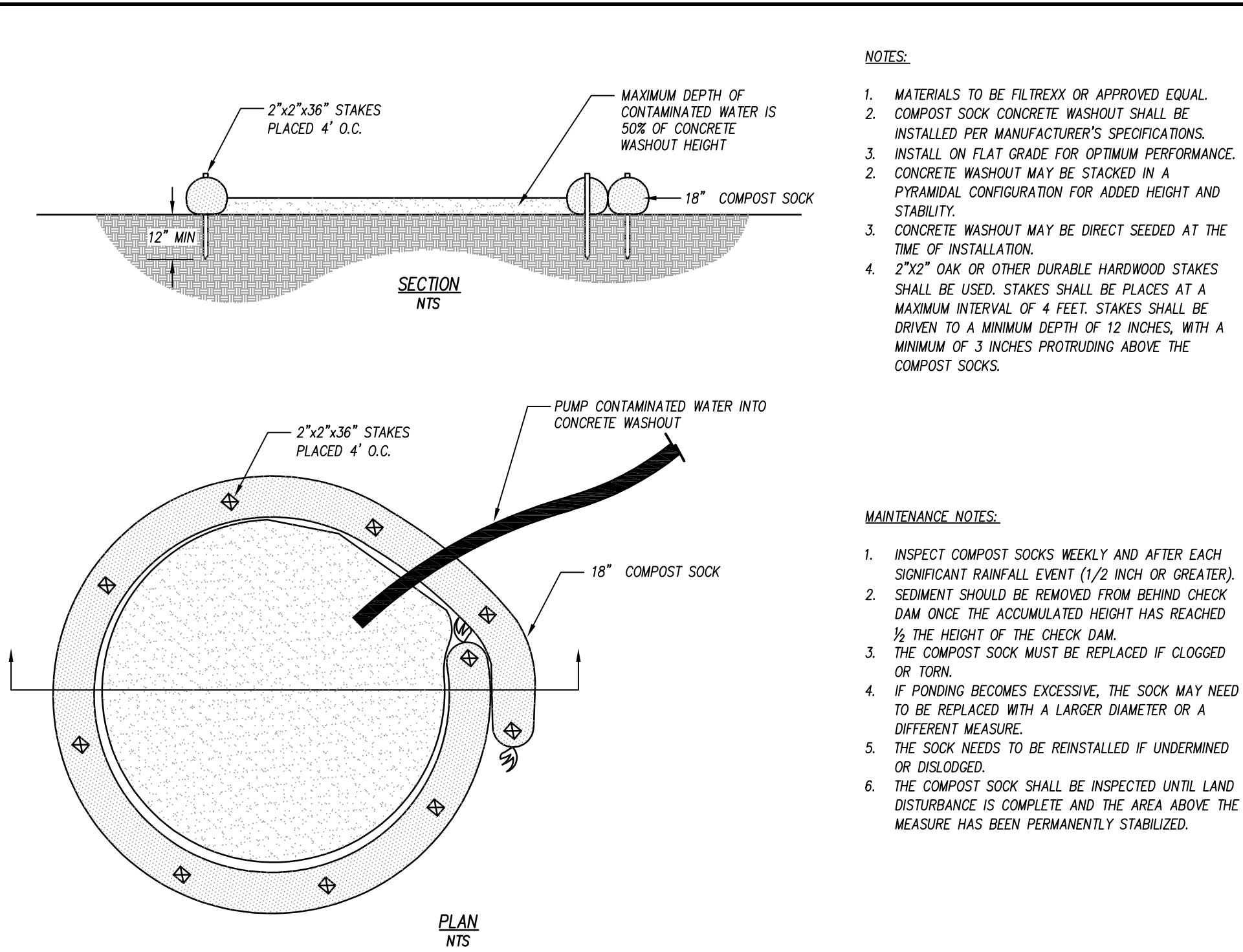
EXCAVATED INLET PROTECTION

N.T.S.



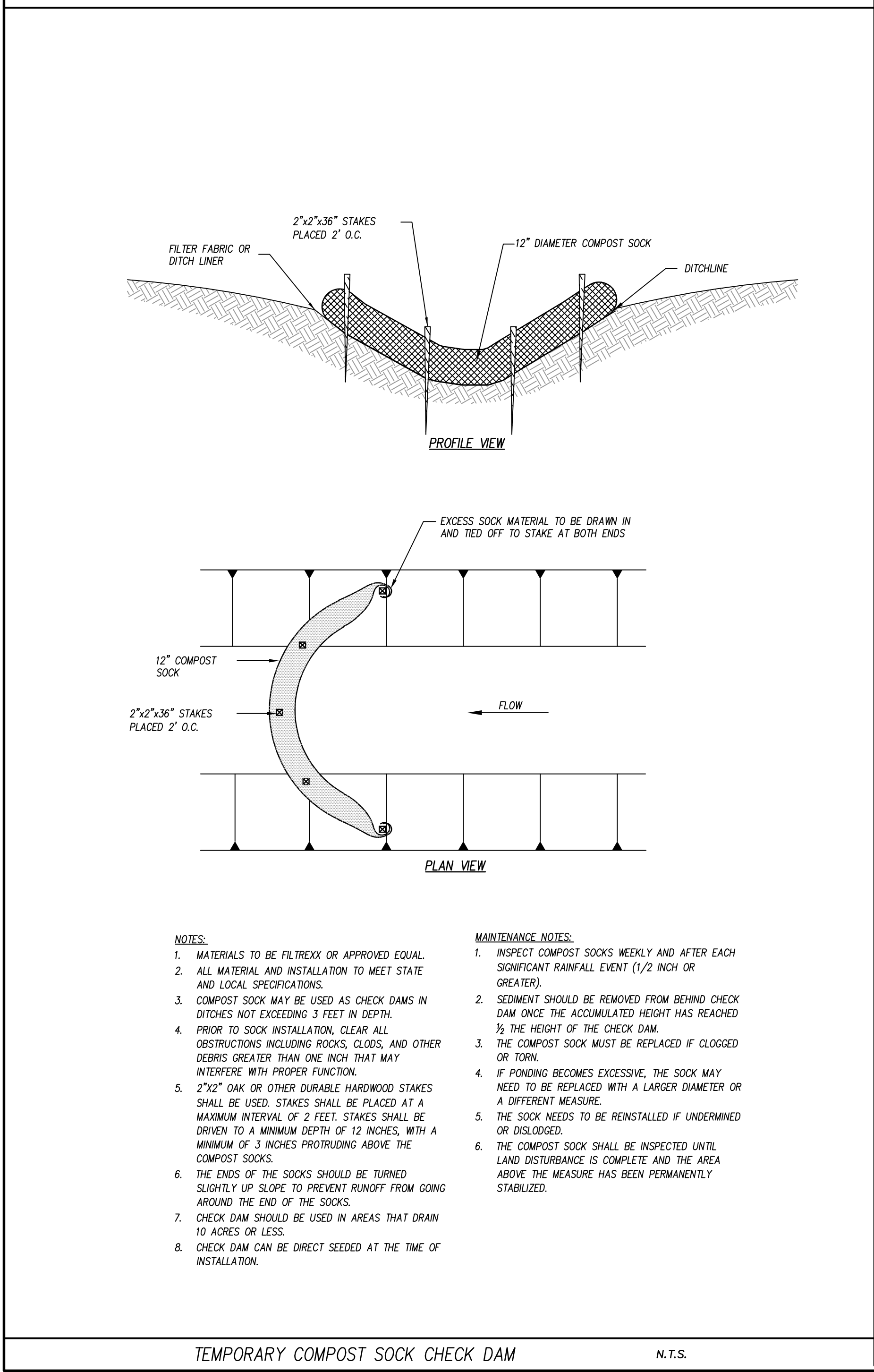
OUTLET PROTECTION

N.T.S.



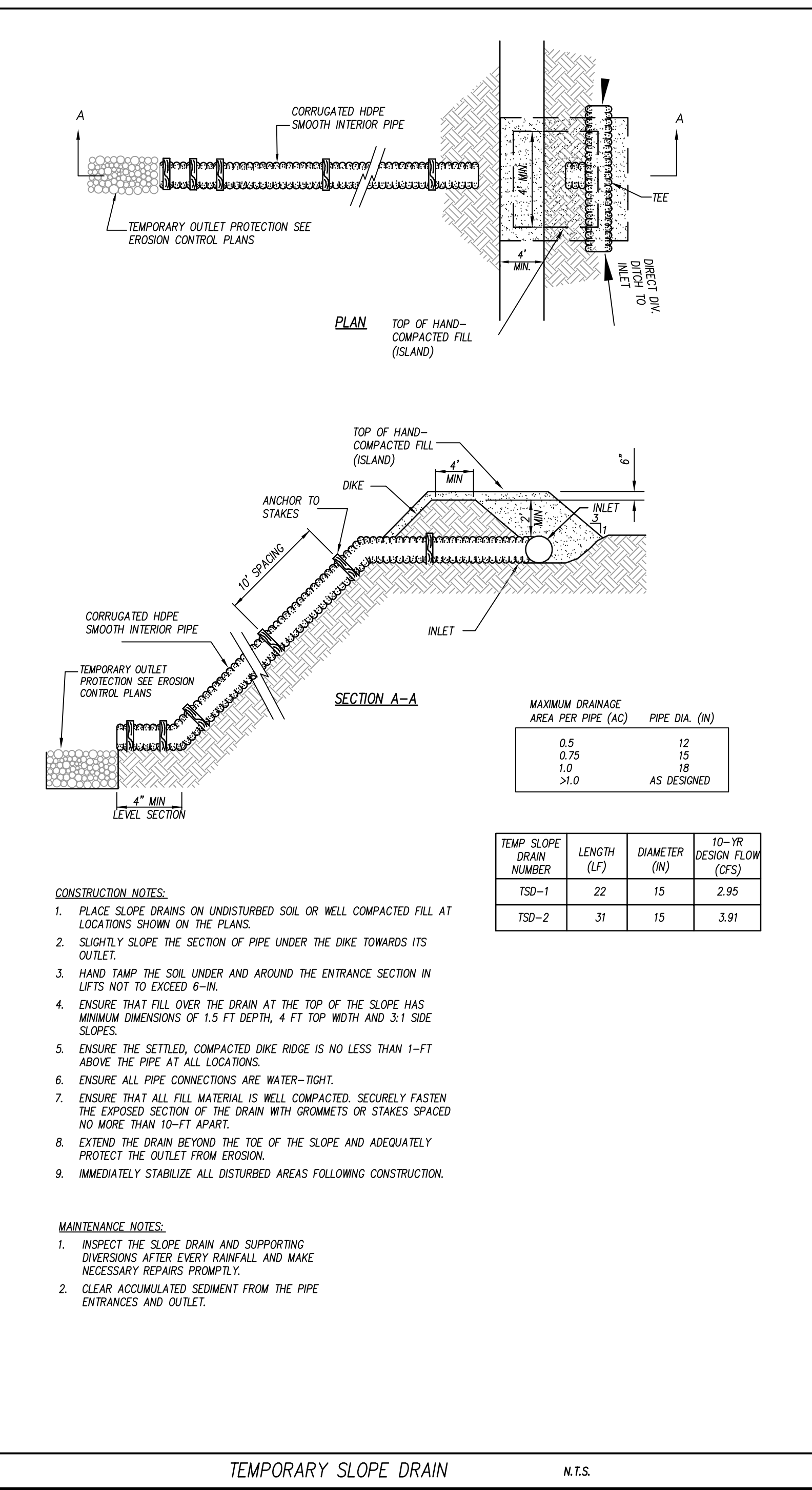
TEMPORARY COMPOST SOCK CONCRETE WASHOUT

N.T.S.



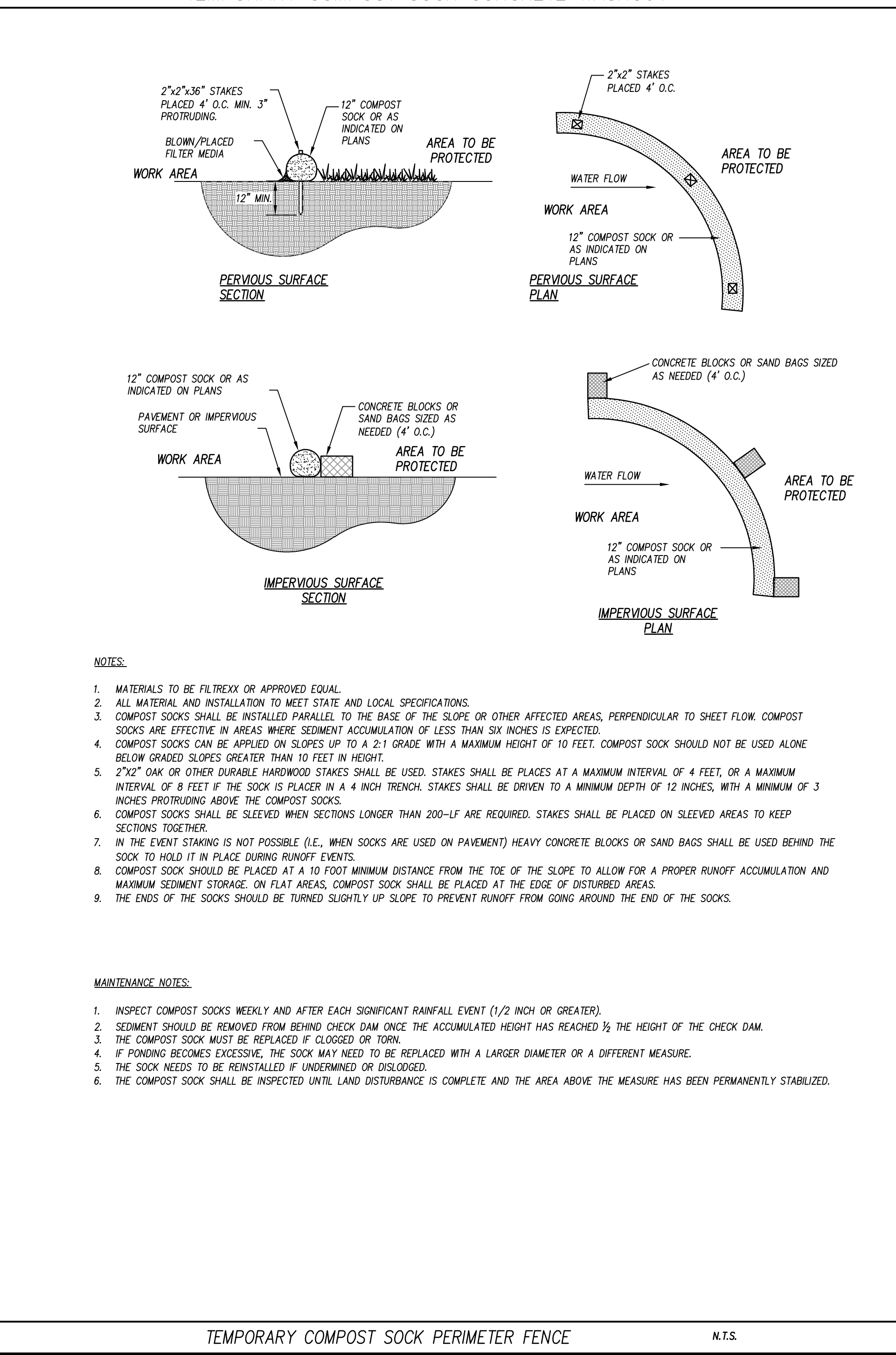
TEMPORARY COMPOST SOCK CHECK DAM

N.T.S.



TEMPORARY SLOPE DRAIN

N.T.S.



TEMPORARY COMPOST SOCK PERIMETER FENCE

N.T.S.

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CONSTRUCTION DOCUMENTS

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DETAILS**

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SHEET NUMBER

C703

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.
- 1.5. EXCAVATE WETLAND TO TEMPORARY SKIMMER BASIN DIMENSIONS, SEE EROSION CONTROL PLAN.
- 1.6. INSTALL BAFFLES AND OTHER TEMPORARY SKIMMER BASIN COMPONENTS.
- 1.7. 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.

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 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.

CLAY LINER

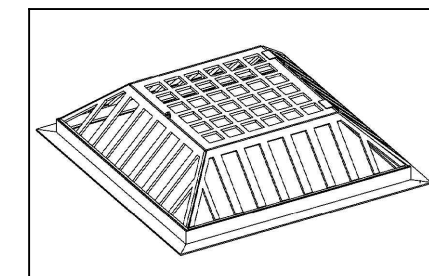
CONTRACTOR SHALL FURNISH AND INSTALL A 6-IN THICK LAYER OF COMPACTED CLAY BENEATH THE WETLAND TOPSOIL IF DEEMED NECESSARY BY THE OWNER.

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.

TOPSOIL

- 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.

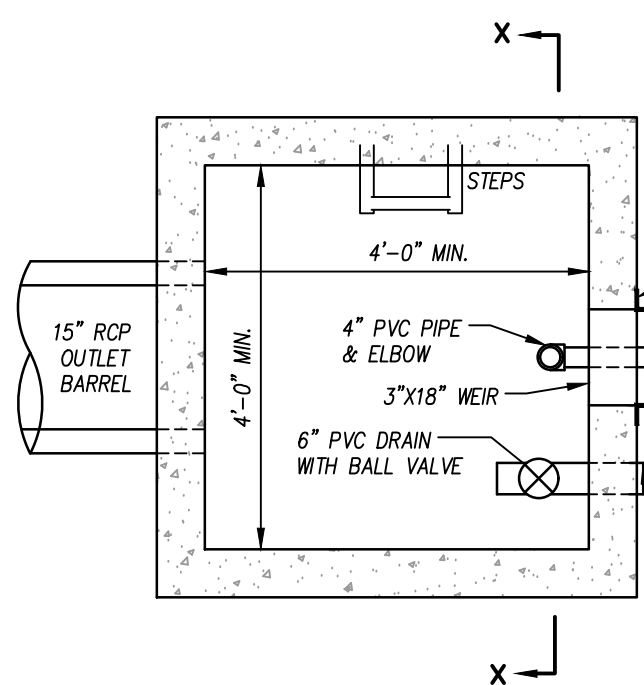
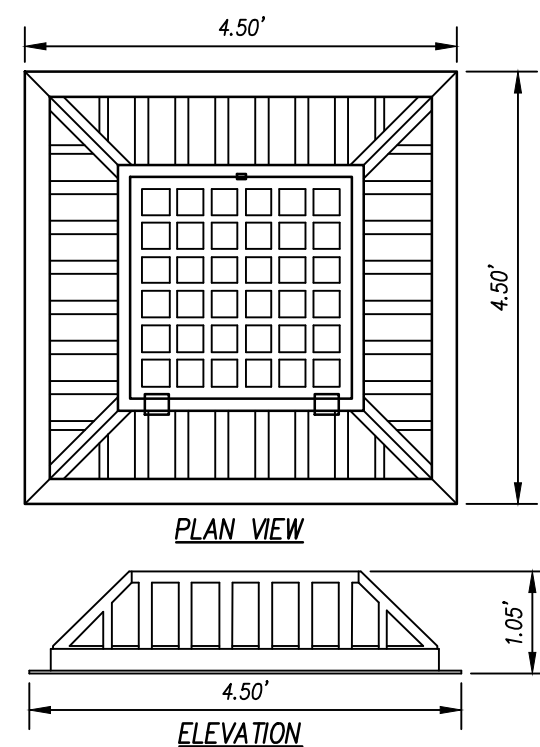


ISOMETRIC

- 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.

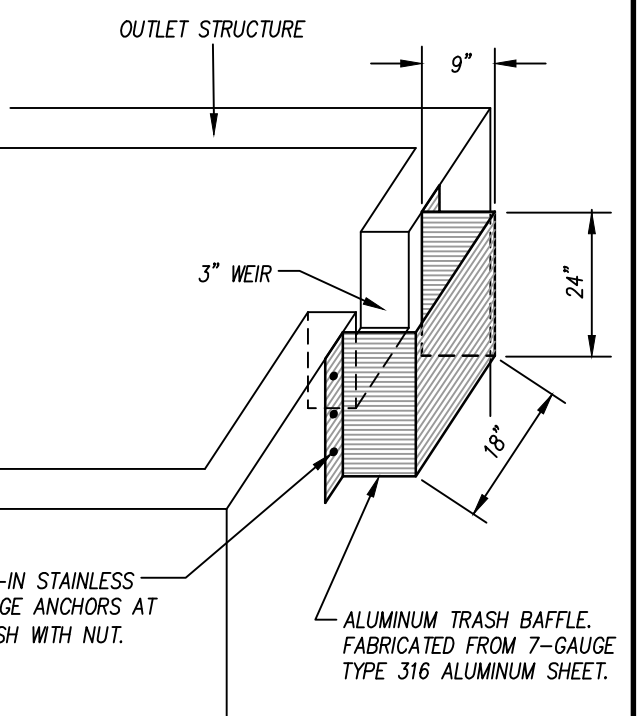
TRASH RACK DETAIL

SCALE: N.T.S.



RISER PLAN

SCALE: N.T.S.

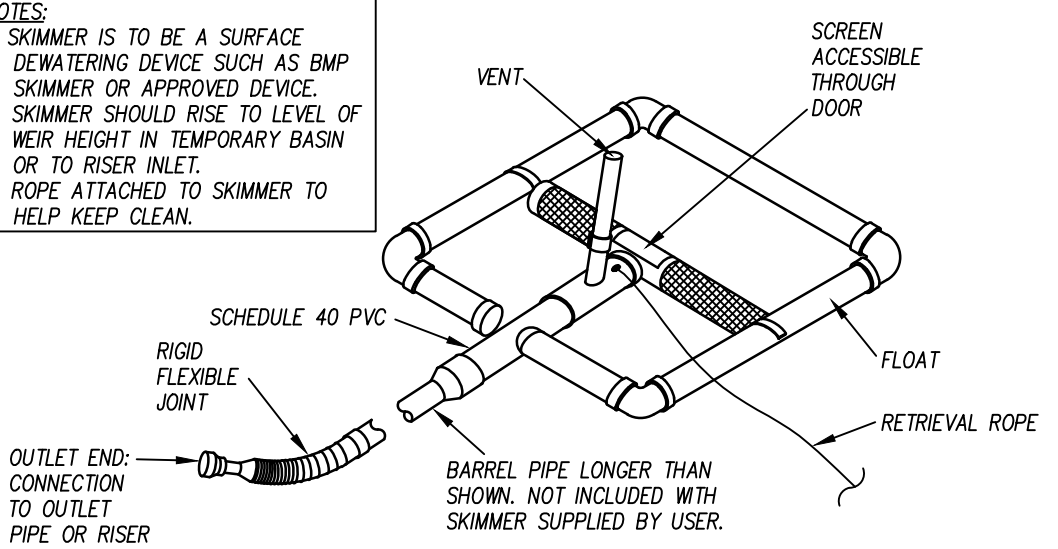


ALUMINUM TRASH BAFFLE

DETAIL

SCALE: N.T.S.

- NOTES:
1. SKIMMER IS TO BE A SURFACE DEWATERING DEVICE SUCH AS BMP SKIMMER OR APPROVED DEVICE.
 2. SKIMMER SHOULD RISE TO LEVEL OF WEIR HEIGHT IN TEMPORARY BASIN OR TO RISER INLET.
 3. ROPE ATTACHED TO SKIMMER TO HELP KEEP CLEAN.

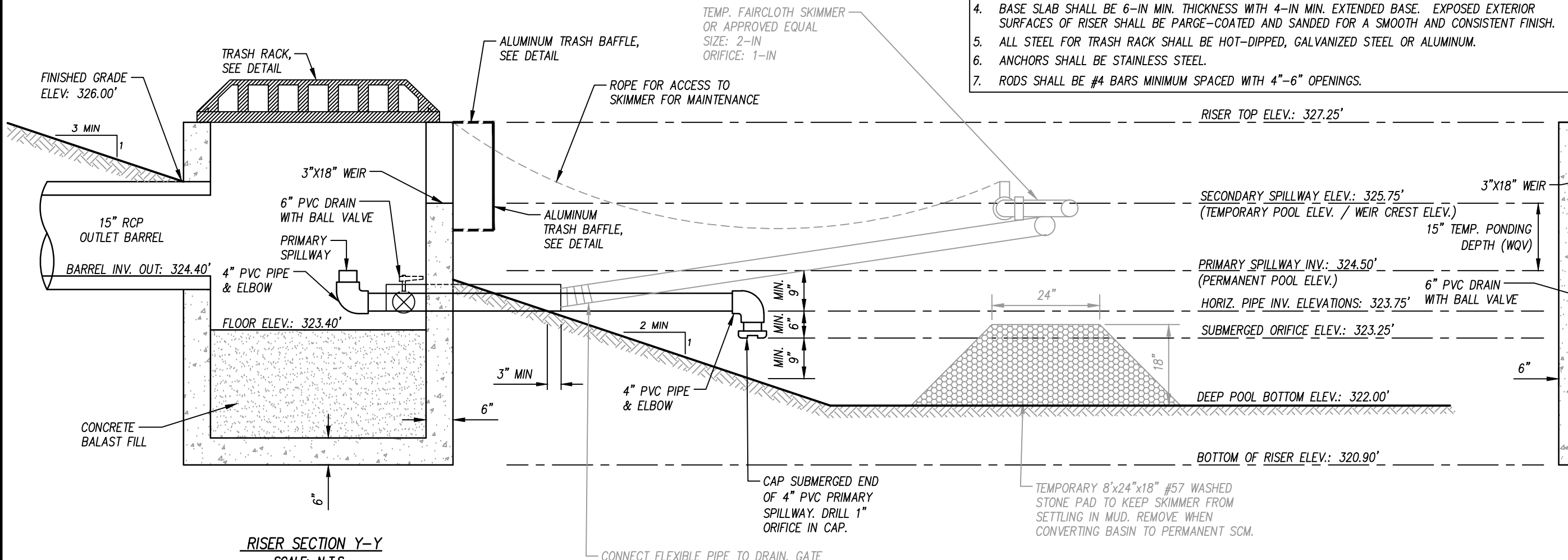
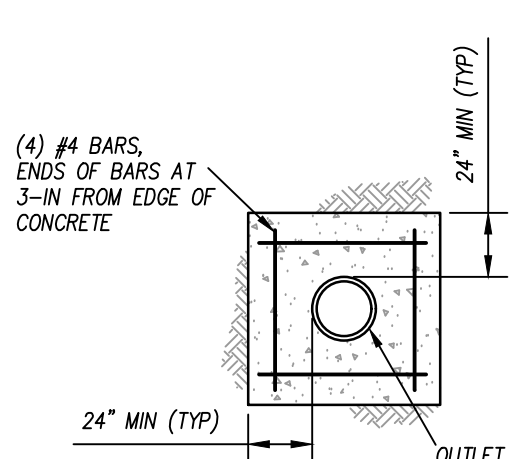


TEMPORARY SKIMMER

SCALE: N.T.S.

