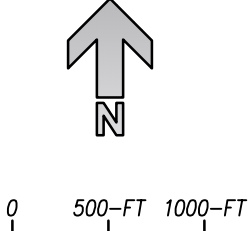
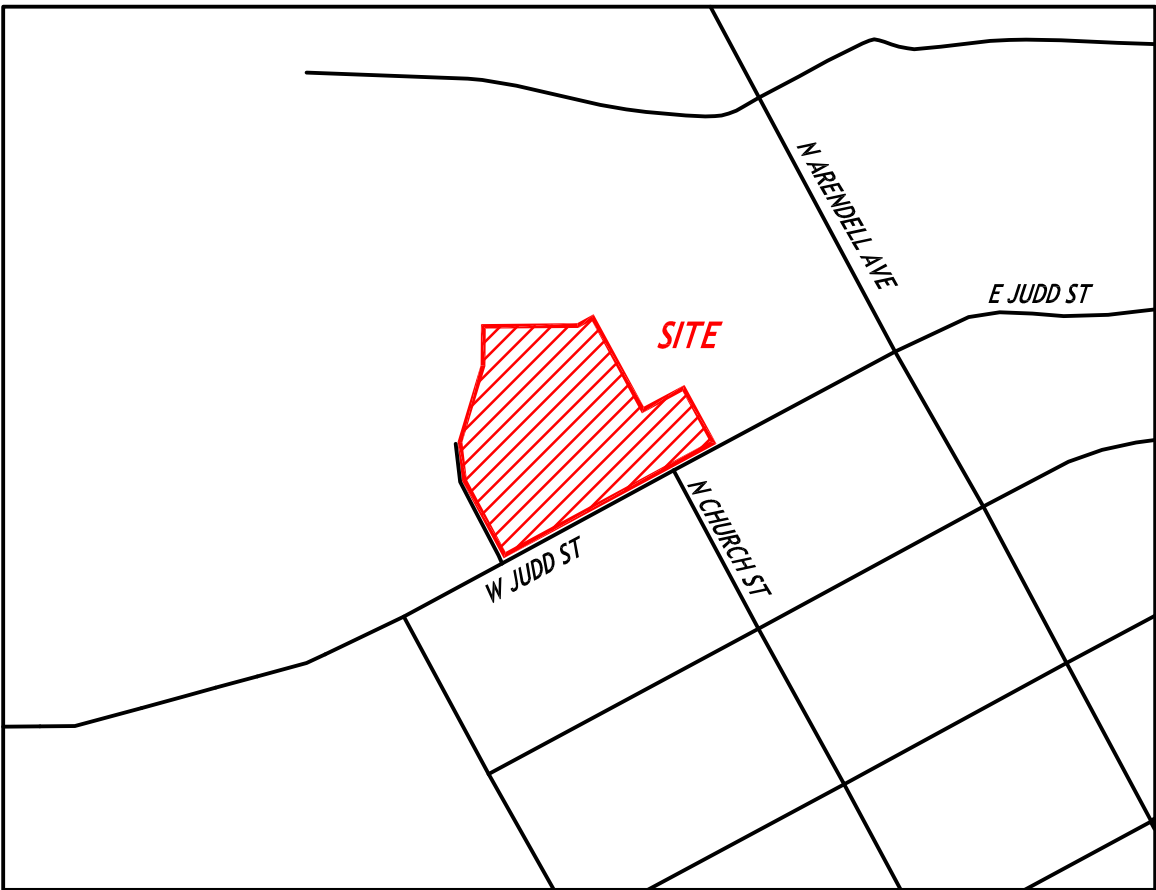


CONSTRUCTION DOCUMENT FOR:
ZEBULON PUBLIC SAFETY STATION

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:	4.0 ACRES
EXISTING IMPERVIOUS AREA:	0 ACRES
PROPOSED IMPERVIOUS AREA:	±1.95 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	DEMO PLAN
C301	GRADING PLAN
C501	UTILITY PLAN
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
ARCHITECTURAL	
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A501	DUMPSTER ENCLOSURE DETAILS
ELECTRICAL	
E100-SP	ELECTRICAL SITE PLAN
STRUCTURAL	
S301	FOUNDATION DETAILS

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

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.

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Infrastructure Inspections Division and schedule a Pre-construction meeting on the Development Portal prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

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

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

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ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

COVER SHEET

DATE 04-28-2025
CLH PROJECT NO 22-154

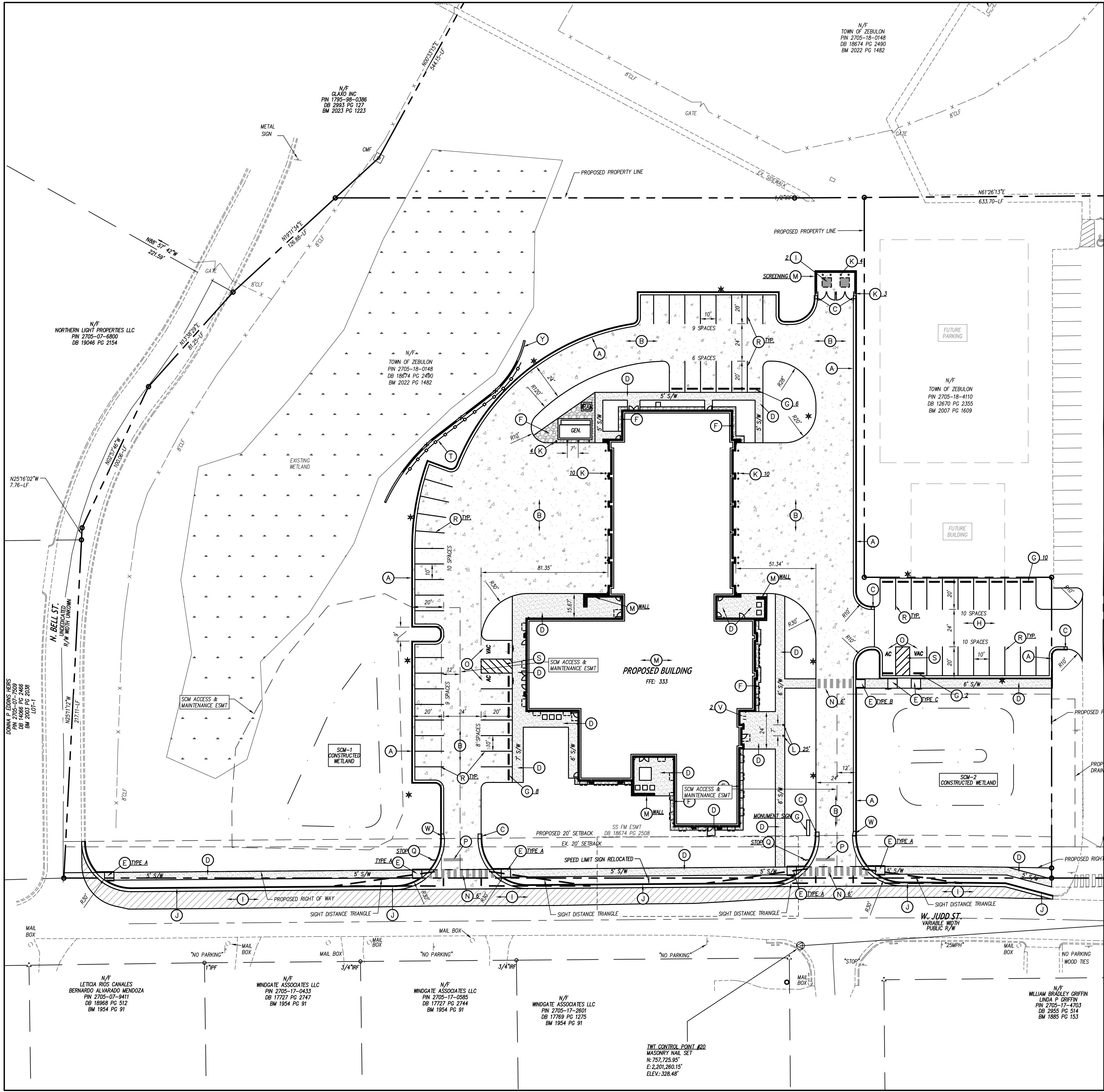
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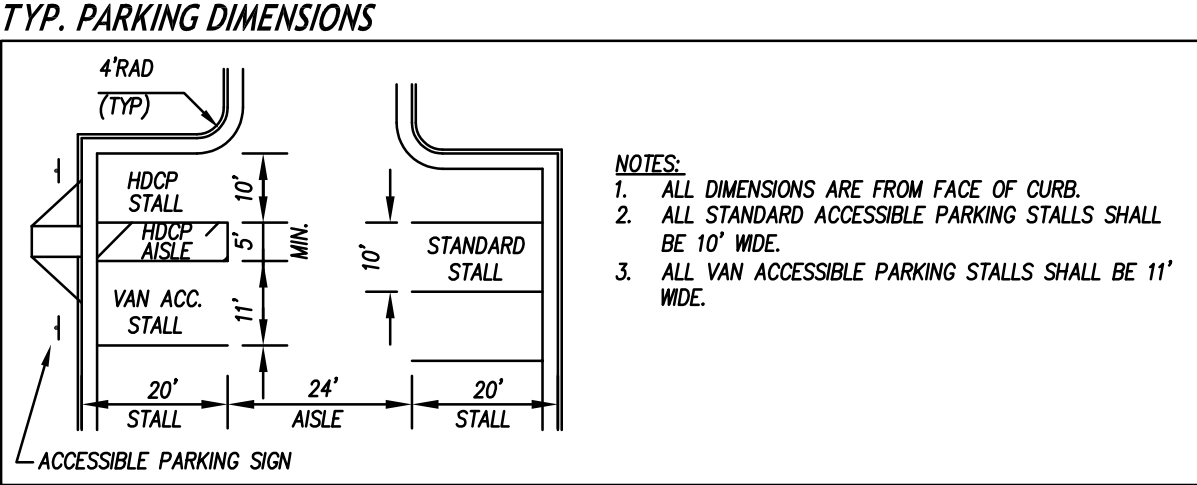
SHEET NUMBER

C001

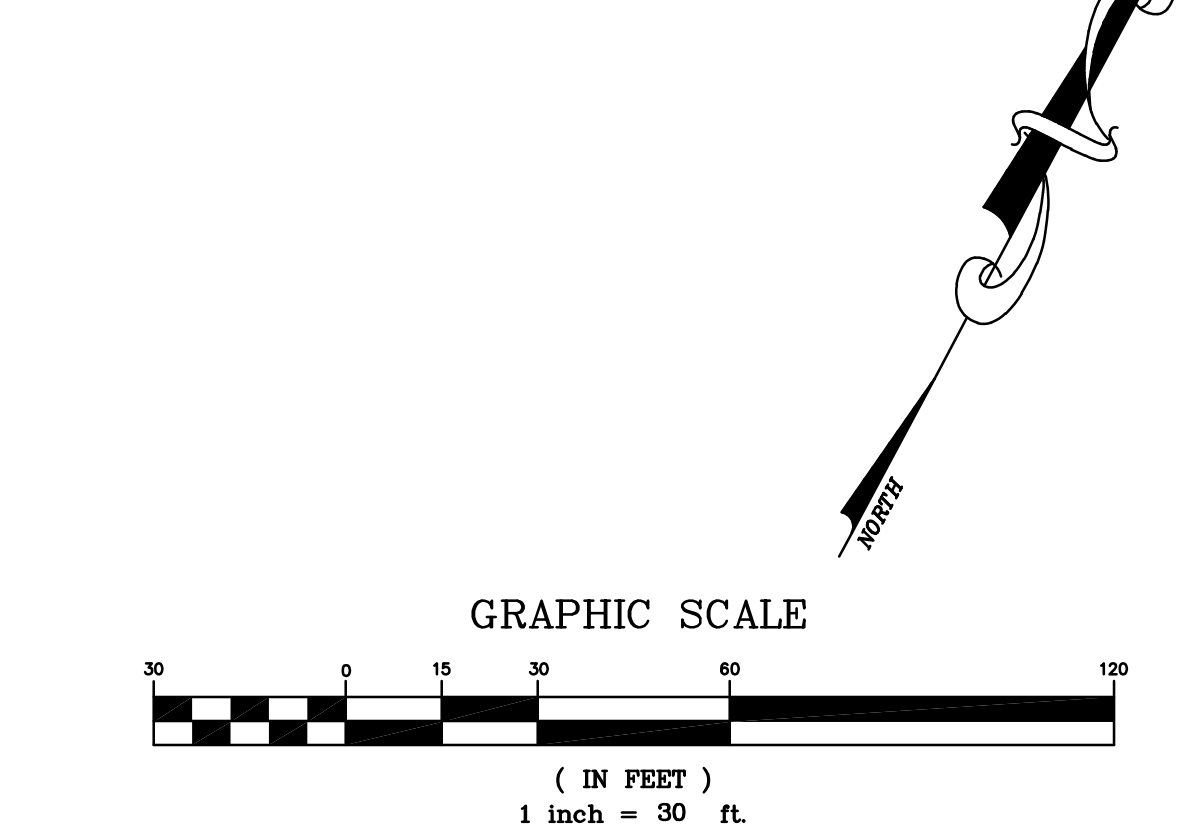


- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
 - CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - ALL FACE OF RADI ARE 4'-FT UNLESS OTHERWISE SHOWN.
 - ALL PARKING SPACES SHALL BE A MINIMUM OF 10'-FT WIDE X 20'-FT DEEP.
 - (AC) DENOTES ACCESSIBLE PARKING SPACE.
 - (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
 - ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
 - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
 - NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

- KEY NOTES**
- (A) 24"-IN CURB & GUTTER, SEE DETAIL SHEET C901.
 - (B) HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET C901.
 - (C) STANDARD CURB & GUTTER TERMINUS, SEE DETAIL SHEET C901.
 - (D) CONCRETE SIDEWALK, SEE DETAIL SHEET C901.
 - (E) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C902.
 - (F) DECORATIVE STONE BAND, SEE DETAIL SHEET C903.
 - (G) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C902.
 - (H) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
 - (I) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
 - (J) 30"-IN CURB & GUTTER, SEE DETAIL SHEET C901.
 - (K) STEEL BOLLARD, SEE ARCH. DETAIL SHEET A500.
 - (L) FLAGPOLE, SEE DETAIL SHEET C901.
 - (M) SEE ARCHITECTURAL PLANS FOR CANOPY, SCREEN AND STRUCTURAL WALLS, BUILDING COLUMNS, BOLLARDS, AND MECHANICAL SERVICE YARD, MONUMENT SIGN.
 - (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.



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



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**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING PLAN

DATE 04-28-2025
CLH PROJECT NO 22-154

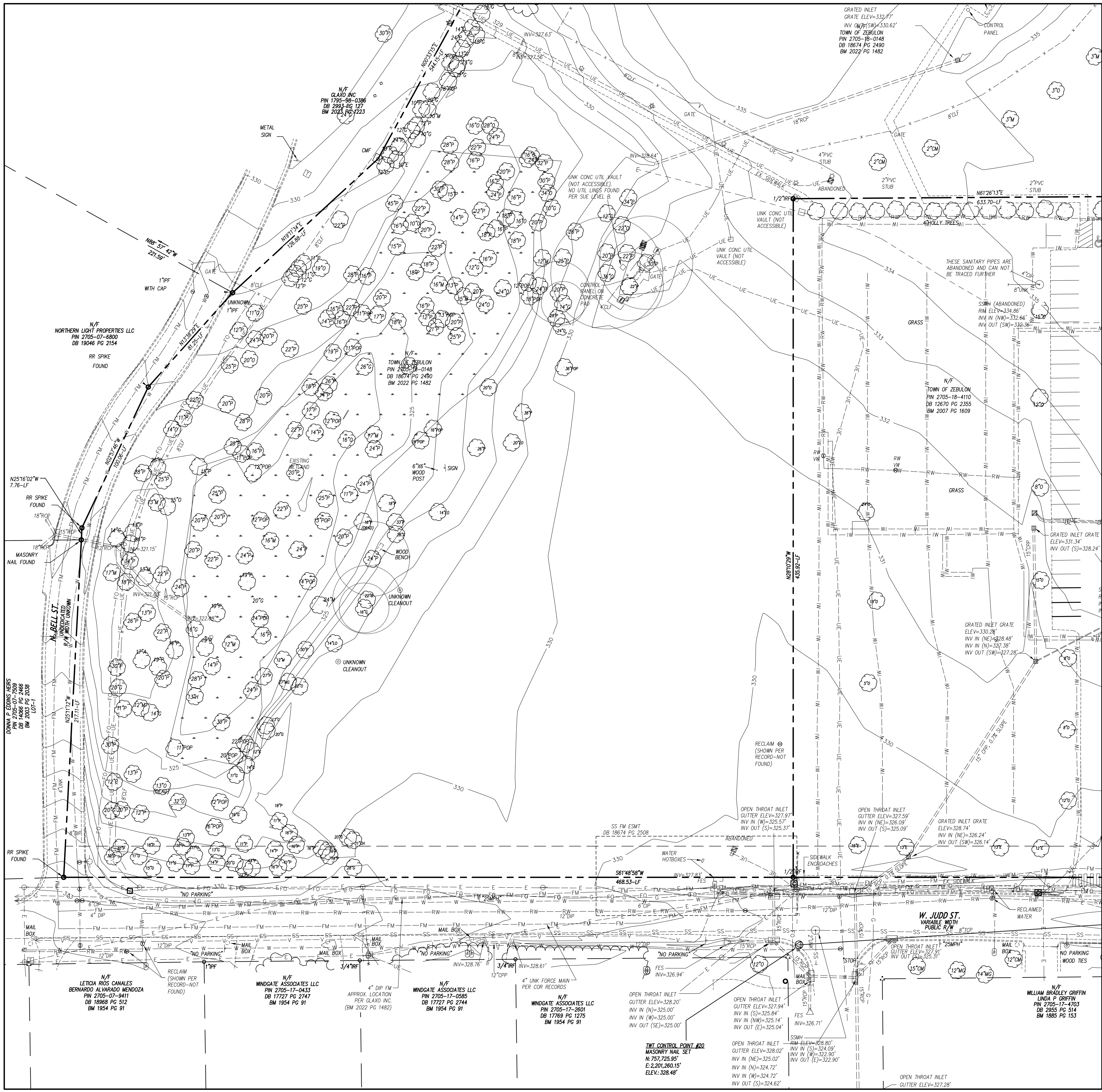
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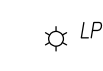
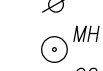
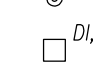
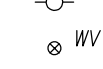
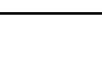


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PRELIMINARY PLANS
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SHEET NUMBER

C101



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



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

EXISTING CONDITION

DATE 04-28-2025

CLH PROJECT NO 22-154

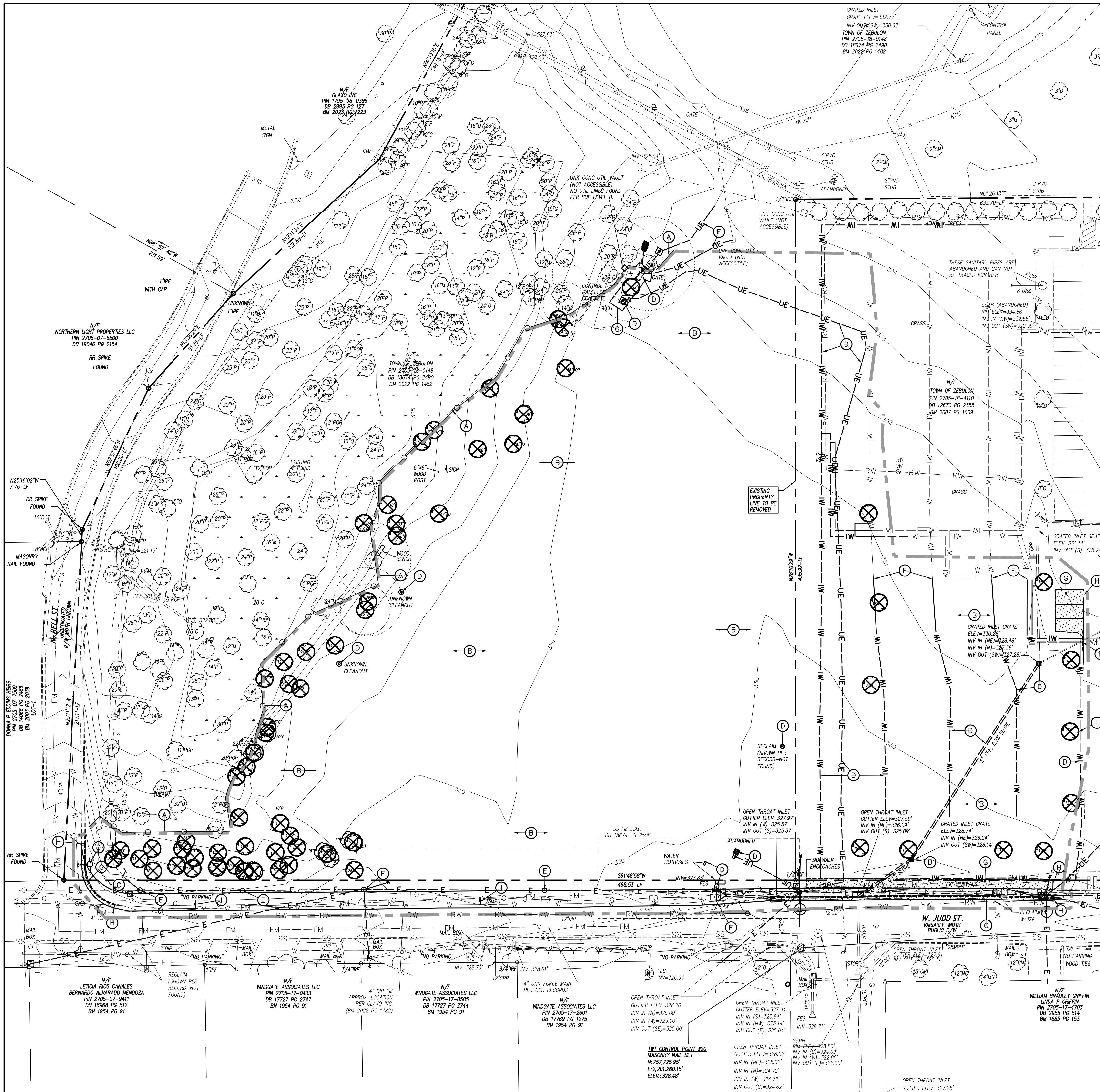
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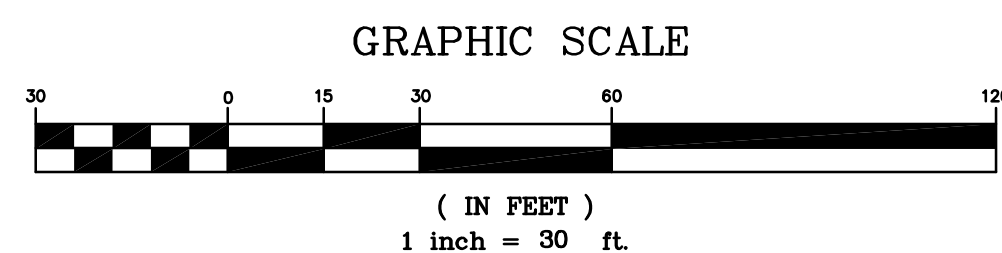
C201



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
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 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 Y. 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 4-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 UNLESS 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 (CONACT), 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.
 - CAP AND ABANDON UTILITY 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 PUBLIC SAFETY STATION

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ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

DEMO PLAN

DATE 04-28-2025
CLH PROJECT NO 22-154

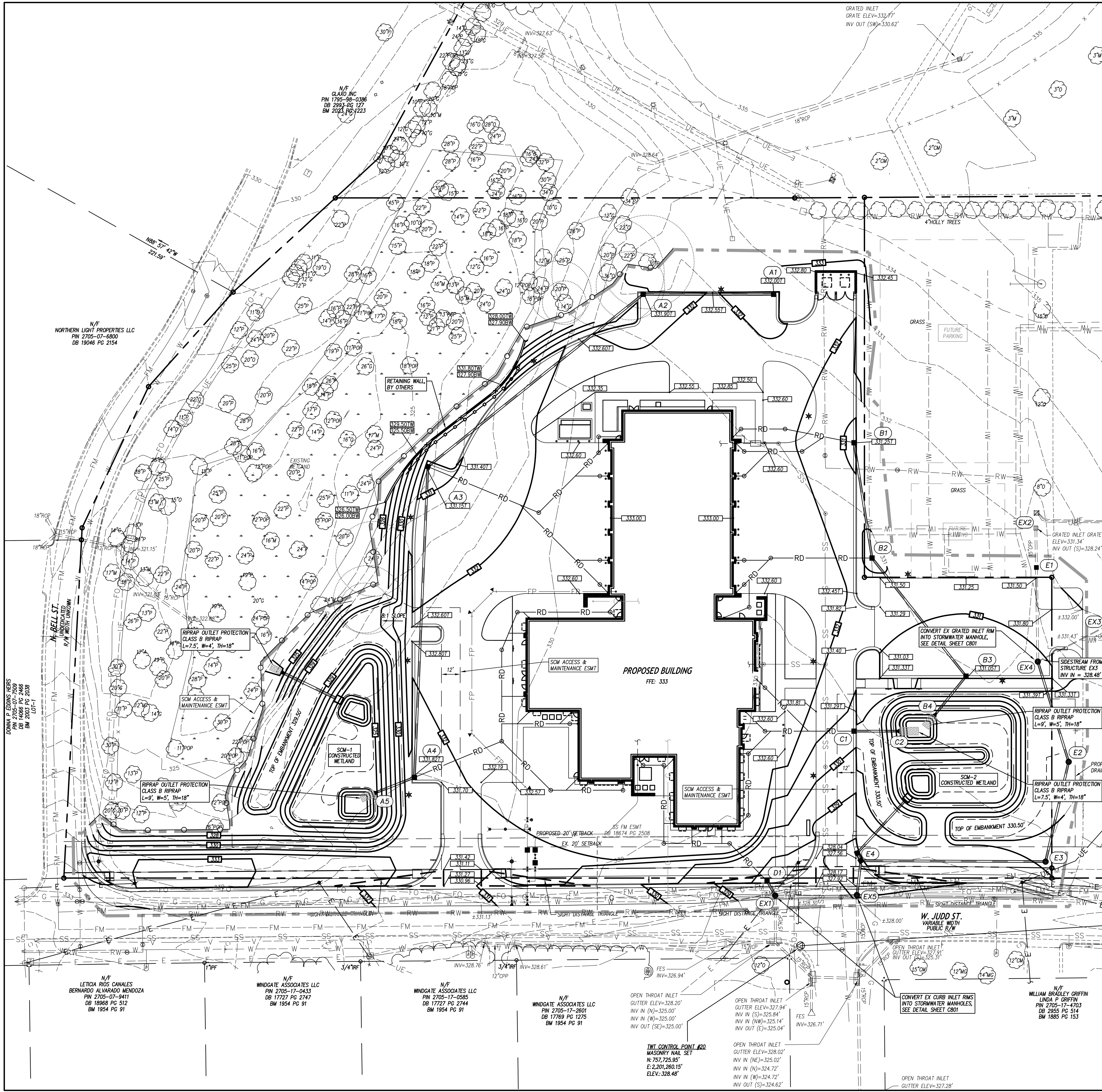
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SHEET NUMBER

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

TYP. GRADE DESIGNATIONS AT SITE WALLS

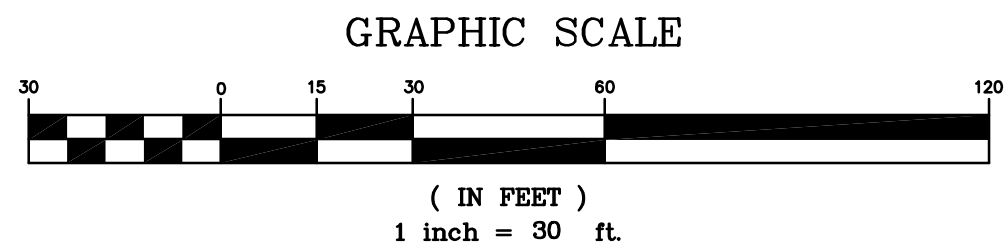
GENERAL NOTES

- 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 = 4.0 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 MATERIAL	UPPER INV. (FT)	LOWER INV. (FT)	TOP ELEV. (FT)	UPSTREAM STRUCTURE DATA				
UP STRM	DN STRM	SLOPE					IN V.	DEPTH (FT)	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%	16	28	RCP	324.70	324.50	331.82	7.12	CB	4
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	4
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	328.40	2.80	CI	6
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	7
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	E5	0.51%	15	118	RCP	326.00	325.40	328.50	3.50	MH	
E4	EX5	0.45%	24	22	RCP	325.30	325.20	328.06	2.76	DBL CB	5, 6
EX3	EX4	2.08%	6	106	EX CPP	330.68	328.48	333.58	2.90	JB	
LEGEND								NOTES			
A4								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 GRATES.			
								3. ALL PIPE INLETS & OUTLETS SHALL BE RCP.			
								4. DOWNSTREAM STRUCTURE IS A FEES.			
								5. UPSTREAM STRUCTURE IS A DOUBLE CATCH BASIN.			
								6. PIPE SHALL BE CLASS IV RCP.			
								7. UPSTREAM STRUCTURE IS A DOOGHUE OVER EXISTING PIPE.			



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ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

GRADING & DRAINAGE PLAN

DATE 04-28-2025

CLH PROJECT NO 22-154

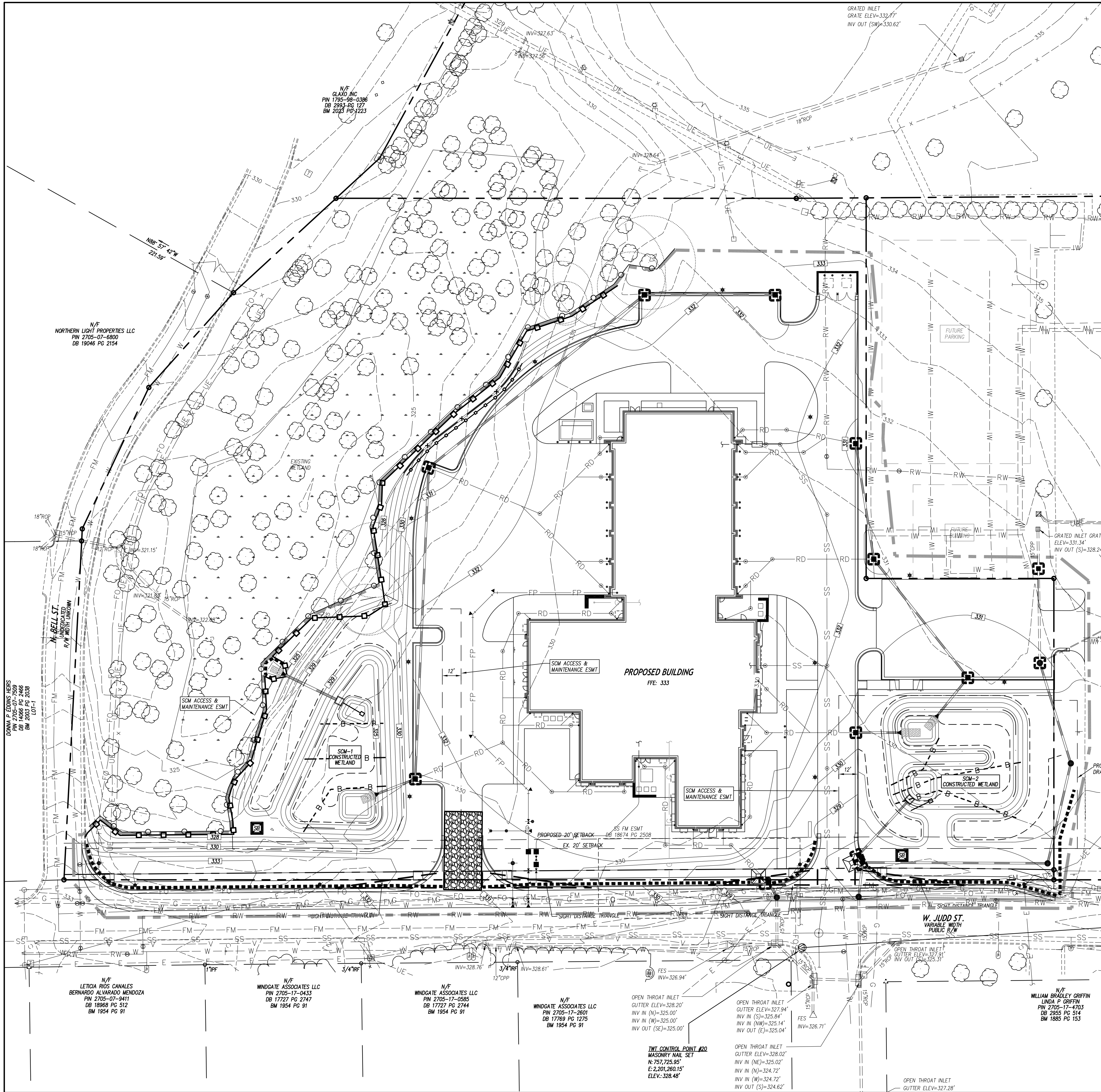
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SHEET NUMBER

C301



LEGEND

GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET TEMP. COMPOST SOCK INLET PROTECTION DEVICE, SEE DETAIL SHEET TEMP. SILT BAG INLET PROTECTION DEVICE, SEE DETAIL SHEET TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET TEMP. SILT FENCE, SEE DETAIL SHEET TEMP. REINFORCED SILT FENCE, SEE DETAIL SHEET TEMP. J-HOOK PROTECTION, SEE DETAIL SHEET PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET TEMP. PLASTIC LINING, SEE TEMP. BASIN BAFFLES DETAIL SHEET TEMP. ROCK CHECK DAM, SEE DETAIL SHEET TEMP. COFFER DAM, SEE STREAM CROSSING/CULVERT INSTALLATION DETAIL SHEET TEMP. LEVEL SPREADER, SEE DETAIL SHEET TEMP. TIMBER/BRIDGE MAT, SEE DETAIL SHEET TEMP. EXCAVATED INLET, SEE DETAIL SHEET	TSSB TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEET TEMP. BAFFLES, SEE DETAIL SHEET EXISTING CONTOUR TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.) TEMP. ROCK PIPE INLET PROTECTION, SEE DETAIL SHEET CHANNEL LINING, SEE DETAIL SHEET TEMPORARY SLOPE MATTING SLOPES 6:1 OR STEEPER TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET TREE PROTECTION FENCE, SEE DETAIL SHEET TEMP. COMPOST SOCK, SEE DETAIL SHEET TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET TEMP. SLOPE DRAIN, SEE DETAIL SHEET PROPOSED STORM SEWER PIPES EXISTING STORM SEWER PIPES CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED REINFORCED SILT FENCE OUTLET W/ STORAGE, SEE DETAIL SHEET TRACK-OUT MAT CONSTRUCTION ENTRANCE, SEE DETAIL SHEET
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- ### GENERAL NOTES
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON, NCDEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIAL.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
 - TOTAL DISTURBED AREA: 4.1 AC.
 - ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET.
 - 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 INTO THE EXISTING DRAINAGE. TEMPORARY MATTING SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 - THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
 - SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 - 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.
 - THE 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 WITH THE LAND DEVELOPMENT ORNAMENT.
 - ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET (PERMANENT CHANNEL) AND (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
 - ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
 - ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
 - GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
 - CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT OWNERS DISCRETION.
 - CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

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

SELF-INSPECTION RULES

SEE SHEET _____ FOR SELF-INSPECTION REQUIREMENTS.

