

TRINITY COURT AFFORDABLE HOUSING ZONING COMPLIANCE PERMIT

CHAPEL HILL - TRINITY COURT 751 TRINITY CT, CHAPEL HILL, NC 27516



VICINITY MAP
NOT TO SCALE

C - SERIES DRAWING ABBREVIATIONS:

- | | |
|---|----------------------------------|
| ADV - ADVANCE | MIN - MINIMUM |
| AFG - ABOVE FINISHED GRADE | MIN S - MINIMUM SLOPE |
| APPR LOC - APPROXIMATE LOCATION | MJ - MECHANICAL JOINT |
| ASSY - ASSEMBLY | NIC - NOT IN CONTRACT |
| B/C - BACK OF CURB | NTS - NOT TO SCALE |
| B/L - BASE LINE | OHE - OVERHEAD ELECTRIC |
| B/S - BOTTOM OF STAIR | OHP - OVERHEAD POWER |
| B/W - BOTTOM OF WALL | OHT - OVERHEAD TELEPHONE |
| CB - CATCH BASIN | PB - PLAT BOOK |
| CBR - CALIFORNIA BEARING RATIO | PC - POINT OF CURVATURE |
| CG - CURB AND GUTTER | PED - PEDESTAL |
| CI - CURB INLET | PG - PAGE |
| C/L - CENTERLINE | PH - PHASE |
| CL - CLASS | PI - POINT OF INTERSECTION |
| CM - CONCRETE MONUMENT | PKG - PARKING |
| CMP - CORRUGATED METAL PIPE | P/L - PROPERTY LINE |
| CO - CLEAN OUT | PT - POINT OF TANGENT |
| CONC - CONCRETE | PP - POWER POLE |
| CONN - CONNECTION | PVC - POLYVINYL CHLORIDE |
| CP - CORRUGATED PLASTIC | PVMT - PAVEMENT |
| CY - CUBIC YARD | PWR - POWER |
| DB - DEED BOOK | (R) - RECORDED METES & BOUNDS |
| DI - DROP INLET | RD - ROOF DRAIN |
| DIP - DUCTILE IRON PIPE | RJ - RESTRAINED JOINT |
| D.M.P. - DOUBLE MERIDIAN DISTANCES | R/W - RIGHT-OF-WAY |
| DR - DRIVE | REQ'D - REQUIRED |
| DS - DOWNSPOUT | RCP - REINFORCED CONCRETE PIPE |
| E - ELECTRIC | S - SLOPE |
| EA - EACH | SAN - SANITARY SEWER |
| E BOX - ELECTRICAL BOX | SDWK - SIDEWALK |
| ELEC - ELECTRIC | SF - SILT FENCE |
| EP - EDGE OF PAVEMENT | SPT - SPOT GRADE |
| E/S - EDGE OF SHOULDER | SS - SANITARY SEWER CONNECTION |
| EX - EXISTING | STA - STATION |
| F/C - FACE OF CURB | STD - STANDARD |
| FDC - FIRE DEPARTMENT CONNECTION | STM - STORM |
| FF - FINISHED FLOOR | STMH - STORM SEWER MANHOLE |
| FHY - FIRE HYDRANT | T - TELEPHONE |
| F/L - FLOW LINE | TBC - TOP BACK OF CURB |
| FL - FIRE LANE | TCM - TELECOMMUNICATIONS MANHOLE |
| G - GAS | TIC - TOP OF CURB |
| MG - GAS METER | TEL - TELEPHONE |
| GI - GRATE INLET | T/S - TOP OF STAIR |
| GRND - GROUND | T/W - TOP OF WALL |
| GTS - GAS TEST STATION | UGE - UNDERGROUND ELECTRIC |
| GV - GAS VALVE | UNK - UNKNOWN |
| HDPE - HIGH DENSITY POLYETHYLENE | UP - UTILITY POLE |
| HORIZ - HORIZONTAL | VAR - VARIABLE |
| HVAC - HEATING, VENTILATION, & AIR CONDITIONING | VCP - VITRIFIED CLAY PIPE |
| INV - INVERT | VERT - VERTICAL |
| IPF - IRON PIPE FOUND | W/ - WITH |
| IPS - IRON PIPE SET | WL - WATER LINE |
| IRF - IRON ROD FOUND | W - WATER |
| LSA - LANDSCAPED AREA | WUS - WATERS OF THE US |
| LF - LINEAR FEET | X-ING - CROSSING |
| LP - LIGHT POLE | YI - YARD INLET |
| (M) - MEASURED METES & BOUNDS | Ø - DIAMETER |
| MECH - MECHANICAL | |
| MH - MANHOLE | |

Sheet List Table

Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	AREA MAP
C1.0	EXISTING CONDITIONS & DEMOLITION
C2.0	PHASE I EROSION & SEDIMENT CONTROL PLAN
C2.1	PHASE II EROSION & SEDIMENT CONTROL PLAN
C2.2	PHASE III EROSION & SEDIMENT CONTROL PLAN
C2.3	EROSION CONTROL NOTES AND DETAILS
C2.4	EROSION CONTROL NOTES AND DETAILS
C3.0	SITE PLAN
C3.1	UTILITY PLAN
C3.2	WATER LINE PROFILES
C3.3	SOLID WASTE MANAGEMENT PLAN
C4.0	GRADING AND DRAINAGE PLAN
C4.1	STEEP SLOPE PLAN
C4.2	STORMWATER MANAGEMENT PLAN
C4.3	STORM PROFILES
C4.4	STORM PROFILES
C4.5	DRAINAGE AREA PLAN
C5.0	NOTES AND DETAILS
C5.1	NOTES AND DETAILS
C5.2	NOTES AND DETAILS
C5.3	NOTES AND DETAILS
C5.4	NOTES AND DETAILS
L1.0	LANDSCAPE PROTECTION PLAN
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE DETAILS
E1.0	LIGHTING PLAN

LEGEND

<p>SEWER</p> <p>8" SAN - EXISTING SANITARY SEWER</p> <p>8" SAN - SANITARY SEWER</p> <p>1 N 7605.80 E 9378.25 - SANITARY MANHOLE NUMBER W/ COORDINATE LOCATION</p> <p>○ - EX SANITARY MANHOLE</p> <p>⊙ - SANITARY MANHOLE</p> <p>○ - EXISTING CLEAN OUT</p> <p>⊕ - CLEAN OUT</p> <p>WATER</p> <p>8" W - EXISTING WATER LINE</p> <p>8" W - WATER LINE</p> <p>⊗ - EXISTING WATER VALVE</p> <p>⊗ - WATER VALVE</p> <p>⊕ - POST INDICATOR VALVE</p> <p>◇ - EXISTING WATER METER</p> <p>⊕ - WATER METER</p> <p>⊕ - EXISTING FIRE HYDRANT</p> <p>⊕ - FIRE HYDRANT</p> <p>▶ - WATER LINE REDUCER</p> <p>⊕ - EX WATER LINE PLUG</p> <p>⊕ - WATER LINE PLUG</p> <p>⊕ - WATER LINE CROSS</p> <p>⊕ - WATER LINE TEE</p> <p>⊕ - FIRE DEPT CONNECTION</p> <p>⊕ - WATER SPIGOT</p> <p>⊕ - EXISTING WELL CASING</p> <p>NATURAL GAS</p> <p>⊕ - EXISTING GAS METER</p> <p>⊕ - EXISTING GAS VALVE</p> <p>⊕ - EXISTING GAS LINE</p> <p>⊕ - GAS LINE</p>	<p>MISCELLANEOUS UTILITIES</p> <p>○ - EXISTING LIGHT POLE</p> <p>☆ - EXISTING YARD LIGHT</p> <p>⊕ - EXISTING GROUND LIGHT</p> <p>⊕ - LIGHT POLES</p> <p>⊕ - EXISTING UTILITY POLE</p> <p>⊕ - UTILITY POLE</p> <p>⊕ - EXISTING GUY WIRE</p> <p>⊕ - EXISTING ELECTRIC METER</p> <p>--- OHP --- EXISTING OVERHEAD ELECTRIC</p> <p>--- OHP --- OVERHEAD ELECTRIC</p> <p>--- UGP --- EX UNDERGROUND ELECT LINE</p> <p>--- UGP --- UNDERGROUND ELECTRIC LINE</p> <p>⊕ - EXISTING TELEPHONE PEDESTAL</p> <p>⊕ - EXISTING TELEPHONE MANHOLE</p> <p>--- OHT --- EX OVERHEAD TELEPHONE LINE</p> <p>--- OHT --- OVERHEAD TELEPHONE LINE</p> <p>--- UGT --- EX UNDERGROUND TELEPHONE LINE</p> <p>--- UGT --- UNDERGROUND TELEPHONE LINE</p> <p>--- OFO --- EX OVERHEAD FIBER OPTIC LINE</p> <p>--- OFO --- OVERHEAD FIBER OPTIC LINE</p> <p>--- UFO --- EX UNDERGROUND FIBER OPTIC LINE</p> <p>--- UFO --- UNDERGROUND FIBER OPTIC LINE</p> <p>⊕ - EX CABLE TV PEDESTAL</p> <p>--- OCATV --- EX OVERHEAD CABLE TV LINE</p> <p>--- OCATV --- OVERHEAD CABLE TV LINE</p> <p>--- UCATV --- EX UNDERGROUND CABLE TV</p> <p>--- UCATV --- UNDERGROUND CABLE TV LINE</p> <p>--- UG P/C --- COMBINED POWER/CATV</p> <p>--- UG P/C --- COMBINED POWER, TELE, CATV</p> <p>--- UG P/C --- COMBINED POWER, TELEPHONE</p> <p>--- UG P/C --- COMBINED TELEPHONE, CATV</p>	<p>SITE</p> <p>----- EXISTING STORM SEWER</p> <p>----- STORM SEWER</p> <p>□ - EX DROP INLET</p> <p>□ - DROP INLET & STRUCTURE NUMBER</p> <p>⊕ - EXISTING STORM SEWER MANHOLE</p> <p>⊕ - STORM SEWER MANHOLE</p> <p>□ - EXISTING ROOF DRAIN DOWNSPOUT</p> <p>□ - ROOF DRAIN DOWNSPOUT</p> <p>----- EXISTING CURB</p> <p>----- CURB</p> <p>===== EXISTING CURB & GUTTER</p> <p>===== CURB & CUTTER</p> <p>----- PROPERTY LINE</p> <p>⊕ - BENCH MARK</p> <p>⊕ - APPROX BORING LOCATION</p> <p>----- EXISTING TREE LINE</p> <p>----- CLEARING LIMITS</p> <p>----- EXISTING SHRUB</p> <p>----- EXISTING TREE</p> <p>----- EXISTING FENCE</p> <p>----- FENCE</p> <p>----- EXISTING CONTOUR</p> <p>----- CONTOUR</p> <p>⊕ - SPOT ELEVATION</p> <p>----- C/L SWALE</p> <p>----- EXISTING SIGN</p> <p>----- SIGN</p> <p>● - BOLLARD</p> <p>----- FLAG POLE</p> <p>----- PROPERTY MARKER FOUND / ROD FOUND</p> <p>----- PIPE FOUND</p> <p>----- MONUMENT FOUND</p>
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TIMMONS GROUP
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RALEIGH, NORTH CAROLINA 27607
CONTACT: MR. WILL ALTMAN
PHONE: (919) 866-4938
FACSIMILE: (919) 859-5663

SITE DATA TABLE	
PROJECT NAME:	TRINITY COURT
PROJECT ADDRESS:	751 TRINITY COURT CHAPEL HILL, NC
TOTAL ACREAGE:	3.23 ACRES (140,782 SQFT)
PIN NUMBER:	9788194511
ZONING:	R-SS-CZD
USE:	AFFORDABLE HOUSING; MEDIUM DENSITY RESIDENTIAL
NET LAND AREA (NLA):	140,782 SQFT
GROSS LAND AREA (GLA):	140,782 SQFT
PROPOSED FLOOR AREA:	66,488 SQFT
MAX FLOOR AREA ALLOWED:	125,588 SQFT
PASSIVE RECREATION AREA:	1,422 SQFT
ACTIVE RECREATION AREA:	2,252 SQFT
ONSITE IMPERVIOUS AREA EXISTING:	1.29 ± ACRES (56,192 SF)
ONSITE IMPERVIOUS PROPOSED:	1.33 ± ACRES (57,935 SF)
TOTAL DISTURBED AREA:	2.17 ± ACRES (94,806 SF)
REQUIRED PARKING:	1 SPACE PER (1) BEDROOM DWELLING UNIT 1.25 SPACE PER (2) BEDROOM DWELLING UNIT 1.5 SPACE PER (3) BEDROOM DWELLING UNIT
REQUIRED VEHICLE PARKING:	1 PARKING SPACE X 14 (1) BEDROOM DWELLING UNITS 1.4 PARKING SPACE X 20 (2) BEDROOM DWELLING UNITS 1.75 PARKING SPACE X 20 (3) BEDROOM DWELLING UNITS = MINIMUM 77 PARKING SPACES
PROVIDED VEHICLE PARKING:	62 VEHICLE PARKING SPACES PROVIDED; (9 ACCESSIBLE SPACES PROVIDED); *MODIFICATION APPROVED FOR TOTAL PARKING

REQUIRED BICYCLE PARKING:	MINIMUM OF 1 PER 4 DWELLING UNITS 1 BICYCLE SPACE X 5414 DWELLING UNITS = MINIMUM 14 BICYCLE SPACES
PROVIDED BICYCLE PARKING:	14 BICYCLE PARKING SPACES PROVIDED; *MODIFICATION APPROVED FOR BICYCLE PARKING TO BE CLASS II
RCD ENCROACHMENT	
STREAM SIDE BUFFER ONSITE	24,584 SQFT
LAND DISTURBANCE IN BUFFER	2,914 SQFT
EXISTING IMPERVIOUS WITHIN BUFFER TO REMAIN	2,850 SQFT
PROPOSED IMPERVIOUS WITHIN BUFFER	180 SQFT
TOTAL IMPERVIOUS WITHIN BUFFER	3,030 SQFT

LANDUSE BREAKDOWN		
DESCRIPTION	PRE IMPERVIOUS AREA (SQFT)	POST IMPERVIOUS AREA (SQFT)
BUILDINGS	16,810	19,159
PAVEMENT	22,074	26,146
SIDEWALKS	11,683	5,640
MISCELLANEOUS (CURBS, AMENITY AREA, DUMPSTER PADS, ETC.)	5,625	6,990
TOTAL ONSITE IMPERVIOUS	56,192	57,935

RECREATION AREA BREAKDOWN		
DESCRIPTION	ACTIVE	PASSIVE
PLAYGROUND AND TOT LOT	2,252	
PICNIC AREA		150
BENCHES		72
INTERIOR (GATHERING/MULTI PURPOSE ROOM & COMPUTER ROOM)		1,200
TOTAL RECREATION AREA	3,674	
FEE IN LIEU	((REQUIRED PROVIDED MULTIPLIER)*25 (7,039-3,674) 0.218*25= \$18,339.25 MODIFICATION HAS BEEN APPROVED TO WAIVE THE FEE IN LIEU	

Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

PROJECT NO: 48833
DATE: DECEMBER 1, 2022

DATE	REVISIONS	DESCRIPTION

COVER SHEET

C0.0



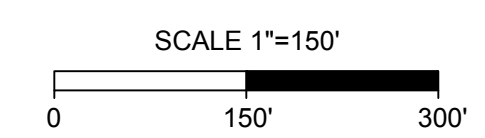
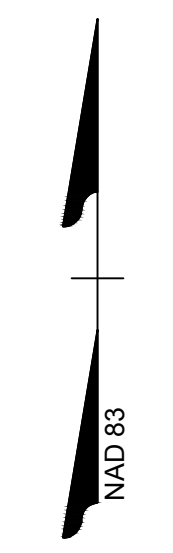
LOCATION MAP

NOT TO SCALE
 PARCEL IDENTIFICATION NUMBER (PIN): 9788194511
 ADDRESS: 751 TRINITY CT, CHAPEL HILL, NC 27516

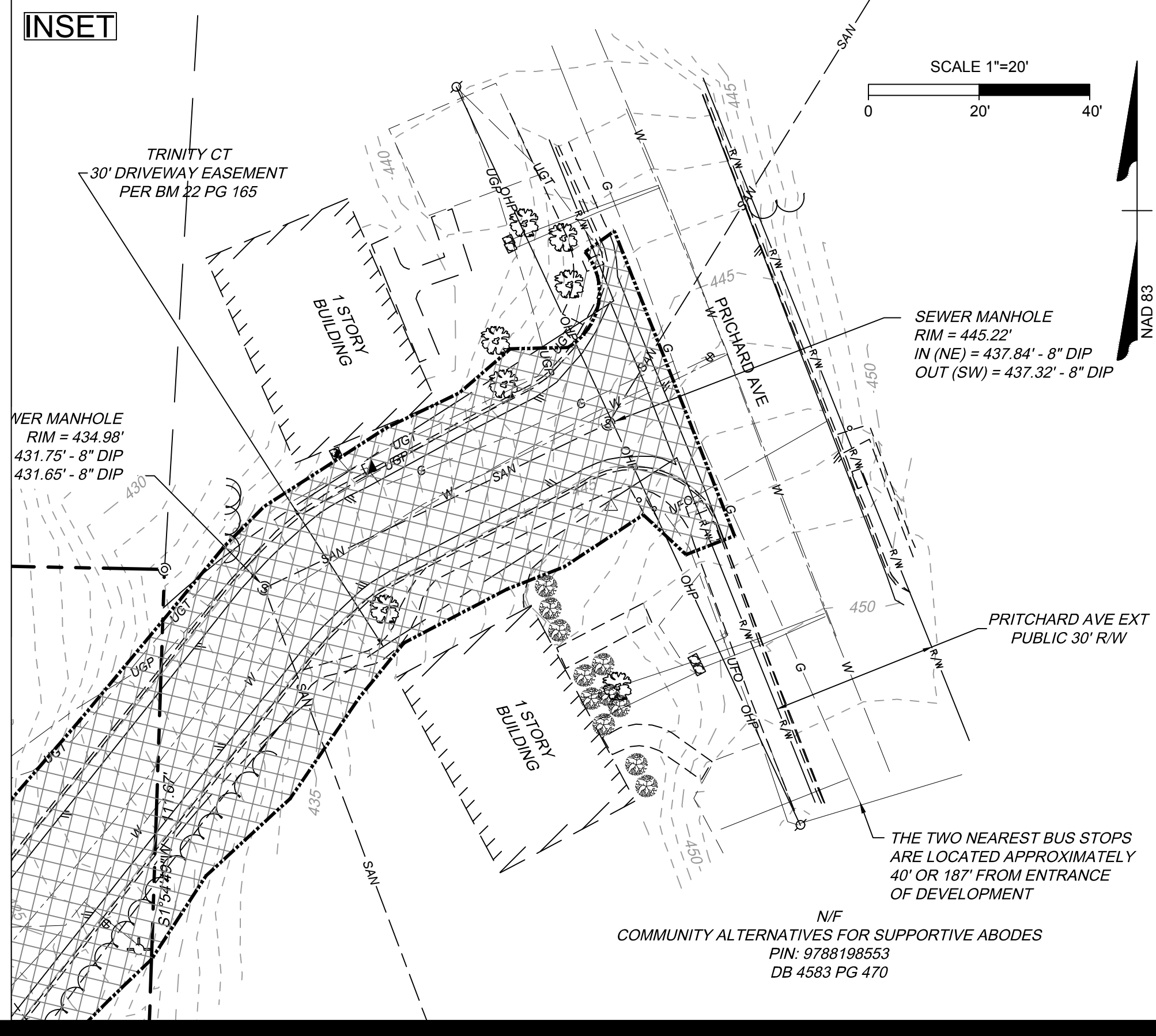
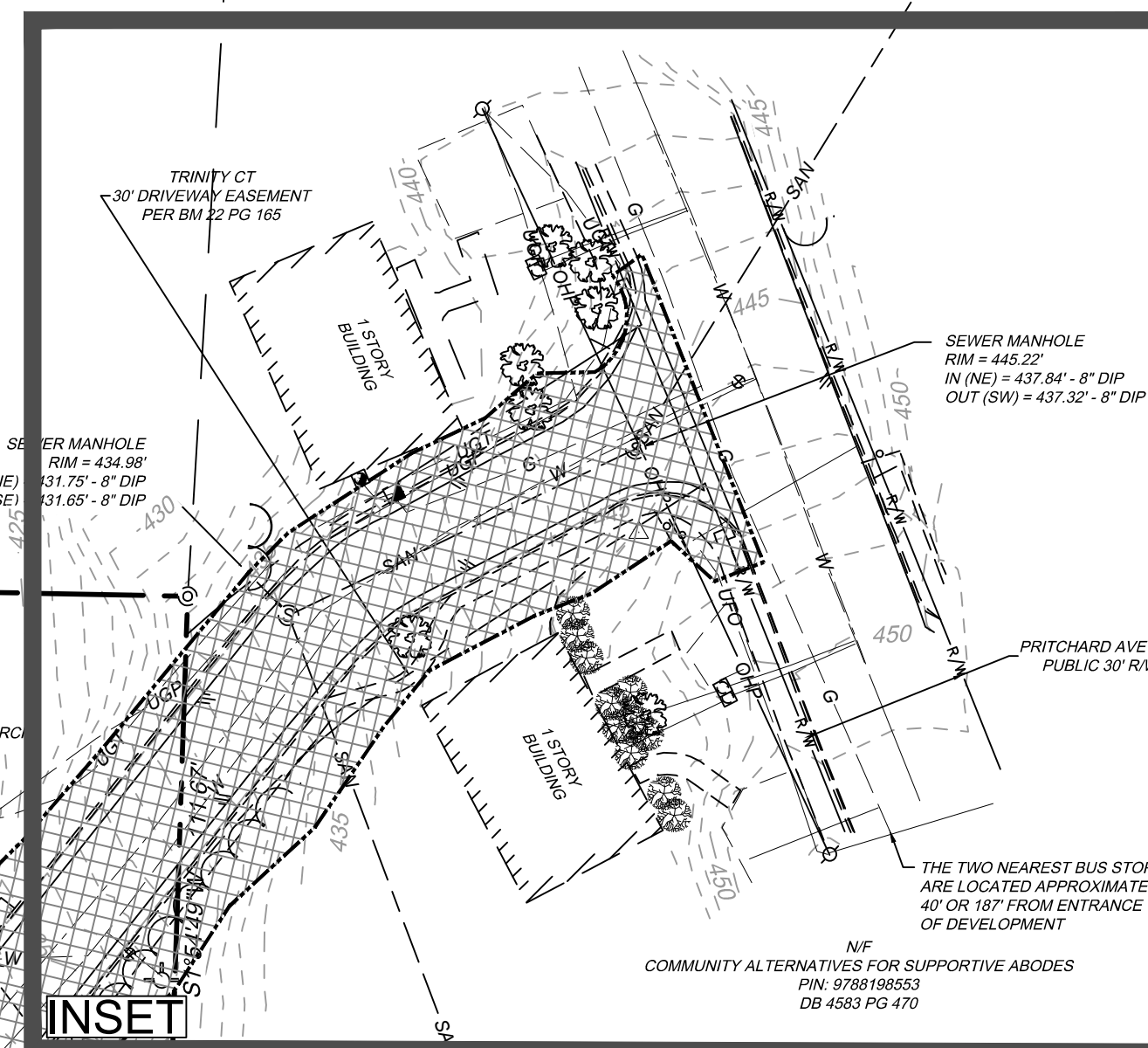
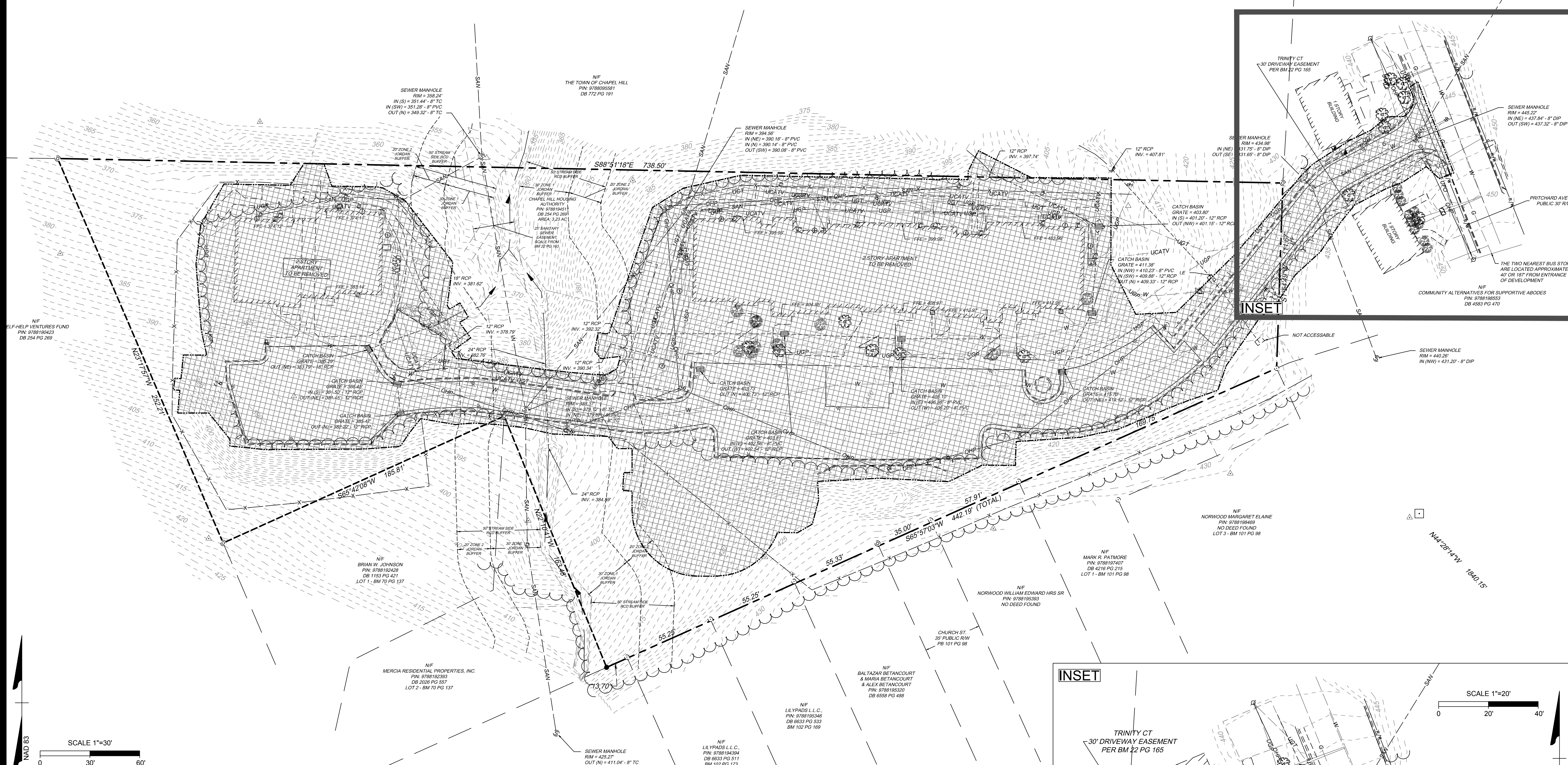
LEGEND

	PROPOSED SITE PROPERTY LINE
	ZONING BOUNDARY
	CHAPEL HILL TOWN LIMITS
	NORTHSIDE OVERLAY ZONING DISTRICT
	1000' NOTIFICATION AREA
	PROPOSED SITE
	CHAPEL HILL TRANSIT BUS STOP

NOTES:
 1. ENTIRETY OF SITE AREA IS LOCATED WITHIN CHAPEL HILL'S TOWN LIMIT.

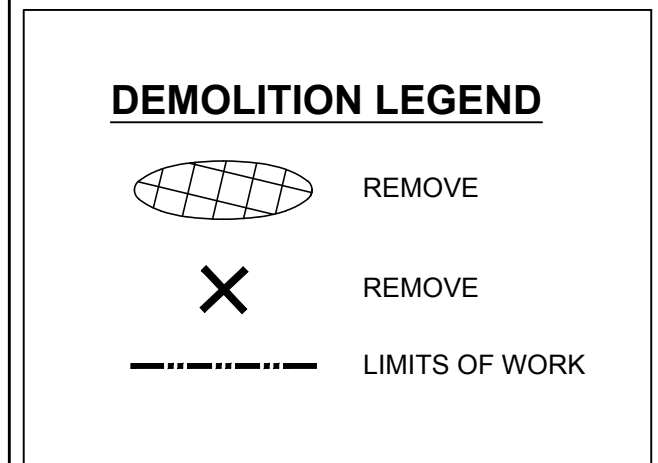


PROJECT NO:	48833
DATE:	DECEMBER 1, 2022
REVISIONS	
DATE	DESCRIPTION



LEGEND

● IPF - IRON PIPE FOUND	⊙ MH DRAINAGE	⊠ SPRINKLER BOX
● IRF - IRON ROD FOUND	⊙ MH SANITARY	⊠ SPRINKLER HEAD
● CP - COMPUTED BOUNDARY POINT	⊙ MH ELECTRIC	⊠ SPRINKLER VALVE
● CP - COMPUTED EASEMENT POINT	⊙ MH TELEPHONE	⊠ GAS TEST LOCATION
■ CMF - CONCRETE MONUMENT	⊙ MH WATER	⊠ GAS METER
■ MNF - MAG NAIL FOUND	⊙ ELECTRIC BOX	⊠ GAS VALVE
■ RSF - RAILROAD SPIKE FOUND	⊙ TELEPHONE PEDESTAL	⊠ FLAG POLE
■ CSF - COTTON SPINDLE FOUND	⊙ TELEPHONE VAULT	⊠ TREE
⊠ BACKFLOW PREVENTER	⊙ SIGN	⊠ BOLLARD
⊠ WATER VAULT	⊙ ELECTRIC METER	⊠ BOREHOLE
⊠ TELEPHONE VAULT	⊙ WATER METER	⊠ AC UNIT
⊠ TRAFFIC CONTROL BOX	⊙ WATER VALVE	⊠ MAILBOX
⊠ POWER VAULT	⊙ FIRE HYDRANT	⊠ CLEAN OUT
⊠ UTILITY VAULT	⊙ POWER POLE	⊠ GUY
○ WF - WETLAND FLAG	⊙ FIRE HYDRANT	⊠ WELL
○ RF - REINFORCED CONCRETE PIPE	⊙ LIGHT POLE	⊠ MONITORING WELL
○ CMF - CORRUGATED METAL PIPE	⊙ YARD LIGHT	⊠ ROOF DRAIN
○ VCP - VITRIFIED CLAY PIPE	⊙ GROUND LAMP	⊠ WATER SPIGOT
○ DIP - DUCTILE IRON PIPE	⊙ HVAC - HEATING, VENTILATION AND AIR CONDITIONING	⊠ LEAD LINE
○ HDPE - HIGH DENSITY POLYETHYLENE PIPE	⊠ LSA - LANDSCAPED AREA	⊠ LINE NOT SURVEYED
○ FES - FLARED END SECTION	⊠ R/W - RIGHT-OF-WAY	⊠ STORM LINE
○ MKF - FIBER OPTIC MARKER	⊠ P/L - PROPERTY LINE	⊠ SANITARY LINE
○ MKG - GAS MARKER	⊠ C/L - CENTERLINE	⊠ FENCE
○ TYP - TELEVISION PEDESTAL	⊠ NTS - NOT TO SCALE	⊠ OVERHEAD POWER LINE
○ SIGP - SIGNAL POLE	⊠ OB - GAS VALVE	⊠ PAINTED GAS LINE
⊠ HVAC - HEATING, VENTILATION AND AIR CONDITIONING	⊠ GI - GRATE INLET	⊠ PAINTED POWER LINE
⊠ LSA - LANDSCAPED AREA	⊠ YI - YARD INLET	⊠ PAINTED STORM LINE
⊠ R/W - RIGHT-OF-WAY	⊠ CI - CURB INLET	⊠ PAINTED TELEPHONE LINE
⊠ P/L - PROPERTY LINE	⊠ EP - EDGE OF PAVING	⊠ PAINTED WATER LINE
⊠ C/L - CENTERLINE	⊠ TBC - TOP BACK OF CURB	⊠ EDGE OF TREETRINE
⊠ NTS - NOT TO SCALE	⊠ CCR - CHATHAM COUNTY RECORD	
⊠ OB - GAS VALVE	⊠ WCR - WAKE COUNTY RECORDS	
⊠ GI - GRATE INLET	⊠ DB - DEED BOOK	
⊠ YI - YARD INLET	⊠ PL - PAGE	
⊠ CI - CURB INLET	⊠ SF - SQUARE FEET	



SURVEY NOTES

- ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- THIS SURVEY DOES NOT REPRESENT A TITLE SEARCH BY THIS FIRM.
- BASIS OF BEARING SHOWN HEREON IS NTC GRID NAD 83 (NSRS 2007).
- VERTICAL DATUM SHOWN HEREON IS NAVD88.
- NOT LOCATED IN FLOOD HAZARD AREA PER FEMA MAP #3710978800K (EFFECTIVE 11/17/2017).
- EXISTING IMPERVIOUS AREA = 1.33 ACRES ON-SITE AND WITHIN LIMITS OF WORK.
- THE UTILITIES ON THESE PLANS ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES.

DEMOLITION NOTES:

- NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF UTILITY SERVICE INTERRUPTIONS TO NEIGHBORING PROPERTIES. UTILITIES ENCOUNTERED THAT ARE NOT INCLUDED WITHIN THE EXISTING CONDITIONS PLANS SHALL BE REMOVED OR RELOCATED PER THE OWNER, ARCHITECT AND UTILITY PROVIDERS DIRECTION.
- EVERYTHING WITHIN THE LIMITS OF DISTURBANCE SCHEDULED TO BE DEMOLISHED SHALL ONLY PROCEED AFTER ALL TREE PROTECTION FENCE AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED PER THE EROSION CONTROL PLAN. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT LAIDEN RUNOFF FROM EXITING THE SITE.**
- ALL TRASH AND MISCELLANEOUS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE AND COUNTY STANDARDS.
- OPEN BURNINGS OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DEVELOPMENT IS PROHIBITED.
- ALL EXISTING FIRE HYDRANTS TO REMAIN CLEAR AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL DEMOLITION REQUIRED WITHIN THE LIMITS OF WORK SHOWN THAT IS NEEDED FOR COMPLETION OF CONSTRUCTION.**
- REMOVE EXISTING ROAD STRIPING AND PAVEMENT MARKINGS**
- ASBESTOS IS PRESENT, REFER TO THE ATTACHED ASBESTOS SURVEYS. REMOVAL WILL BE SUBJECT TO AN ASBESTOS O&M PLAN.**

FIRE PROTECTION NOTES:

- PRIVATE FIRE SERVICE MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, 2018 NFCC SECTION 507.
- ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE OF THE CURRENT EDITION OF THE NC FIRE CODE, 2018 NFCC CHAPTER 33.
- DURING CONSTRUCTION AND DEMOLITION WHERE HOT WORK, MATERIALS SUBJECT TO SPONTANEOUS COMBUSTION, OR OTHER HAZARDOUS CONSTRUCTION OR DEMOLITION IS OCCURRING, THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING A FIRE WATCH. THE FIRE WATCH SHALL CONSIST OF AT LEAST ONE PERSON WITH A MEANS OF COMMUNICATING AN ALARM TO 911, SHALL HAVE A WRITTEN ADDRESS POSTED IN A CONSPICUOUS LOCATION, AND SHALL MAINTAIN CONSTANT PATROLS. 2018 NFCC SECTION 3304.5.
- FENCING AROUND PROJECTS SHALL INCLUDE ACCESS GATES WITH A 20 FOOT SWING OR SLIDE MOTION. ANY AREAS WHICH WILL BE INACCESSIBLE FOR FIREFIGHTING OR RESCUE OPERATIONS SHALL BE NOTED. EMERGENCY ACCESS DESIGNATION FOR APPARATUS SHALL BE PROVIDED. 2018 NFCC SECTION 503, APPENDIX D.
- DURING CONSTRUCTION, VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION ALLOWS THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF AN APPROVED SIZE, WEATHER RESISTANT, AND MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS. 2018 NFCC SECTION 505.2.
- TRAFFIC CALMING DEVICES SHALL BE PROHIBITED UNLESS APPROVED BY THE FIRE CODE OFFICIAL. 2018 NFCC 503.4.1.

TIMMONS GROUP
 YOUR VISION ACHIEVED THROUGH OURS.

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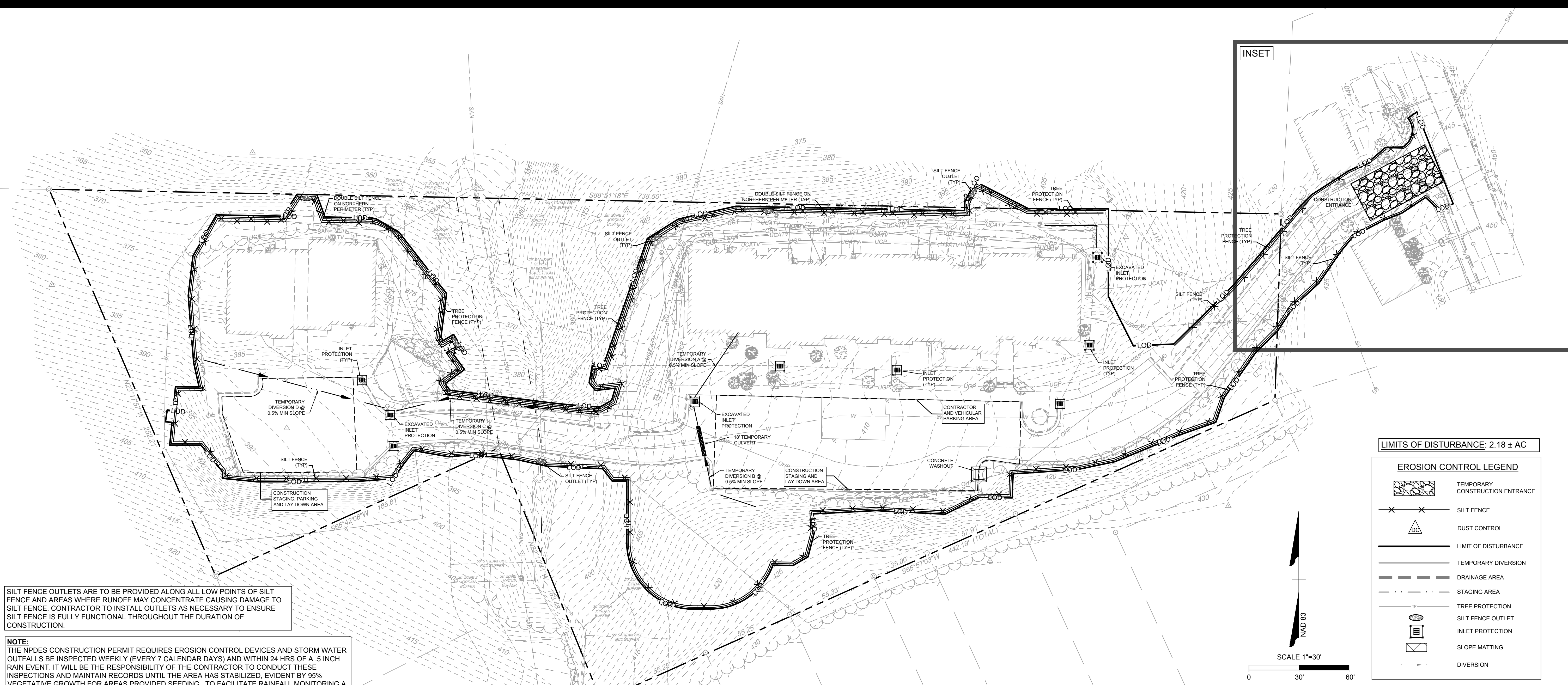
Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

PROJECT NO: 48832
 DATE: DECEMBER 1, 2022

DATE	REVISIONS	DESCRIPTION

EXISTING
 CONDITIONS &
 DEMOLITION

C1.0



SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

NOTE:
THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A 5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPs ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

- GENERAL EROSION AND SEDIMENT CONTROL NOTES:**
- ALL CONSTRUCTION SHALL COMPLY WITH NCDEQ STANDARDS AND SPECIFICATIONS.
 - A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
 - FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED.
 - FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
 - EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
 - VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
 - CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
 - ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEEP AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
 - INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
 - INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
 - PROVIDE ORANGE COUNTY WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO ORANGE COUNTY. THIS AREA MUST ALSO BE AN UPLAND AREA.

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:

- DENOTE THAT NCDEQ ESC, AND THE TOWN OF CHAPEL HILL STORMWATER DEPARTMENT SHOULD BE NOTIFIED PRIOR TO LAND DISTURBING ACTIVITY.
- A LAND DISTURBANCE PRE-CONSTRUCTION CONFERENCE IS MANDATORY BEFORE ANY WORK IS DONE AT THE SITE. ARRANGE A PRE-CONSTRUCTION MEETING WITH THE OWNER, OWNER'S ENGINEER, AND A REPRESENTATIVE FROM ORANGE COUNTY ENVIRONMENTAL SERVICES PRIOR TO LAND DISTURBING ACTIVITY. 48 HOURS NOTICE IS REQUIRED.
- INSTALL TREE PROTECTION, SILT FENCE AND SILT FENCE OUTLETS AS SHOWN ON PLANS. ANY SEDIMENT TRACKED ON THE ROAD AS A RESULT OF THE PROJECT AND TRAFFIC FROM THE PROJECT SHALL BE REMOVED DAILY BY THE CONTRACTOR. (MINIMUM STABILIZED CONSTRUCTION ENTRANCE LENGTH=50')
- INSTALL INLET PROTECTION ON EXISTING INLETS.
- INSTALL EXCAVATED INLET PROTECTION AND TEMPORARY DIVERSIONS AS SHOWN ON PLANS
- THE TOWN OF CHAPEL HILL ARBORIST, ADAM NICHOLSON, AND NCDEQ ESC MUST BE NOTIFIED AND INSPECT THE SITE PRIOR TO DEMOLITION
- BEGIN DEMOLITION OF EXISTING SITE FEATURES.
- ADJUST EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY FOR PROPER OPERATION. INSTALL ADDITIONAL EROSION CONTROL MEASURES IF DETERMINED NECESSARY BY NCDEQ.
- PROCEED TO PHASE II OF THE EROSION CONTROL SEQUENCE WHEN PHASE I MEASURES HAVE BEEN COMPLETED, INSPECTED, AND APPROVED BY NCDEQ.