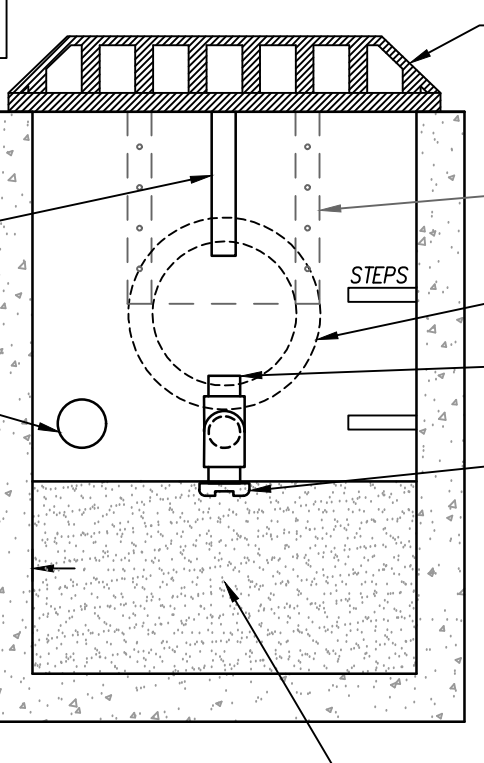
ANTI-SEEP COLLAR DETAIL

SCALE: N.T.S.



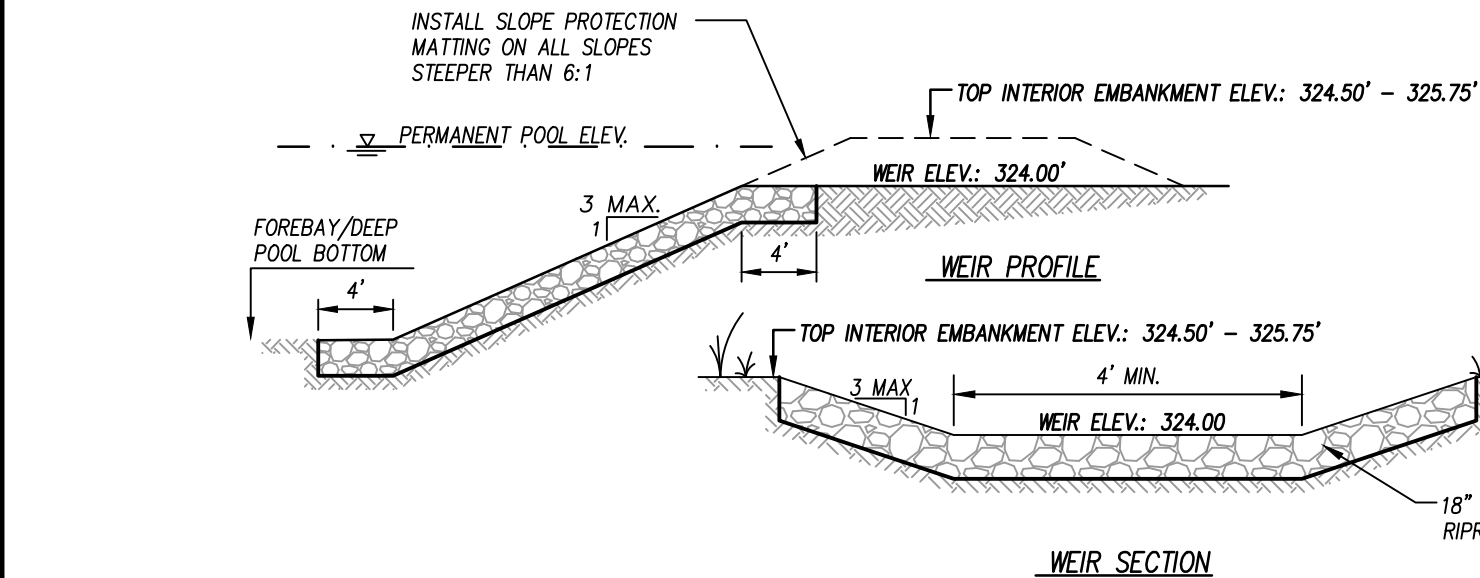
RISER SECTION Y-Y

SCALE: N.T.S.



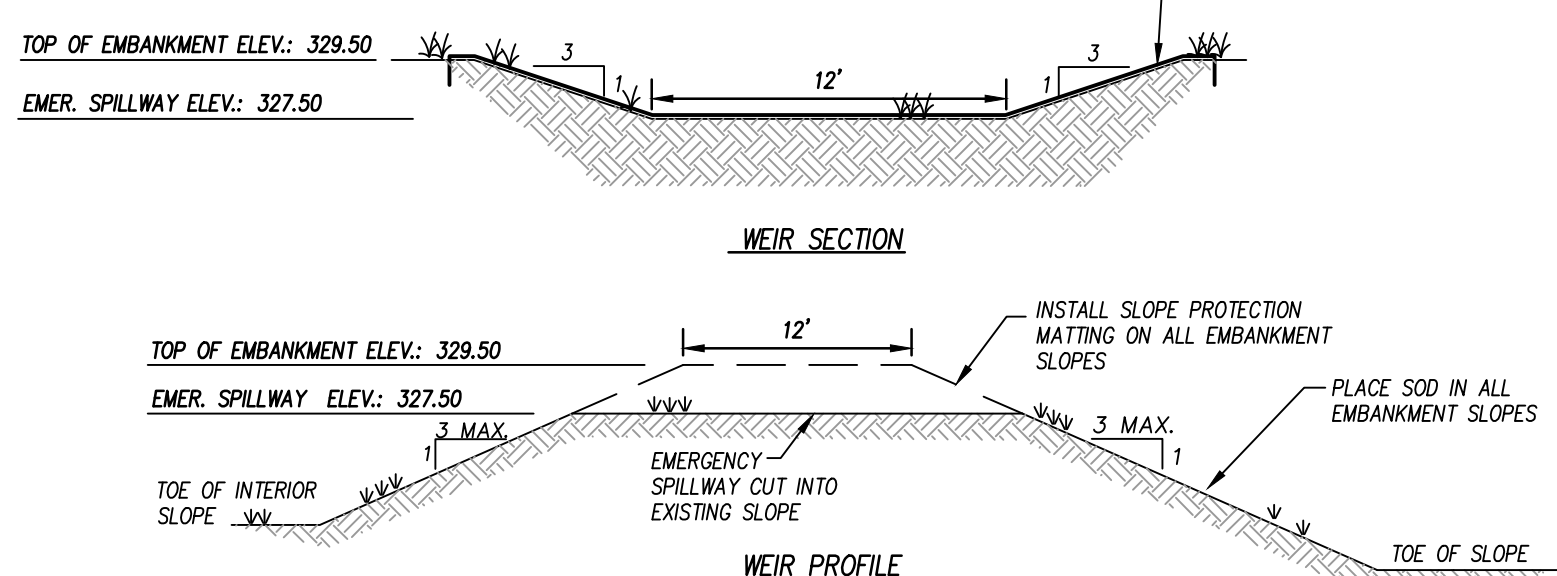
RISER SECTION X-X

SCALE: N.T.S.



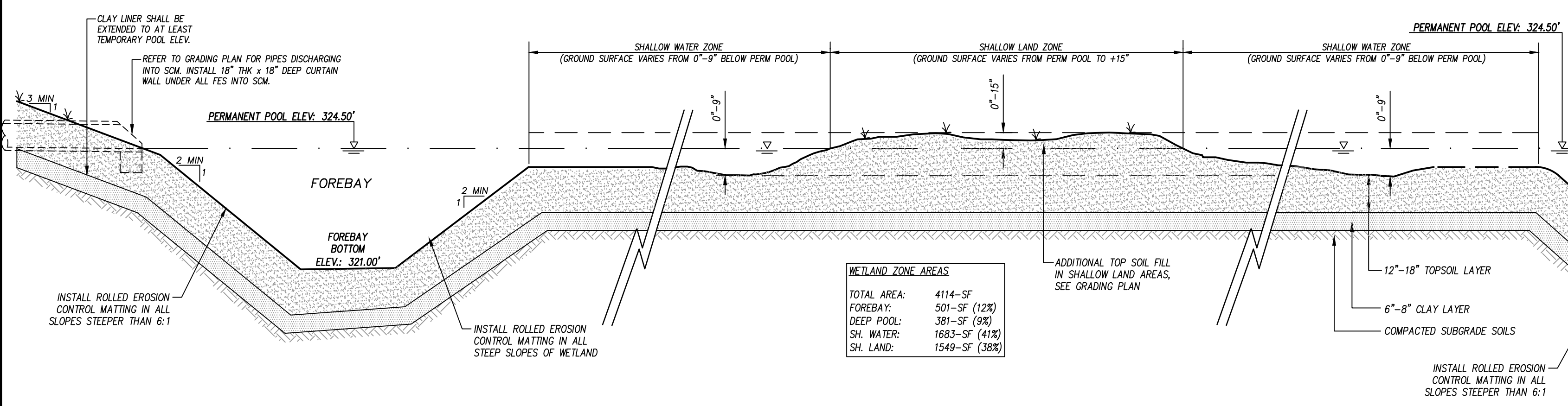
ARMORED WEIR DETAIL

SCALE: N.T.S.



EMERGENCY SPILLWAY DETAIL

SCALE: N.T.S.

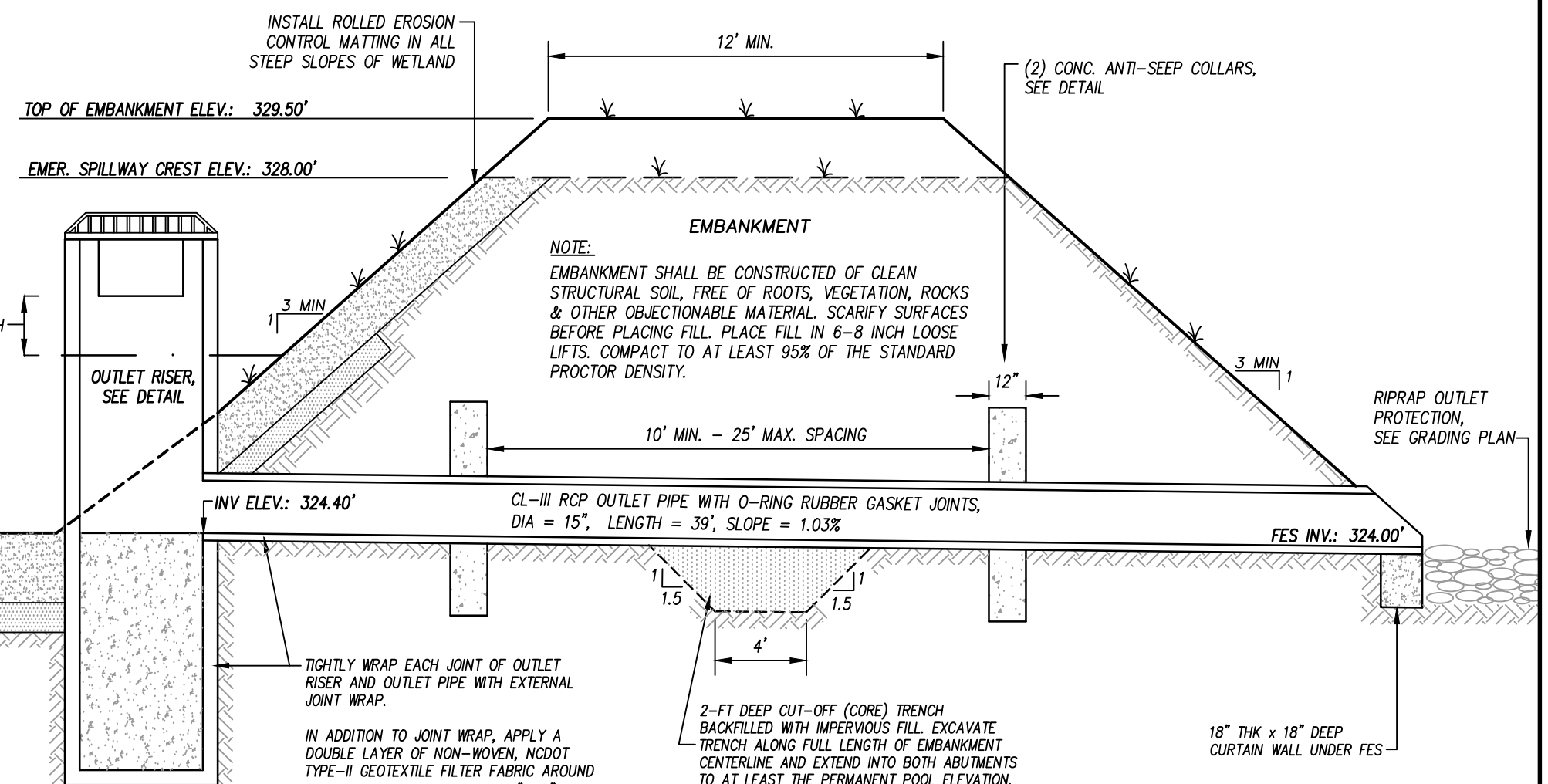


WETLAND SECTION

SCALE: N.T.S.

| WETLAND ZONE AREAS | |
|--------------------|---------------|
| TOTAL AREA: | 4114-SF |
| FOREBAY: | 501-SF (12%) |
| DEEP POOL: | 381-SF (9%) |
| SH. WATER: | 1683-SF (41%) |
| SH. LAND: | 1549-SF (38%) |

| DESIGN STORM ELEVATIONS | |
|-------------------------|---------|
| 100-YR. 24-HR: | 327.19' |
| 10-YR. 24-HR: | 326.58' |
| 1-YR. 24-HR: | 325.84' |
| 1" TREATMENT: | 325.66' |



NOTE: EMBANKMENT SHALL BE CONSTRUCTED OF CLEAN STRUCTURAL SOIL, FREE OF ROOTS, VEGETATION, ROCKS & OTHER OBJECTIONABLE MATERIAL. SCARIFY SURFACES BEFORE PLACING FILL. PLACE FILL IN 6-8 INCH LOOSE LIFTS. COMPACT TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY.

ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

WETLAND DETAILS

DATE 06-03-2025

CLH PROJECT NO 22-154

| REVISIONS | | |
|-----------|---------|-------------|
| NO | DATE | DESCRIPTION |
| 1 | 5/30/25 | ADDENDUM #1 |

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SHEET NUMBER

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.
- 1.5. EXCAVATE WETLAND TO TEMPORARY SKIMMER BASIN DIMENSIONS, SEE EROSION CONTROL PLAN.
- 1.6. INSTALL BAFFLES AND OTHER TEMPORARY SKIMMER BASIN COMPONENTS.
- 1.7. 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.
- 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.

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 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.

CLAY LINER

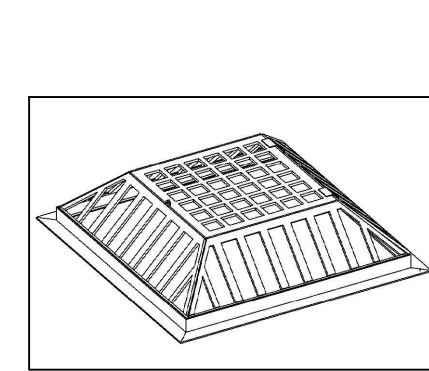
CONTRACTOR SHALL FURNISH AND INSTALL A 6-IN THICK LAYER OF COMPACTED CLAY BENEATH THE WETLAND TOPSOIL IF DEEMED NECESSARY BY THE OWNER.

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.

TOPSOIL

- 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.

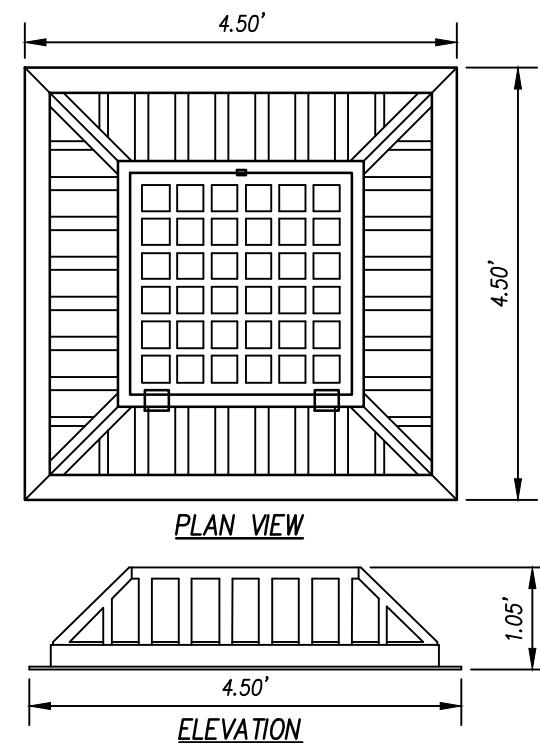


ISOMETRIC

- 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.

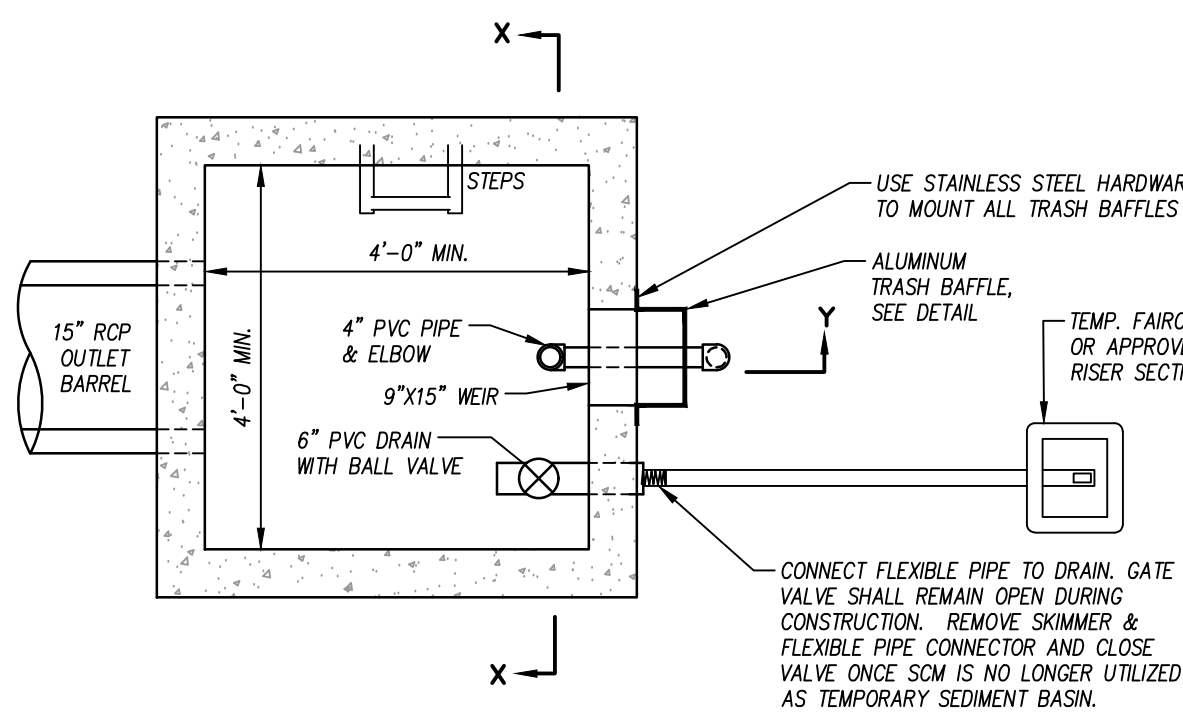
TRASH RACK DETAIL

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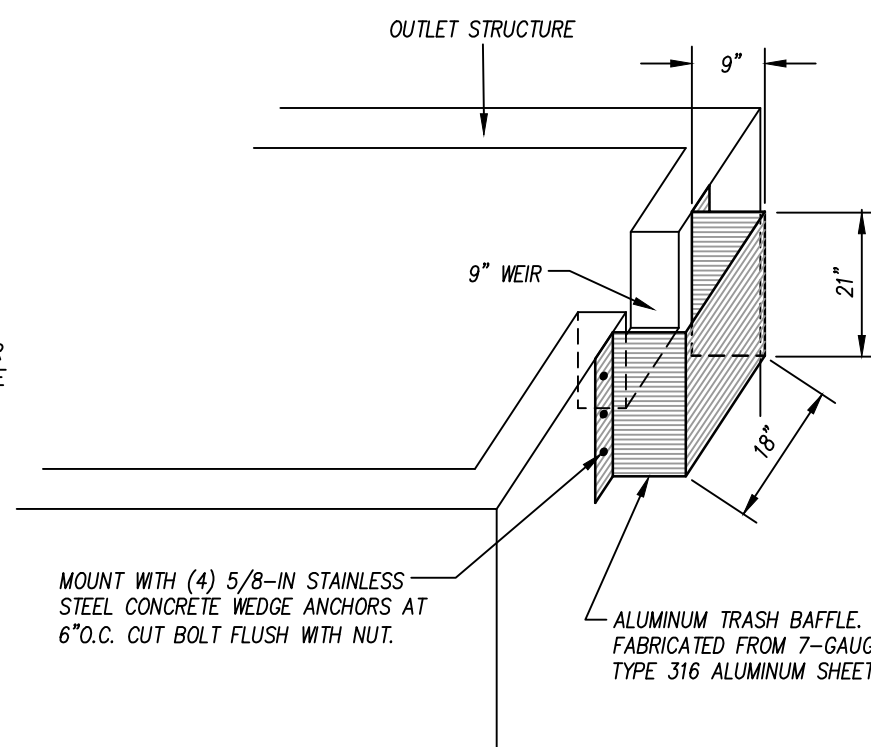
TRASH RACK DETAIL

SCALE: N.T.S.



RISER PLAN

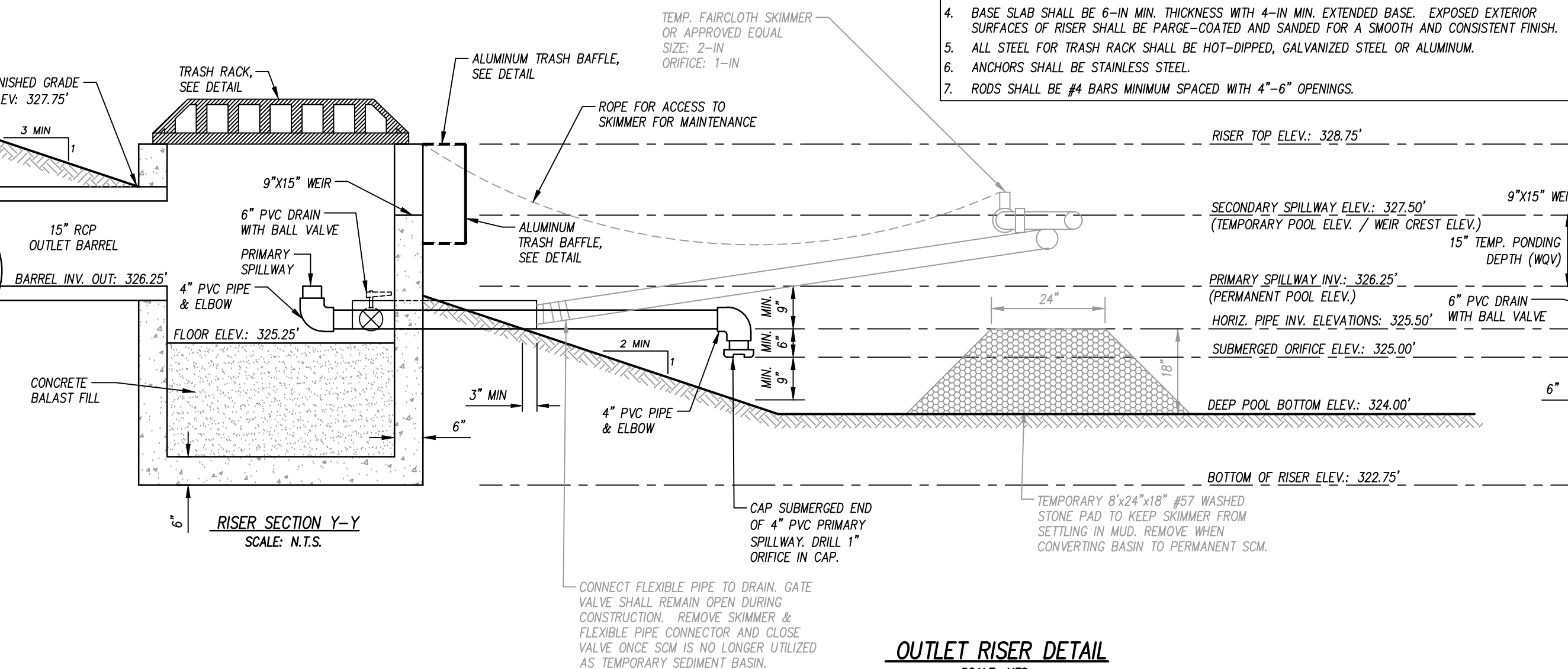
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ALUMINUM TRASH BAFFLE

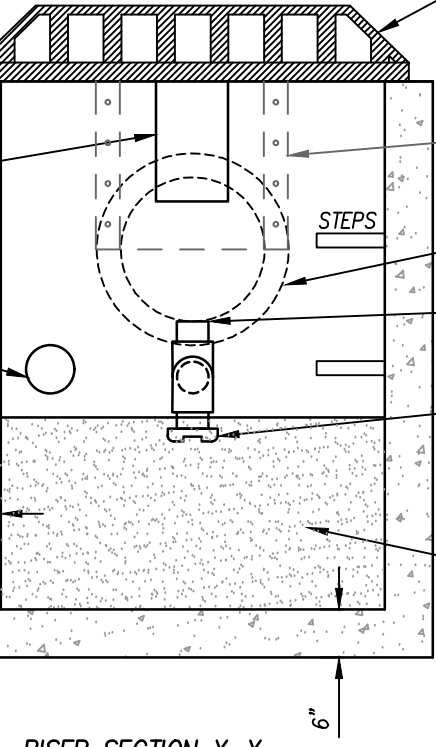
DETAIL

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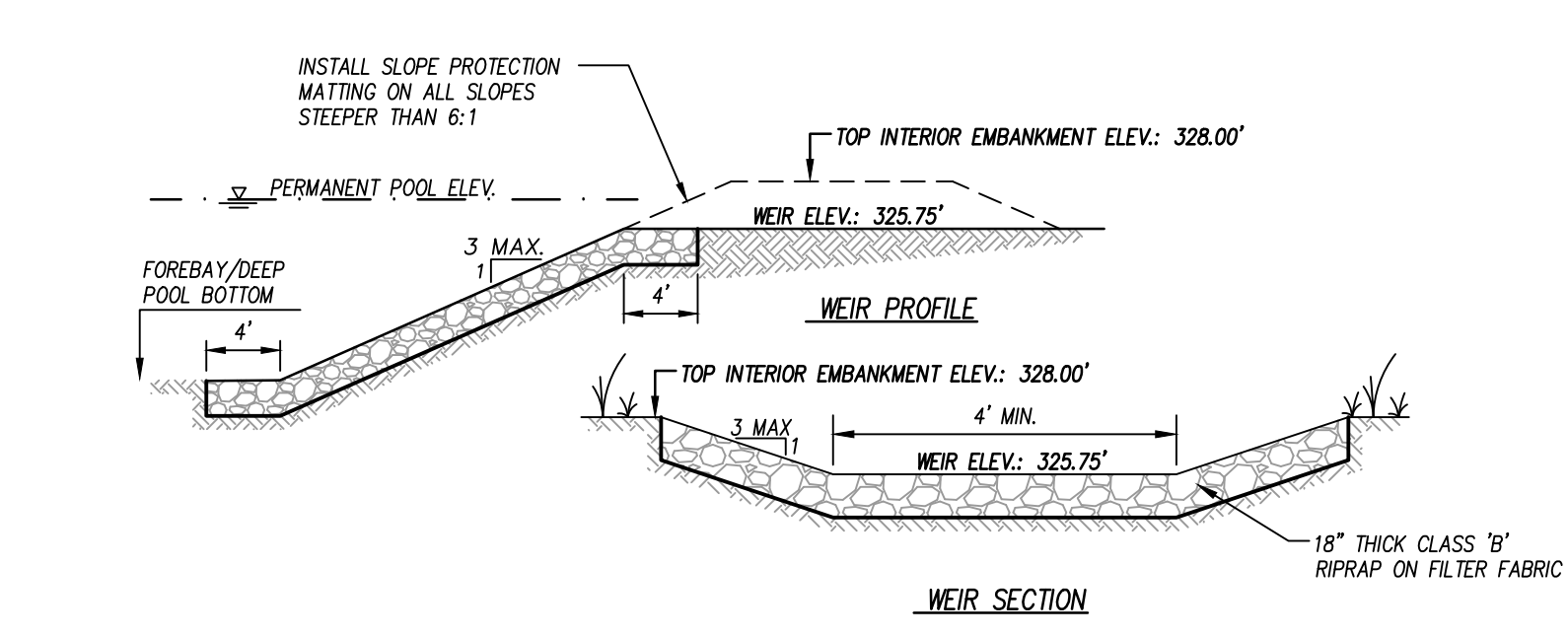
RISER SECTION Y-Y

SCALE: N.T.S.