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

SLOPE & SURFACE STABILIZATION

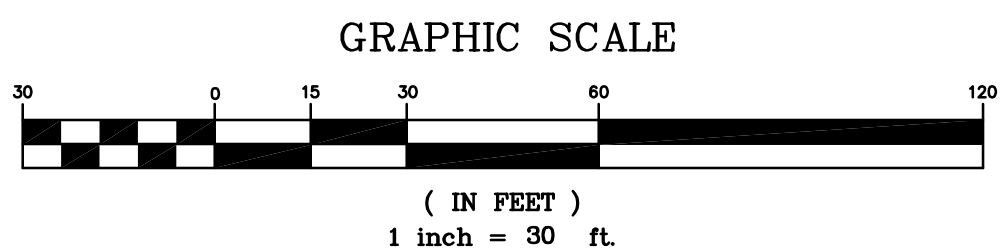
GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET _____.

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 _____ 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 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 COCOON MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312.02 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET _____ EROSION CONTROL CONSTRUCTION SEQUENCE



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

EROSION CONTROL PLAN

DATE 04-28-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

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1. ALL MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS, & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)

2. UTILITY SEPARATION REQUIREMENTS:

- a. 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.
- b. 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. THIS MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
- c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10" ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER UTILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
- e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & ROP" STORM DRAIN CROSSINGS, 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & ROP" STORM DRAIN CROSSEINGS. HOWEVER, ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CATCH BASIN 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
- f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER UTILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.

3. 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.

4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVELING PRIVATE PROPERTY.

5. 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.

6. SEWER BYPASS PUMPING – A BYPASS PLAN SIGNED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER TO PUMPED OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.

- a. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- b. 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 ALL MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.

9. 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.

10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.

11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.

12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A FLUMING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.

13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.

14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI. BACKFLOW PREVENTERS ARE REQUIRED ON ALL SANITARY WATER SERVICES HAVING BUILDING DRAINS LOWER THAN 1' ABOVE THE NEXT UPSTREAM MANHOLE.

15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDDO, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.

16. NCOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.

17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FDS PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 986-4516 OR FDS@RALEIGHNC.GOV FOR MORE INFORMATION.

18. 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.

19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.

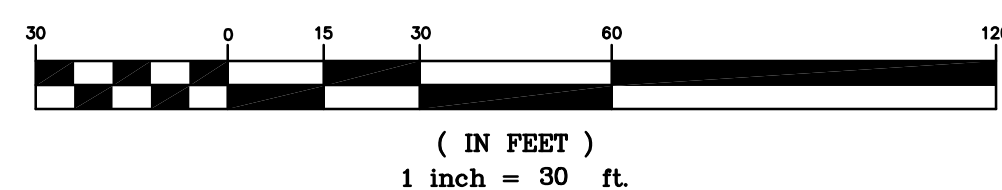
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.

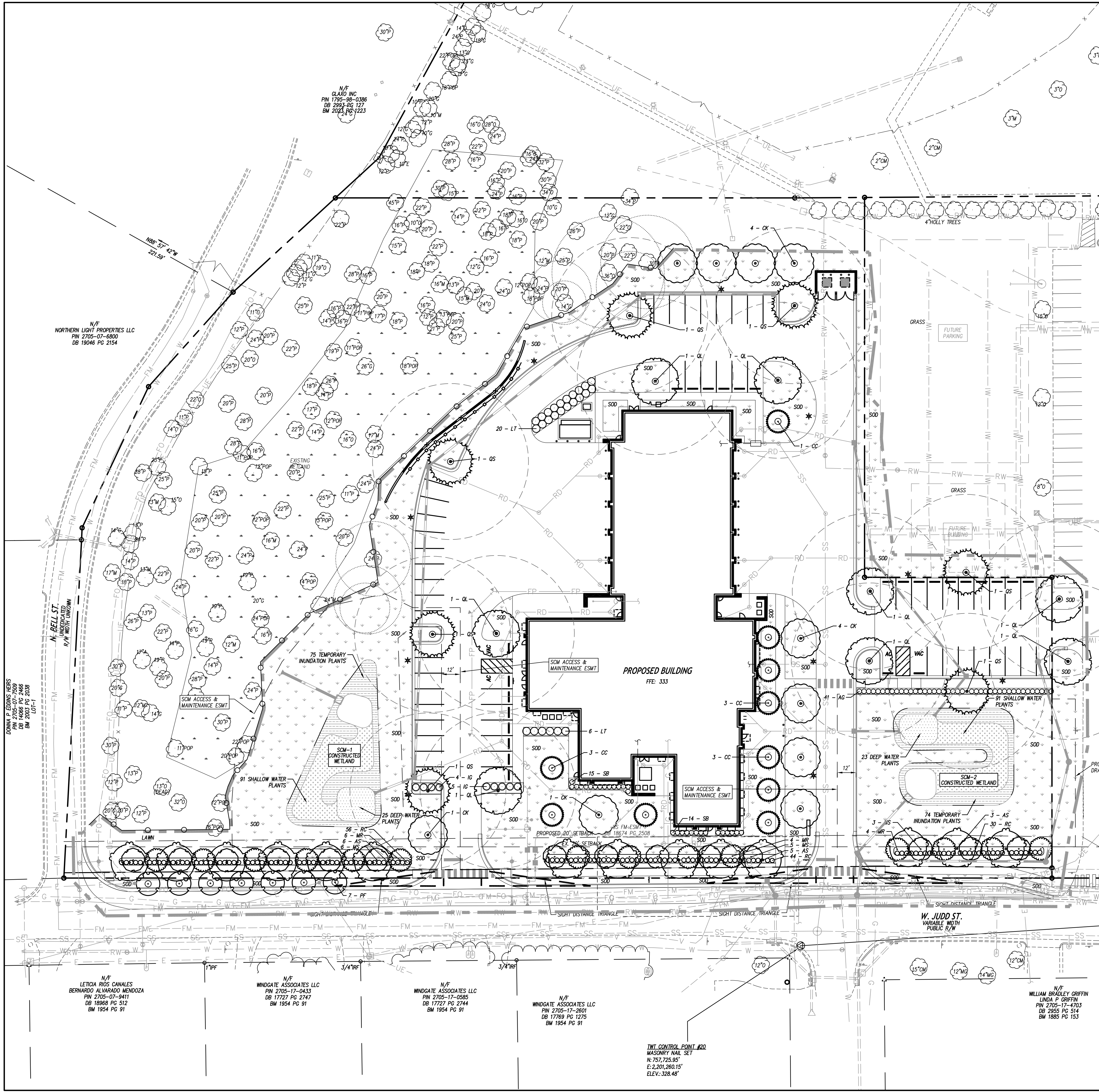
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.

22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN \$250,000.00 MUST UNDERGO THE PUBLIC BUILDING PROCESS.

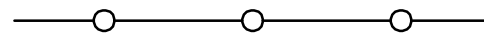
23. PRIVATE SUB-METERING – NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFEGUARDING WATER ACT".

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN CODE OF ZERULON AND NCDDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. 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.
3. 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.
4. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
5. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
6. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
7. 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.
8. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
9. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSCB AND OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
12. 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.
13. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
14. 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.
15. 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.
16. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
17. 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.





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 EASTERN REDBUD	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN.	6' HT. MIN.
CK	10	CLADRASTIS KENTUCKEA AMERICAN YELLOWWOOD	B&B, STRAIGHT TRUNK, FULL CROWN	2" MIN.	8' HT. MIN.
MR	14	MAGNOLIA STELLATA "ROYAL STAR" ROYAL STAR MAGNOLIA	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 INKBERRY HOLLY	CONT.	-	18"-24" HT.
LT	26	LIGUSTRUM JAPONICUM "TEXANUM" TEXAS JAPANESE PRIVET	CONT.	-	36" HT. MIN.
RC	130	RHOENODENDRON CATAMBENSE CATAMBA RHODODENDRON	CONT.	-	18"-24" HT.
SB	29	SPIRAEA BETULIFOLIA BIRCHLEAF SPIREA	CONT.	-	18"-24" HT.
SOD				SEE DETAIL SHEET C903	
TREE PROTECTION FENCE, SEE EROSION CONTROL PLANS					

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	NYPHAEAE ODORATA - WATERLILY	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.
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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. (500/1000)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. (444/1000)X50 = 23 PLANTS
PLANTINGS PROVIDED: 23 PLANTS

NOTES

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

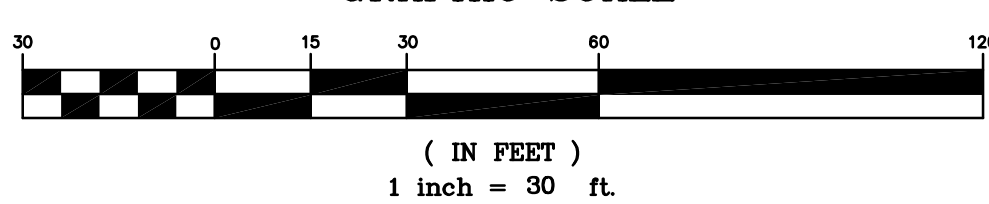
WETLAND SOIL MIX

- 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:
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.

LANDSCAPE CALCULATION

EXISTING 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.
NORTH BELL STREET - STREETSCAPE BUFFERS
- **NO DEVELOPMENT, EXISTING WETLAND ACCELERATION.
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: 55 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 04-28-2025

CLH PROJECT NO 22-154

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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 unattended 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.

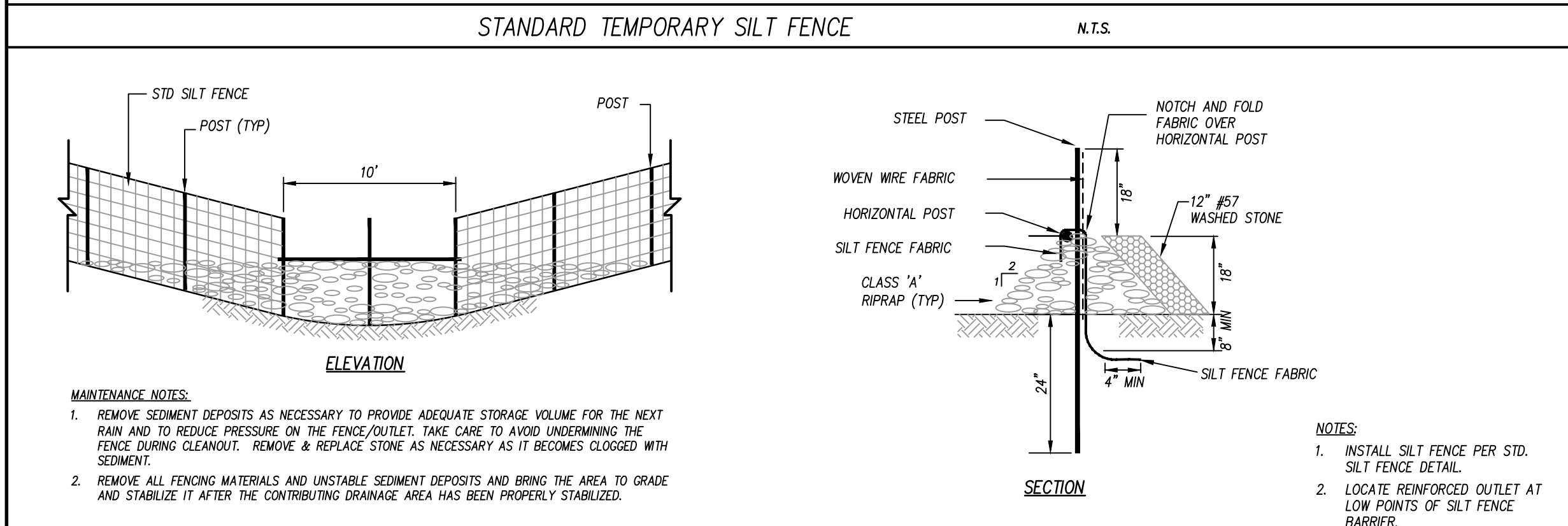
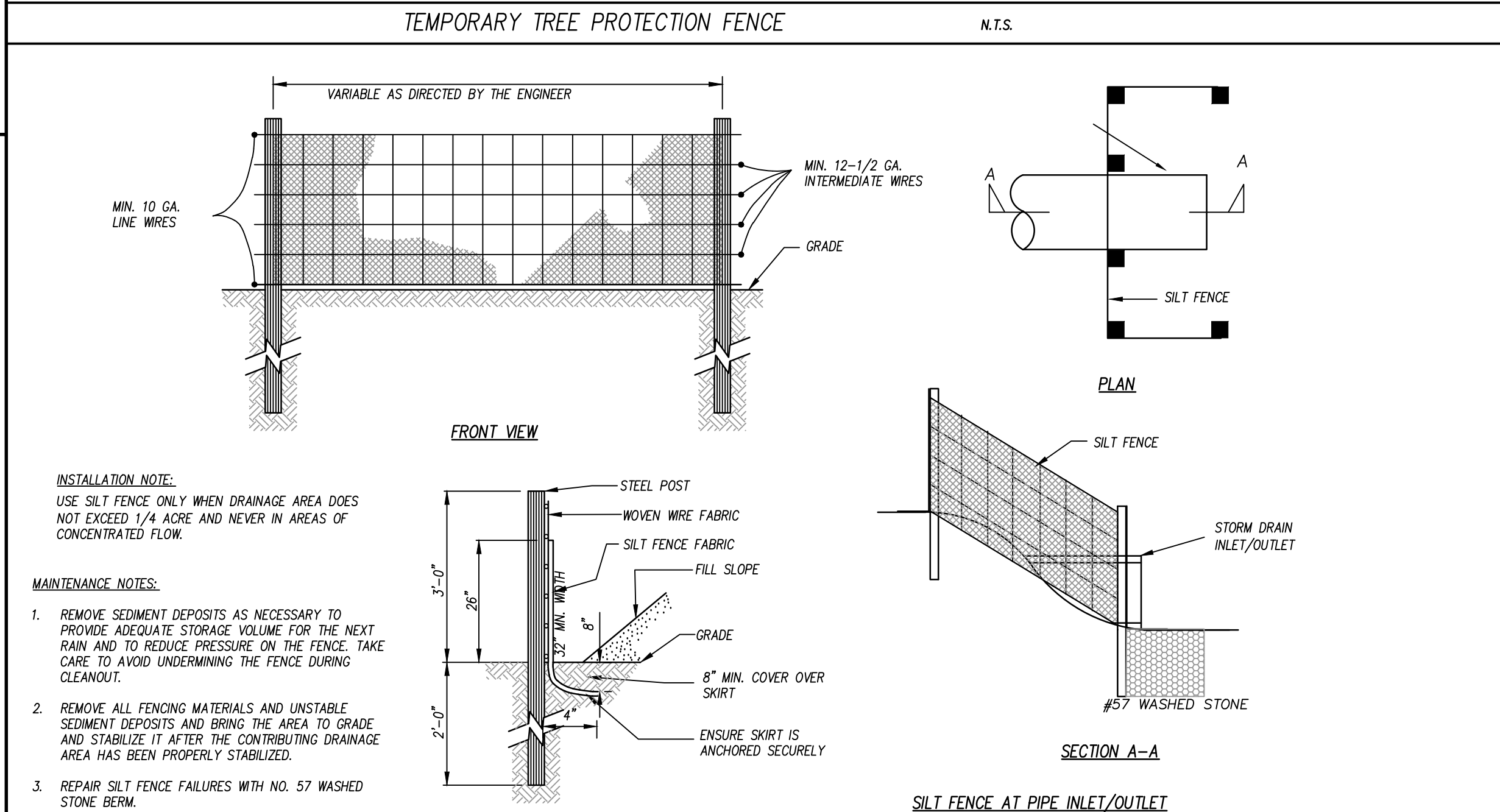
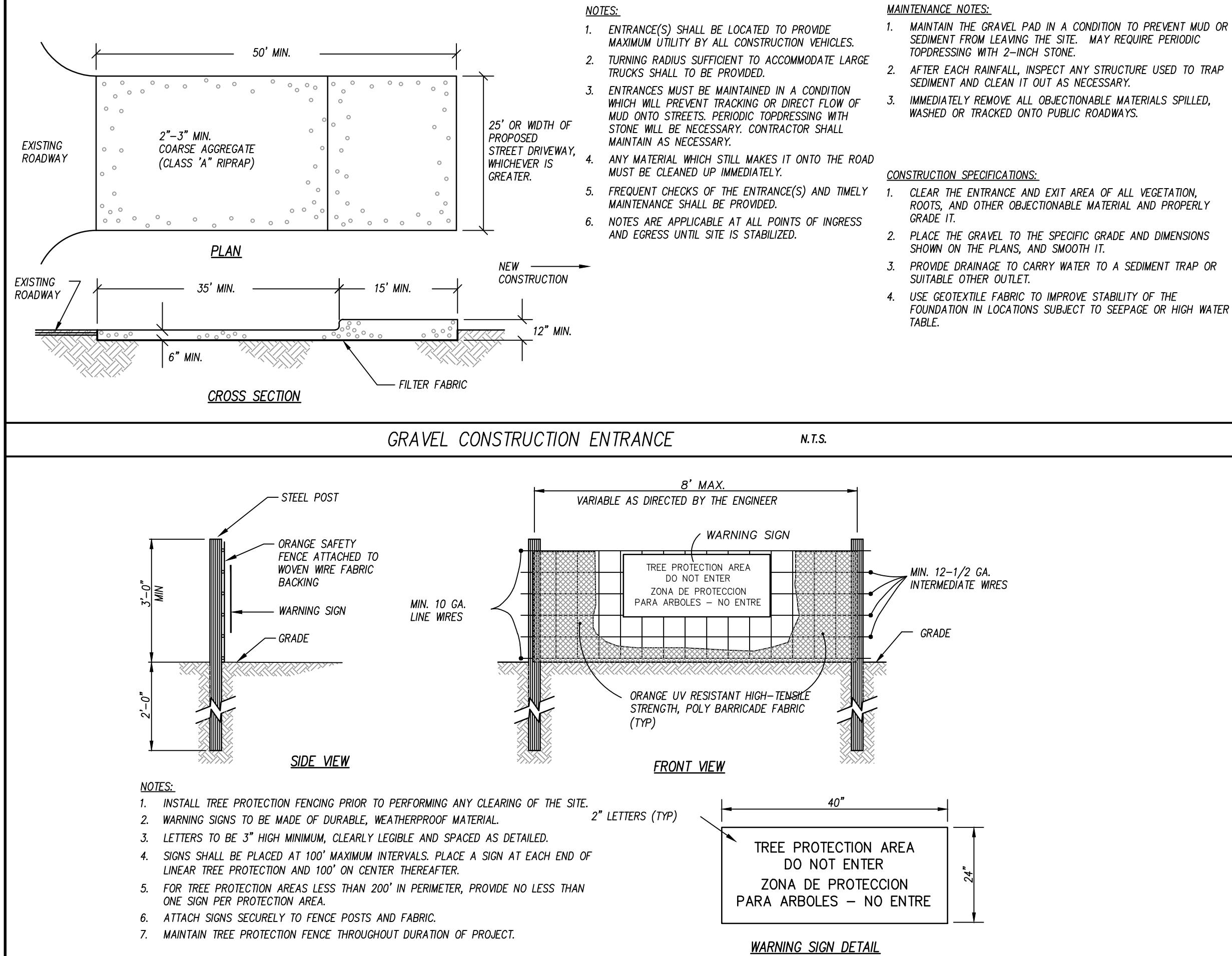
- Anticipated bypasses and unanticipated bypasses.

- 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 period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent 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.



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

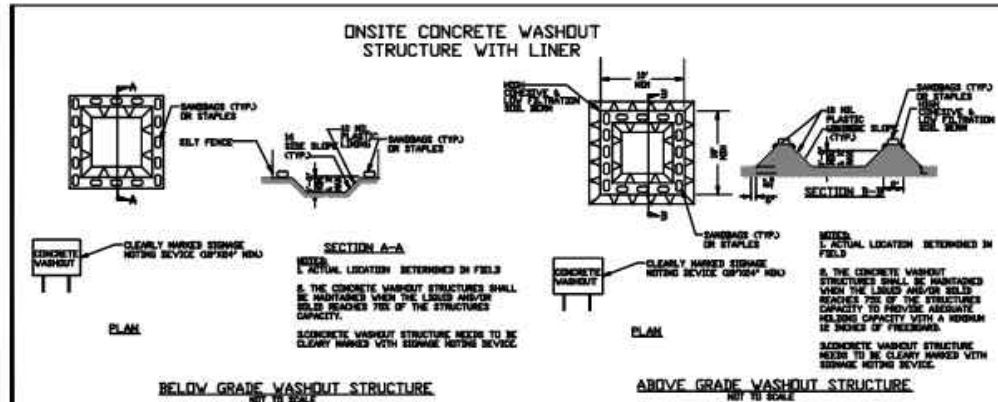
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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.



HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

adwarchitects
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architecture planning interiors

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LA: C-106, PE: C-1595



**ZEBULON
PUBLIC SAFETY
STATION**

201 W. JUDD STREET
ZEBULON, NC 27597

95% CONSTRUCTION DOCUMENTS

**EROSION CONTROL
DETAILS**

DATE 04-07-2025

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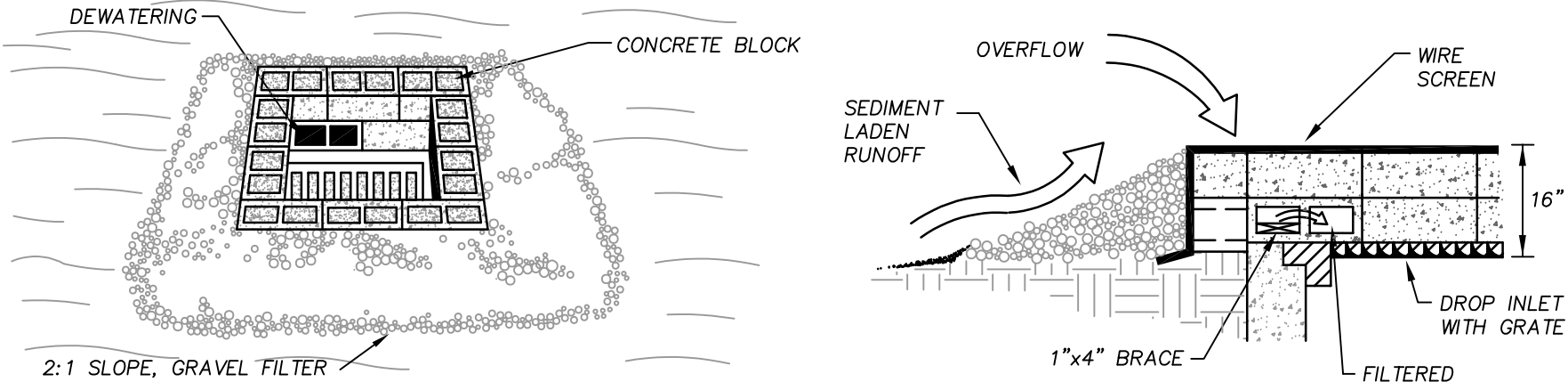
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MAINTENANCE NOTES:

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

NOTES:

1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BLOCKS SHALL BE 12".
2. WIRE MESH OR HARDWARE CLOTH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS, TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS.
3. #57 WASHED STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
4. MAINTAIN DEVICE AFTER EACH RAIN. REPLACE #57 WASHED STONE IF IT CLOGS W/ SEDIMENT.
5. PLACE 1"x4" BOARDS THROUGH THE HOLES OF CORNER BLOCKS.

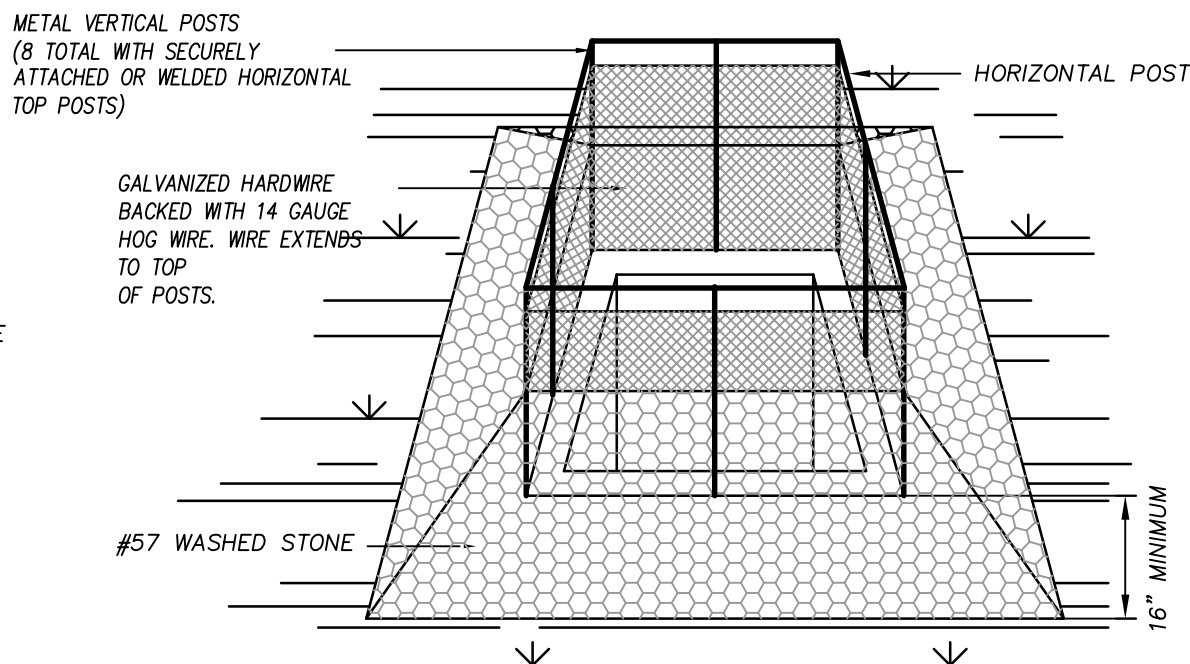


CATCH BASIN AND YARD INLET PROTECTION

N.T.S.

NOTE:

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



TEMPORARY COMPOST SOCK CONCRETE WASHOUT

N.T.S.

NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. COMPOST SOCK CONCRETE WASHOUT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
4. CONCRETE WASHOUT MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY.
5. CONCRETE WASHOUT MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
6. 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACES AT A MAXIMUM INTERVAL OF 4 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.

MAINTENANCE NOTES:

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



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

95% CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

DATE 04-07-2025

CLH PROJECT NO 22-154

REVISIONS

NO DATE DESCRIPTION:

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PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR
CONSTRUCTION

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 CONCOIDE 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 CONCOIDE 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

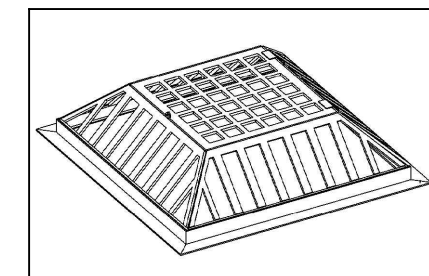
CONTRACTOR SHALL FURNISH AND INSTALL A 6-IN THICK LAYER OF COMPACTED CLAY BENEATH THE WETLAND TOPSOIL IF DEEMED NECESSARY BY THE OWNER.

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.

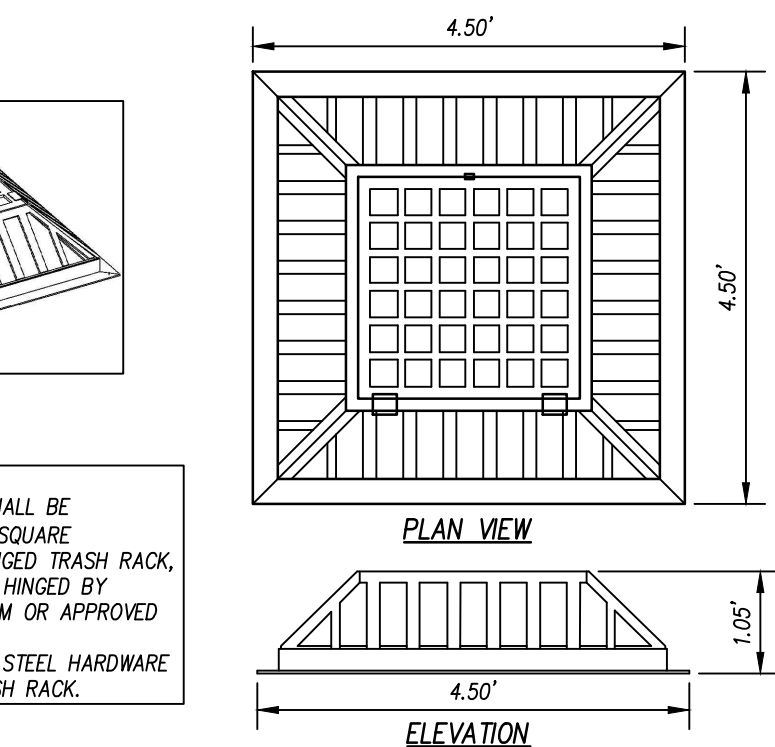
TOPSOIL

1. 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

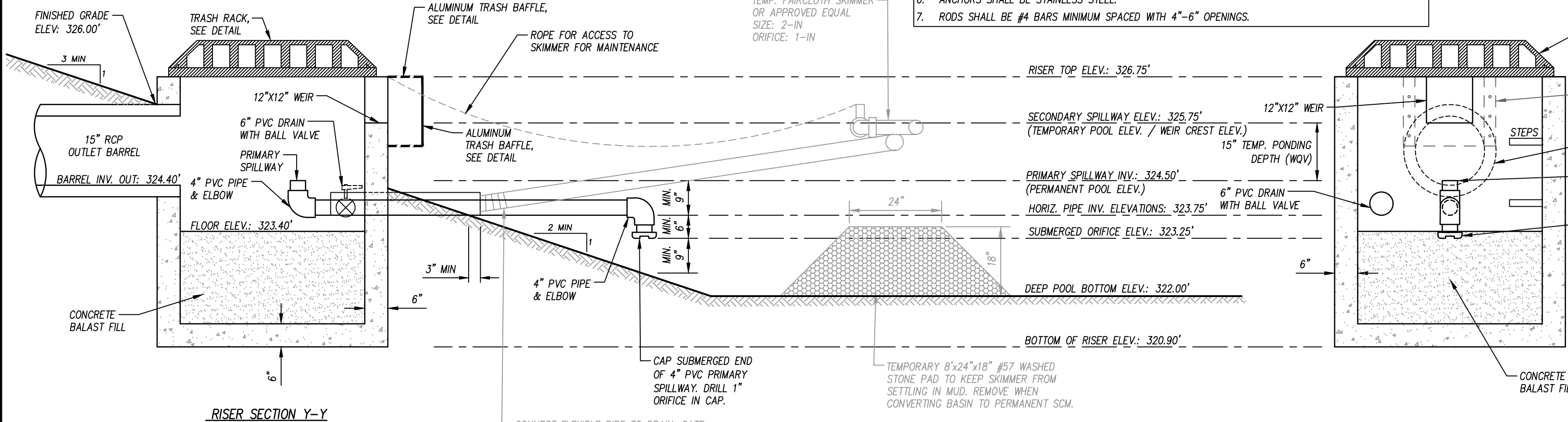
- NOTES:
- TRASH RACK SHALL BE ALUMINUM 48" SQUARE TOP-MOUNT HINGED TRASH RACK, MODEL L50-48 HINGED BY TRASHRACKS.COM OR APPROVED EQUAL.
 - USE STAINLESS STEEL HARDWARE TO MOUNT TRASH RACK.



TRASH RACK DETAIL

SCALE: N.T.S.

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

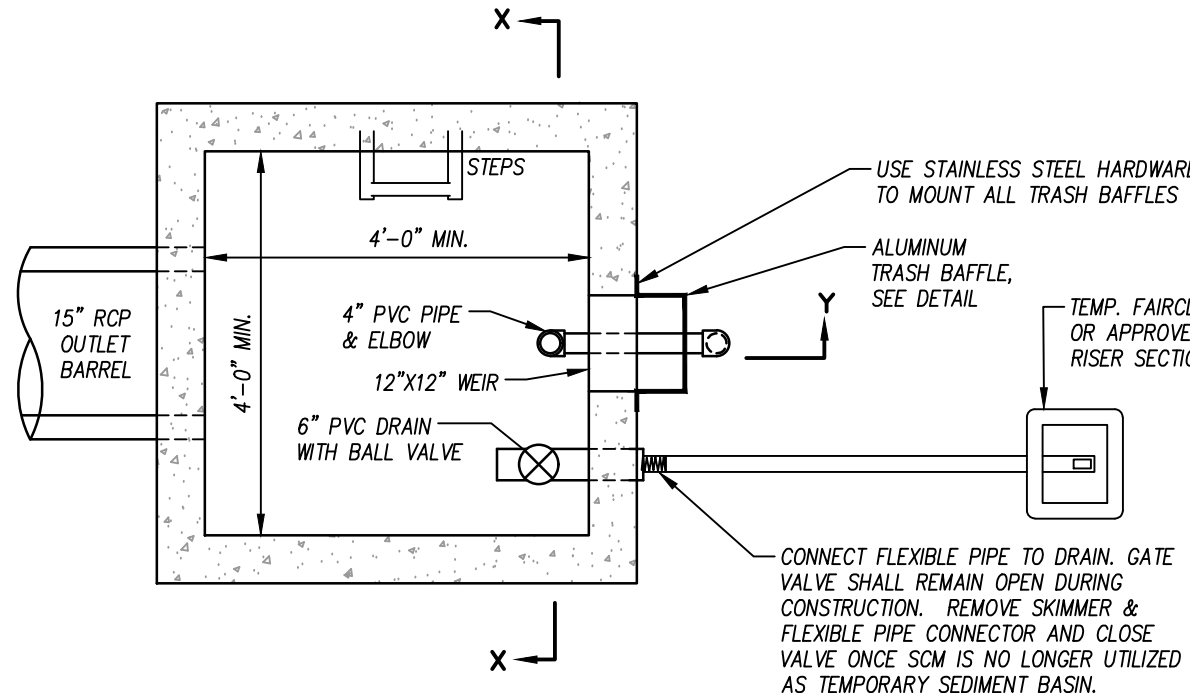


RISER SECTION Y-Y

SCALE: N.T.S.