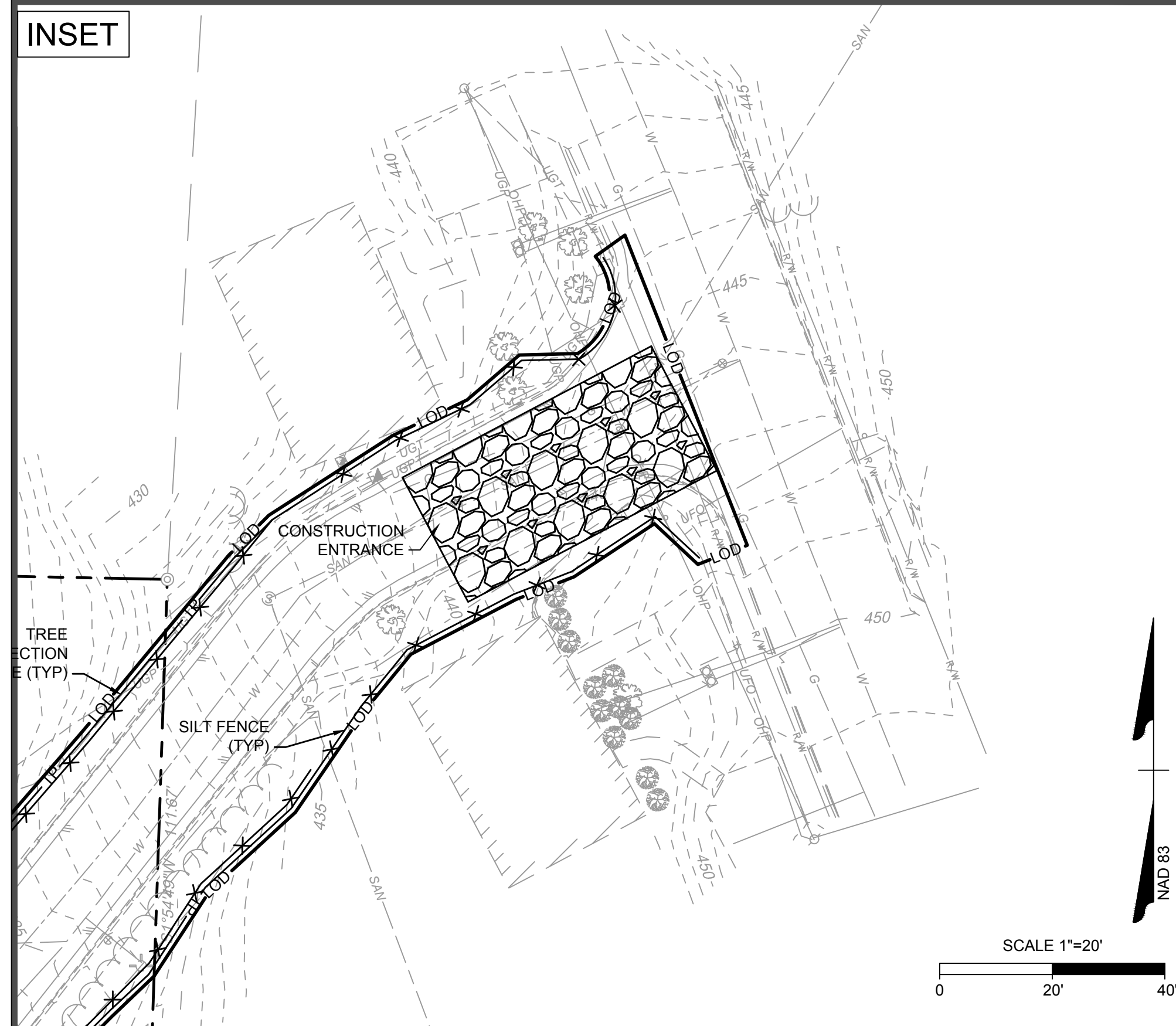
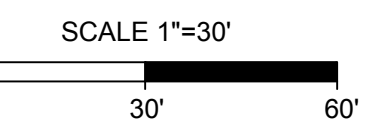
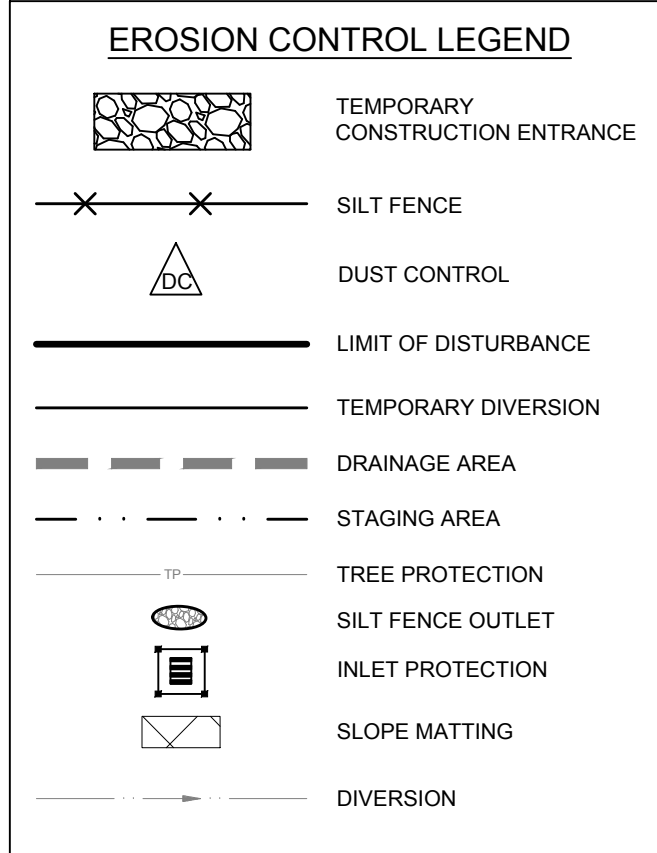
NPDES GROUND STABILIZATION:

- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM

- THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TAKE EFFECT OCTOBER 1, 2010.
- THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- EXCERPTS FROM THE NORTH CAROLINA GENERAL STATUTES AND THE NORTH CAROLINA ADMINISTRATIVE CODE CONCERNING SELF-INSPECTIONS ARE ENCLOSED. TO BETTER EXPLAIN THE REQUIREMENTS, A LIST OF FREQUENTLY ASKED QUESTIONS IS ALSO ENCLOSED, ALONG WITH A SELF-INSPECTION REPORT FORM. THE SELF-INSPECTION REPORT FORM WILL ALSO BE AVAILABLE AS AN EXCEL SPREADSHEET FROM THE LAND QUALITY WEB SITE. ([HTTP://DEQ.NC.GOV/ABOUT/DIVISIONS/ENERGY-MINERAL-LAND-RESOURCES/EROSION-SEDIMENT-CONTROL/FORMS](http://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms))
- PLEASE TAKE A MOMENT TO REVIEW THE ENCLOSED MATERIAL. IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT THE RALEIGH REGIONAL OFFICE.

LIMITS OF DISTURBANCE: 2.18 ± AC



Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC 27516

PROJECT NO: 48833
DATE: DECEMBER 1, 2022

REVISIONS	
DATE	DESCRIPTION

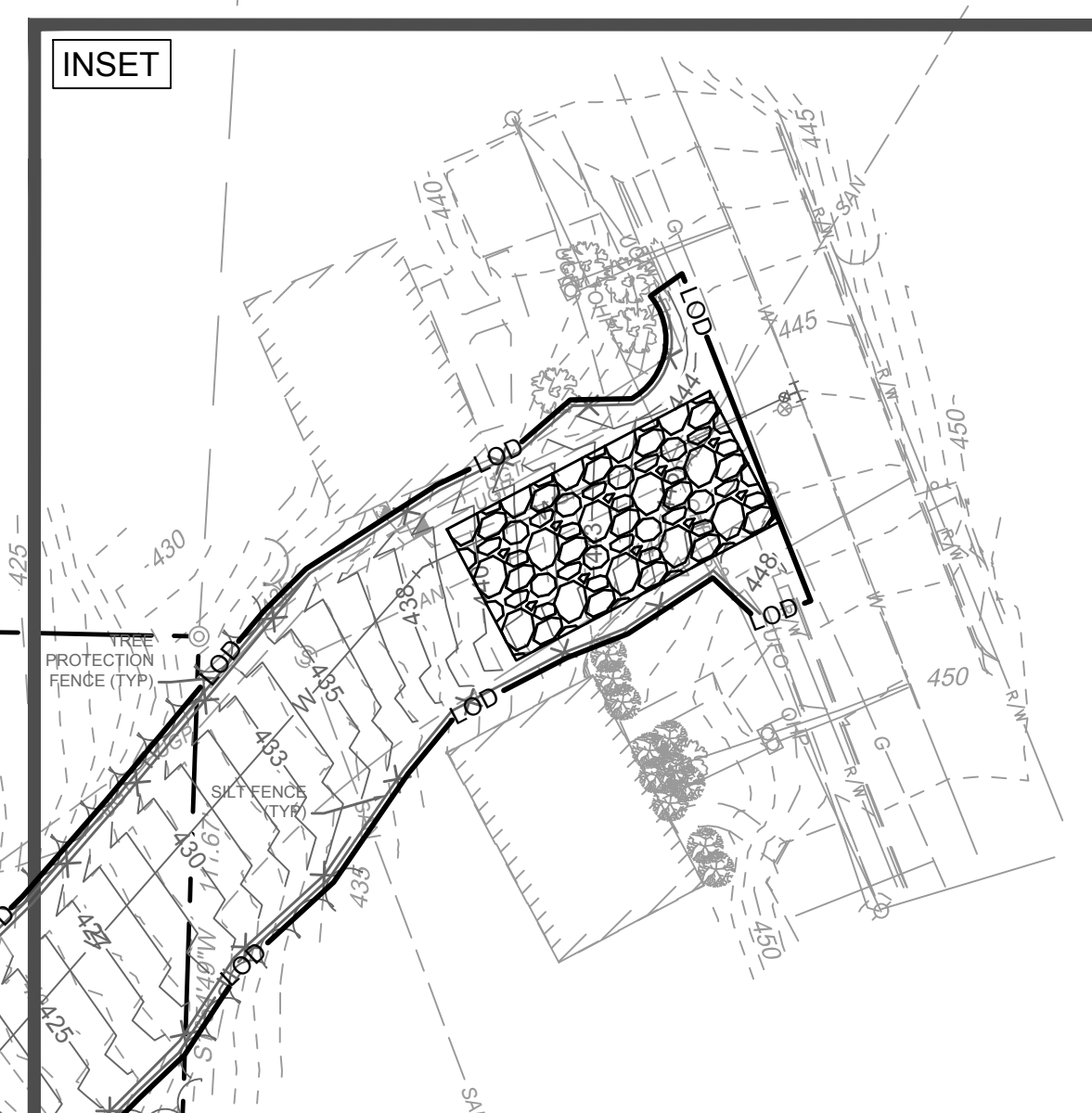
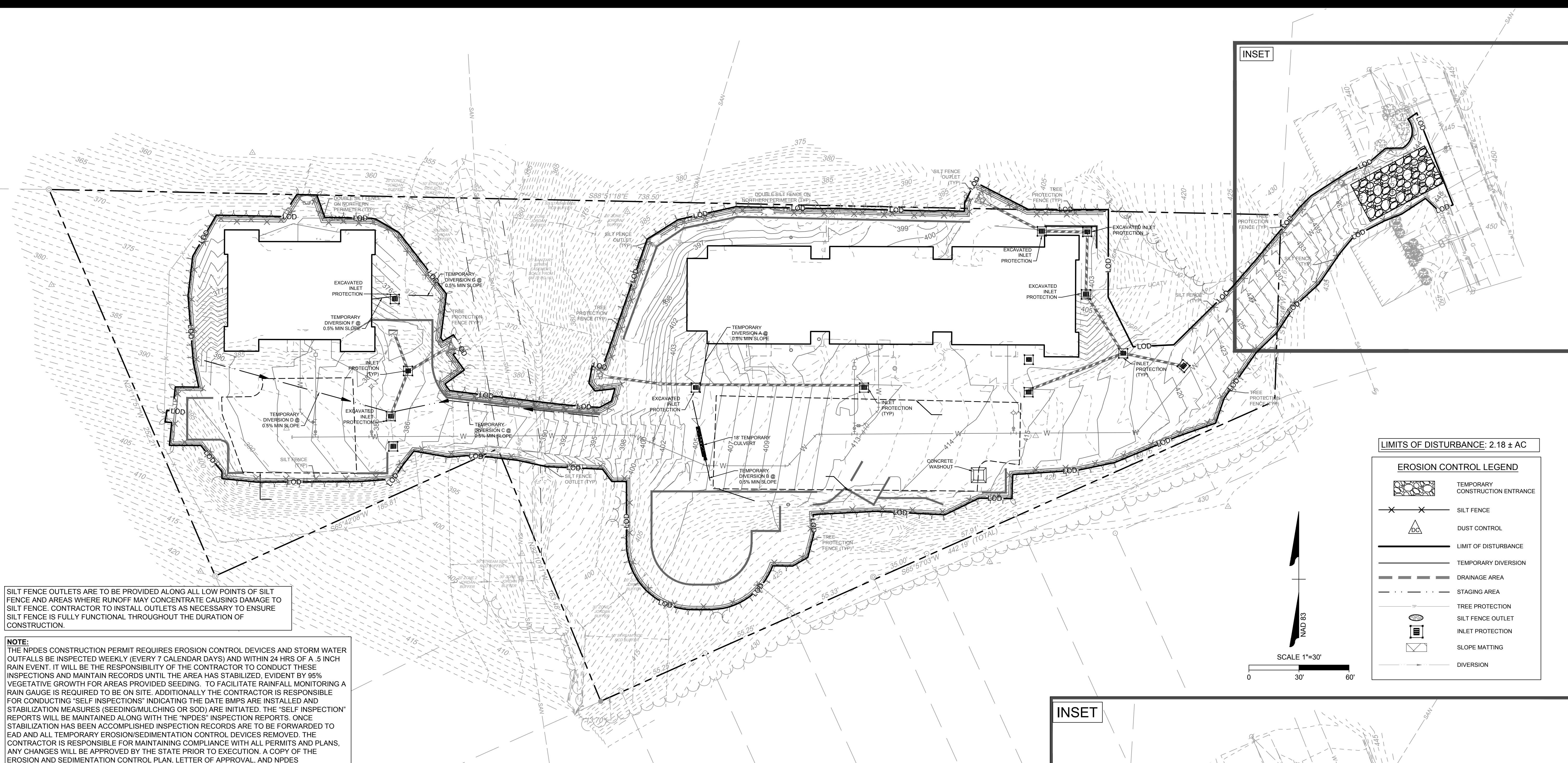
PHASE I EROSION & SEDIMENT CONTROL PLAN

C2.0

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

1115 HIGHWAY 101
RALEIGH, NC 27605
TEL: 919.866.4951
FAX: 919.866.5663
www.timmons.com

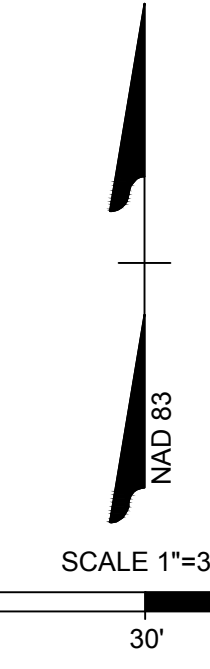
North Carolina License No. C-1652
Site Development/Residential/Infrastructure/Technology
#0032-033



LIMITS OF DISTURBANCE: 2.18 ± AC

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- SILT FENCE
- DUST CONTROL
- LIMIT OF DISTURBANCE
- TEMPORARY DIVERSION
- DRAINAGE AREA
- STAGING AREA
- TREE PROTECTION
- SILT FENCE OUTLET
- INLET PROTECTION
- SLOPE MATTING
- DIVERSION



SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

NOTE:
THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A 5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPs ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

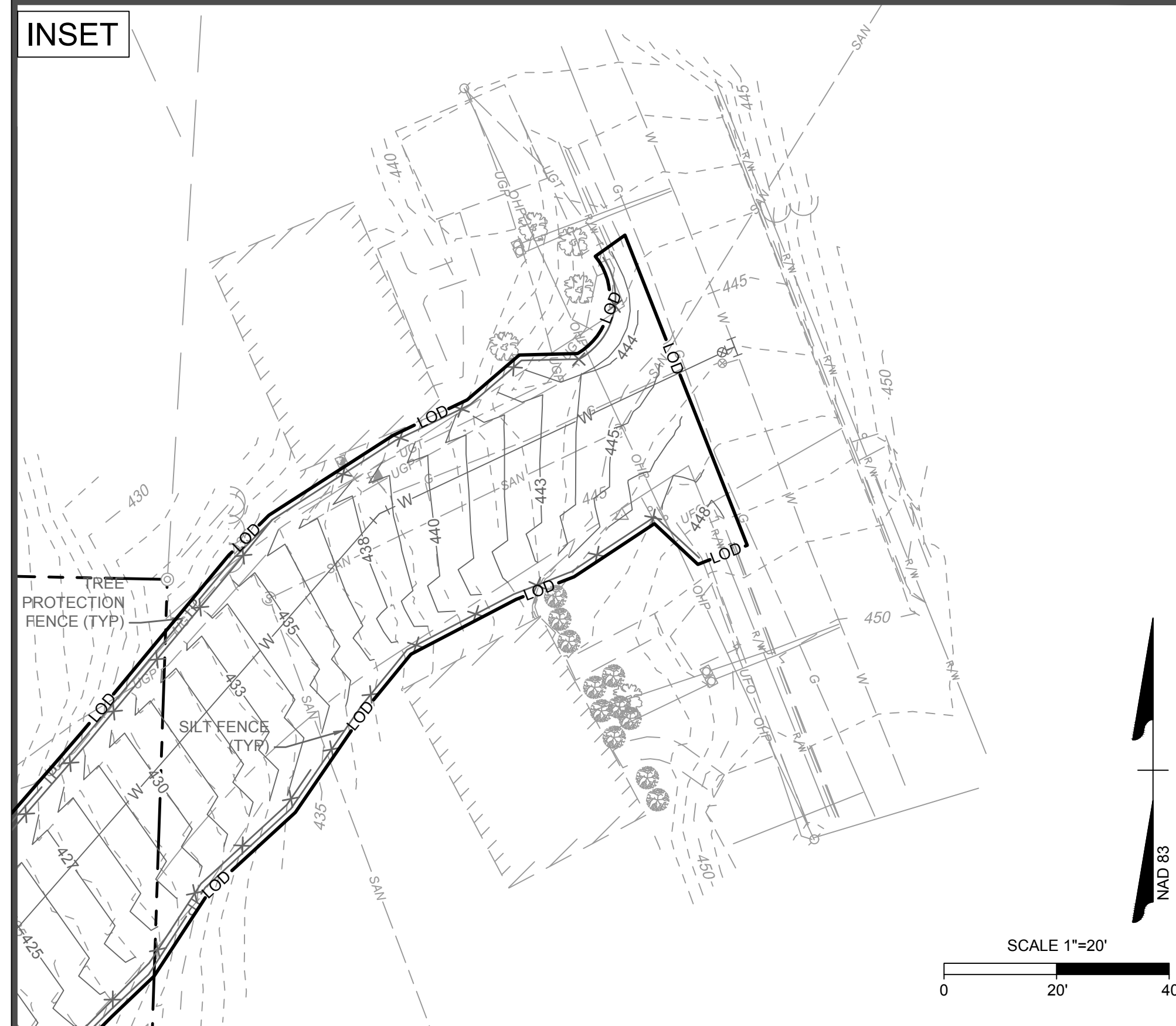
- GENERAL EROSION AND SEDIMENT CONTROL NOTES:**
- ALL CONSTRUCTION SHALL COMPLY WITH NCDEQ STANDARDS AND SPECIFICATIONS.
 - A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
 - FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED.
 - FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
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 - ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEEP AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
 - INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
 - INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
 - PROVIDE ORANGE COUNTY WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO ORANGE COUNTY. THIS AREA MUST ALSO BE AN UPLAND AREA.

- PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:**
- MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I AND ADJUST AS NEEDED.
 - BEGIN GRADING OF SITE AND CONSTRUCTION OF BUILDING A AND B.
 - BEGIN INSTALLATION OF STORM PIPES, WATERLINES AND SANITARY LINES.
 - INSTALL MATTING FOR SLOPES OF 3:1 OR GREATER.
 - ADJUST EROSION CONTROL MEASURES AS NEEDED.
 - PROCEED TO PHASE III OF EROSION CONTROL.

- CONSTRUCTION WITHIN PROTECTED BUFFER NOTES:**
- STREAM BANKS TO BE MATTED WITH FIBERWONDERS COIR MAT C-700 OR APPROVED EQUAL. PLACE RIPARIAN SEED, EROSION CONTROL SEED AND THICK LAYER OF STRAW PRIOR TO MATTING INSTALLATION.
 - FERTILIZER RECOMMENDATIONS, CONTRACTOR TO FIELD VERIFY WITH ON SITE SOIL CONDITIONS:
LIME 3 Ton/AC
PHOSPHATE 20-40 LBS/AC
POTASH 50-70 LBS/AC
 - WATERING REQUIREMENTS ONCE/WEEK IF NO RAIN
 - RIPARIAN SEED MIX ERNST CONSERVATION SEEDS PIEDMONT RIPARIAN SEED MIX OR APPROVED EQUAL BY DESIGNER. APPLICATION RATE 25LBS/AC

- NPDES GROUND STABILIZATION:**
- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

- LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM**
- THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TAKE EFFECT OCTOBER 1, 2010.
 - THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - EXCERPTS FROM THE NORTH CAROLINA GENERAL STATUTES AND THE NORTH CAROLINA ADMINISTRATIVE CODE CONCERNING SELF-INSPECTIONS ARE ENCLOSED. TO BETTER EXPLAIN THE REQUIREMENTS, A LIST OF FREQUENTLY ASKED QUESTIONS IS ALSO ENCLOSED, ALONG WITH A SELF-INSPECTION REPORT FORM. THE SELF-INSPECTION REPORT FORM WILL ALSO BE AVAILABLE AS AN EXCEL SPREADSHEET FROM THE LAND QUALITY WEB SITE. ([HTTP://Dco.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms](http://dco.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms))
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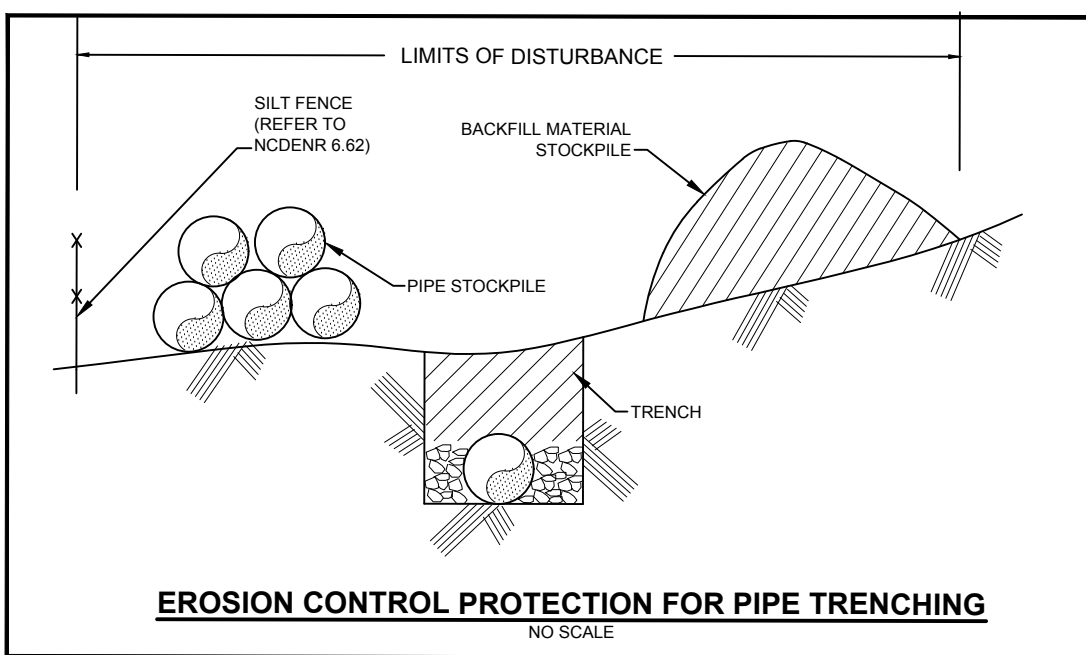
Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

PROJECT NO: 48833
DATE: DECEMBER 1, 2022

REVISIONS	
DATE	DESCRIPTION

PHASE II EROSION & SEDIMENT CONTROL PLAN

C2.1



SELF-INSPECTION REPORT FOR LAND DISTURBING ACTIVITY AS REQUIRED BY NCGS 113A-54.1
15A NCAC 04B .0131 SELF-INSPECTIONS

WHERE INSPECTIONS ARE REQUIRED BY G.S. 113A-54.1(E), THE FOLLOWING APPLY:

(1) THE PERSON WHO PERFORMS THE INSPECTION SHALL MAKE A RECORD OF THE SITE INSPECTION BY DOCUMENTING THE FOLLOWING ITEMS:

(A) ALL OF THE EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES, AS CALLED FOR IN A CONSTRUCTION SEQUENCE CONSISTENT WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, INCLUDING BUT NOT LIMITED TO: SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, SEDIMENTATION PONDS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, ROCK CHECK DAMS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATORS, AND STABILIZATION METHODS OF OPEN CHANNELS, HAVE INITIALLY BEEN INSTALLED AND DO NOT SIGNIFICANTLY DEVIATE (AS DEFINED IN SUB-ITEM (1)(E) OF THIS RULE) FROM THE LOCATIONS, DIMENSIONS AND RELATIVE ELEVATIONS SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING EACH MEASURE OR PRACTICE SHOWN ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT THAT LISTS EACH MEASURE, PRACTICE OR DEVICE SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THIS DOCUMENTATION IS REQUIRED ONLY UPON THE INITIAL INSTALLATION OF THE EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES AS SET FORTH BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT.

(B) THE COMPLETION OF ANY PHASE OF GRADING FOR ALL GRADED SLOPES AND FILLS SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, SPECIFICALLY NOTING THE LOCATION AND CONDITION OF THE GRADED SLOPES AND FILLS. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT.

(C) THE LOCATION OF TEMPORARY OR PERMANENT GROUND COVER, AND THAT THE INSTALLATION OF THE GROUND COVER DOES NOT SIGNIFICANTLY DEVIATE (AS DEFINED IN SUB-ITEM (1)(E) OF THIS RULE) FROM THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT.

(D) THAT MAINTENANCE AND REPAIR REQUIREMENTS FOR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES HAVE BEEN PERFORMED. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT (THE GENERAL STORM WATER PERMIT MONITORING FORM MAY BE USED TO VERIFY THE MAINTENANCE AND REPAIR REQUIREMENTS); AND

(E) ANY SIGNIFICANT DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, CORRECTIVE ACTIONS REQUIRED TO CORRECT THE DEVIATION, AND COMPLETION OF THE CORRECTIVE ACTIONS. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT. A SIGNIFICANT DEVIATION MEANS AN OMISSION, ALTERATION OR RELOCATION OF AN EROSION OR SEDIMENTATION CONTROL MEASURE THAT PREVENTS THE MEASURE FROM PERFORMING AS INTENDED.

(2) THE DOCUMENTATION, WHETHER ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR AN INSPECTION REPORT, SHALL INCLUDE THE NAME, ADDRESS, AFFILIATION, TELEPHONE NUMBER, AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION AND THE DATE OF THE INSPECTION. ANY RELEVANT LICENSES AND CERTIFICATIONS MAY ALSO BE INCLUDED. ANY DOCUMENTATION OF INSPECTIONS THAT OCCUR ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL OCCUR ON A SINGLE COPY OF THE PLAN AND THAT PLAN SHALL BE MADE AVAILABLE ON THE SITE. ANY INSPECTION REPORTS SHALL ALSO BE MADE AVAILABLE ON THE SITE.

(3) THE INSPECTION SHALL BE PERFORMED DURING OR AFTER EACH OF THE FOLLOWING PHASES OF A PLAN:

(A) INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES;

(B) CLEARING AND GRUBBING OF EXISTING GROUND COVER;

(C) COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS THAT REQUIRES PROVISION OF TEMPORARY OR PERMANENT GROUND COVER PURSUANT TO G.S. 113A-57(2);

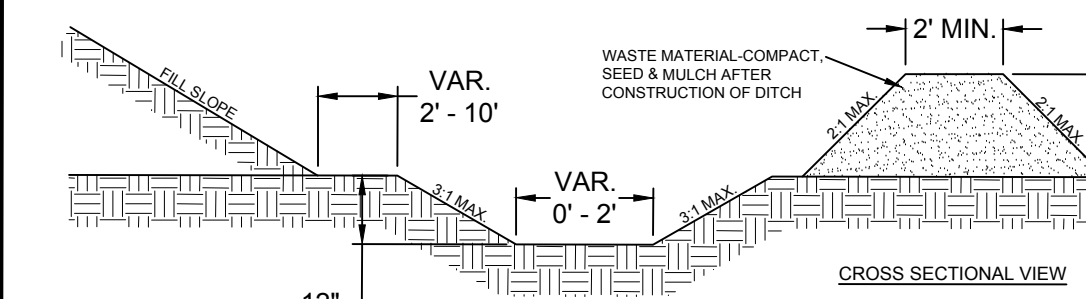
(D) COMPLETION OF STORM DRAINAGE FACILITIES;

(E) COMPLETION OF CONSTRUCTION OR DEVELOPMENT; AND

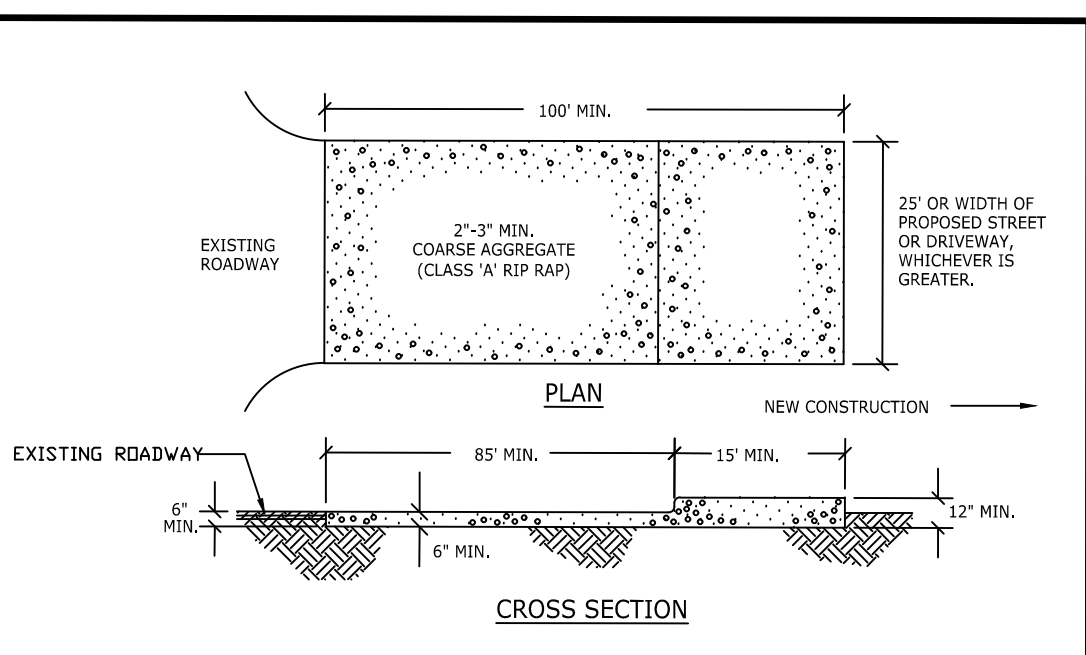
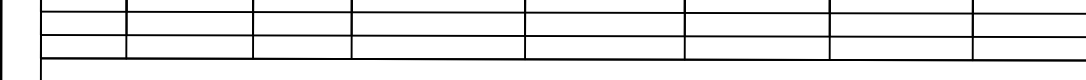
(F) QUARTERLY UNTIL THE ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION OR UNTIL THE FINANCIALLY RESPONSIBLE PARTY HAS CONVEYED OWNERSHIP OR CONTROL OF THE TRACT OF LAND FOR WHICH THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN APPROVED AND THE AGENCY THAT APPROVED THE PLAN HAS BEEN NOTIFIED. IF THE FINANCIALLY RESPONSIBLE PARTY HAS CONVEYED OWNERSHIP OR CONTROL OF THE TRACT OF LAND FOR WHICH THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN APPROVED, THE NEW OWNER OR PERSON IN CONTROL SHALL CONDUCT AND DOCUMENT INSPECTIONS QUARTERLY UNTIL THE ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION.

- NOTES:**
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
 2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
 3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
 4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

MAINTENANCE:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.



DITCH	TOTAL FLOW (CFS)	SLOPE (%)	BOTTOM WIDTH (FT)	RIGHT SLOPE (H:V)	LEFT SLOPE (H:V)	FLOW DEPTH (FT)	LINER
A	2.87	.41	1	3:1	3:1	0.89	STRAW W/ NET
B	1.41	0.98	1	3:1	3:1	0.27	STRAW W/ NET
C	1.29	0.67	1	3:1	3:1	0.28	STRAW W/ NET
D	0.98	0.87	1	3:1	3:1	0.45	STRAW W/ NET

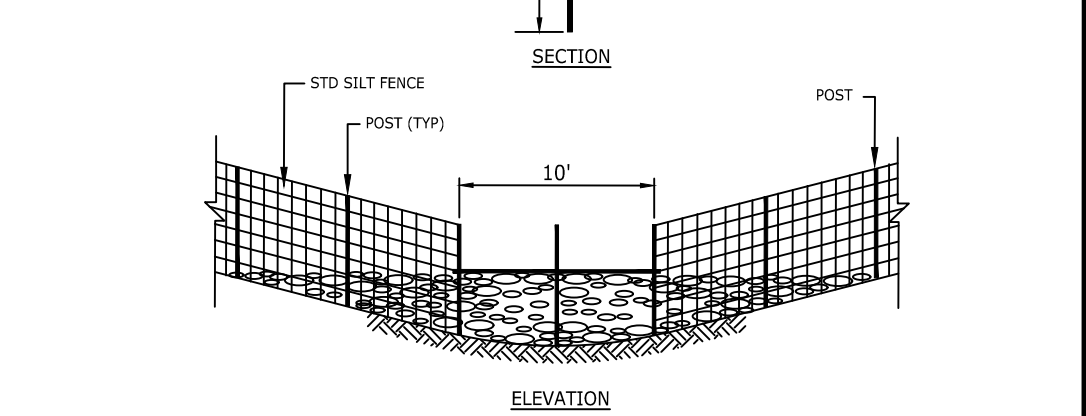
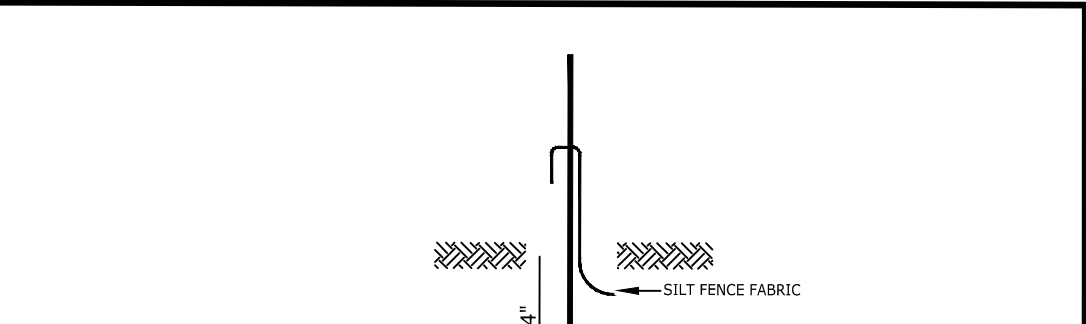


CONSTRUCTION NOTES:

1. ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL TO BE PROVIDED.
3. ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
4. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
5. FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
6. NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.

MAINTENANCE NOTES:

1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPDRESSING WITH 2"IN STONE.
2. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.



MAINTENANCE NOTES:

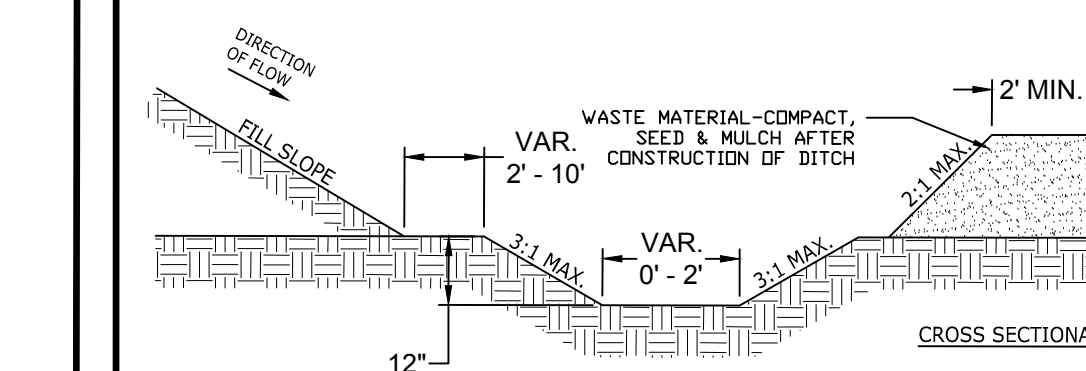
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS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

DISPOSAL/RECYCLING:

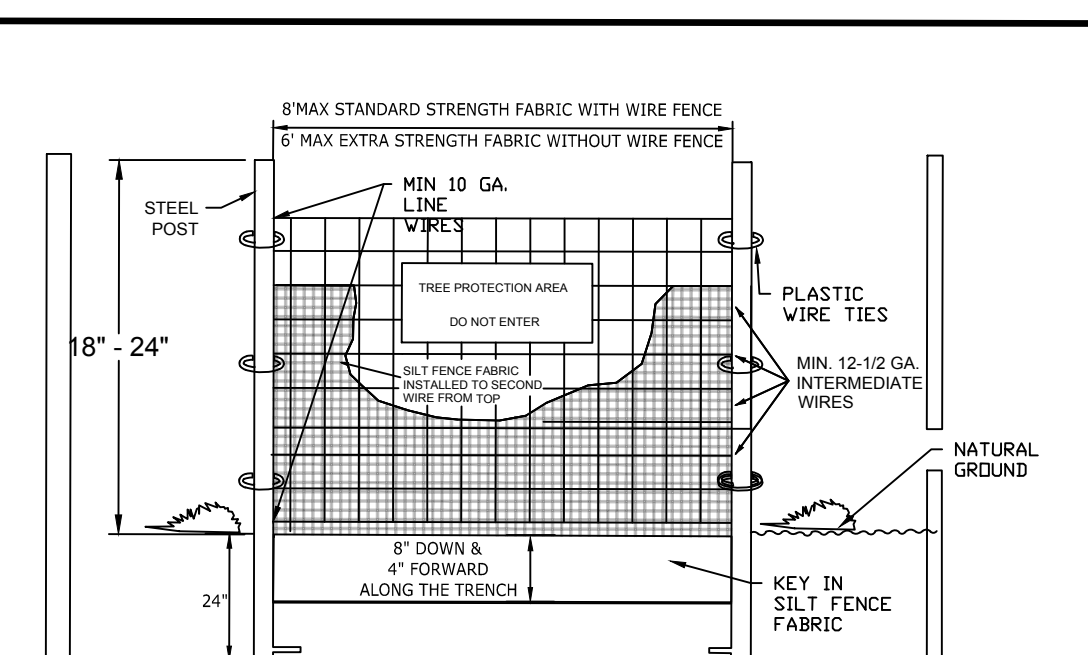
1. COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL SURFACE TO AID IN PERMANENT SEEDING OR LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTOGRAPHABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

MAINTENANCE:

- INSPECT CLEAN WATER DIVERSION ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.
- NOTES:**
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT AWAY FROM THE DISTURBED AREA.
 2. DITCH SHALL REMAIN FREE OF DEBRIS AND TRASH.
 3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
 4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.



*SWALES HAVE BEEN DESIGNED USING RAINFALL INTENSITY FOR THE 10-YEAR STORM ACCORDING TO THE NCDENR EROSION CONTROL MANUAL.

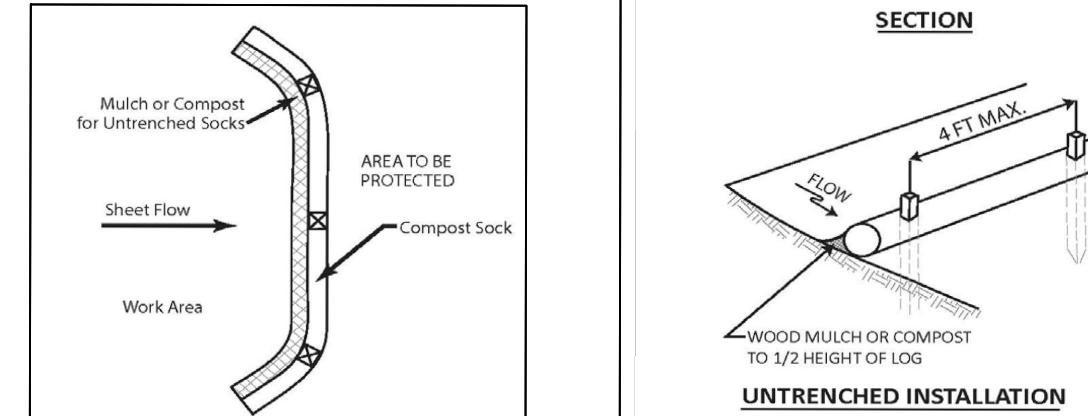


INSTALLATION SPECIFICATIONS:

1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ON FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH RATCHURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 50 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
10. TREE PROTECTION SIGNS ARE TO BE PLACED EVERY 50-FT AND FENCE MUST REMAIN UNTIL CLOSURE OF PROJECT.

MAINTENANCE:

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



CONSTRUCTION SPECIFICATIONS:

1. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED ABOVE AND IN PRACTICE 6.18. COMPOST BLANKETS.
2. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
3. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLOUDS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.
4. COMPOST SOCKS SHOULD BE INSTALLED PARALLEL TO THE TOE OF A GRADED SLOPE, A MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE. SOCKS LOCATED BELOW FLAT AREAS SHOULD BE LOCATED AT THE EDGE OF THE LAND-DISTURBANCE. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
5. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
6. OAK OR OTHER DURABLE HARDWOOD STAKES 2" X 2" IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. SEE FIGURE 6.16B. THE STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING FLOOD EVENTS.
8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
9. COMPOST SOCKS ARE NOT TO BE USED IN PERENNIAL OR INTERMITTENT STREAMS.

MAINTENANCE:

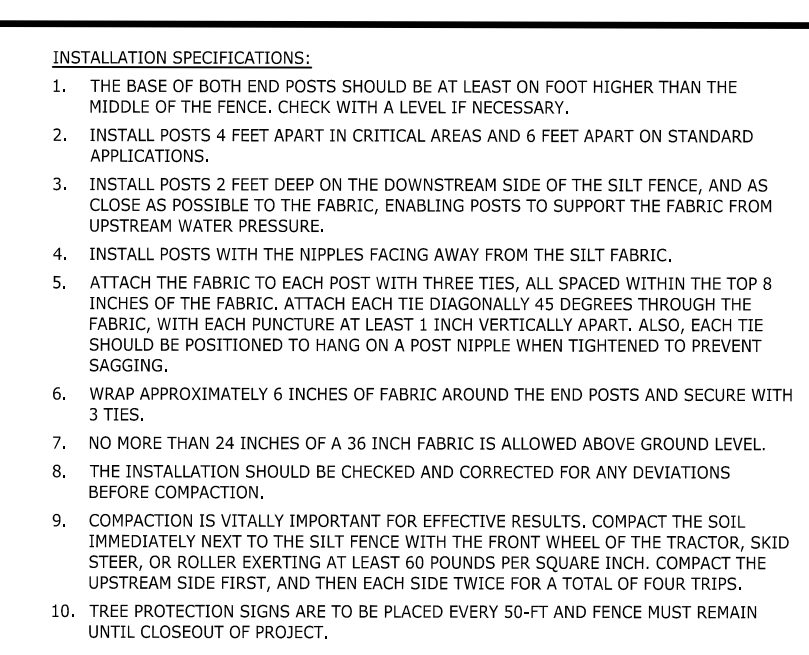
1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOGGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

DISPOSAL/RECYCLING:

1. COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL SURFACE TO AID IN PERMANENT SEEDING OR LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTOGRAPHABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

MAINTENANCE:

- INSPECT CLEAN WATER DIVERSION ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.
- NOTES:**
1. THE LENGTH OF THE RIPRAP ARRANG.
 2. 1/3 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 4" (MIN).
 3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
 4. MAINTAIN ENERGY DISSIPATORS INSTALLED DURING EARLY SITE WORK THROUGHOUT THE CONSTRUCTION AREA.

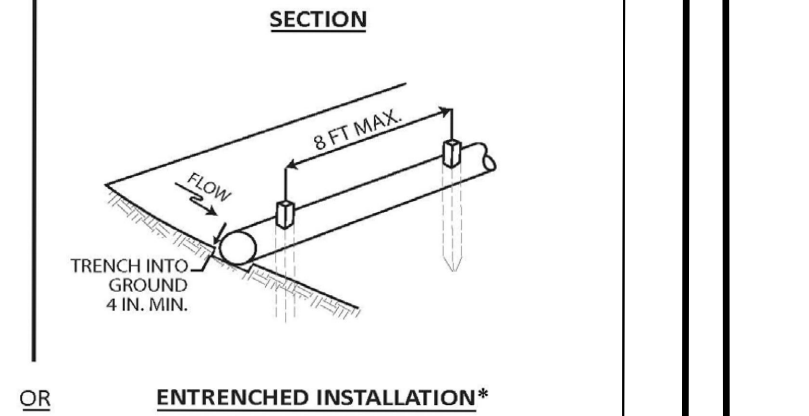


ABOVE GROUND WASHOUT STRUCTURE NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SOIL.
2. GRADE THE APPROACH OF THE INLET UNIFORMLY.
3. PROTECT NEEP HOLES BY GRAVEL.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE EXCAVATED BASIN WITH STABLE SOIL TO FINAL GRADING ELEVATIONS, COMPACT THE FILL PROPERLY AND STABILIZE.



CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SOIL.
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MAINTENANCE:

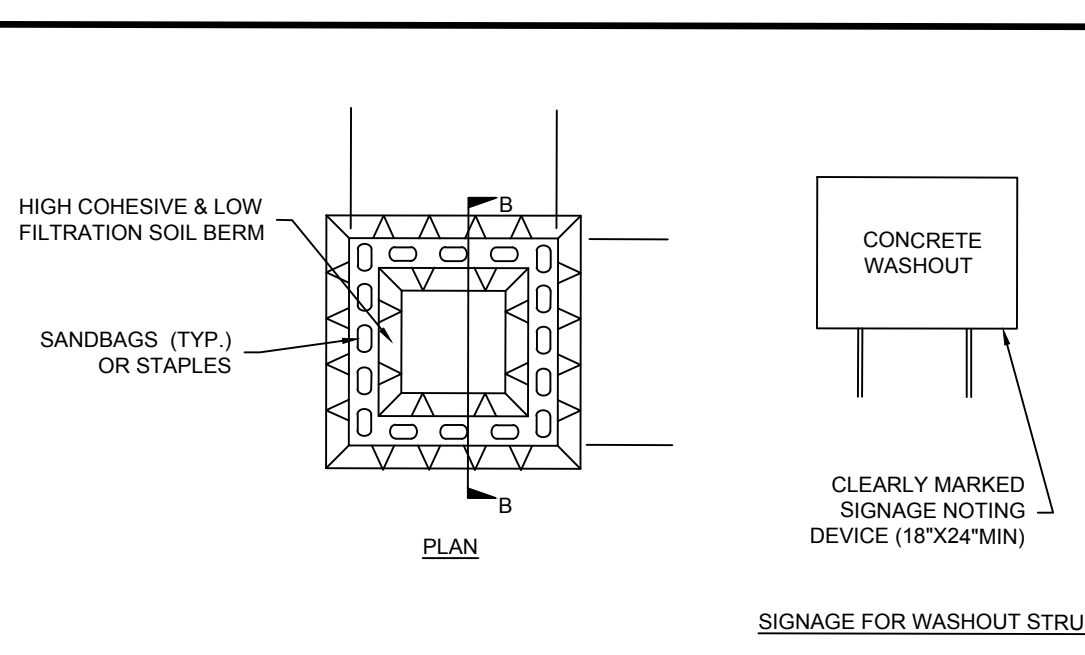
- INSPECT, CLEAN, AND PROPERLY MAINTAIN THE EXCAVATED BASIN AFTER EVERY STORM UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. TO PROVIDE SATISFACTORY BASIN EFFICIENCY, REMOVE SEDIMENT WHEN THE VOLUME OF THE BASIN HAS BEEN REDUCED BY ONE-HALF. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA OR STOCKPILE AND STABILIZE IT APPROPRIATELY.