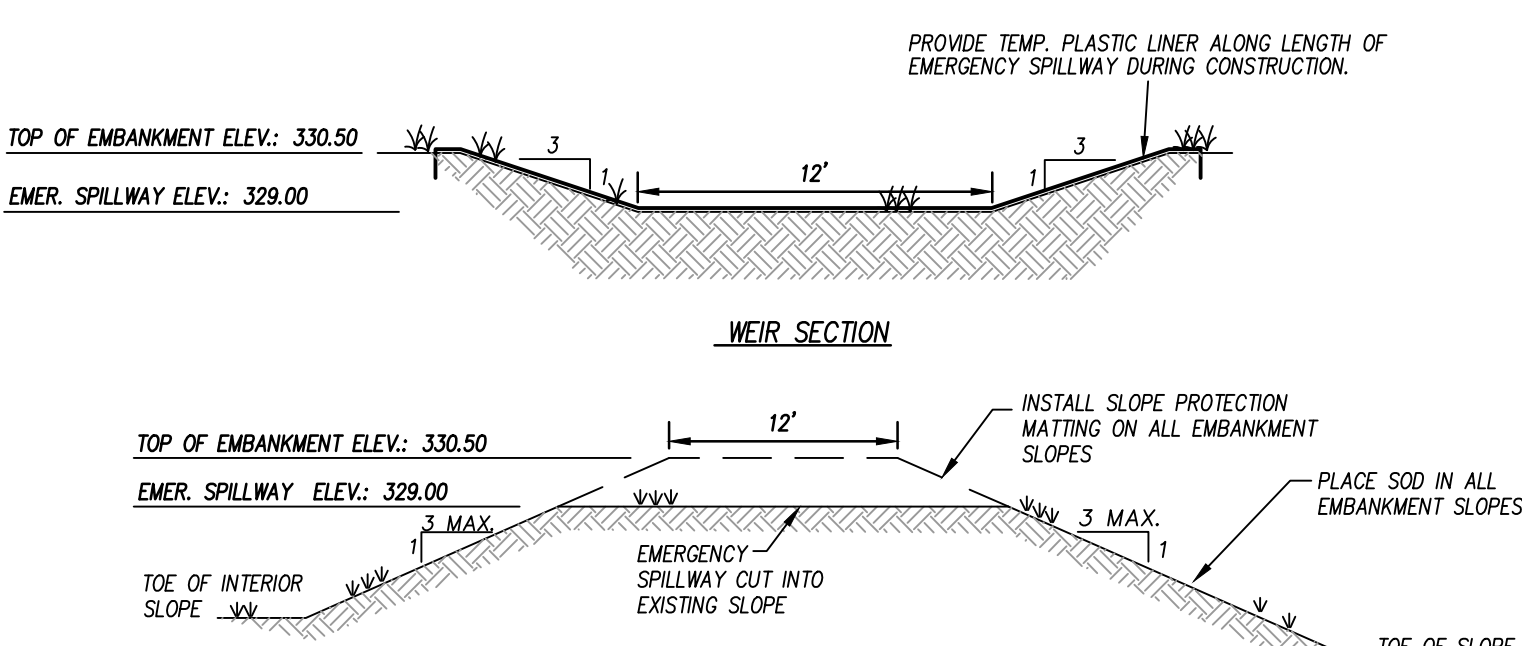
RISER SECTION X-X

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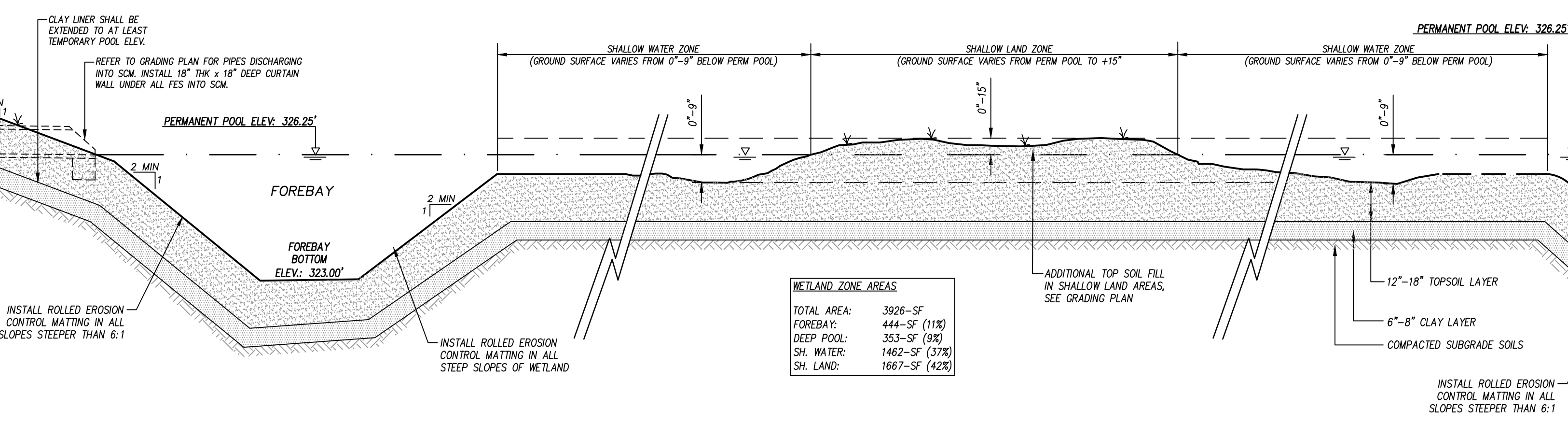
ARMORED WEIR DETAIL

SCALE: N.T.S.



EMERGENCY SPILLWAY DETAIL

SCALE: N.T.S.

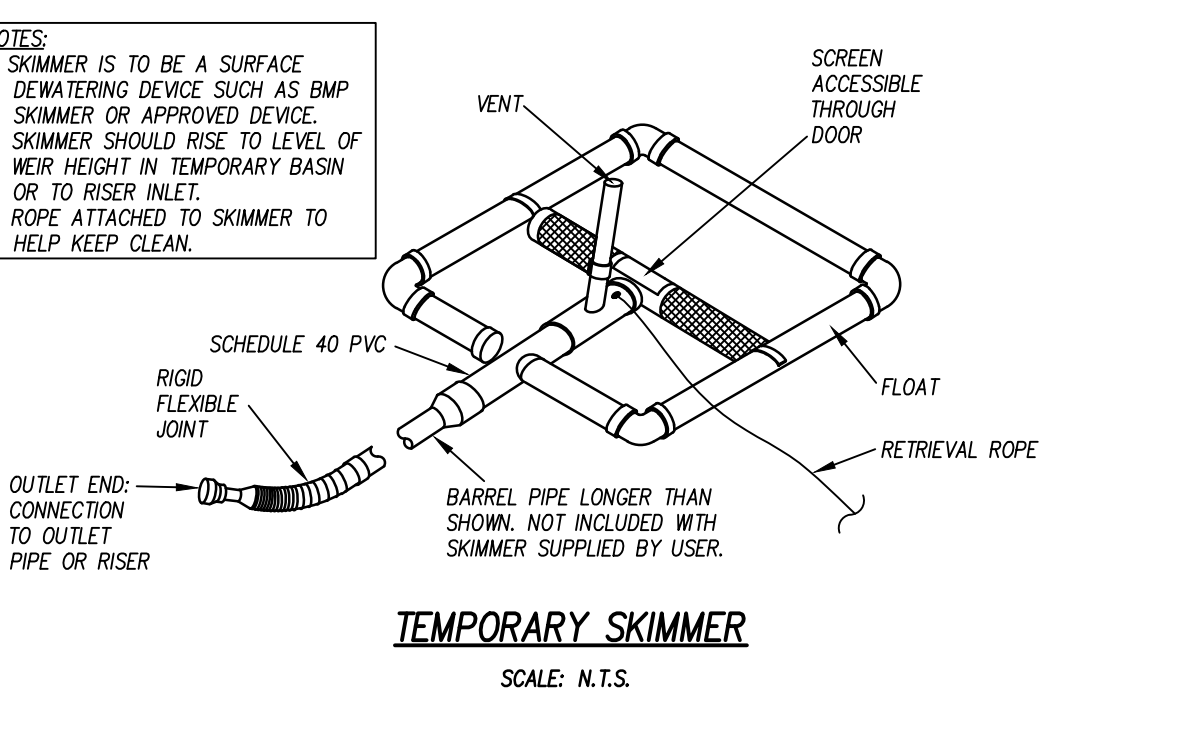


WETLAND SECTION

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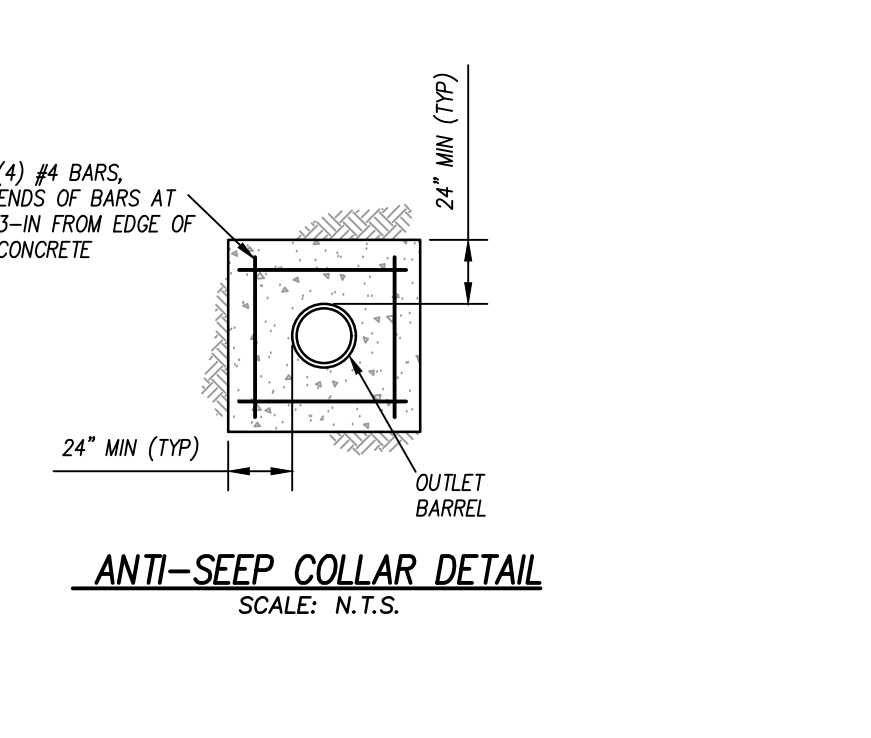
DESIGN STORM ELEVATIONS

| | |
|----------------|---------|
| 100-YR, 24-HR: | 328.12' |
| 10-YR, 24-HR: | 328.38' |
| 1-YR, 24-HR: | 327.58' |
| 1" TREATMENT: | 327.36' |



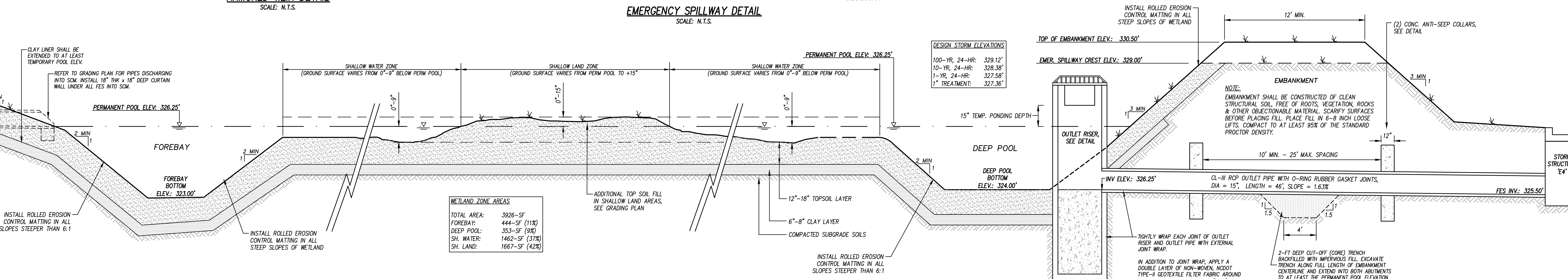
TEMPORARY SKIMMER

SCALE: N.T.S.



ANTI-SEEP COLLAR DETAIL

SCALE: N.T.S.

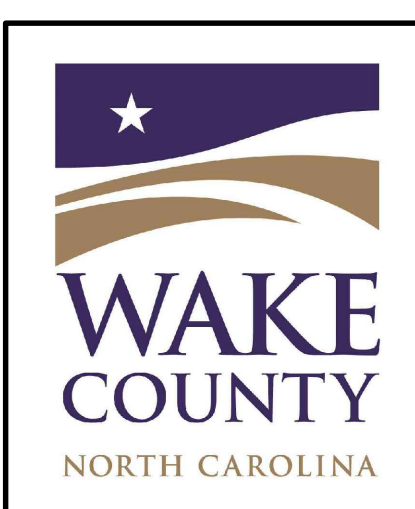


WETLAND ZONE AREAS

| | |
|-------------|---------------|
| TOTAL AREA: | 3926-SF |
| FOREBAY: | 444-SF (11%) |
| DEEP POOL: | 353-SF (9%) |
| SH. WATER: | 1462-SF (37%) |
| SH. LAND: | 1667-SF (42%) |

DESIGN STORM ELEVATIONS

| | |
|----------------|---------|
| 100-YR, 24-HR: | 328.12' |
| 10-YR, 24-HR: | 328.38' |
| 1-YR, 24-HR: | 327.58' |
| 1" TREATMENT: | 327.36' |