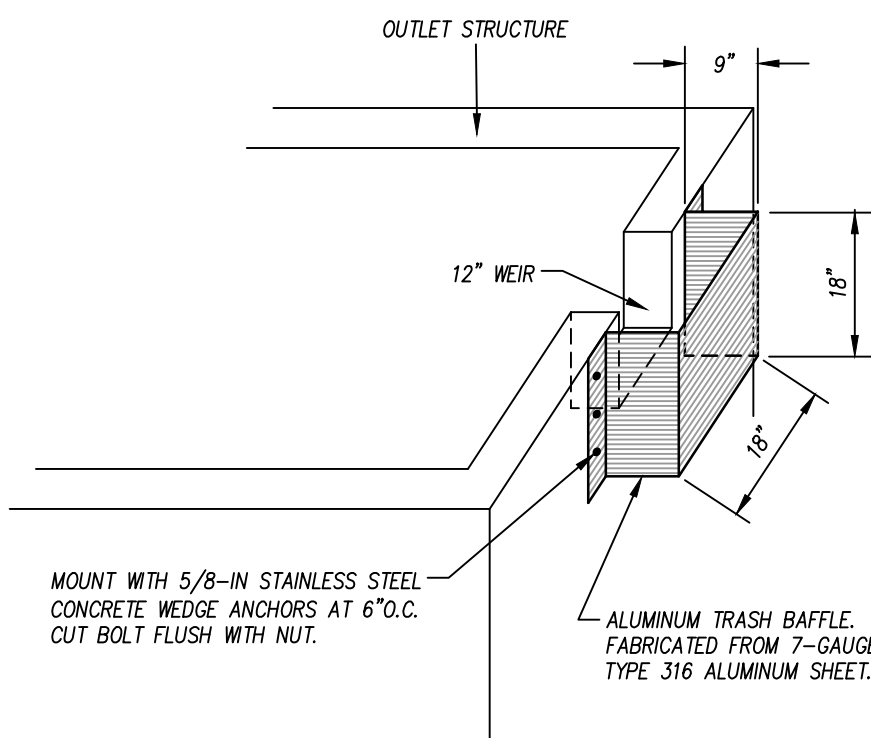
RISER SECTION X-X

SCALE: N.T.S.



RISER PLAN

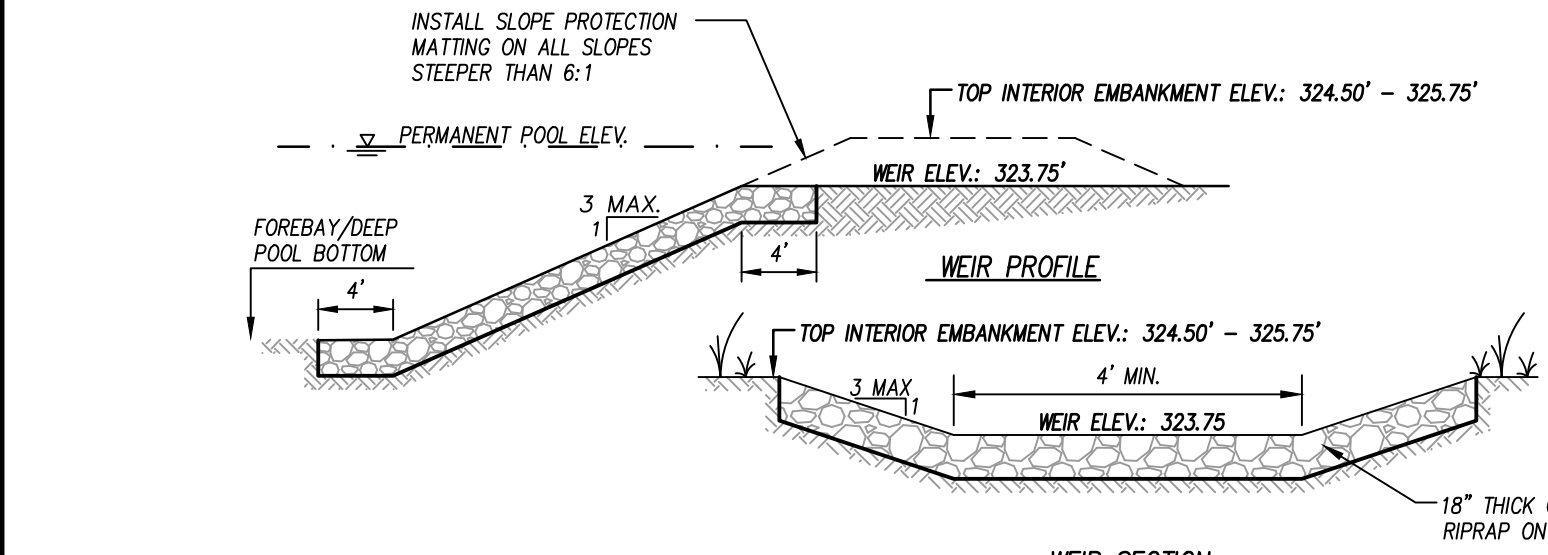
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ALUMINUM TRASH BAFFLE

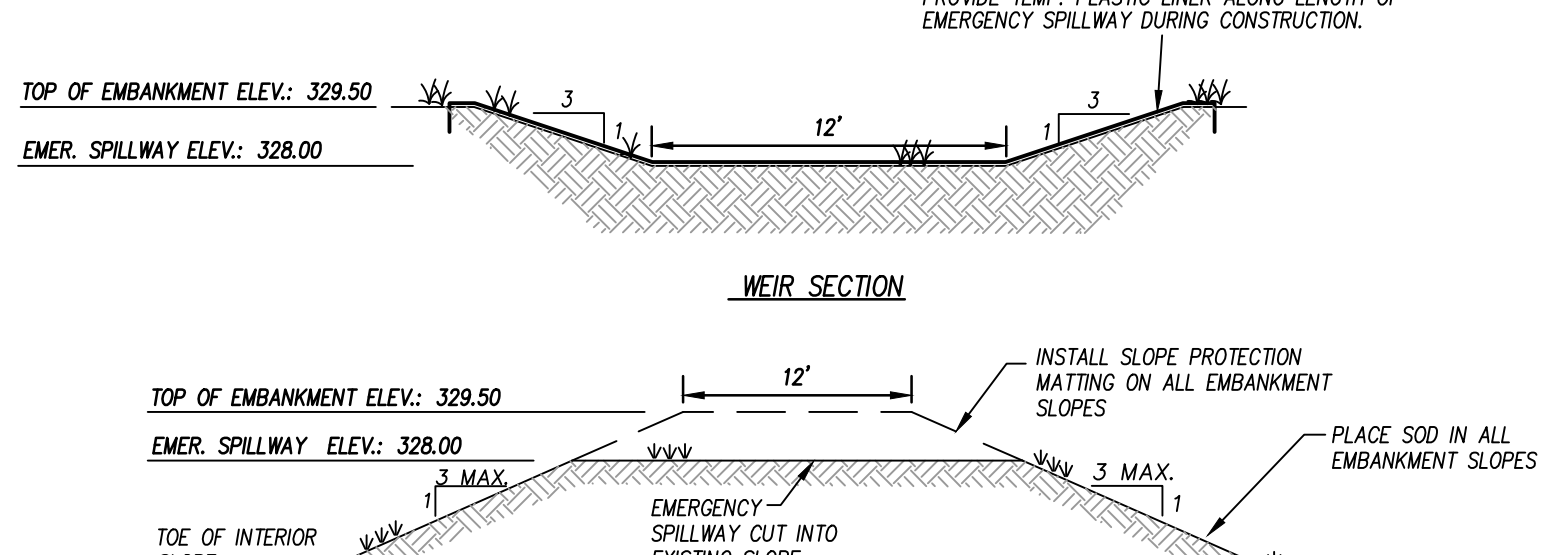
DETAIL

SCALE: N.T.S.



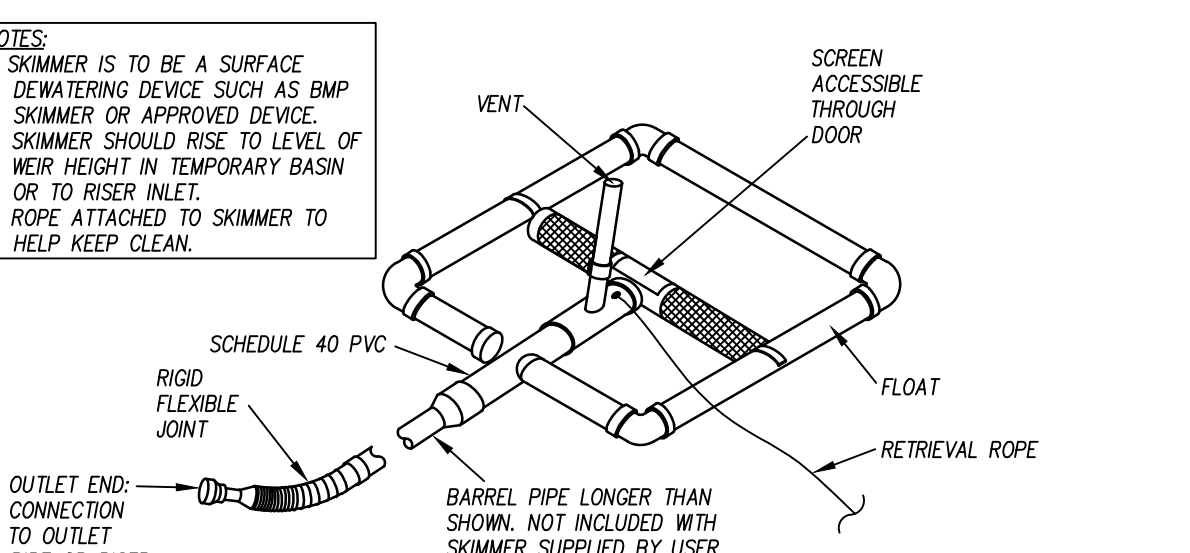
ARMORED WEIR DETAIL

SCALE: N.T.S.



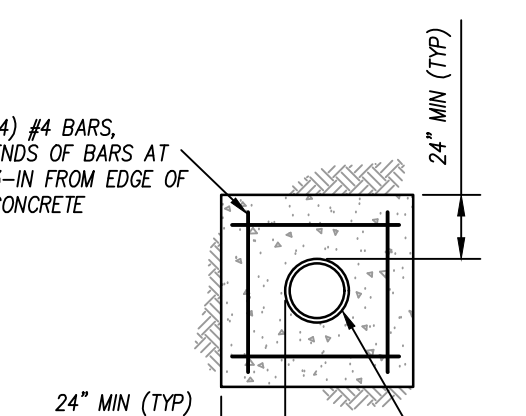
EMERGENCY SPILLWAY DETAIL

SCALE: N.T.S.



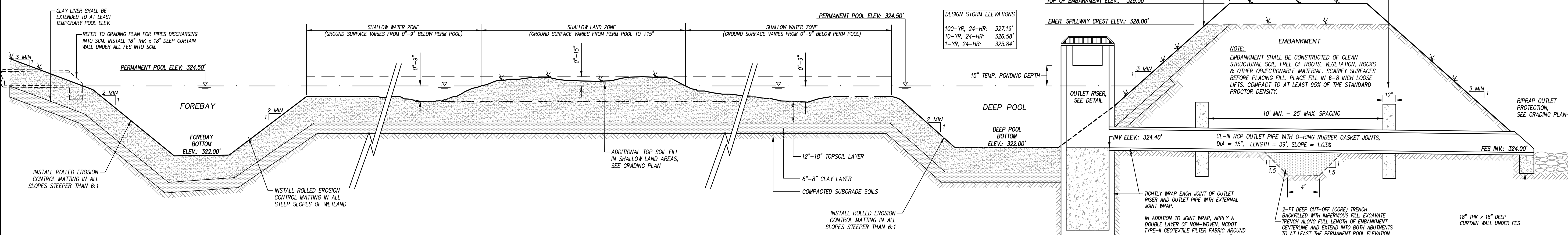
TEMPORARY SKIMMER

SCALE: N.T.S.



ANTI-SEEP COLLAR DETAIL

SCALE: N.T.S.



WETLAND SECTION

SCALE: N.T.S.

ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

95% CONSTRUCTION DOCUMENTS

WETLAND DETAILS

DATE 04-07-2025

CLH PROJECT NO 22-154

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CLAY LINER

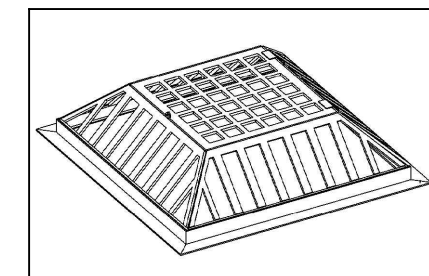
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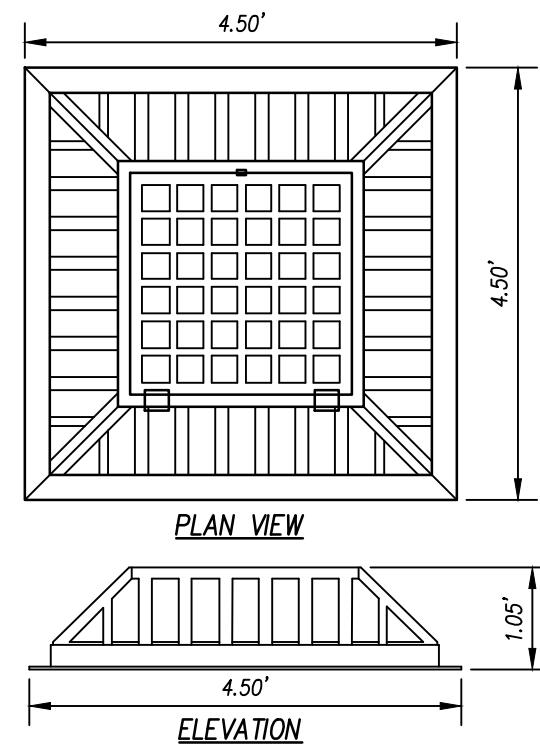
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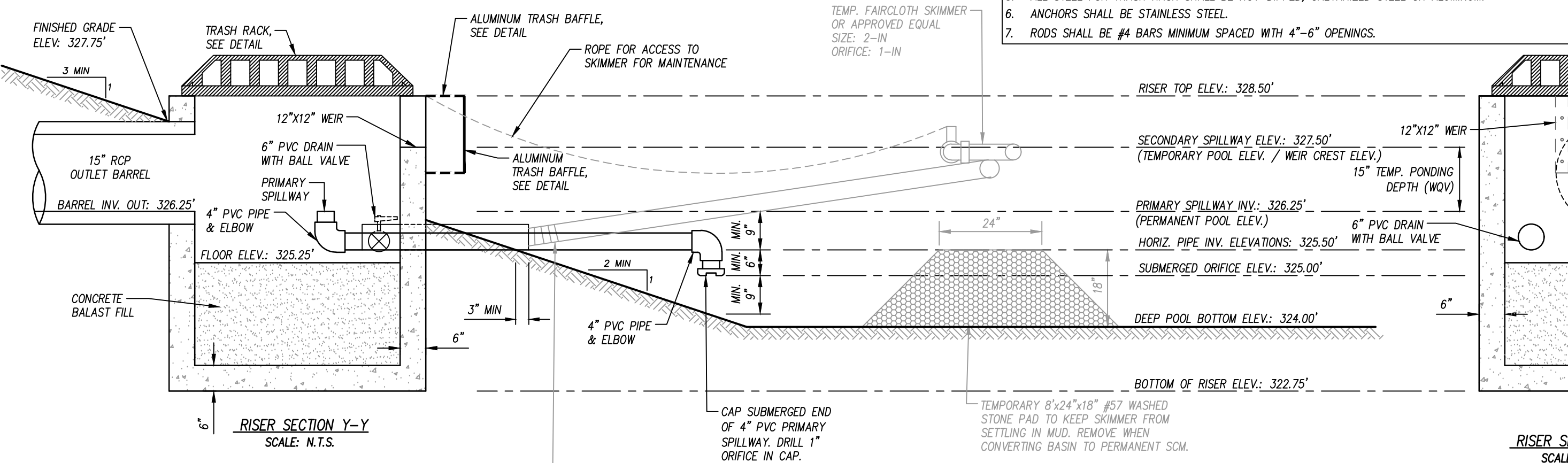
ISOMETRIC

- 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.



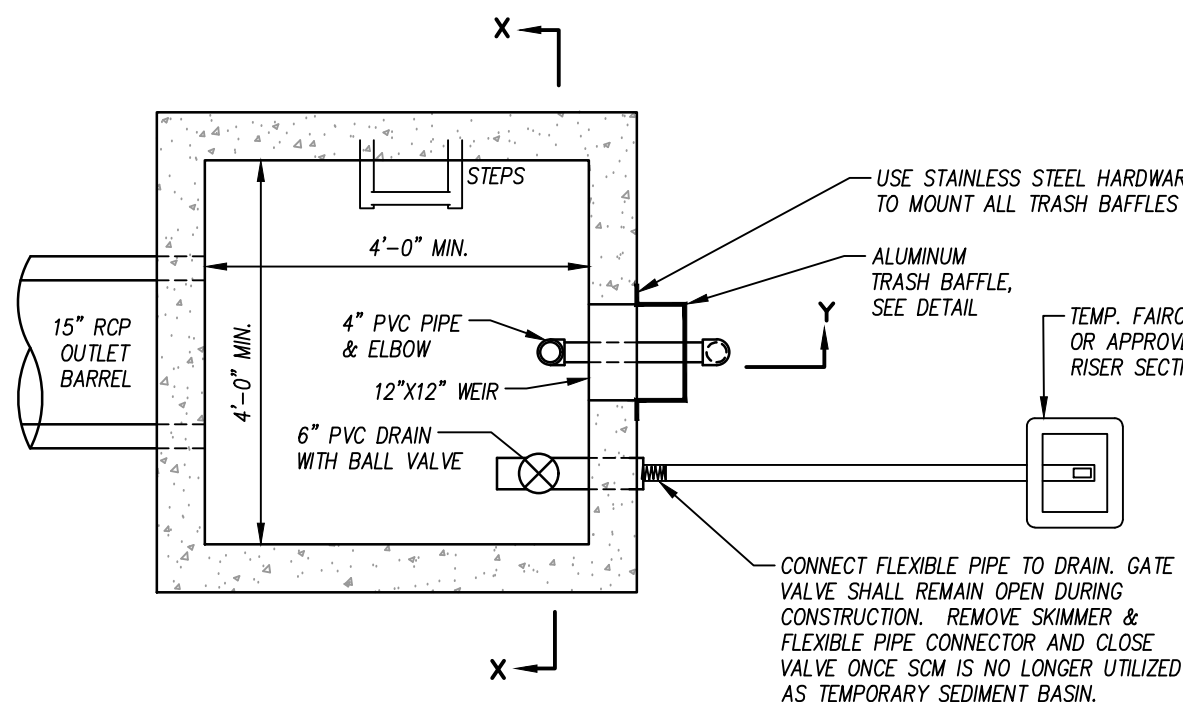
TRASH RACK DETAIL

SCALE: N.T.S.



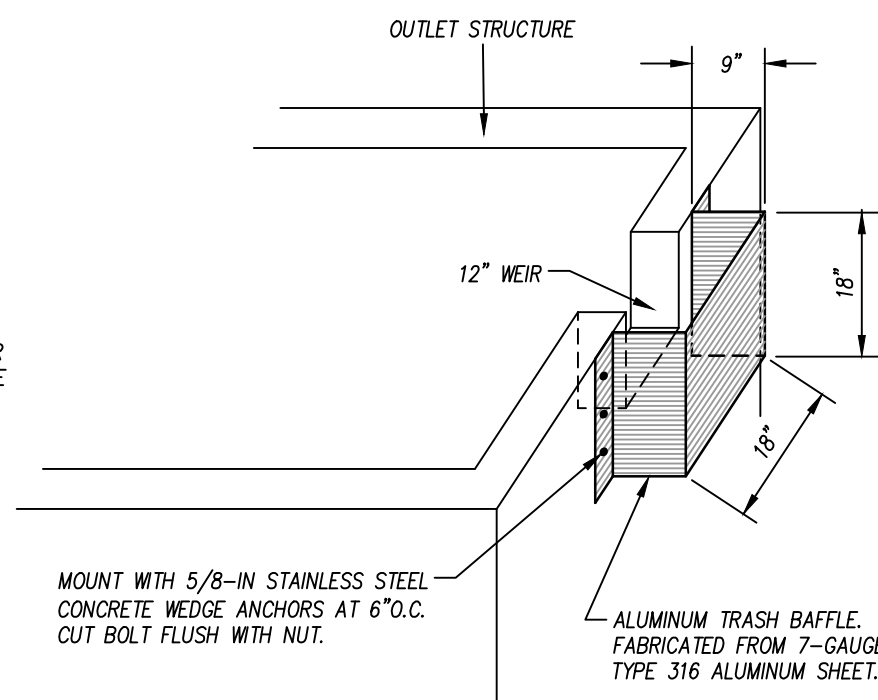
RISER SECTION X-X

SCALE: N.T.S.



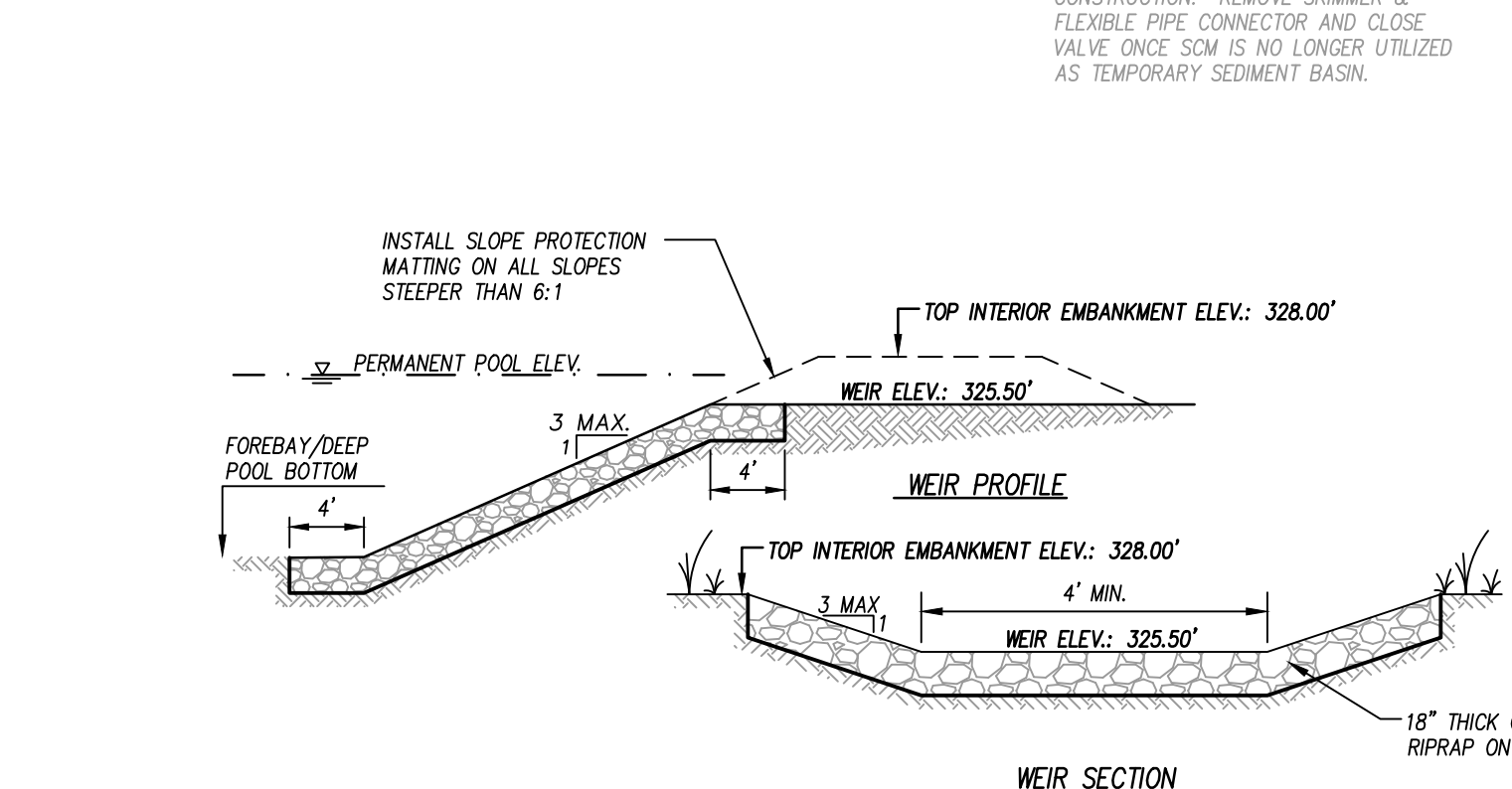
RISER PLAN

SCALE: N.T.S.



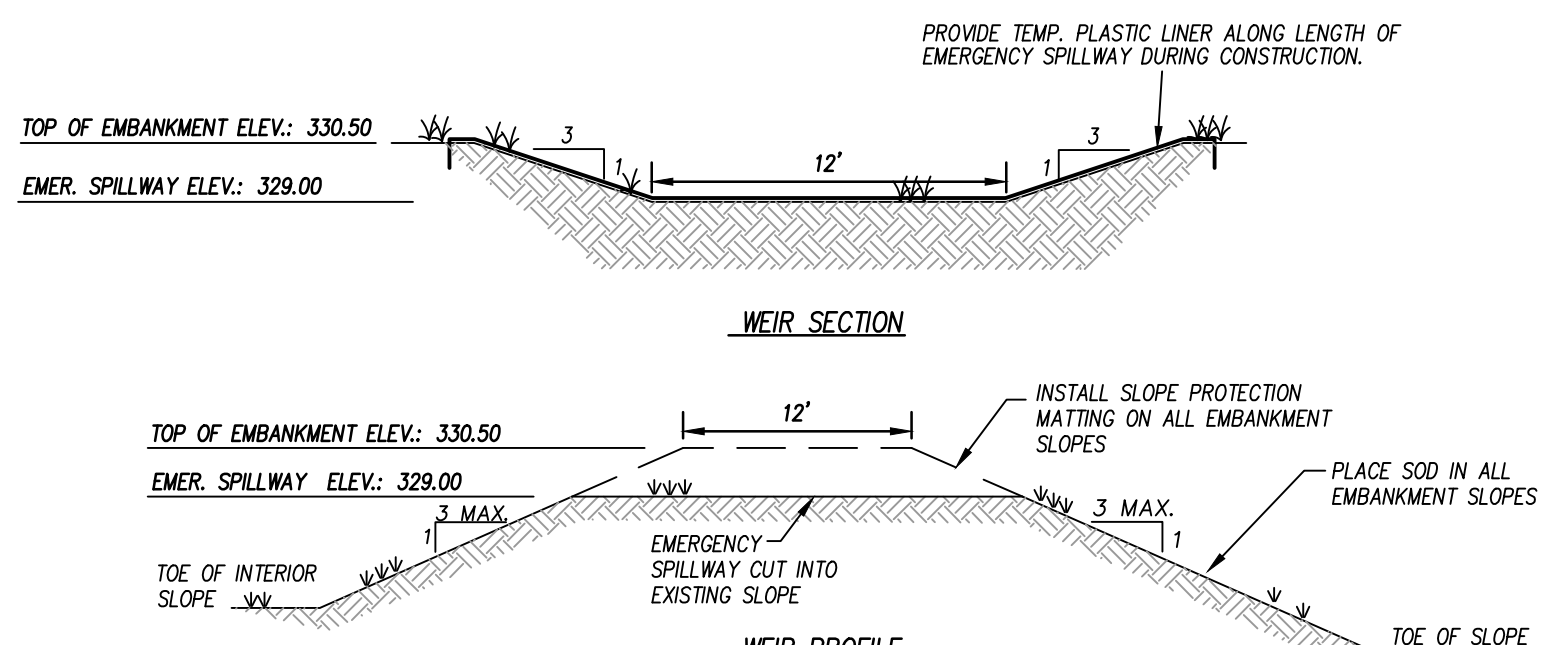
ALUMINUM TRASH BAFFLE

SCALE: N.T.S.



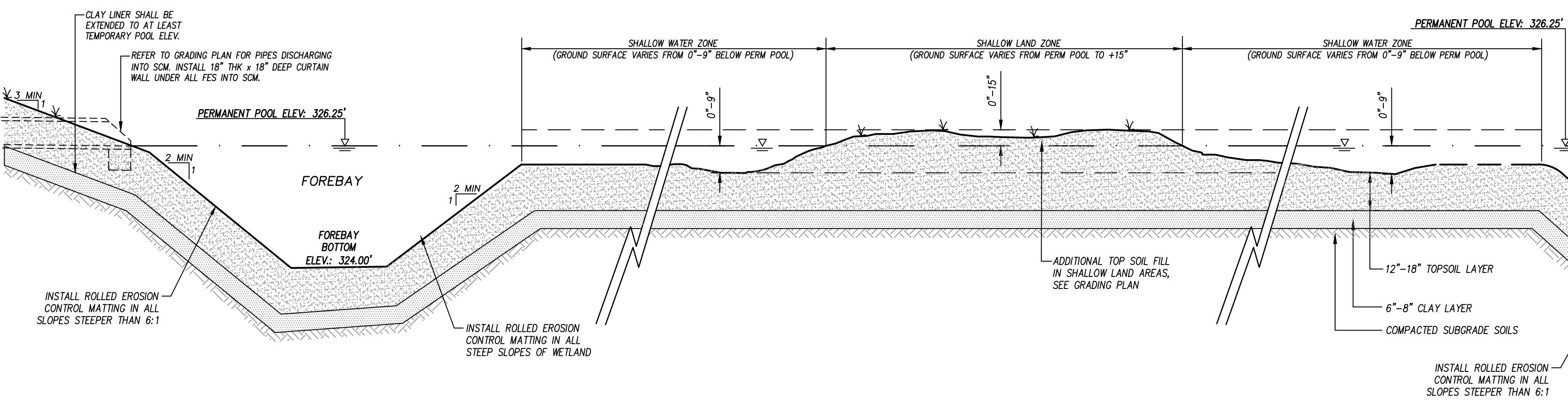
ARMORED WEIR DETAIL

SCALE: N.T.S.



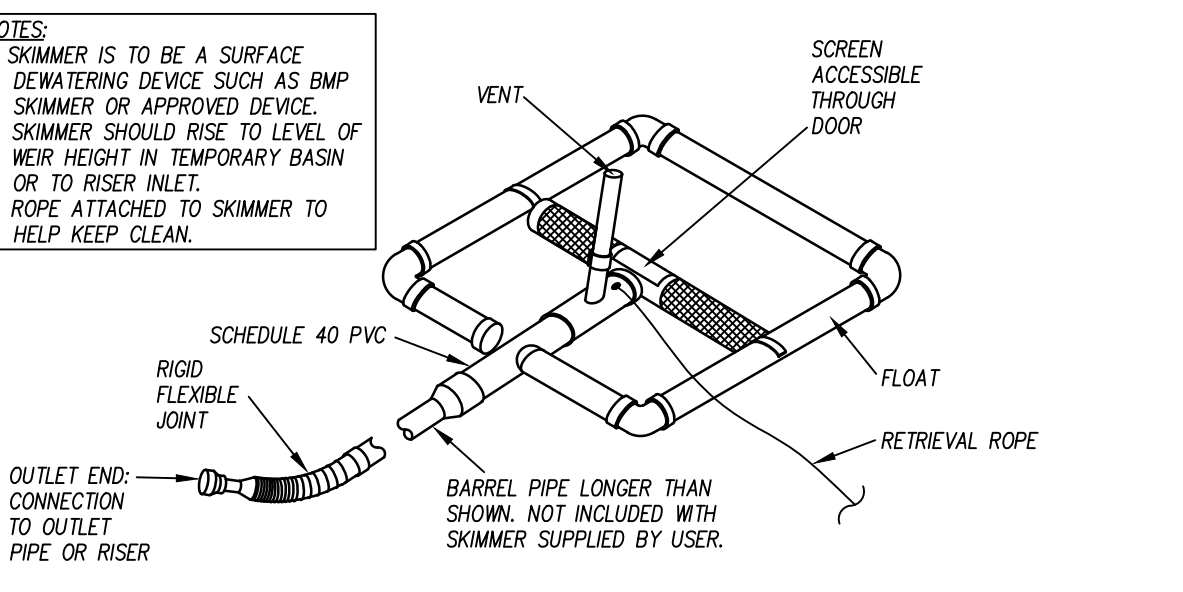
EMERGENCY SPILLWAY DETAIL

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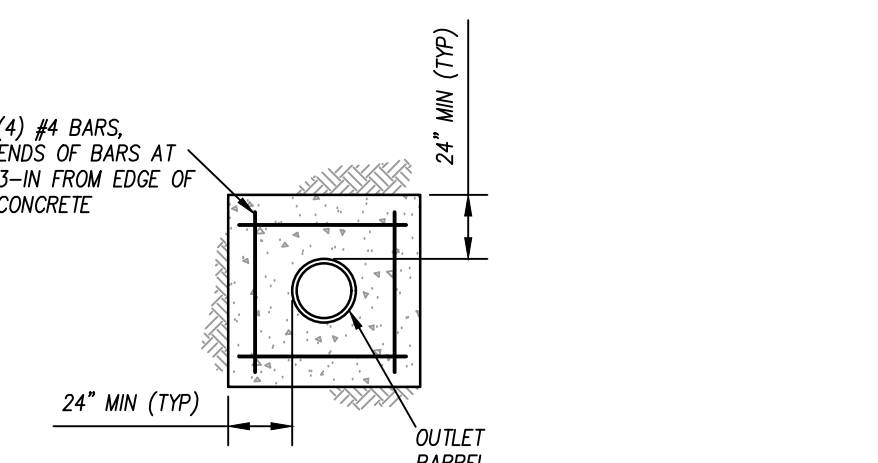
WETLAND SECTION

SCALE: N.T.S.



TEMPORARY SKIMMER

SCALE: N.T.S.

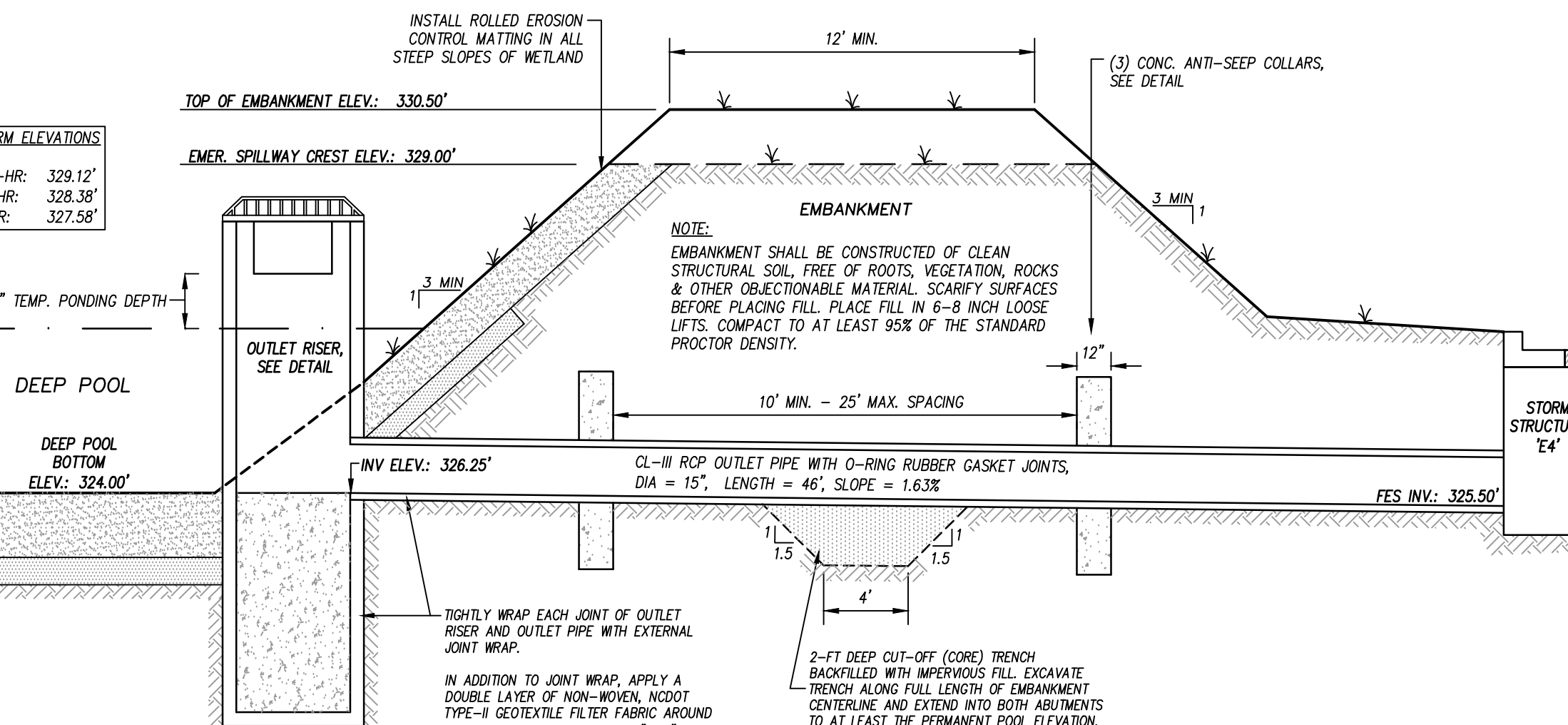


ANTI-SEEP COLLAR DETAIL

SCALE: N.T.S.