ENERGY DISSIPATOR SCHEDULE:

PIPE SIZE (IN)	W1 (FT)	W2 (FT)	LENGTH (FT)	THICKNESS (IN)	D50 SIZE (IN)	STONE CLASS
RR-A1	15"	6.3	3.8	5.0	12	3 A
RR-B1	15"	6.3	3.8	5.0	12	3 A
RR-C1	15"	6.3	3.8	5.0	12	3 A
RR-D1	6"	6.3	3.8	5.0	12	3 A

MAINTENANCE:

- RR-AP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLOGGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.

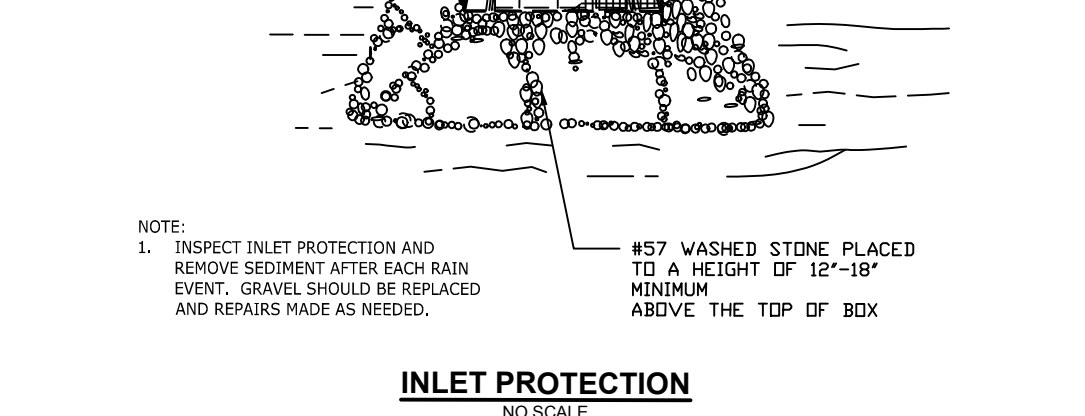


CONSTRUCTION SPECIFICATIONS:

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SOIL.
2. GRADE THE APPROACH OF THE INLET UNIFORMLY.
3. PROTECT NEEP HOLES BY GRAVEL.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE EXCAVATED BASIN WITH STABLE SOIL TO FINAL GRADING ELEVATIONS, COMPACT THE FILL PROPERLY AND STABILIZE.



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MAINTENANCE:

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MAINTENANCE:

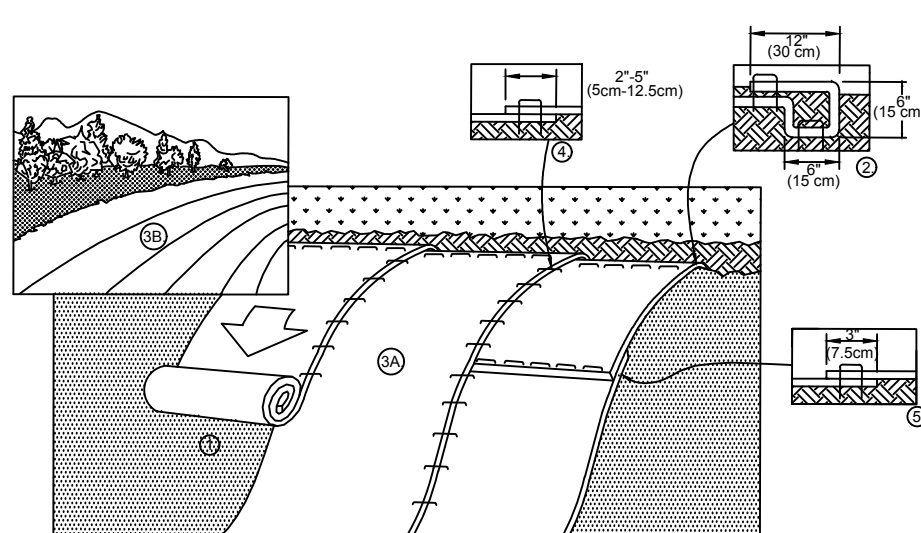
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DATE	REVISIONS DESCRIPTION



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EVANVILLE, IN 47725
800-772-2040
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SLOPE INSTALLATION



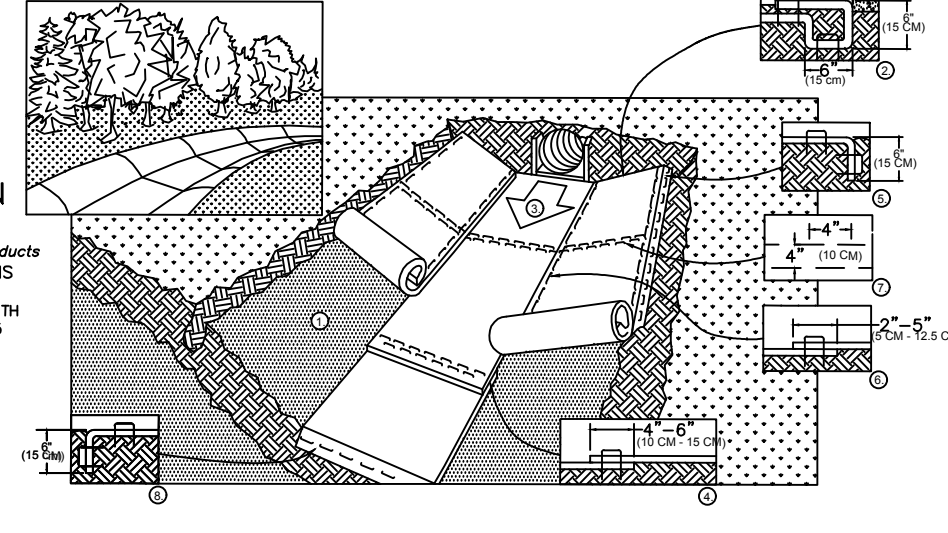
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPs.
3. ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECPs TYPE.
5. CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECPs WIDTH.

REV. 01/05



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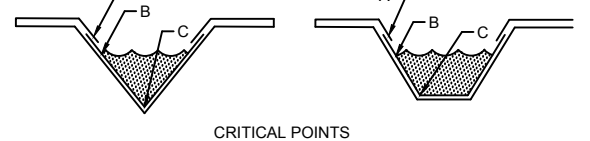
CHANNEL INSTALLATION



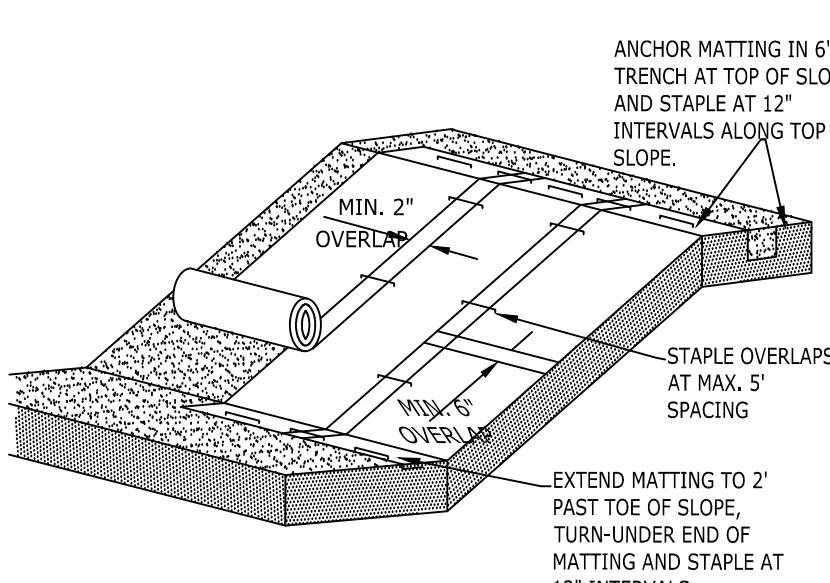
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2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPs.
3. ROLL CENTER RECPs IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. IN WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECPs END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECPs.
5. FULL LENGTH EDGE OF RECPs AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECPs MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) (DEPENDING ON RECPs TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FEET (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECPs MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:

IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECPs.



- CRITICAL POINTS**
1. A. OVERLAPS AND SEAMS
 - B. PROJECTED WATER LINE
 - C. CHANNEL BOTTOMSIDE SLOPE VERTICES
- NOTE: HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECPs.



NOTES:

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

MAINTENANCE NOTES:

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

SLOPE MATTING
NO SCALE

NOTES:

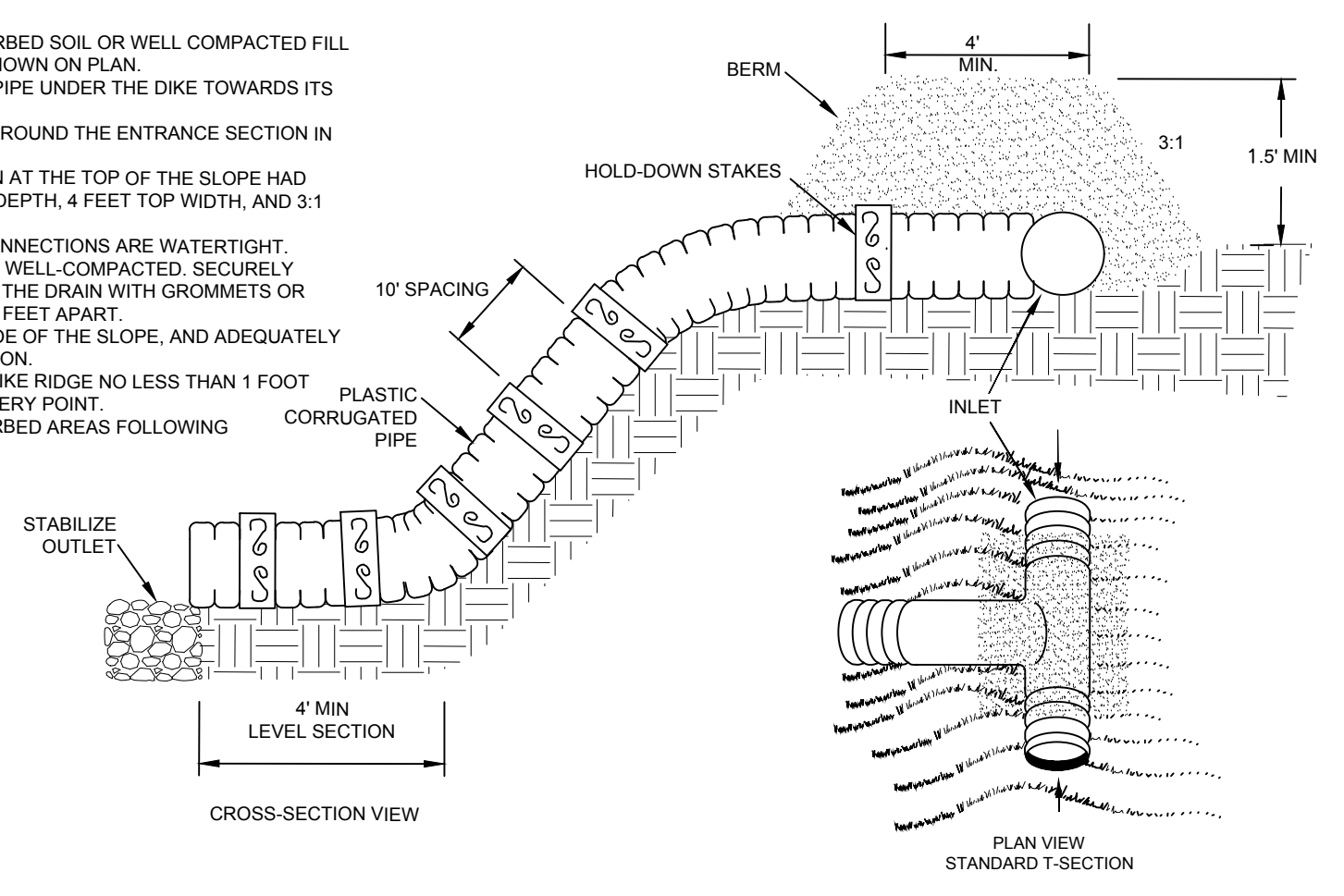
1. CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 6-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATERTIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
2. USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM ON EITHER SIDE OF THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJOINING BERM ON EITHER SIDE. THE LOWEST POINT OF THE DIVERSION BERM SHOULD BE A MINIMUM OF 1 FT.
3. ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
4. PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATER.

CONSTRUCTION SPECIFICATION

1. PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON PLAN.
2. SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARDS ITS OUTLET.
3. HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT EXCEEDING 6 INCHES.
4. ENSURE THAT FILL OVER THE DRAIN AT THE TOP OF THE SLOPE HAD MINIMUM DIMENSIONS OF 1.5 FEET DEPTH, 4 FEET TOP WIDTH, AND 3:1 SIDE SLOPES.
5. ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATERTIGHT.
6. ENSURE THAT ALL FILL MATERIAL IS WELL-COMPACTED. SECURELY FASTEN THE EXPOSED SECTION OF THE DRAIN WITH GROMMETS OR STAPLES SPACES NO MORE THAN 10 FEET APART.
7. EXTEND THE DRAIN BEYOND THE TOE OF THE SLOPE, AND ADEQUATELY PROTECT THE OUTLET FROM EROSION.
8. MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
9. IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.

MAINTENANCE

1. INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED. MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.



TEMPORARY SLOPE DRAIN (NCDEQ 6.32)
NO SCALE



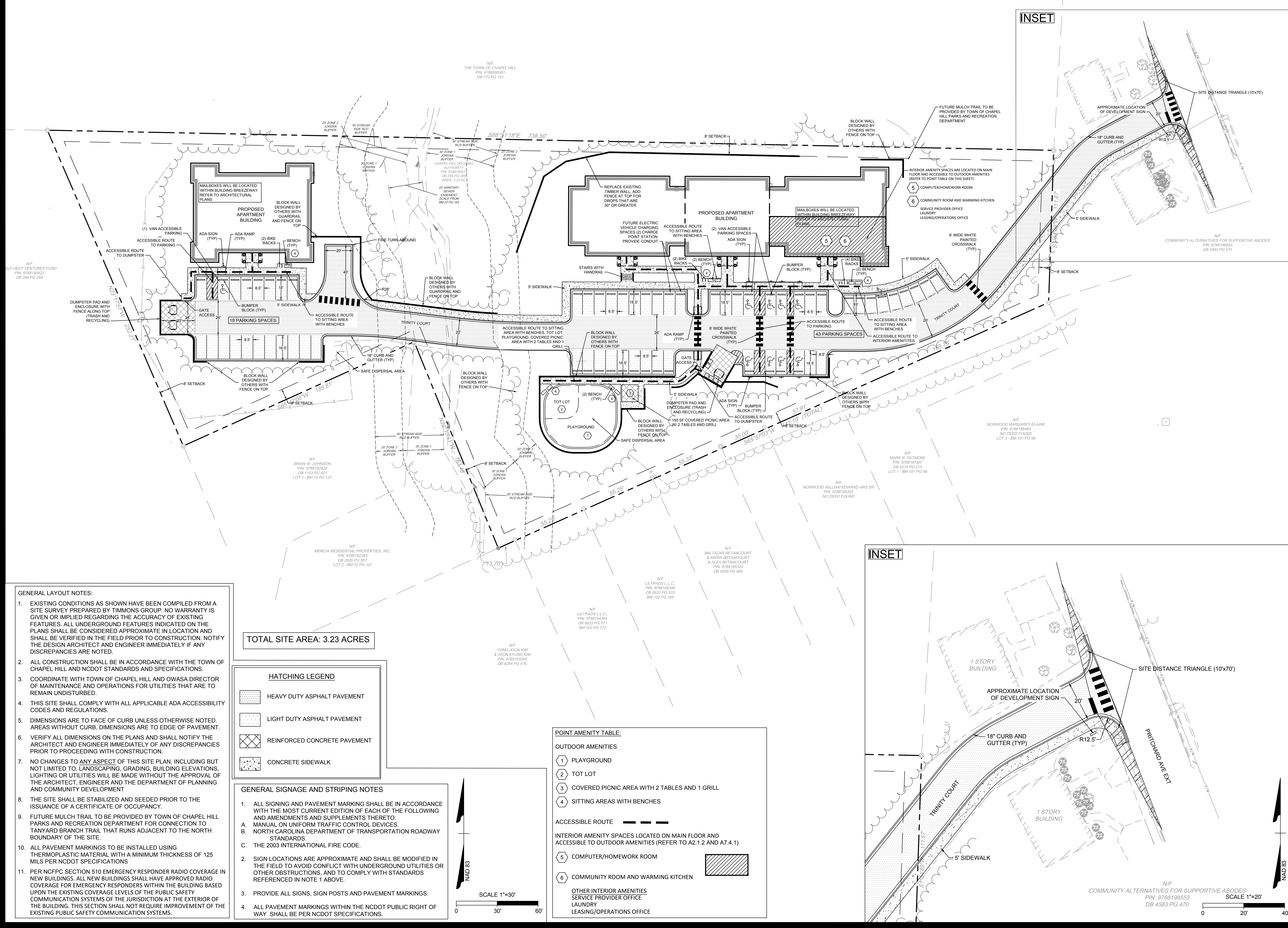
Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

PROJECT NO: 48833
DATE: DECEMBER 1, 2022

DATE	REVISIONS DESCRIPTION

EROSION CONTROL
NOTES AND
DETAILS

C2.4



INSET

INSET

- GENERAL LAYOUT NOTES:**
- EXISTING CONDITIONS AS SHOWN HAVE BEEN COMPILED FROM A SITE SURVEY PREPARED BY TIMMONS GROUP. NO WARRANTY IS GIVEN OR IMPLIED REGARDING THE ACCURACY OF EXISTING FEATURES. ALL UNDERGROUND FEATURES INDICATED ON THE PLANS SHALL BE CONSIDERED APPROXIMATE IN LOCATION AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE DESIGN ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE NOTED.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL AND NCDOT STANDARDS AND SPECIFICATIONS.
 - COORDINATE WITH TOWN OF CHAPEL HILL AND OWASA DIRECTOR OF MAINTENANCE AND OPERATIONS FOR UTILITIES THAT ARE TO REMAIN UNDISTURBED.
 - THIS SITE SHALL COMPLY WITH ALL APPLICABLE ADA ACCESSIBILITY CODES AND REGULATIONS.
 - DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. AREAS WITHOUT CURB, DIMENSIONS ARE TO EDGE OF PAVEMENT.
 - VERIFY ALL DIMENSIONS ON THE PLANS AND SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - NO CHANGES TO ANY ASPECT OF THIS SITE PLAN, INCLUDING BUT NOT LIMITED TO, LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING OR UTILITIES WILL BE MADE WITHOUT THE APPROVAL OF THE ARCHITECT, ENGINEER AND THE DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
 - THE SITE SHALL BE STABILIZED AND SEEDDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - FUTURE MULCH TRAIL TO BE PROVIDED BY TOWN OF CHAPEL HILL PARKS AND RECREATION DEPARTMENT FOR CONNECTION TO TANYARD BRANCH TRAIL THAT RUNS ADJACENT TO THE NORTH BOUNDARY OF THE SITE.
 - ALL PAVEMENT MARKINGS TO BE INSTALLED USING THERMOPLASTIC MATERIAL WITH A MINIMUM THICKNESS OF 125 MILS PER NCDOT SPECIFICATIONS
 - PER NCFPC SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE IN NEW BUILDINGS. ALL NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON THE EXISTING COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. THIS SECTION SHALL NOT REQUIRE IMPROVEMENT OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEMS.

TOTAL SITE AREA: 3.23 ACRES

HATCHING LEGEND

[Hatched Pattern]	HEAVY DUTY ASPHALT PAVEMENT
[Dotted Pattern]	LIGHT DUTY ASPHALT PAVEMENT
[Cross-hatched Pattern]	REINFORCED CONCRETE PAVEMENT
[Stippled Pattern]	CONCRETE SIDEWALK

- GENERAL SIGNAGE AND STRIPING NOTES**
- ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND AMENDMENTS AND SUPPLEMENTS THERETO:
 A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 B. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARDS.
 C. THE 2003 INTERNATIONAL FIRE CODE.
 - SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS, AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.
 - PROVIDE ALL SIGNS, SIGN POSTS AND PAVEMENT MARKINGS.
 - ALL PAVEMENT MARKINGS WITHIN THE NCDOT PUBLIC RIGHT OF WAY SHALL BE PER NCDOT SPECIFICATIONS.

POINT AMENITY TABLE:

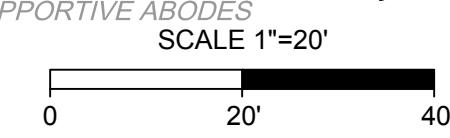
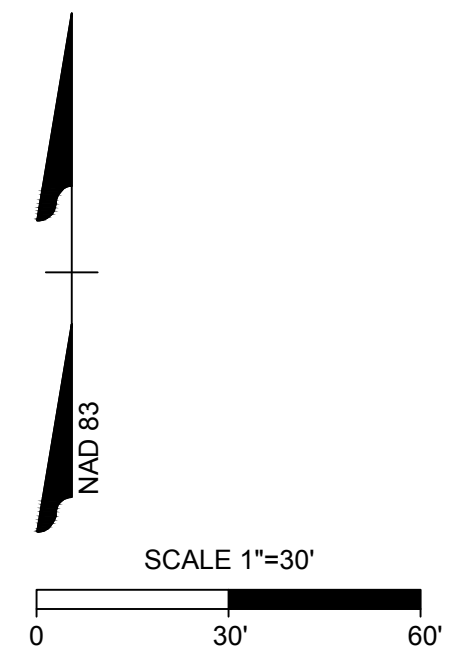
OUTDOOR AMENITIES
1 PLAYGROUND
2 TOT LOT
3 COVERED PICNIC AREA WITH 2 TABLES AND 1 GRILL
4 SITTING AREAS WITH BENCHES

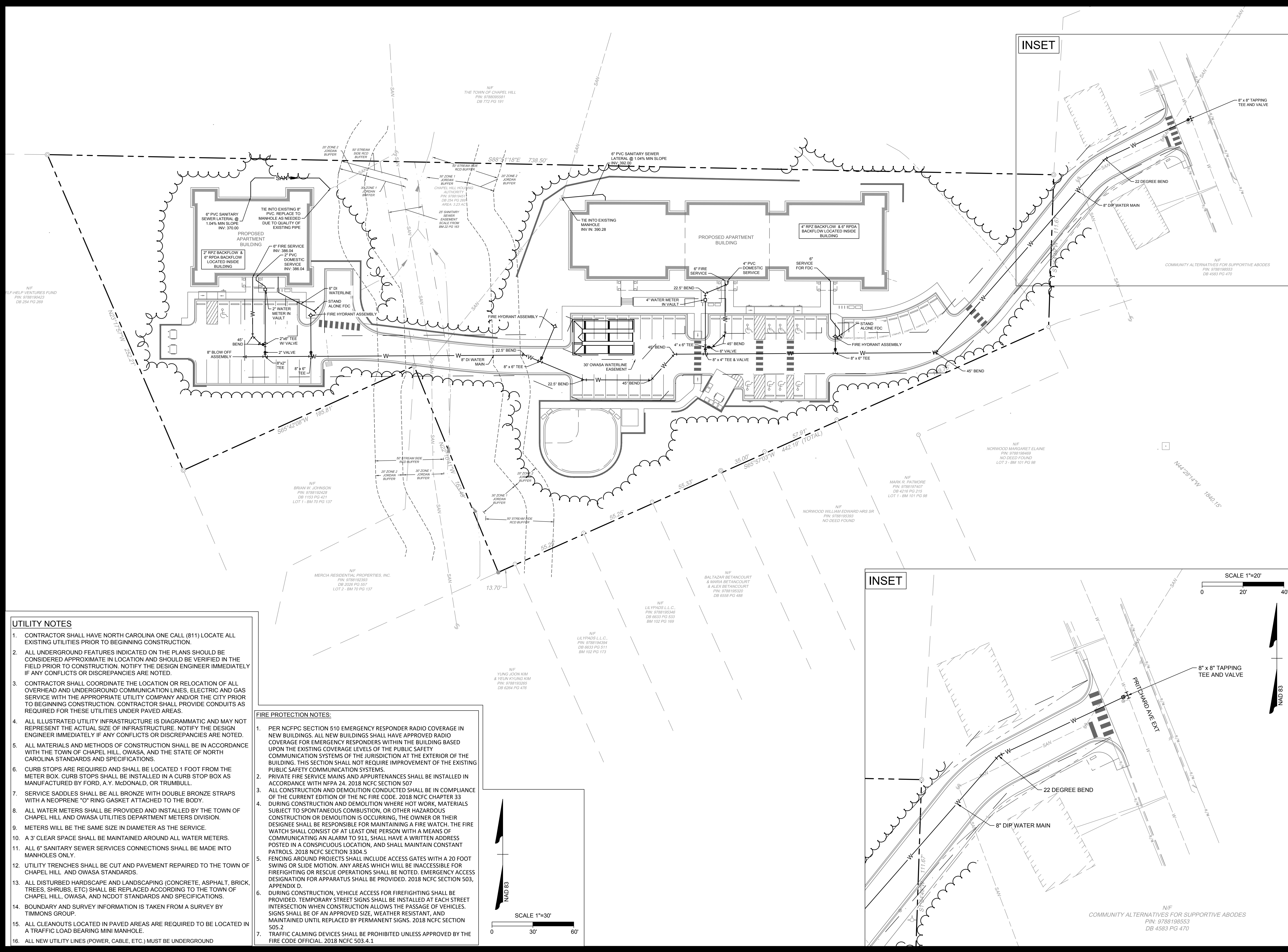
ACCESSIBLE ROUTE [Dashed Line Symbol]

INTERIOR AMENITY SPACES LOCATED ON MAIN FLOOR AND ACCESSIBLE TO OUTDOOR AMENITIES (REFER TO A2.1.2 AND A7.4.1)

5 COMPUTER/HOMEWORK ROOM
6 COMMUNITY ROOM AND WARMING KITCHEN

OTHER INTERIOR AMENITIES
 SERVICE PROVIDER OFFICE
 LAUNDRY
 LEASING/OPERATIONS OFFICE

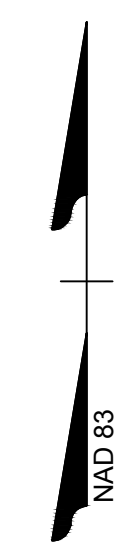




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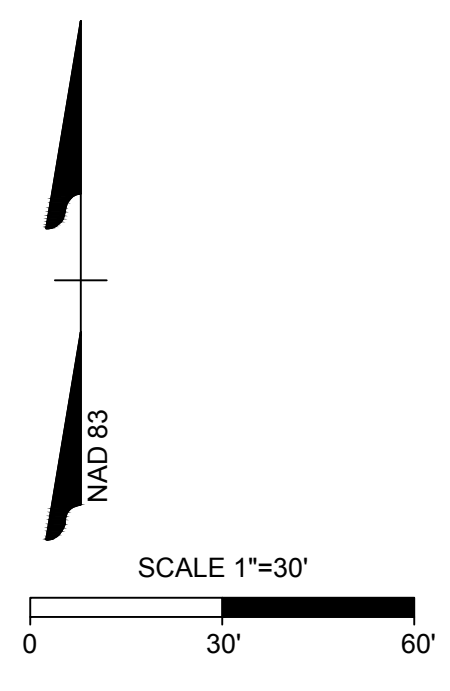
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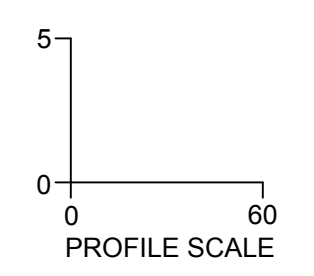
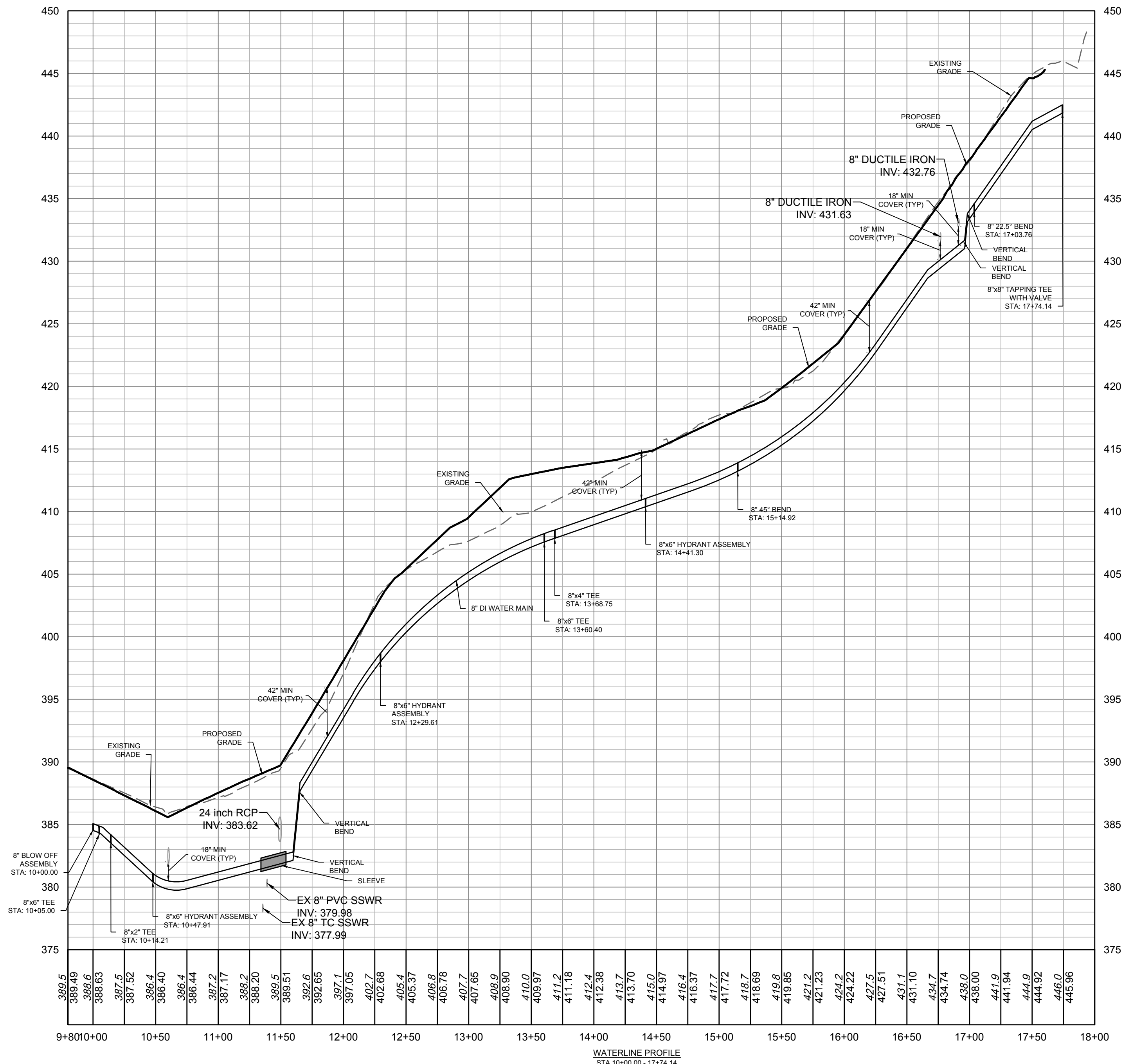
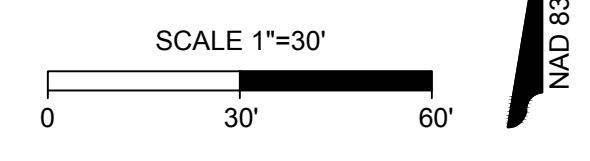
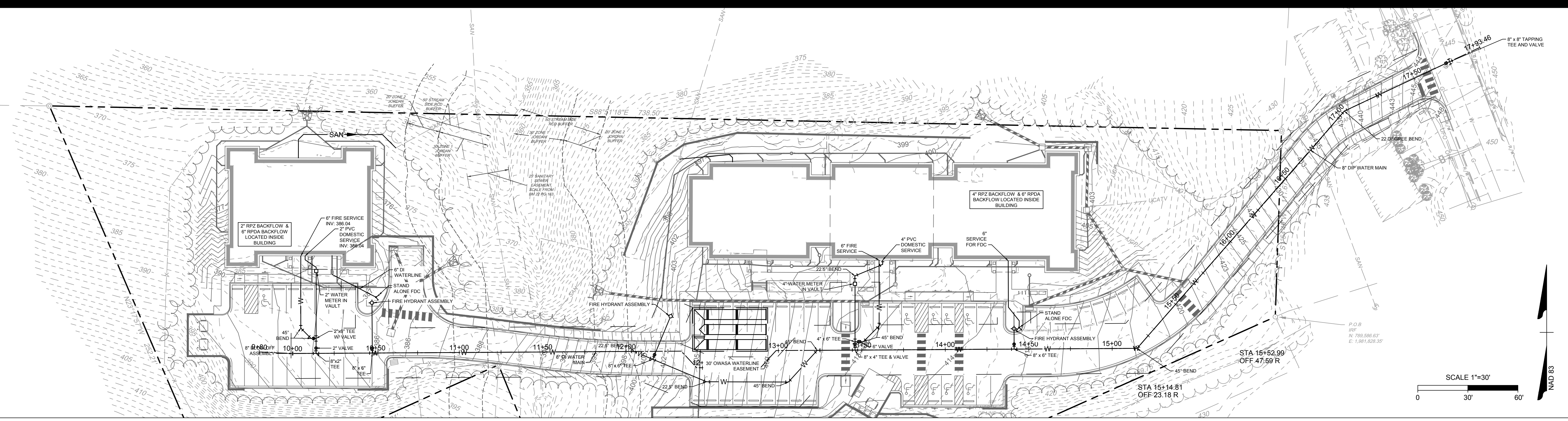
SCALE 1"=20'



- UTILITY NOTES**
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
 - ALL UNDERGROUND FEATURES INDICATED ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
 - CONTRACTOR SHALL COORDINATE THE LOCATION OR RELOCATION OF ALL OVERHEAD AND UNDERGROUND COMMUNICATION LINES, ELECTRIC AND GAS SERVICE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE CITY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS.
 - ALL ILLUSTRATED UTILITY INFRASTRUCTURE IS DIAGRAMMATIC AND MAY NOT REPRESENT THE ACTUAL SIZE OF INFRASTRUCTURE. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL, OWASA, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - CURB STOPS ARE REQUIRED AND SHALL BE LOCATED 1 FOOT FROM THE METER BOX. CURB STOPS SHALL BE INSTALLED IN A CURB STOP BOX AS MANUFACTURED BY FORD, A.Y. McDONALD, OR TRUMBULL.
 - SERVICE SADDLES SHALL BE ALL BRONZE WITH DOUBLE BRONZE STRAPS WITH A NEOPRENE "O" RING GASKET ATTACHED TO THE BODY.
 - ALL WATER METERS SHALL BE PROVIDED AND INSTALLED BY THE TOWN OF CHAPEL HILL AND OWASA UTILITIES DEPARTMENT METERS DIVISION.
 - METERS WILL BE THE SAME SIZE IN DIAMETER AS THE SERVICE.
 - A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND ALL WATER METERS.
 - ALL 6" SANITARY SEWER SERVICES CONNECTIONS SHALL BE MADE INTO MANHOLES ONLY.
 - UTILITY TRENCHES SHALL BE CUT AND PAVEMENT REPAIRED TO THE TOWN OF CHAPEL HILL AND OWASA STANDARDS.
 - ALL DISTURBED HARDSCAPE AND LANDSCAPING (CONCRETE, ASPHALT, BRICK, TREES, SHRUBS, ETC) SHALL BE REPLACED ACCORDING TO THE TOWN OF CHAPEL HILL, OWASA, AND NCDOT STANDARDS AND SPECIFICATIONS.
 - BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A SURVEY BY TIMMONS GROUP.
 - ALL CLEANOUTS LOCATED IN PAVED AREAS ARE REQUIRED TO BE LOCATED IN A TRAFFIC LOAD BEARING MINI MANHOLE.
 - ALL NEW UTILITY LINES (POWER, CABLE, ETC.) MUST BE UNDERGROUND

- FIRE PROTECTION NOTES:**
- PER NCFPC SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE IN NEW BUILDINGS. ALL NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON THE EXISTING COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. THIS SECTION SHALL NOT REQUIRE IMPROVEMENT OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEMS.
 - PRIVATE FIRE SERVICE MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, 2018 NCFC SECTION 507
 - ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE OF THE CURRENT EDITION OF THE NC FIRE CODE, 2018 NCFC CHAPTER 33
 - DURING CONSTRUCTION AND DEMOLITION WHERE HOT WORK, MATERIALS SUBJECT TO SPONTANEOUS COMBUSTION, OR OTHER HAZARDOUS CONSTRUCTION OR DEMOLITION IS OCCURRING, THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING A FIRE WATCH. THE FIRE WATCH SHALL CONSIST OF AT LEAST ONE PERSON WITH A MEANS OF COMMUNICATING AN ALARM TO 911, SHALL HAVE A WRITTEN ADDRESS POSTED IN A CONSPICUOUS LOCATION, AND SHALL MAINTAIN CONSTANT PATROLS. 2018 NCFC SECTION 3304.5
 - FENCING AROUND PROJECTS SHALL INCLUDE ACCESS GATES WITH A 20 FOOT SWING OR SLIDE MOTION. ANY AREAS WHICH WILL BE INACCESSIBLE FOR FIREFIGHTING OR RESCUE OPERATIONS SHALL BE NOTED. EMERGENCY ACCESS DESIGNATION FOR APPARATUS SHALL BE PROVIDED. 2018 NCFC SECTION 503, APPENDIX D.
 - DURING CONSTRUCTION, VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION ALLOWS THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF AN APPROVED SIZE, WEATHER RESISTANT, AND MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS. 2018 NCFC SECTION 505.2
 - TRAFFIC CALMING DEVICES SHALL BE PROHIBITED UNLESS APPROVED BY THE FIRE CODE OFFICIAL. 2018 NCFC 503.4.1





NOTES:
 1. PIPE LENGTHS IN PROFILES ARE ACTUAL PIPE LENGTHS FROM CENTER TO CENTER OF STRUCTURE. PIPE LENGTHS IN DRAINAGE DESCRIPTIONS ARE PIPE LENGTHS AS MEASURED IN PLAN VIEW FROM CENTER TO CENTER OF STRUCTURE.
 2. PROVIDE VERTICAL BENDS AT ALL WATERLINES THAT CROSS OTHER UTILITIES ON STORM PIPES WITH LESS THAN 18" OF COVER.

KEY

C/L EX. GRADE	-----
C/L FINAL GRADE	—————

MOSELEYARCHITECTS
 1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
 PHONE (410) 639-4300 FAX (410) 639-0660
 MOSELEYARCHITECTS.COM

TIMMONS GROUP
 YOUR VISION ACHIEVED THROUGH OURS.
 5410 Trinity Road, Suite 102
 Raleigh, NC 27615
 TEL: 919.866.4951
 FAX: 919.866.5563
 www.timmons.com
 North Carolina License No. C-1652
 Site Development/Geotechnical/Infrastructure/Technology
 #0032-033

Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

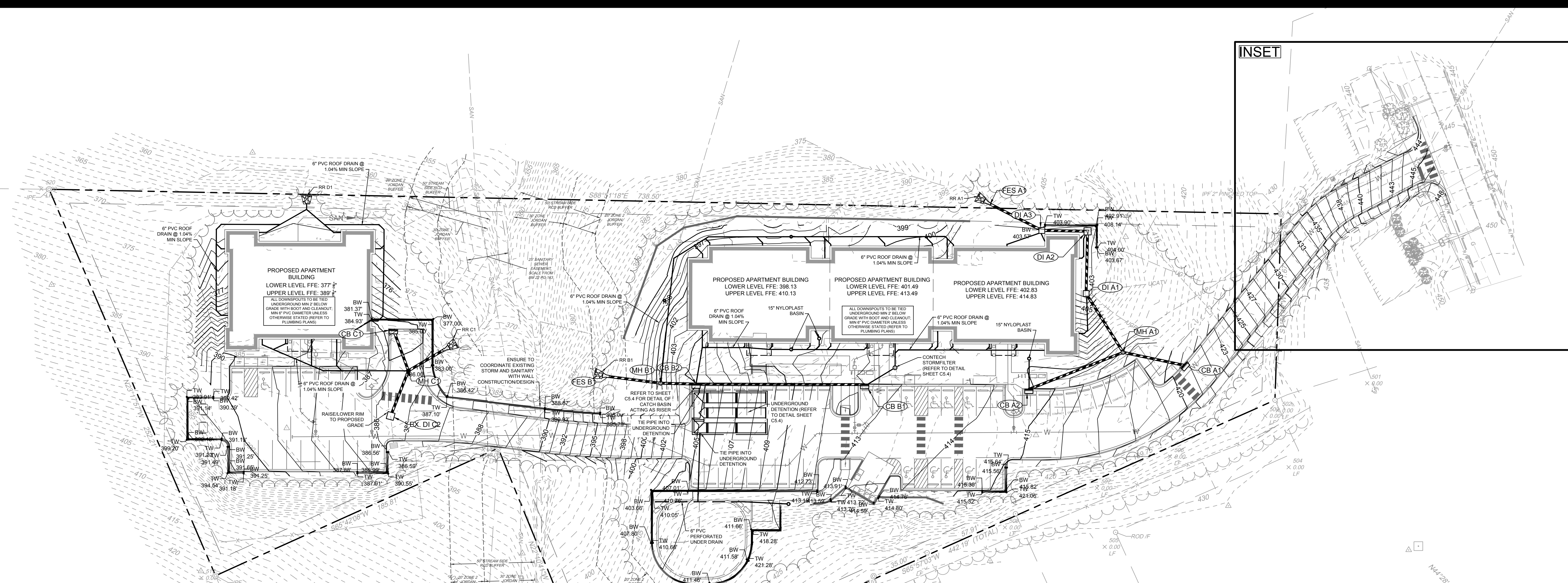
PROJECT NO: 48833
 DATE: DECEMBER 1, 2022

REVISIONS

DATE	DESCRIPTION

WATERLINE PROFILE

C3.2



INSET

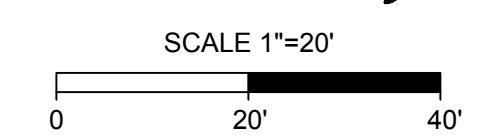
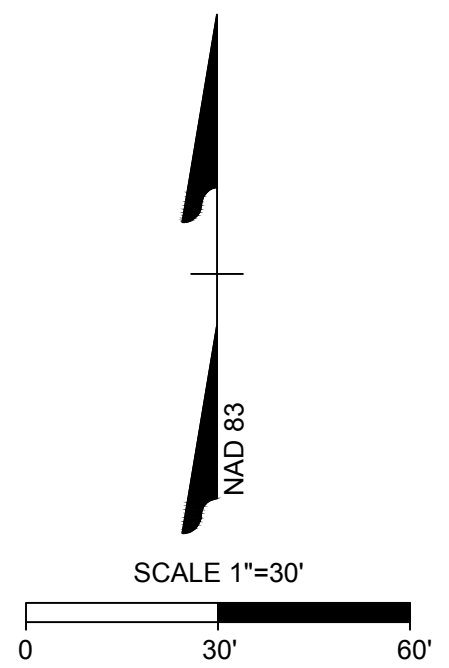
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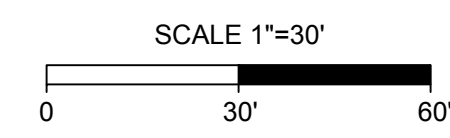
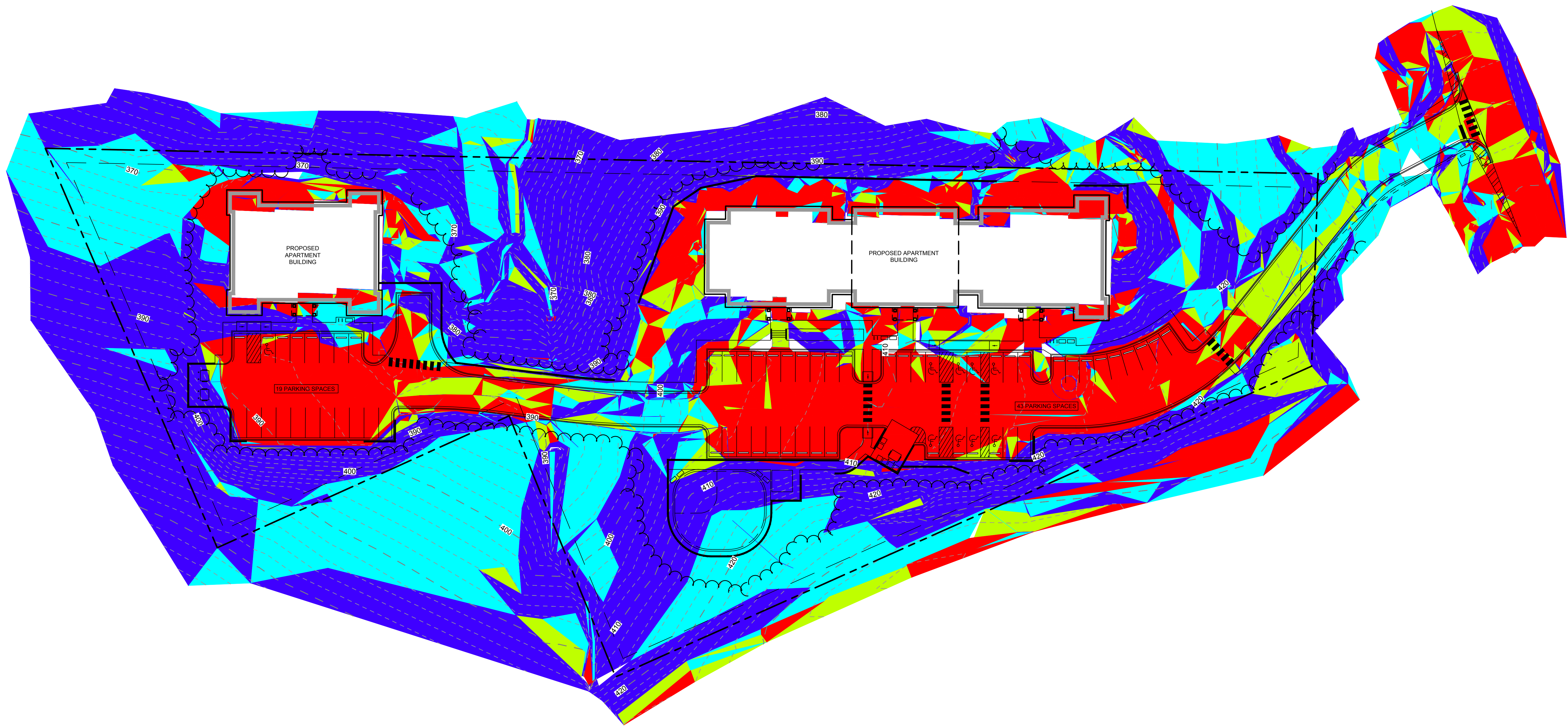
GRADING AND STORM DRAINAGE NOTES

- CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (811) AT LEAST 3-12 BUSINESS DAYS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.)
- EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE CATCH BASINS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
- A LAND DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
- ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD83.
- A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
- ALL HANDICAP PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A 1:50 (2.0%) SLOPE IN ALL DIRECTIONS. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
- CONTRACTOR TO IDENTIFY ALL NECESSARY SPILL CURB SECTION LOCATIONS AND INSTALL TO ENSURE POSITIVE DRAINAGE TO STORM STRUCTURES.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 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 THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
- 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.
- ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
- ALL NEW SLOPES SHOULD HAVE A SLOPE GREATER THAN 3:1.