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

WETLAND DETAILS

DATE 06-03-2025

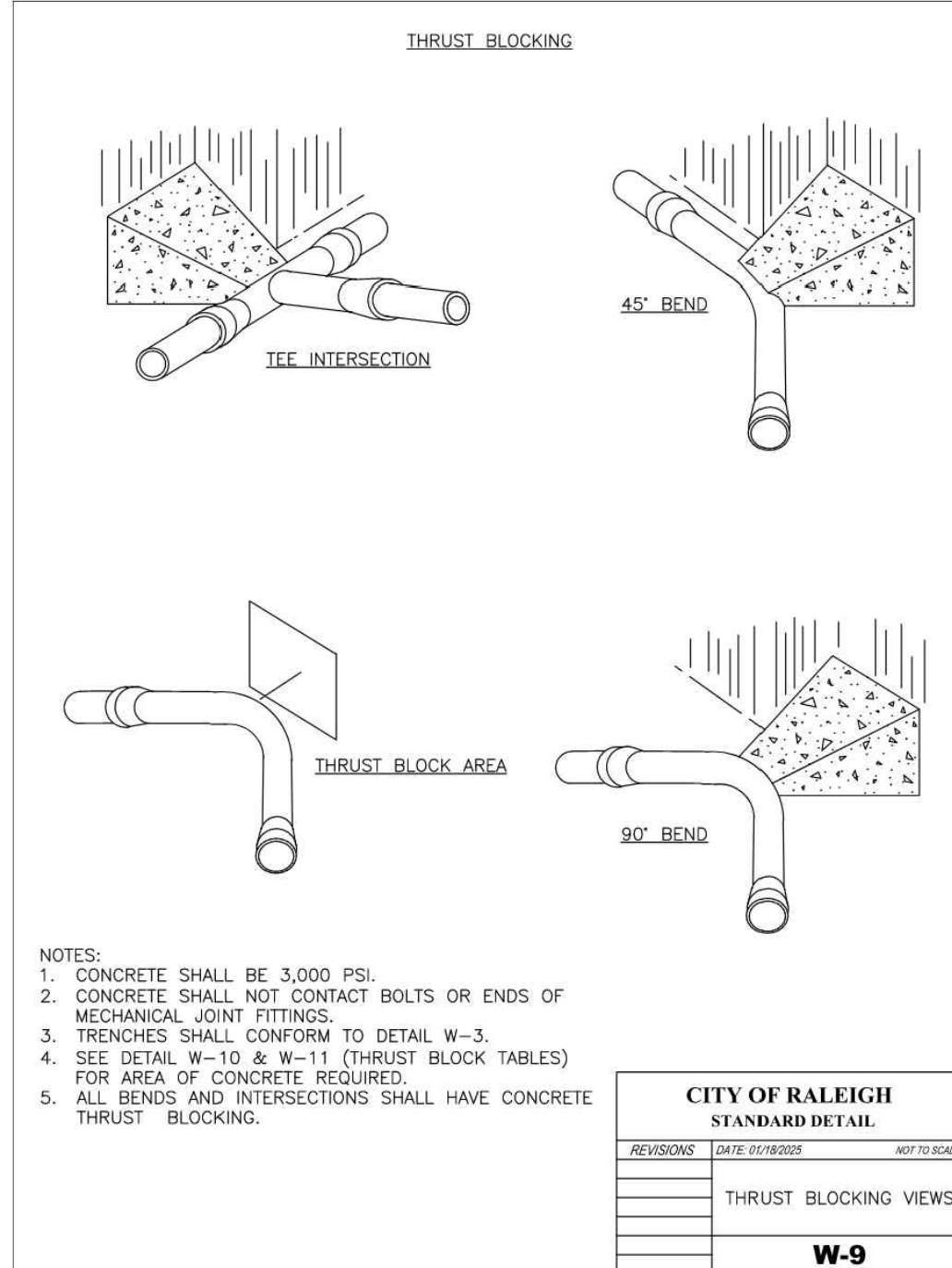
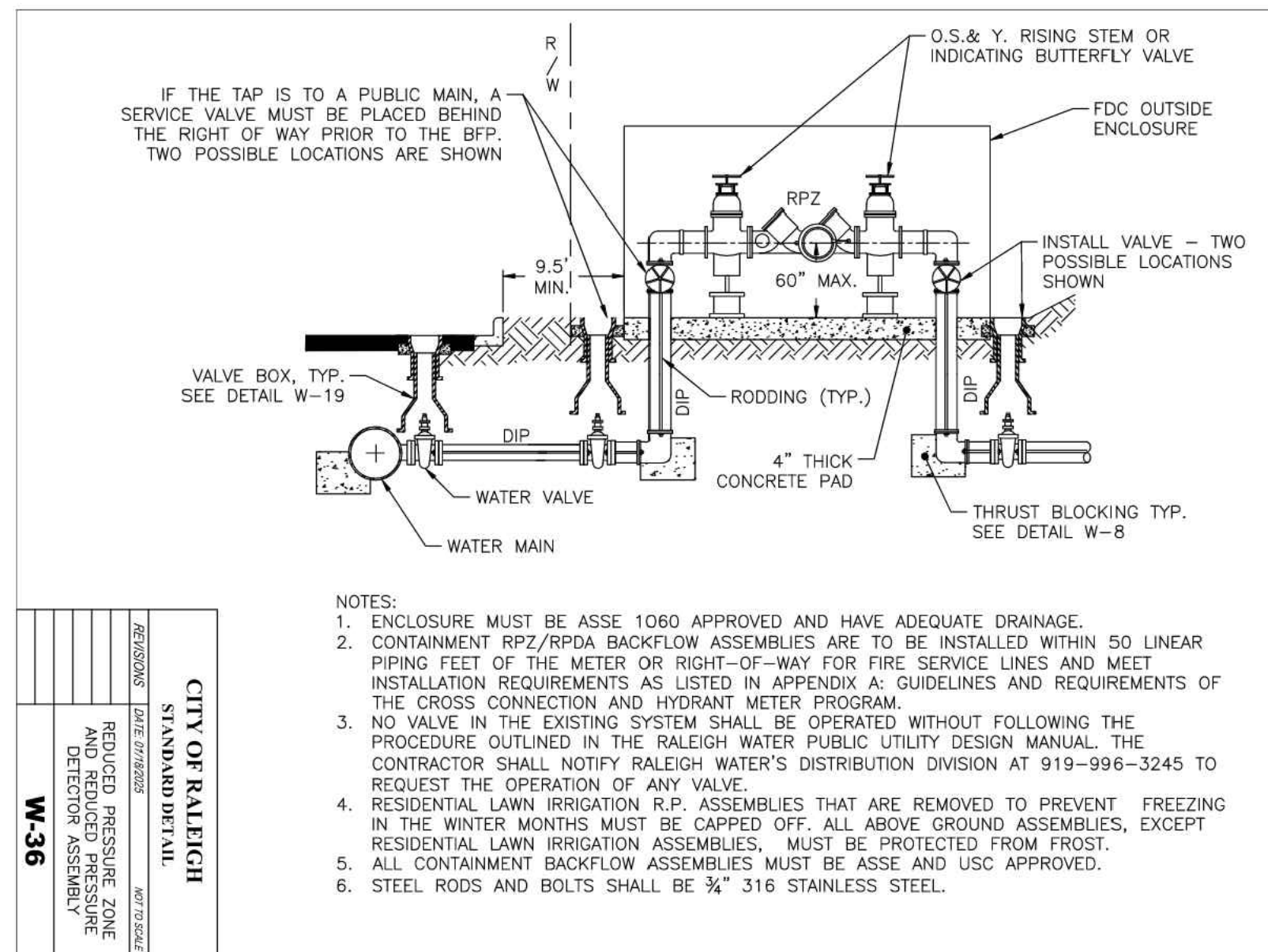
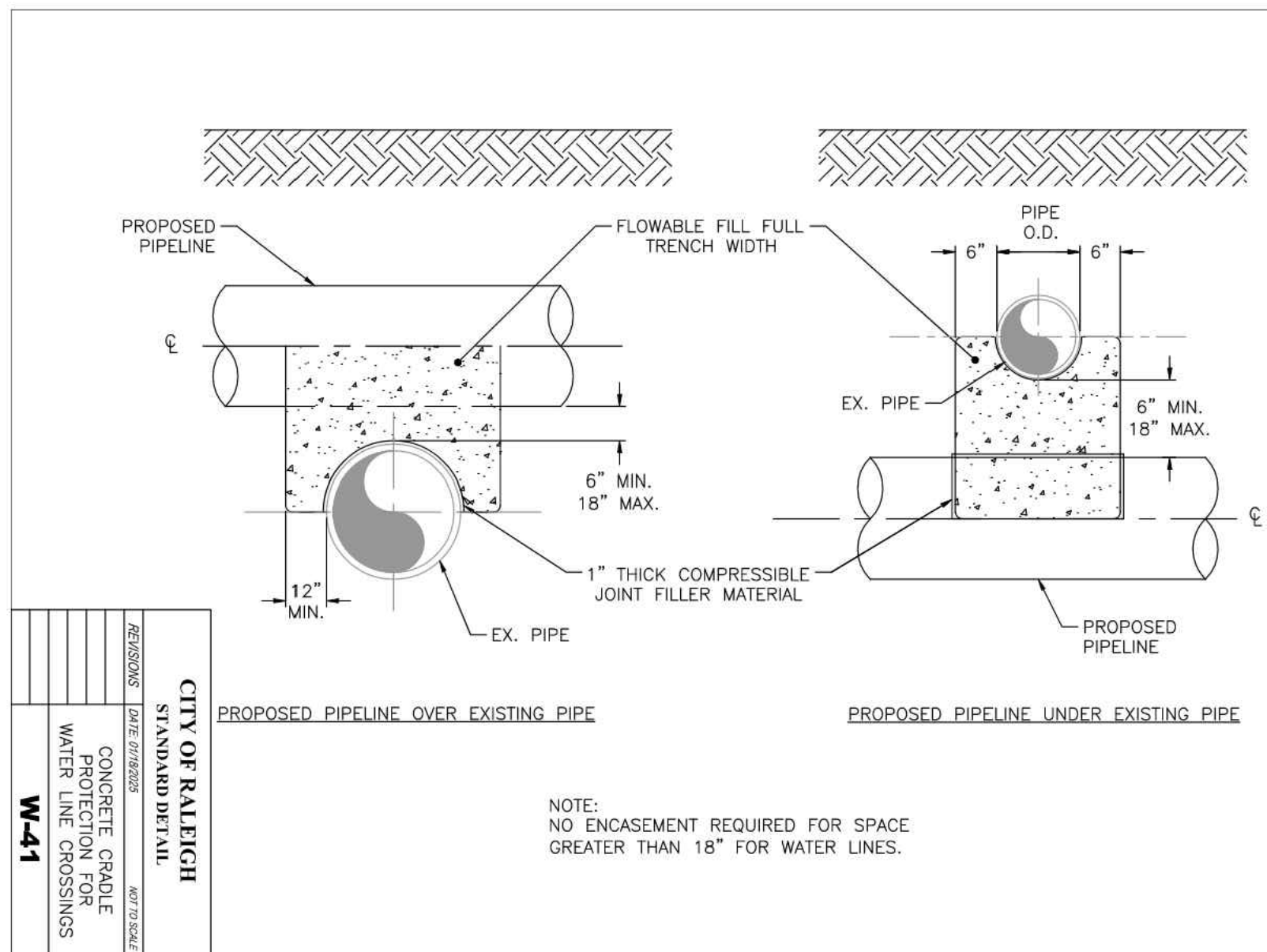
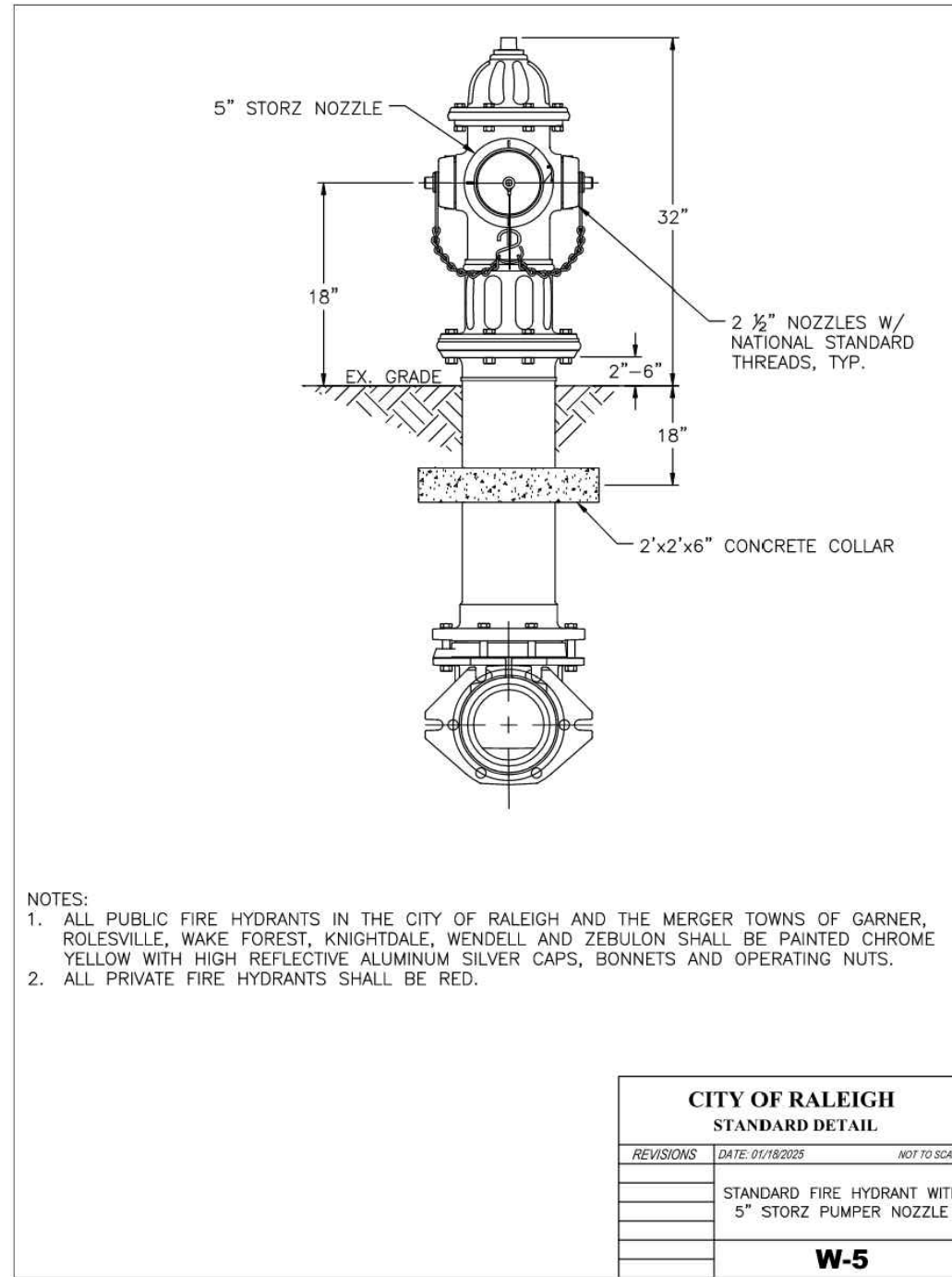
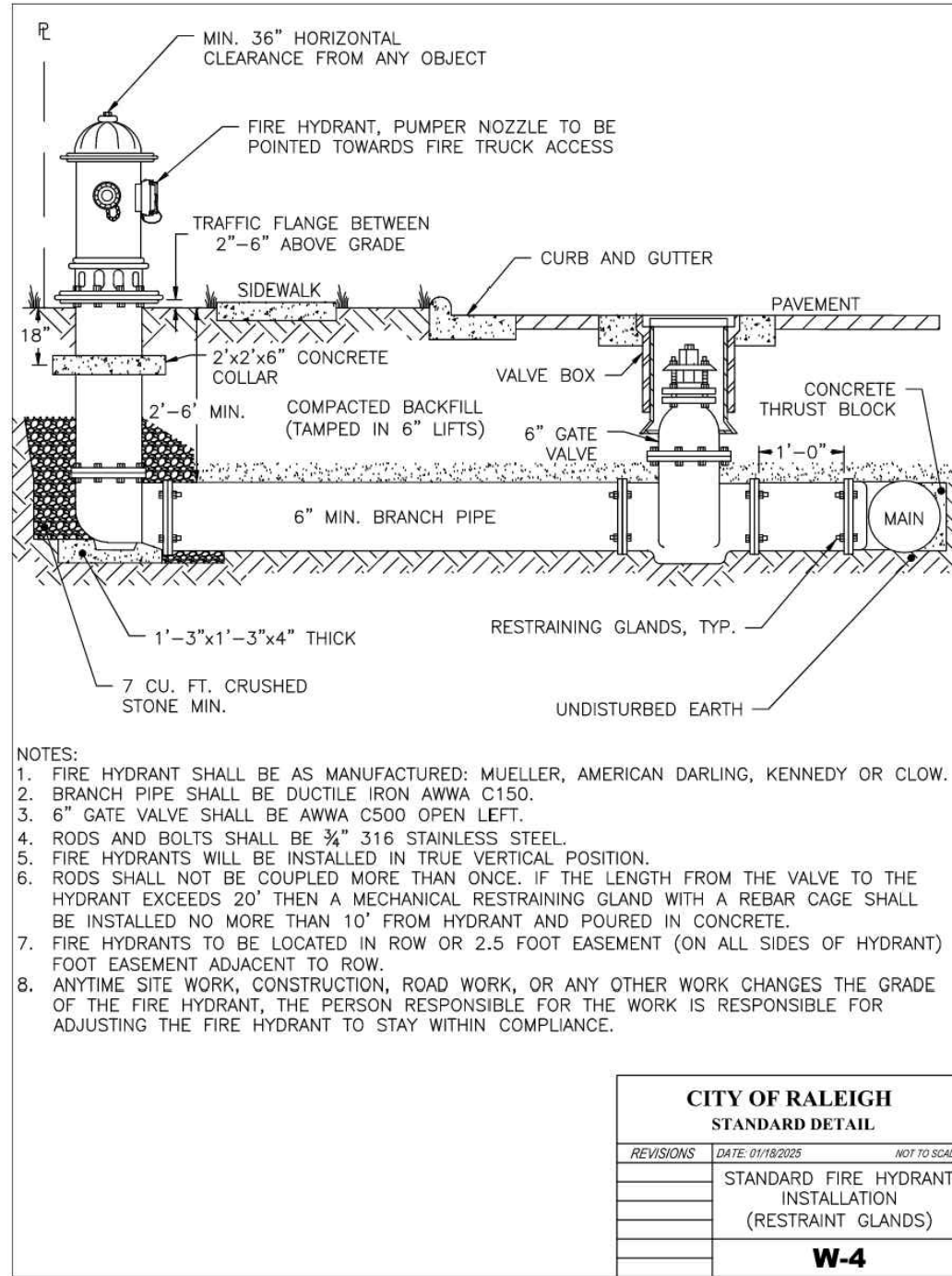
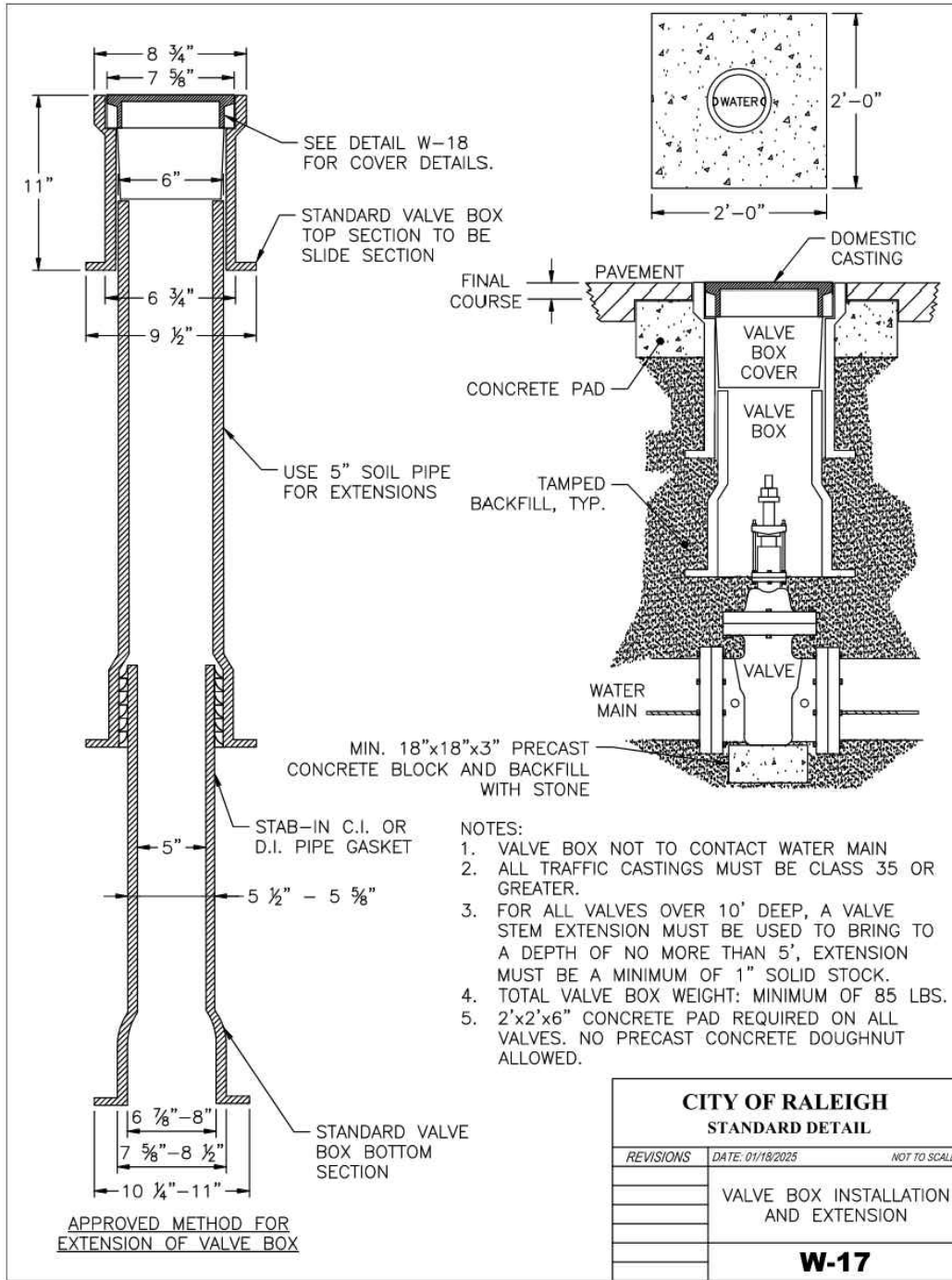
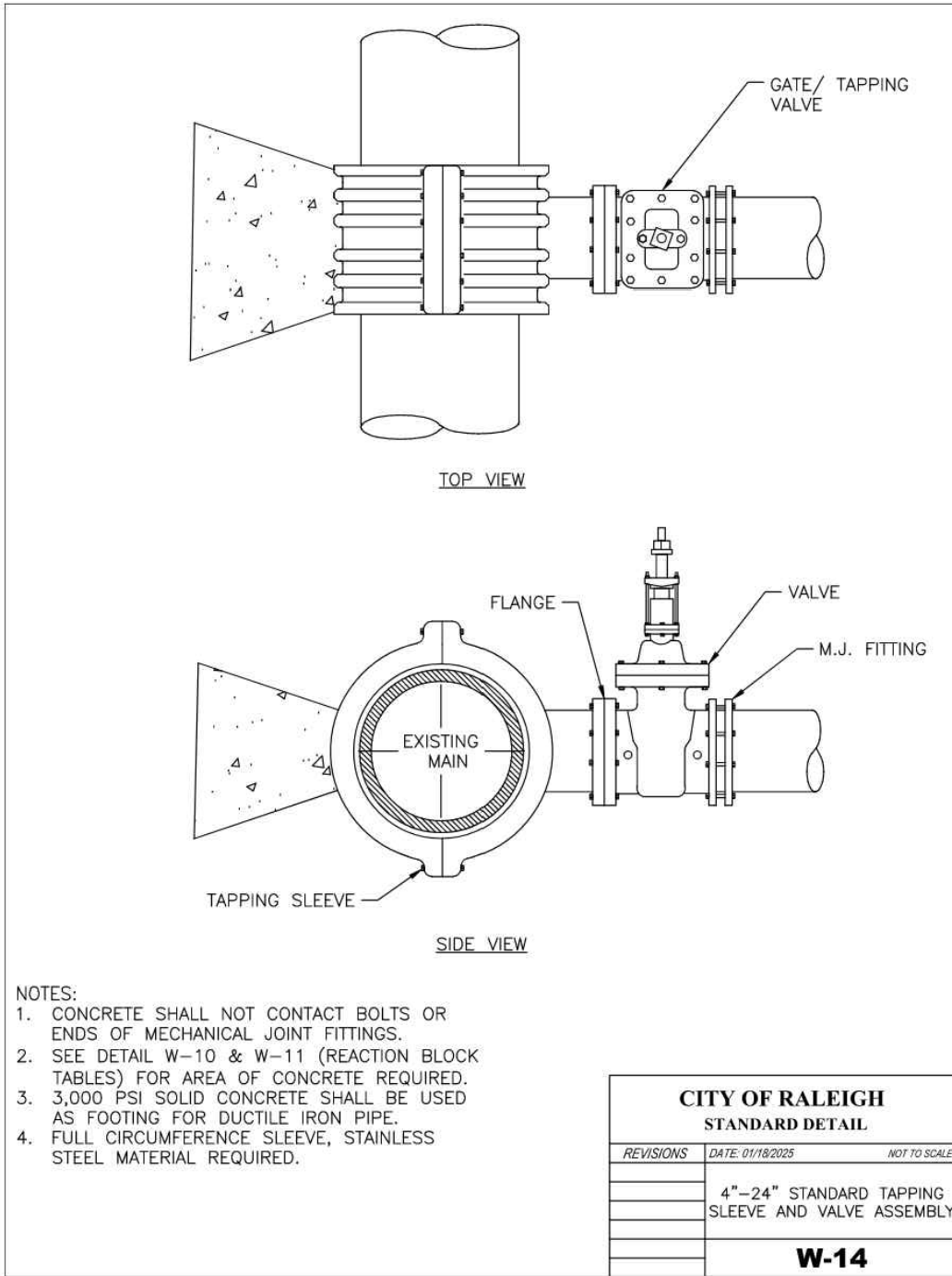
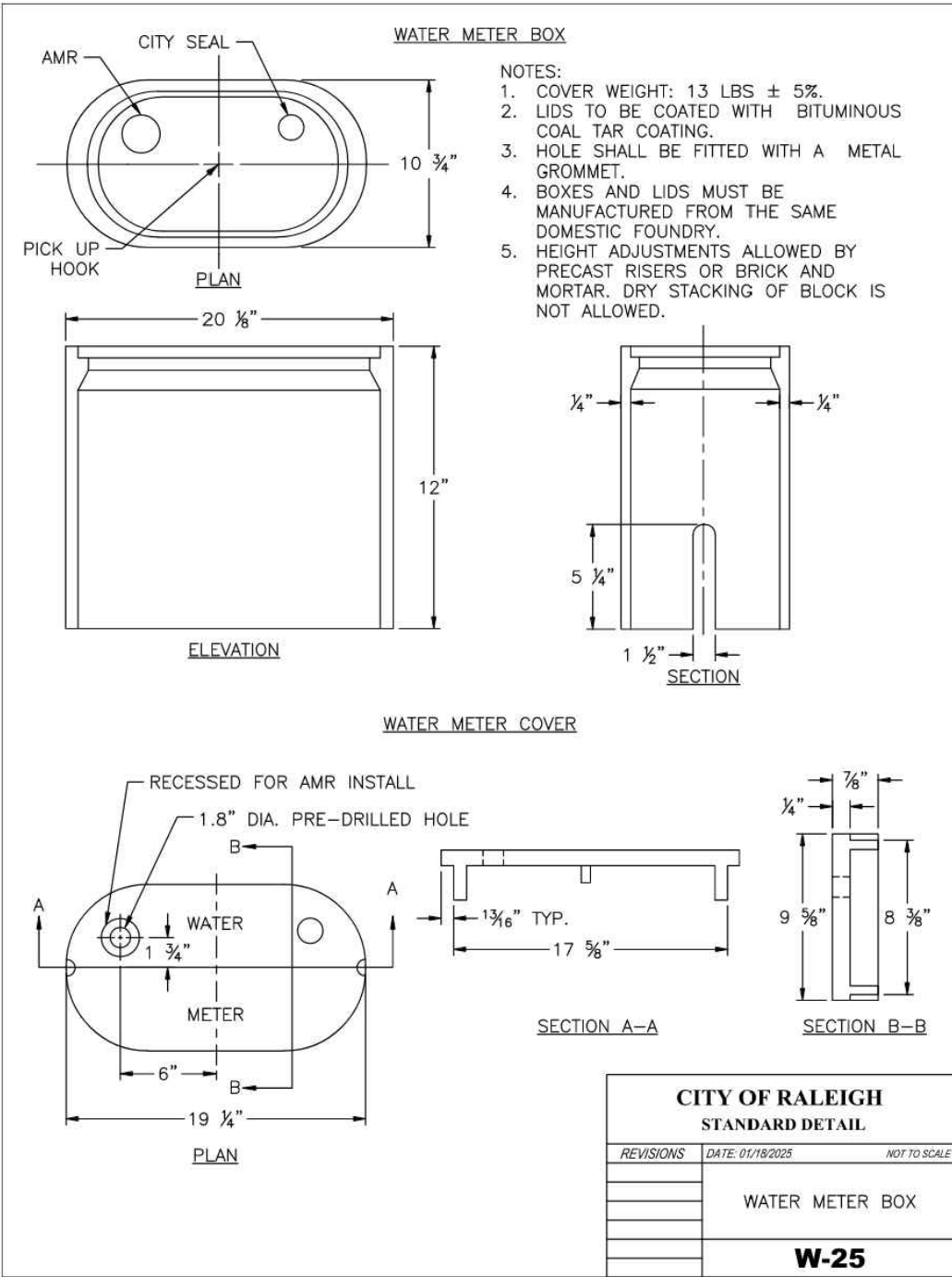
CLH PROJECT NO 22-154