DESIGN STORM ELEVATIONS

100-YR, 24-HR:	329.12'
10-YR, 24-HR:	328.38'
1-YR, 24-HR:	327.58'



ZEBULON
PUBLIC SAFETY
STATION

201 W. JUDD STREET
ZEBULON, NC 27597

95% CONSTRUCTION DOCUMENTS

WETLAND DETAILS

DATE 04-07-2025

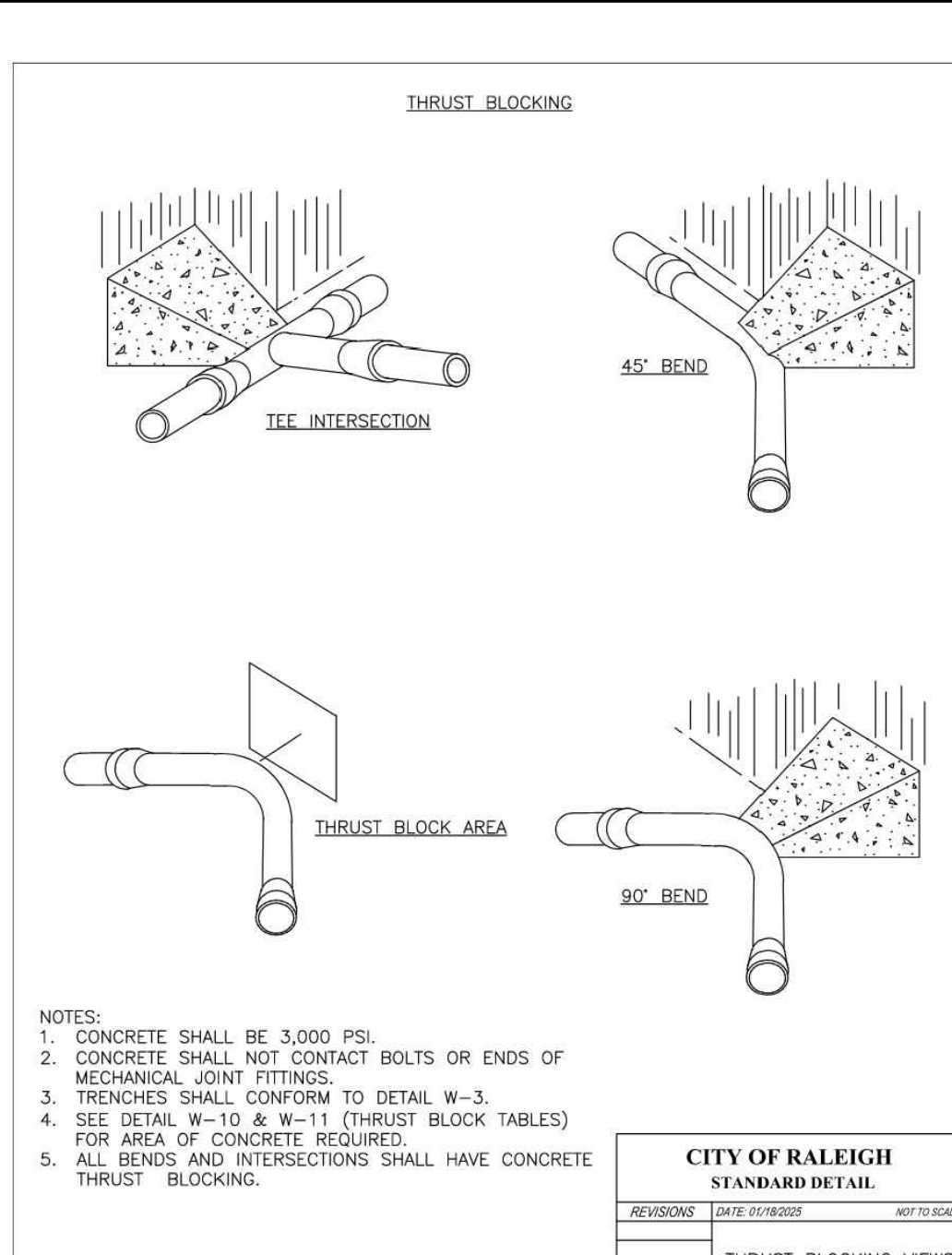
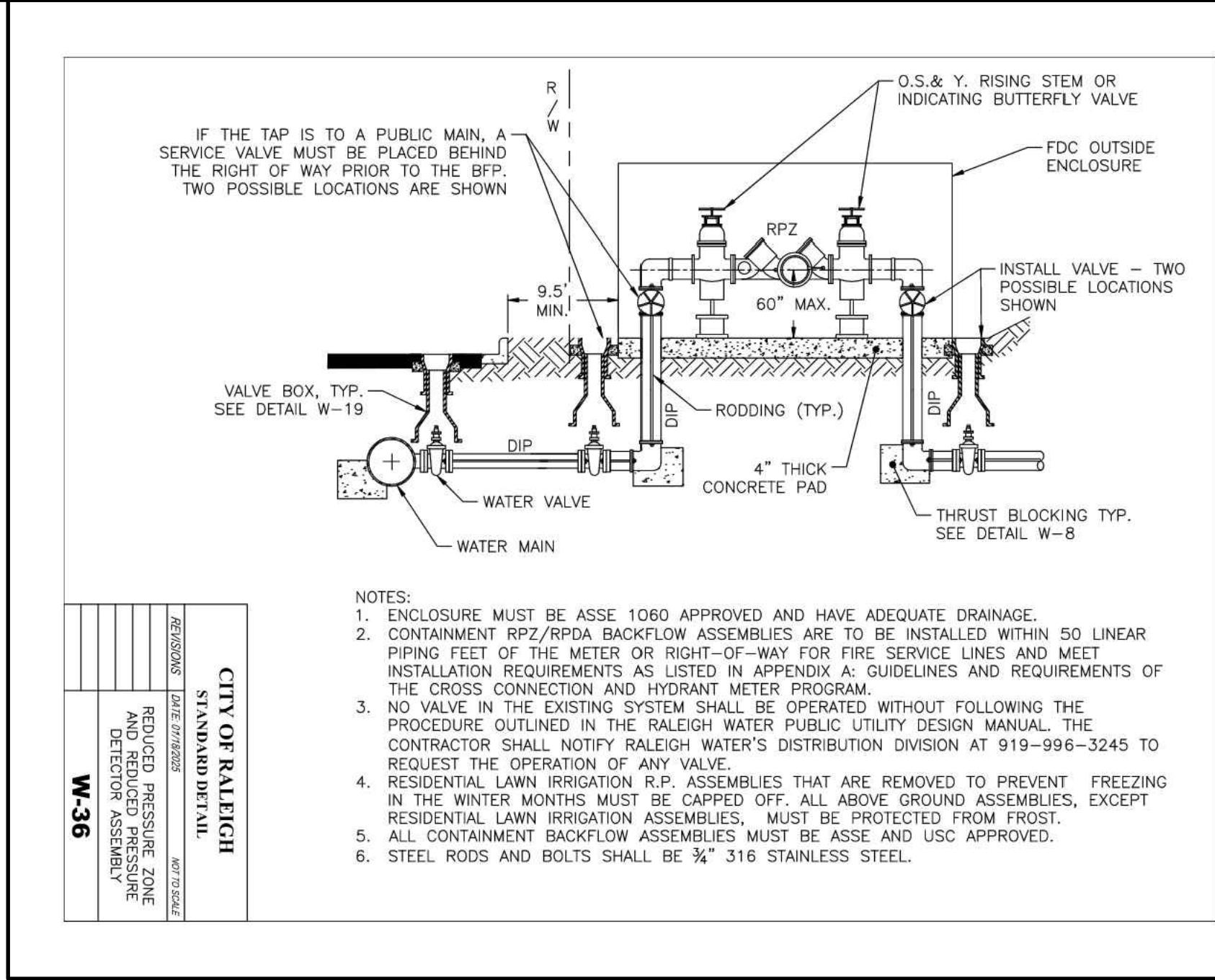
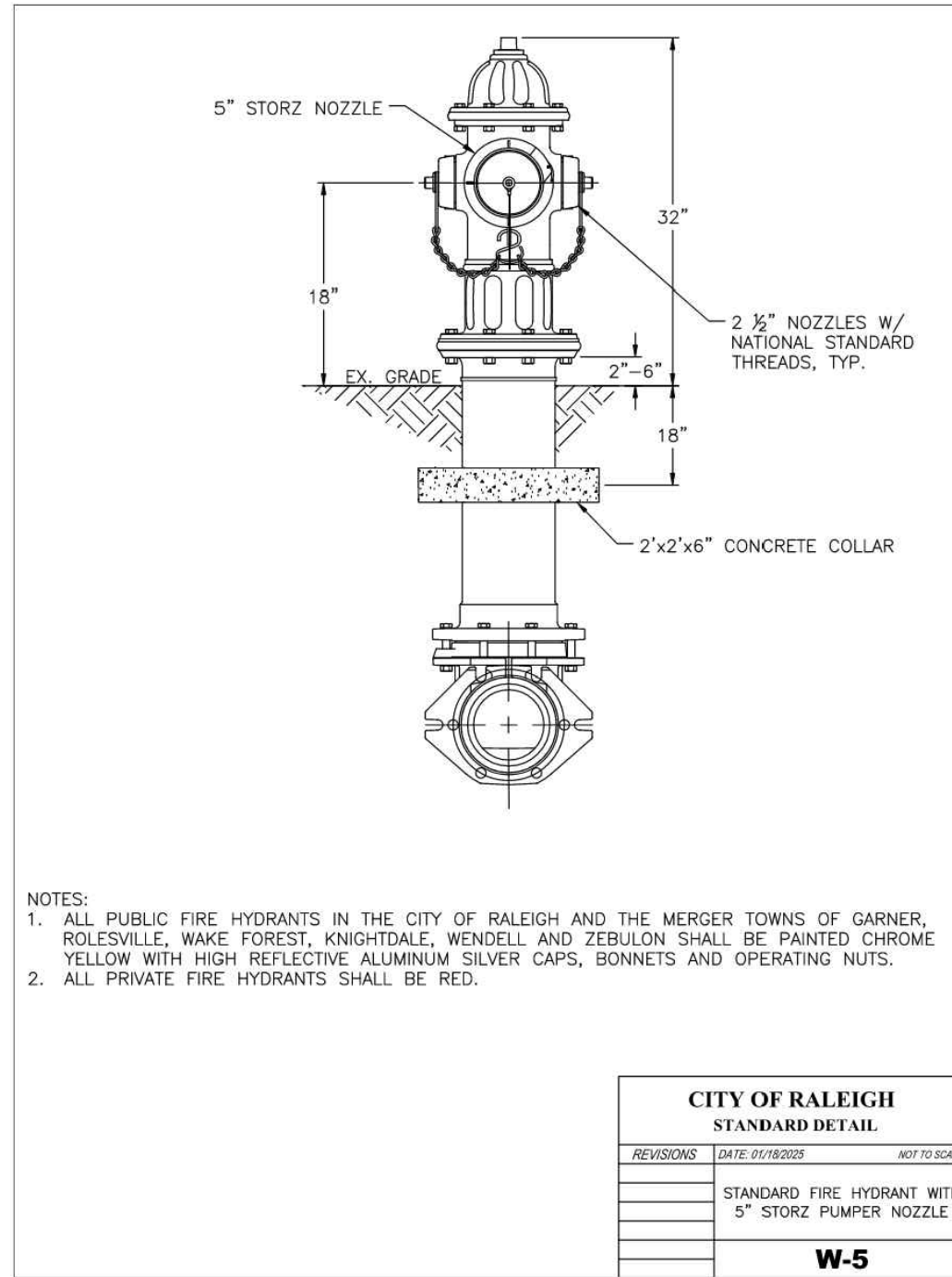
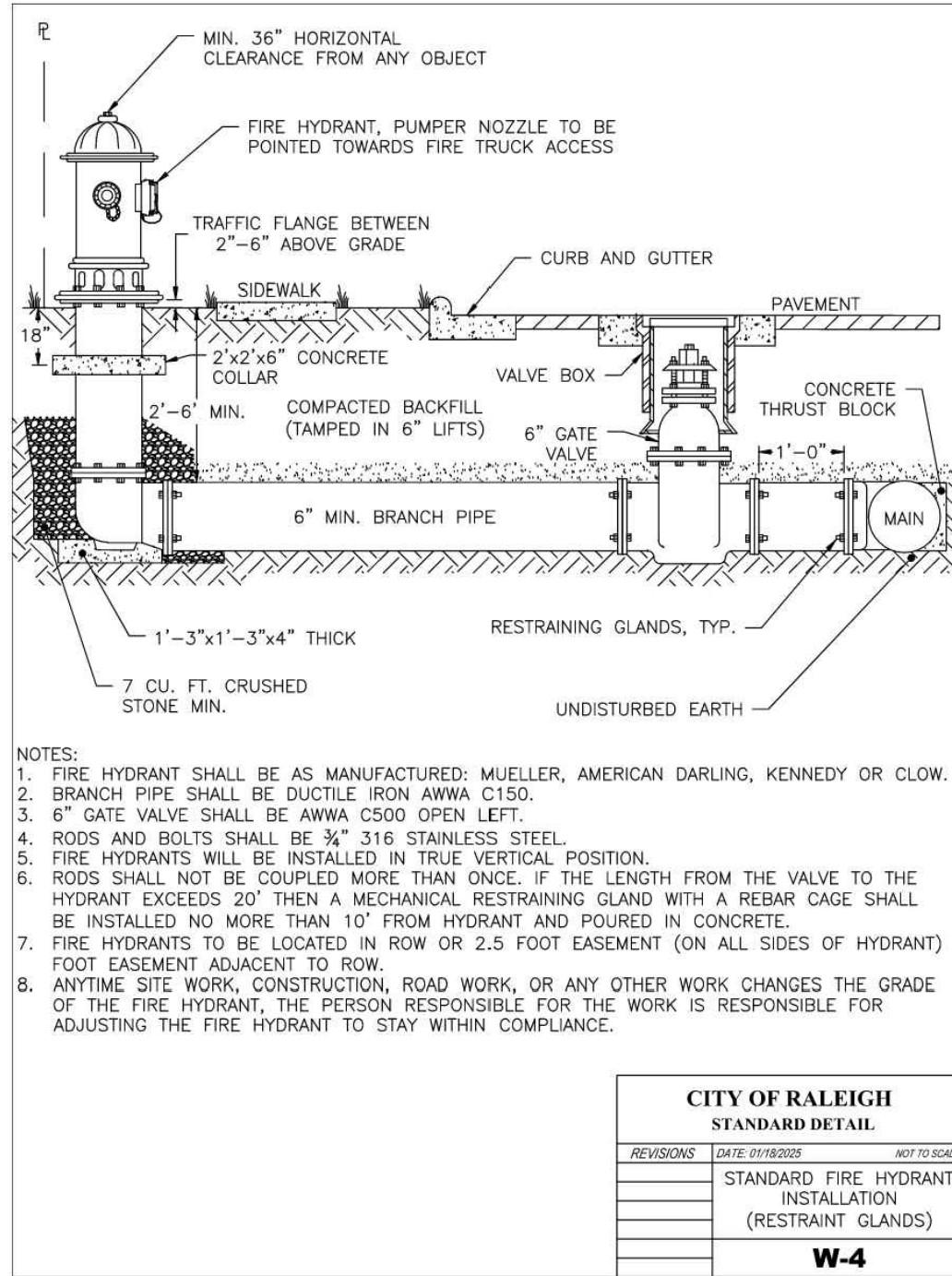
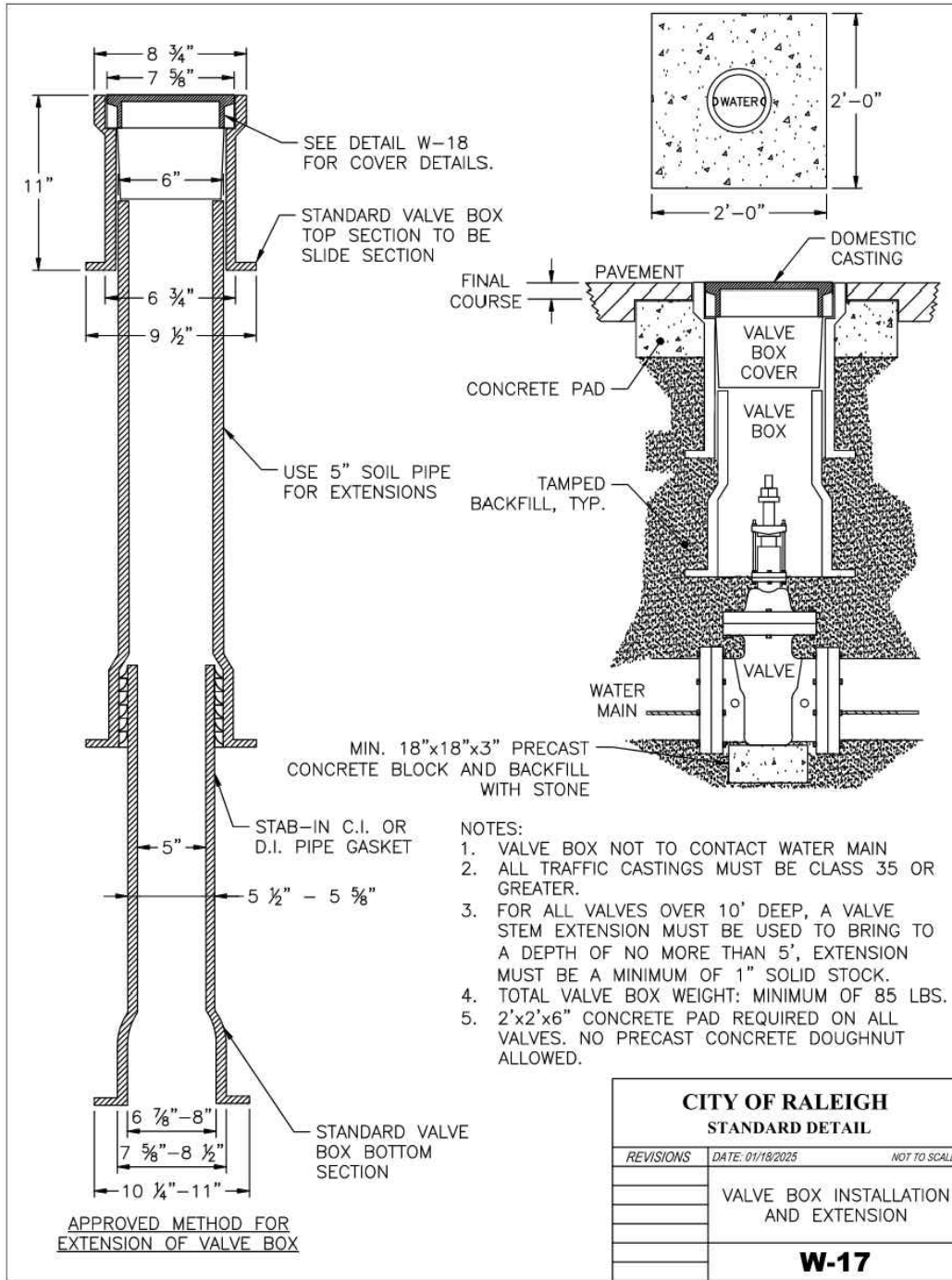
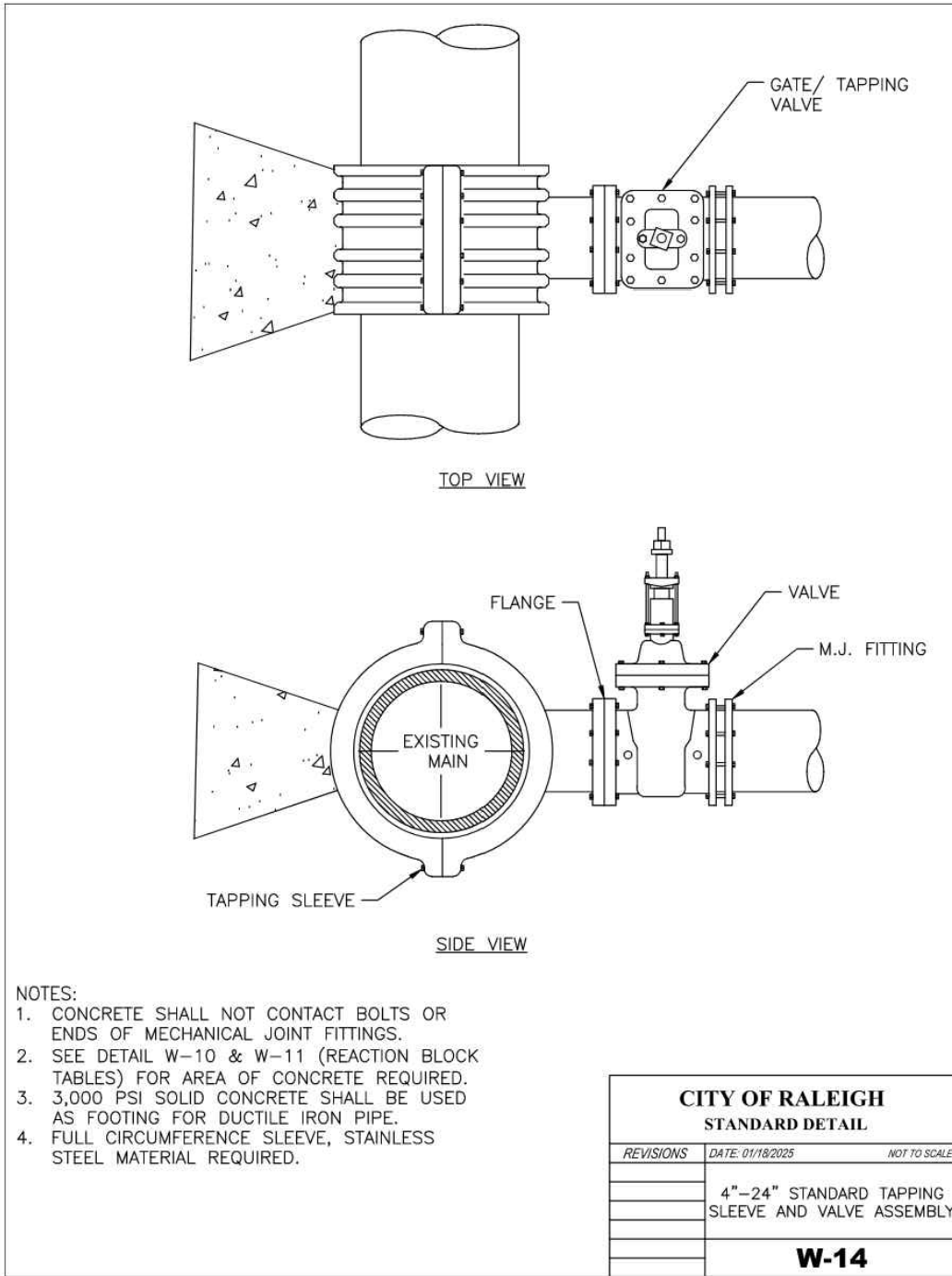
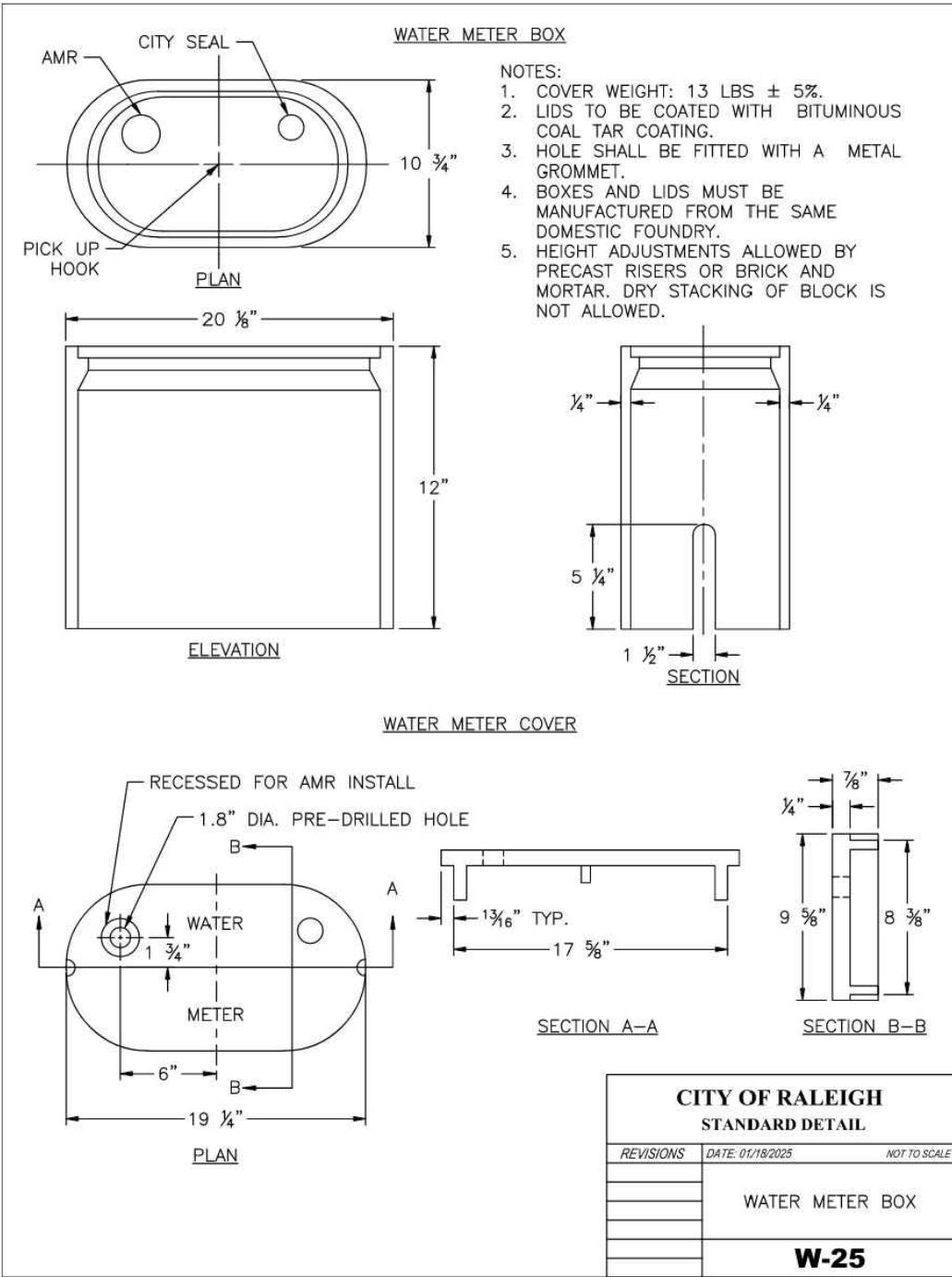
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PRELIMINARY PLANS
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SHEET NUMBER



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/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVELLY COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT²	SAND, CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUIKDRAND (VERY POOR)	ROCK-POOR 10,000 LBS/FT²	ROCK-POOR 10,000 LBS/FT²
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	

NOTES:

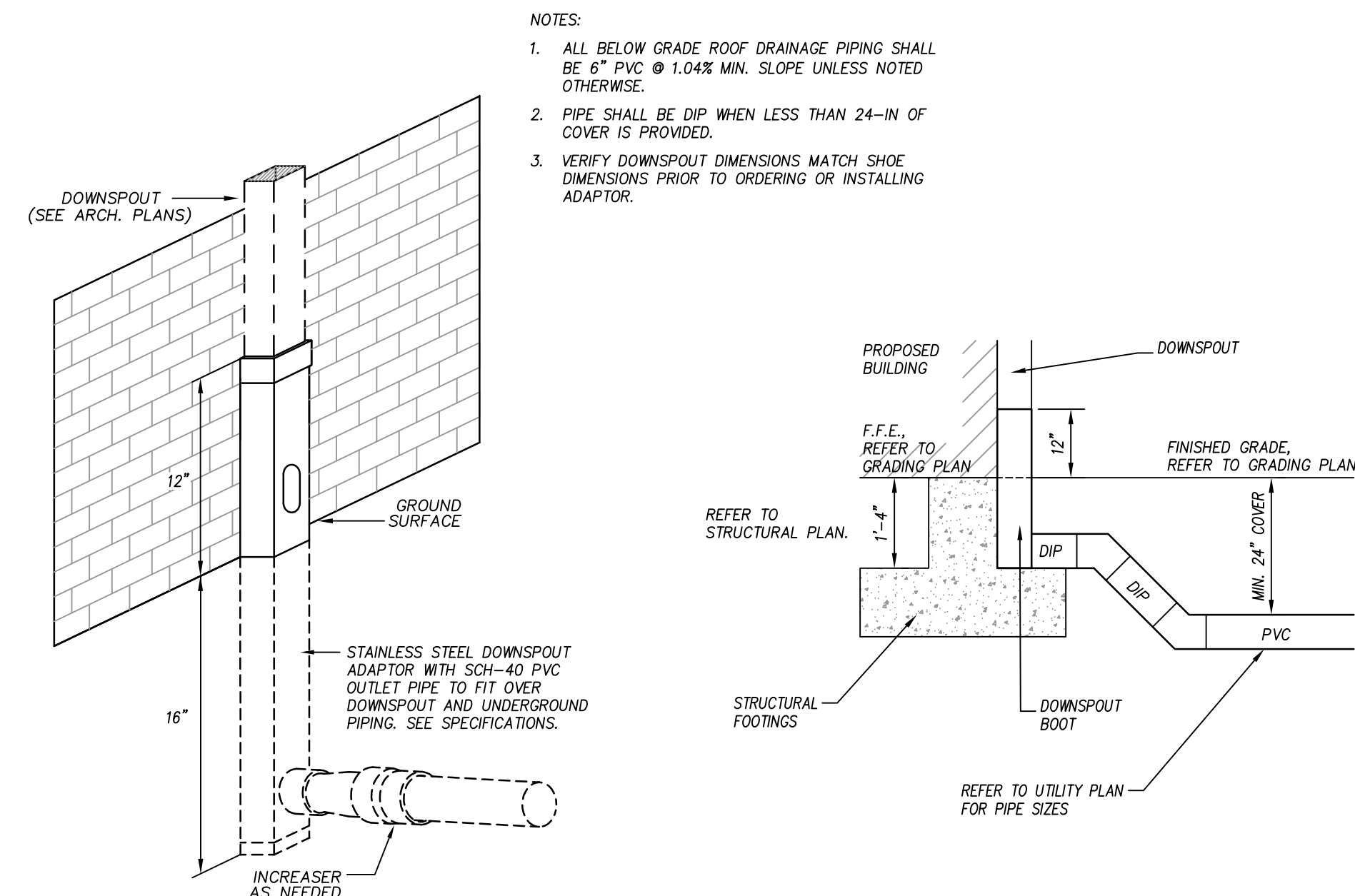
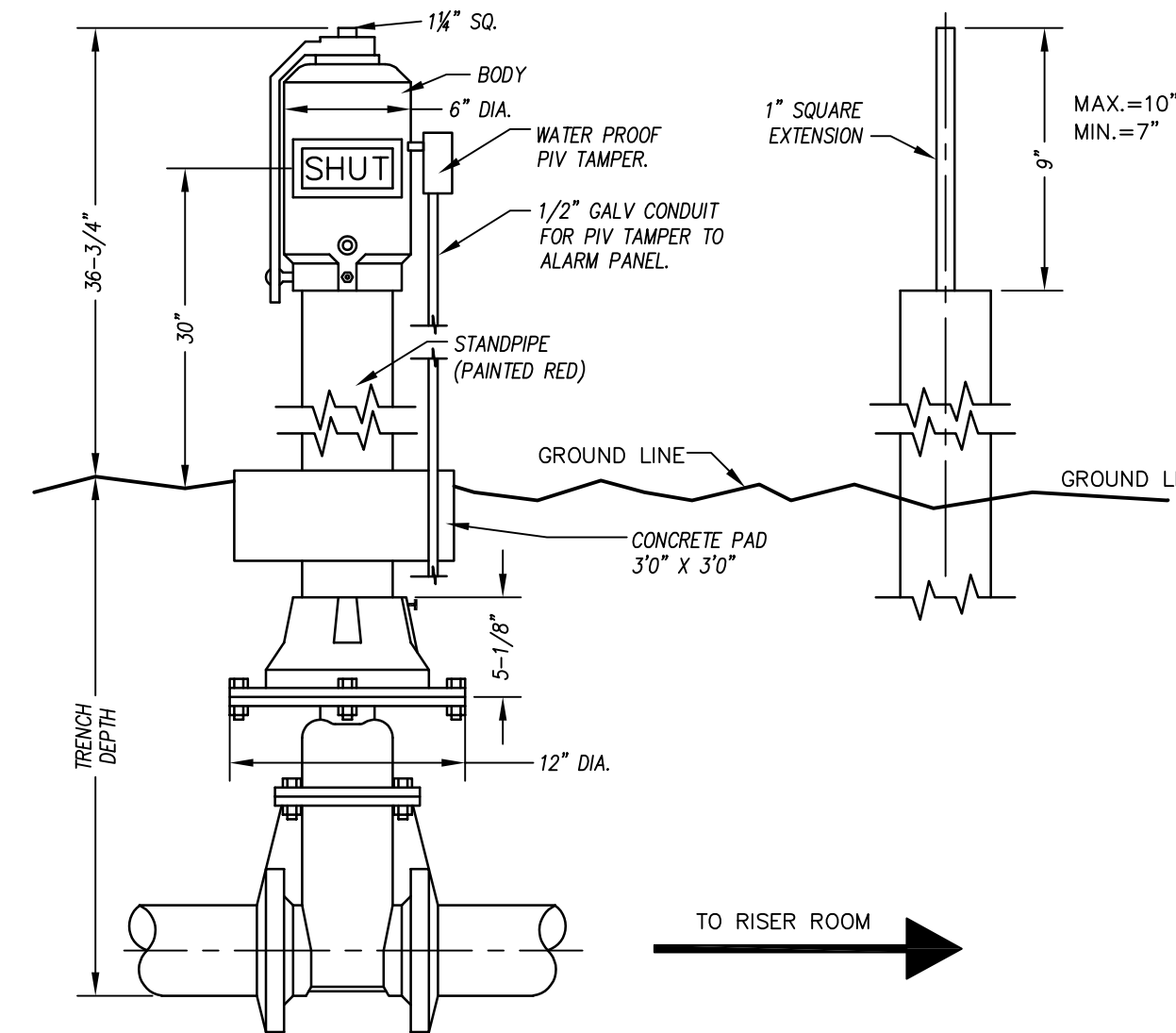
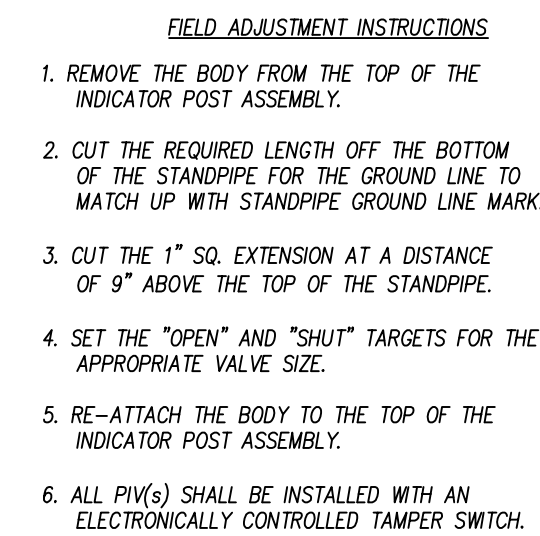
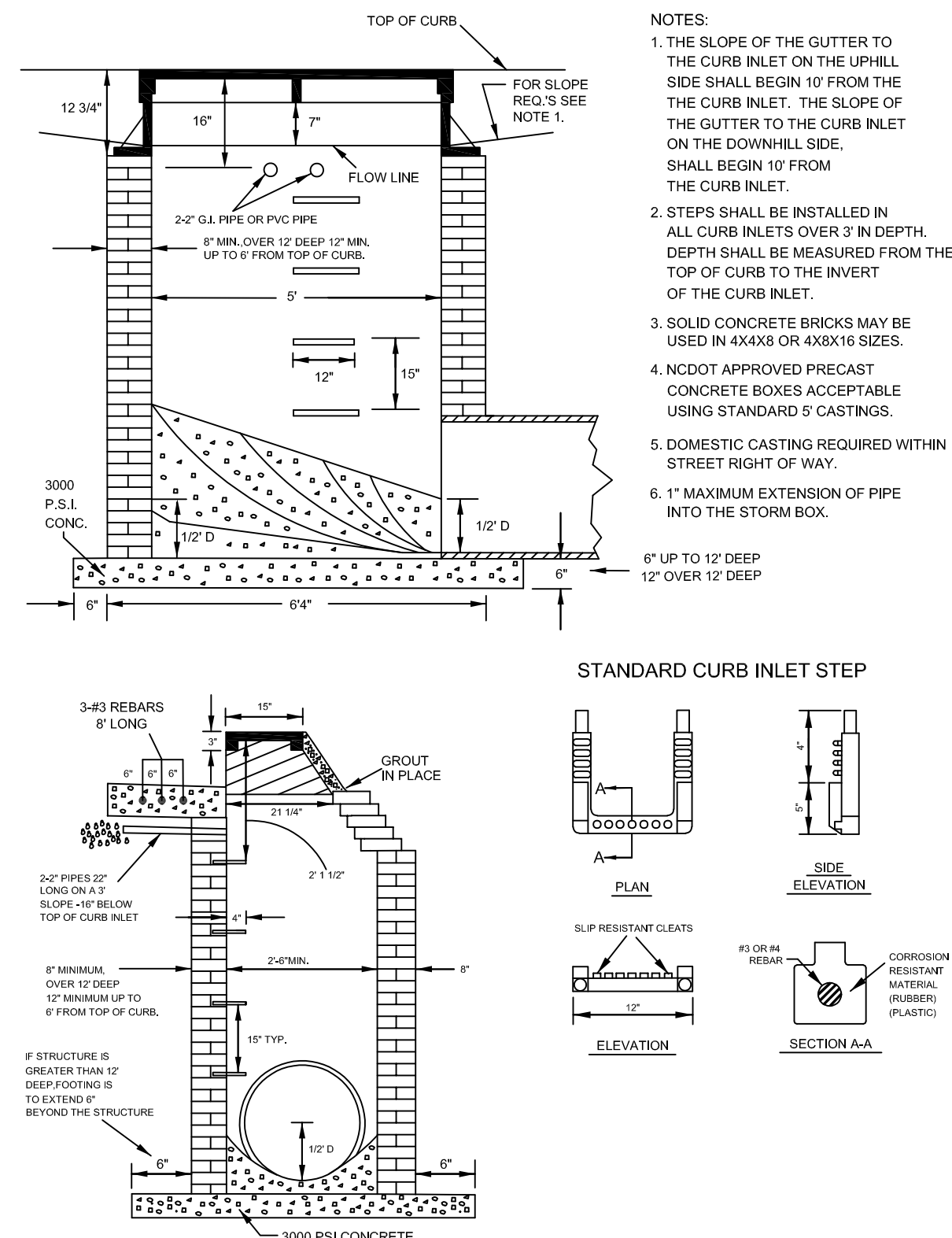
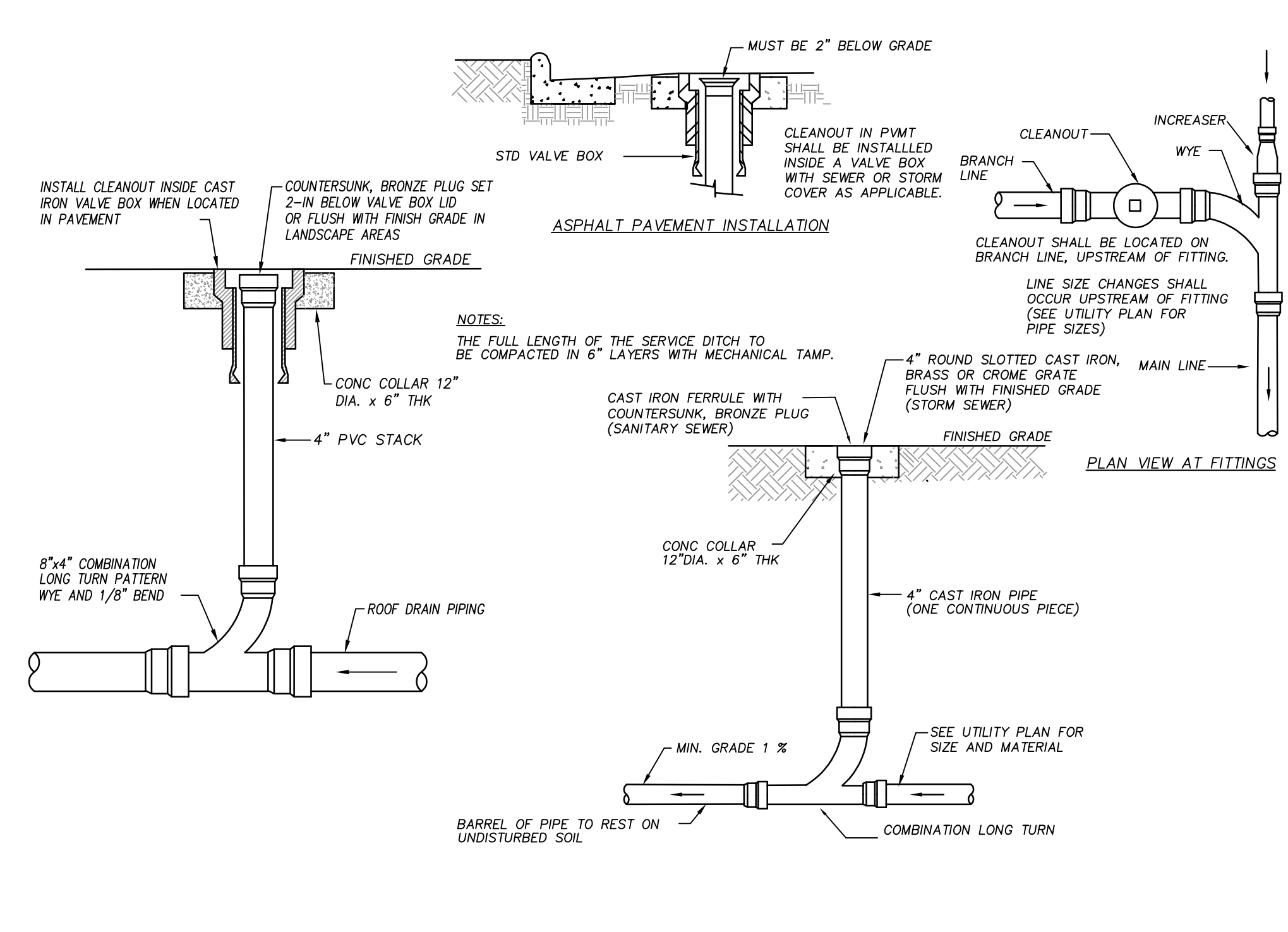
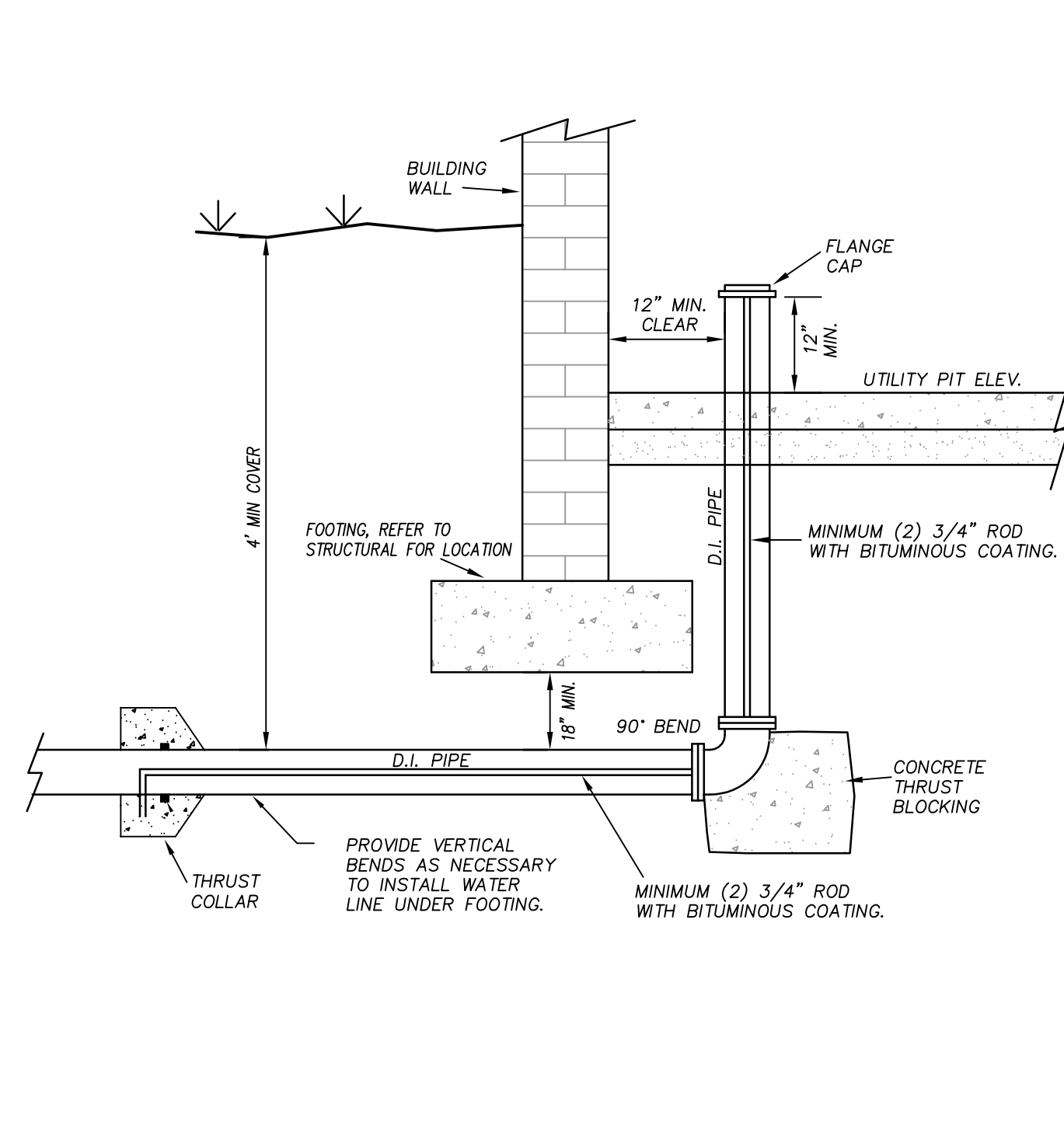
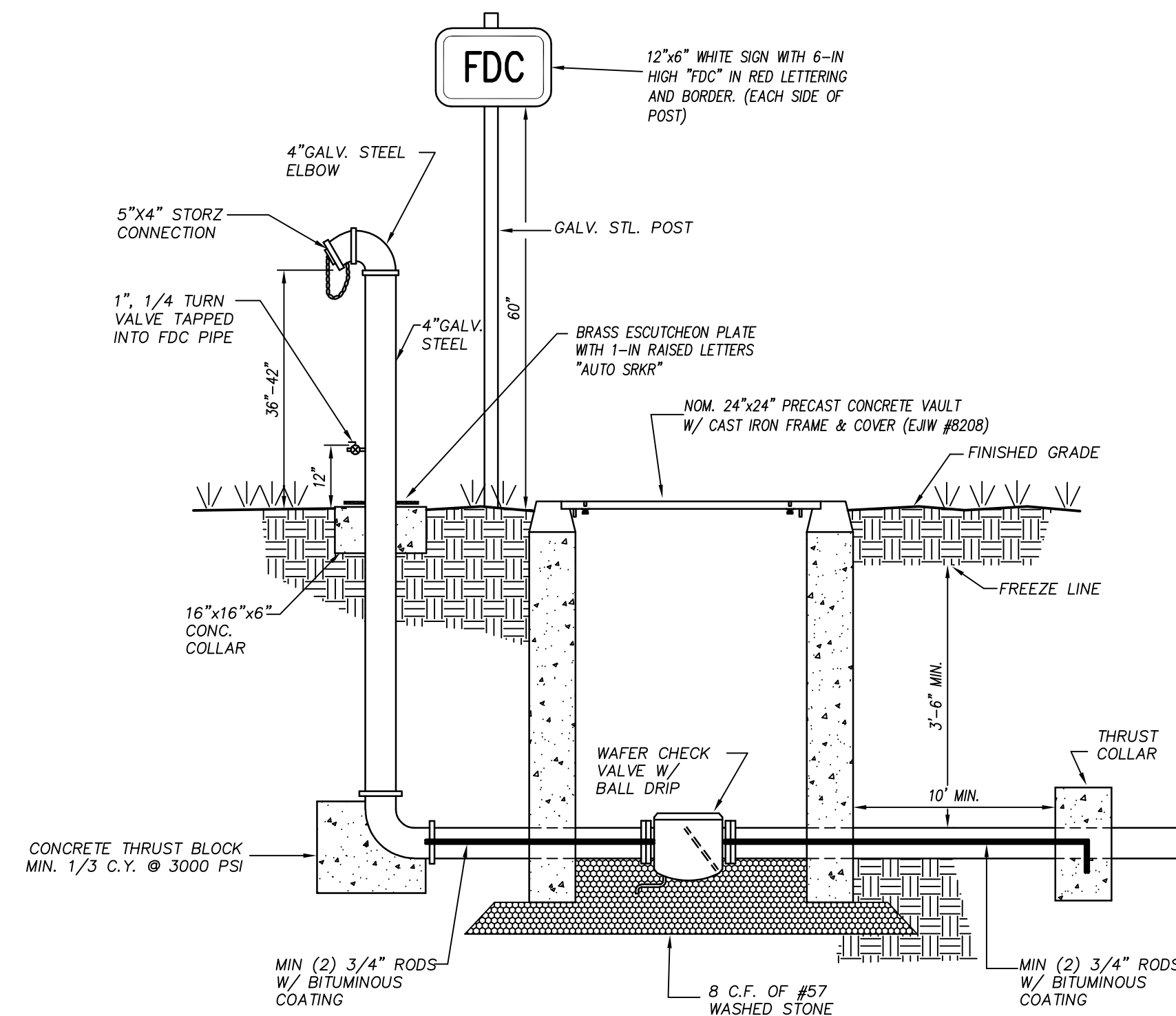
1. REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.
2. USE 6" 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH STANDARD DETAIL

REVISIONS DATE BY/ISSUED 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 04-28-2025

CLH PROJECT NO 22-154

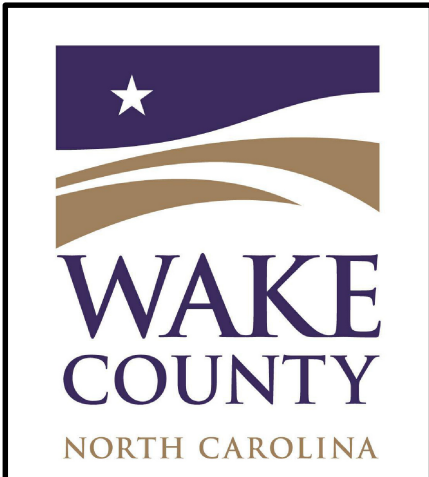
REVISIONS		
NO	DATE	DESCRIPTION:

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PRELIMINARY PLANS
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DO NOT USE FOR
CONSTRUCTION

SHEET NUMBER

C803



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING DETAILS

DATE 04-28-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

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SHEET NUMBER

C901

		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.

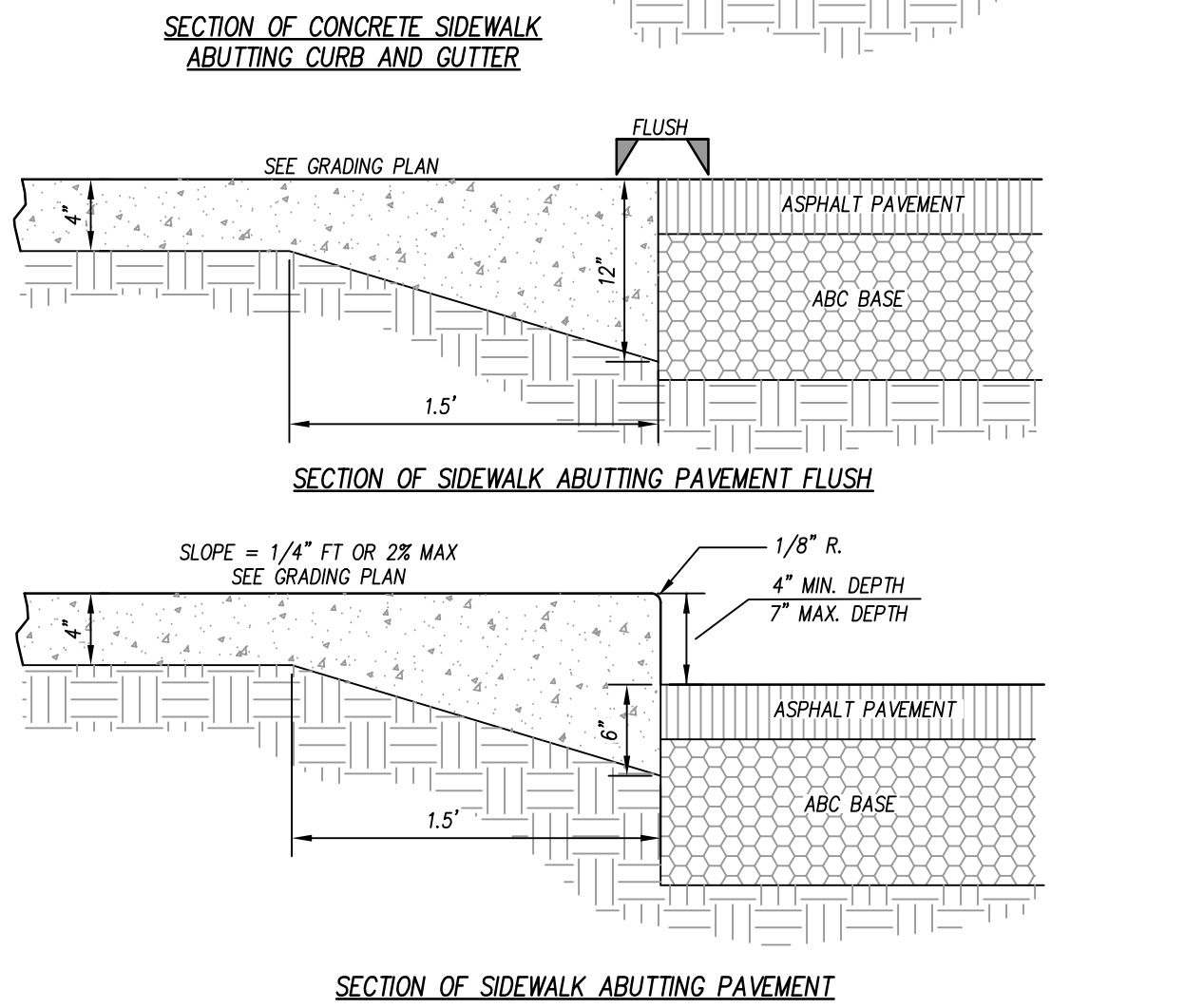
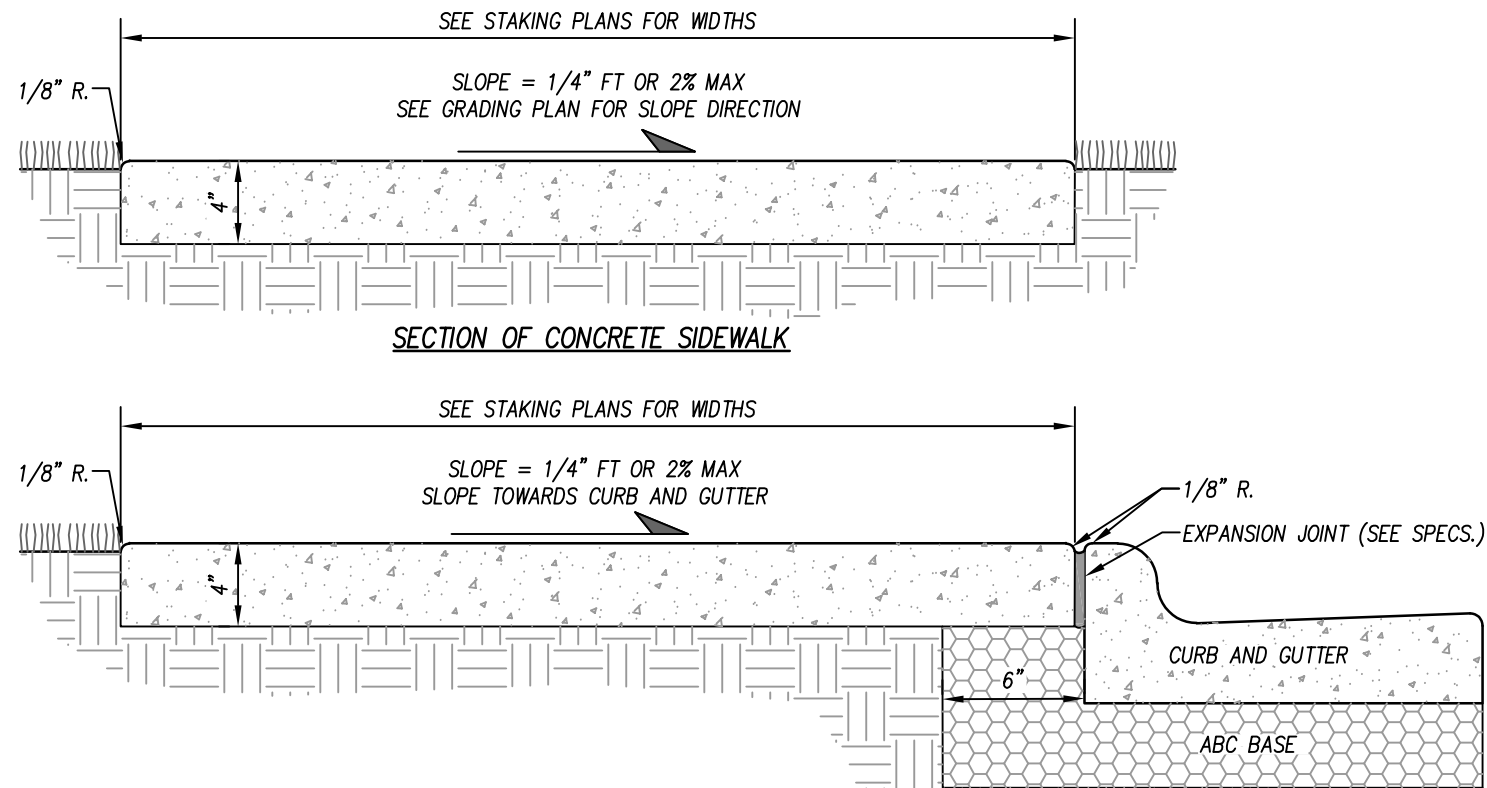
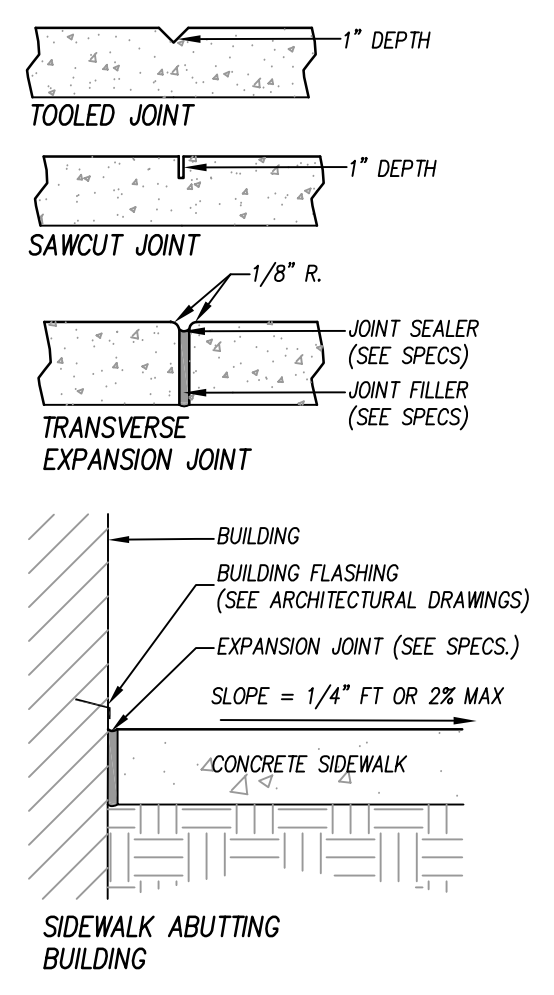
THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.

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

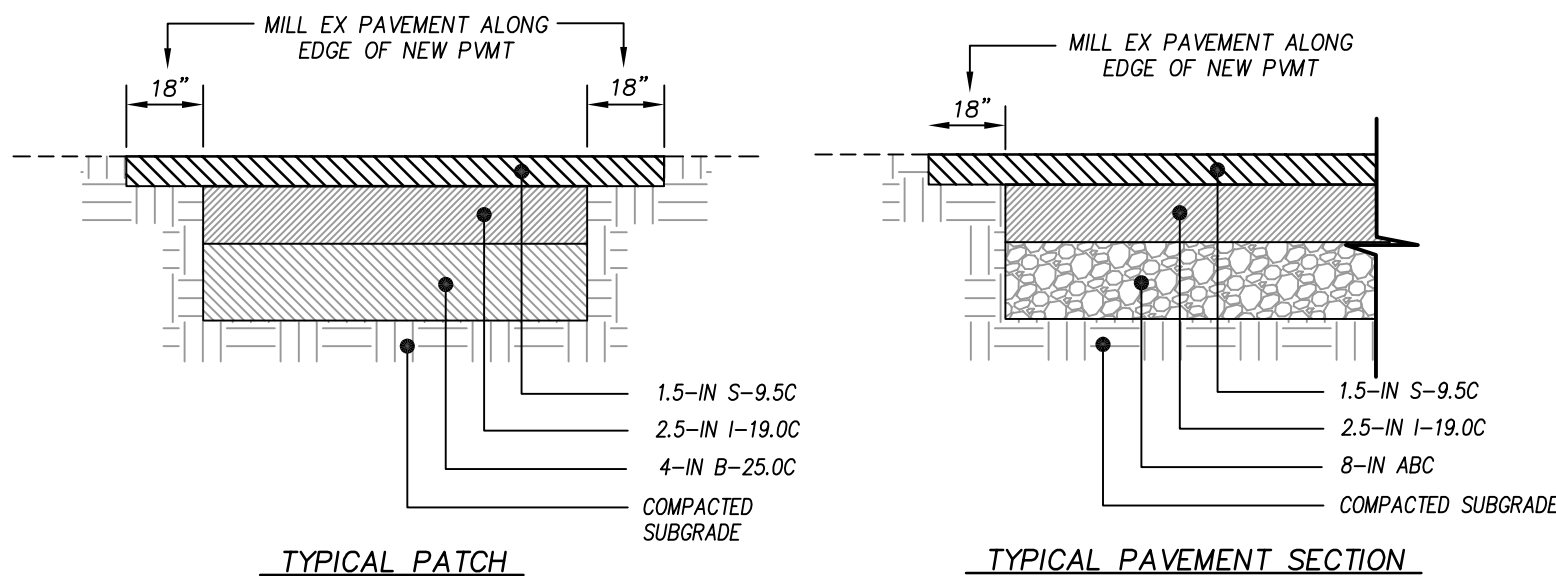
N.T.S.

- 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.



CONCRETE SIDEWALK

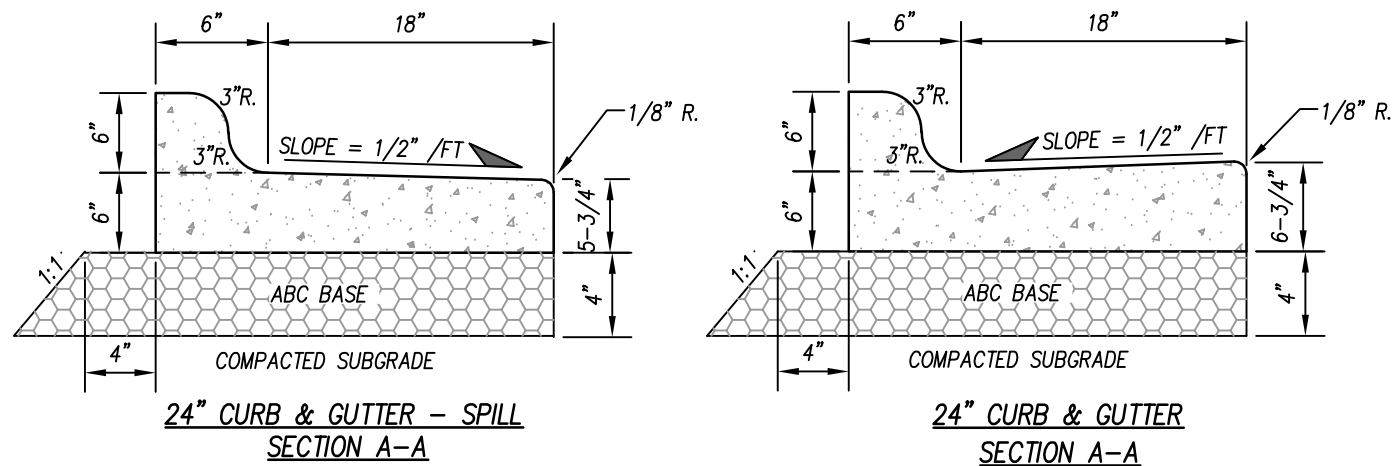
N.T.S.



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

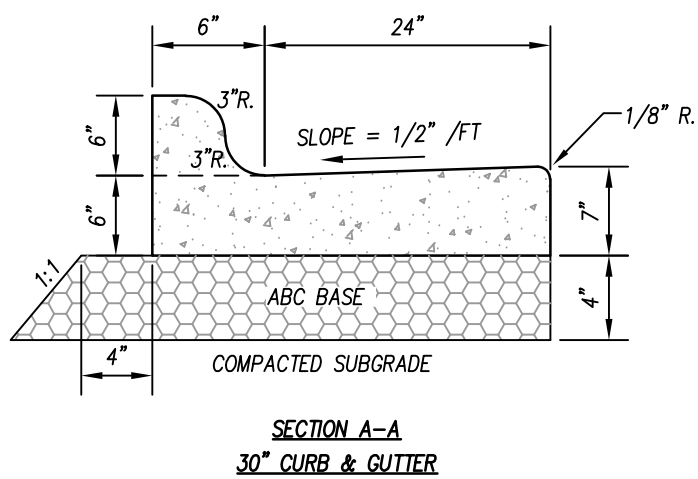
ASPHALT PATCH

N.T.S.

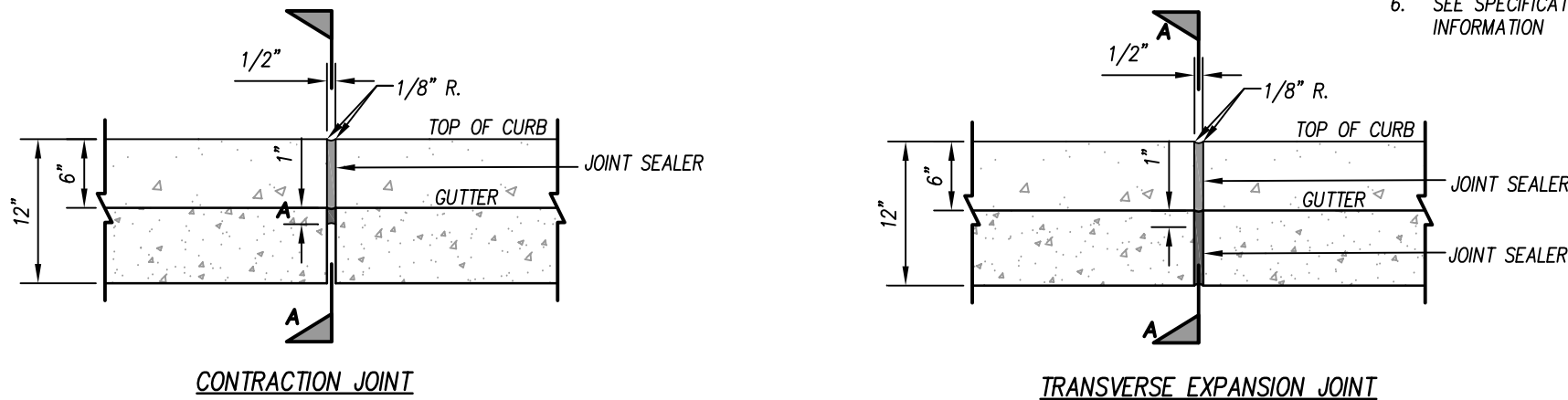


CURB AND GUTTER NOTES:

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.