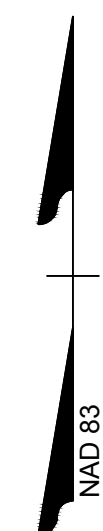
STORM STRUCTURE TABLE		
STRUCTURE #	TOP	DESCRIPTION
CB A1	420.75	NCDOT 840.02 CONCRETE CATCH BASIN
CB A2	414.54	NCDOT 840.02 CONCRETE CATCH BASIN
CB B1	412.50	NCDOT 840.02 CONCRETE CATCH BASIN
CB B2	404.46	NCDOT 840.02 CONCRETE CATCH BASIN
CB C1	383.87	NCDOT 840.02 CONCRETE CATCH BASIN
DI A1	401.93	24 x 24 inch Rectangular Structure
DI A3	402.88	NCDOT 840.02 CONCRETE CATCH BASIN
EX. DI C2	385.49	24 x 24 inch Rectangular Structure
FES C1	378.94	ES-1 for 15 inch Pipe
MH C1	385.58	NCDOT 840.52 PRECAST MANHOLE

STORM PIPE TABLE						
PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH
CB A1 - MH A1	15"	CB A1 - MH A1	417.00	413.80	8.60%	37.20 LF
CB A2 - MH A1	15"	CB A2 - MH A1	411.60	410.32	2.11%	60.72 LF
CB B1 - CB B2	15"	CB B1 - CB B2	406.81	400.75	6.00%	101.01 LF
CB B2 - MH B1	15"	CB B2 - MH B1	395.71	394.44	5.99%	21.15 LF
CB C1 - MH C1	15"	CB C1 - MH C1	379.09	378.09	3.46%	26.27 LF
DI A2 - DI A3	15"	DI A2 - DI A3	397.81	397.26	2.01%	27.41 LF
EX. DI C2 - MH C1	15"	EX. DI C2 - MH C1	381.20	380.47	2.51%	29.08 LF
MH A1 - DI A1	15"	MH A1 - DI A1	399.59	398.76	2.00%	41.65 LF
MH C1 - FES C1	15"	MH C1 - FES C1	378.00	377.50	2.08%	24.04 LF

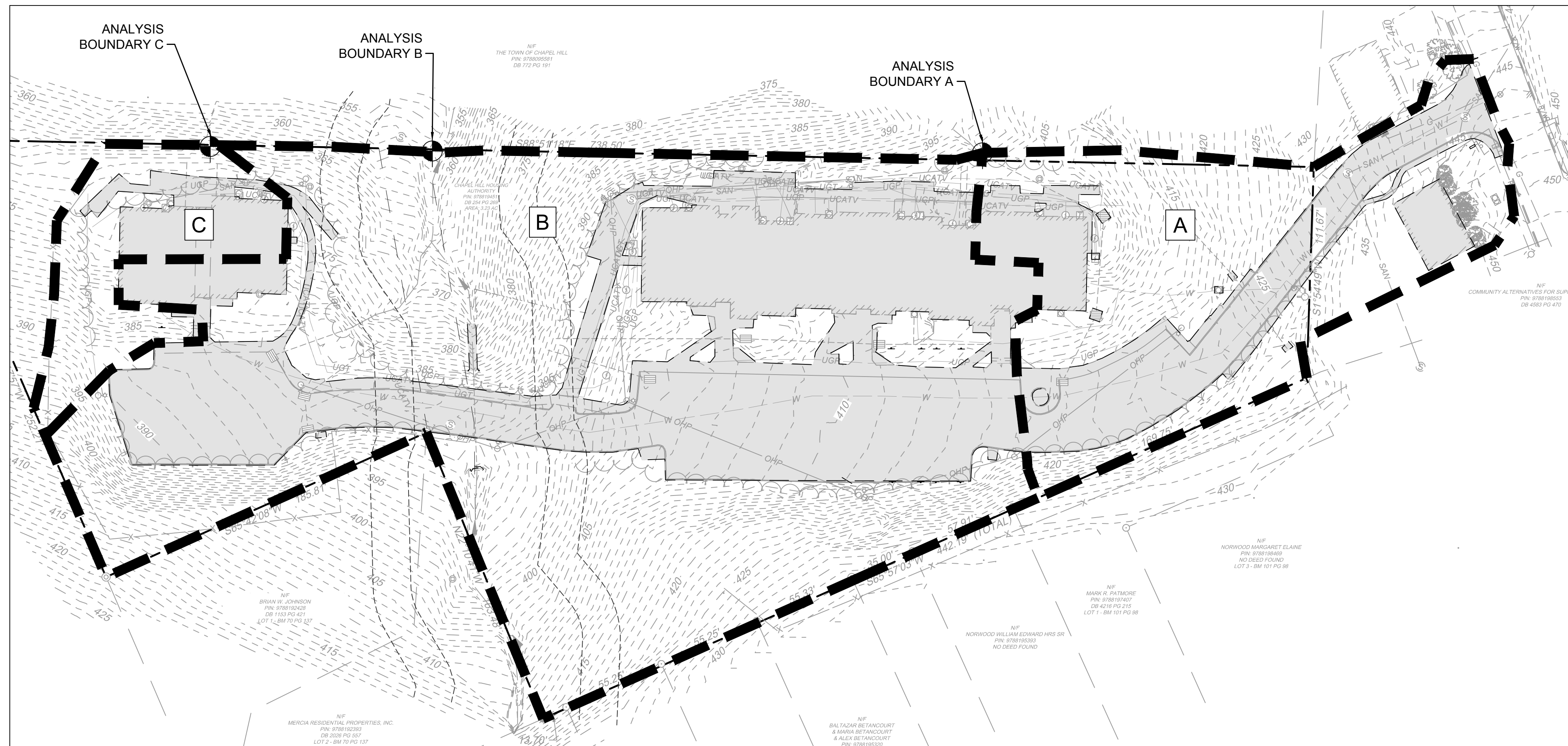




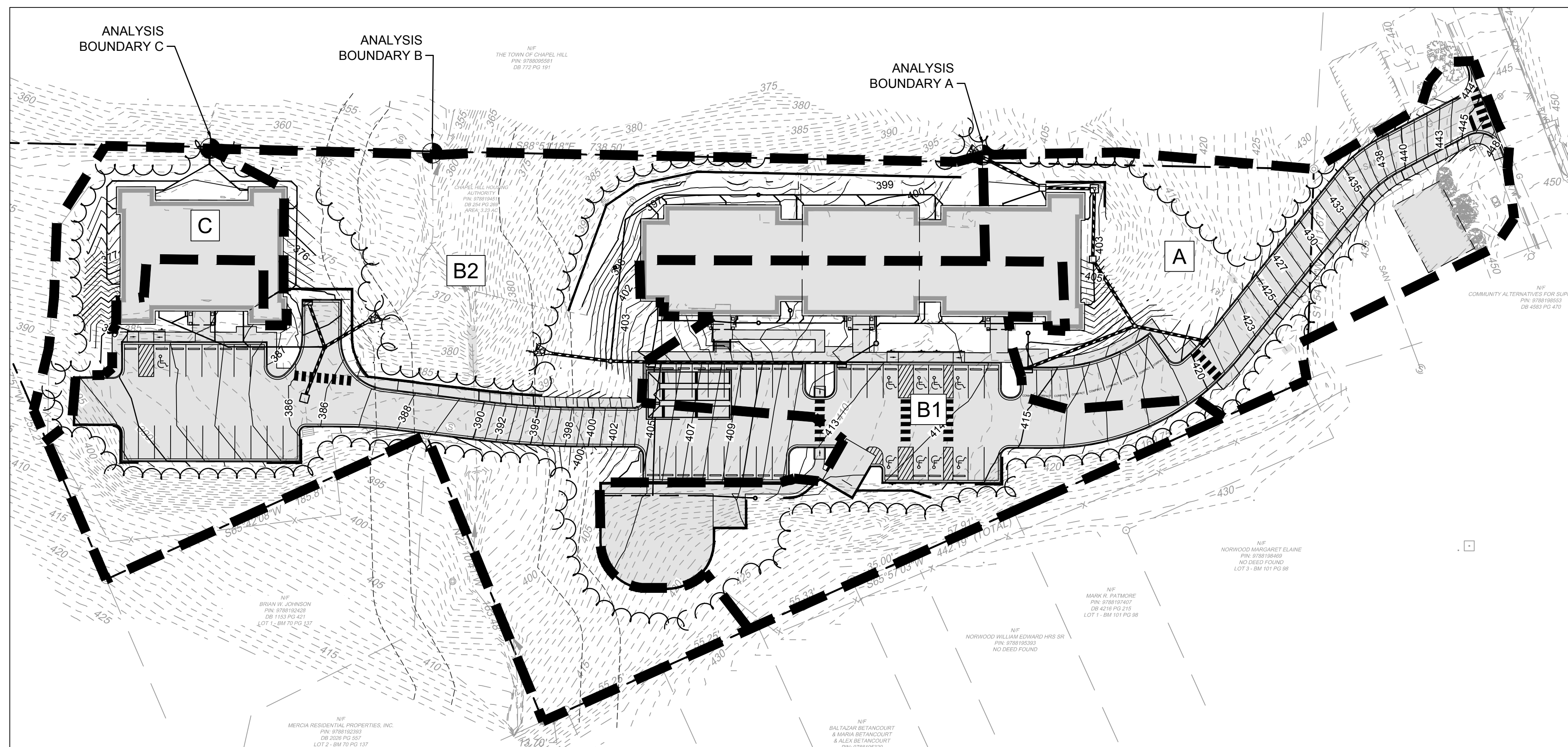
SLOPES LEGEND				
	GRADE	AREA (SF)	AREA (AC)	DISTURBED AREA (SF)
	<10 PERCENT SLOPES	35,893	0.82	34,475
	10 TO <15 PERCENT SLOPES	10,667	0.24	9,480
	15 TO <25 PERCENT SLOPES	37,148	0.85	13,103
	25 + PERCENT SLOPES	60,286	1.38	20,325



PROJECT NO:	48833
DATE:	DECEMBER 1, 2022
REVISIONS	
DATE	DESCRIPTION



PRE DEVELOPMENT



POST DEVELOPMENT

ANALYSIS POINT A						
	DRAINAGE AREA (ACRES)	IMPERVIOUS AREA (ACRES)	CURVE NUMBER	Q1	Q2	Q25
PRE DEVELOPMENT	0.77	0.32	77	1.37	1.95	4.60
POST DEVELOPMENT	0.69	0.27	79	1.36	1.90	4.33

ANALYSIS POINT B						
	DRAINAGE AREA (ACRES)	IMPERVIOUS AREA (ACRES)	CURVE NUMBER	Q1	Q2	Q25
PRE DEVELOPMENT	2.32	0.98	75	3.39	4.99	12.41
POST DEVELOPMENT B1 (UD)	0.79	0.51	85	0.65	1.61	4.00
POST DEVELOPMENT B2 (BYPASS)	1.64	0.57	74	2.45	3.62	9.04
POST DEVELOPMENT B	2.43	1.08		2.35	4.77	12.39

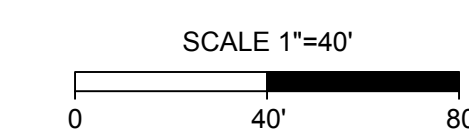
ANALYSIS POINT C						
	DRAINAGE AREA (ACRES)	IMPERVIOUS AREA (ACRES)	CURVE NUMBER	Q1	Q2	Q25
PRE DEVELOPMENT	0.23	0.09	75	0.37	0.53	1.30
POST DEVELOPMENT	0.21	0.08	77	0.37	0.53	1.26

STORMWATER QUALITY CALCULATIONS

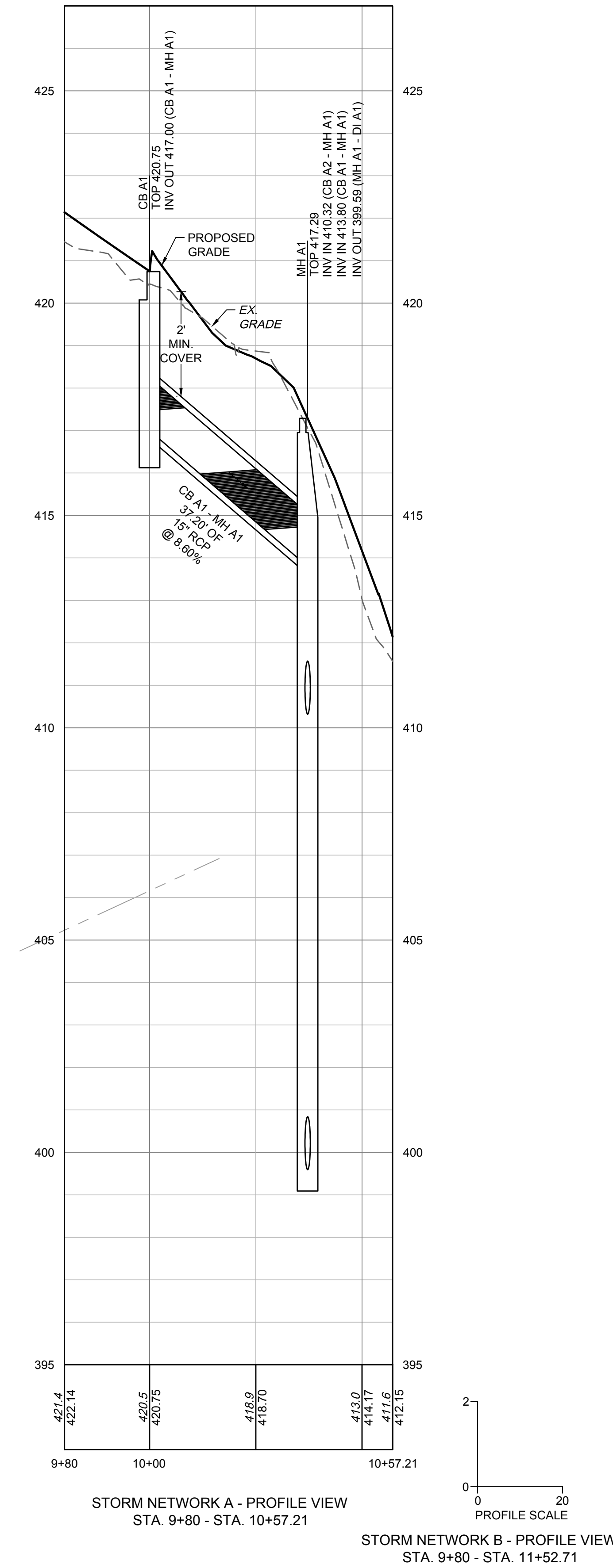
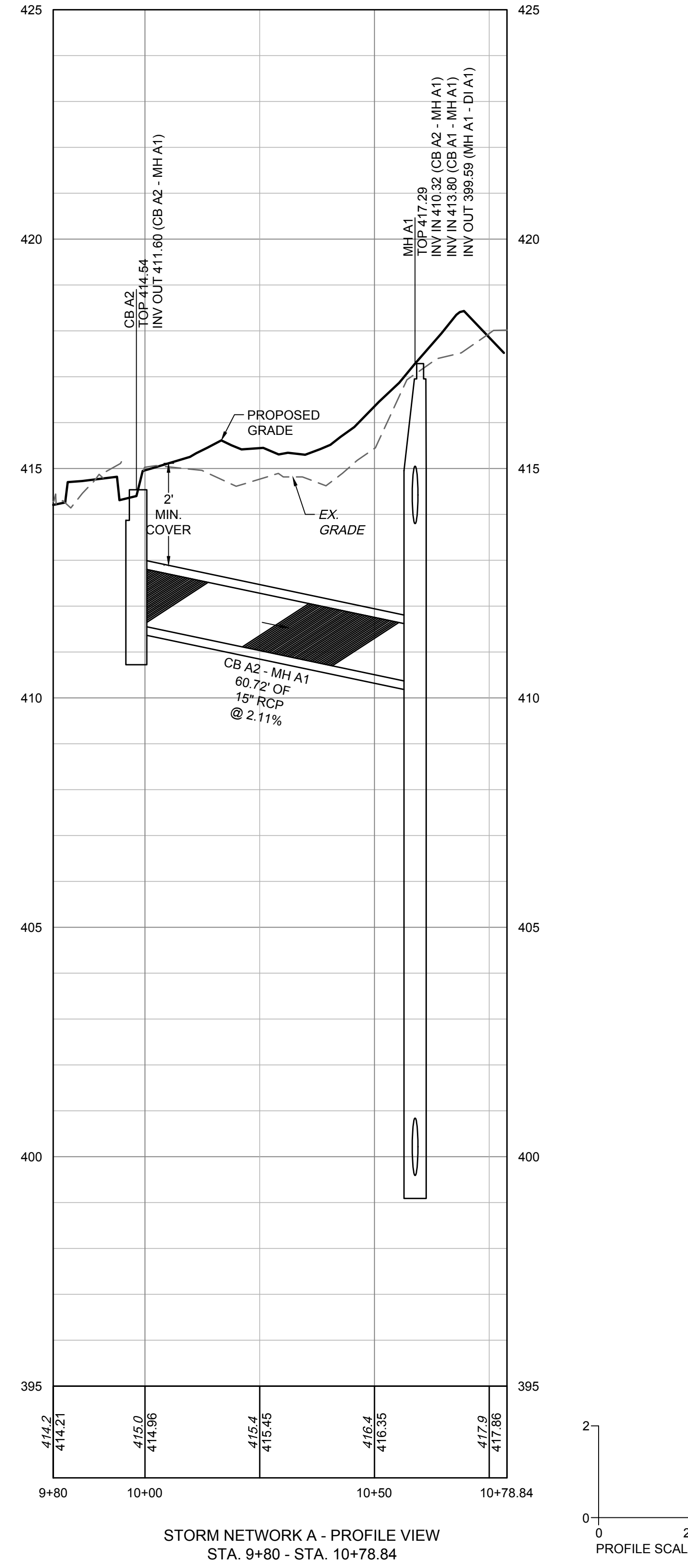
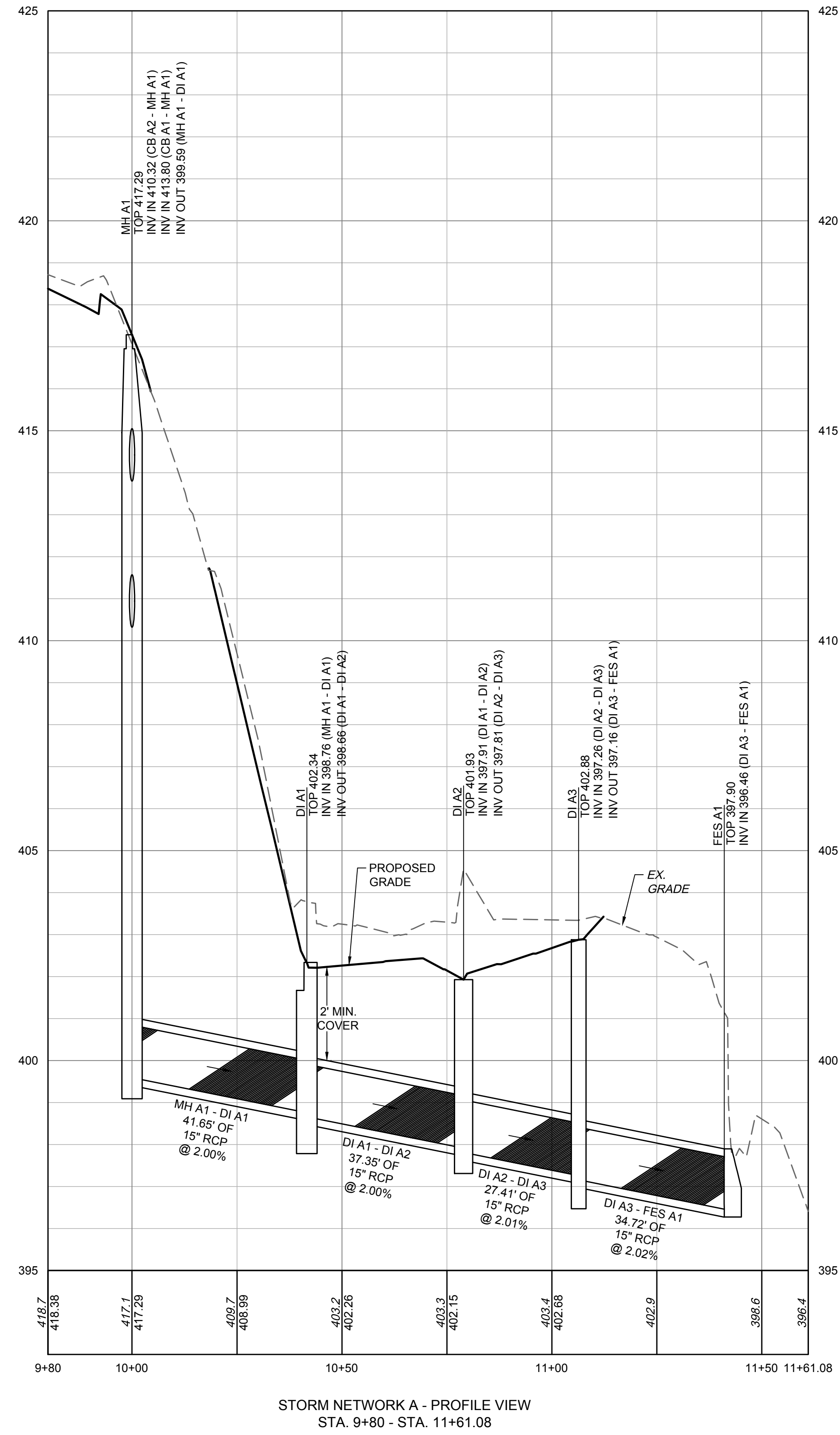
PRE DEVELOPMENT ONSITE IMPERVIOUS SURFACES = 1.29 ACRES
 POST DEVELOPMENT ONSITE IMPERVIOUS SURFACES = 1.30 ACRES
 TOTAL AREA REQUIRE TO BE TREATED = 0.01 ACRES

LAND USE SUMMARY		
LANDUSE	EXISTING AREA (SF)	PROPOSED AREA (SF)
ONSITE IMPERVIOUS	56,192 (1.29 AC)	56,742 (1.30 AC)
OFFSITE IMPERVIOUS	4,194 (0.10 AC)	4,517 (0.10 AC)
TOTAL AREA (ACRES)	1.39 ACRES	1.40 ACRES

LEGEND	
	DRAINAGE AREA BOUNDARY
	IMPERVIOUS

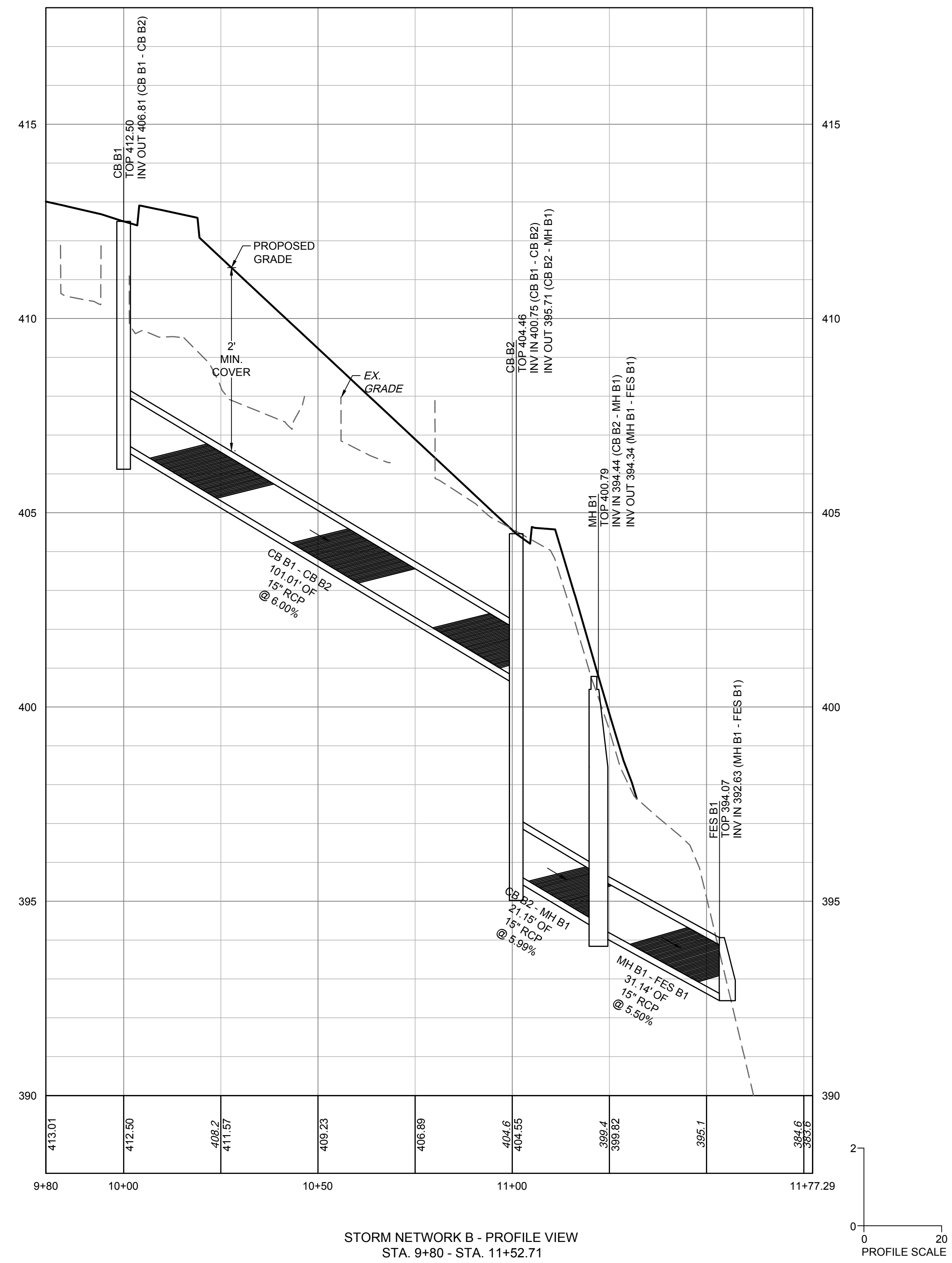
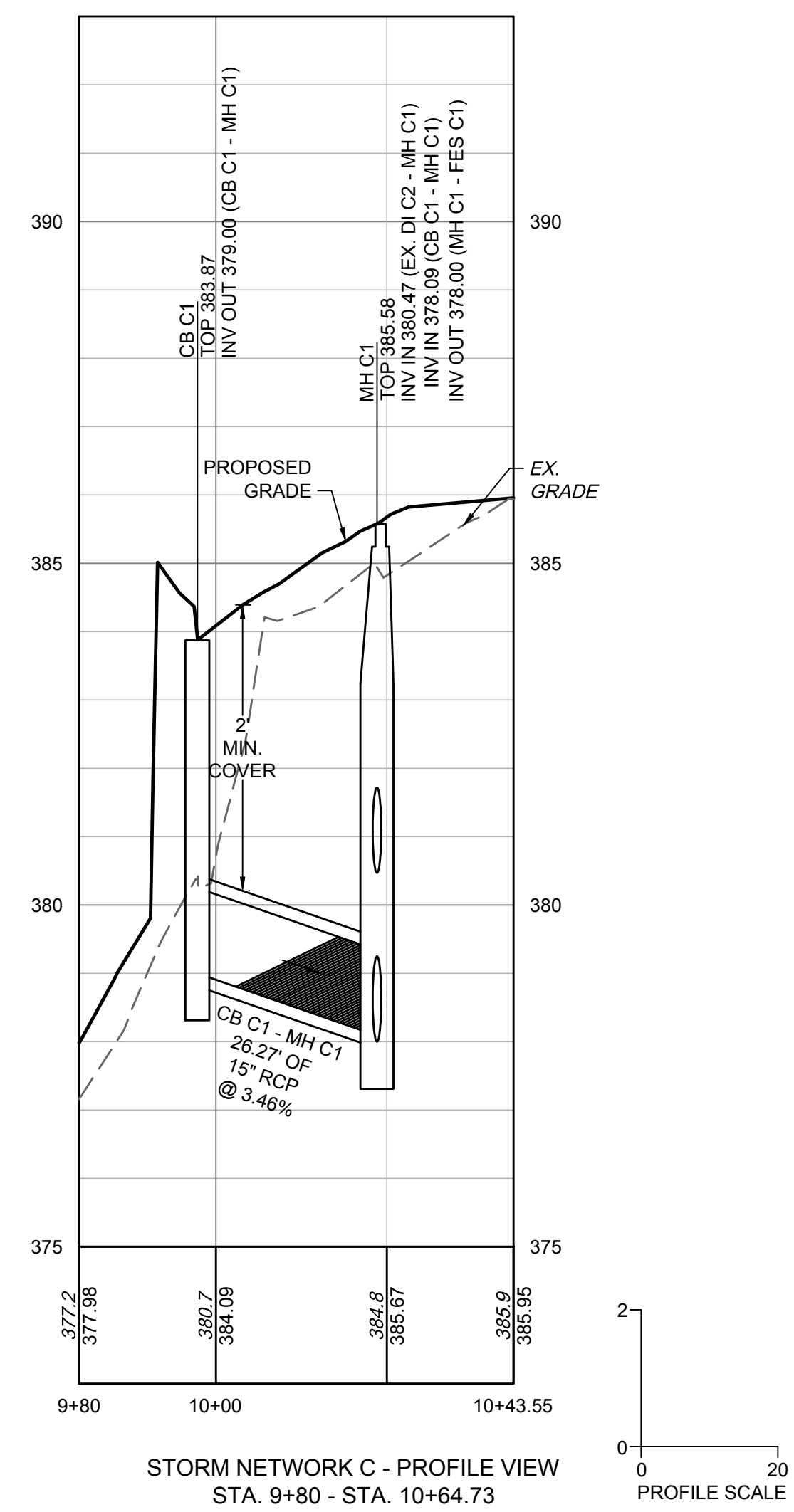
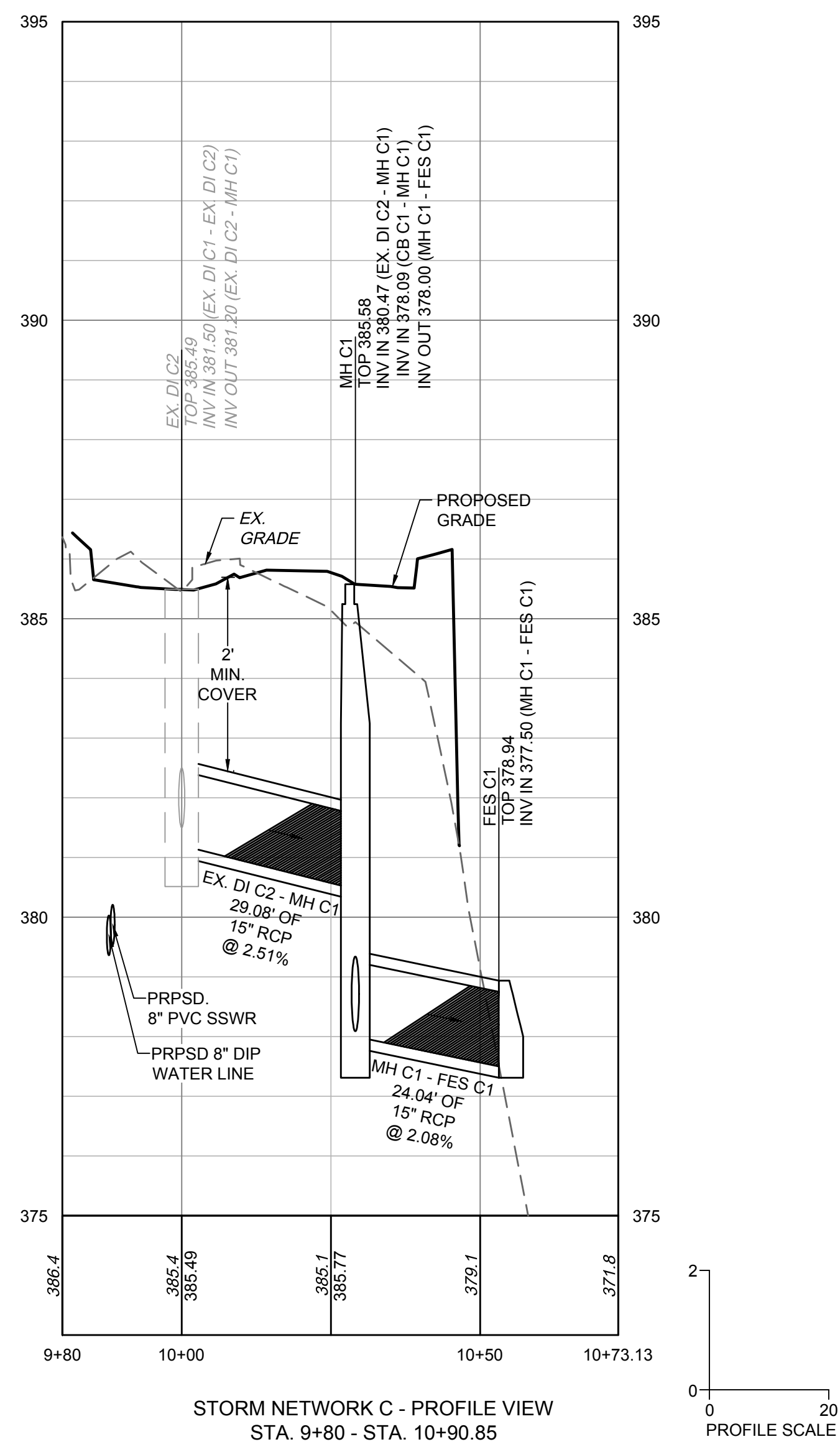


NAD 83



PROJECT NO: 48833
DATE: DECEMBER 1, 2022

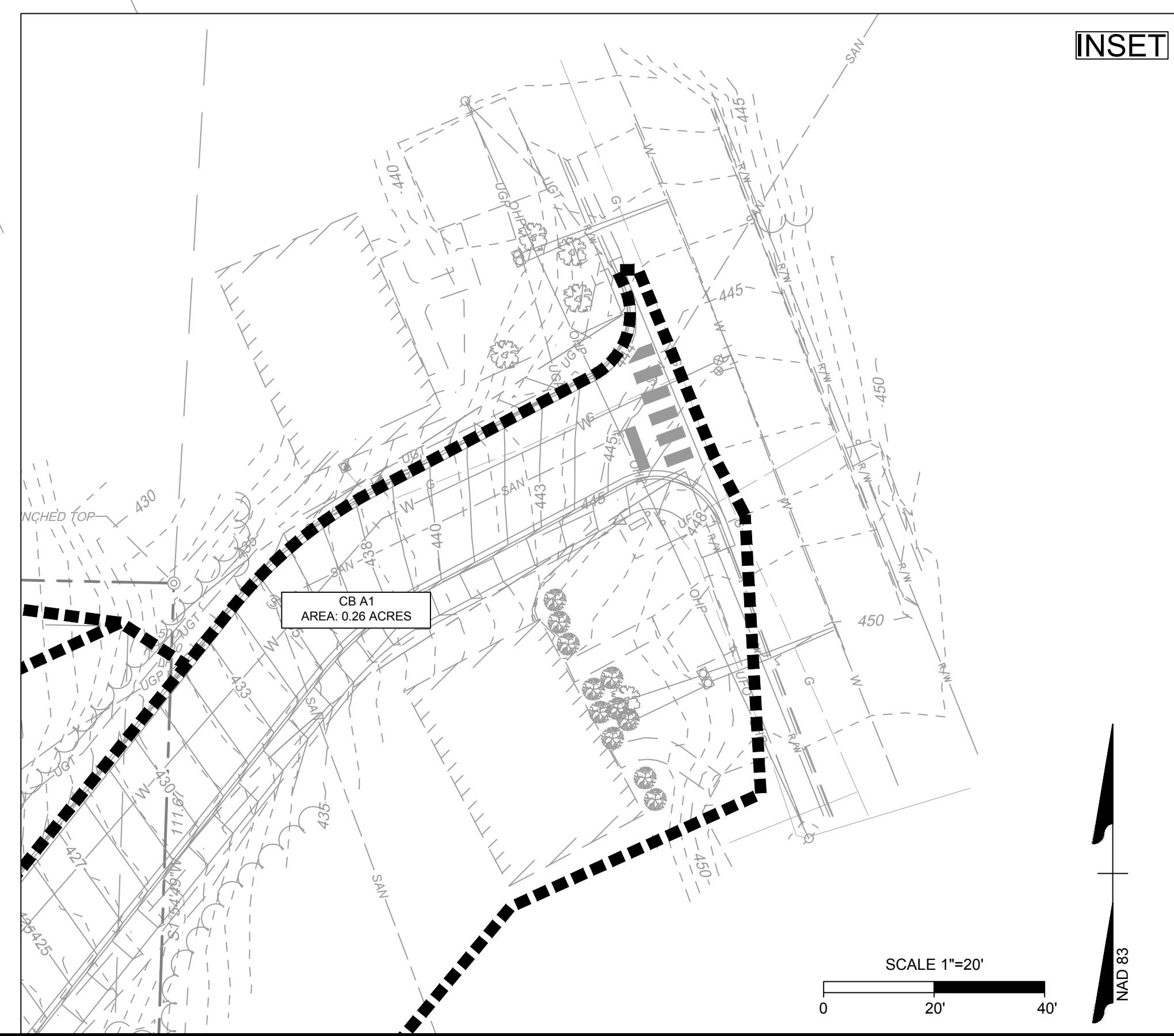
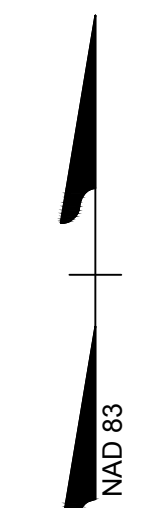
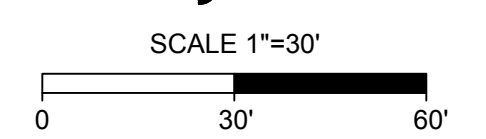
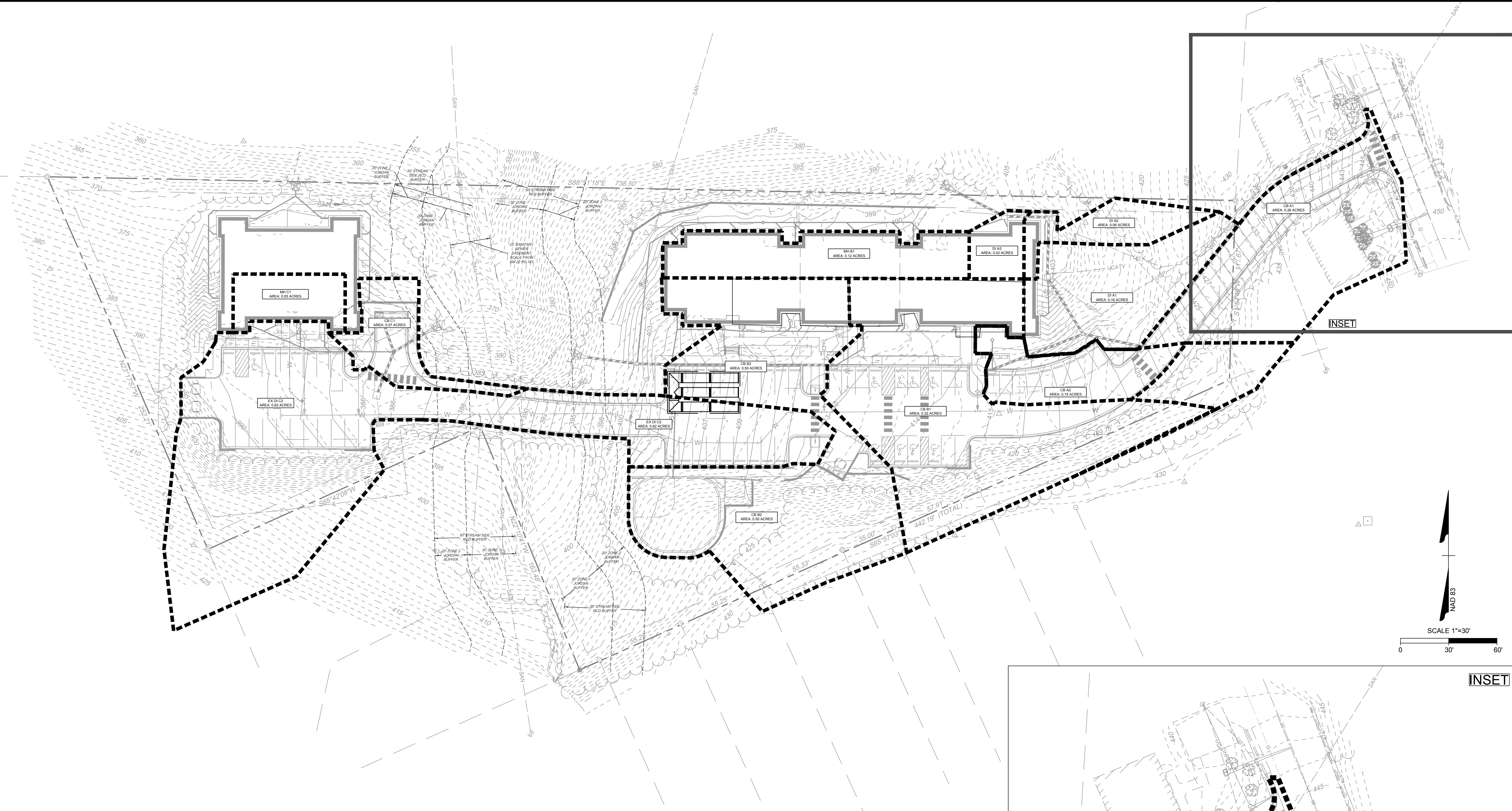
REVISIONS	
DATE	DESCRIPTION