REVISIONS

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

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SHEET NUMBER



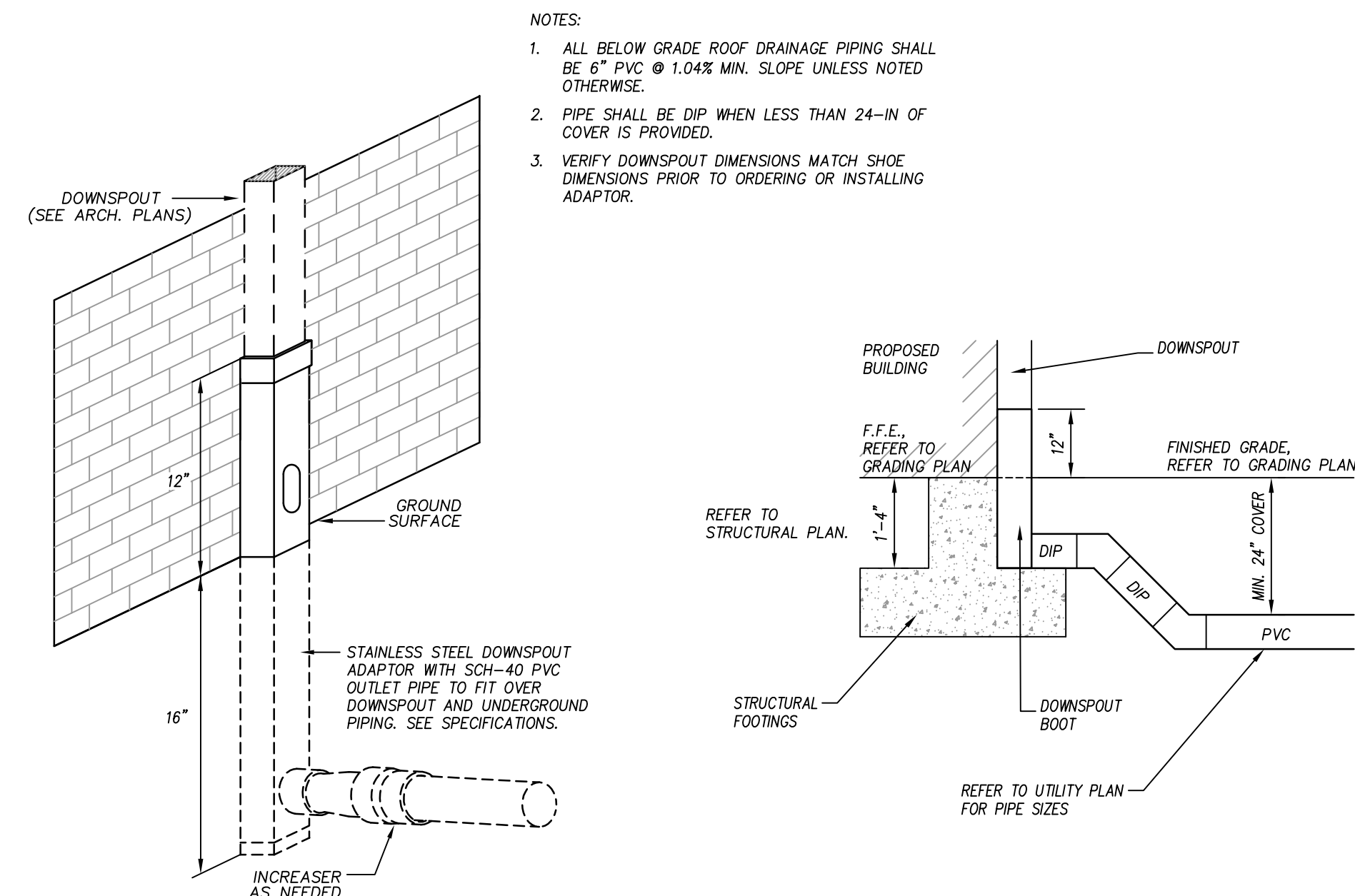
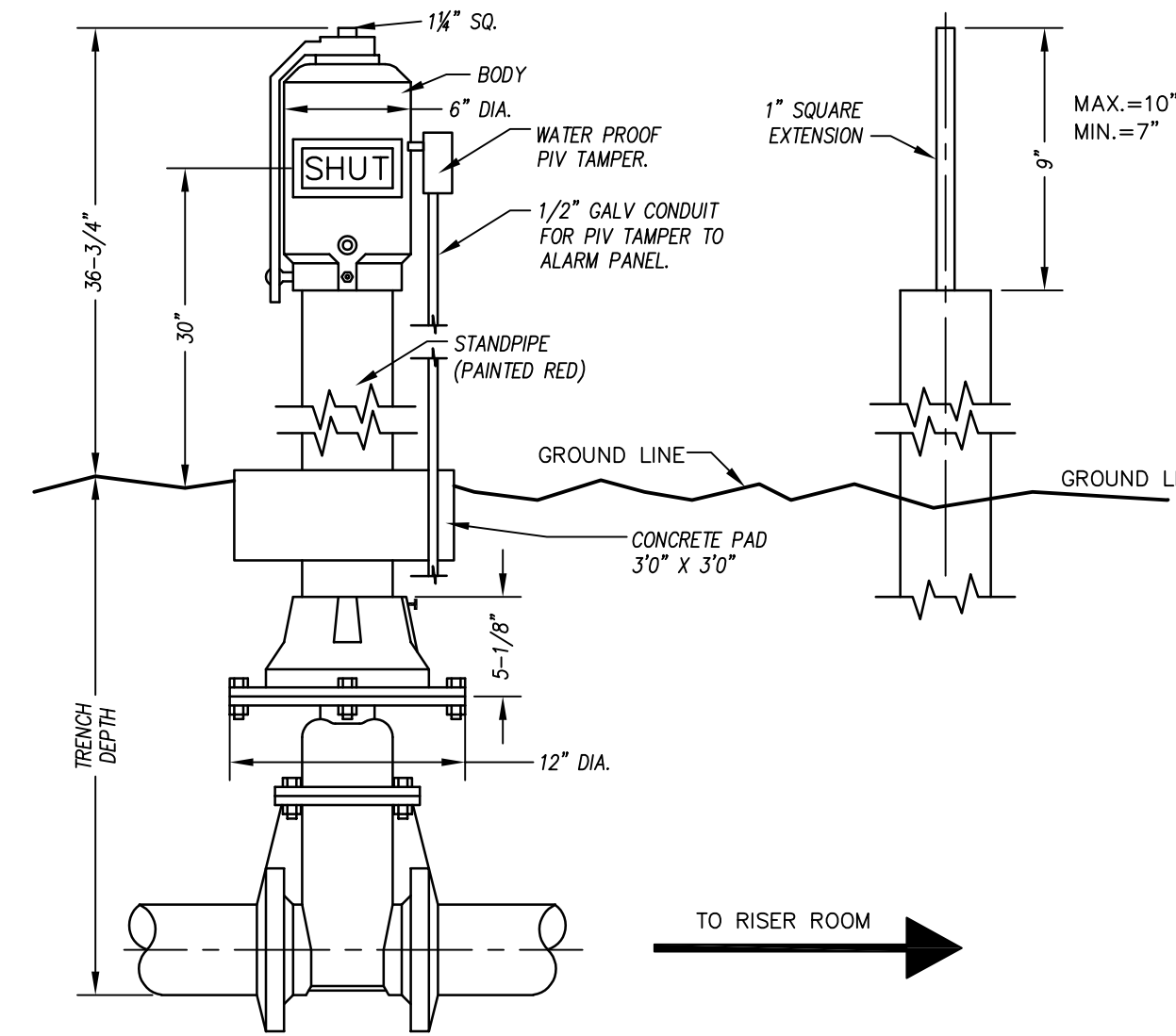
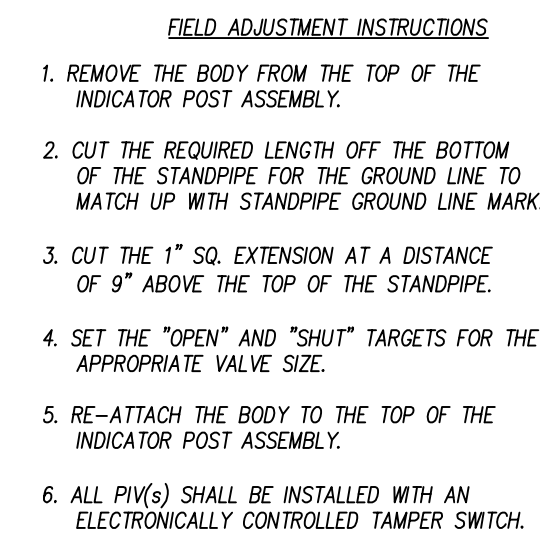
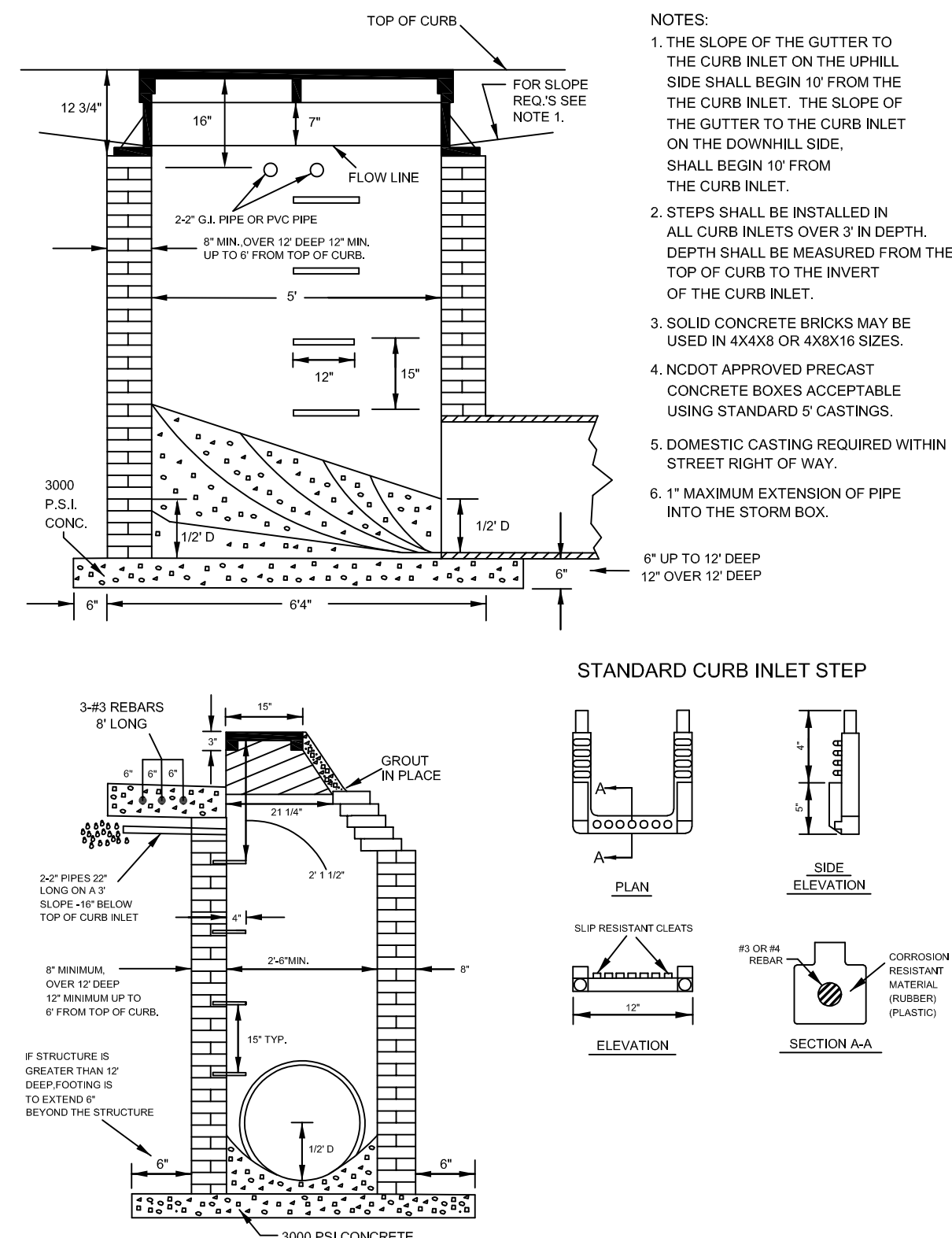
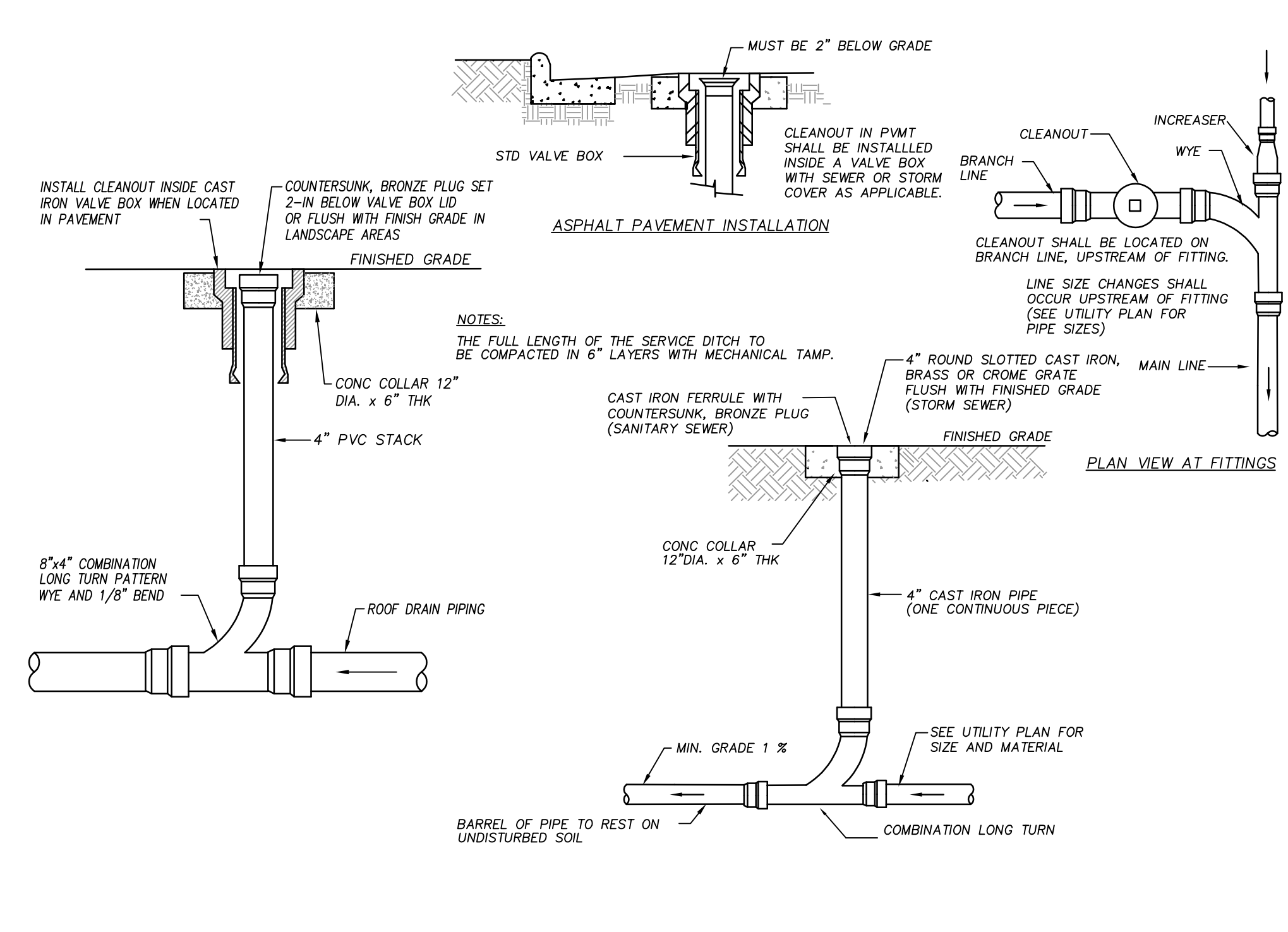
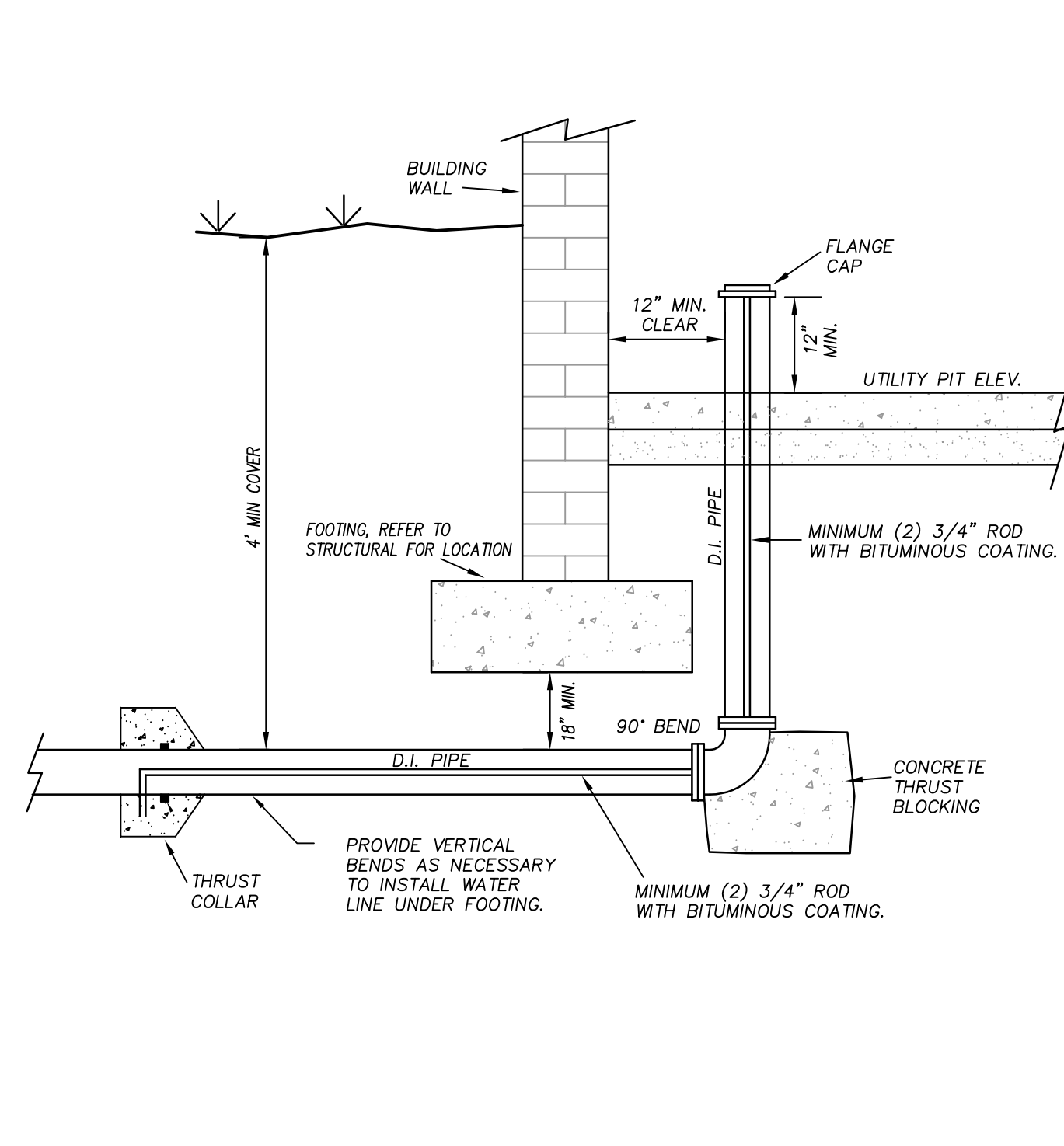
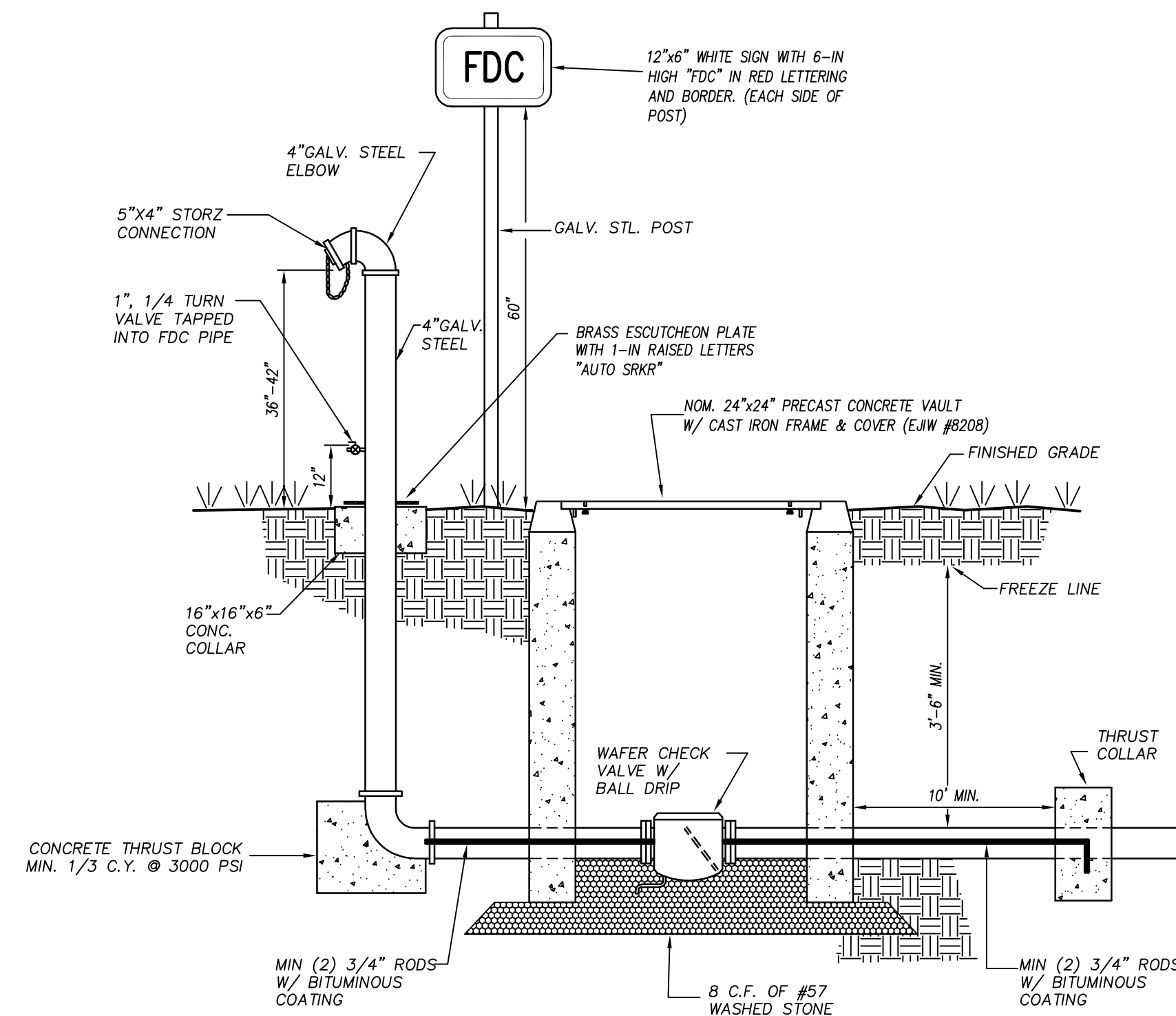
| REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 PSI | | | | | | | | | | | |
|---|----------------|-------------------------|---|-------------------------------------|--|--|--|---|--|--------------------------------------|--|
| ALL AREAS GIVEN IN SQUARE FEET | | | | | | | | | | | |
| SIZE OF BEND | DEGREE OF BEND | STATIC THRUST IN POUNDS | MODERATELY DRY CLAY 4,000 LBS/FT ³ | SOFT CLAY 2,000 LBS/FT ³ | 1,600 LBS/FT ³ GRAVELLY COARSE SAND | 8,000 LBS/FT ³ DRY (ALWAYS DRY) | SAND, COMPACT FIRM 8,000 LBS/FT ³ | SAND, CLEAN DRY 4,000 LBS/FT ³ | SOIL 1,000 LBS/FT ³ QUIKDRAND (VERY POOR) | ROCK-POOR 10,000 LBS/FT ³ | |
| 6" | 11 1/4° | 1,108 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | |
| | 22 1/2° | 2,207 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 1 | |
| | 45° | 4,328 | 2 | 3 | 3 | 1 | 1 | 2 | 5 | 1 | |
| | 90° | 7,996 | 2 | 4 | 5 | 1 | 1 | 2 | 8 | 1 | |
| | PLUG | 5,655 | 2 | 3 | 4 | 1 | 1 | 2 | 6 | 1 | |
| 8" | 11 1/4° | 1,970 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | |
| | 22 1/2° | 3,922 | 1 | 2 | 3 | 1 | 1 | 1 | 4 | 1 | |
| | 45° | 7,694 | 2 | 4 | 5 | 1 | 1 | 2 | 8 | 1 | |
| | 90° | 14,215 | 4 | 8 | 9 | 2 | 2 | 4 | 15 | 2 | |
| | PLUG | 10,053 | 3 | 5 | 6 | 2 | 2 | 3 | 10 | 1 | |
| 12" | 11 1/4° | 4,433 | 2 | 3 | 3 | 1 | 1 | 2 | 5 | 1 | |
| | 22 1/2° | 8,826 | 3 | 5 | 6 | 2 | 2 | 3 | 9 | 1 | |
| | 45° | 17,312 | 5 | 9 | 11 | 3 | 3 | 5 | 18 | 2 | |
| | 90° | 31,983 | 8 | 16 | 19 | 4 | 4 | 8 | 32 | 4 | |
| | PLUG | 22,619 | 6 | 12 | 14 | 3 | 3 | 6 | 23 | 3 | |
| 16" | 11 1/4° | 7,881 | 2 | 4 | 5 | 1 | 1 | 2 | 8 | 1 | |
| | 22 1/2° | 15,691 | 4 | 8 | 10 | 2 | 2 | 4 | 16 | 2 | |
| | 45° | 30,779 | 8 | 16 | 19 | 4 | 4 | 8 | 31 | 4 | |
| | 90° | 56,861 | 15 | 29 | 35 | 8 | 8 | 15 | 57 | 6 | |
| | PLUG | 40,213 | 10 | 21 | 25 | 5 | 5 | 10 | 41 | 5 | |