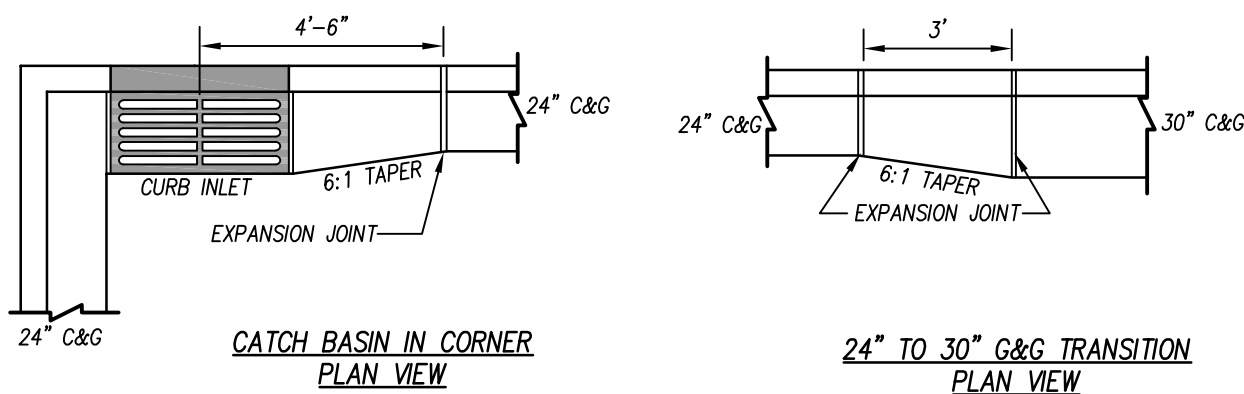


SECTION A-A
30" CURB & GUTTER



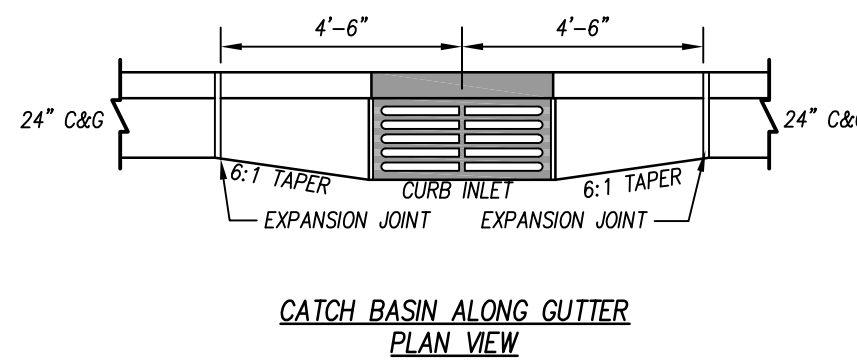
CONTRACTION JOINT

TRANSVERSE EXPANSION JOINT

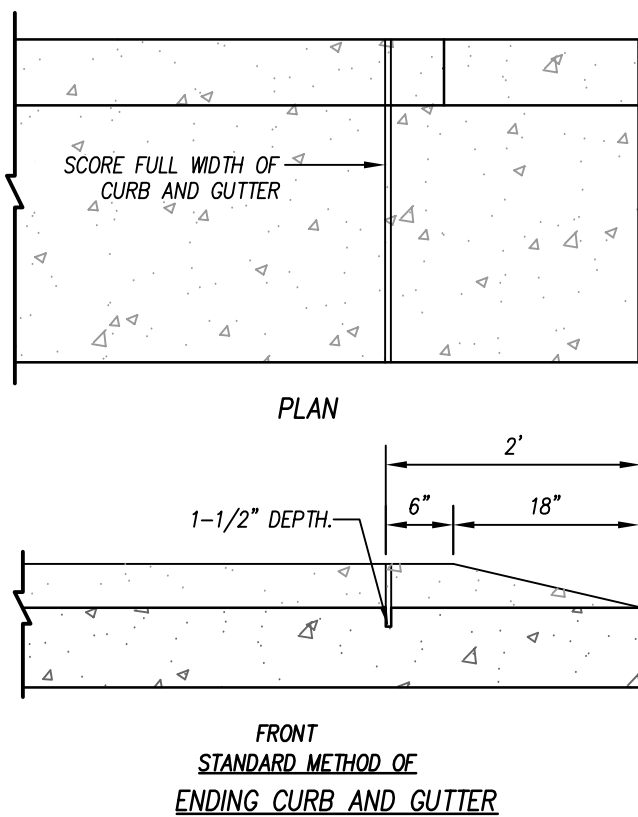


CATCH BASIN IN CORNER
PLAN VIEW

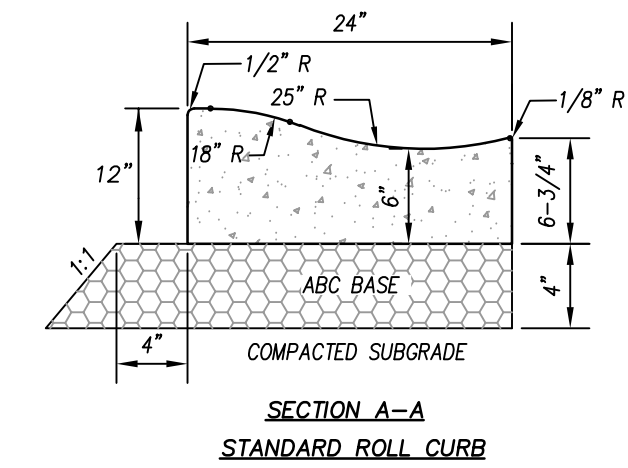
24" TO 30" G&G TRANSITION
PLAN VIEW



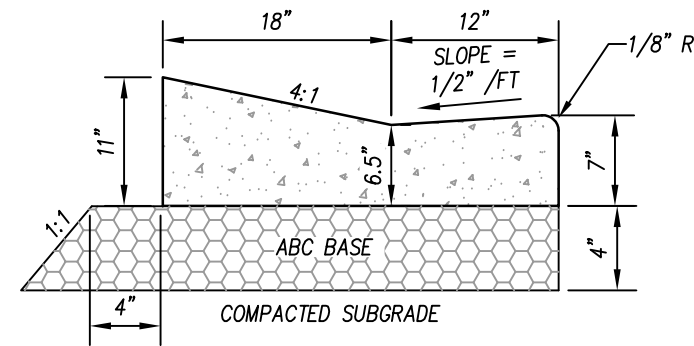
CATCH BASIN ALONG GUTTER
PLAN VIEW



FRONT
STANDARD METHOD OF
ENDING CURB AND GUTTER



SECTION A-A
STANDARD ROLL CURB

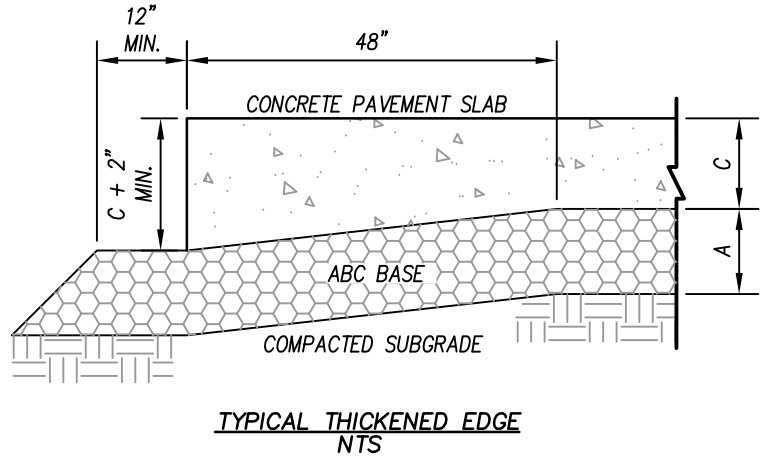


SECTION A-A
30" VALLEY CURB

CURB AND GUTTER

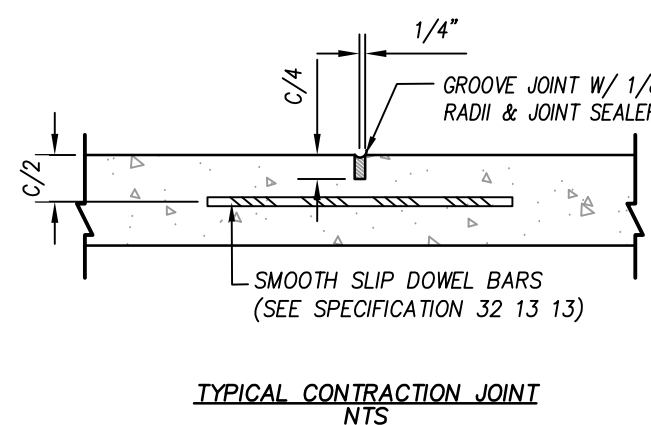
N.T.S.

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

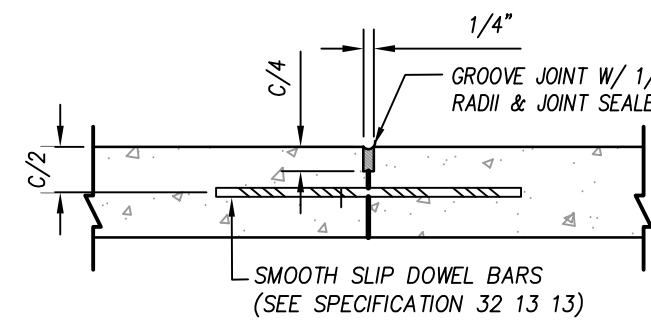


TYPICAL THICKENED EDGE
N.T.S.

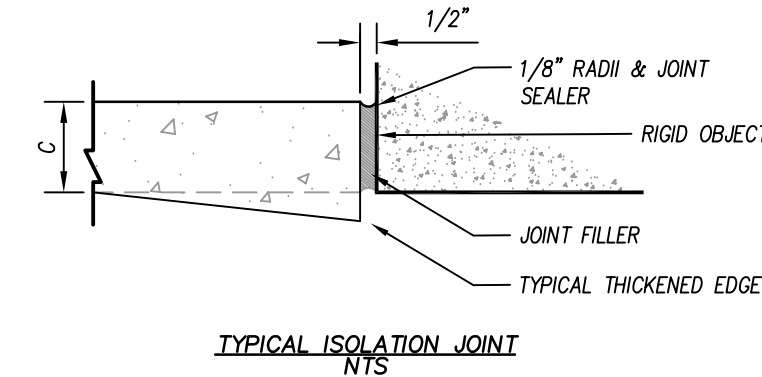
- NOTES:
1. ALL CONCRETE SHALL BE OF NDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
 2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32.13.13.
 3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 4. JOINTS IN CURB & 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.



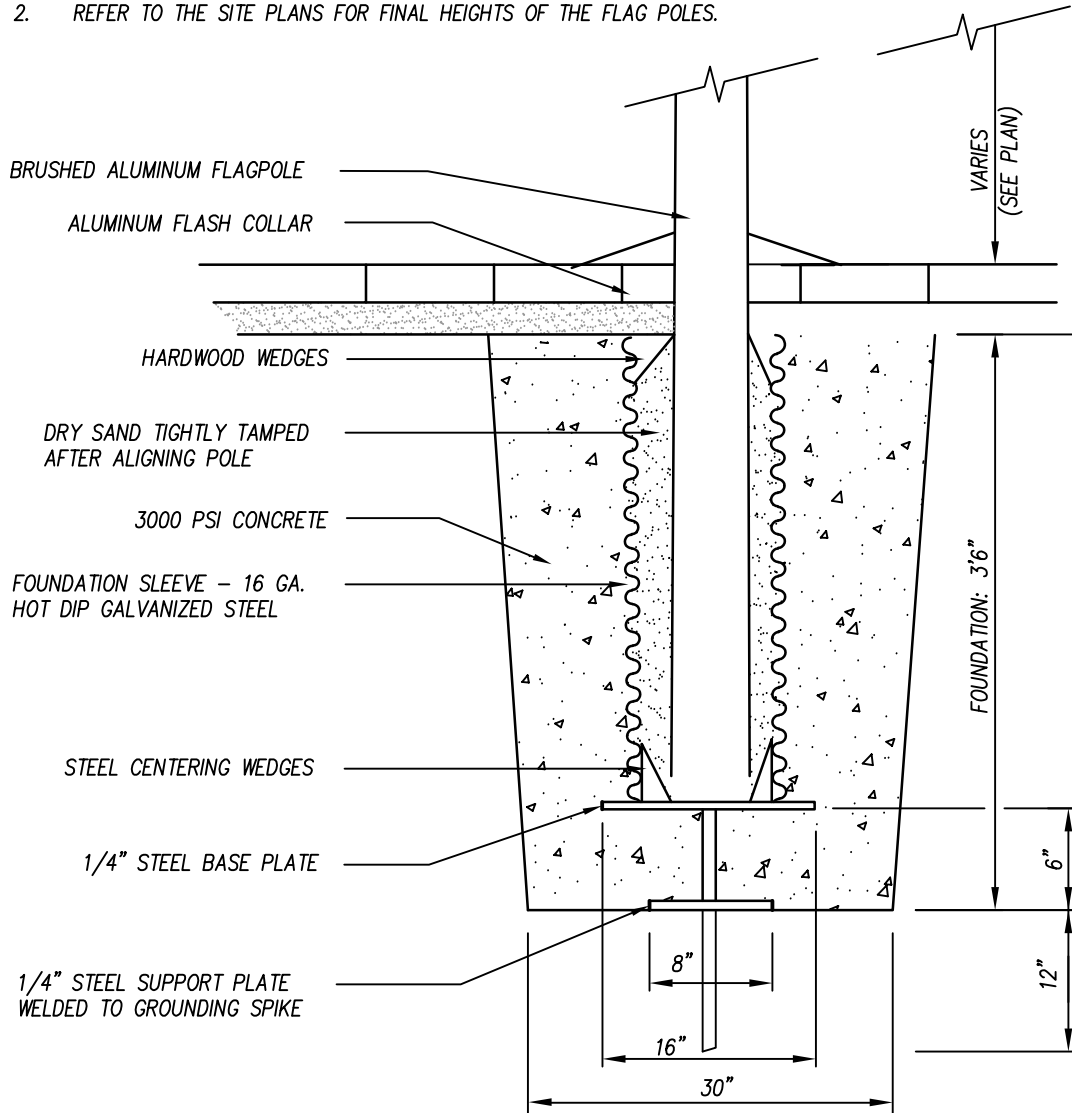
TYPICAL CONSTRUCTION JOINT
N.T.S.



TYPICAL ISOLATION JOINT
N.T.S.

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.



FLAG POLE BASE DETAIL

N.T.S.

HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS)

N.T.S.

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

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

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

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

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

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

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

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

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

CROSS SLOPE SHALL BE MAX 2%.

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

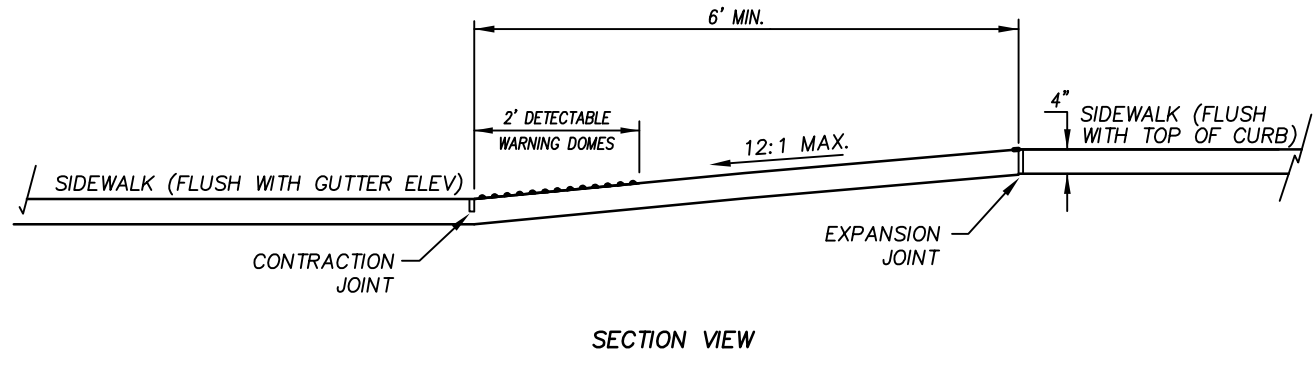
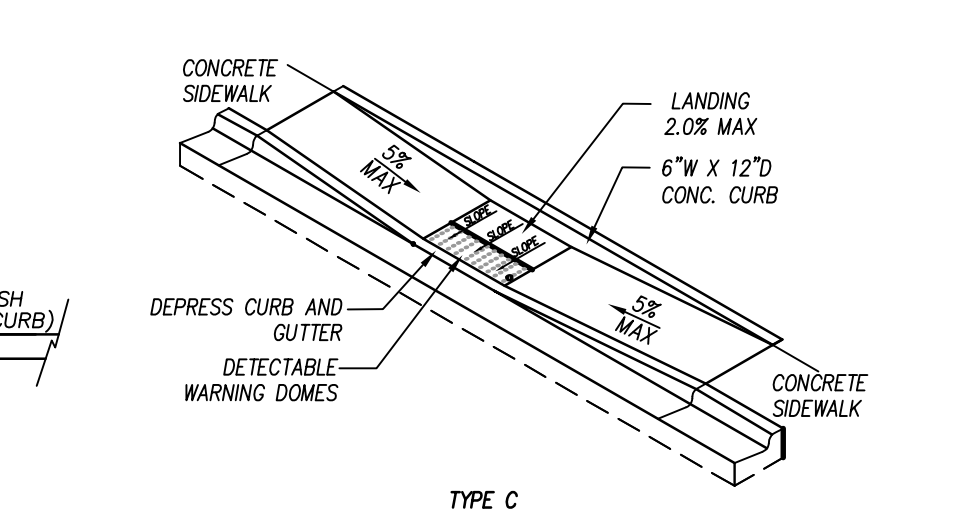
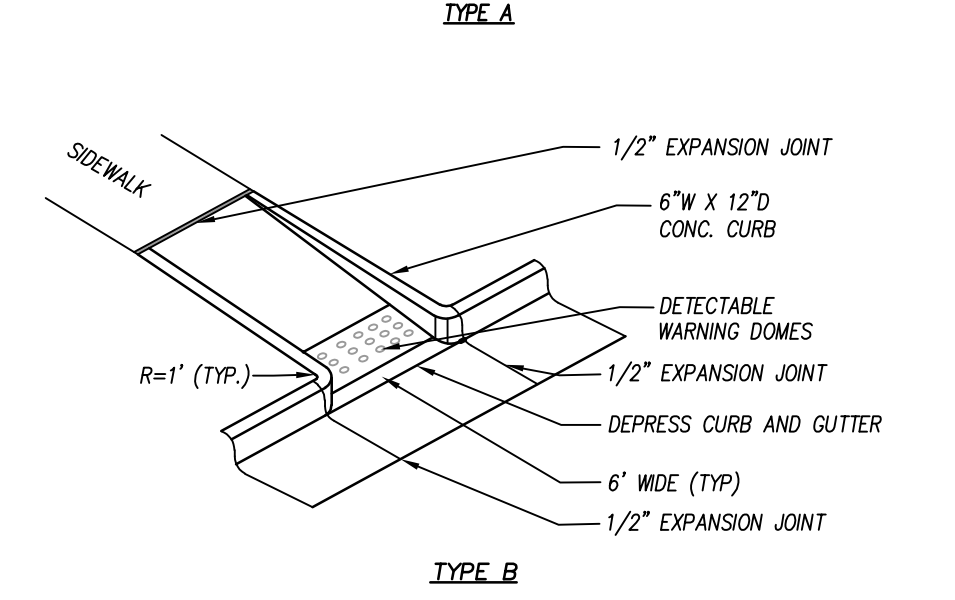
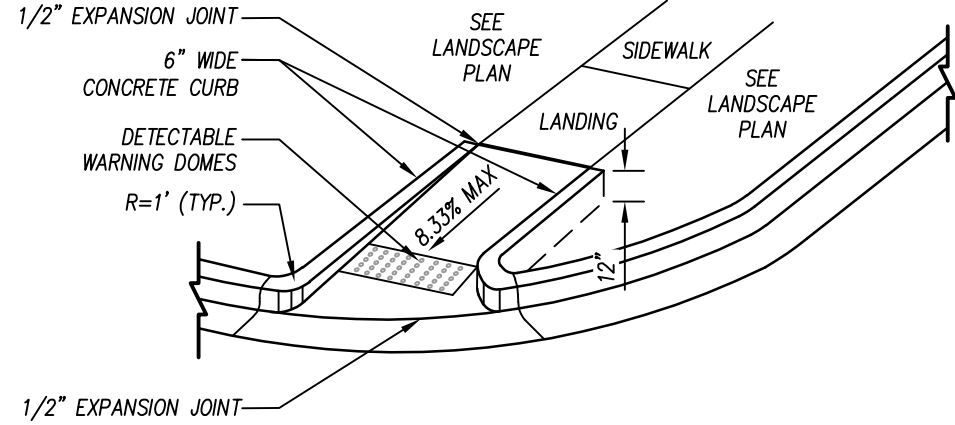
DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

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

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

$B = X - (A + S)$
 $B =$ DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



ACCESSIBLE CURB RAMPS

N.T.S.

NOTES:

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

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

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

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

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

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

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

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

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

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

ALL DIMENSIONS ARE FROM FACE OF CURB

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

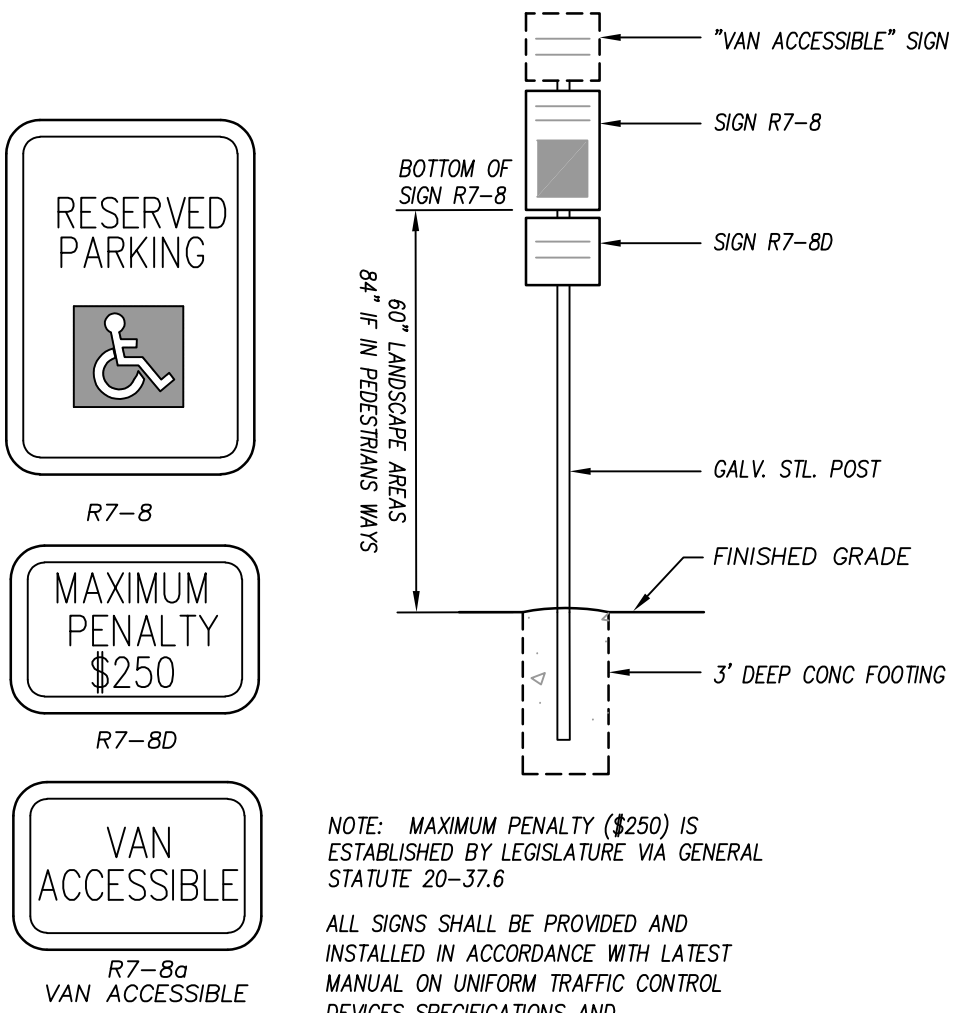
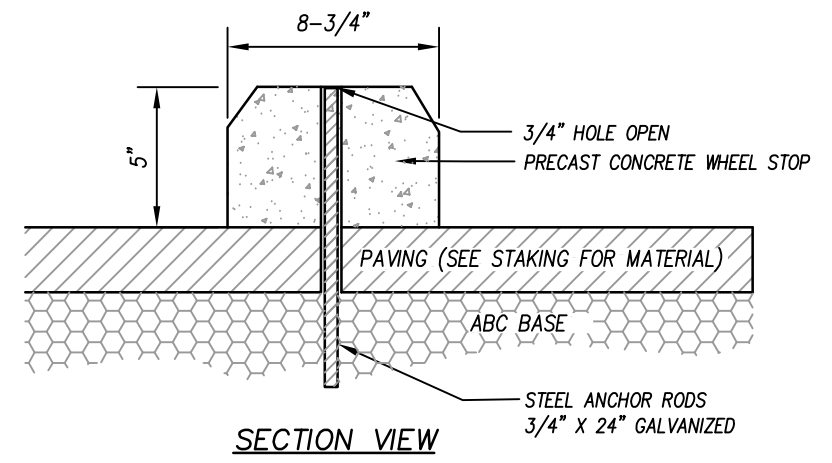
ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAN 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE.

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

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

CROSS SLOPE SHALL BE MAX 2%

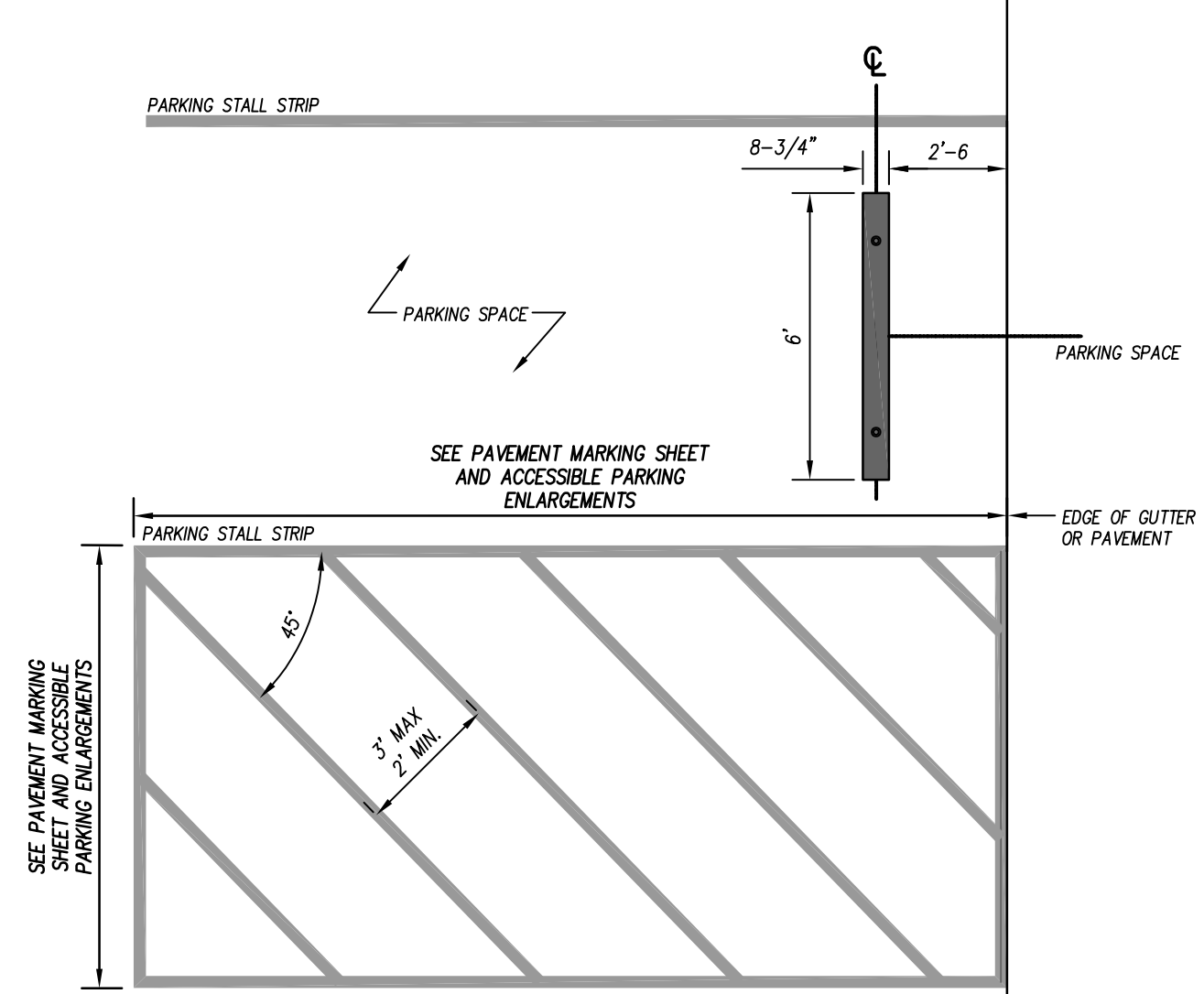
PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CRETE SURFACES



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



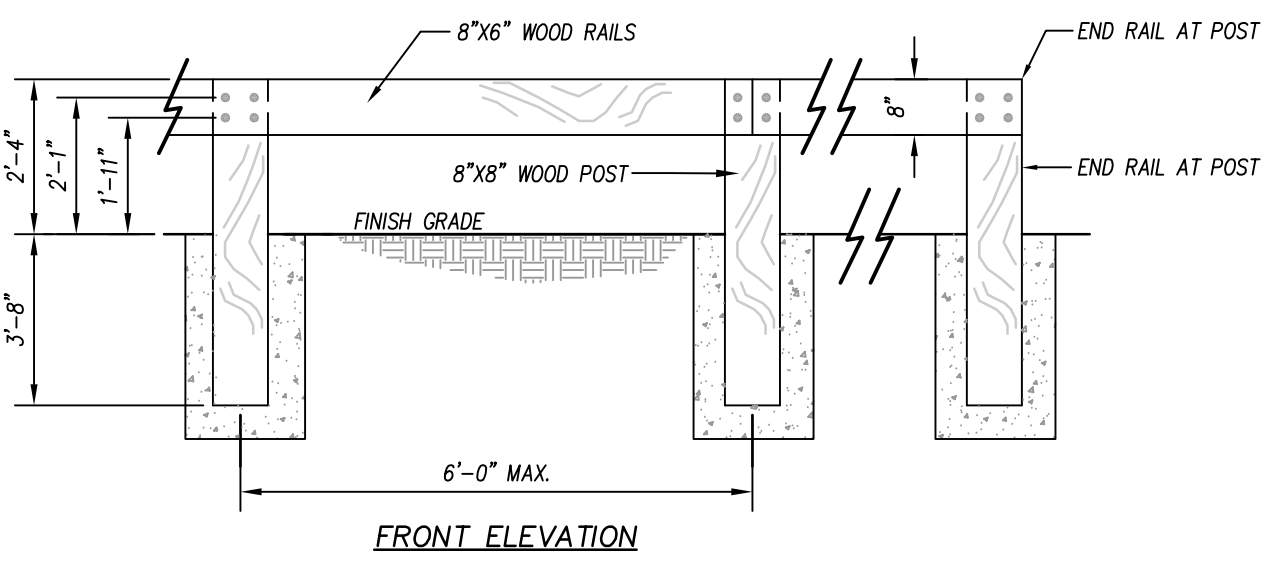
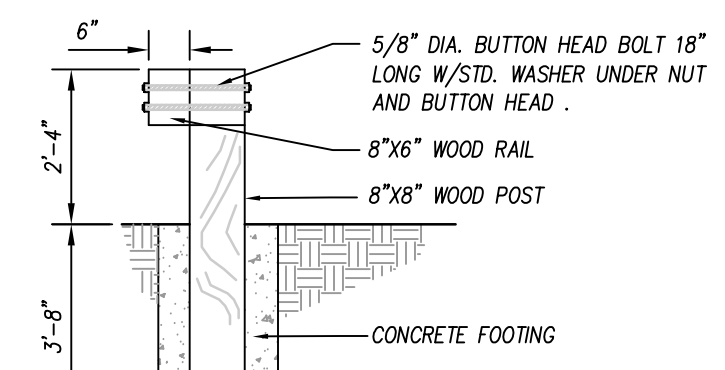
ACCESSIBLE STALL STRIPING AND 90\"/>

N.T.S.

NOTES:

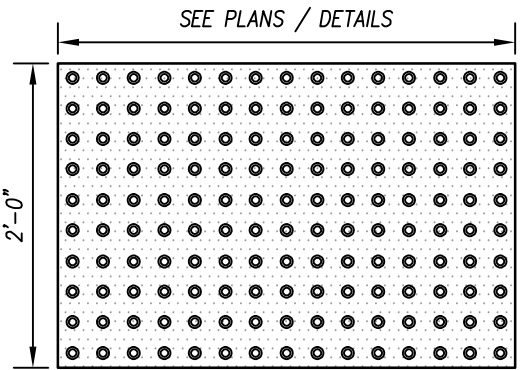
1. ALL WOOD SHALL BE NO.2 CCA PRESSURE TREATED YELLOW PINE

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



TRAFFIC GUARDRAIL

N.T.S.

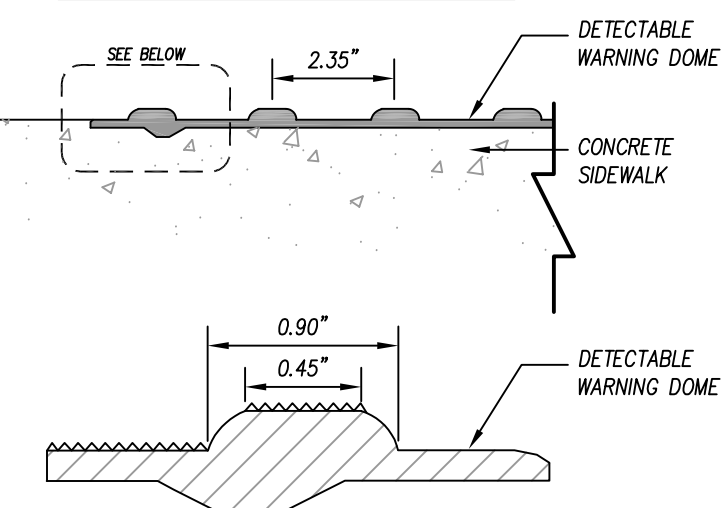


NOTES:

DOMES SHALL BE YELLOW OR PER LOCAL CODE.

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

INSTALLATION PER MANUFACTURE.



DETECTABLE WARNING DOMES

N.T.S.