Trinity Court
TOWN OF CHAPEL HILL
751 TRINITY CT, CHAPEL HILL, NC
27516

PROJECT NO: 48833
DATE: DECEMBER 1, 2022

DATE	REVISIONS	DESCRIPTION



GRADING AND STORM DRAINAGE NOTES

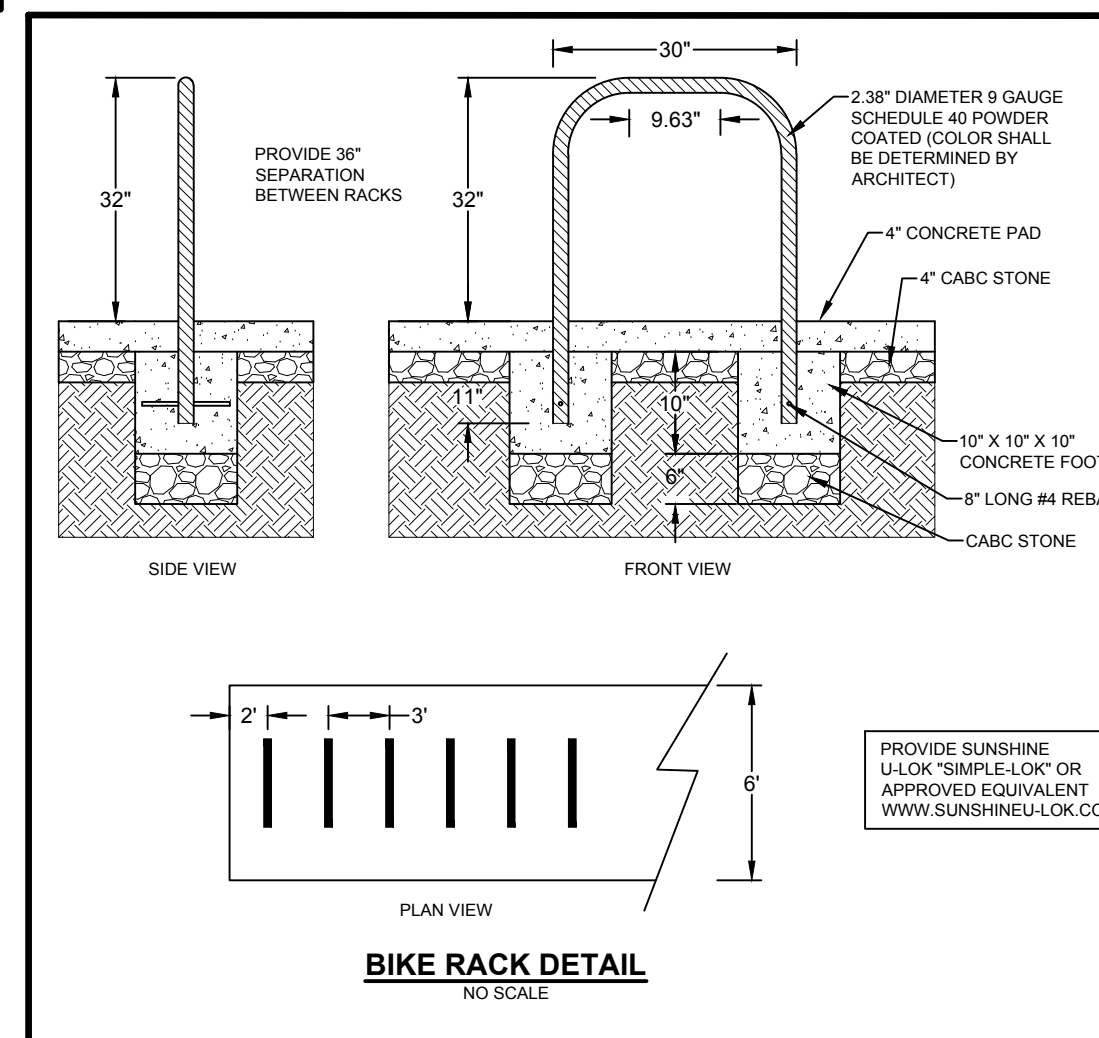
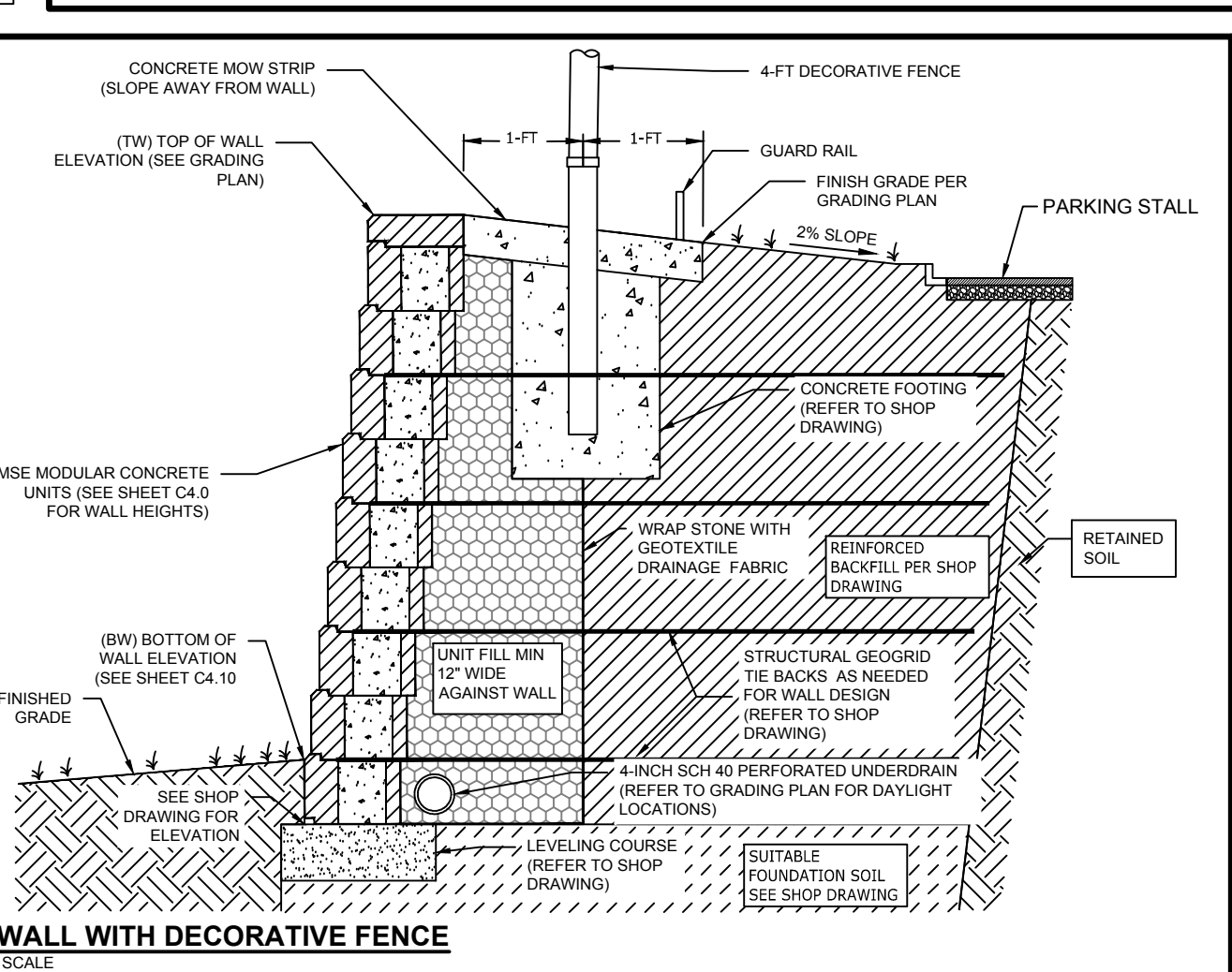
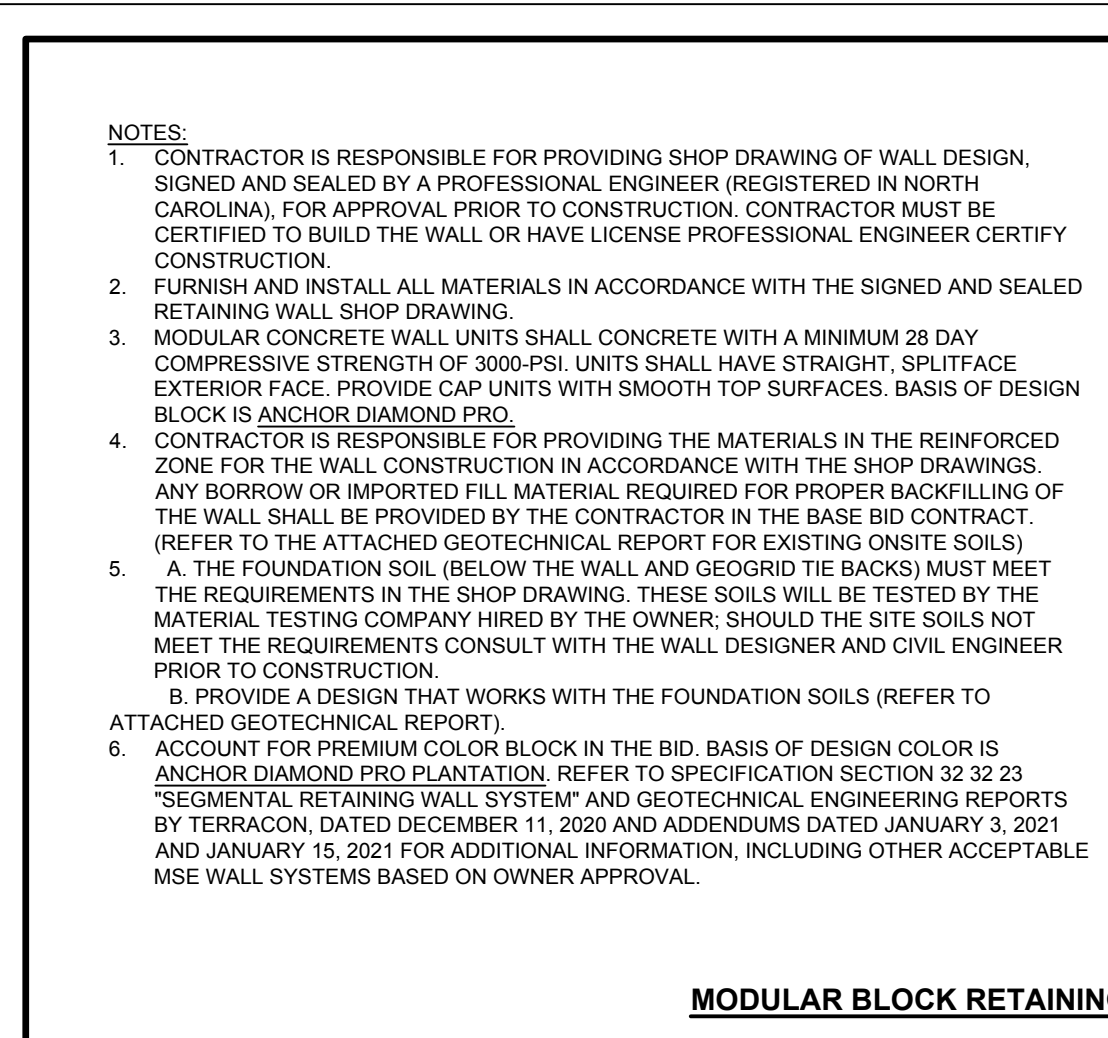
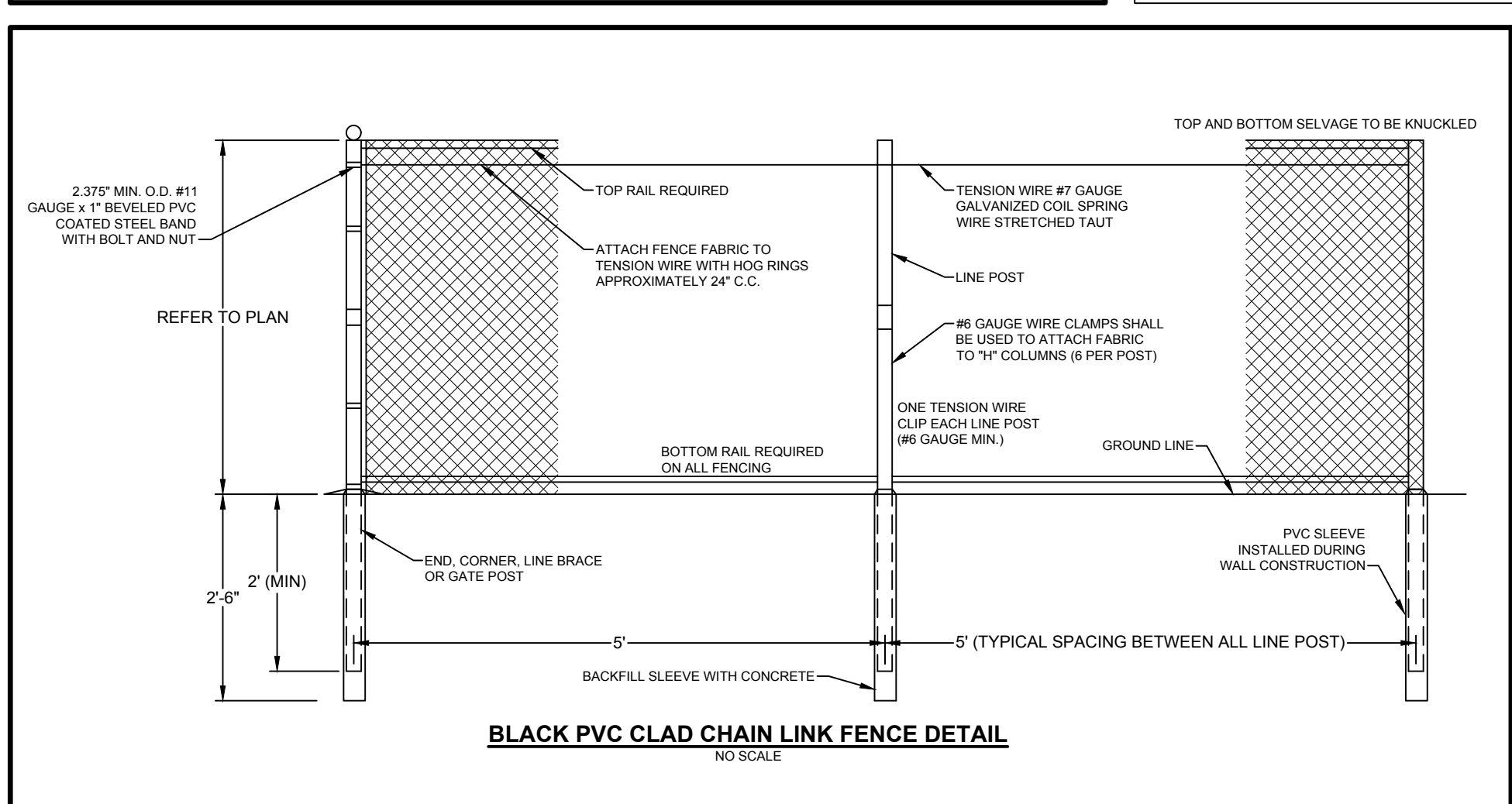
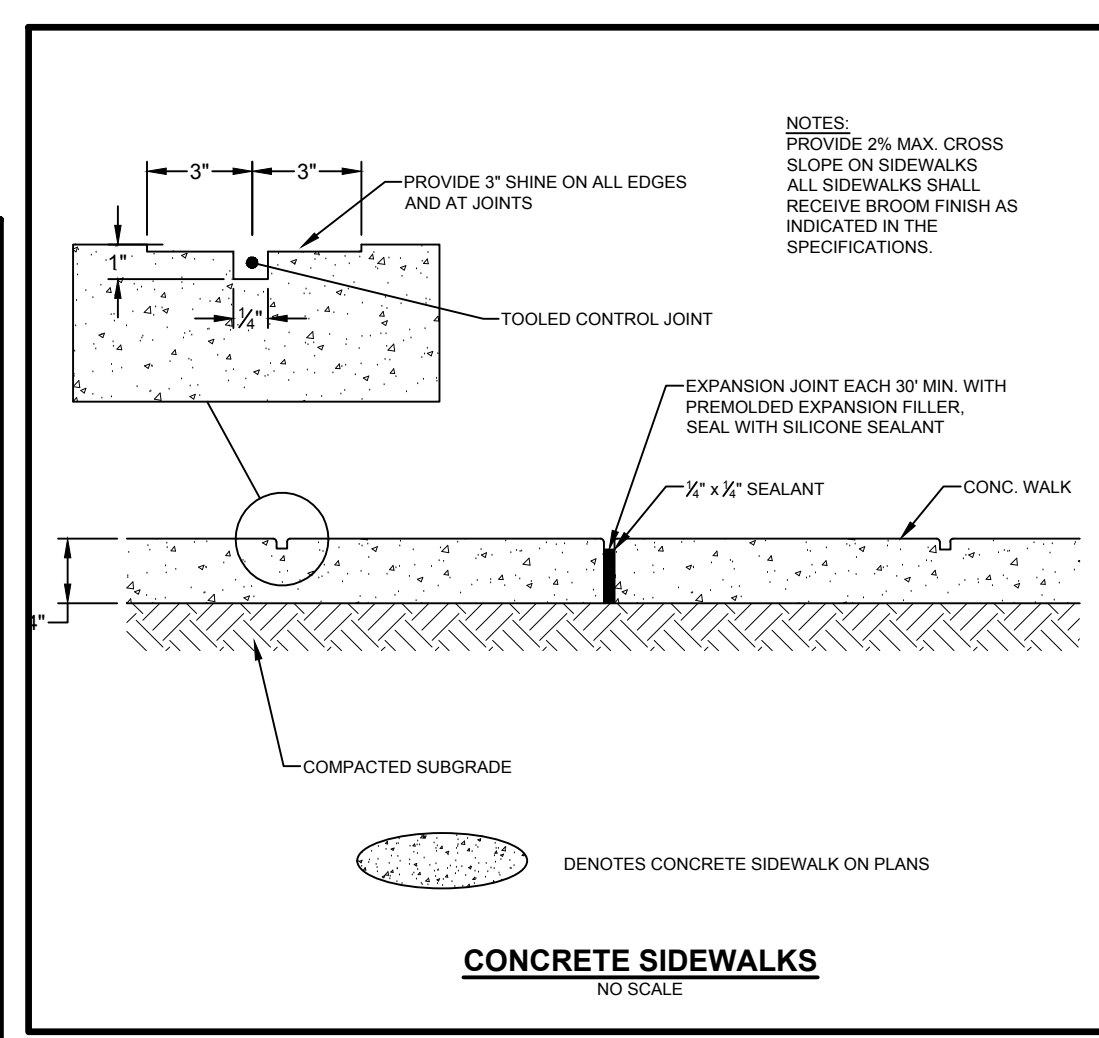
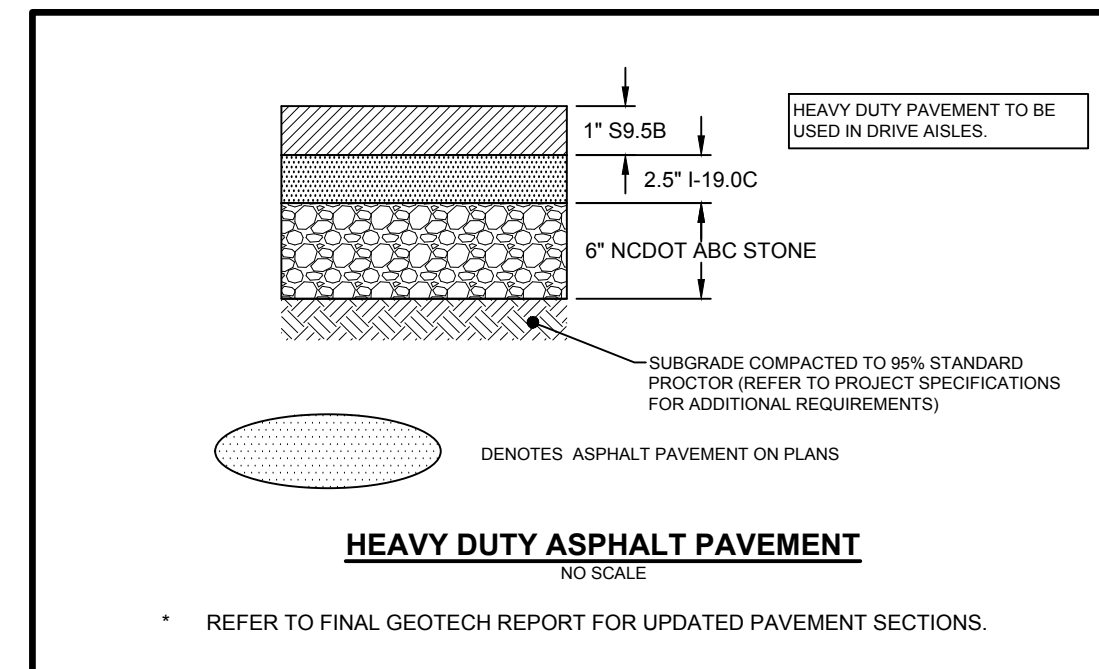
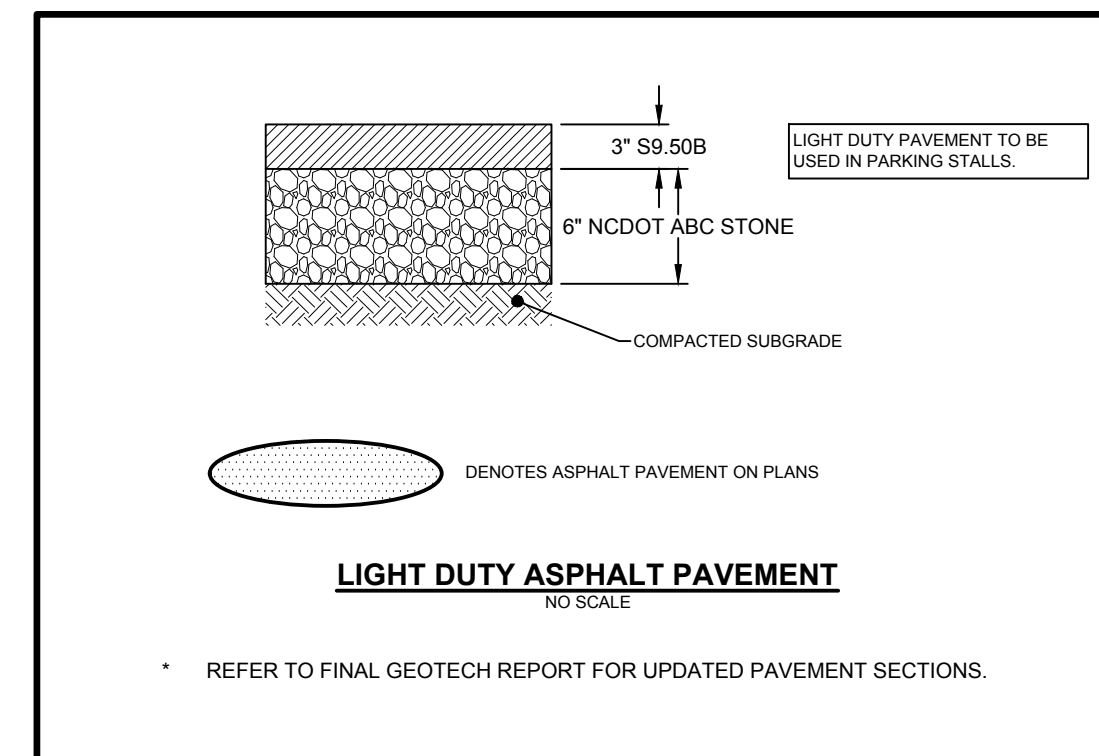
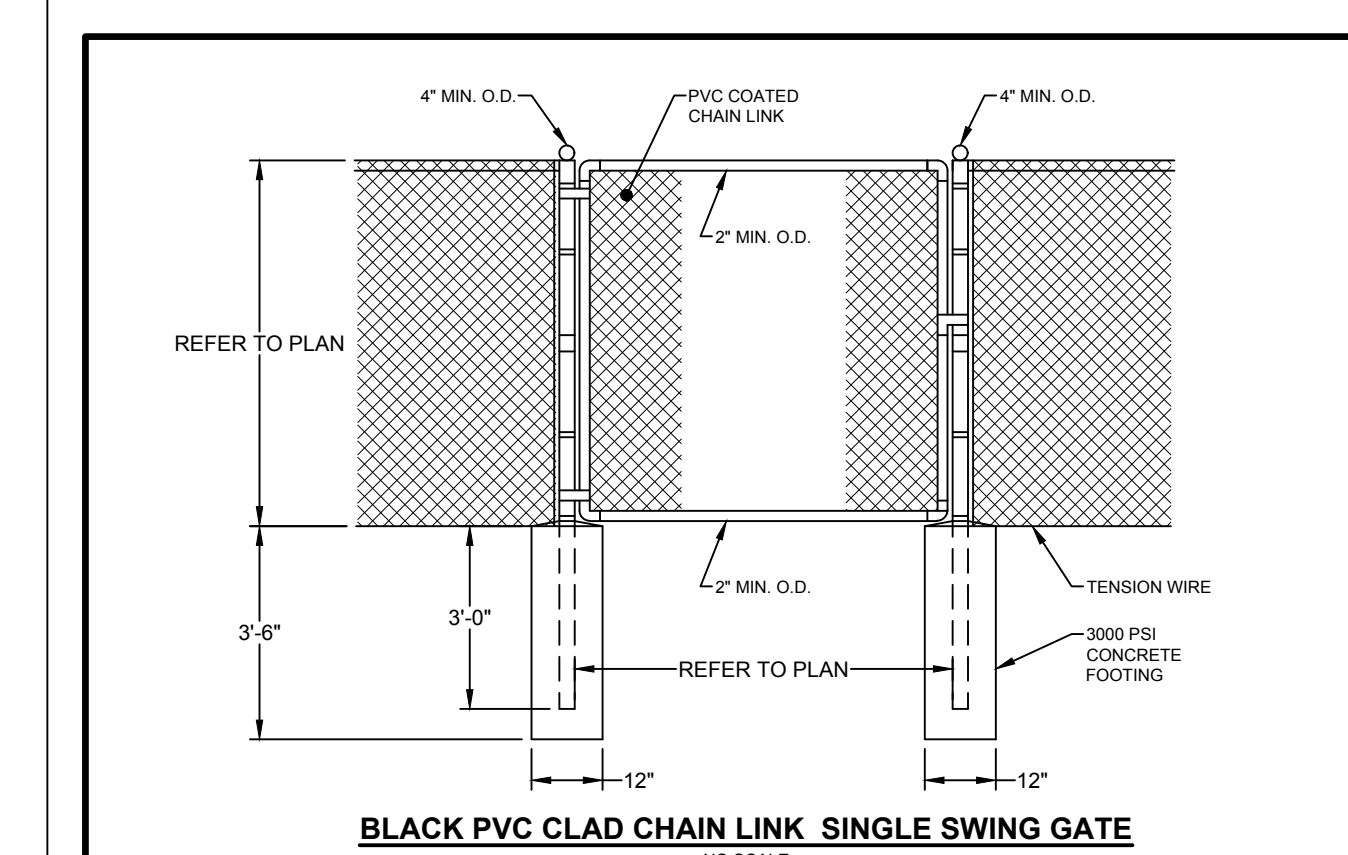
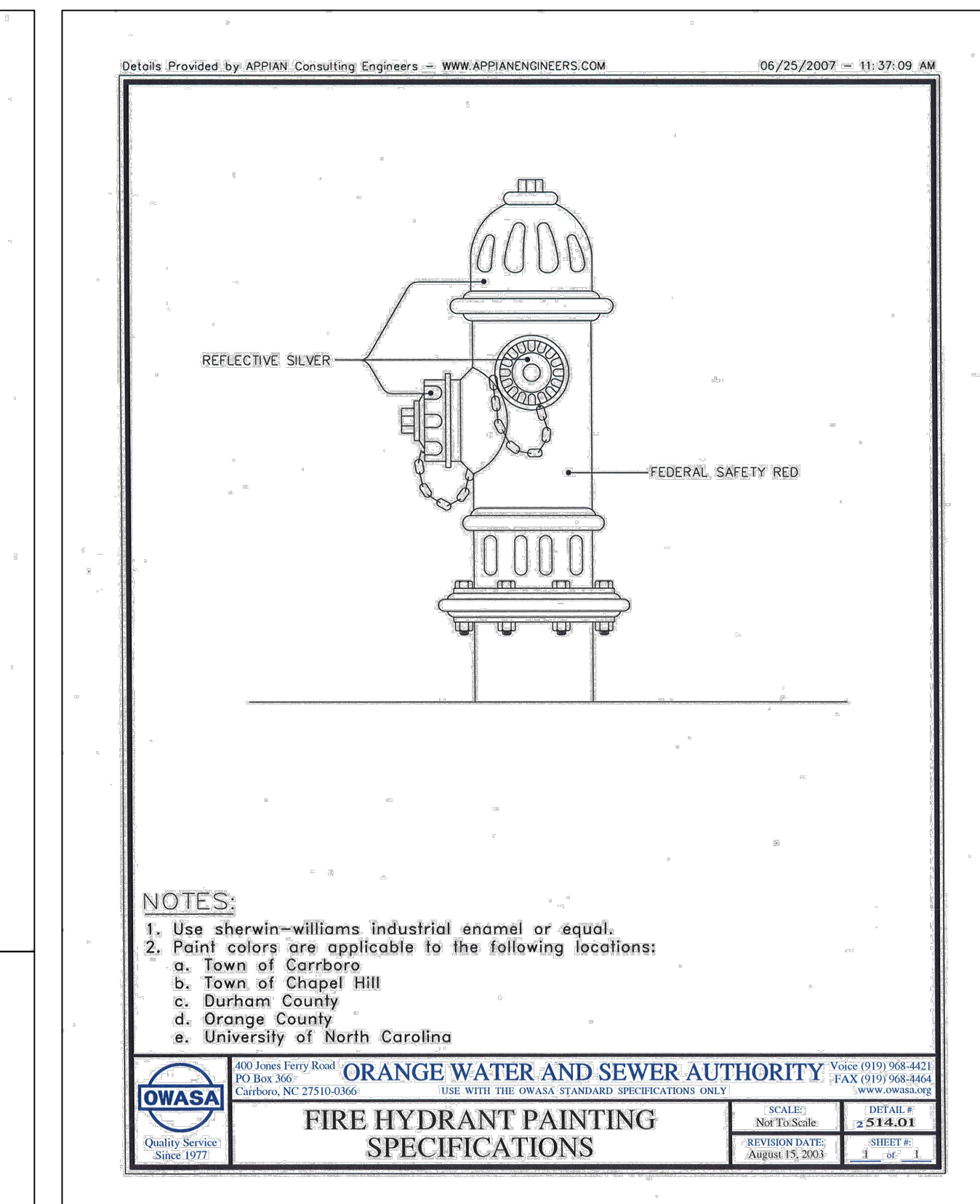
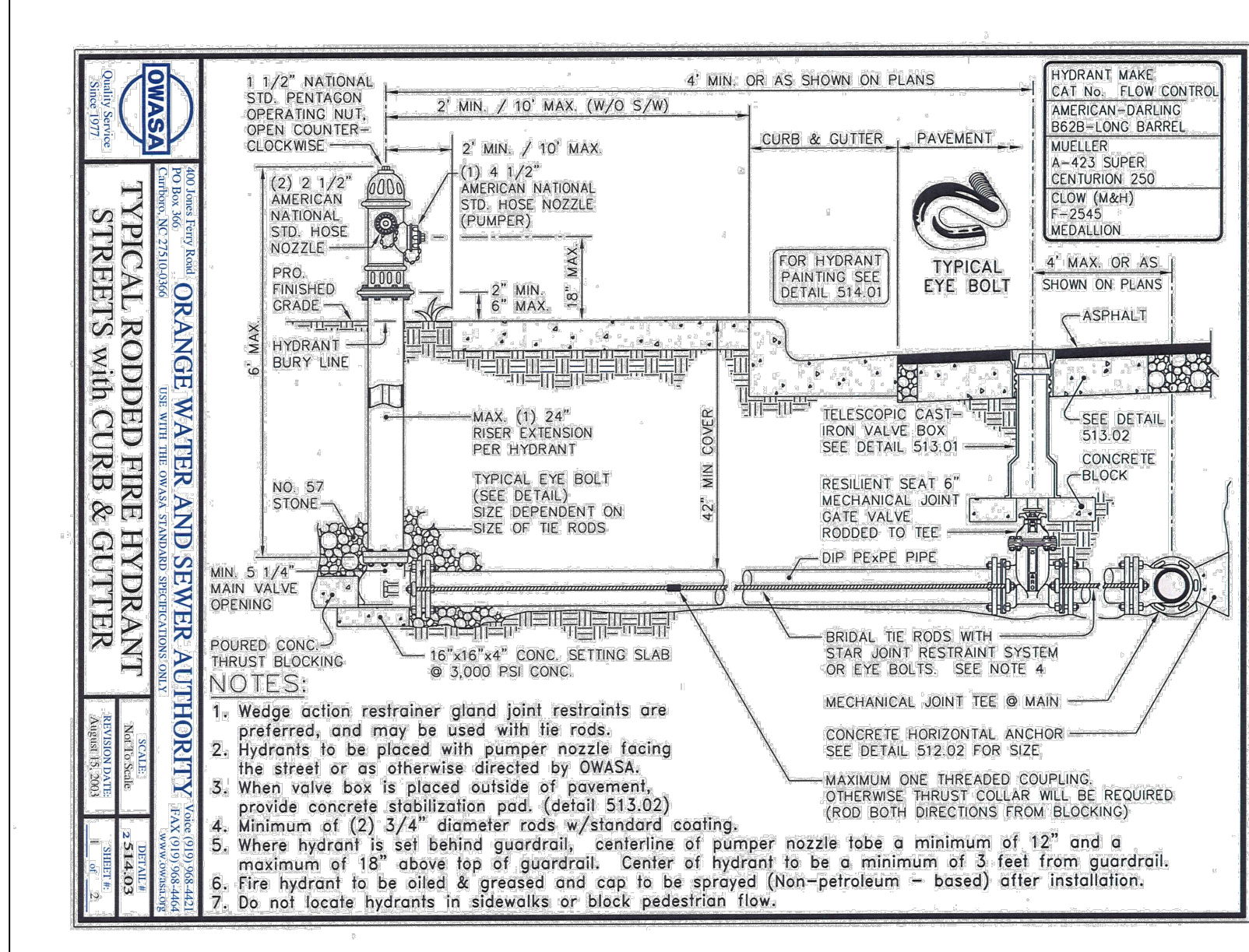
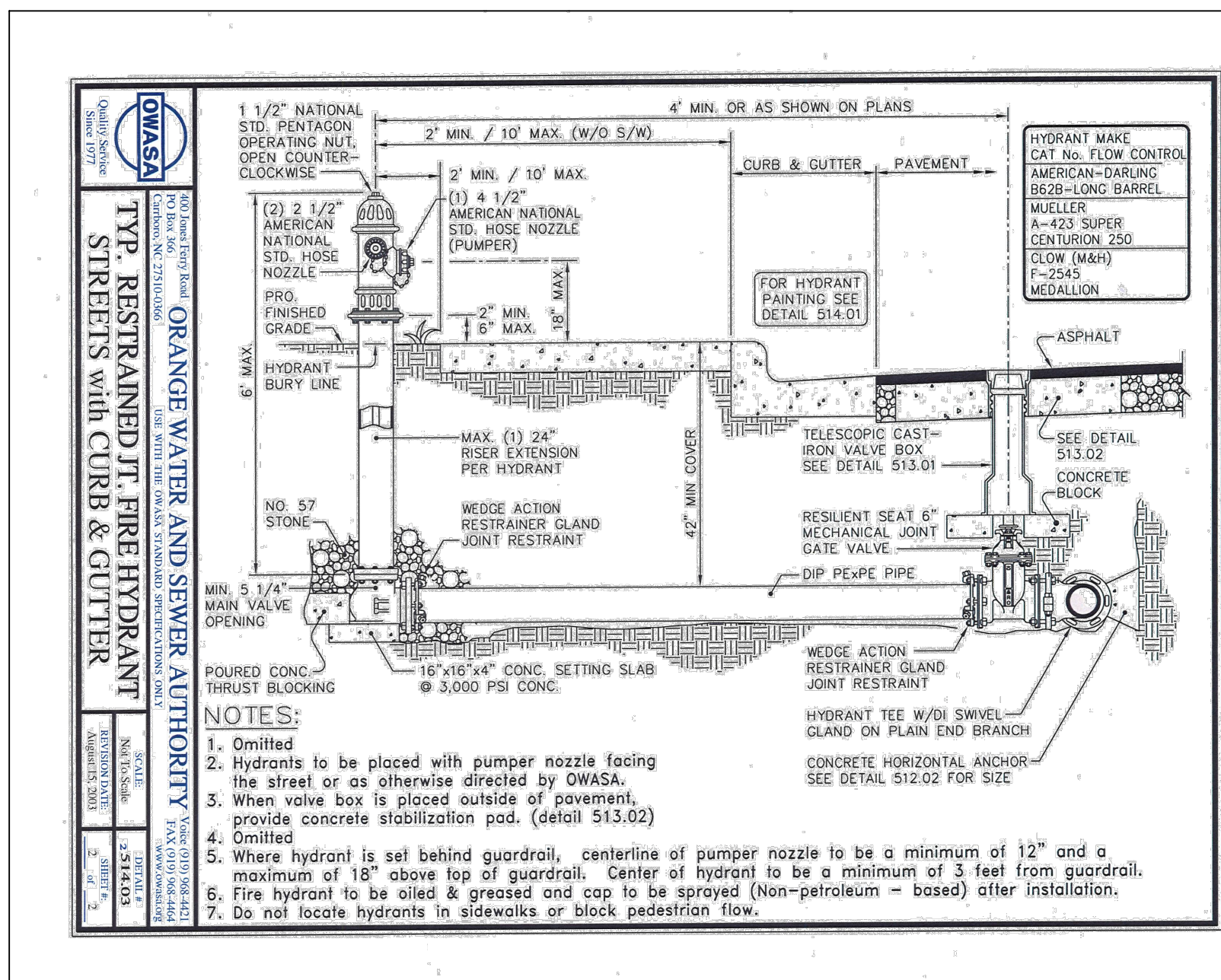
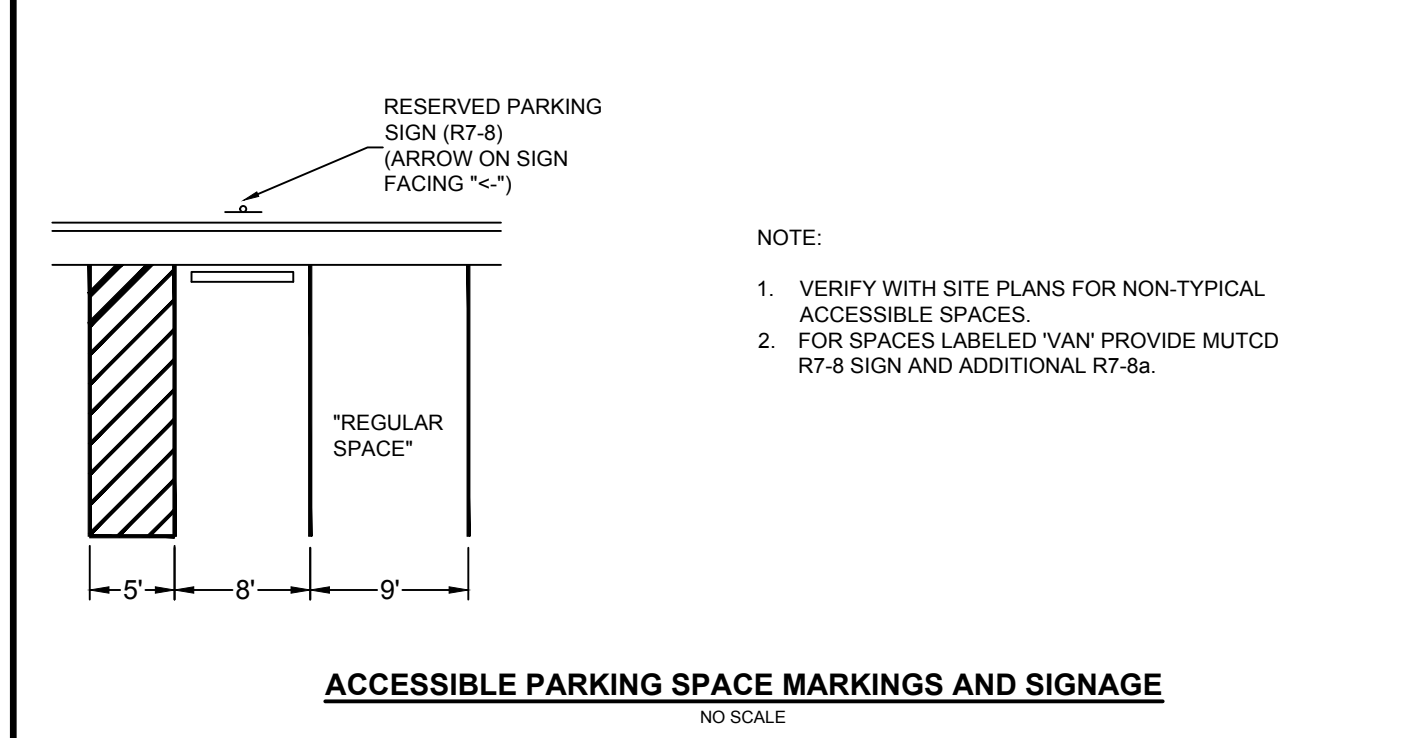
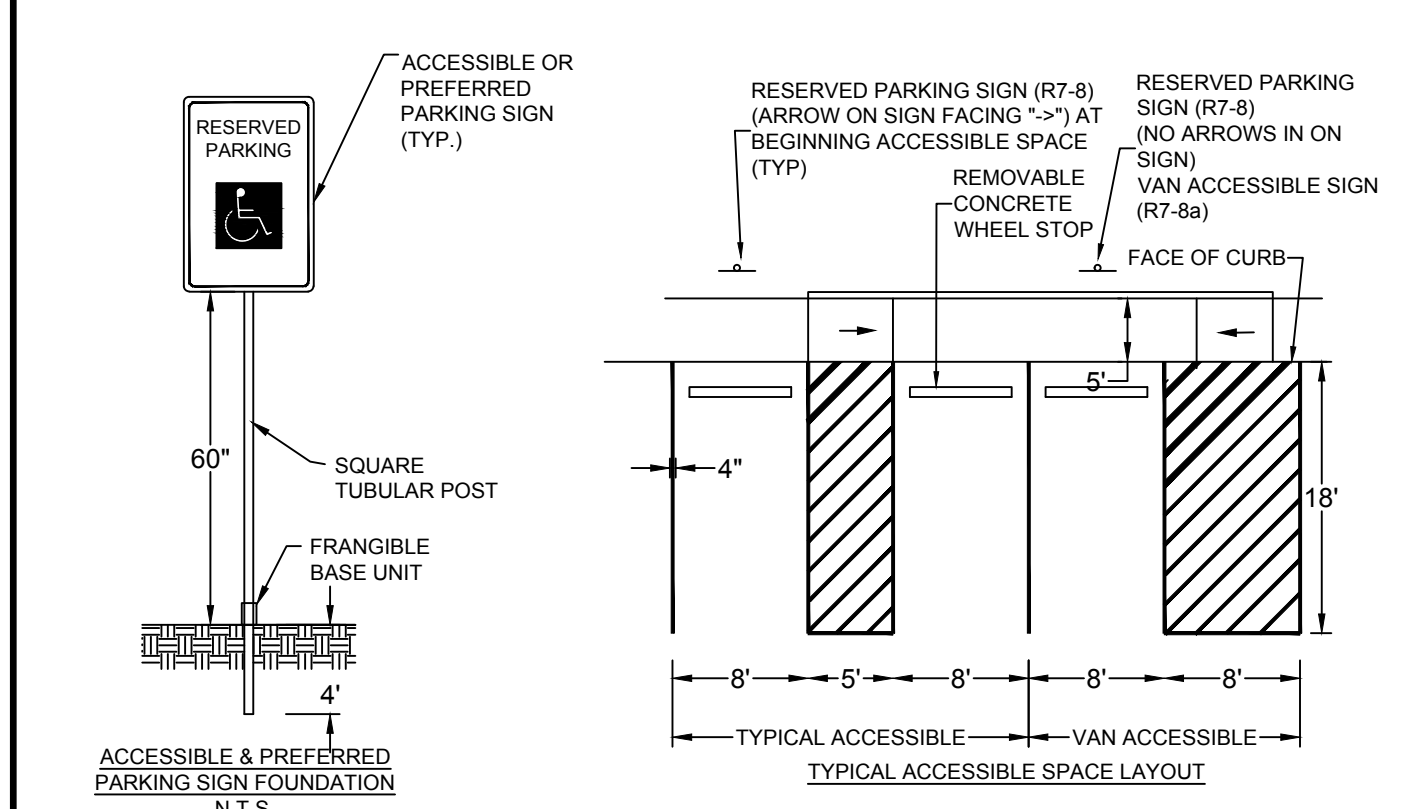
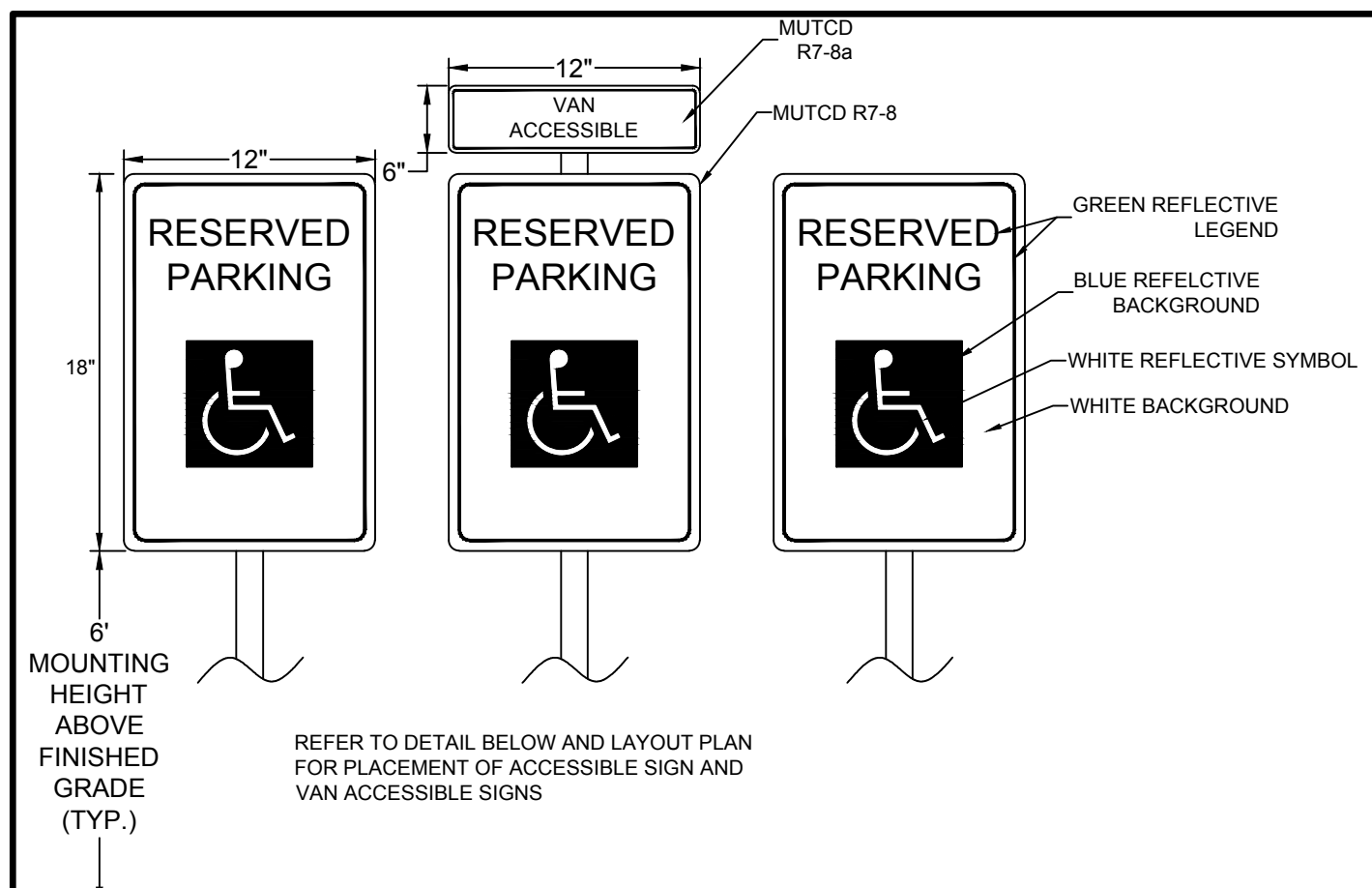
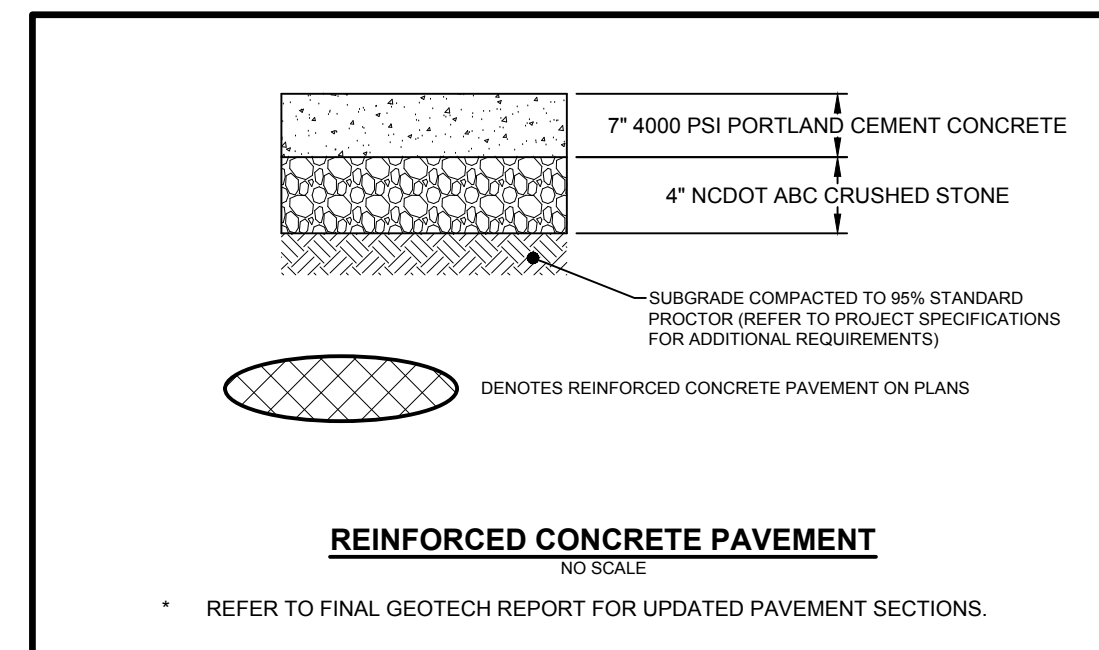
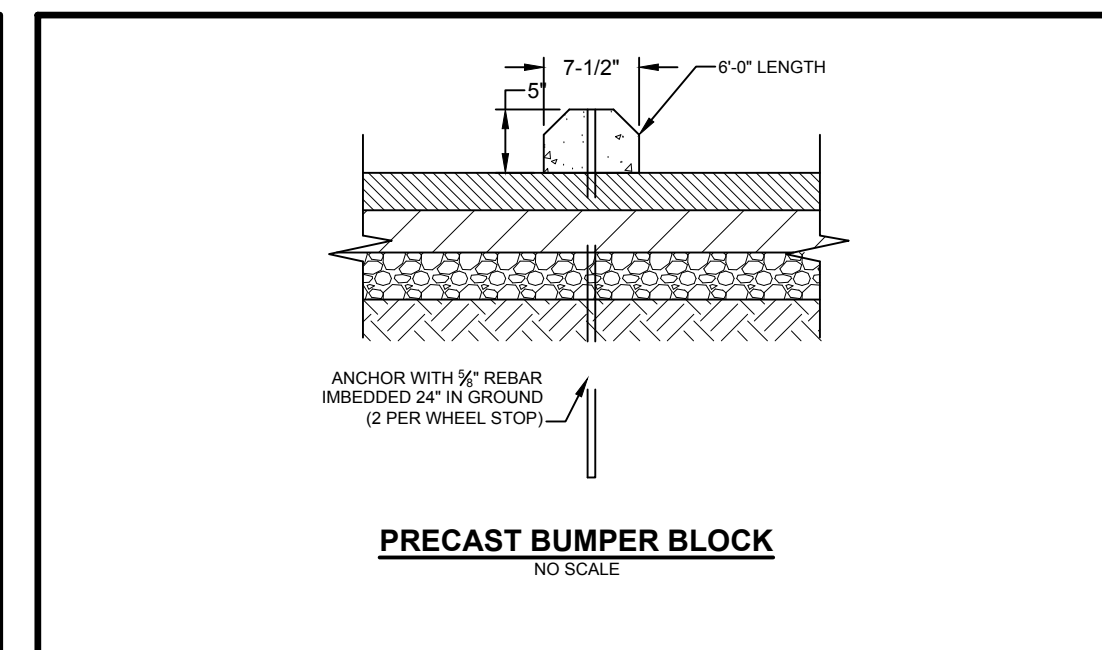
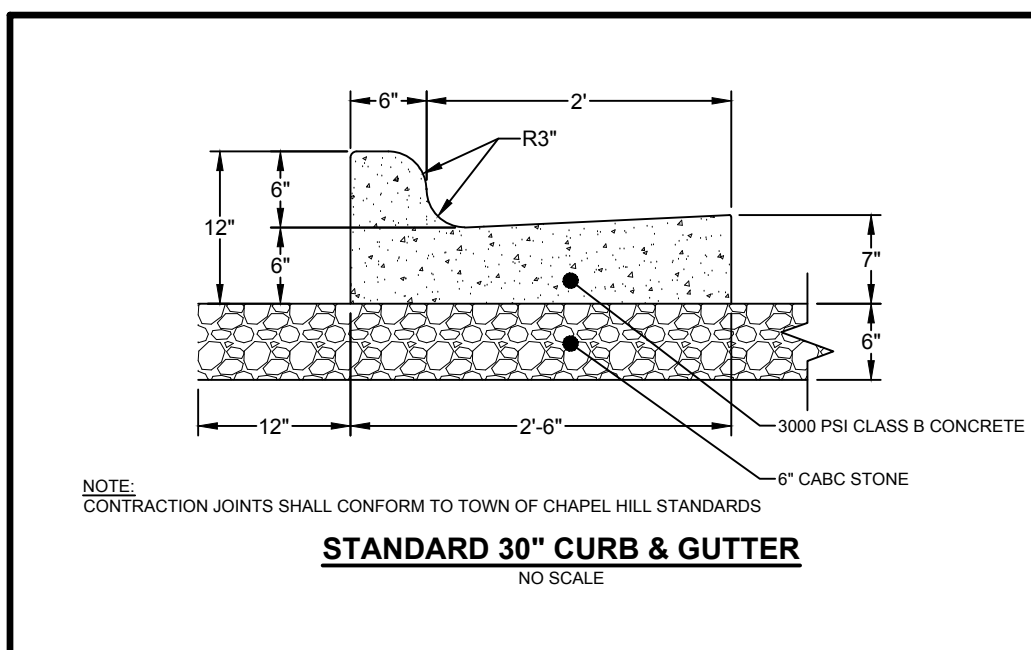
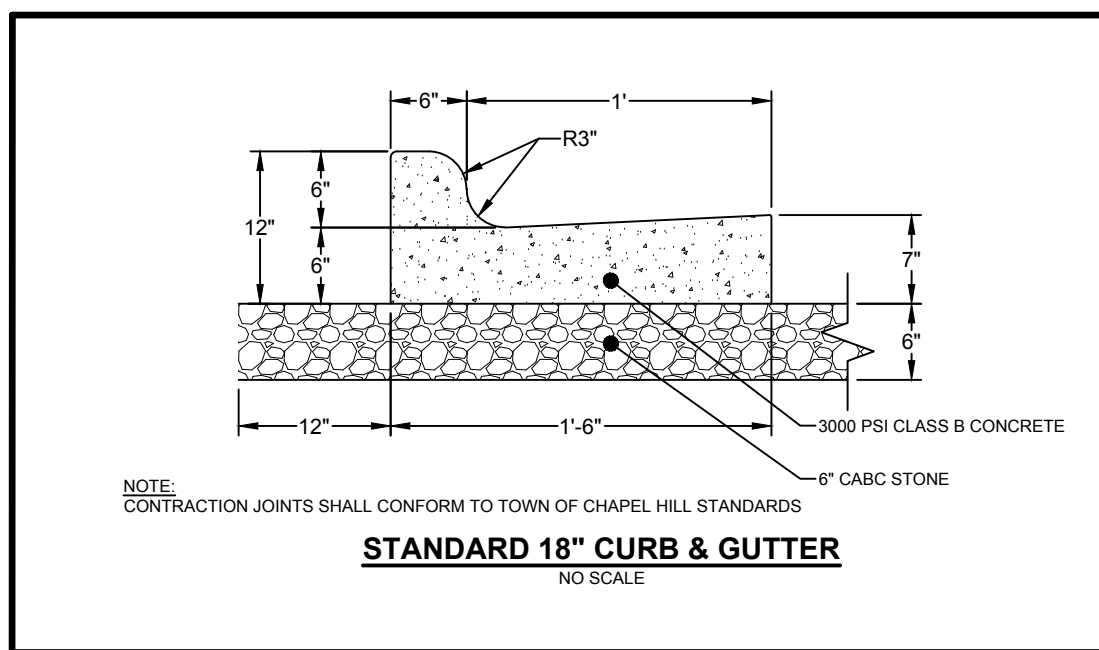
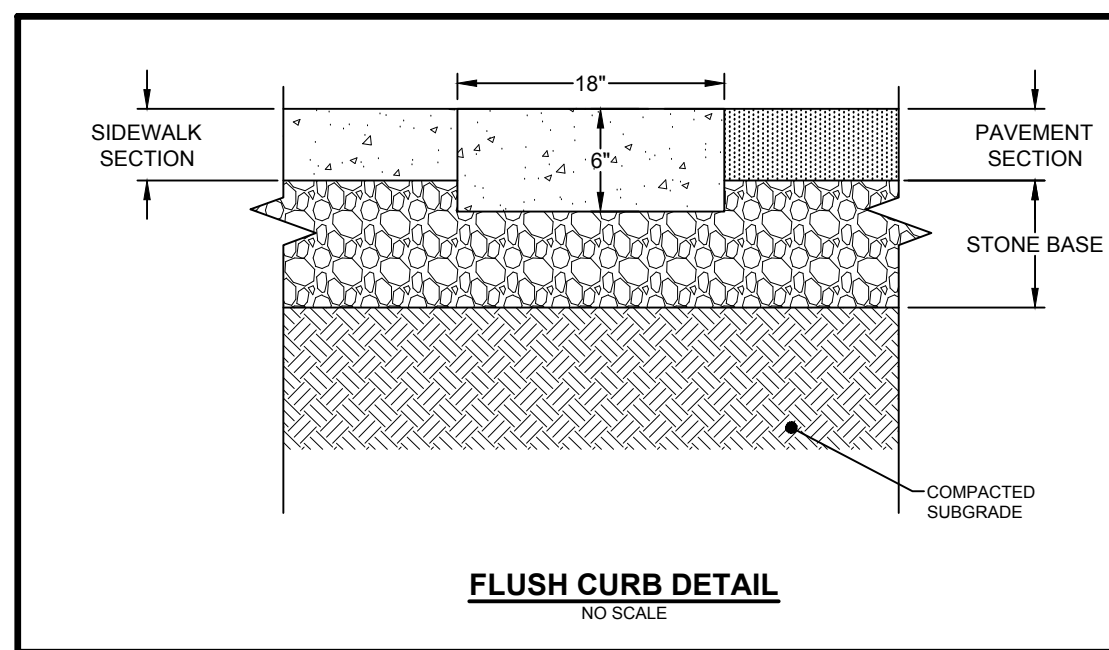
- CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (811) AT LEAST 3-12 BUSINESS DAYS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE CATCH BASINS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
- A LAND DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
- ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD88.
- A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
- ALL HANDICAP PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A 1:50 (2.0%) SLOPE IN ALL DIRECTIONS. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE

SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.

- CONTRACTOR TO IDENTIFY ALL NECESSARY SPILL CURB SECTION LOCATIONS AND INSTALL TO ENSURE POSITIVE DRAINAGE TO STORM STRUCTURES.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 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 THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
- 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.
- ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
- ALL NEW SLOPES SHOULD HAVE A SLOPE GREATER THAN 3:1.

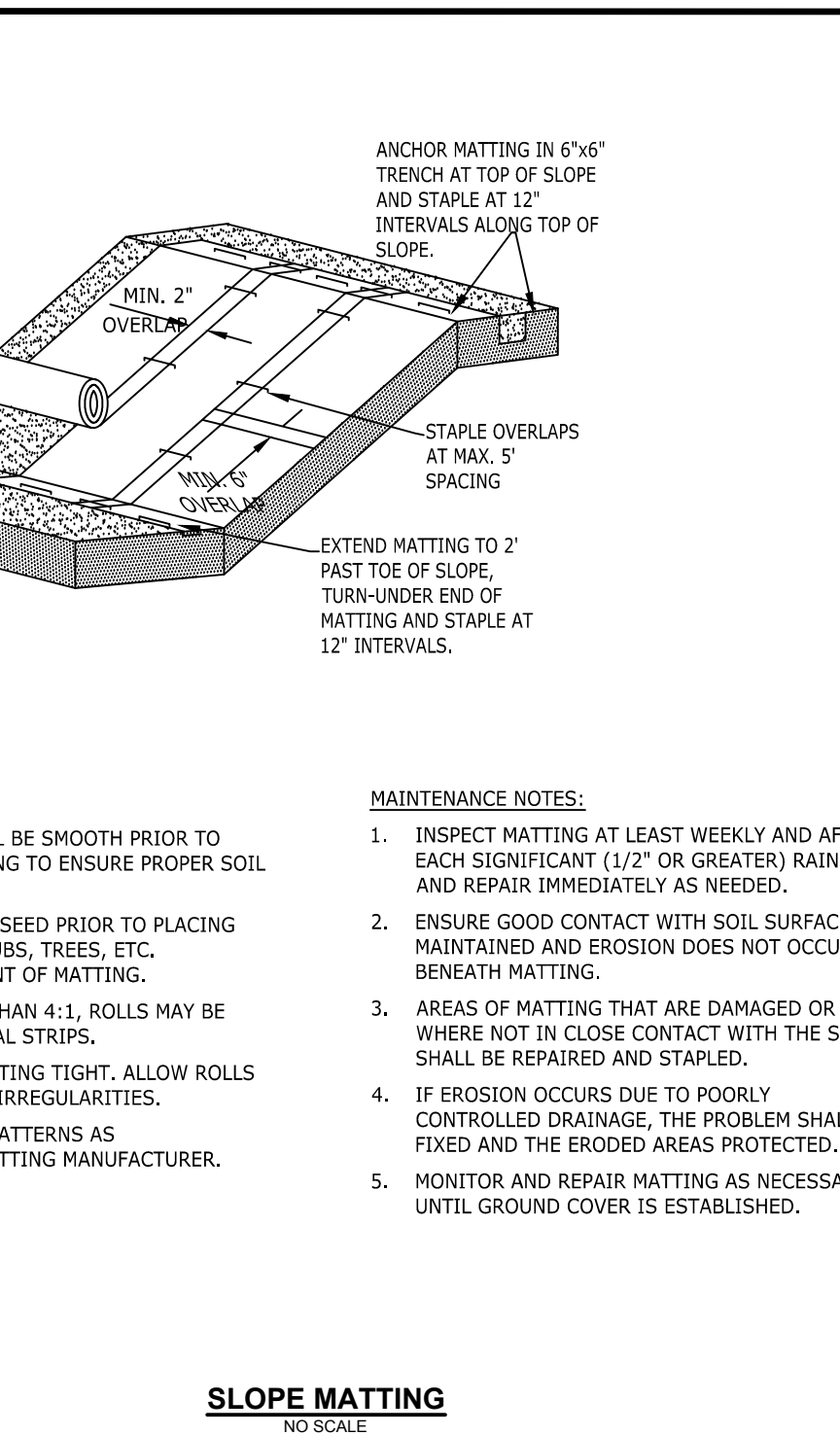
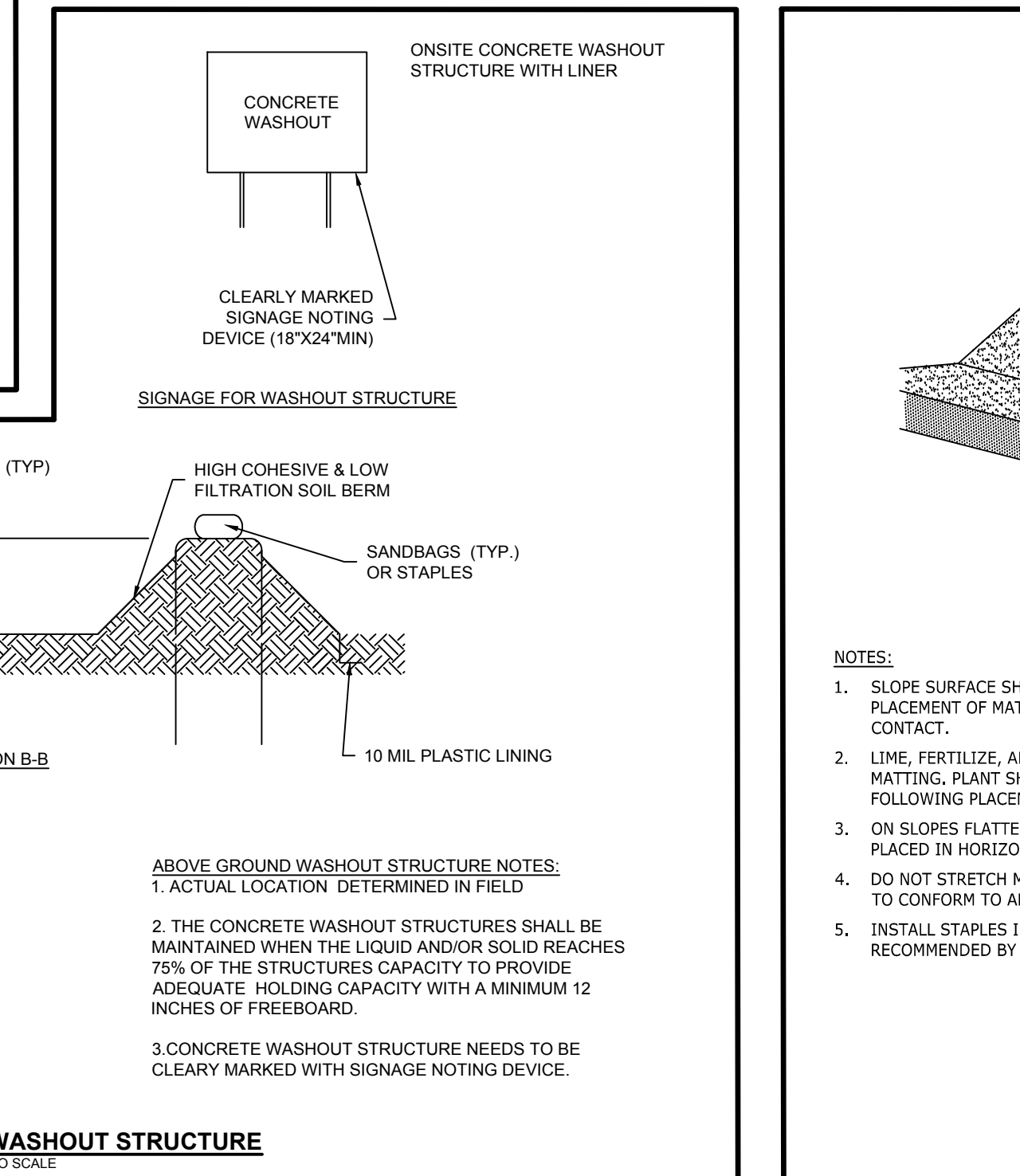
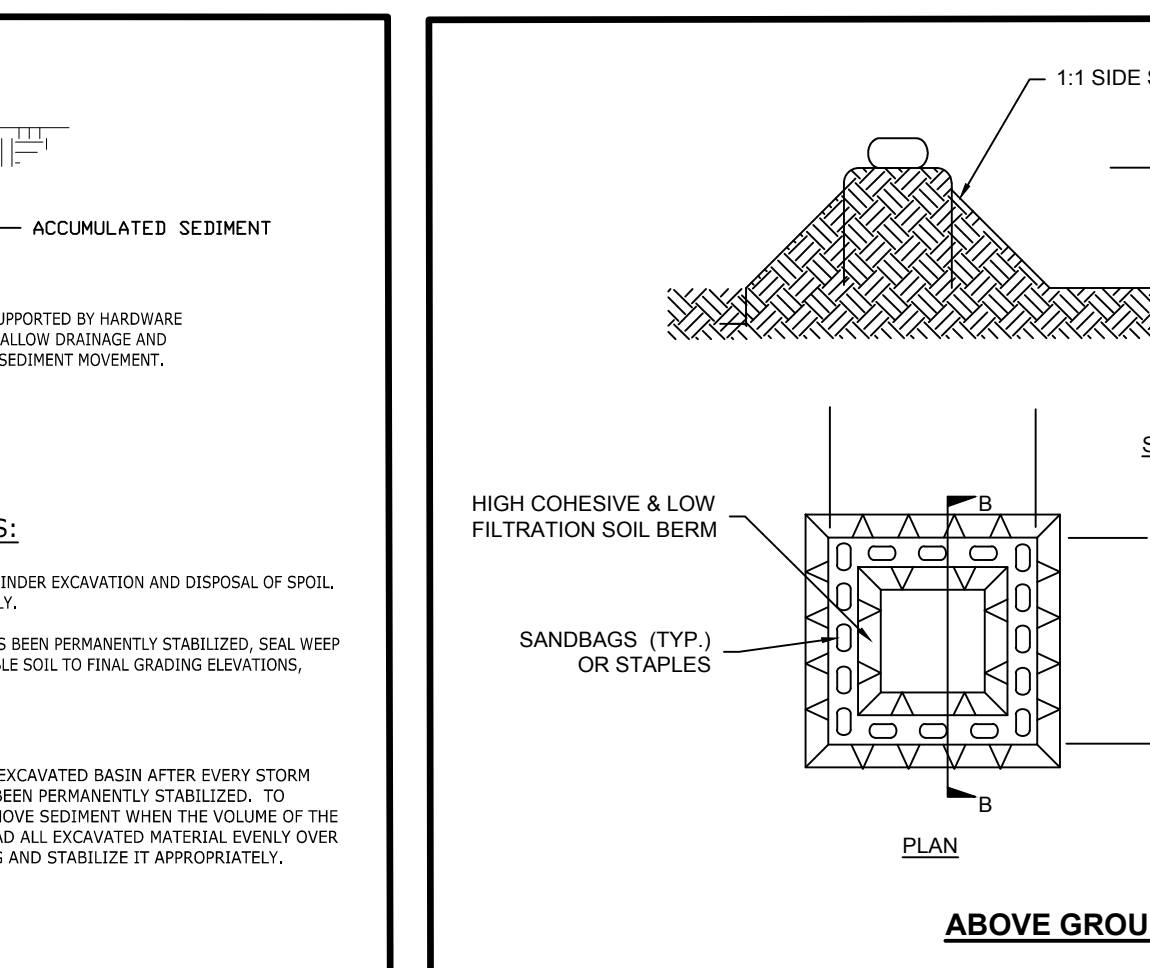
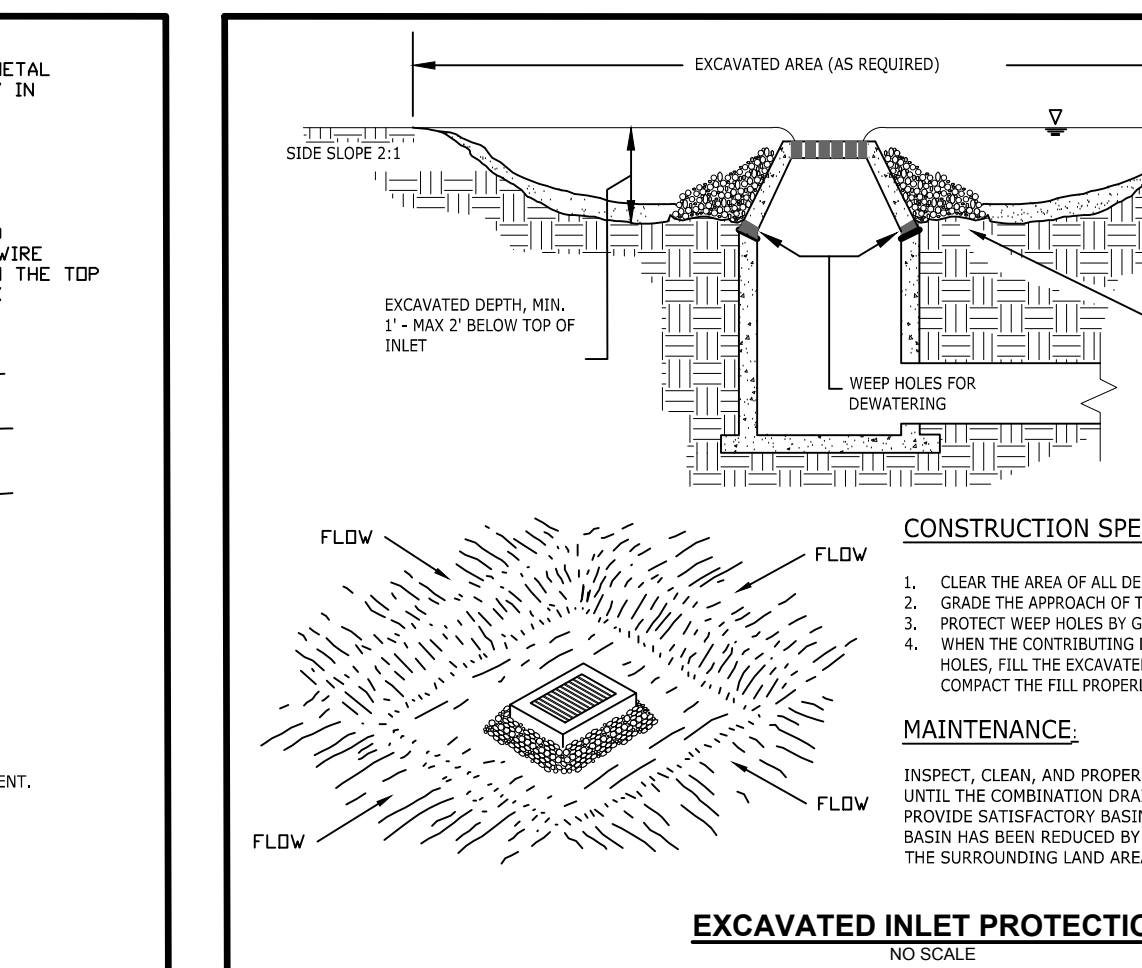
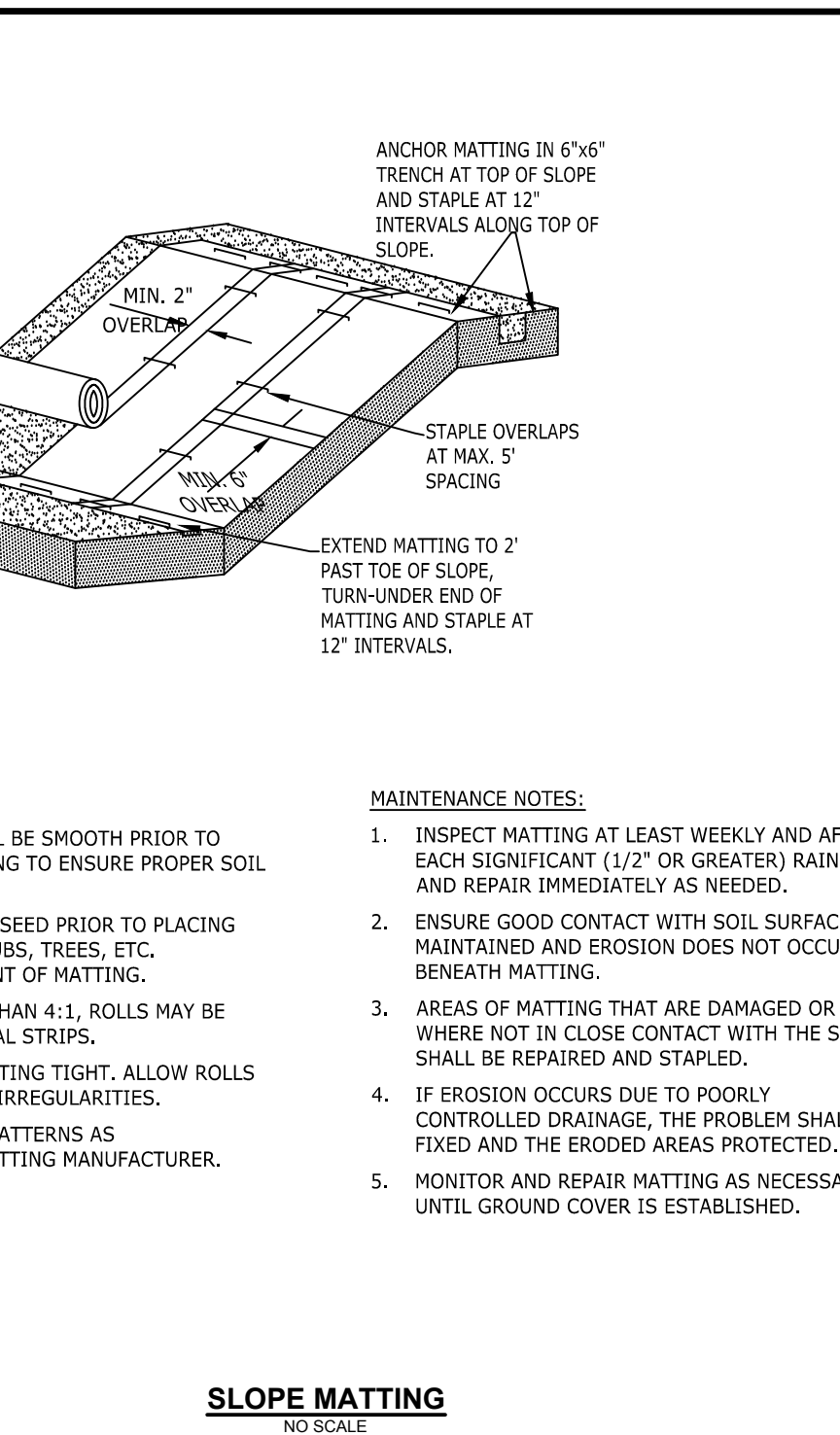
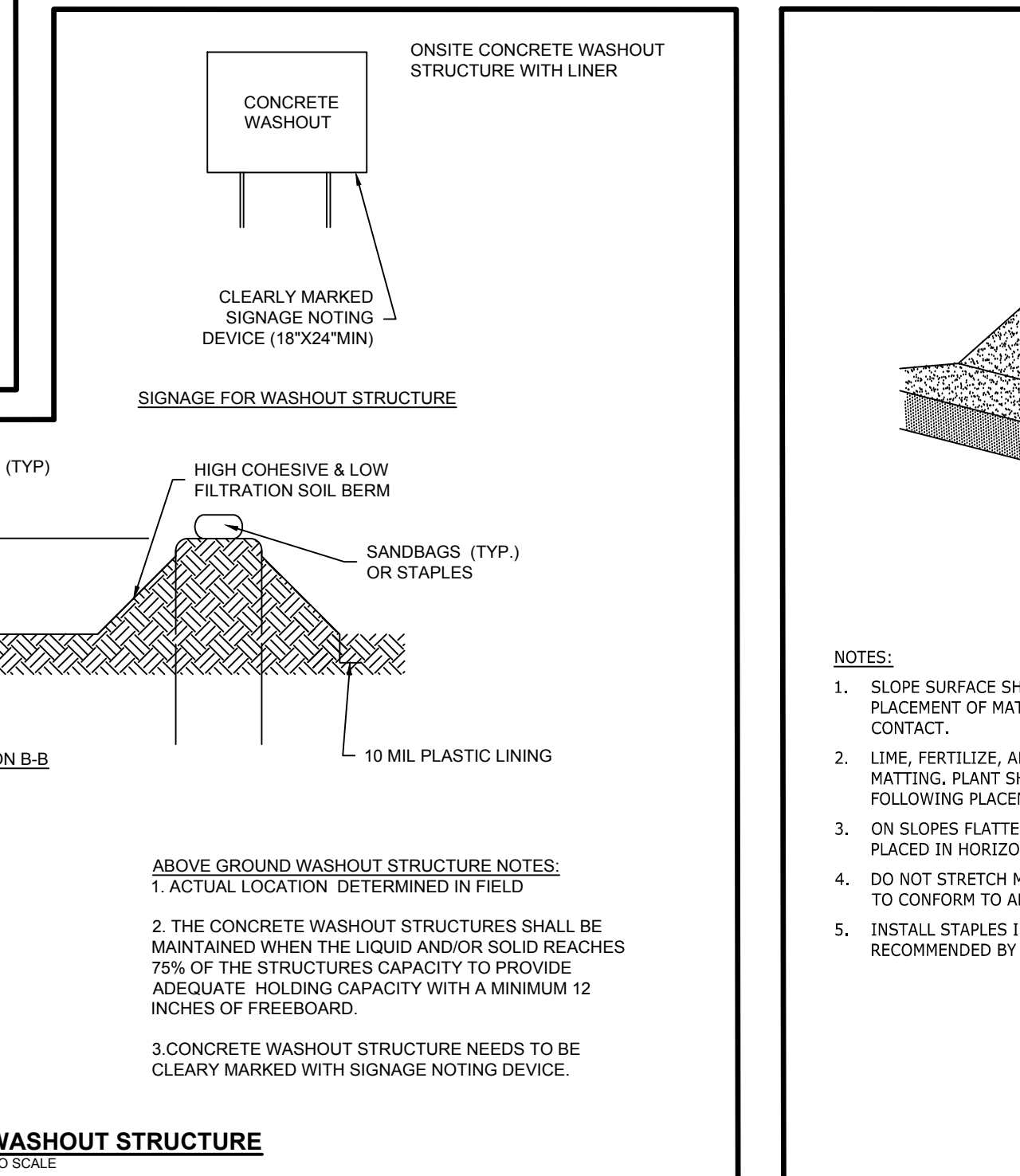
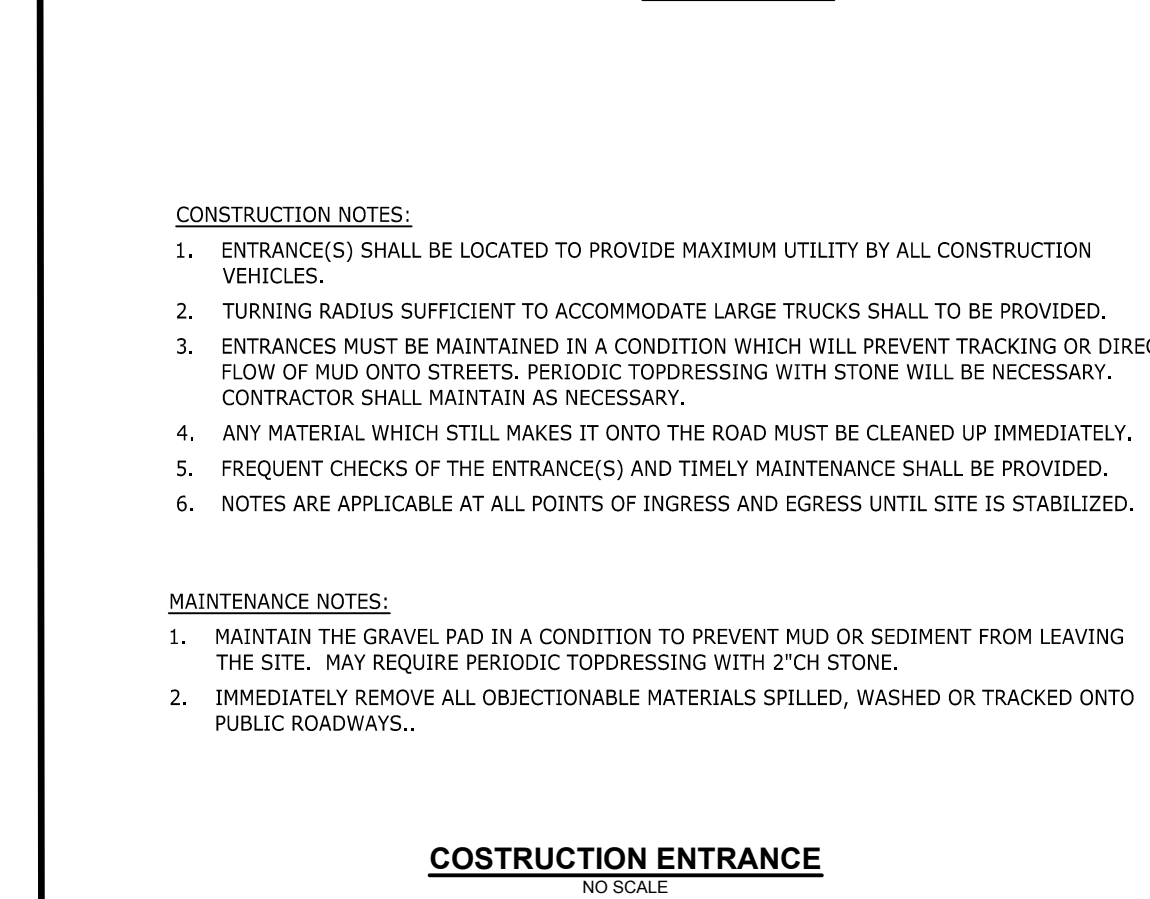
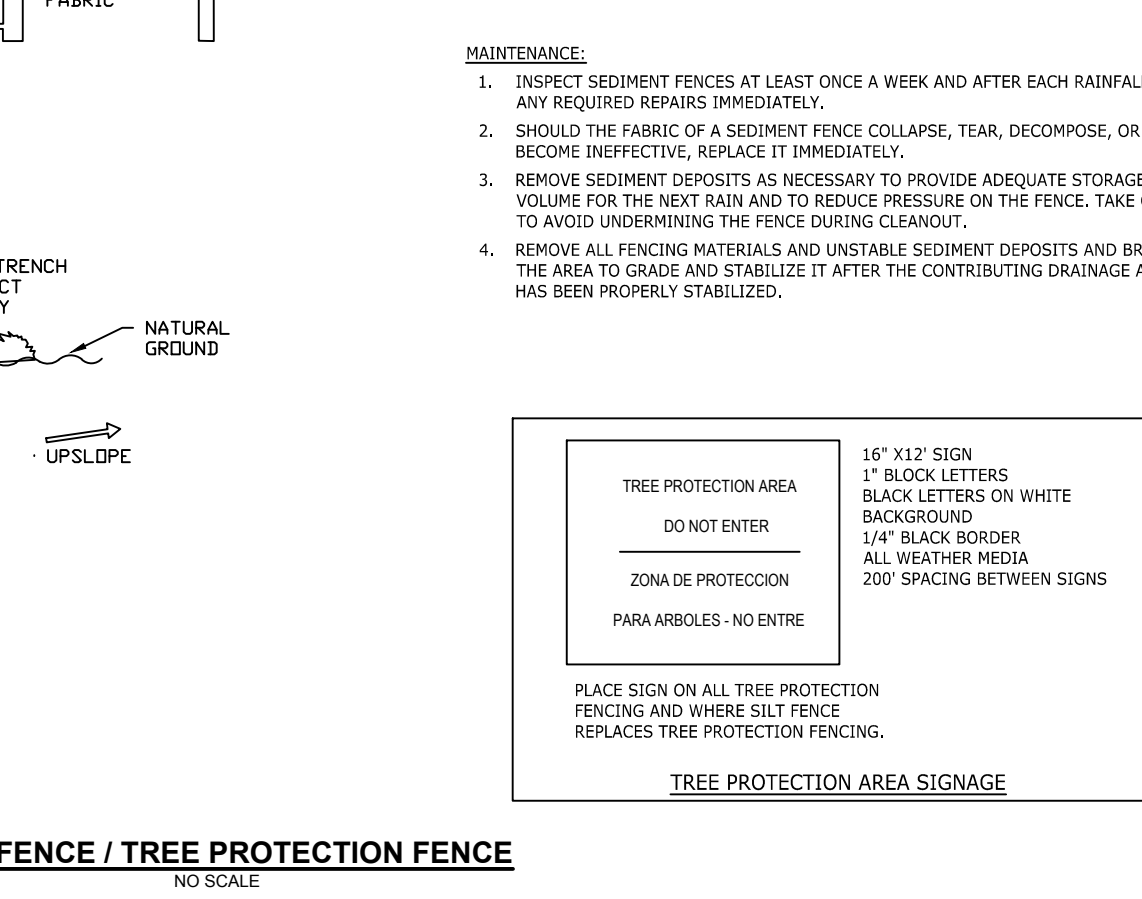
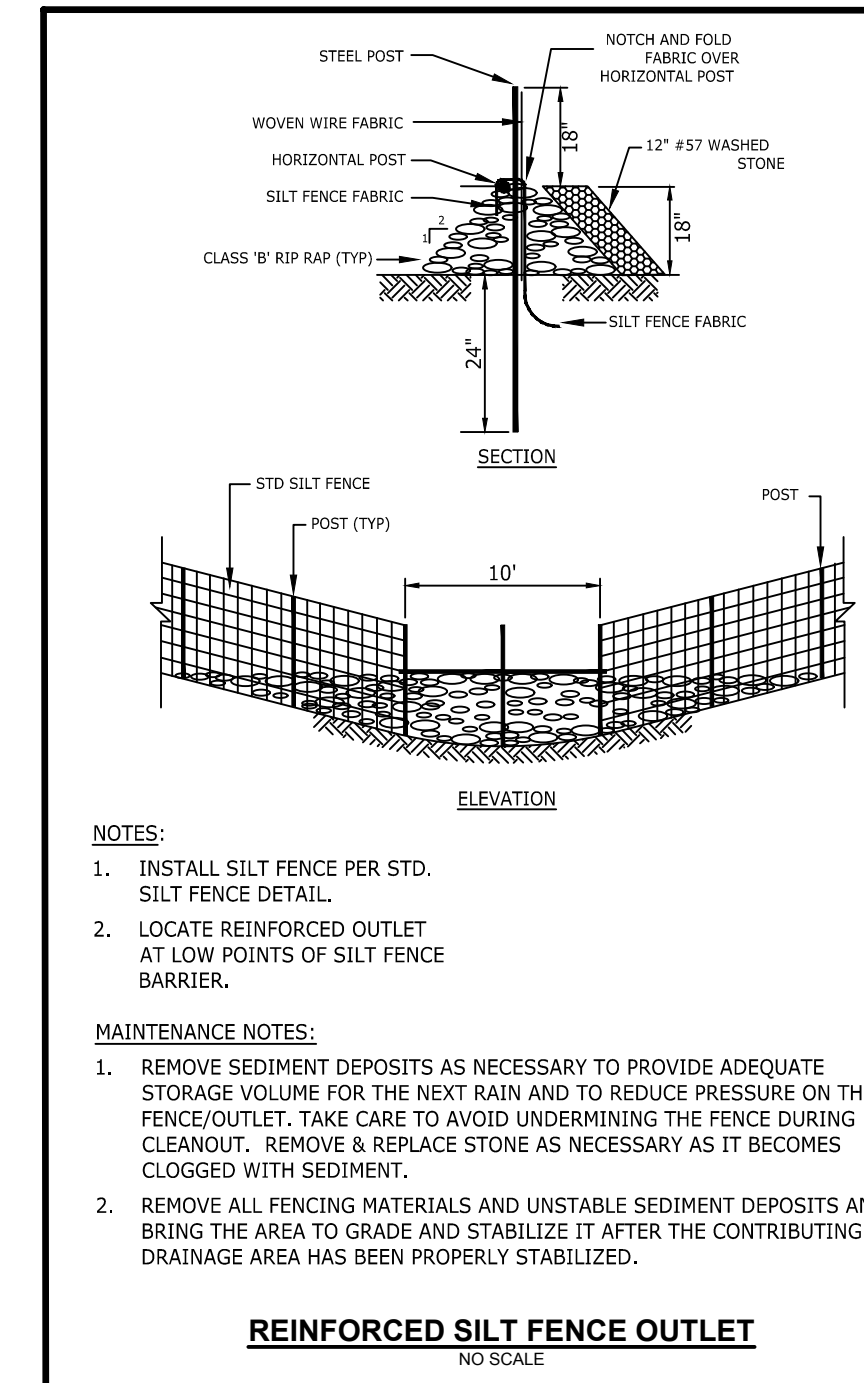
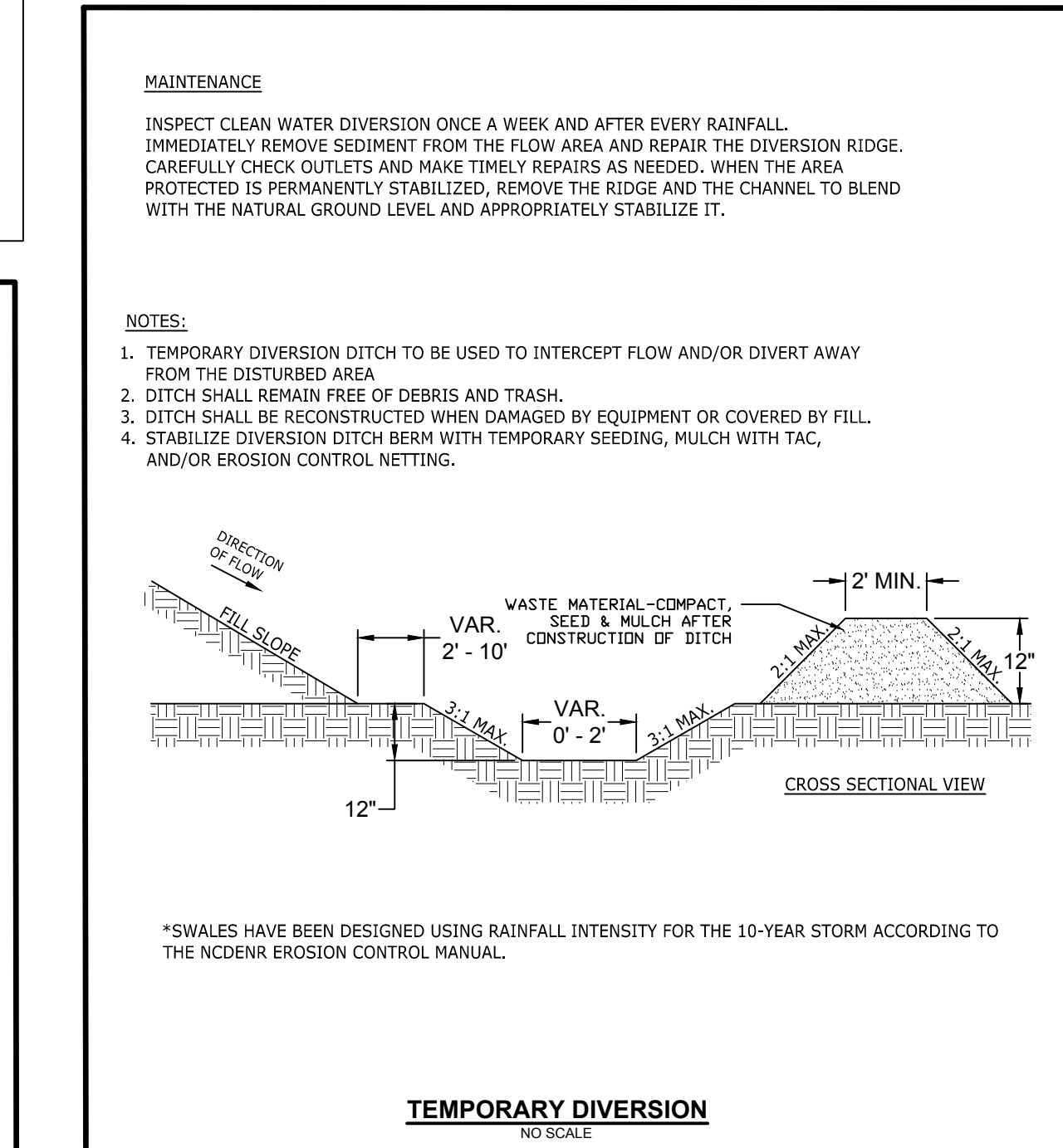
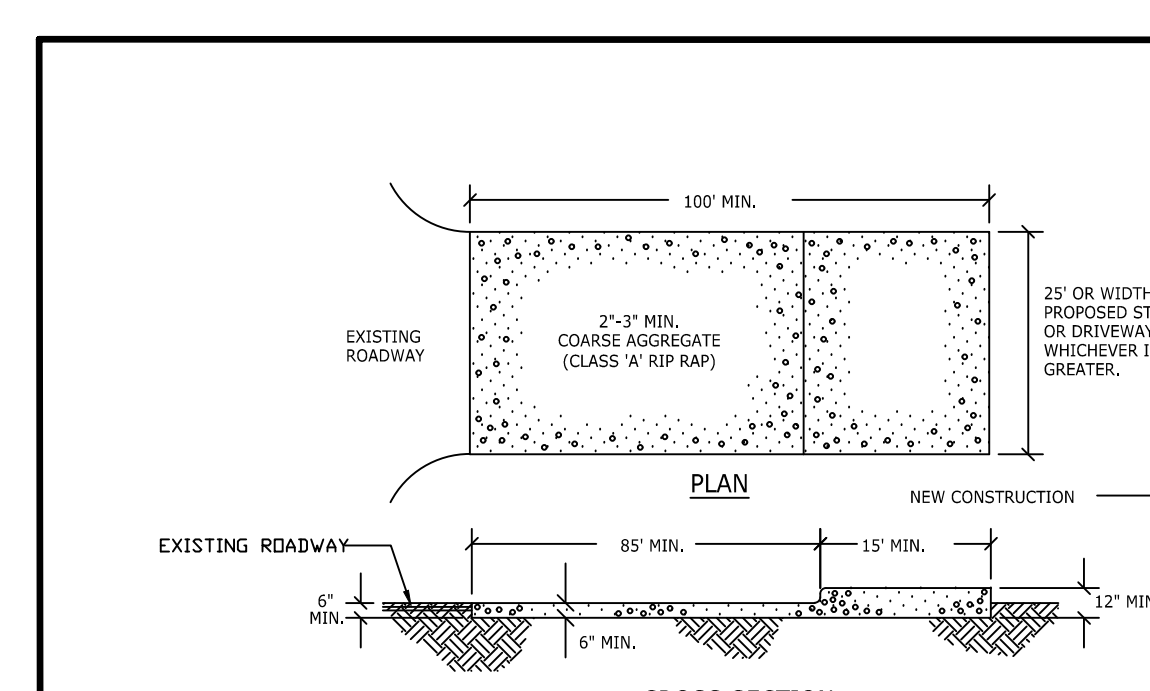
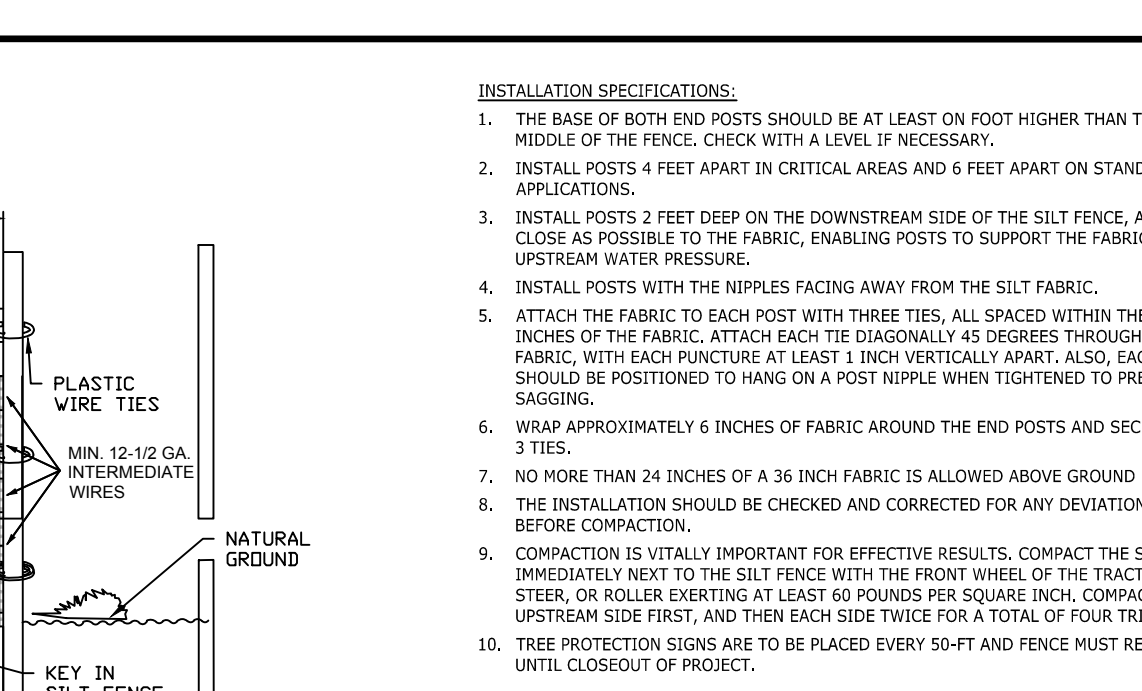
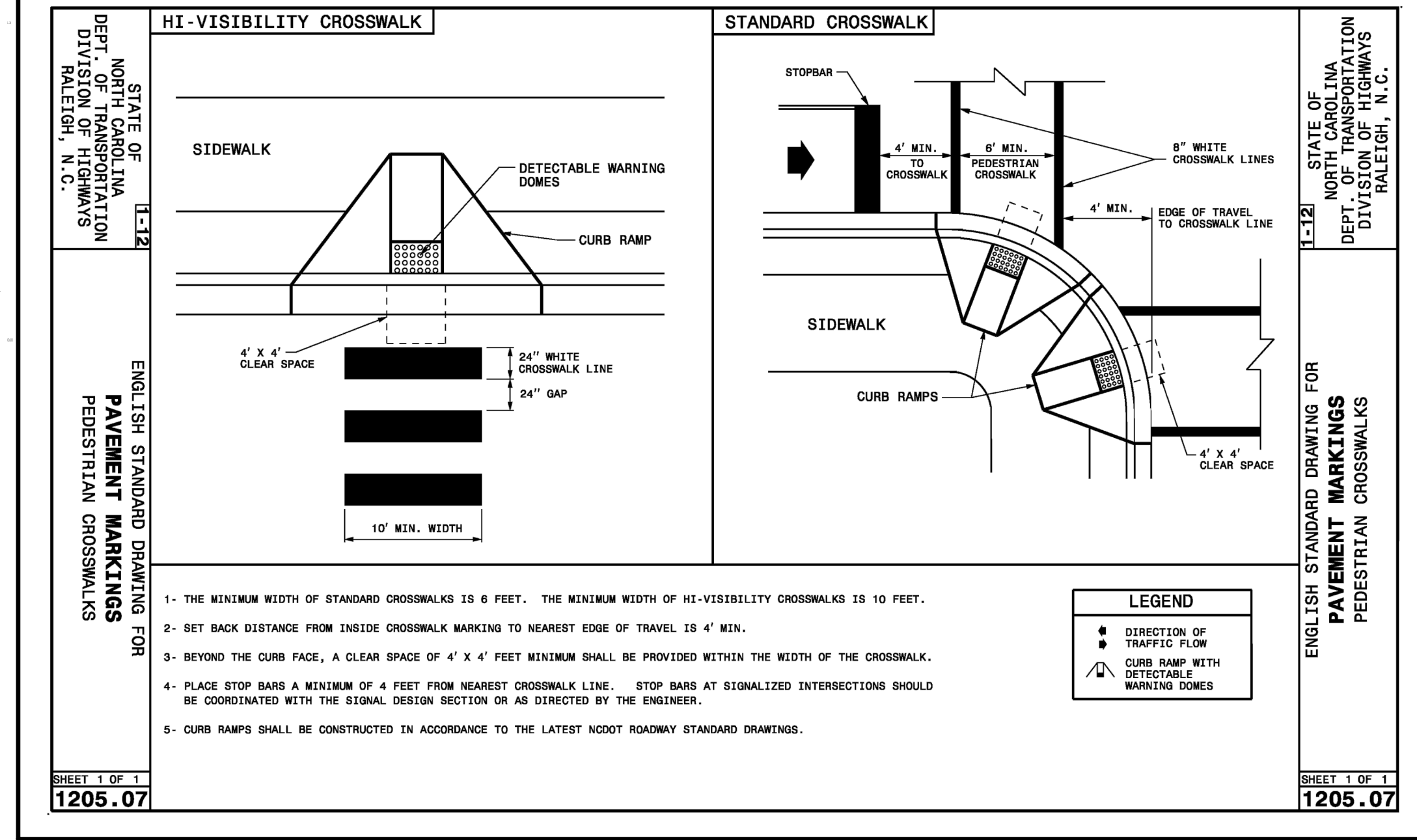
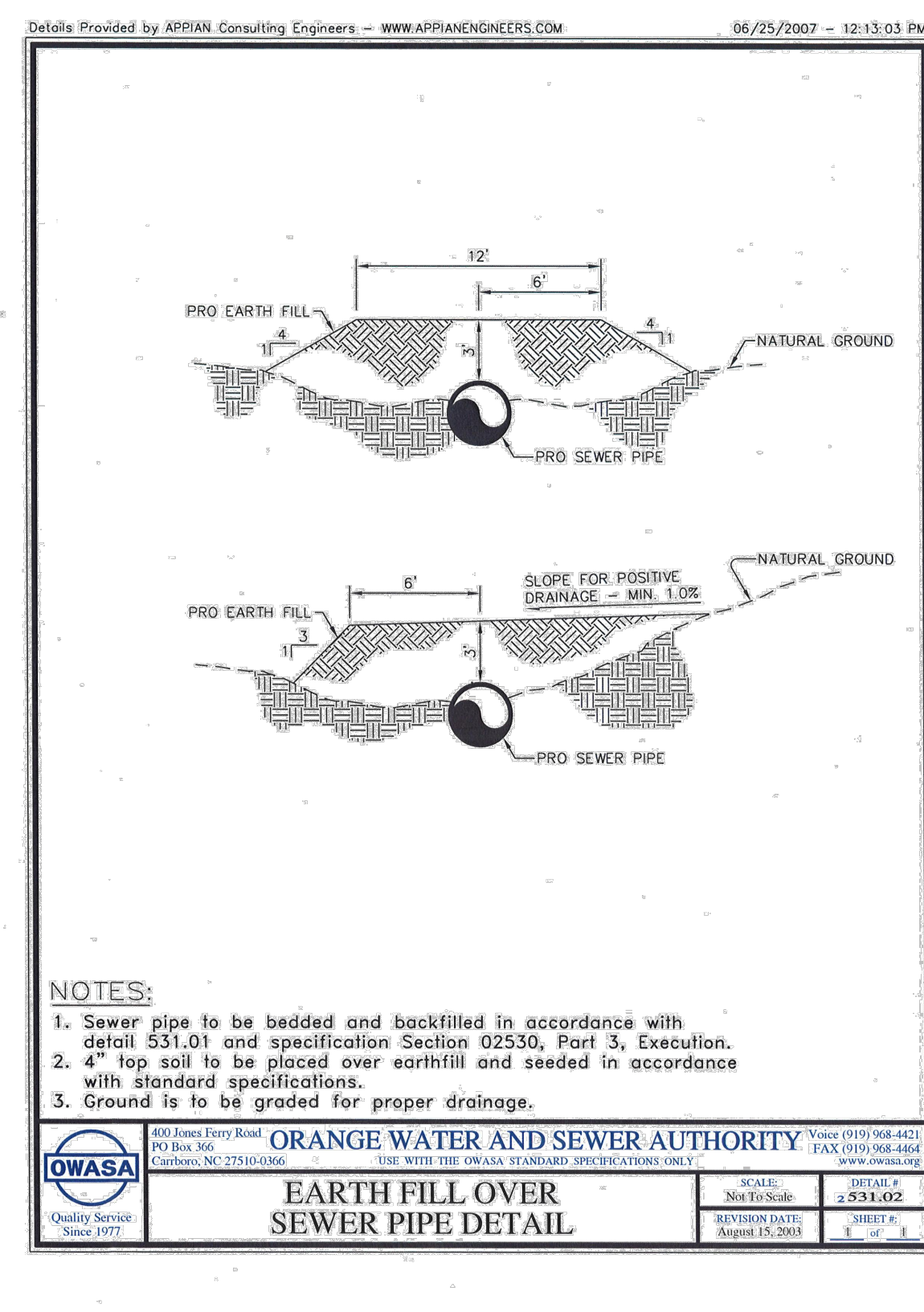
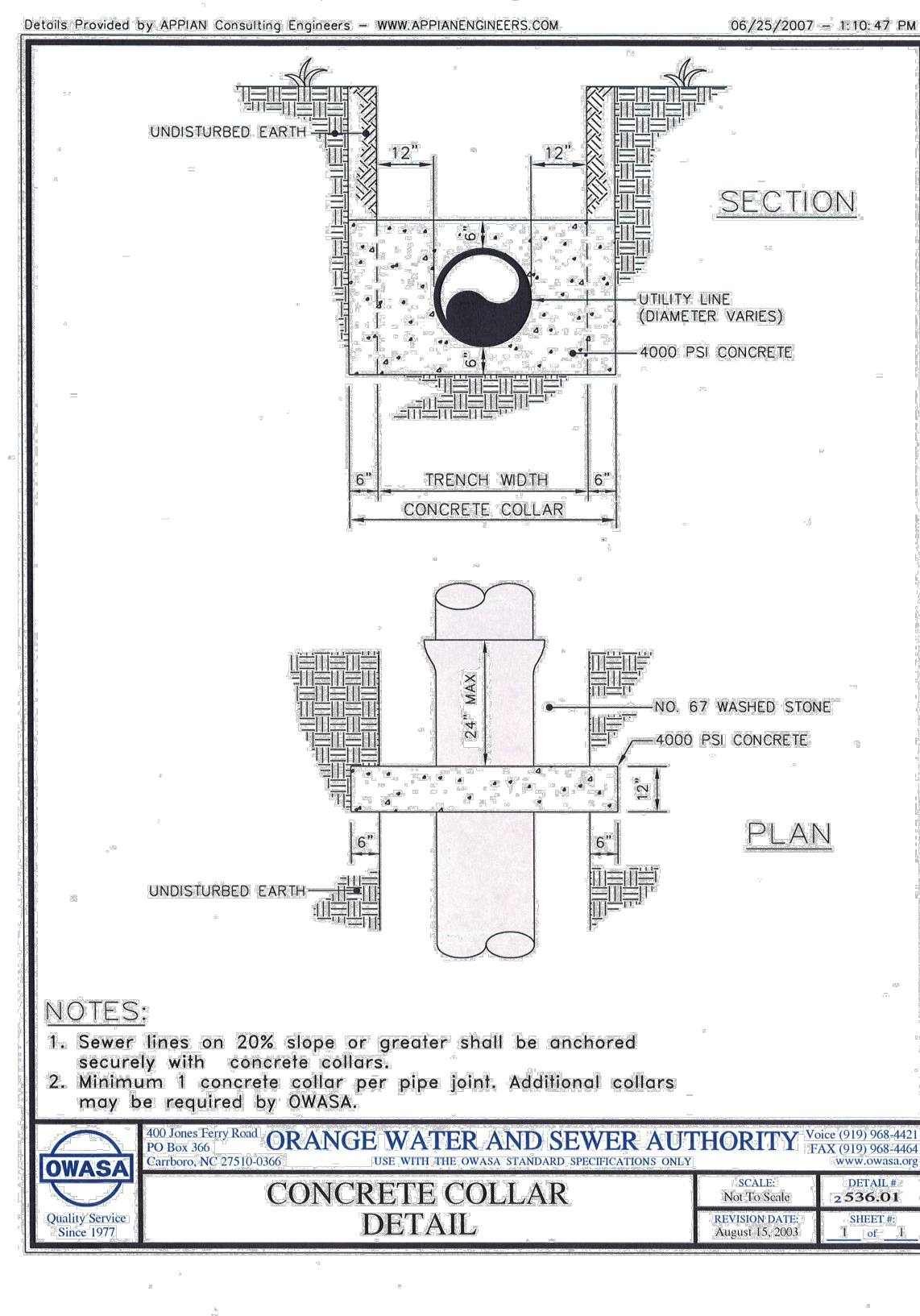
DRAINAGE AREA SUMMARY