CITY OF RALEIGH STANDARD DETAIL

REVISIONS DATE DESCRIPTION NOT TO SCALE

THRUST BLOCKING DESIGN QUANTITY TABLE

W-10



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

UTILITY DETAILS

DATE 06-03-2025

CLH PROJECT NO 22-154

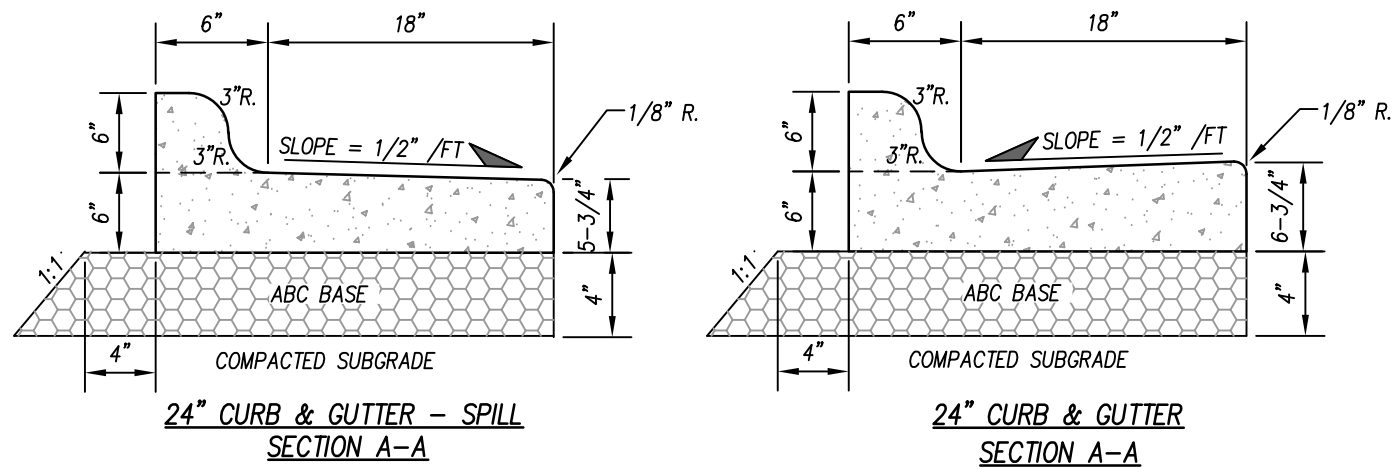
REVISIONS

| NO | DATE | DESCRIPTION: |
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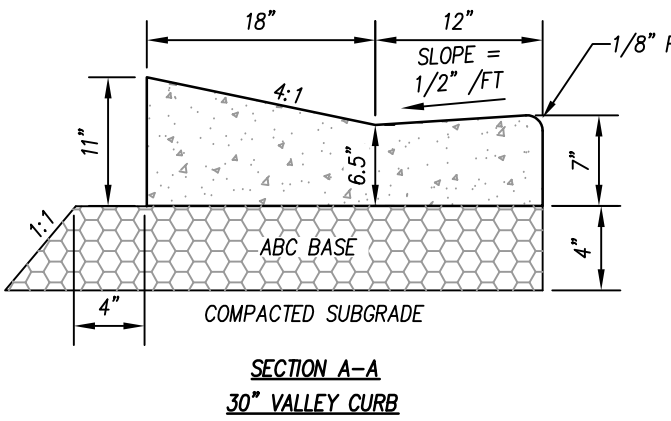
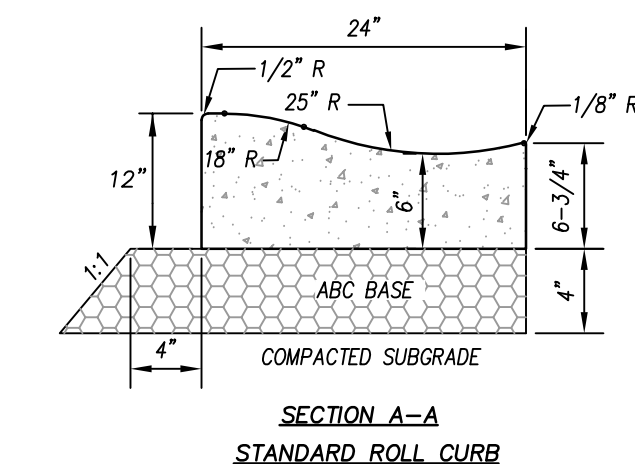
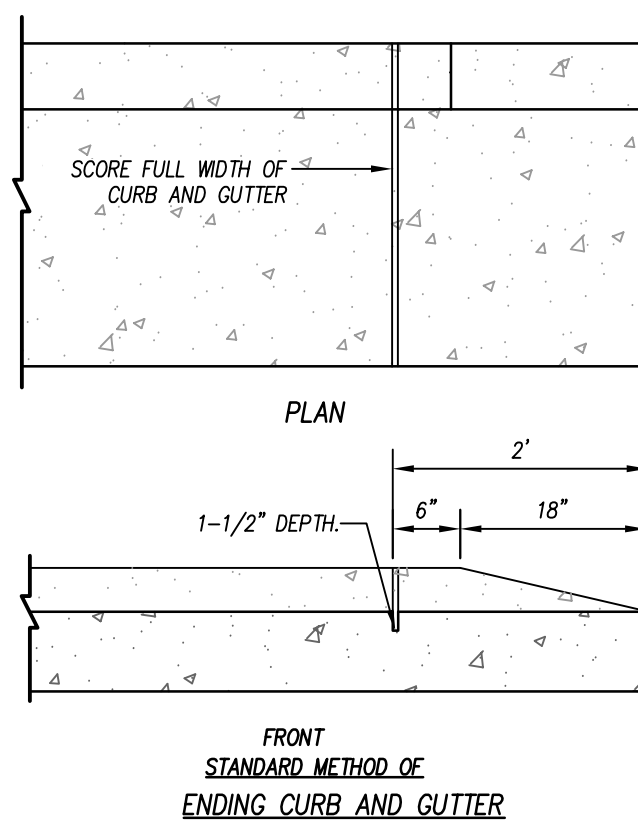
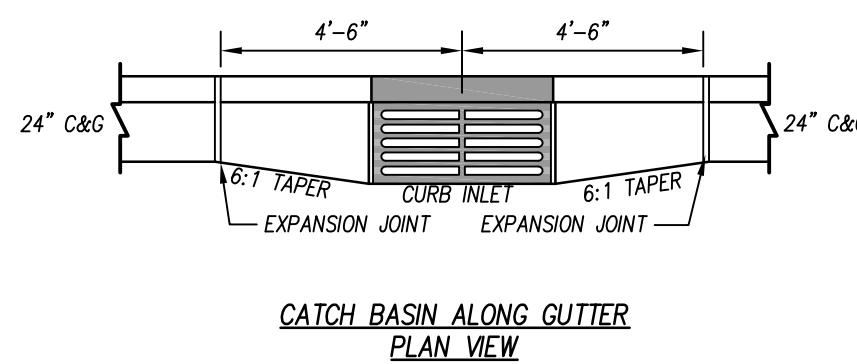
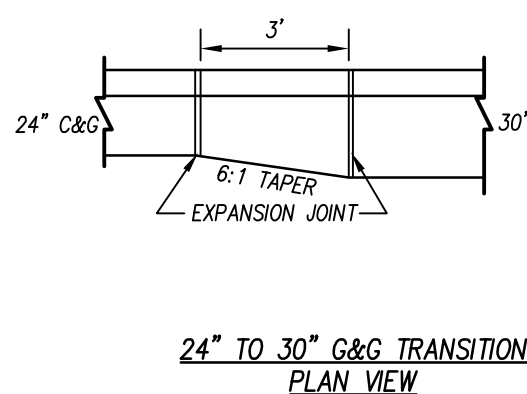
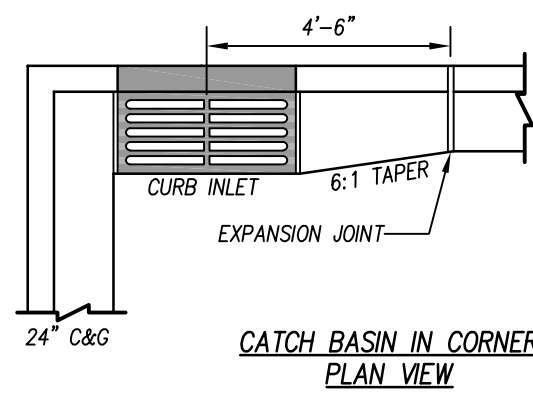
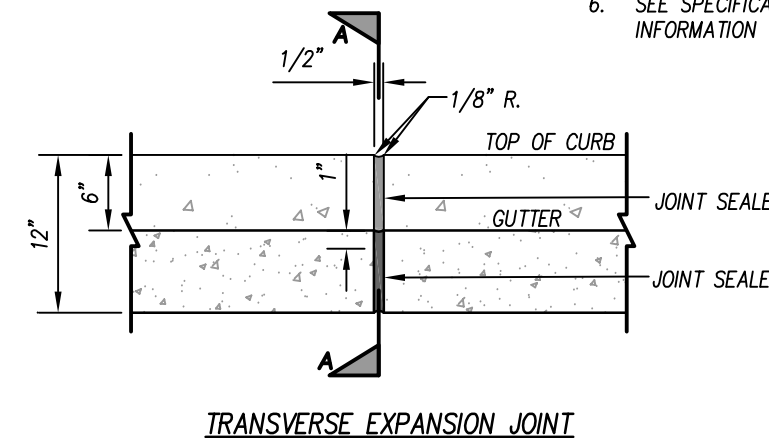
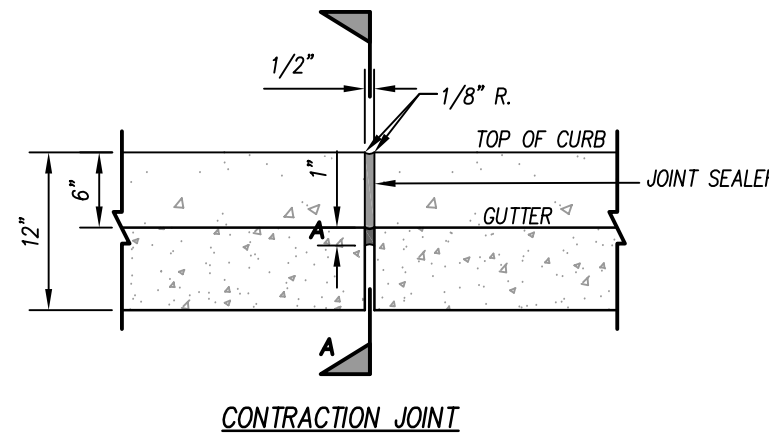
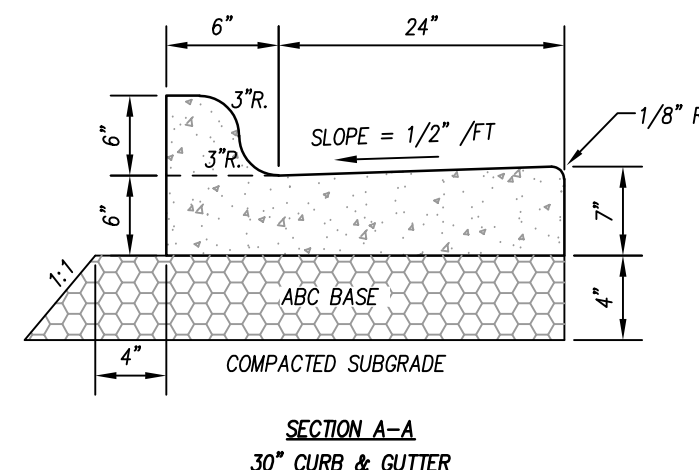
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SHEET NUMBER

C803

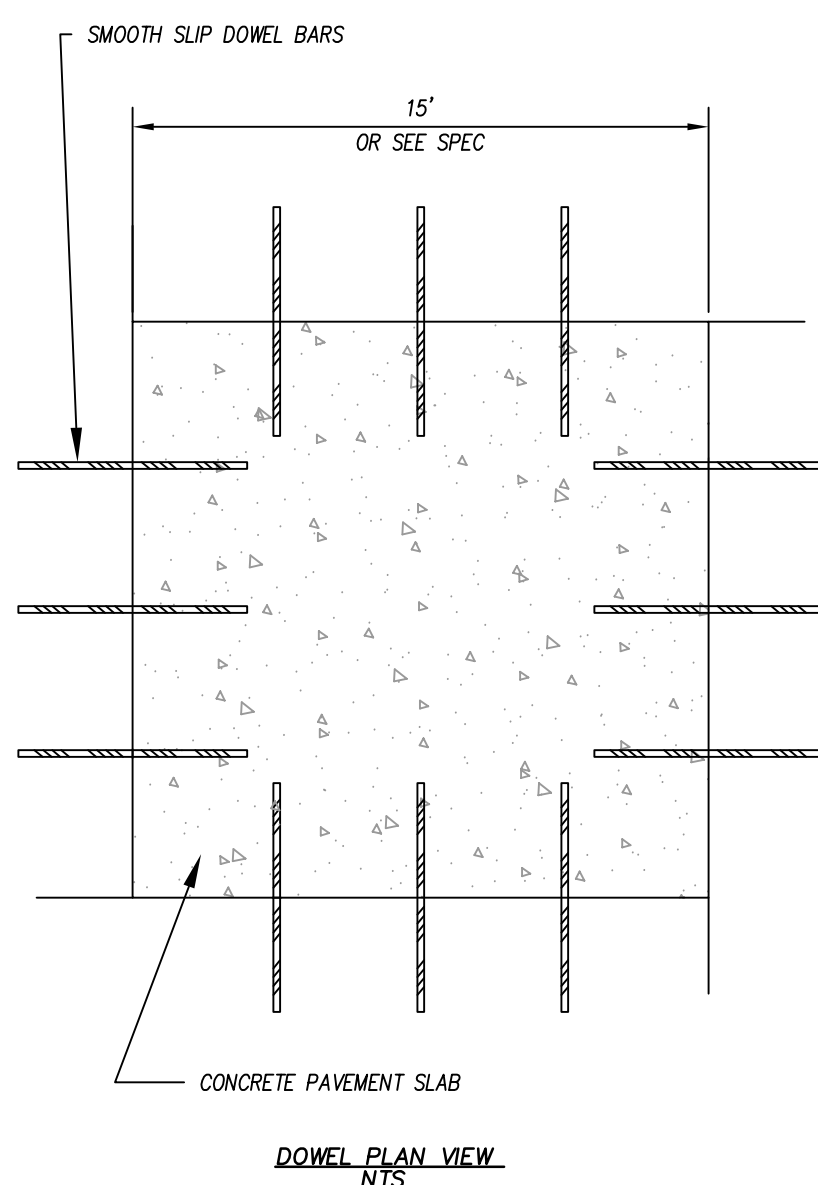


- CURB AND GUTTER NOTES:**
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
 2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
 3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS 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

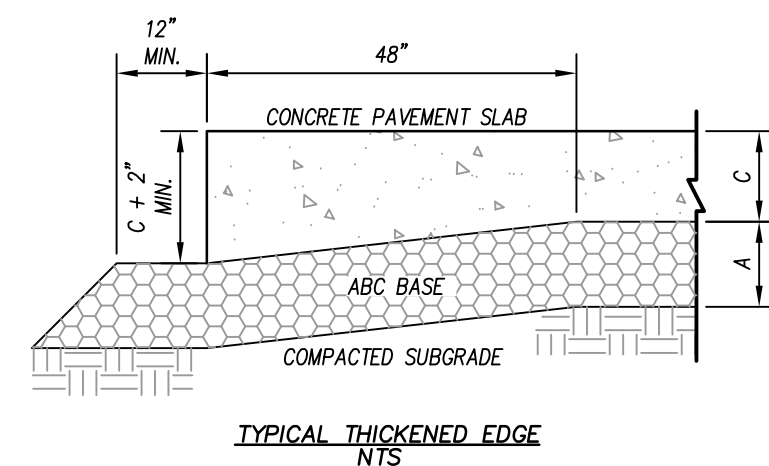


CURB AND GUTTER

N.T.S.

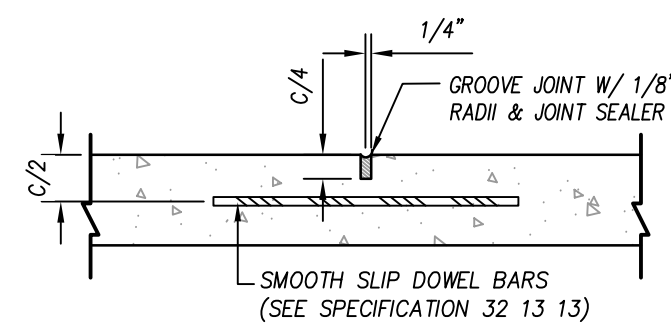


| CONCRETE PAVEMENT DIMENSIONS | |
|------------------------------|-----------|
| CONC SLAB THICKNESS, C | 8-IN |
| ABC THICKNESS, A | 4-IN |
| DOWEL DIAMETER | SEE SPECS |

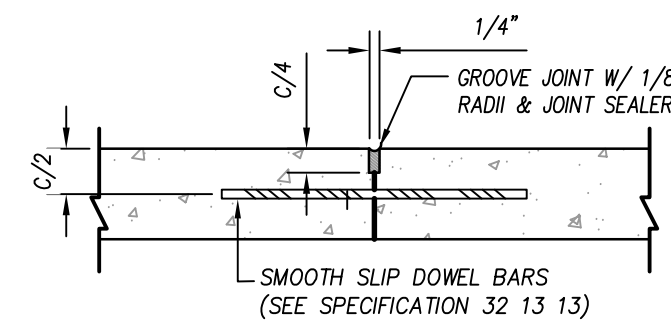


NOTES:

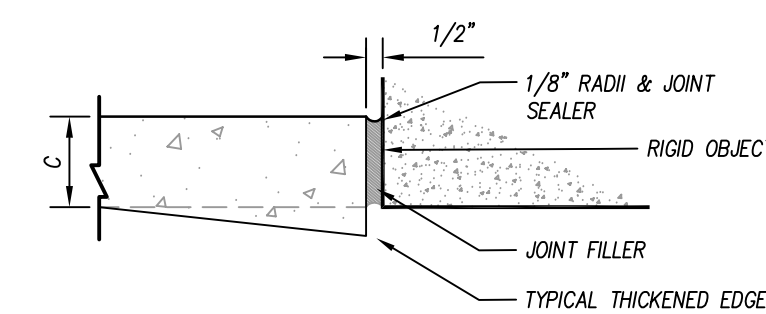
1. ALL CONCRETE SHALL BE OF NCDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32.13.13.
3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
4. JOINTS IN CURB & GUTTER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



TYPICAL CONTRACTION JOINT
N.T.S.



TYPICAL CONSTRUCTION JOINT
N.T.S.



TYPICAL ISOLATION JOINT
N.T.S.

HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS)

N.T.S.

| | | LIGHT DUTY ASPHALT | HEAVY DUTY ASPHALT |
|-----------------------|-------------|--------------------|--------------------|
| SURFACE COURSE | TYPE S-9.5C | 3" | 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.

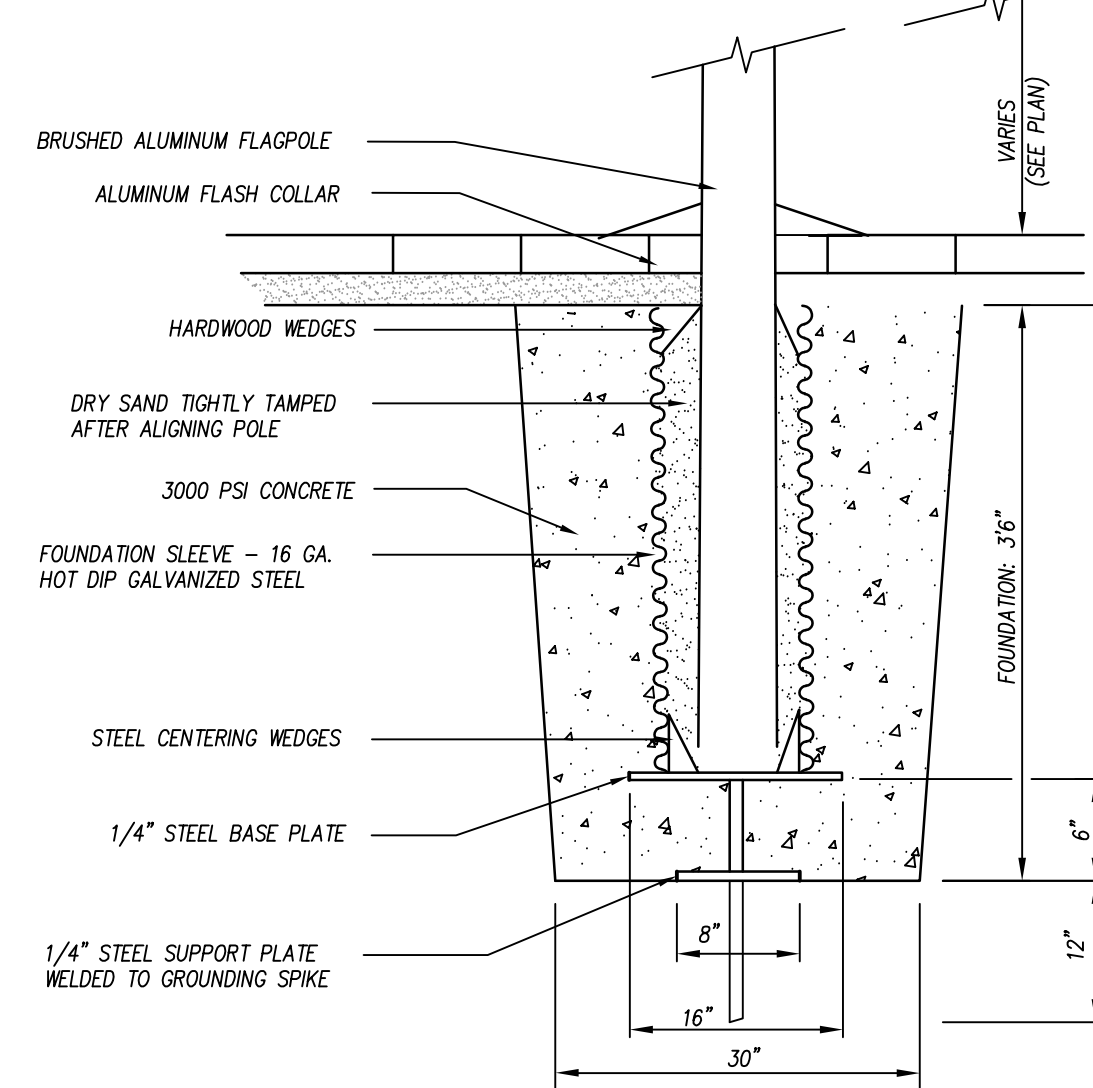
PAVEMENT SECTIONS

N.T.S.

FLAG POLE BASE DETAIL

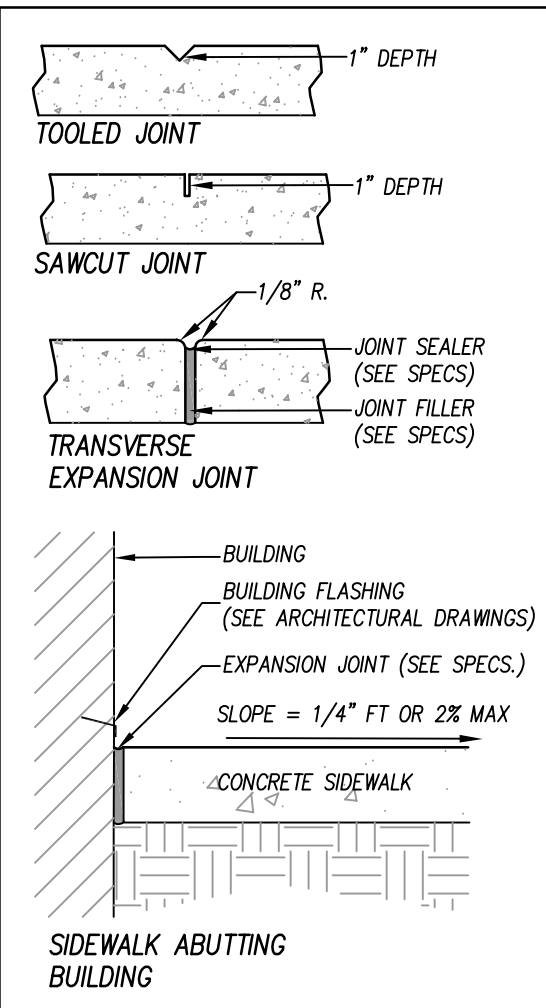
N.T.S.

- 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.



TOOLED JOINT 1" DEPTH

SAWCUT JOINT 1" DEPTH

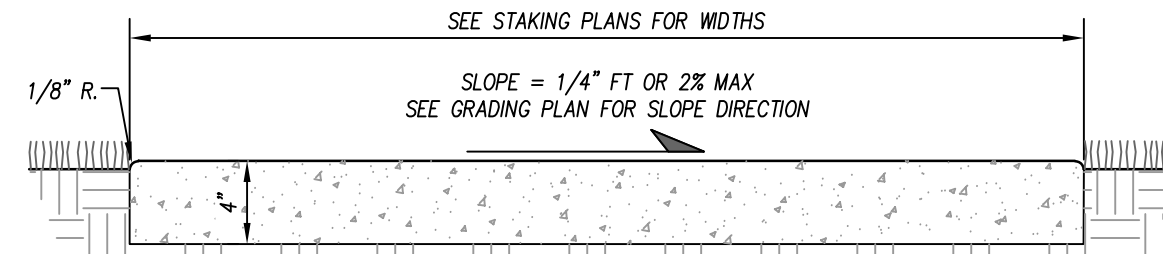
TRANSVERSE EXPANSION JOINT

EXPANSION JOINT (SEE SPECS.)

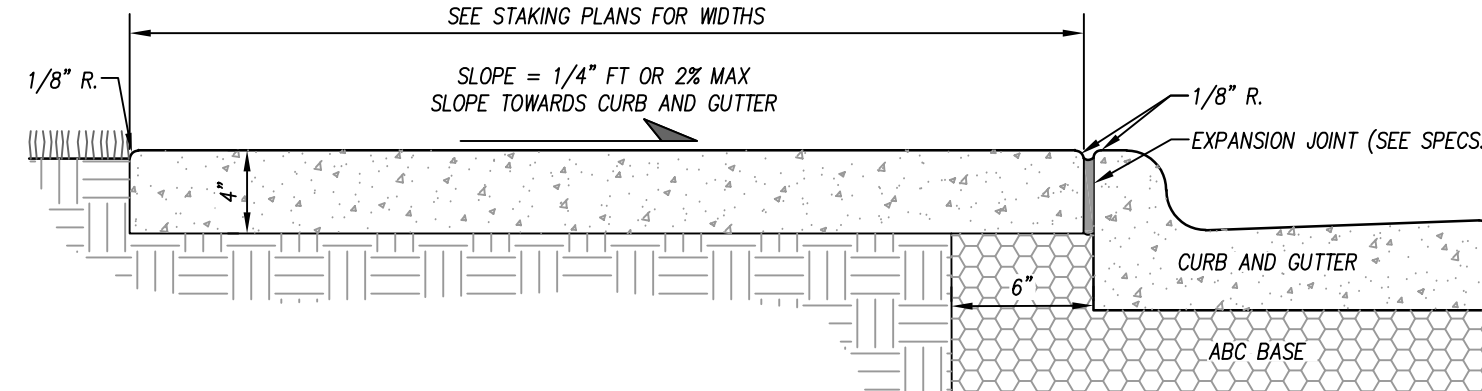
JOINT FILLER (SEE SPECS.)

CONCRETE SIDEWALK

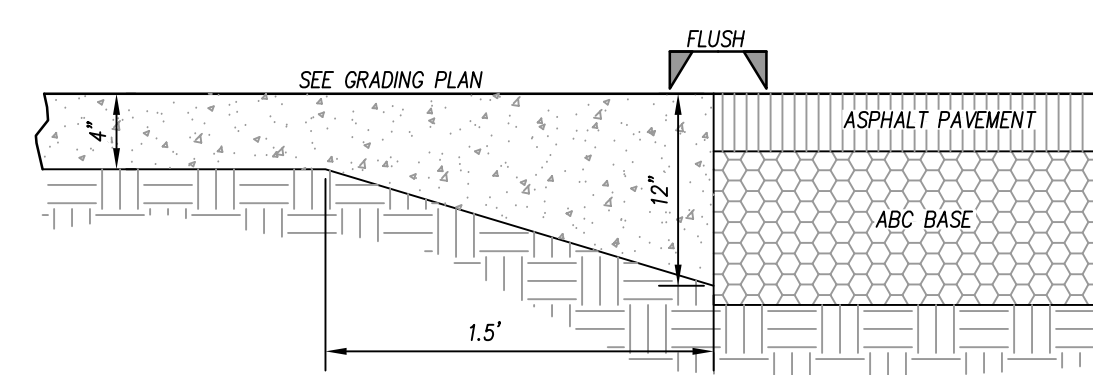
SIDEWALK ABUTTING BUILDING



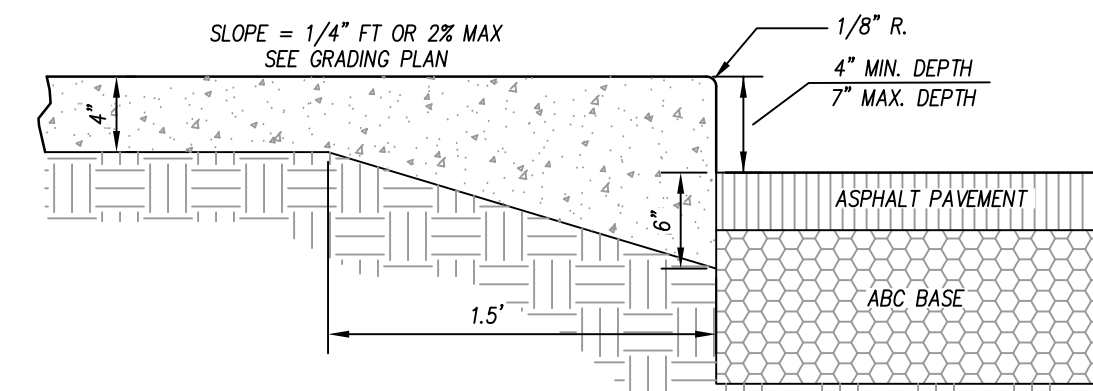
SECTION OF CONCRETE SIDEWALK



SECTION OF CONCRETE SIDEWALK ABUTTING CURB AND GUTTER



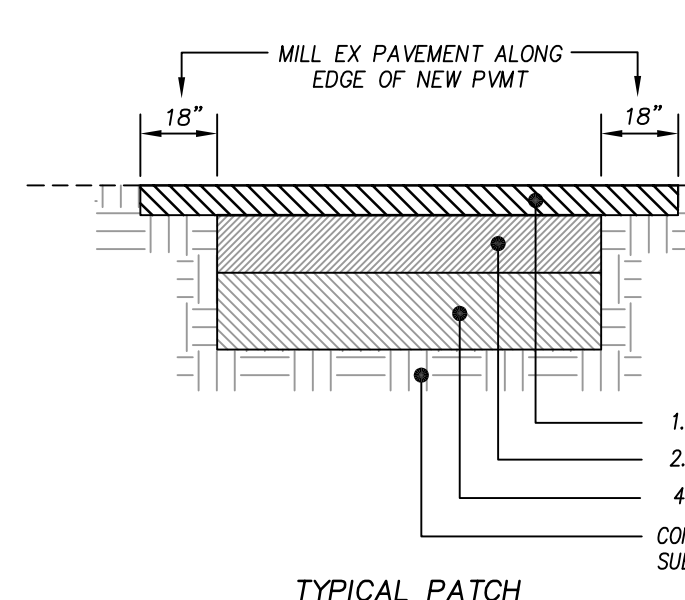
SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH



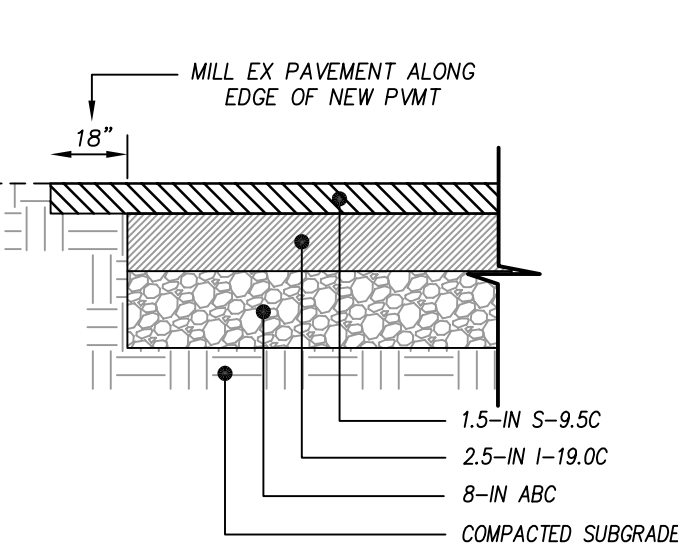
SECTION OF SIDEWALK ABUTTING PAVEMENT

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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PATCH

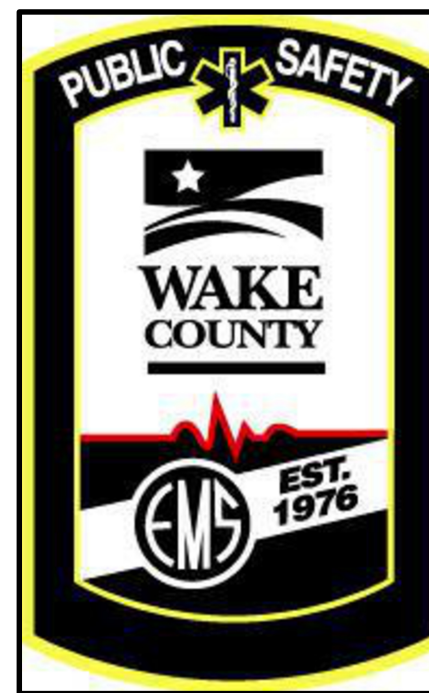
N.T.S.

adwarchitects
environmentsforlife

architecture planning interiors

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P 704 379 1919
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LA: C-106, PE: C-1595



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING DETAILS

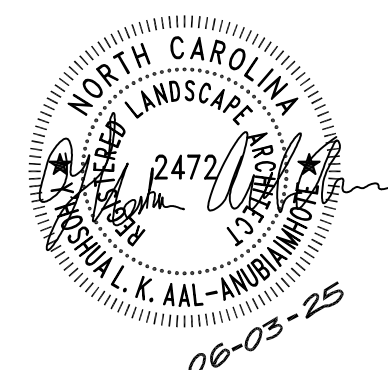
DATE 06-03-2025

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.