BIKE RACK:

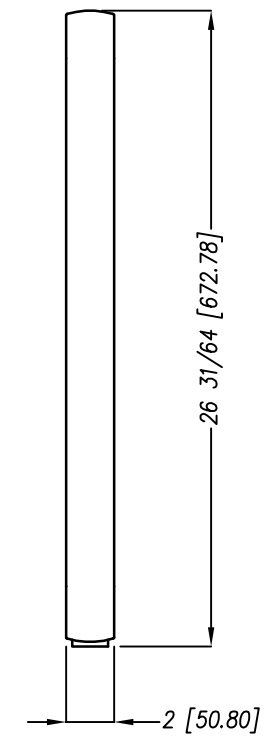
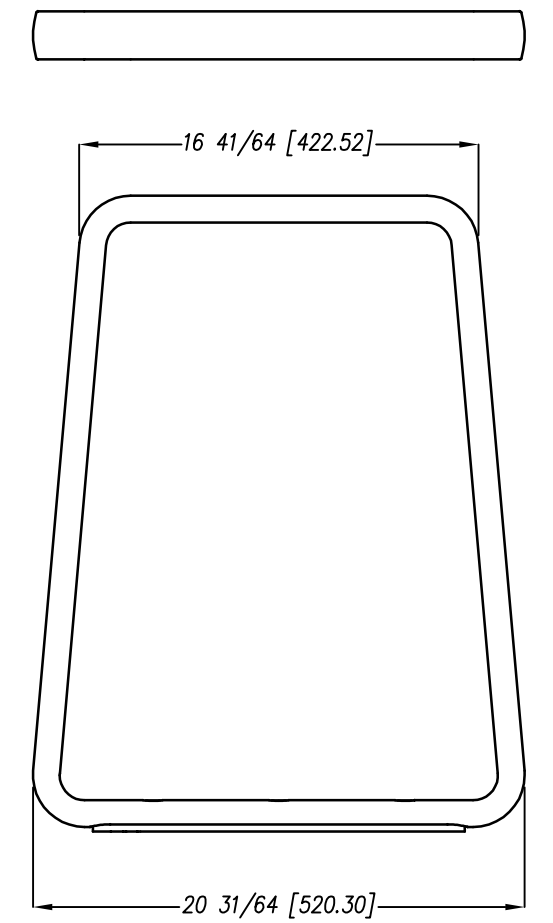
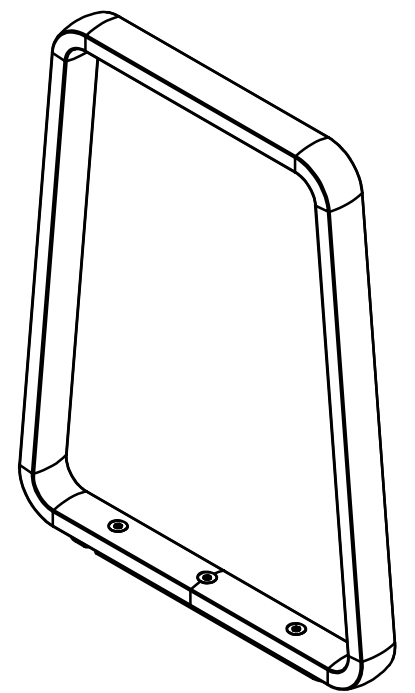
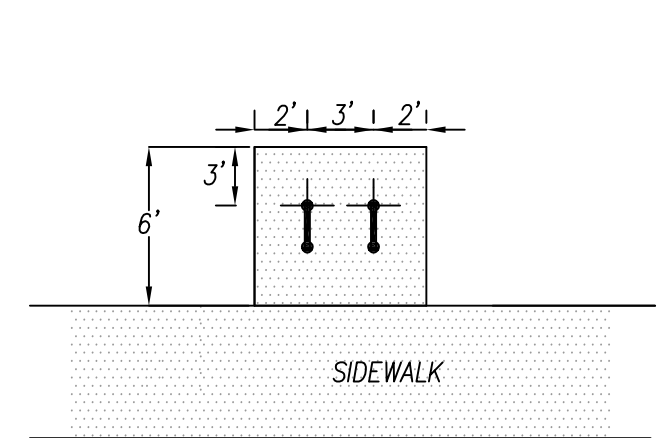
1. MAGLIN ICONIC BIKE RACK 2300 SERIES OR APPROVED EQUAL.

2. COLOR: BLACK.

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

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

5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



BIKE RACK DETAIL

N.T.S.



ZEBULON PUBLIC SAFETY STATION

201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

STAKING DETAILS

DATE 04-28-2025
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SHEET NUMBER



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201 W. JUDD STREET
ZEBULON, NC 27597

CONSTRUCTION DOCUMENTS

LANDSCAPE DETAILS

DATE 04-28-2025

CLH PROJECT NO 22-154

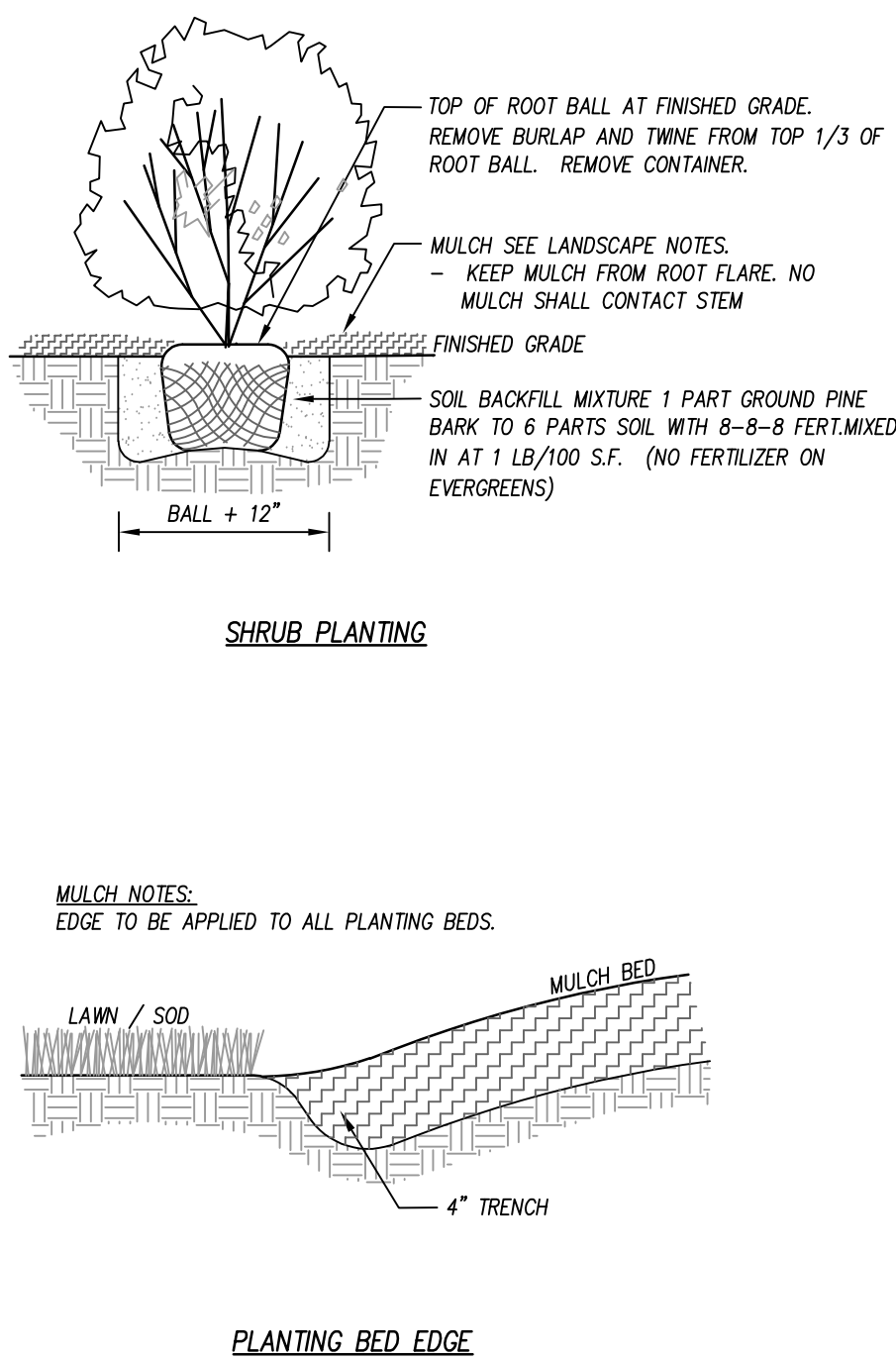
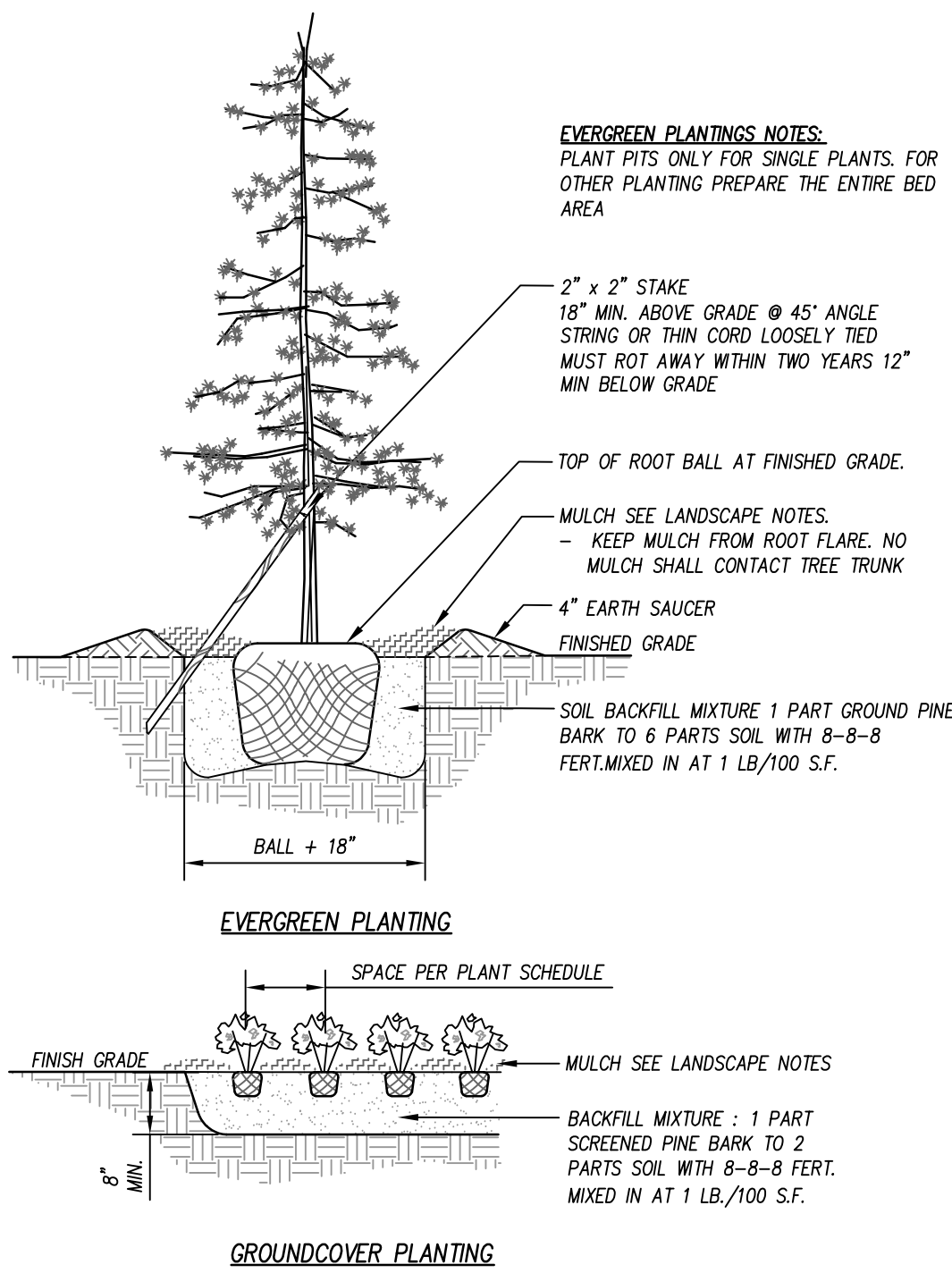
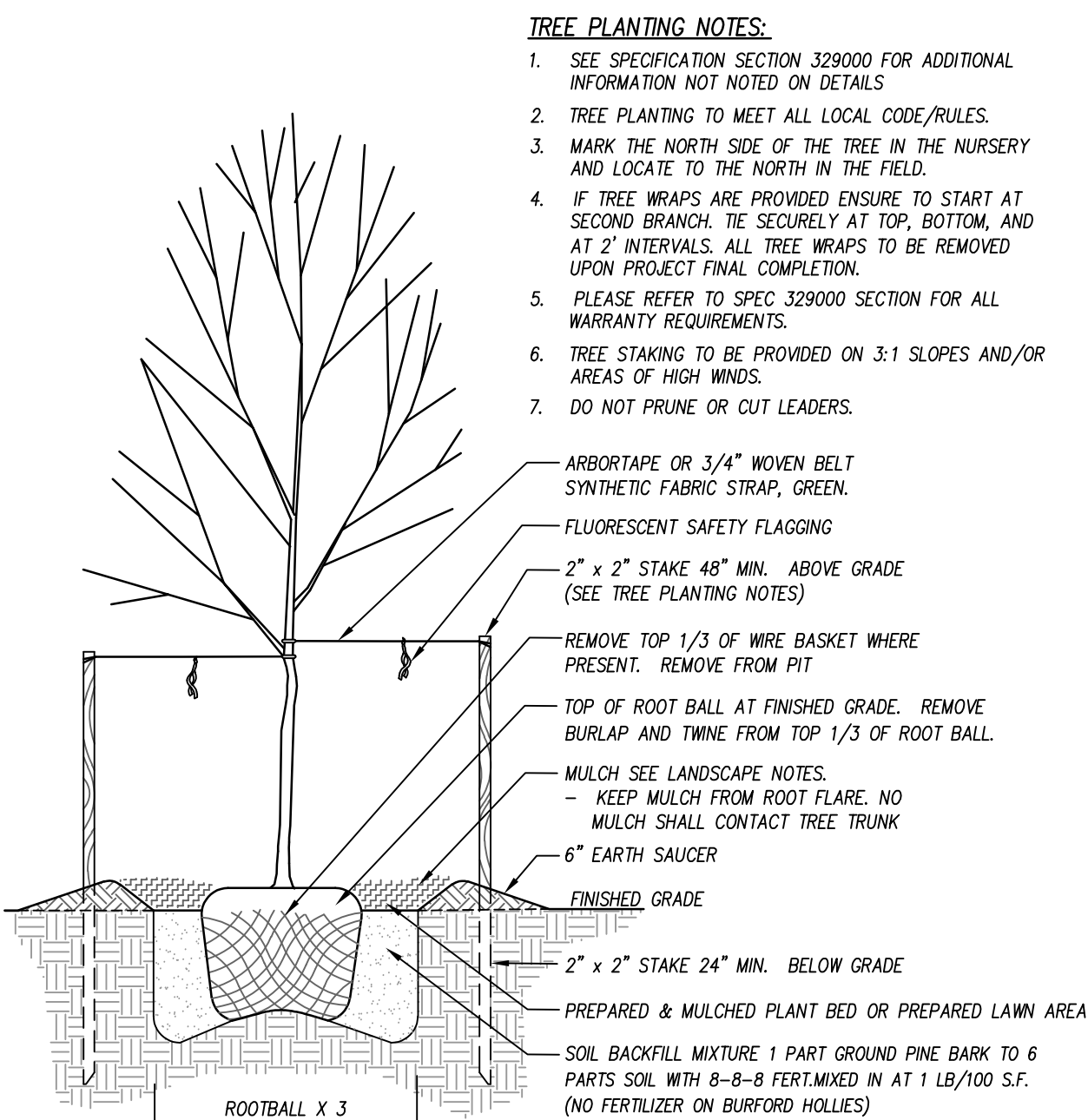
REVISIONS
NO DATE DESCRIPTION:

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PRELIMINARY PLANS
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SHEET NUMBER

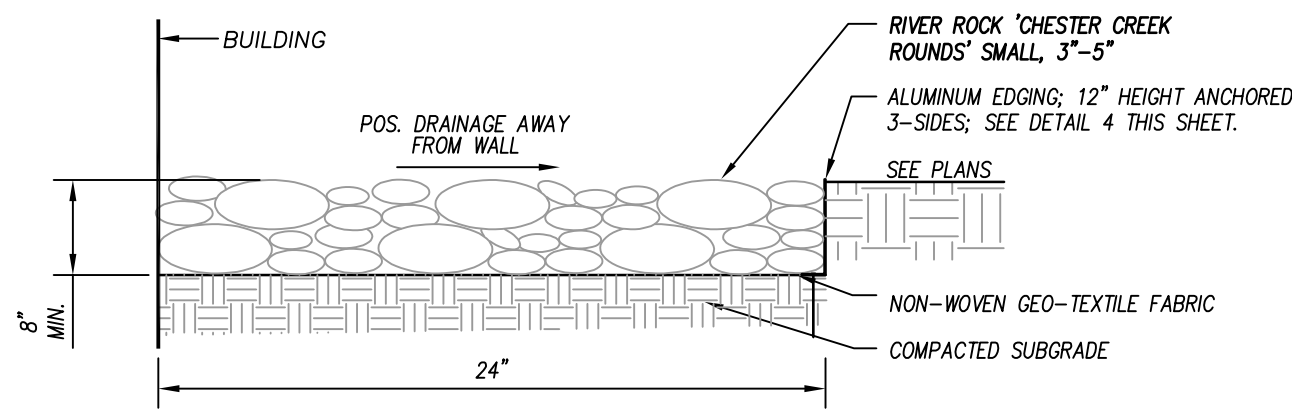
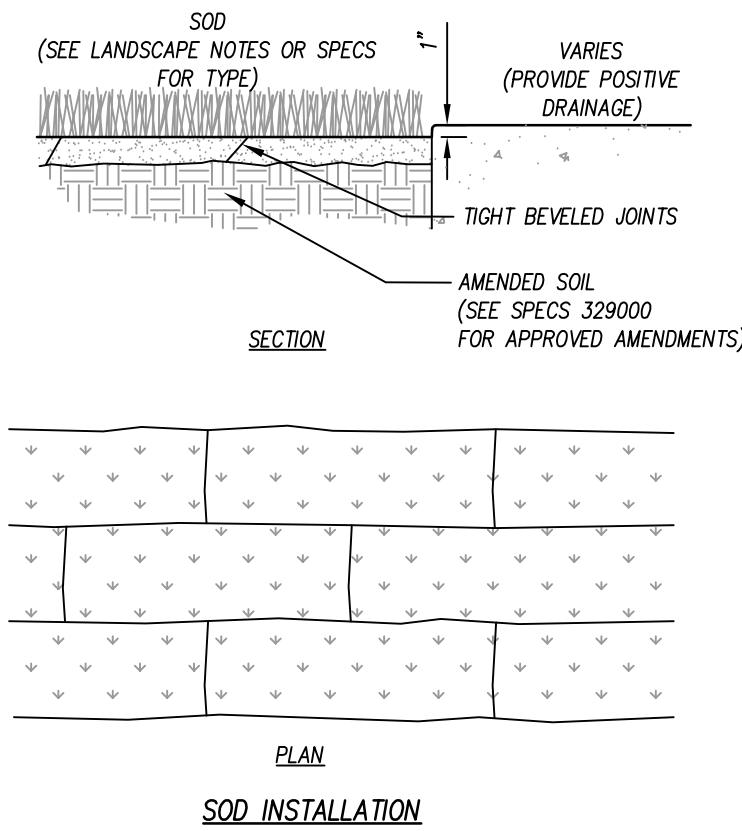
C903



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 TIL 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.

REMOVE NETTING PRIOR TO INSTALLATION



EDGING NOTES:

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - 16"-0" SECTIONS TO INCLUDE (8) 12" (305 MM)
 - SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM.
 - ALUMINUM STAKES: CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
- TOP OF EDGING TO BE MAXIMUM
OF (12.7MM) ABOVE SURFACE
MATERIAL.
- PERMALOC PERMASTROP ALUMINUM
EDGING (OR EQUAL)
- COMPACT GRADES ADJACENT TO
EDGING TO AVOID SETTLING
- 12" (305MM) ALUMINUM STAKES TO
LOCK INTO PREFORMED LOOPS ON THE
EDGING.
- 1/2"
- WIDTH VARIES
- ALUMINUM EDGING**

PLANTING / LANDSCAPING DETAIL

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 PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSESMEN 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.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS. (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN OF DYED BROWN DESIGNER (PALETTIZED) MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS. BUFFER PLANTINGS MAY USE TRIPLE SHREDDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS. (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 - 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 SEEDDED WITH RIVERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TOP BERMUDA. 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LIMITS.
- ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

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

DATE	TYPE	SEEDING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN)	10 LBS PER 1,000/SF 35 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN WHEAT *** 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 DISTURBED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

LIME AND FERTILIZATION SCHEDULE:

- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION.
- CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS:

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCELSDOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE (2 TONS LB/AC) GRAIN STRAW OVER SEEDDED AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
- SEE NCEQ 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	150 LBS/ACRE *

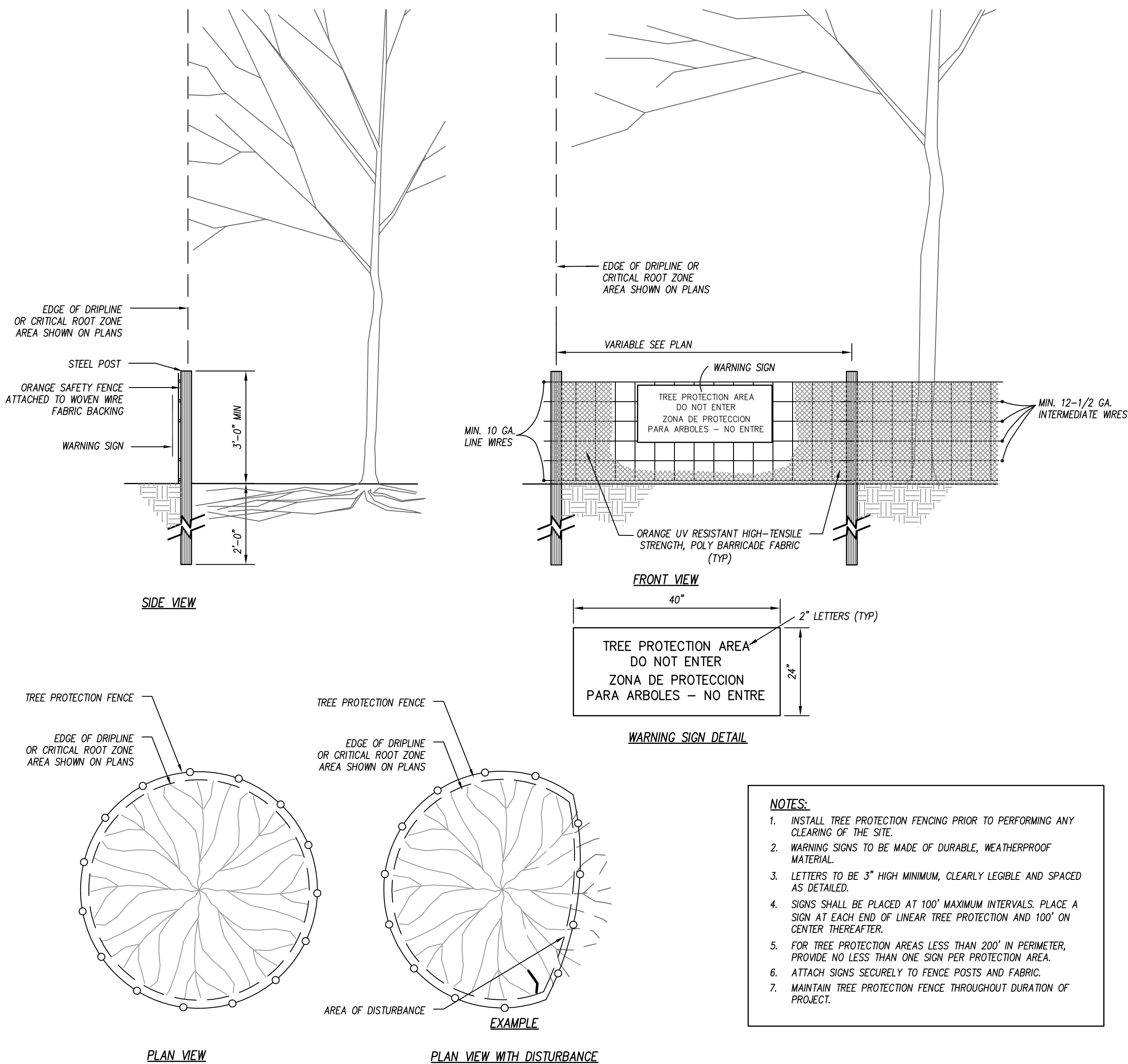
* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

LAWN MAINTENANCE NOTES:

- SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
- LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
- IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
- DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

TURF, SOD AND SEEDBED PREPARATION:

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



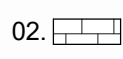
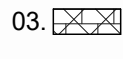
PLANTING / LANDSCAPING NOTES

N.T.S.

TREE PROTECTION FENCE

N.T.S.

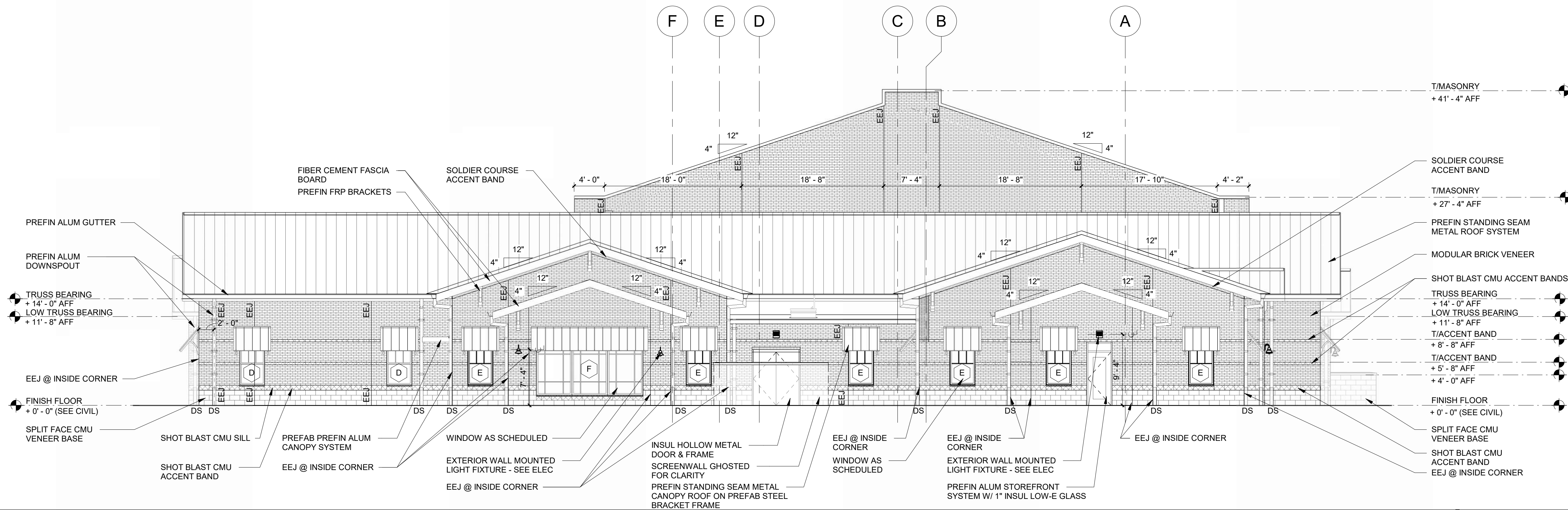
EXTERIOR COLOR SCHEDULE:

01. FIELD BRICK (BASIS OF DESIGN) COLOR SHALL MATCH PALMETTO BRICK COMPANY "MEDIUM RED WIRE CUT." OTHER ACCEPTABLE: GENERAL SHALE "RED WIRECUT", TAYLOR CLAY PRODUCTS "RED WIRECUT", OR APPROVED SUBSTITUTE SUBJECT TO COMPLIANCE WITH THE DRAWINGS & SPECIFICATIONS
02.  FIELD CMU VENEER (BASIS OF DESIGN) SHALL BE SPLIT FACE CMU #4201 BY 'OLD CASTLE'
03.  FIELD CMU VENEER (BASIS OF DESIGN) SHALL BE SHOT BLAST CMU #4309 BY 'OLD CASTLE'
04. STANDING SEAM METAL ROOF & AWNING COLOR SHALL BE 'DARK BRONZE' BY DMI
05. METAL ROOF ACCESSORIES, GUTTERS, DOWNSPOUT & DOWNSPOUT SHOES SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
06. FASCIA BOARDS SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
07. FLUSH METAL SOFFIT PANEL (NON-VENTED) SHALL BE CUSTOM COLOR (P-6) PPG#1001-7 "BLACK MAGIC"
08. STOREFRONT SYSTEMS, AND WINDOWS SHALL BE CUSTOM COLOR (P-7) PPG#1023-5 "STONE GRAY"
09. FRONT BI-FOLD DOORS SHALL BE CUSTOM COLOR (P-8) RAL #3003 "RUBY RED"
10. REAR SECTIONAL OVERHEAD DOORS TO BE SELECTED FROM MANUFACTURERS STANDARD RANGE OF COLORS
11. BOLLARDS TO BE PAINTED (P-6) PPG#1001-7 "BLACK MAGIC"
12. TRASH ENCLOSURE GATES SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
13. ALL ARCHITECTURAL PRECAST TO BE WHITE
14. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE (P-6) PPG#1001-7 "BLACK MAGIC"
15. ALL EXTERIOR LOUVERS & VENT CAPS COLORS TO BE SELECTED FROM MANUFACTURERS STANDARD COLOR CHART
16. EXTERIOR METAL WALL PANELS TO BE CUSTOM COLOR (P-6) PPG#1001-7 "BLACK MAGIC"

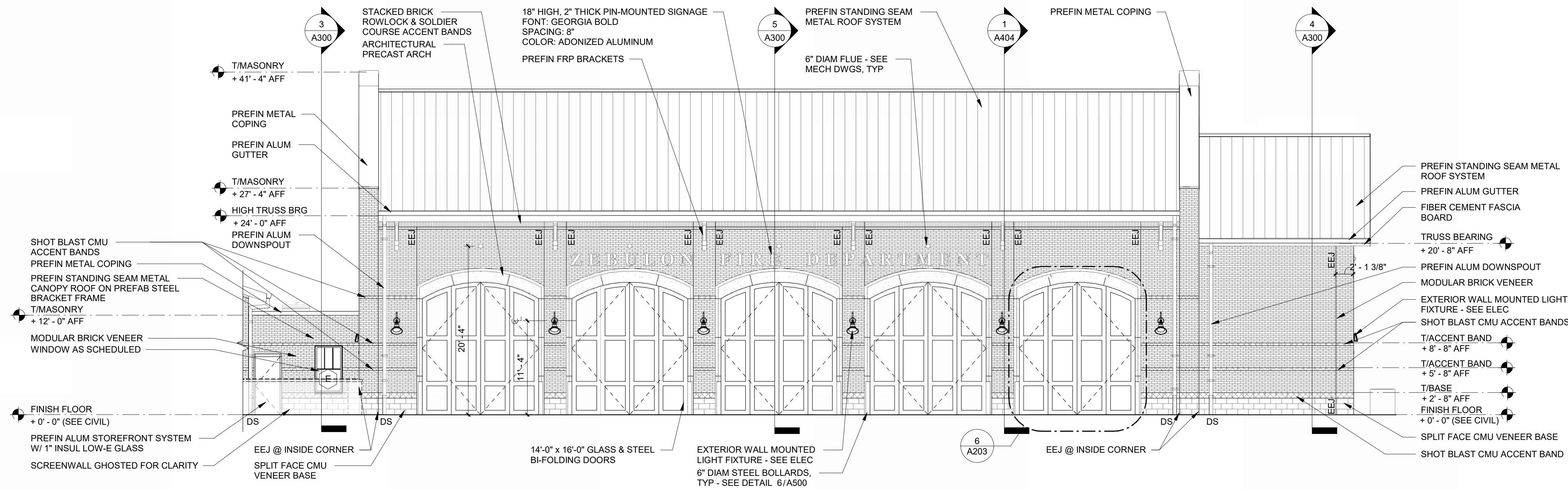
ELEVATION GENERAL NOTES

ELEVATION GENERAL NOTES

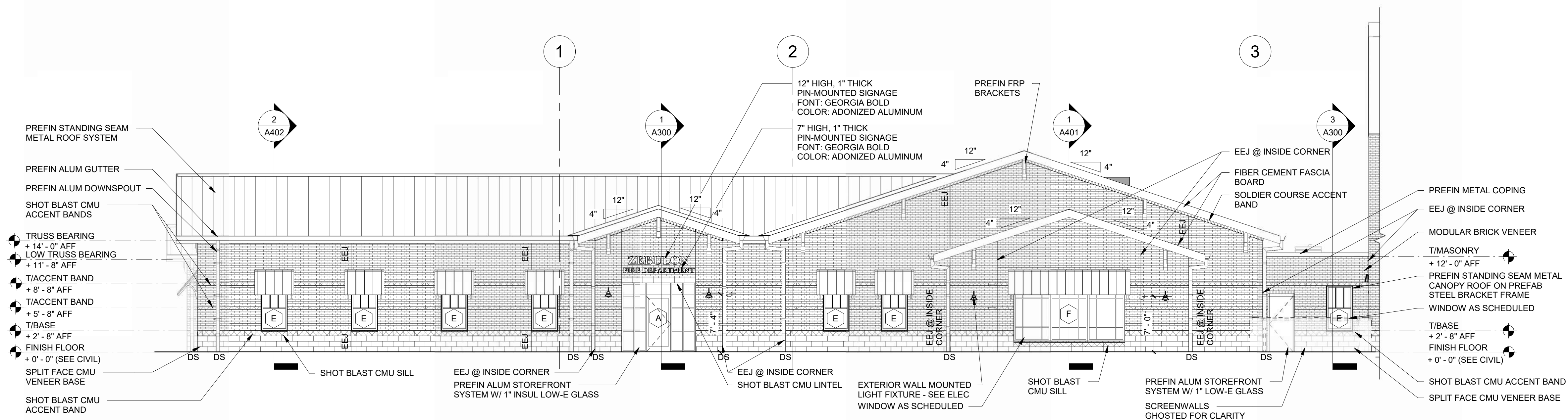
1. EXTERIOR EXPANSION JOINTS (EEJ)
2. MASON IS TO COMPLETELY FILL THE HEAD AND BED JOINTS OF ALL MASONRY
3. MASON IS TO KEEP ALL CAVITIES CLEAR OF MORTAR
4. PROVIDE SOLID BRICKS AT CORNERS. PROVIDE FINISHED FACE ON ALL VISIBLE SIDES
5. SEE SHEET SERIES A400 - WALL SECTIONS & DETAILS FOR ADDITIONAL INFORMATION AND DETAILS
6. ALL EXTERIOR WELDS TO BE GROUND SMOOTH PRIOR TO PAINTING
7. ALL EXTERIOR LOOSE LINTELS AT MASONRY OPENINGS TO BE GALVANIZED AND PAINTED TO MATCH BRICK - SEE STRUCT
8. VERIFY ALL MECHANICAL LOUVER SIZES WITH MECHANICAL DRAWINGS
9. PROVIDE CAULKING FOR ALL PRECAST JOINTS THAT ARE NOT IN COMPRESSION. PROVIDE MORTAR FOR ALL PRECAST JOINTS THAT ARE IN COMPRESSION.