CATCHMENT STRUCTURE	C-VALUE	DRAINAGE AREA (AC)
CB A1	0.63	0.26
CB A2	0.59	0.15
CB B1	0.80	0.32
CB B2	0.52	0.50
CB C1	0.73	0.07
DI A1	0.33	0.16
DI A2	0.34	0.06
DI A3	0.86	0.03
EX DI C2	0.61	0.62
MH B1	1.0	0.12
MH C1	1.0	0.05



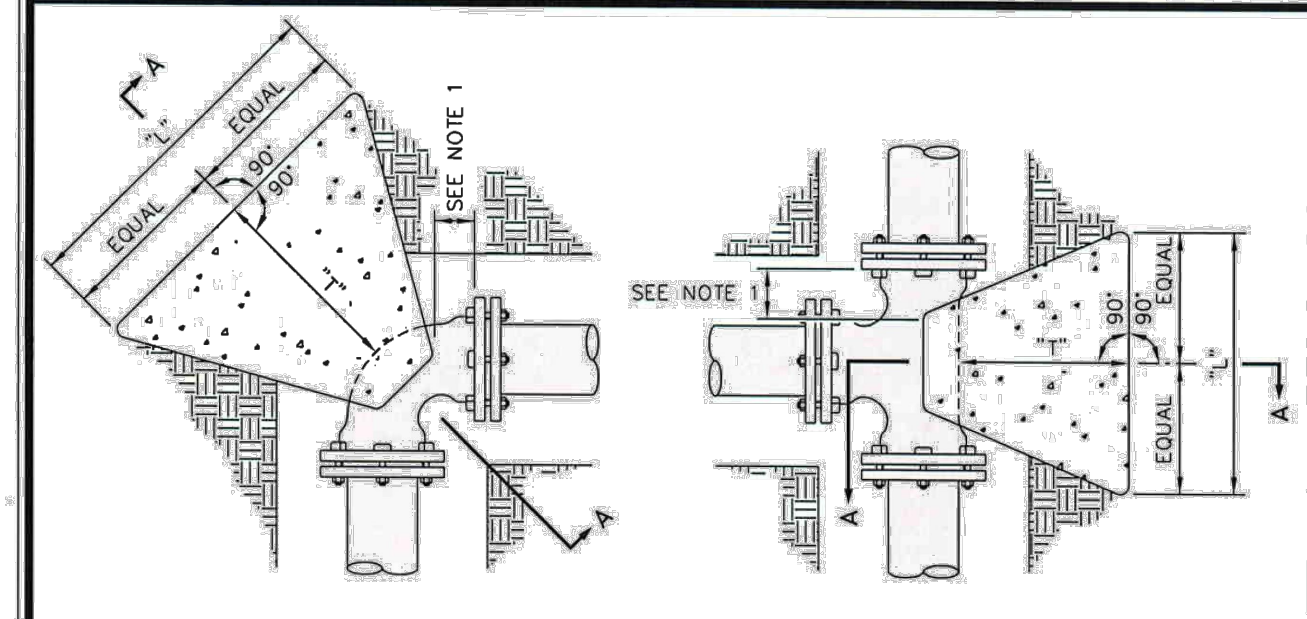
PROJECT NO: 48833
DATE: DECEMBER 1, 2022

REVISIONS	DATE	DESCRIPTION

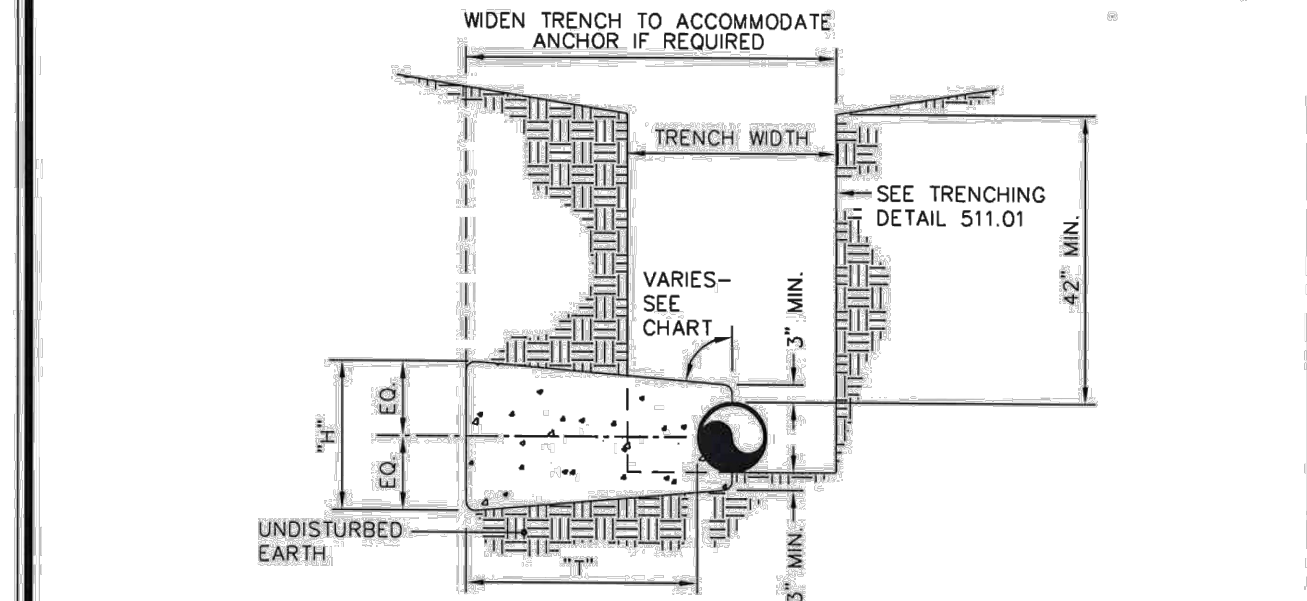


PROJECT NO: 48833
 DATE: DECEMBER 1, 2022

DATE	REVISIONS	DESCRIPTION



FOR ALL BEND FITTINGS FOR TEE FITTING



- NOTES:
- Concrete blocking is to be formed to ensure accessibility to fittings and poured against undisturbed earth.
 - Fittings are to be completely wrapped with plastic, prior to pouring concrete.
 - Concrete to be minimum 3,000 psi. @ 28 days.

ORANGE WATER AND SEWER AUTHORITY Voice (919) 968-4421
 PO Box 366, Charlotte, NC 27510-0366 FAX (919) 968-4464
 WWW.OWASA.ORG

BLOCKING DETAIL for HORIZONTAL BENDS AND TEE

SCALE: Not To Scale DETAIL # 512.02
 REVISION DATE: August 15, 2003 SHEET # 1 of 1

TEST PRESSURE = 150 P.S.I.

PIPE SIZE	TYPE FITTING	DIMENSIONS (Ft.)			VOLUME CONCRETE CU. YD.
		L	H	T	
<4 INCHES	11 1/4"	1.00	1.00	1.50	0.06
	22 1/2"	1.00	1.00	1.50	0.06
	45"	1.00	1.00	1.50	0.06
	90"	1.00	1.00	2.50	0.09
	TEE / PLUG	1.00	1.00	2.00	0.07
4 INCHES	11 1/4"	1.00	1.00	2.50	0.09
	22 1/2"	1.00	1.00	2.50	0.09
	45"	1.00	1.00	2.50	0.09
	90"	1.50	1.50	2.50	0.15
	TEE / PLUG	1.50	1.50	2.00	0.12
6 INCHES	11 1/4"	1.50	1.50	2.50	0.15
	22 1/2"	1.50	1.50	2.50	0.15
	45"	1.50	1.50	2.50	0.15
	90"	2.00	2.00	3.00	0.28
	TEE / PLUG	2.00	2.00	2.50	0.23
8 INCHES	11 1/4"	2.00	2.00	2.50	0.23
	22 1/2"	2.00	2.00	2.50	0.23
	45"	2.00	2.00	2.75	0.25
	90"	3.00	3.00	3.00	0.39
	TEE / PLUG	3.00	3.00	2.50	0.32
12 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	2.00	2.00	3.00	0.28
	45"	3.00	2.50	3.00	0.47
	90"	4.50	3.00	3.50	0.94
	TEE / PLUG	4.50	3.00	3.00	0.81
16 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	3.00	2.00	3.00	0.39
	45"	4.00	3.00	3.50	0.84
	90"	6.50	3.50	3.50	1.54
	TEE / PLUG	6.50	3.00	3.00	1.32

- CHART NOTES:
- If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the specific location/circumstance by a NC licensed Professional Engineer.
 - Blocking sizes shown in these tables assume the following:
 - Blocking is constructed in residual soils as shown in detail
 - Soil bearing pressure = 2000 psf
 - Velocity of flow = 15 fps
 - This detail not applicable to reducing bends.
 - Neither the weight of the concrete blocking nor friction between concrete blocking and soil was added into blocking sizes computation. Therefore, blocking size is conservative.

ORANGE WATER AND SEWER AUTHORITY Voice (919) 968-4421
 PO Box 366, Charlotte, NC 27510-0366 FAX (919) 968-4464
 WWW.OWASA.ORG

BLOCKING DETAIL for HORIZONTAL BENDS AND TEE

SCALE: Not To Scale DETAIL # 512.02
 REVISION DATE: August 15, 2003 SHEET # 2 of 4

TEST PRESSURE = 200 P.S.I.

PIPE SIZE	TYPE FITTING	DIMENSIONS (Ft.)			VOLUME CONCRETE CU. YD.
		L	H	T	
<4 INCHES	11 1/4"	1.00	1.00	1.00	0.04
	22 1/2"	1.00	1.00	1.50	0.06
	45"	1.00	1.00	1.50	0.06
	90"	1.50	1.50	2.50	0.15
	TEE / PLUG	1.50	1.50	2.00	0.12
4 INCHES	11 1/4"	1.00	1.00	2.50	0.09
	22 1/2"	1.00	1.00	2.50	0.09
	45"	1.50	1.50	2.50	0.15
	90"	1.50	1.50	2.50	0.15
	TEE / PLUG	1.50	1.50	2.00	0.12
6 INCHES	11 1/4"	1.50	1.50	2.50	0.15
	22 1/2"	1.50	1.50	2.50	0.15
	45"	1.50	1.50	2.50	0.15
	90"	2.50	2.00	3.00	0.33
	TEE / PLUG	2.50	2.00	2.50	0.28
8 INCHES	11 1/4"	2.00	2.00	2.50	0.23
	22 1/2"	2.00	2.00	2.50	0.23
	45"	2.00	2.00	2.50	0.23
	90"	4.00	2.00	3.00	0.50
	TEE / PLUG	4.00	2.00	2.50	0.42
12 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	2.00	2.00	3.00	0.28
	45"	4.00	2.50	3.00	0.61
	90"	5.50	3.00	3.50	1.13
	TEE / PLUG	5.50	3.00	3.00	0.97
16 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	4.00	2.00	3.00	0.50
	45"	5.50	3.00	3.50	1.13
	90"	7.50	4.00	3.50	2.01
	TEE / PLUG	7.50	4.00	3.00	1.72

- CHART NOTES:
- If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the specific location/circumstance by a NC licensed Professional Engineer.
 - Blocking sizes shown in these tables assume the following:
 - Blocking is constructed in residual soils as shown in detail
 - Soil bearing pressure = 2000 psf
 - Velocity of flow = 15 fps
 - This detail not applicable to reducing bends.
 - Neither the weight of the concrete blocking nor friction between concrete blocking and soil was added into blocking sizes computation. Therefore, blocking size is conservative.

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BLOCKING DETAIL for HORIZONTAL BENDS AND TEE

SCALE: Not To Scale DETAIL # 512.02
 REVISION DATE: August 15, 2003 SHEET # 3 of 4

TEST PRESSURE = 250 P.S.I.

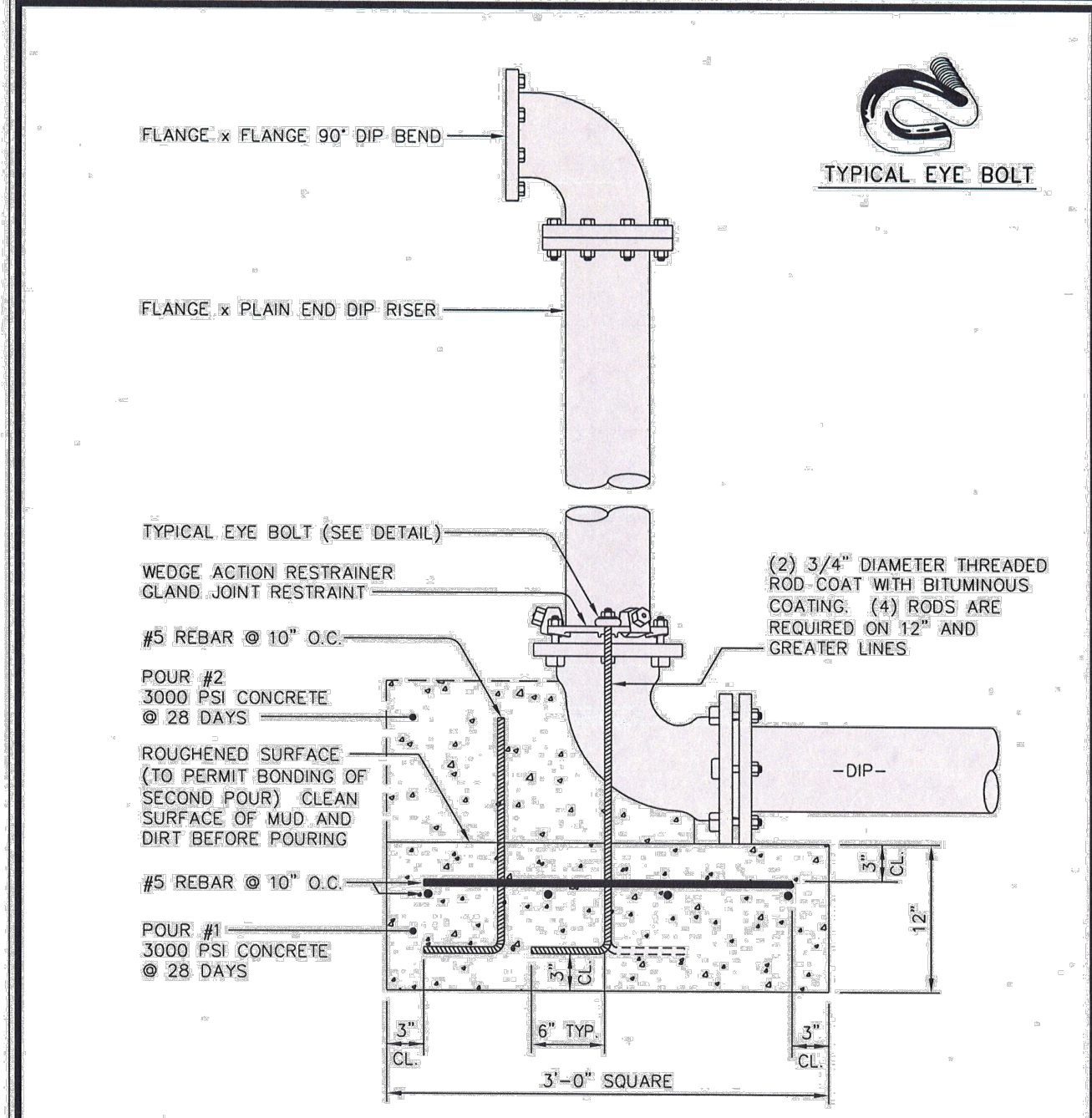
PIPE SIZE	TYPE FITTING	DIMENSIONS (Ft.)			VOLUME CONCRETE CU. YD.
		L	H	T	
<4 INCHES	11 1/4"	1.00	1.00	1.00	0.04
	22 1/2"	1.00	1.00	1.50	0.06
	45"	1.00	1.00	1.50	0.06
	90"	1.50	1.50	2.50	0.15
	TEE / PLUG	1.50	1.50	2.00	0.12
4 INCHES	11 1/4"	1.00	1.00	2.50	0.09
	22 1/2"	1.00	1.00	2.50	0.09
	45"	1.50	1.50	2.50	0.15
	90"	1.50	1.50	2.50	0.15
	TEE / PLUG	1.50	1.50	2.00	0.12
6 INCHES	11 1/4"	1.50	1.50	2.50	0.15
	22 1/2"	1.50	1.50	2.50	0.15
	45"	1.50	1.50	2.50	0.15
	90"	2.00	2.00	3.00	0.39
	TEE / PLUG	2.00	2.00	2.50	0.32
8 INCHES	11 1/4"	2.00	2.00	2.50	0.23
	22 1/2"	2.00	2.00	2.50	0.23
	45"	2.50	2.00	2.50	0.28
	90"	4.00	2.50	3.00	0.61
	TEE / PLUG	4.00	2.50	2.50	0.51
12 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	2.00	2.00	3.00	0.28
	45"	4.50	2.75	3.00	0.74
	90"	6.00	3.50	3.00	1.43
	TEE / PLUG	6.00	3.50	3.00	1.22
16 INCHES	11 1/4"	2.00	2.00	3.00	0.28
	22 1/2"	4.00	2.50	3.00	0.61
	45"	5.50	3.50	3.50	1.43
	90"	8.00	4.50	4.00	2.74
	TEE / PLUG	8.00	4.50	3.50	2.40

- CHART NOTES:
- If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the specific location/circumstance by a NC licensed Professional Engineer.
 - Blocking sizes shown in these tables assume the following:
 - Blocking is constructed in residual soils as shown in detail
 - Soil bearing pressure = 2000 psf
 - Velocity of flow = 15 fps
 - This detail not applicable to reducing bends.
 - Neither the weight of the concrete blocking nor friction between concrete blocking and soil was added into blocking sizes computation. Therefore, blocking size is conservative.

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BLOCKING DETAIL for HORIZONTAL BENDS AND TEE

SCALE: Not To Scale DETAIL # 512.02
 REVISION DATE: August 15, 2003 SHEET # 4 of 4

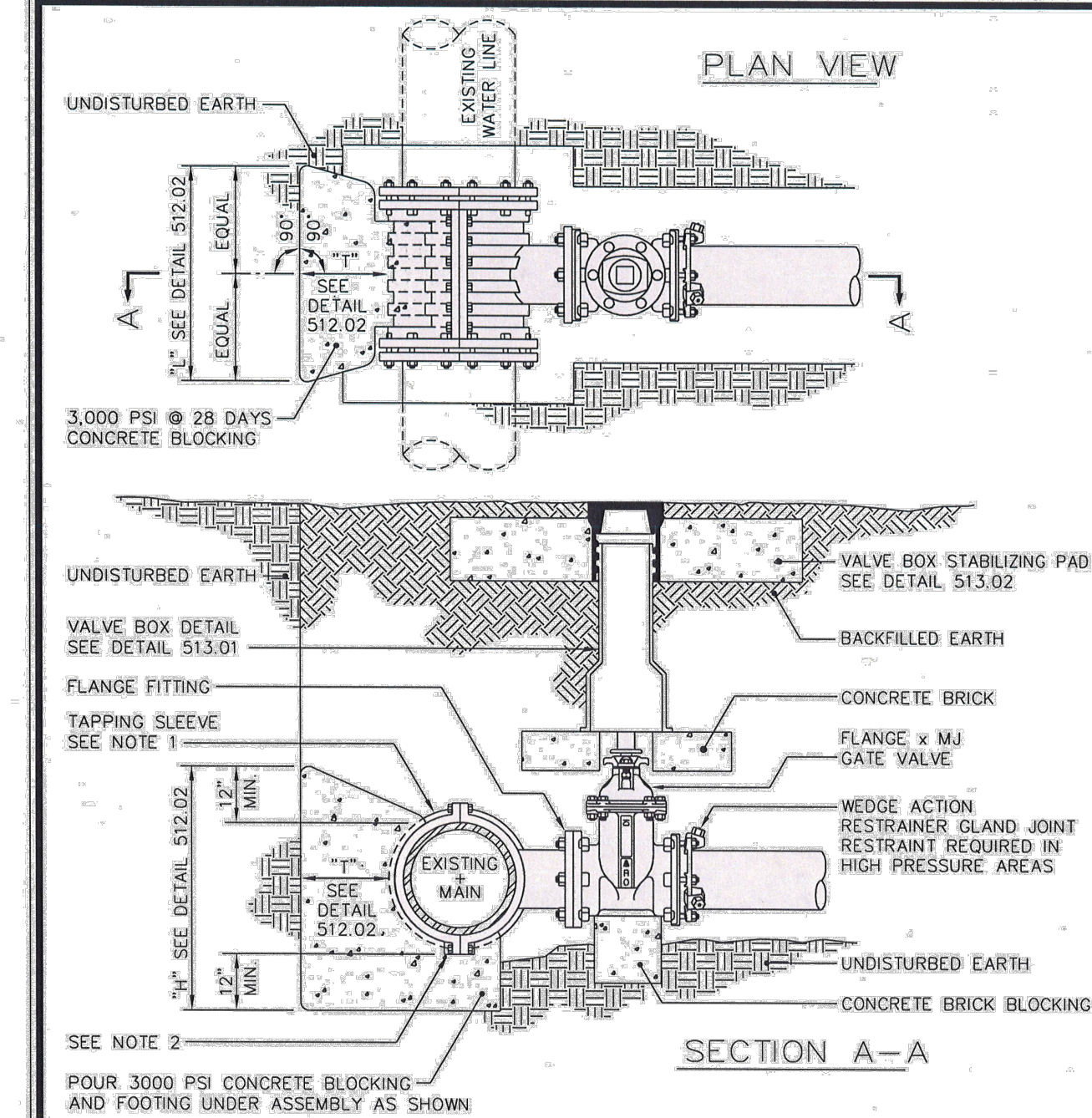


- NOTES:
- Excavate under elbow for footing, place steel & rods in footing & pour (pour #1)
 - Once concrete has set in footing pour horizontal blocking (pour #2)
 - Footing adequate for water mains up to 8". North Carolina licensed Professional Engineer to design footings for lines greater than 8" diameter.

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THRUST FOOTING DETAIL

SCALE: Not To Scale DETAIL # 512.07
 REVISION DATE: August 15, 2003 SHEET # 1 of 1

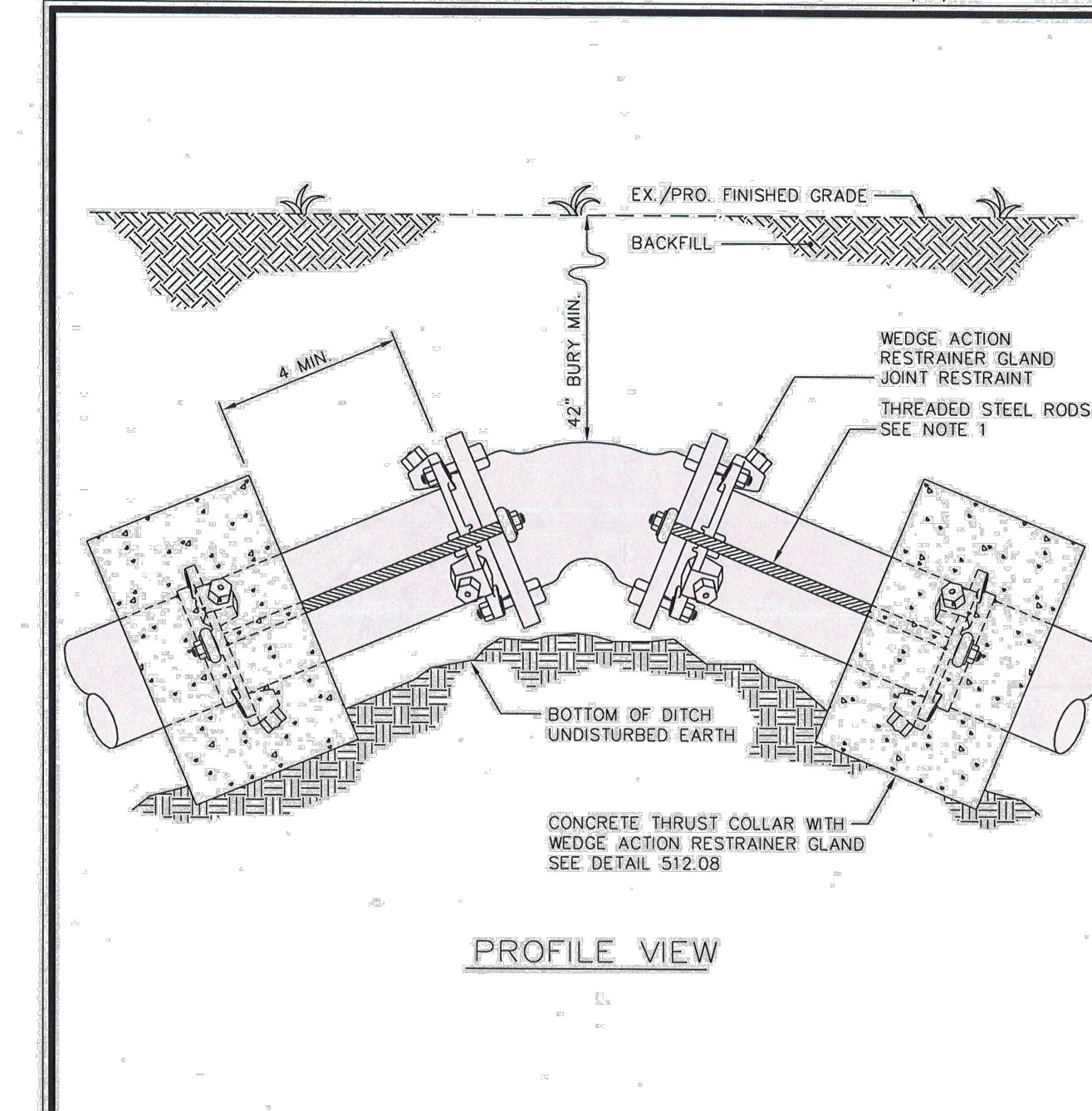


- NOTES:
- Concrete blocking is to be formed to ensure accessibility to fittings and poured against undisturbed earth.
 - Fittings are to be completely wrapped with plastic, prior to pouring concrete.
 - Concrete to be minimum 3,000 psi. @ 28 days.
 - Taps onto in-service mains by OWASA personnel only.