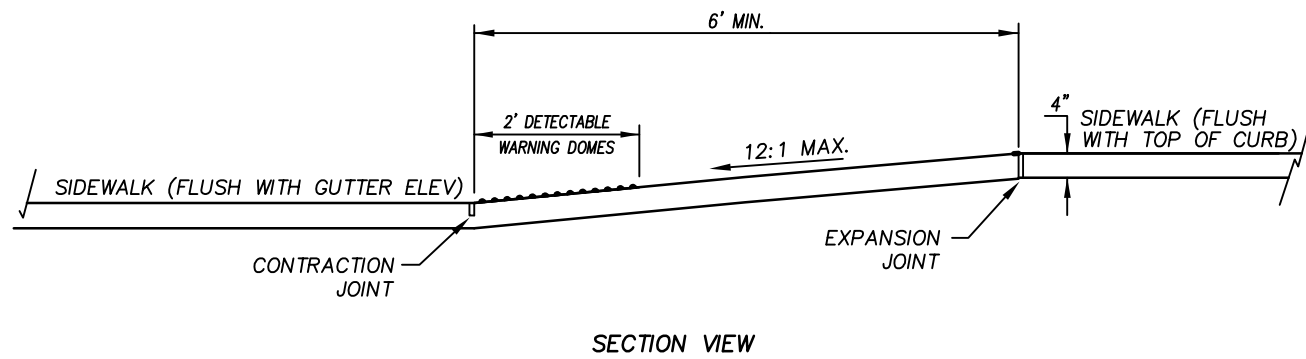
DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

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' |
| 5' | 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.

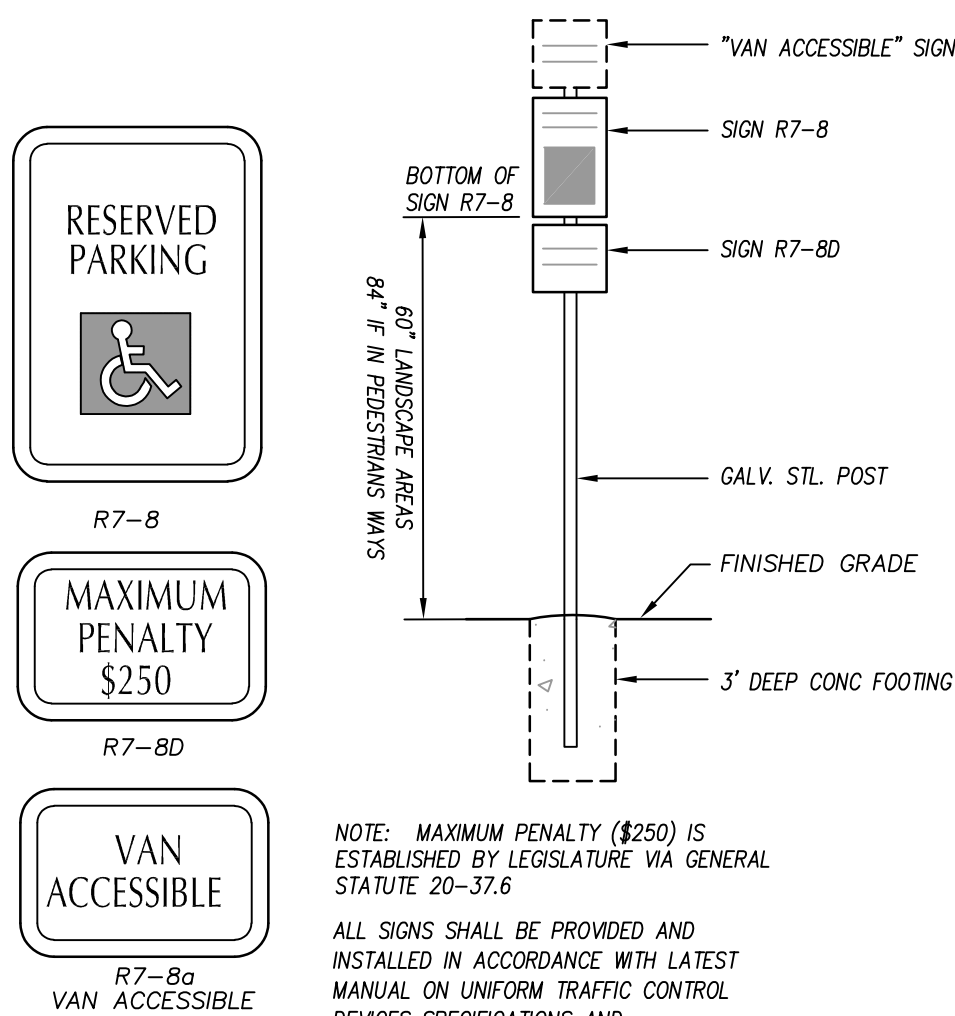
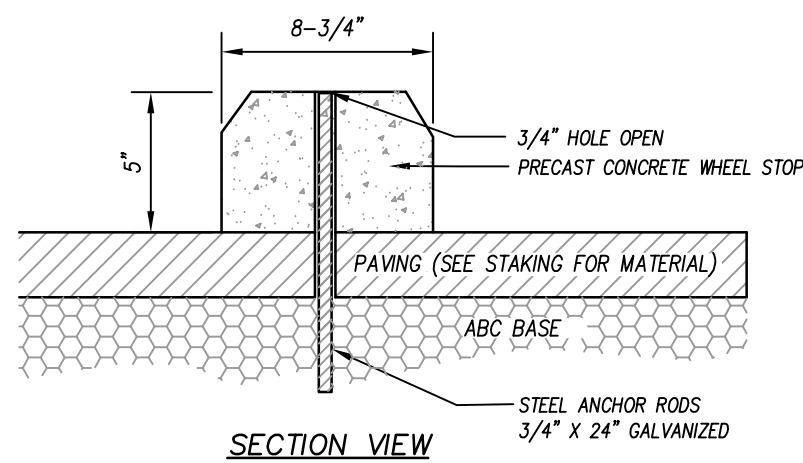
ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAN 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE.

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%.

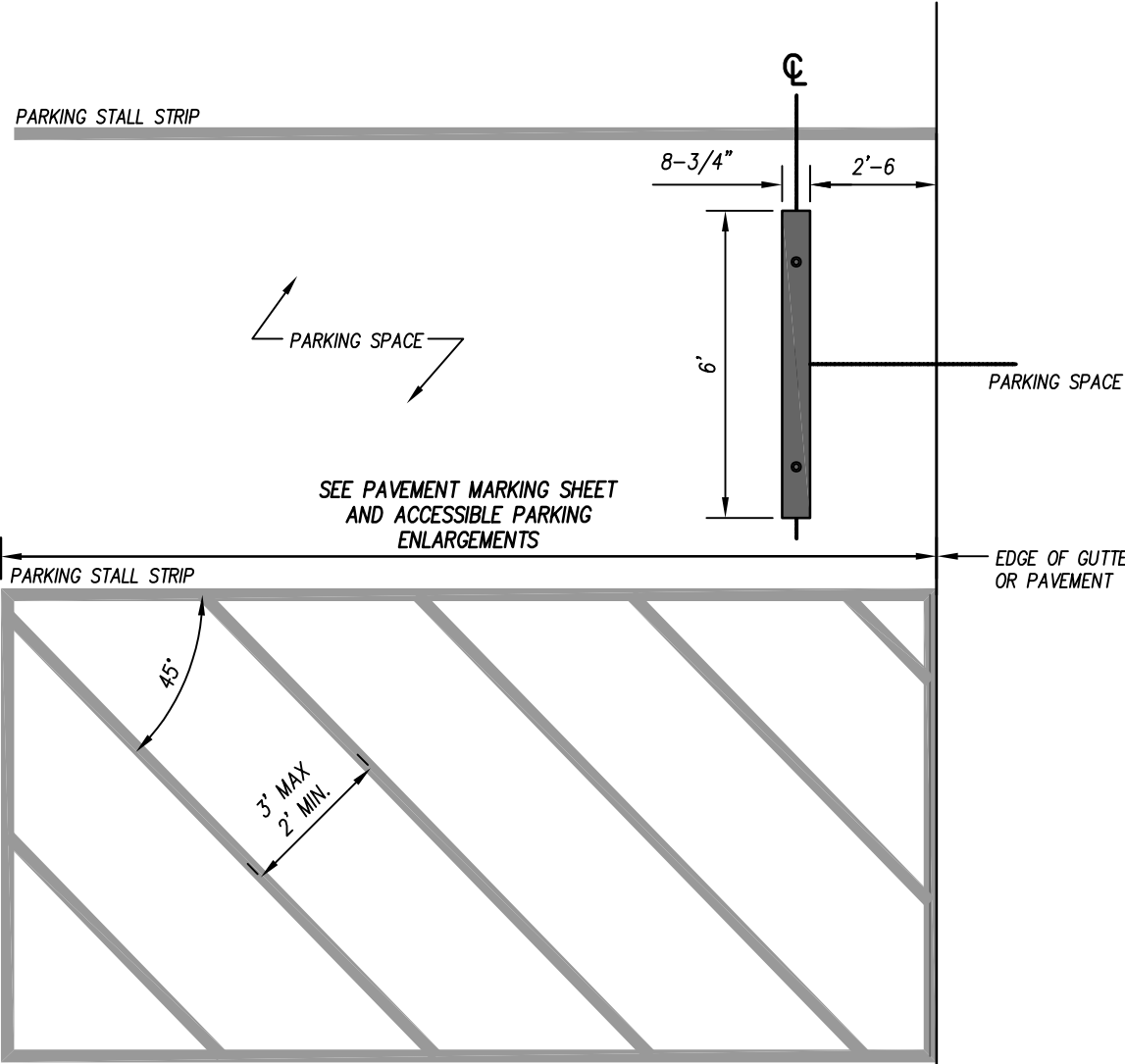
PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CRETE SURFACES



NOTE: MAXIMUM PENALTY (\$250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

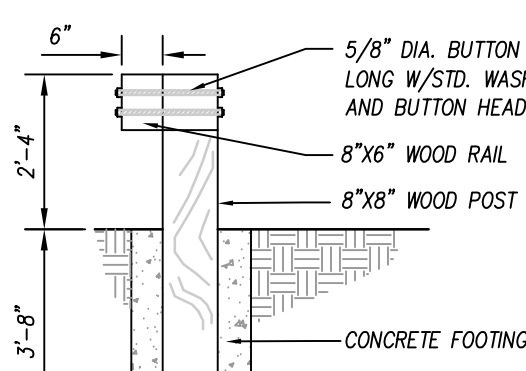
ACCESSIBLE PARKING SIGNAGE



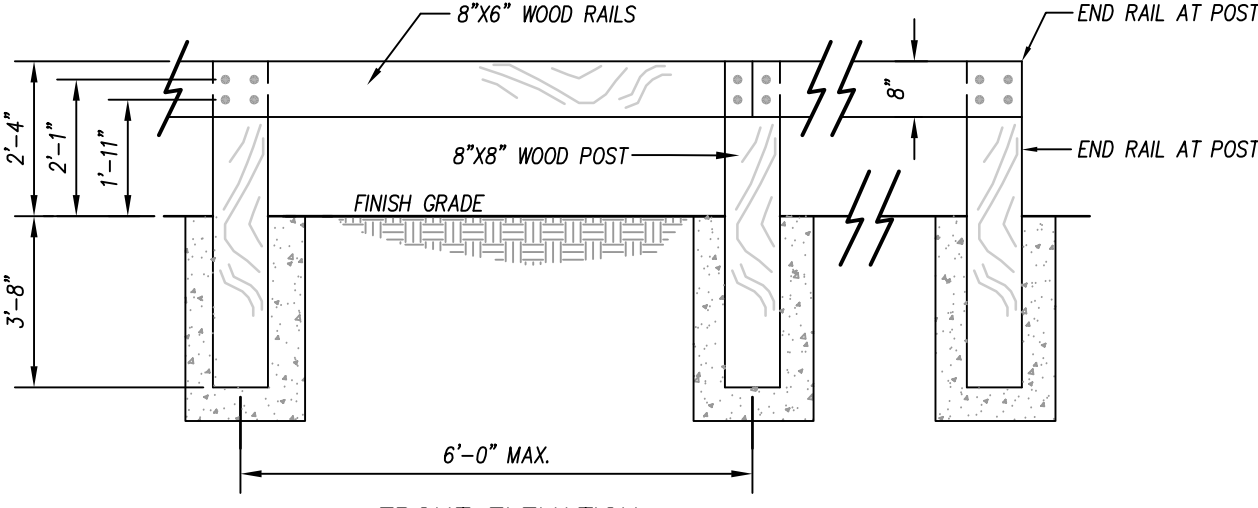
ACCESSIBLE STALL STRIPING AND 90° PARKING SPACE PLAN VIEW

N.T.S.

- NOTES:
- ALL WOOD SHALL BE NO.2 CCA PRESSURE TREATED YELLOW PINE
 - ALL HARDWARE SHALL BE GALVANIZED, PER ASTM A153.



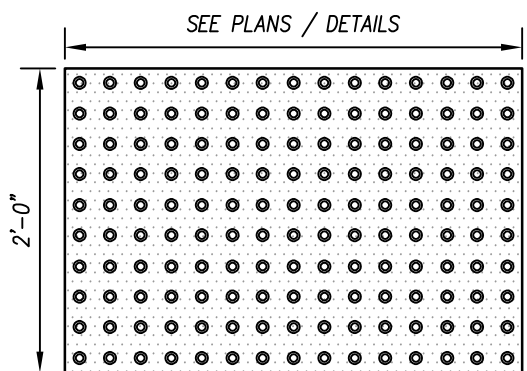
SIDE ELEVATION



FRONT ELEVATION

TRAFFIC GUARDRAIL

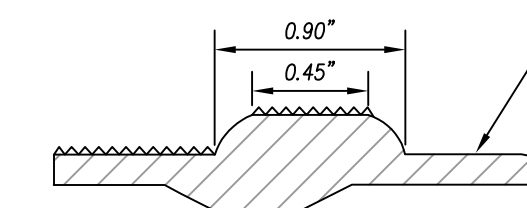
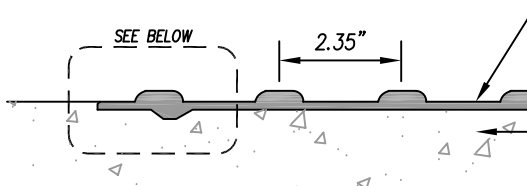
N.T.S.



NOTES:
DOMES SHALL BE YELLOW OR PER LOCAL CODE.

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

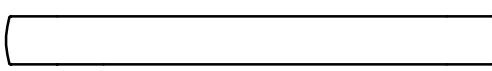
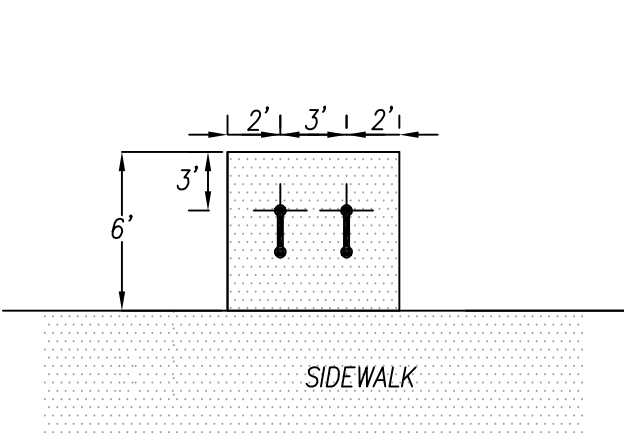
INSTALLATION PER MANUFACTURE.



DETECTABLE WARNING DOMES

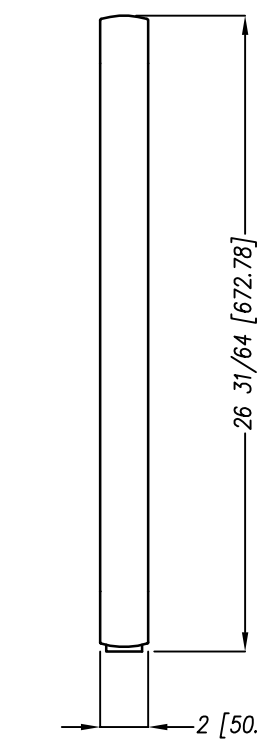
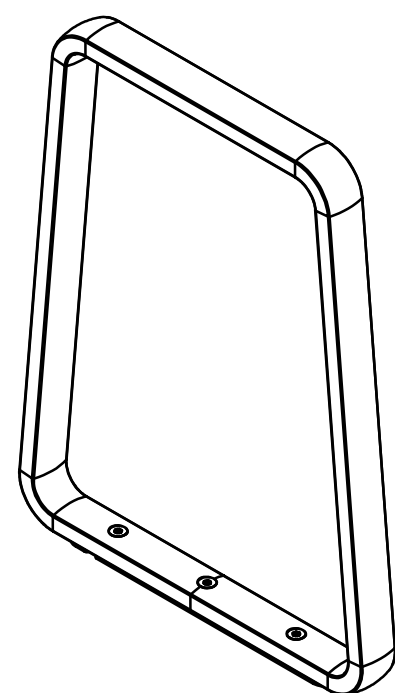
N.T.S.

- BIKE RACK:
- MAGLIN ICONIC BIKE RACK 2300 SERIES OR APPROVED EQUAL.
 - COLOR: BLACK.
 - INSTALLATION: SURFACE MOUNT AS PER MANUFACTURER'S RECOMMENDATION.
 - QUANTITIES SHOWN ON SITE PLAN REPRESENT NUMBER OF HOOPS.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



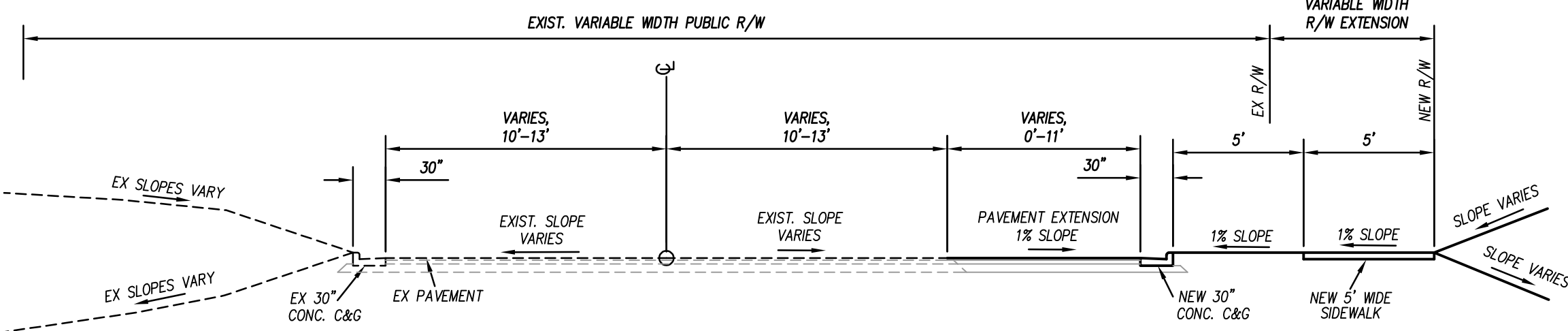
BIKE RACK DETAIL

N.T.S.



W. JUDD ST. WIDENING TYP. SECTION

N.T.S.



W. JUDD ST. WIDENING SECTION

N.T.S.