SOUTHEAST ELEVATION 1/8" = 1'-0" 3



NORTHEAST PARTIAL ELEVATION 1/8" = 1'-0" 2



NORTHEAST PARTIAL ELEVATION 1/8" = 1'-0" 1



ZEBULON FIRE
DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597

EXTERIOR ELEVATIONS

DATE: 11.26.2024
PROJECT NO: 19073



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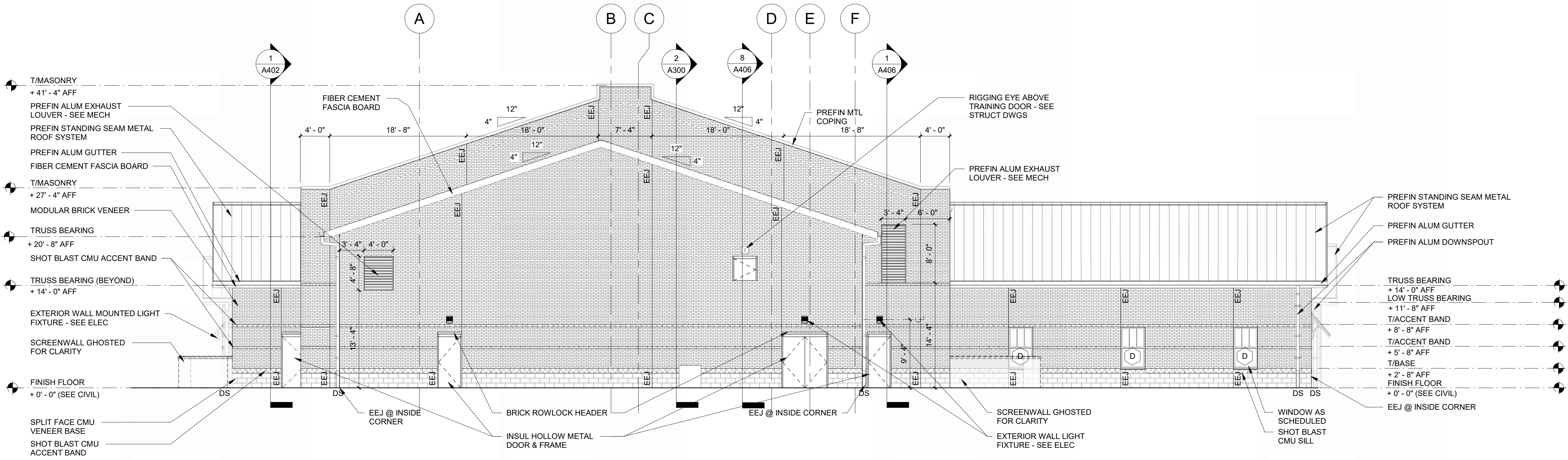
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SHEET NUMBER

A200

EXTERIOR COLOR SCHEDULE:

01. FIELD BRICK (BASIS OF DESIGN) COLOR SHALL MATCH PALMETTO BRICK COMPANY "MEDIUM RED WIRE CUT". OTHER ACCEPTABLE: GENERAL SHALE "RED WIRECUT", TAYLOR CLAY PRODUCTS "RED WIRECUT", OR APPROVED SUBSTITUTE SUBJECT TO COMPLIANCE WITH THE DRAWINGS & SPECIFICATIONS
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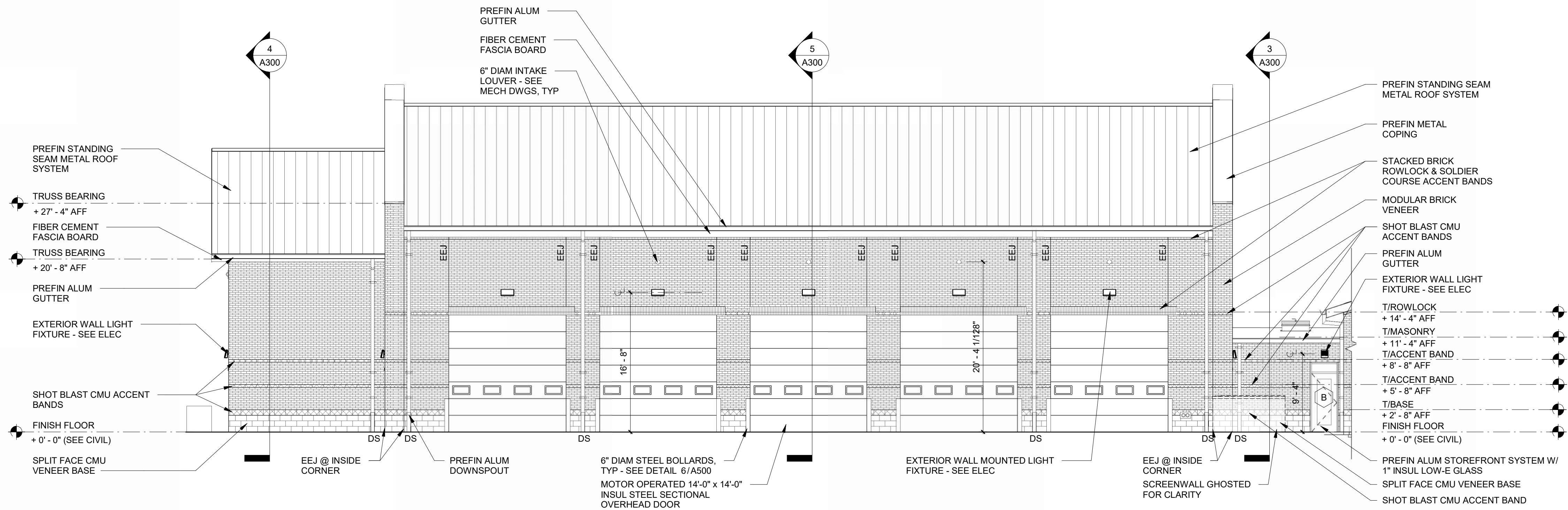


NORTHWEST ELEVATION 1/8" = 1'-0" 3

ELEVATION GENERAL NOTES

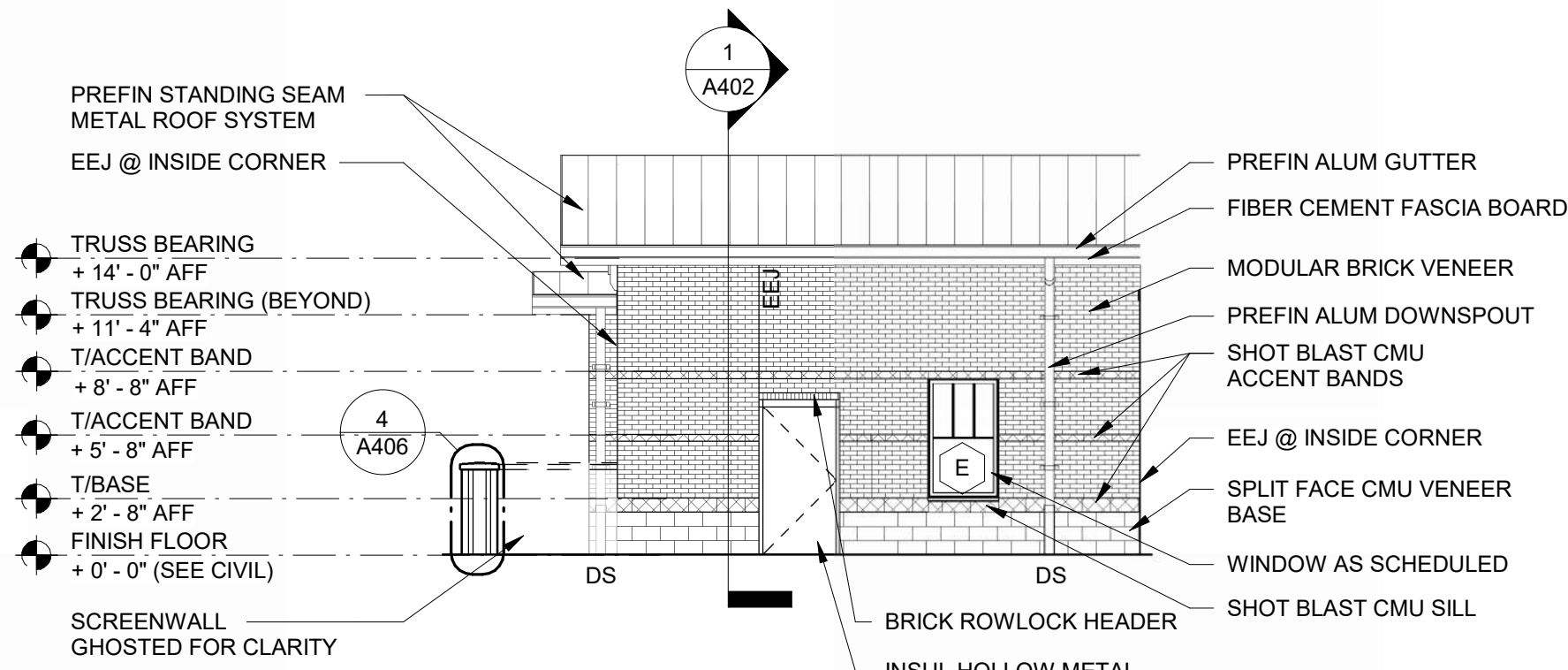
ELEVATION GENERAL NOTES

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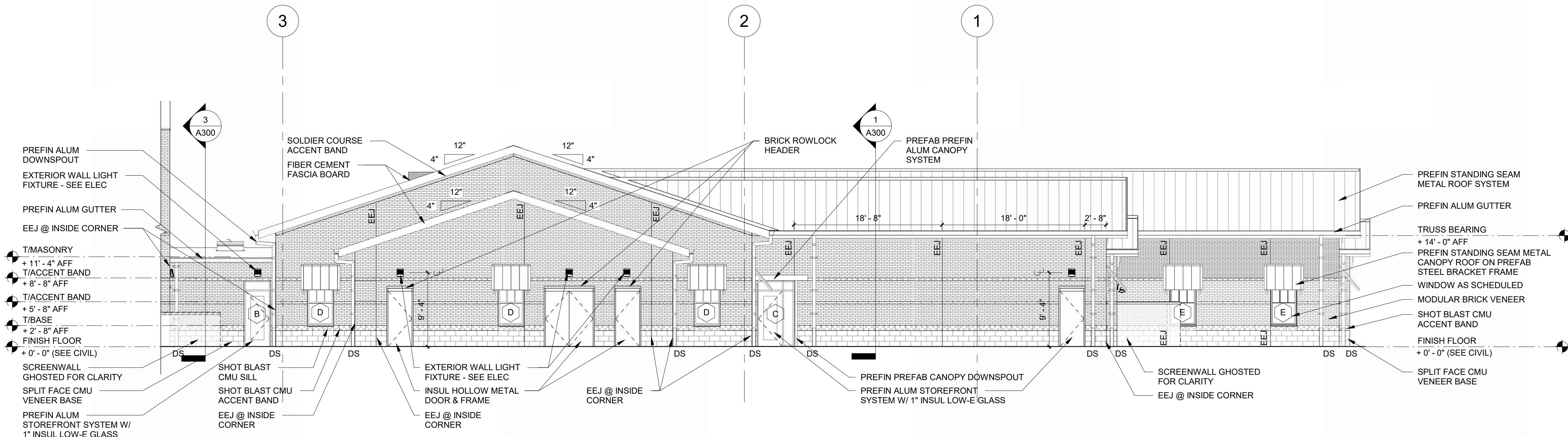


SOUTHWEST PARTIAL ELEVATION 1/8" = 1'-0" 2

NORTHWEST PARTIAL ELEVATION 1/8" = 1'-0" 5



NORTHWEST PARTIAL ELEVATION 1/8" = 1'-0" 4



SOUTHWEST PARTIAL ELEVATION 1/8" = 1'-0" 1



ZEBULON FIRE DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597

EXTERIOR ELEVATIONS

DATE: 11.26.2024
PROJECT NO: 19073

REVISIONS
NO: DATE: DESCRIPTION:

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SHEET NUMBER

A201



ZEBULON FIRE DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597

DUMPSTER ENCLOSURE DETAILS

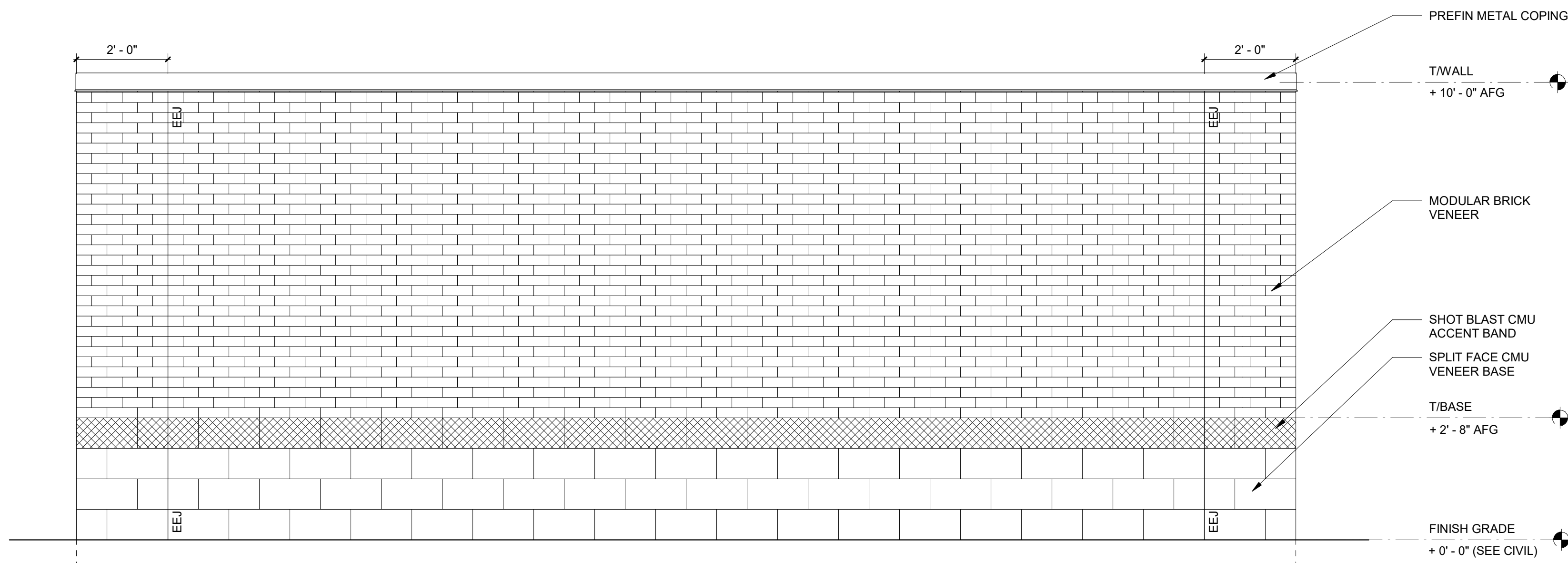
DATE: 11.26.2024
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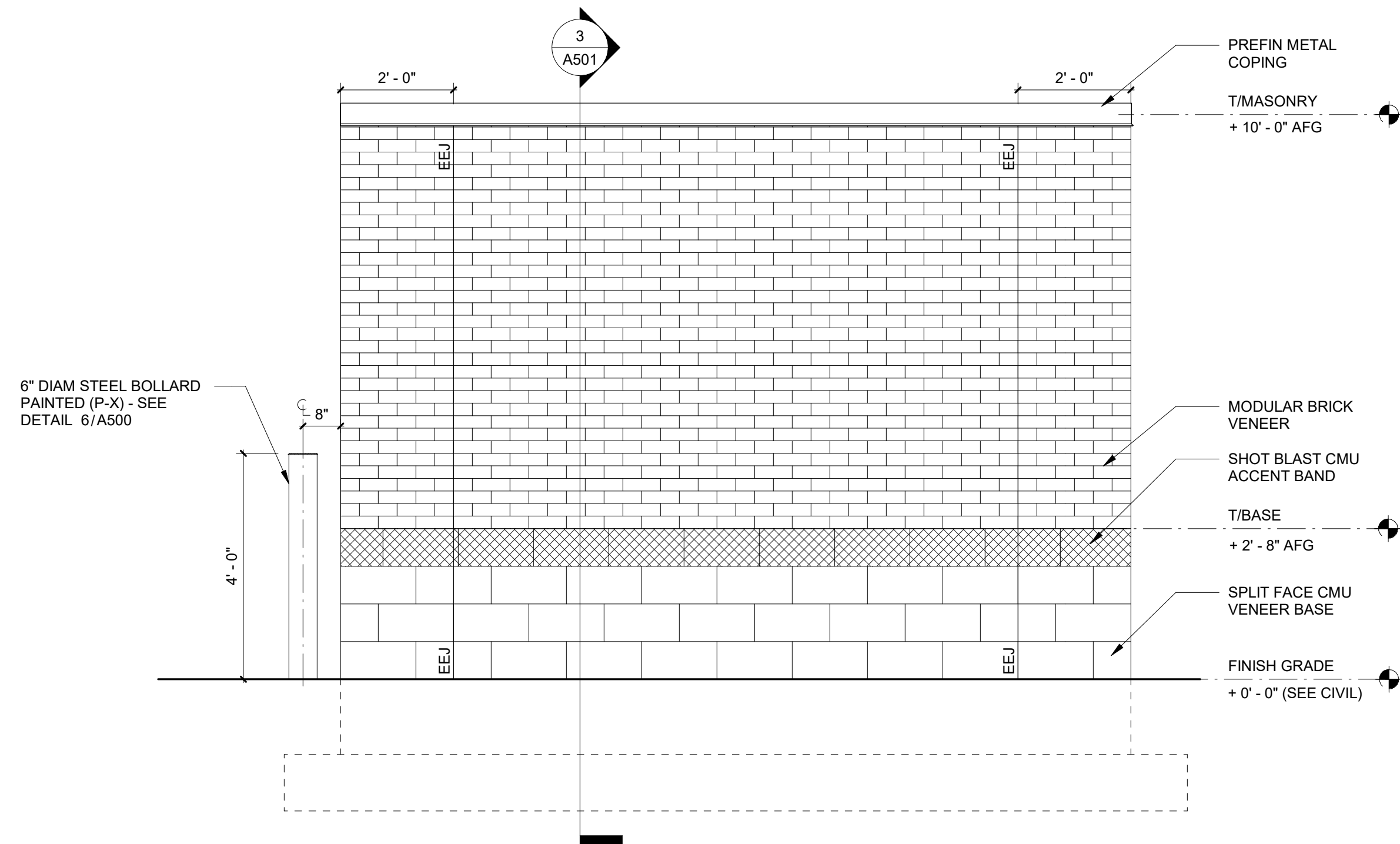
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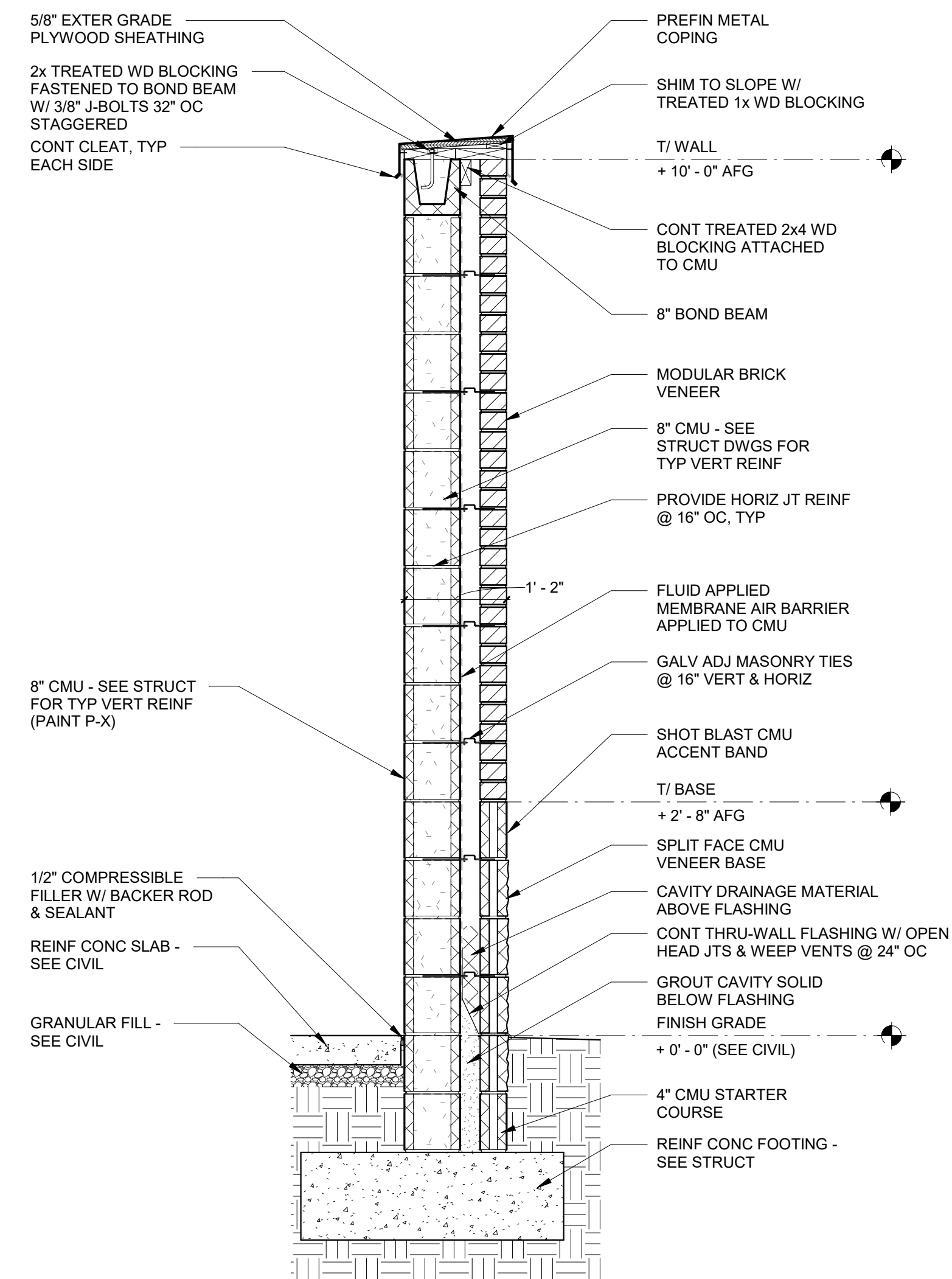
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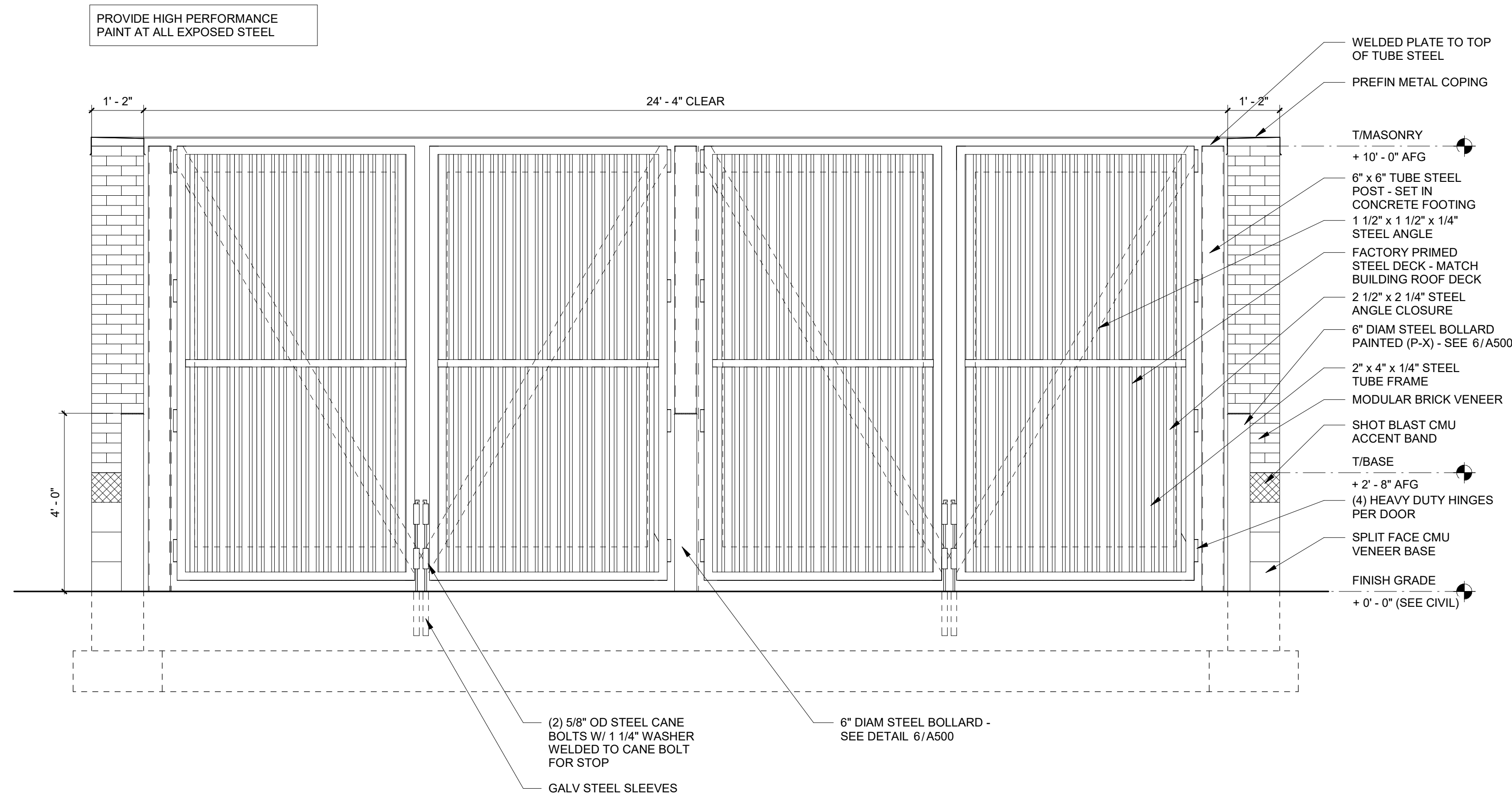
DUMPSTER ENCLOSURE REAR ELEVATION | 1/2" = 1'-0" 5



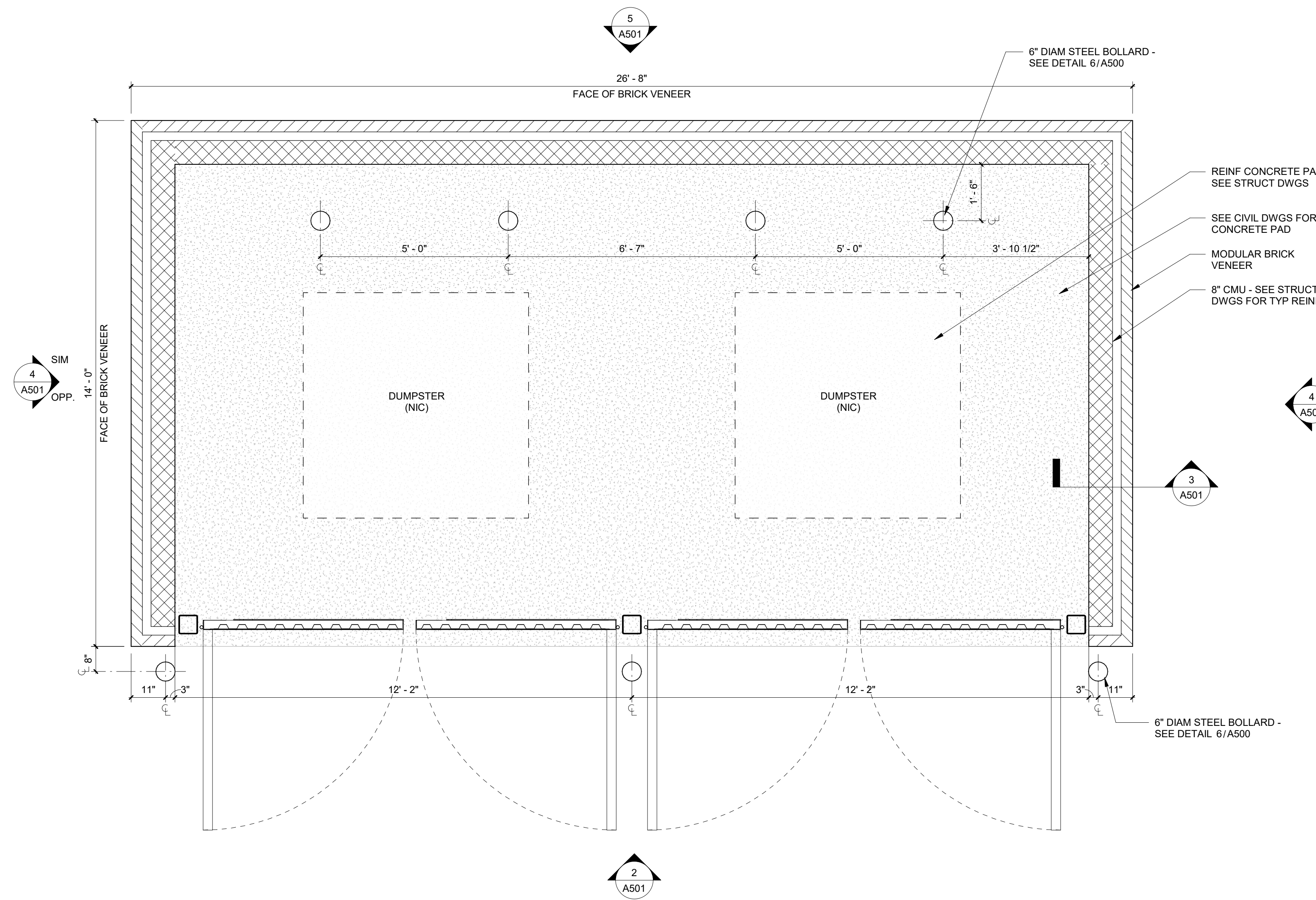
DUMPSTER ENCLOSURE SIDE ELEVATION | 1/2" = 1'-0" 4



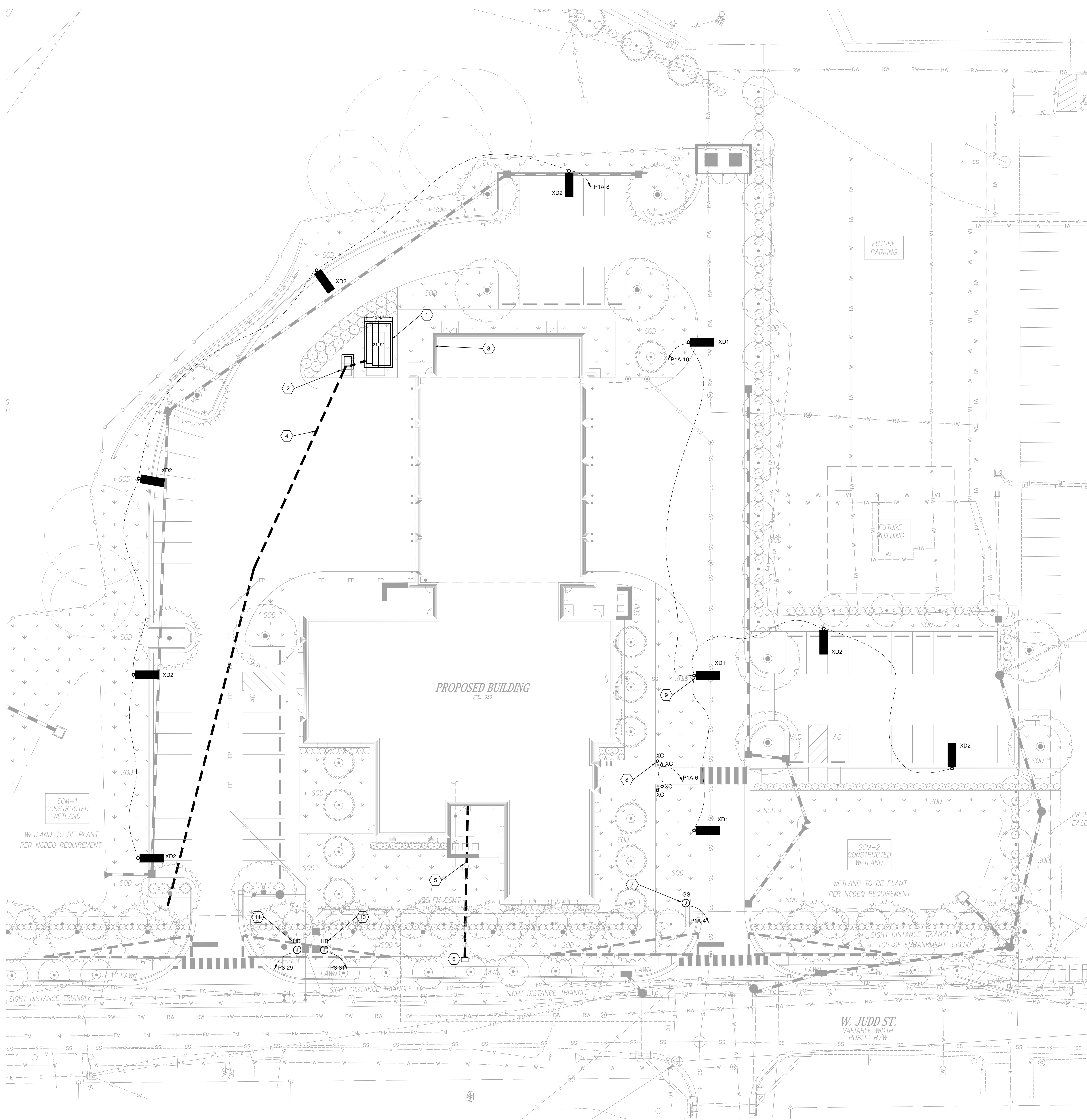
WALL SECTION @ DUMPSTER ENCLOSURE | 3/4" = 1'-0" 3



DUMPSTER GATE ELEVATION | 1/2" = 1'-0" 2



DUMPSTER ENCLOSURE | 1/2" = 1'-0" 1



GENERAL NOTES:

1. REFER TO SHEETS E101-E10X FOR SITE DETAILS.

NOTES KEYED TO 1/E100:

- 1 DIESEL GENERATOR, PAD AND PLATFORM.
- 2 UTILITY TRANSFORMER.
- 3 PROVIDE DUCTBANK FROM GENERATOR AND TRANSFORMER TO BUILDING MOUNTED ENCLOSED CIRCUIT BREAKERS. REFERENCE 1/E101 AND 3/E101 FOR DUCTBANK DETAILS.
- 4 PROVIDE 2-4" PVC CONDUITS AS REQUIRED BY DUKE PROGRESS FROM PRIMARY COMPARTMENT OF TRANSFORMER TO LOCATION DESIGNATED BY DUKE POWER REPRESENTATIVE.
- 5 PROVIDE T/C DUCTBANK PER DETAIL 2/E101.
- 6 TERMINATE DUCTBANK NOTED ABOVE AT ROAD IN 36"x24"x24" T15 RATED QUARTZITE HANDHOLE PER DETAIL 4/E101.
- 7 POWER FOR GROUND SIGN. PROVIDE 20 AMPERE WP DISC. AT SIGN IF NOT PROVIDED INTERNALLY. IN ADDITION, PROVIDE 2-1" SPARE PVC CONCRETE ENCASED SPARE CONDUITS TO WITHIN 24" OF SIGN.
- 8 PROVIDE IN-GROUND MOUNTED LIGHTING FOR FLAG POLES PER THE SCHEDULE, SHEET E002. TYPICAL.
- 9 PROVIDE POLE MOUNTED LIGHTING PER THE SCHEDULE, SHEET E002 AND POLE BASE PER 5/E101. TYPICAL.
- 10 DOMESTIC WATER HOT BOX.
- 11 FIRE PROTECTION HOT BOX. IN ADDITION TO POWER CIRCUIT, MONITOR TAMPER AND TEMPERATURE PER THE FA-SERIES DRAWINGS.

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ZEBULON FIRE
DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597



95% Construction Documents

ELECTRICAL SITE PLAN

DATE: 04.07.2025
PROJECT NO: 19073

REVISIONS		
NO:	DATE:	DESCRIPTION:

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