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING DETAILS

DATE 06-03-2025

CLH PROJECT NO 22-154

REVISIONS

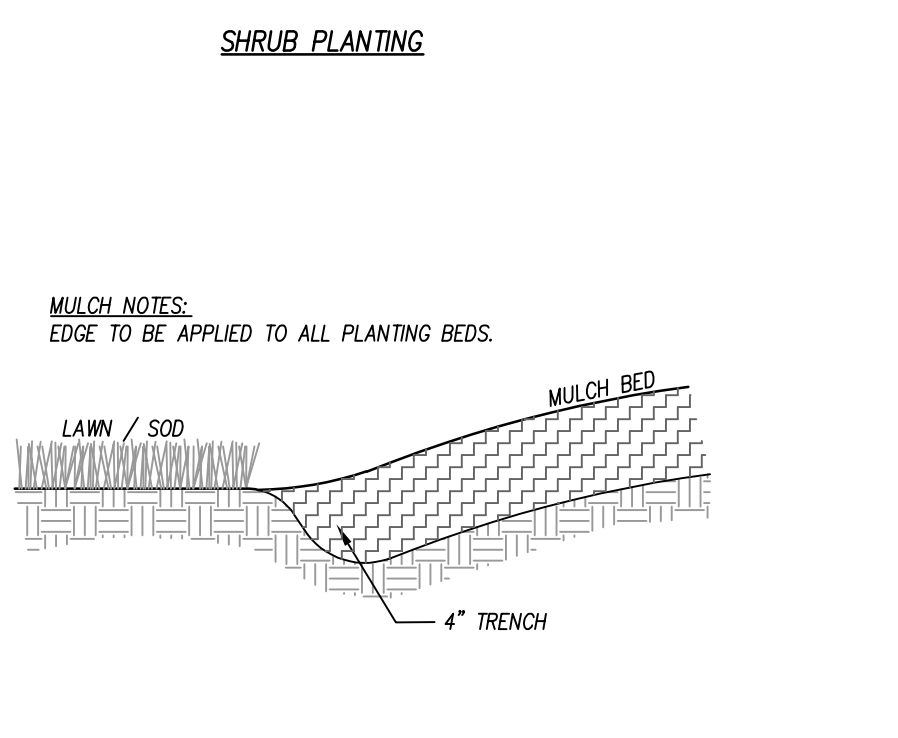
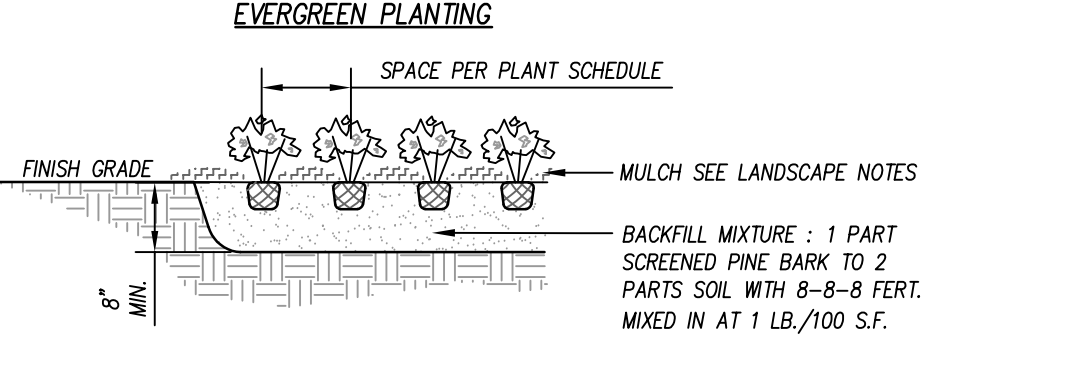
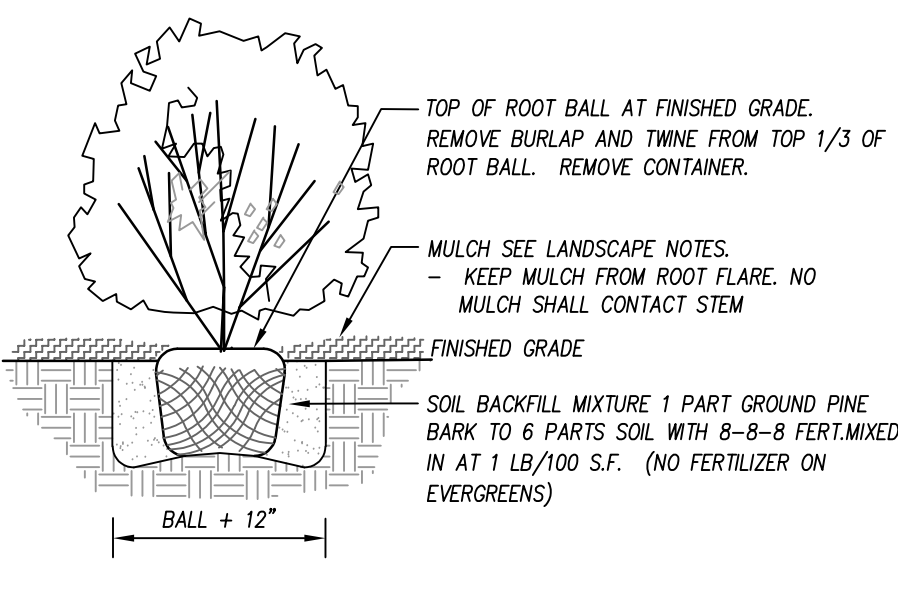
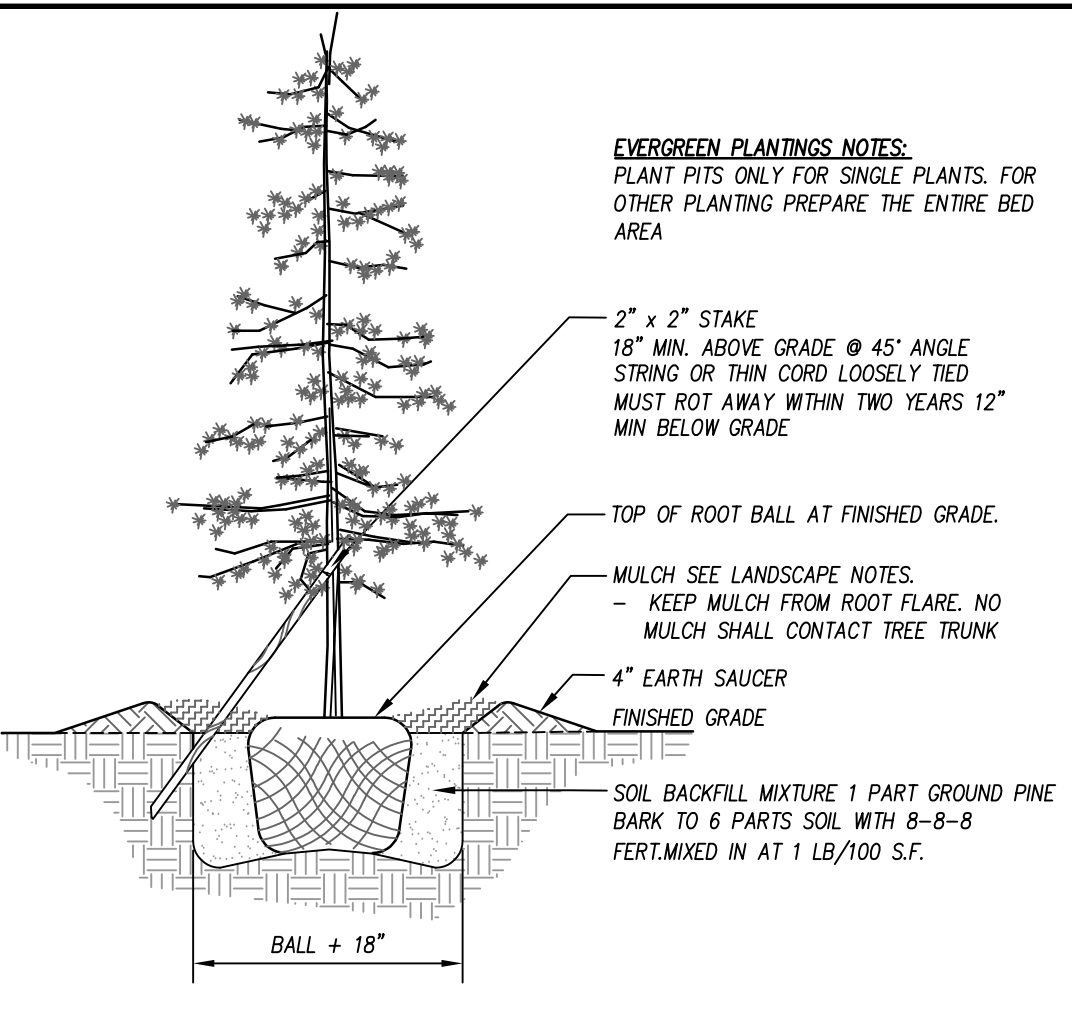
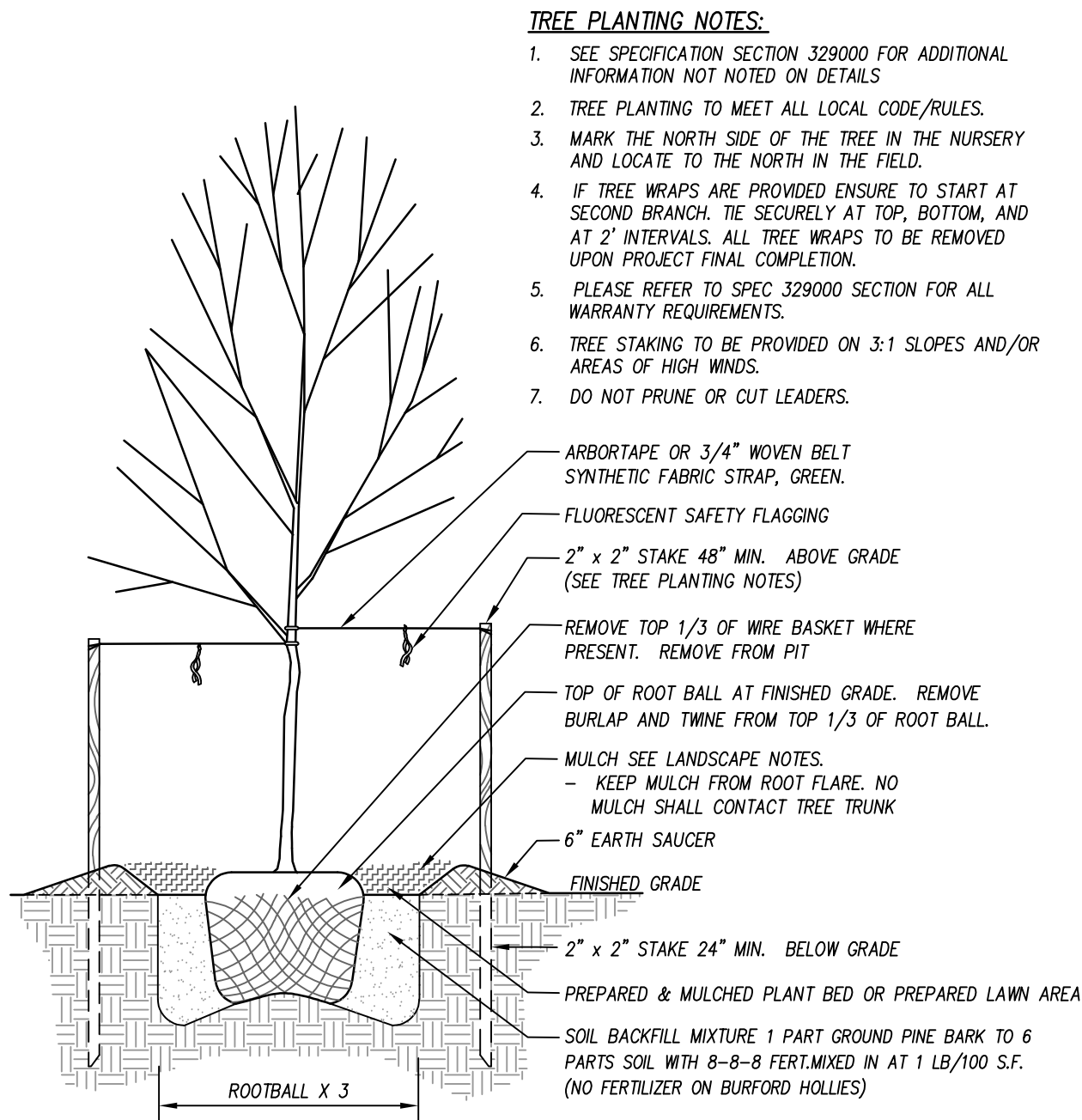
| NO | DATE | DESCRIPTION: |
|----|---------|--------------|
| 1 | 5/30/25 | ADDENDUM #1 |

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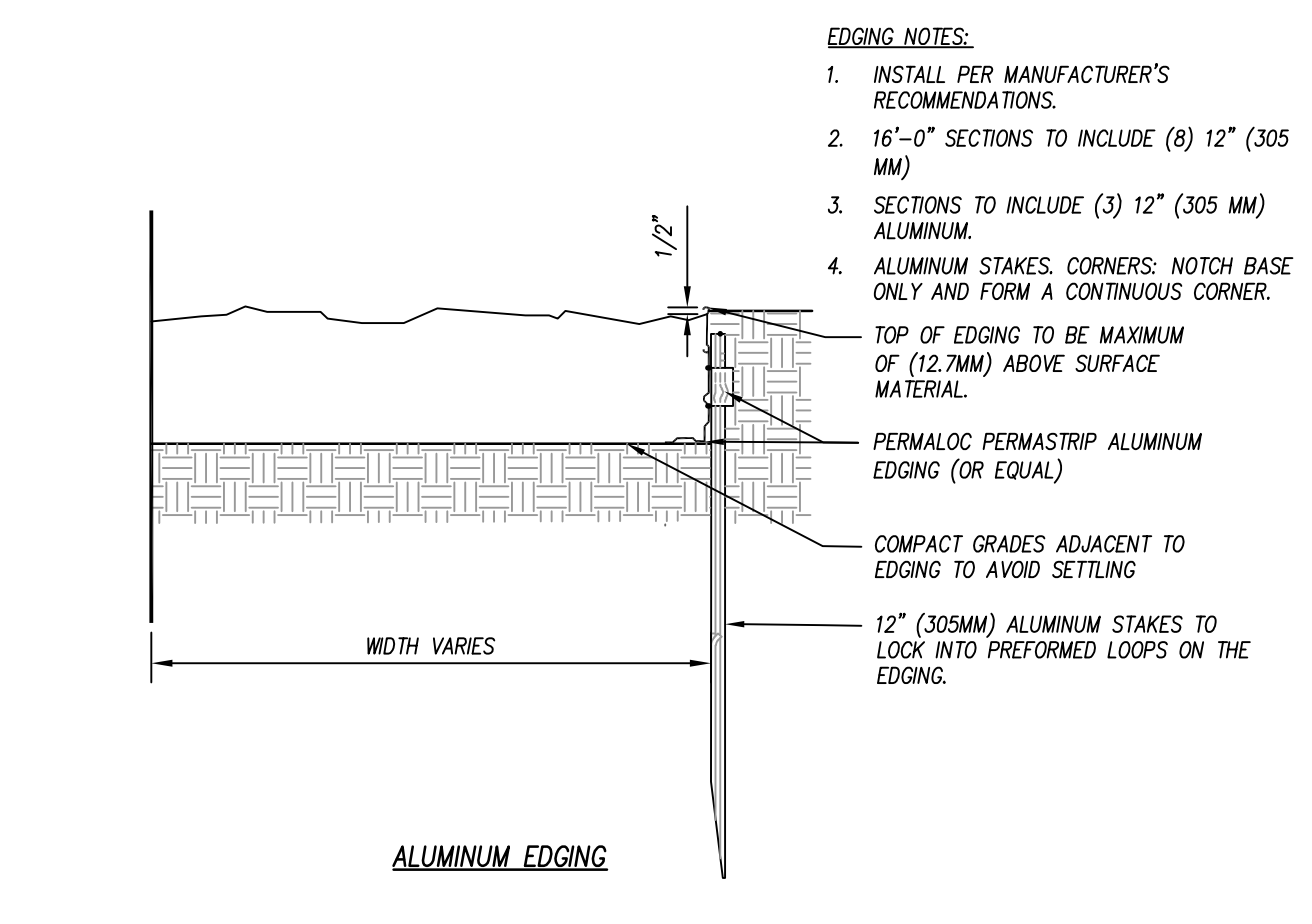
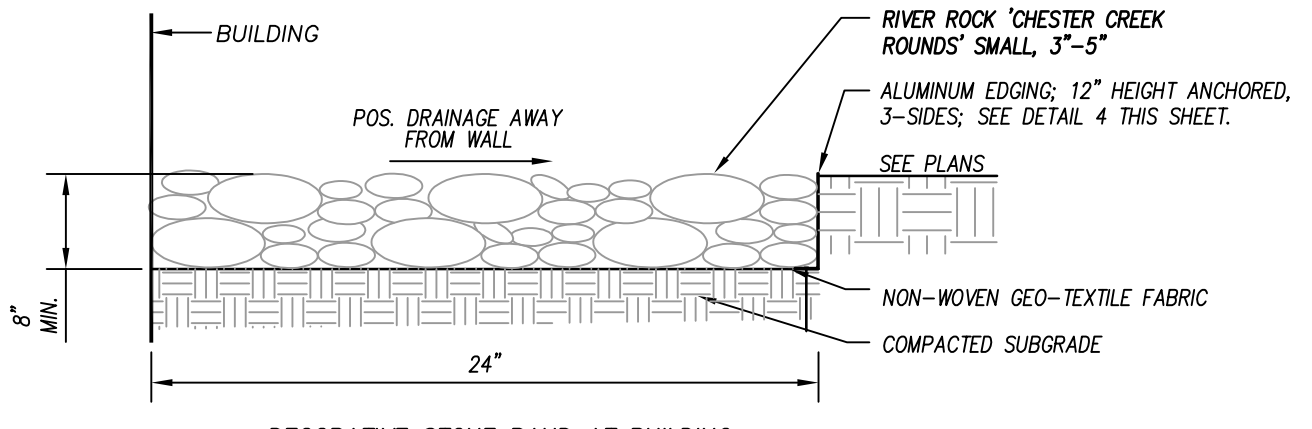
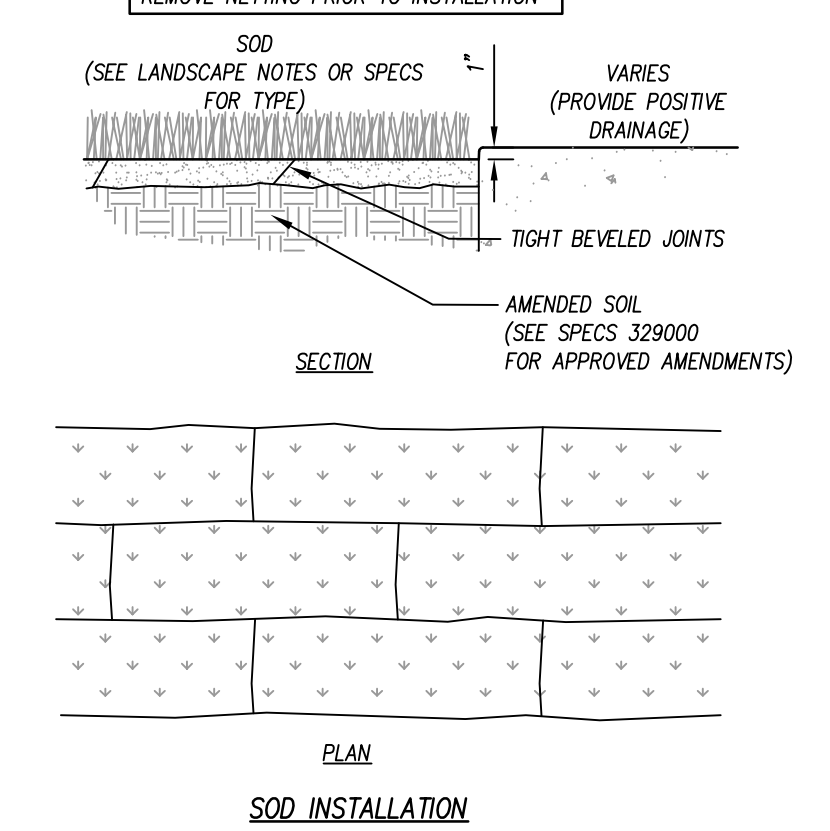


SHEET NUMBER

C902

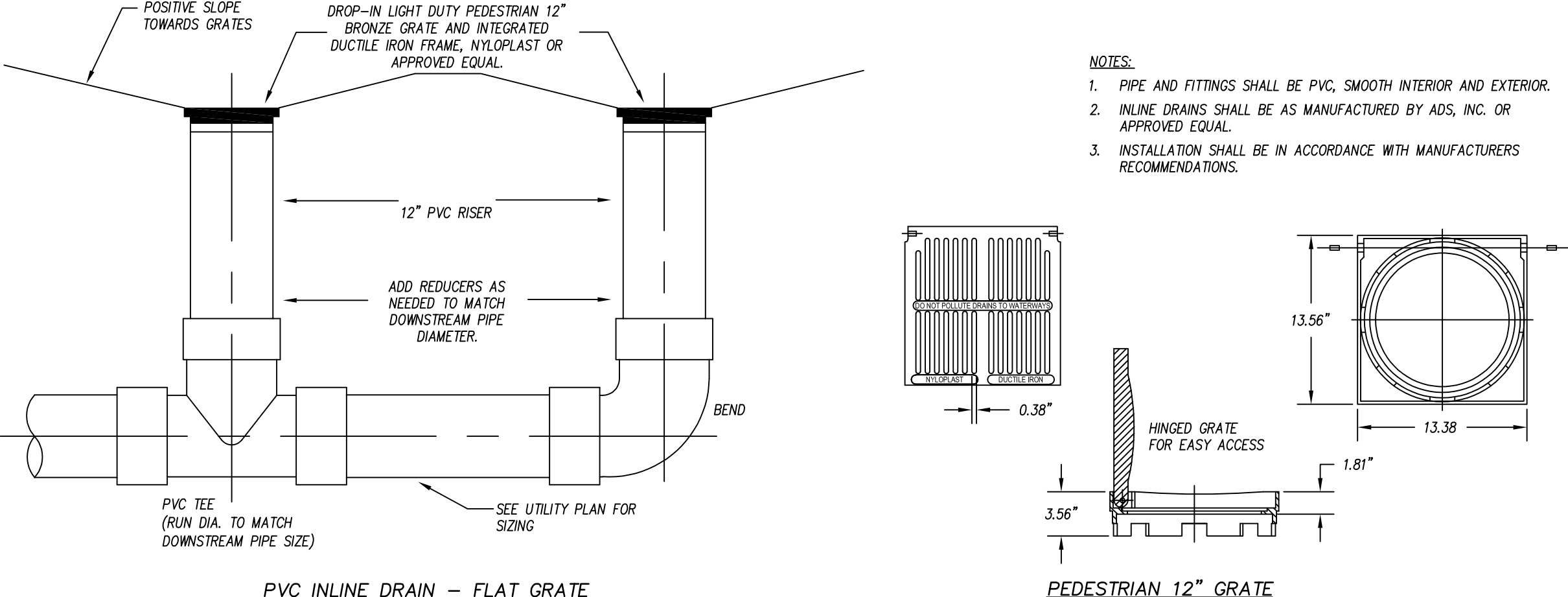


- SOD MAINTENANCE NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR SOD MAINTENANCE UNTIL FINAL COMPLETION.
 - PLEASE REFER TO SPEC 329000 FOR ALL SOD INSTALLATION REQUIREMENT, WARRANTIES AND MAINTENANCE TILL FINAL COMPLETION
 - CONTRACTOR MUST MEET 95% SOD ESTABLISHMENT FOR FINAL COMPLETION. REFER TO SPEC 329000 SECTION 1.9. & 1.12 FOR ALL APPLICABLE REQUIREMENTS.
 - SOD INSTALLED INSTALLED OUTSIDE GROWING SEASON WILL NEED TO MEET THE FOLLOWING SECTION 329000 SECTIONS 1.9 & 1.12
 - PLEASE REFER TO SPEC 329000 SECTION 1.10 FOR ALL WARRANTY REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR REGULAR MOWING AND FOR FURNISHING AND APPLYING ADEQUATE WATER TO THE INSTALLED SOD UNTIL PROJECT FINAL COMPLETION BUT NO LESS THAN 4-WEEKS FOLLOWING SOD INSTALLATION.
 - WATERING SHALL BE MONITORED TO ENSURE PROPER RATES ARE APPLIED. OVER-WATERING SHALL BE AVOIDED.
 - DEAD OR DYING SOD SHALL BE REPLACED PRIOR TO OWNER'S ACCEPTANCE.



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 SHREDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN 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-TUF BERMUDA. 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LIMITS.
- ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

| 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 WILLET *** 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: | | |
|----------------------------------|--|--|
| 1. | 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. | |
| 2. | 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 SEEDS 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 S.F.).
 - MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
 - SEE NCEQD GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

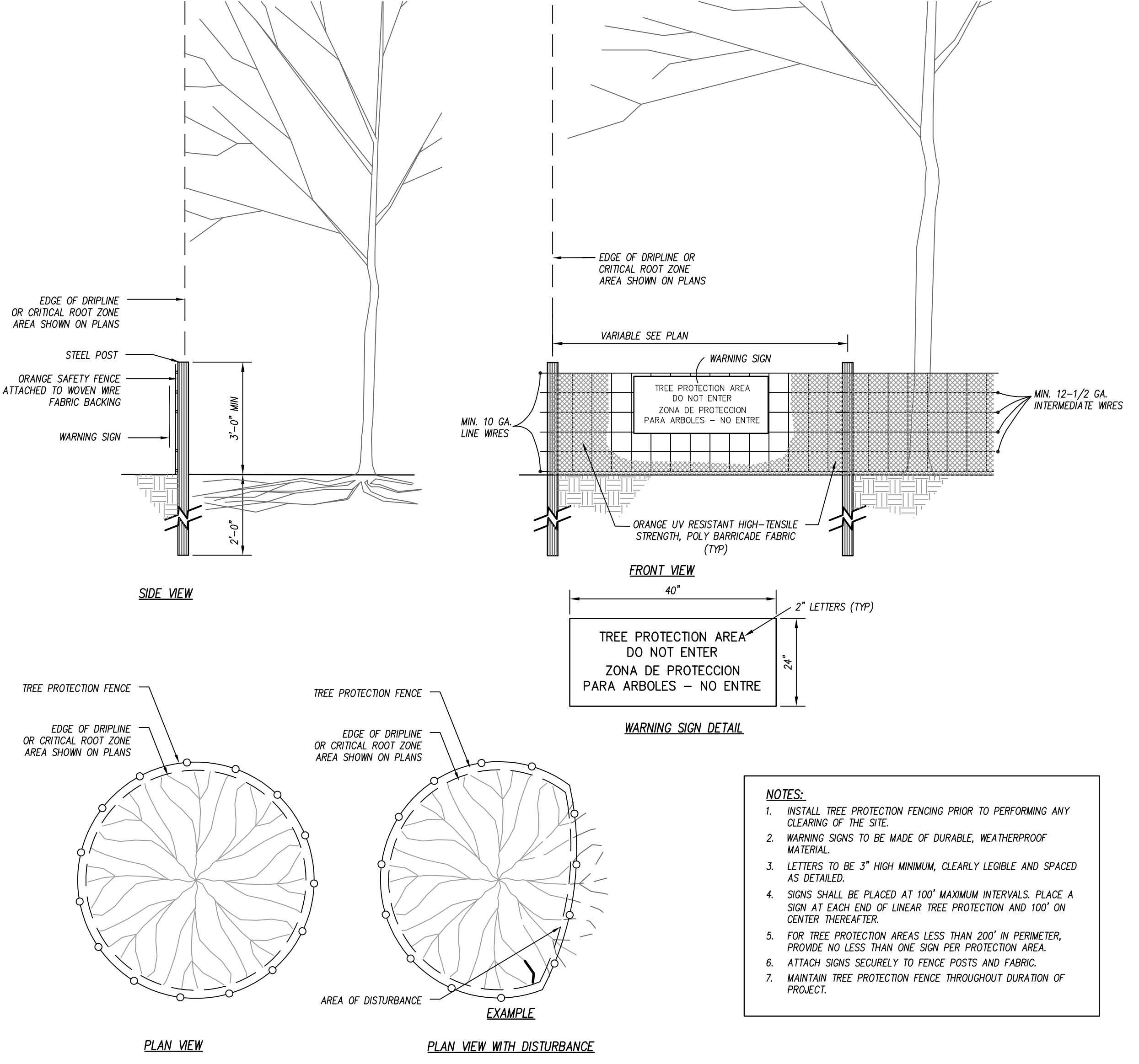
| PERMANENT SEEDING SCHEDULE | | |
|----------------------------|--|----------------|
| DATE | TYPE | SEEDING RATE |
| APR 15 - JULY 15 ** | HULLED SUNSTAR OR RIVERA BERMUDA | 150 LBS/ACRE * |
| JULY 15 - AUG 15 | SUNSTAR OR RIVERA BERMUDA (WATERING AT CONTRACTOR'S EXPENSE) | 150 LBS/ACRE * |

* 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 GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
 - INSPECT ALL SEEDS 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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**ZEBULON
PUBLIC SAFETY
STATION**

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ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

LANDSCAPE DETAILS

| | | |
|----------------|------------|--------------|
| DATE | 06-03-2025 | |
| CLH PROJECT NO | 22-154 | |
| REVISIONS | | |
| NO | DATE | DESCRIPTION: |
| 1 | 5/30/25 | ADDENDUM #1 |

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SHEET NUMBER

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