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4" to 12" STANDARD TAPPING SLEEVE and VALVE ASSEMBLY

SCALE: Not To Scale DETAIL # 512.04
 REVISION DATE: August 15, 2003 SHEET # 1 of 1

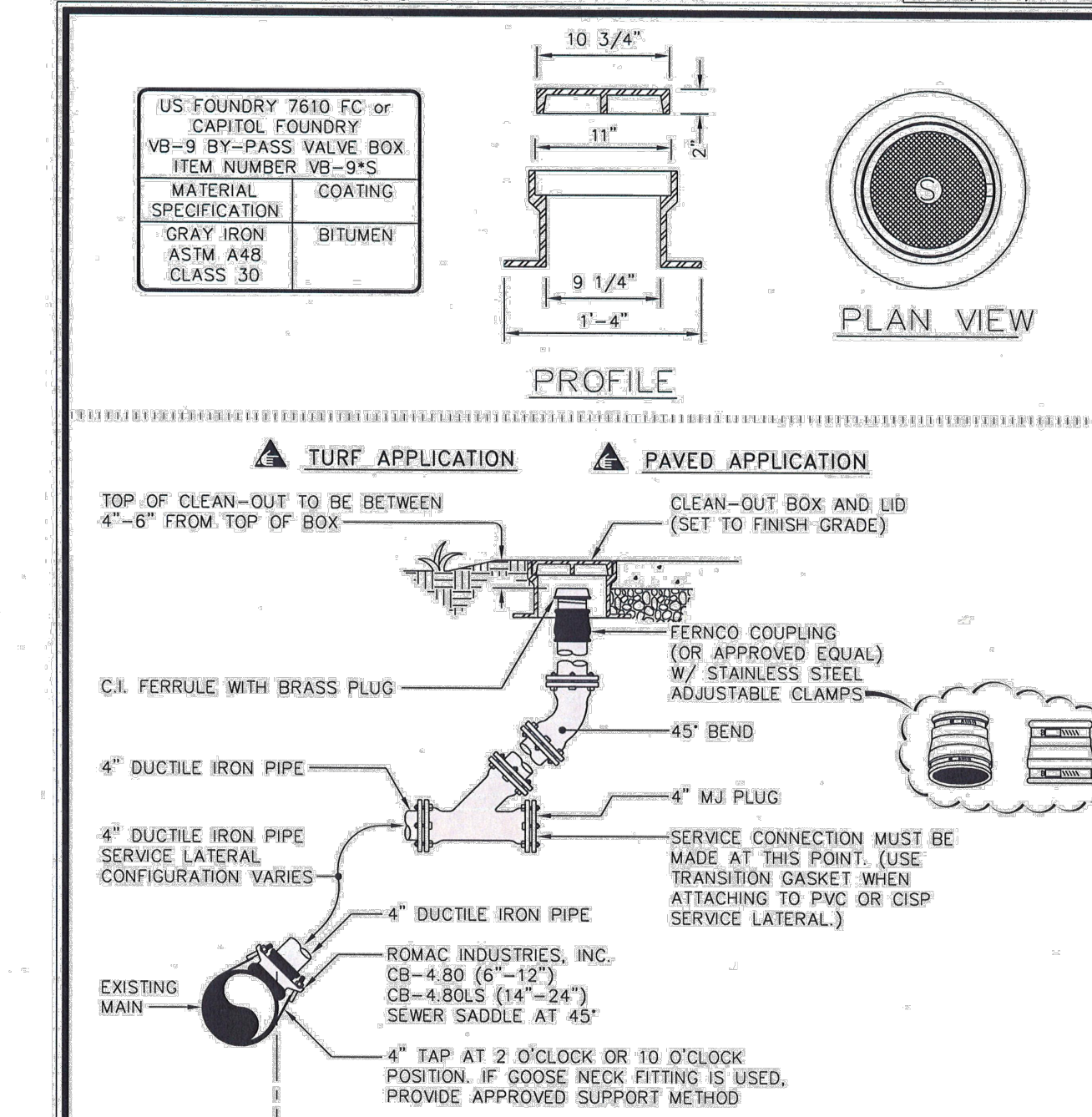


- NOTES:
- If 42" bury depth is not maintained or located in high pressure zone, a minimum of (2) 3/4" dia. rods to be used for pipe thru 24" dia. per joint - a minimum of (2) 1" dia. rods to be used for pipe 30" & 36" dia. per joint - a minimum of (2) 1 1/4" dia. rods to be used for pipe 42" & 48" dia. per joint. (See detail 512.09)

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STANDARD VERTICAL BEND DETAIL

SCALE: Not To Scale DETAIL # 512.01
 REVISION DATE: August 15, 2003 SHEET # 1 of 1



- NOTES:
- This detail depicts a typical layout. Variations may be approved.
 - Service saddles may be used only on existing sewer mains. Tees / Wyes shall be used for new construction.

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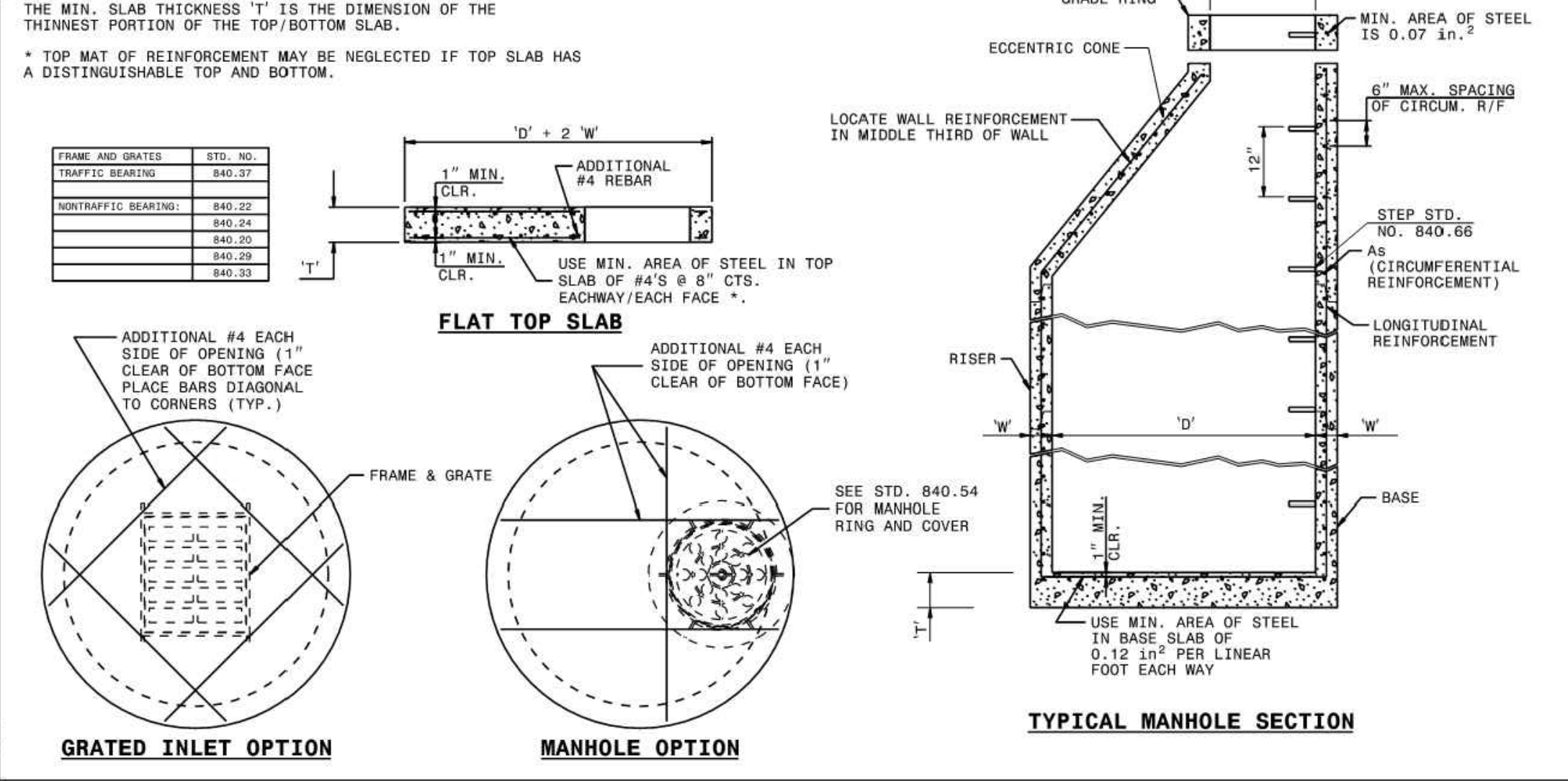
4" SEWER TAP and STUB-OUT PAVED APPLICATION CLEAN OUT

SCALE: Not To Scale DETAIL # 534.01
 REVISION DATE: April 15, 2007 SHEET # 1 of 1

PROJECT NO: 48833
 DATE: DECEMBER 1, 2002

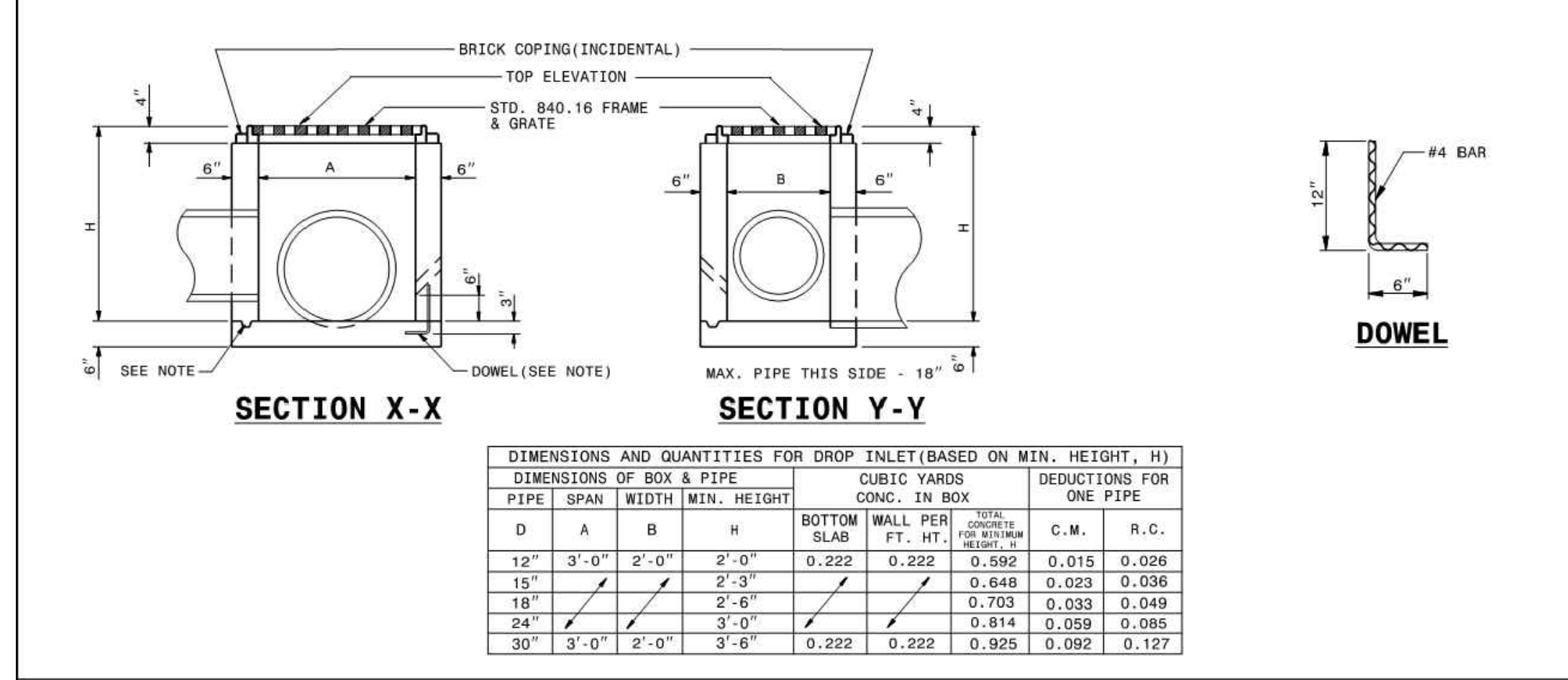
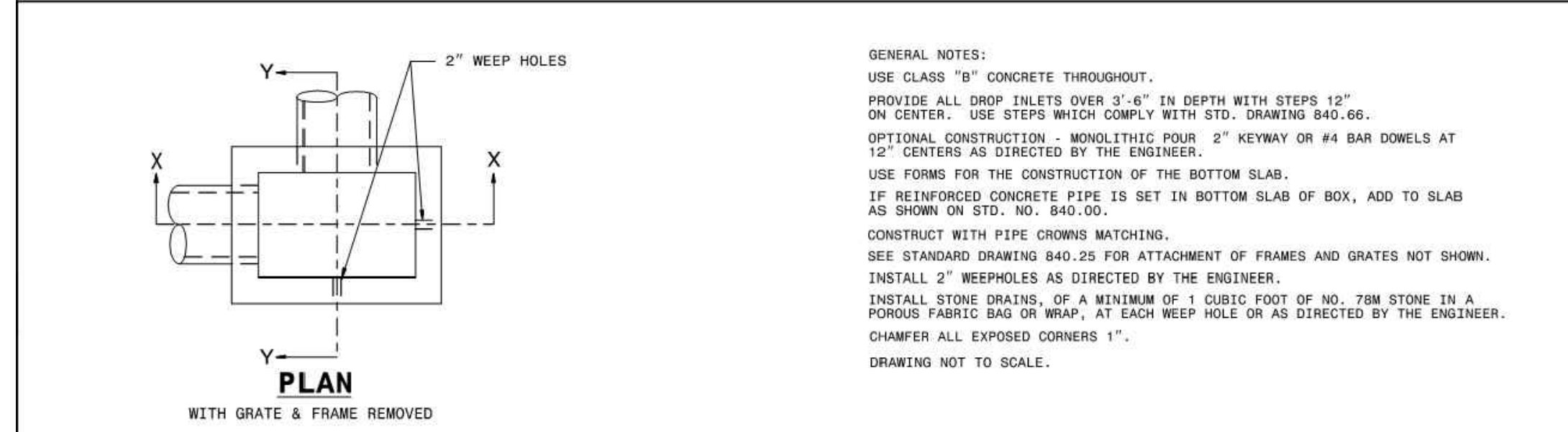
DATE	REVISIONS	DESCRIPTION

GENERAL NOTES
 USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
 USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (W/F).
 FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.
 ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.
 WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.
 LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.
 THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.
 * TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.



D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	6	0.12
5	5	8	0.15
6	6	8	0.18

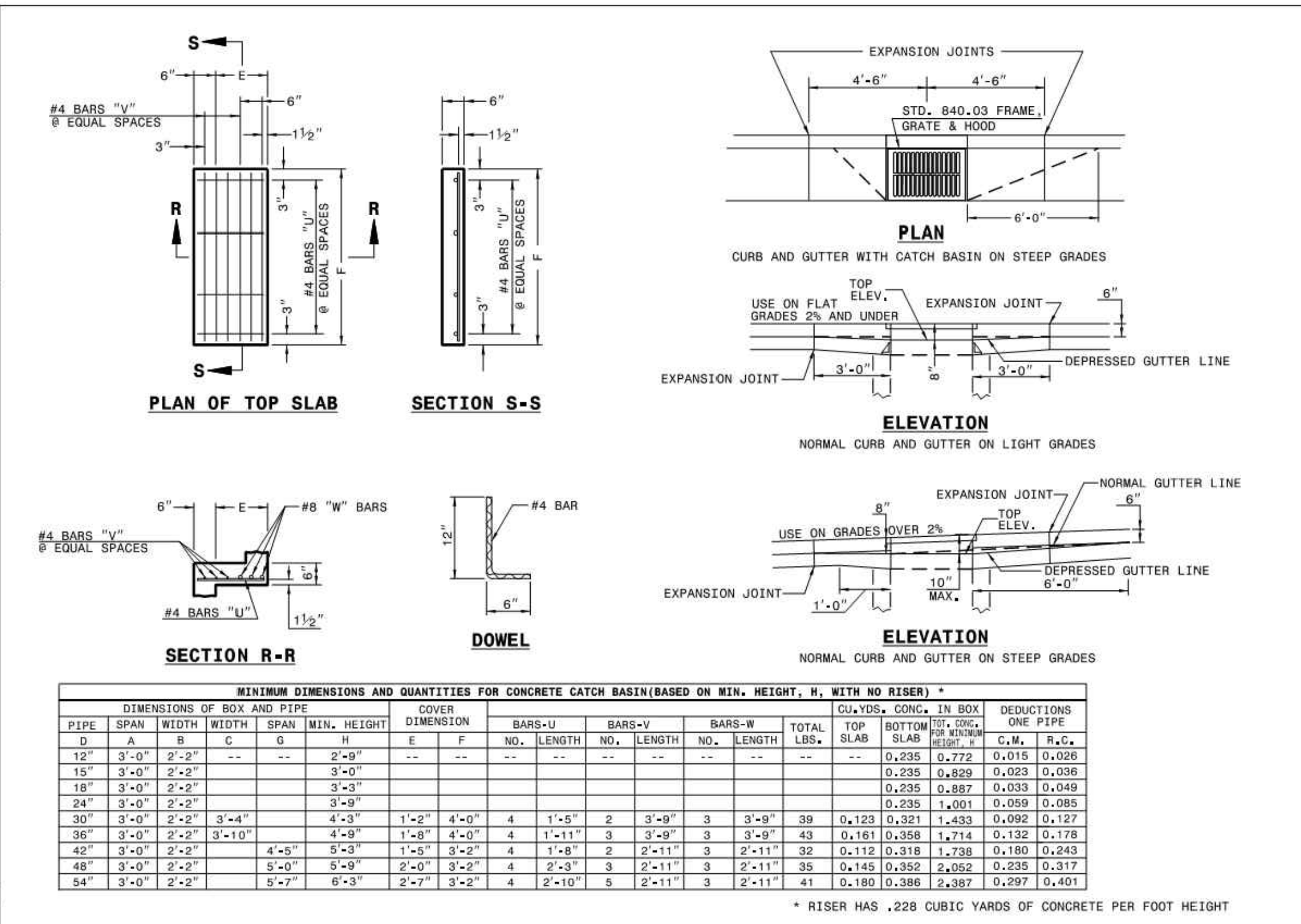
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
 12" THRU 48" PIPE
 SHEET 1 OF 1
840.52



DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)

PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	PER CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)	DEDUCTIONS FOR ONE PIPE	C.M.	R.C.
12"	3'-0"	2'-0"	2'-3"	0.222	0.222	0.592	0.015	0.026	
15"	3'-0"	2'-0"	2'-3"	0.648	0.623	0.036			
18"	3'-0"	2'-0"	2'-6"	0.703	0.033	0.049			
24"	3'-0"	2'-0"	3'-0"	0.814	0.059	0.085			
30"	3'-0"	2'-0"	3'-6"	0.925	0.092	0.127			

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

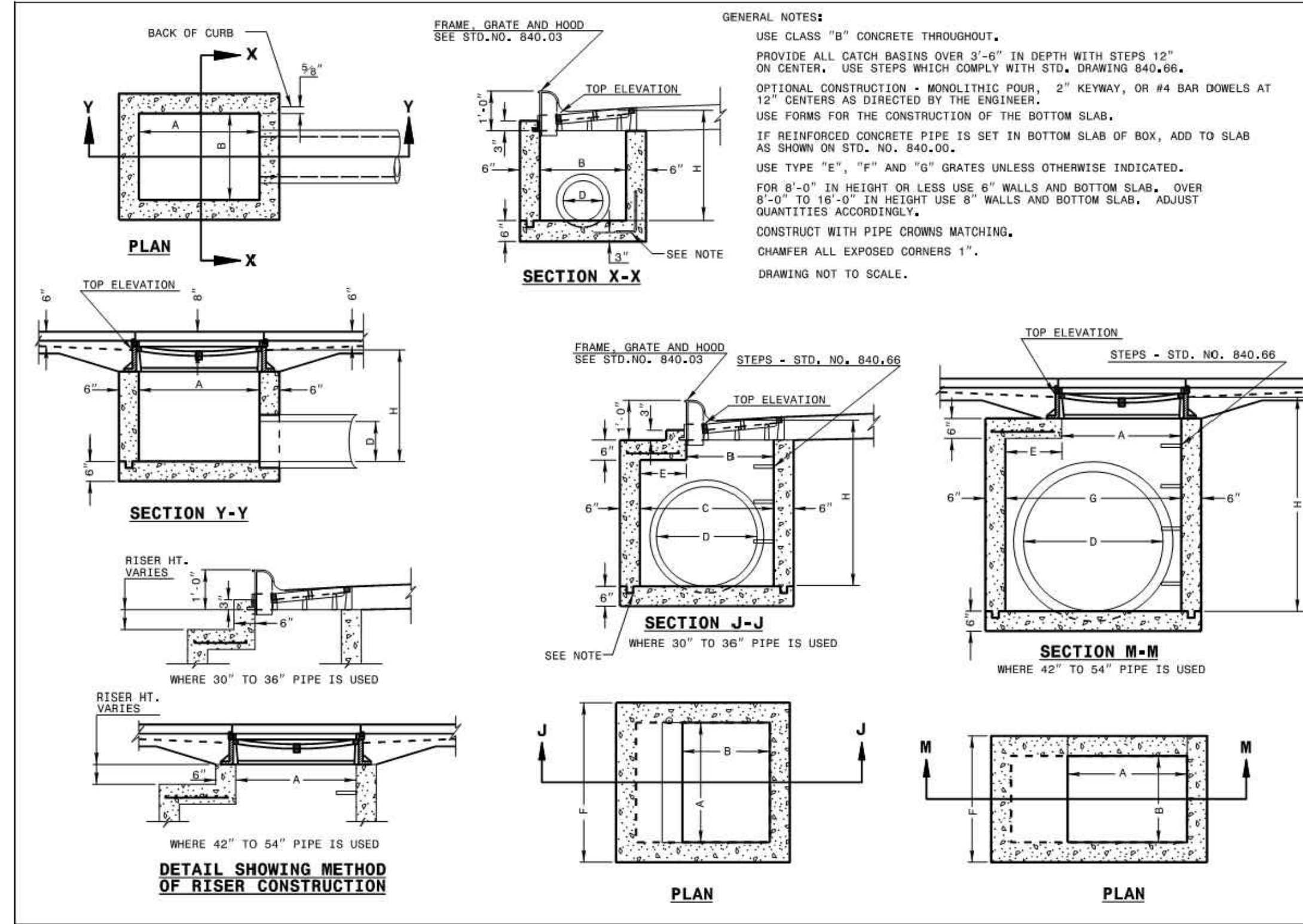


MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *

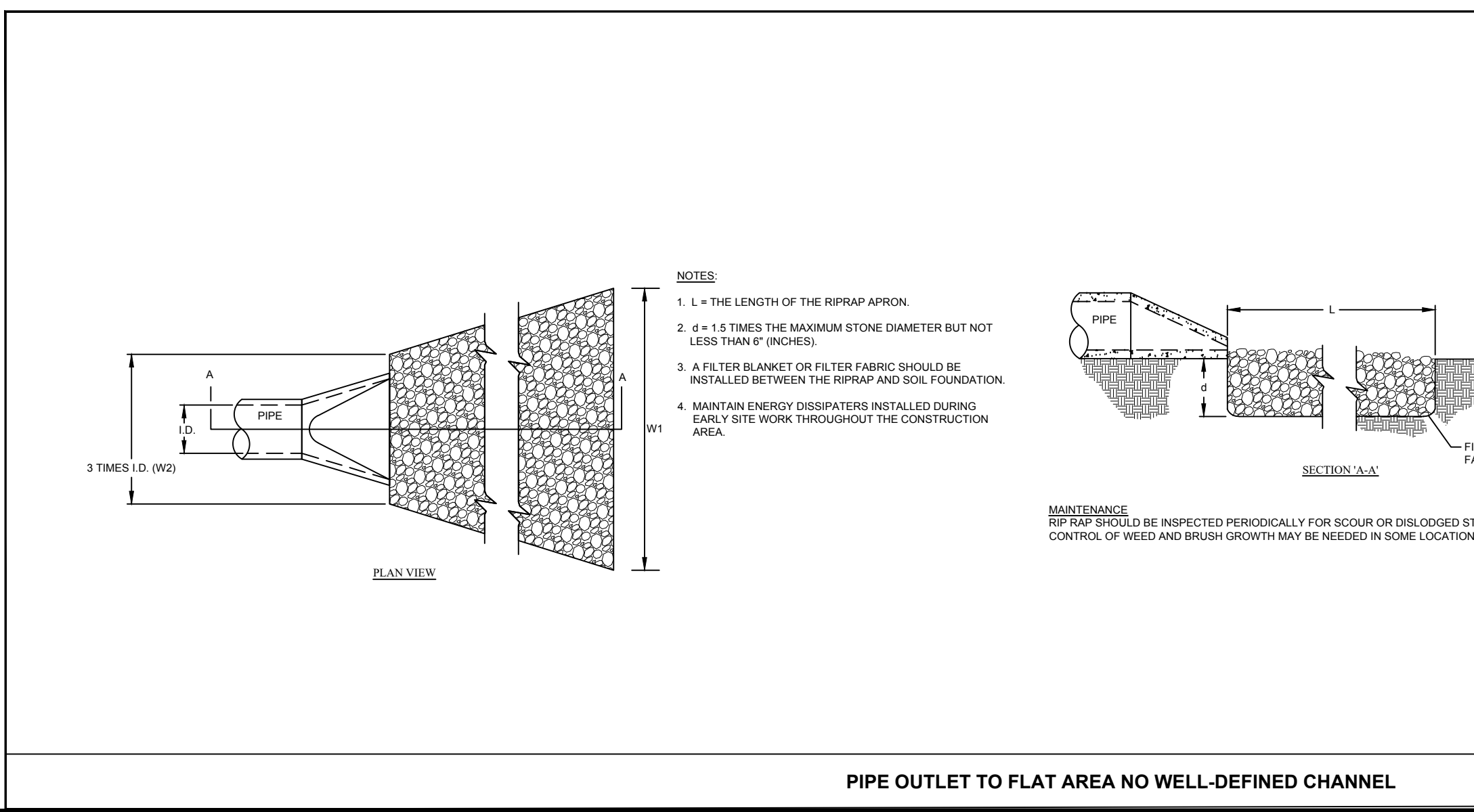
PIPE	SPAN	WIDTH	MIN. HEIGHT	COVER DIMENSION	BARS-U	BARS-V	BARS-W	TOTAL	TOP SLAB	WALL PER FT. HT.	PER CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)	DEDUCTIONS FOR ONE PIPE	C.M.	R.C.
12"	3'-0"	2'-2"	3'-0"	2'-9"	4	4	4	12	0.235	0.272	0.015	0.026		
15"	3'-0"	2'-2"	3'-0"	3'-0"	4	4	4	12	0.235	0.629	0.023	0.036		
18"	3'-0"	2'-2"	3'-3"	3'-3"	4	4	4	12	0.235	0.887	0.033	0.049		
24"	3'-0"	2'-2"	3'-9"	3'-9"	4	4	4	12	0.235	1.401	0.059	0.085		
30"	3'-0"	2'-2"	3'-10"	4'-3"	4	4	4	12	0.123	0.321	1.430	0.092	0.127	
36"	3'-0"	2'-2"	3'-10"	4'-9"	4	4	4	12	0.161	0.358	1.774	0.132	0.178	
42"	3'-0"	2'-2"	3'-10"	4'-5"	4	4	4	12	0.112	0.318	1.738	0.180	0.243	
48"	3'-0"	2'-2"	3'-10"	5'-0"	4	4	4	12	0.145	0.352	2.052	0.235	0.317	
54"	3'-0"	2'-2"	3'-10"	5'-7"	4	4	4	12	0.180	0.388	2.387	0.297	0.421	

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

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 ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE
 SHEET 2 OF 2
840.02



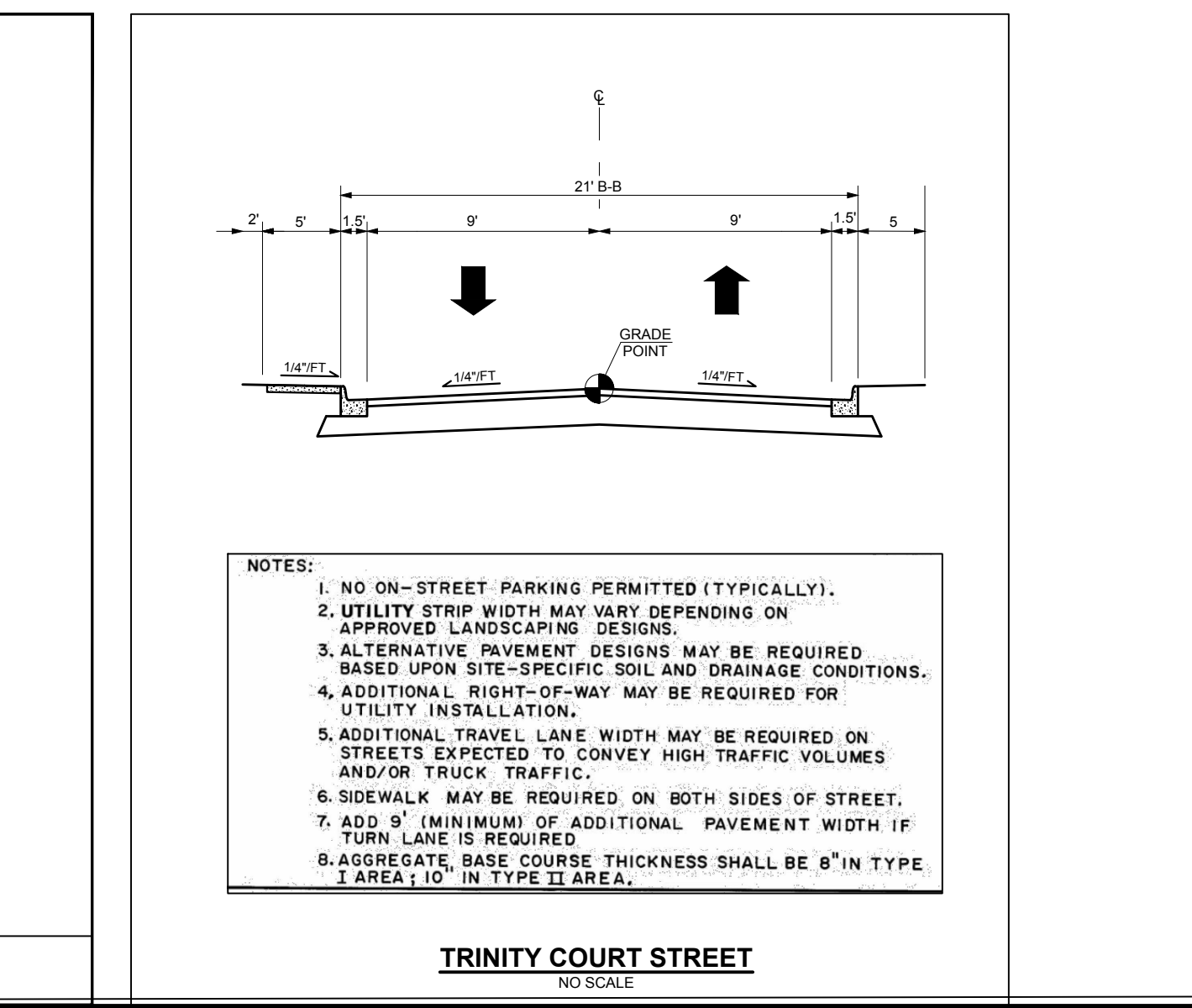
STATE OF NORTH CAROLINA
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 ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE
 SHEET 1 OF 2
840.02



ENERGY DISSIPATOR SCHEDULE

PIPE SIZE	W1 (FT.)	W2 (FT.)	LENGTH (FT.)	THICKNESS (IN.)	D50 SIZE (IN.)	STONE CLASS
RR-A1	15'	3.5	1.5	3.0	12	3 A
RR-B1	15'	3.5	1.5	3.0	12	3 A
RR-C1	15'	3.5	1.5	3.0	12	3 A

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 ROADWAY STANDARD DRAWING FOR
PIPE OUTLET TO FLAT AREA NO WELL-DEFINED CHANNEL
 SHEET 1 OF 1
840.02

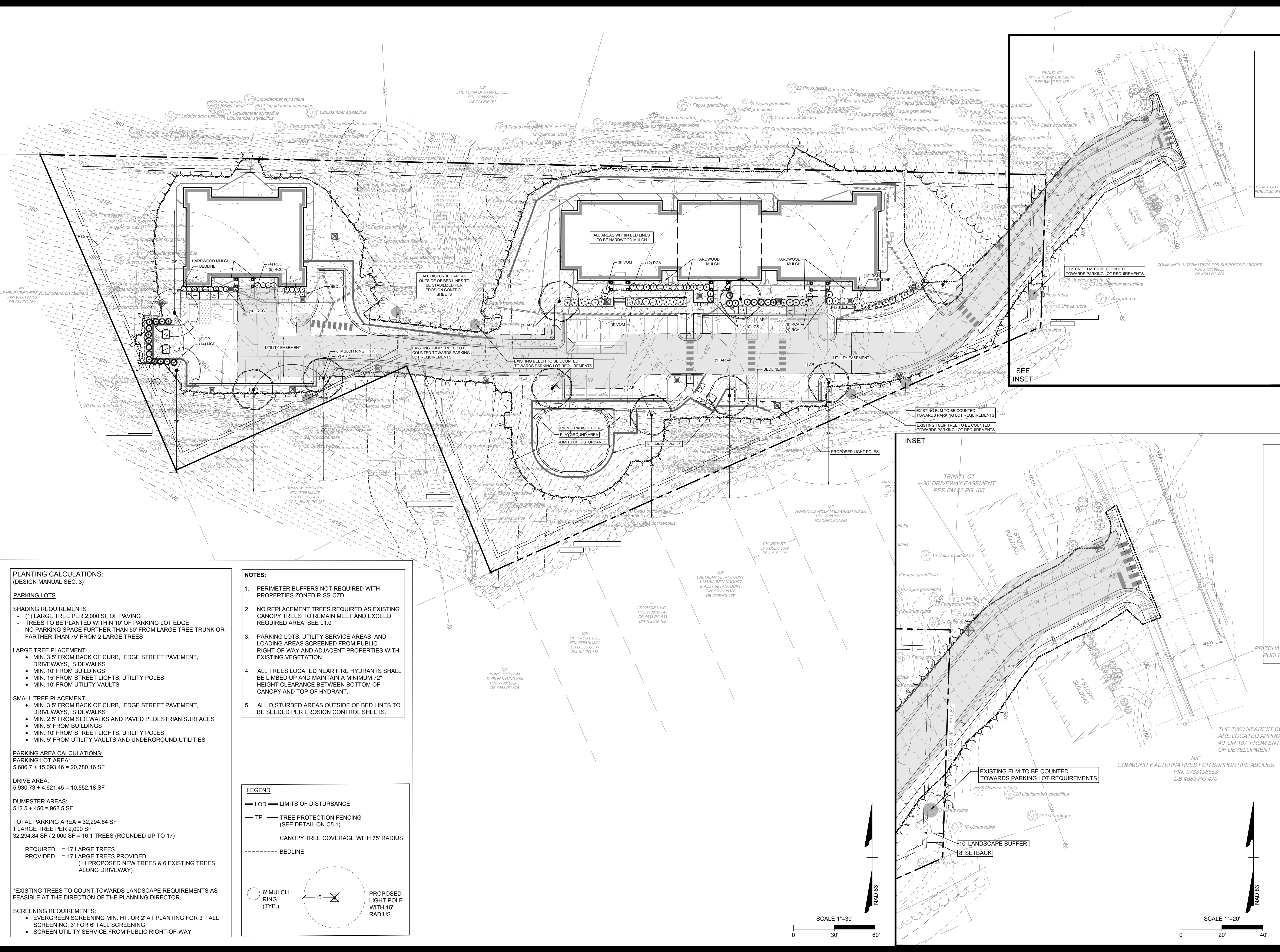


STATE OF NORTH CAROLINA
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 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
TRINITY COURT STREET
 NO SCALE
 SHEET 1 OF 1
840.02

REVISIONS

DATE	DESCRIPTION

DATE	REVISIONS	DESCRIPTION



PLANTING CALCULATIONS:
(DESIGN MANUAL SEC. 3)

PARKING LOTS

SHADING REQUIREMENTS:

- (1) LARGE TREE PER 2,000 SF OF PAVING
- TREES TO BE PLANTED WITHIN 10' OF PARKING LOT EDGE
- NO PARKING SPACE FURTHER THAN 50' FROM LARGE TREE TRUNK OR FARTHER THAN 75' FROM 2 LARGE TREES

LARGE TREE PLACEMENT:

- MIN. 3.5' FROM BACK OF CURB, EDGE STREET PAVEMENT, DRIVEWAYS, SIDEWALKS
- MIN. 10' FROM BUILDINGS
- MIN. 15' FROM STREET LIGHTS, UTILITY POLES
- MIN. 10' FROM UTILITY VAULTS

SMALL TREE PLACEMENT:

- MIN. 3.5' FROM BACK OF CURB, EDGE STREET PAVEMENT, DRIVEWAYS, SIDEWALKS
- MIN. 2.5' FROM SIDEWALKS AND PAVED PEDESTRIAN SURFACES
- MIN. 5' FROM BUILDINGS
- MIN. 10' FROM STREET LIGHTS, UTILITY POLES
- MIN. 5' FROM UTILITY VAULTS AND UNDERGROUND UTILITIES

PARKING AREA CALCULATIONS:

PARKING LOT AREA:
5,686.7 + 15,093.46 = 20,780.16 SF

DRIVE AREA:
5,930.73 + 4,621.45 = 10,552.18 SF

DUMPSTER AREAS:
512.5 + 450 = 962.5 SF

TOTAL PARKING AREA = 32,294.84 SF
1 LARGE TREE PER 2,000 SF
32,294.84 SF / 2,000 SF = 16.1 TREES (ROUNDED UP TO 17)

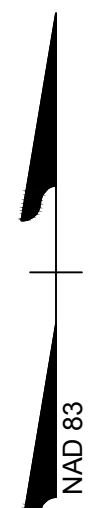
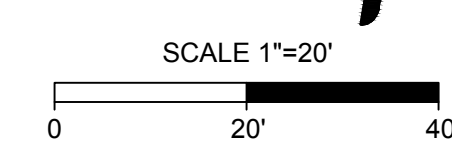
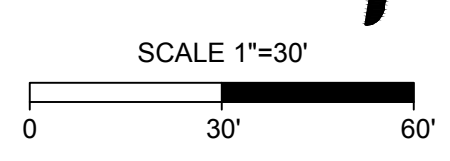
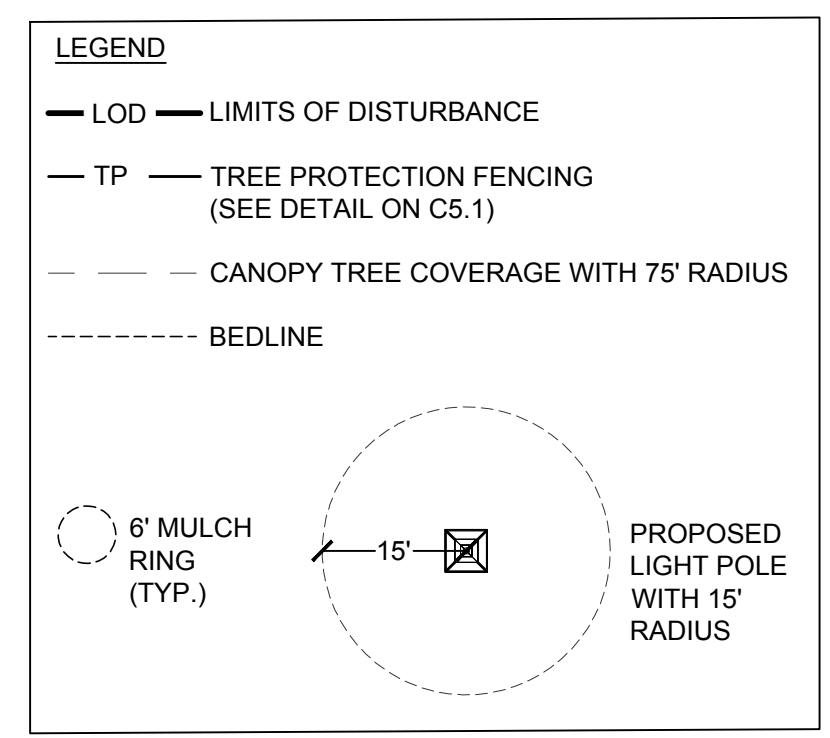
REQUIRED = 17 LARGE TREES
PROVIDED = 17 LARGE TREES PROVIDED
(11 PROPOSED NEW TREES & 6 EXISTING TREES ALONG DRIVEWAY)

*EXISTING TREES TO COUNT TOWARDS LANDSCAPE REQUIREMENTS AS FEASIBLE AT THE DIRECTION OF THE PLANNING DIRECTOR.

SCREENING REQUIREMENTS:

- EVERGREEN SCREENING MIN. HT. OR 2' AT PLANTING FOR 3' TALL SCREENING, 3' FOR 6' TALL SCREENING
- SCREEN UTILITY SERVICE FROM PUBLIC RIGHT-OF-WAY

- NOTES:**
- PERIMETER BUFFERS NOT REQUIRED WITH PROPERTIES ZONED R-SS-CZD
 - NO REPLACEMENT TREES REQUIRED AS EXISTING CANOPY TREES TO REMAIN MEET AND EXCEED REQUIRED AREA. SEE L1.0
 - PARKING LOTS, UTILITY SERVICE AREAS, AND LOADING AREAS SCREENED FROM PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES WITH EXISTING VEGETATION.
 - ALL TREES LOCATED NEAR FIRE HYDRANTS SHALL BE LIMBED UP AND MAINTAIN A MINIMUM 72" HEIGHT CLEARANCE BETWEEN BOTTOM OF CANOPY AND TOP OF HYDRANT.
 - ALL DISTURBED AREAS OUTSIDE OF BED LINES TO BE SEEDED PER EROSION CONTROL SHEETS.

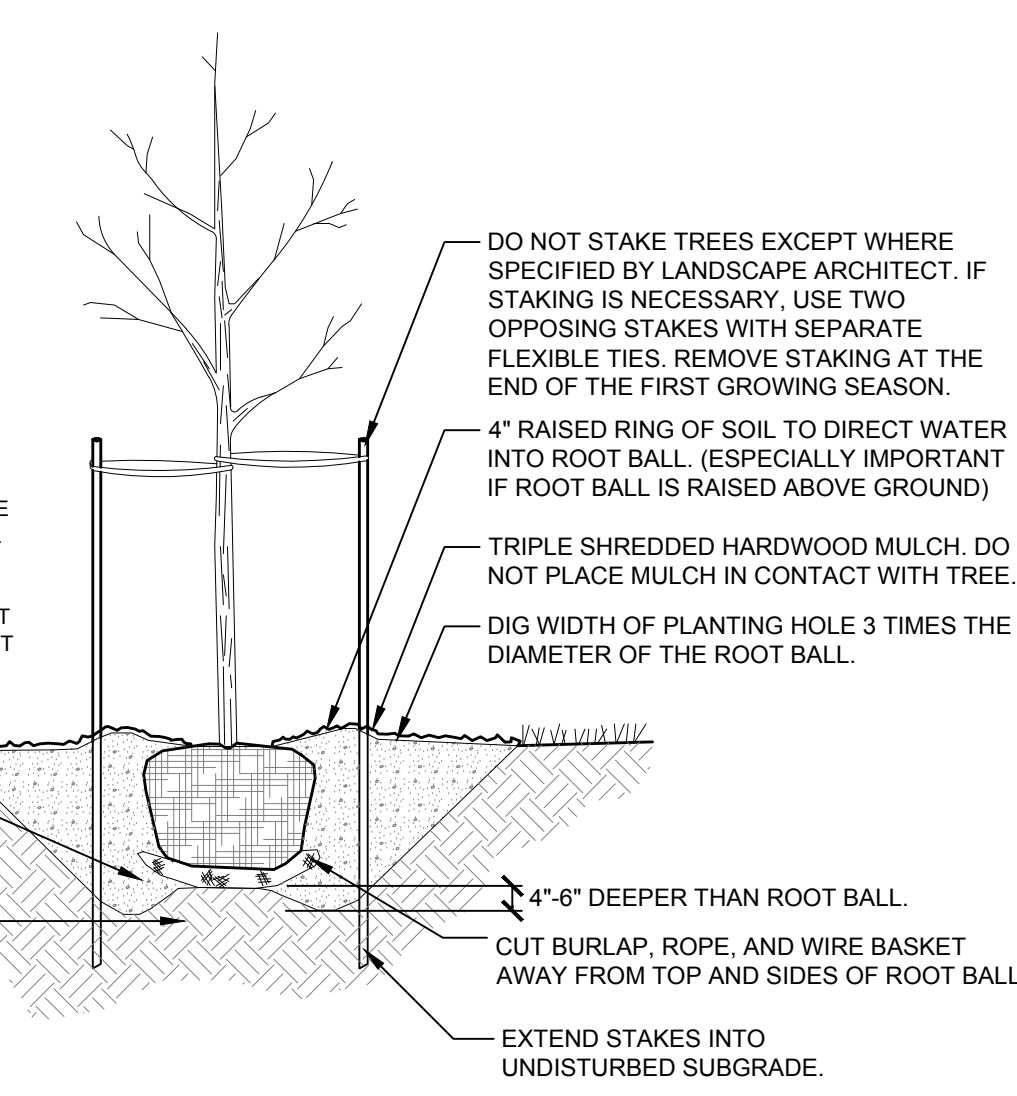




PROJECT NO: 48833 DATE: DECEMBER 1, 2022

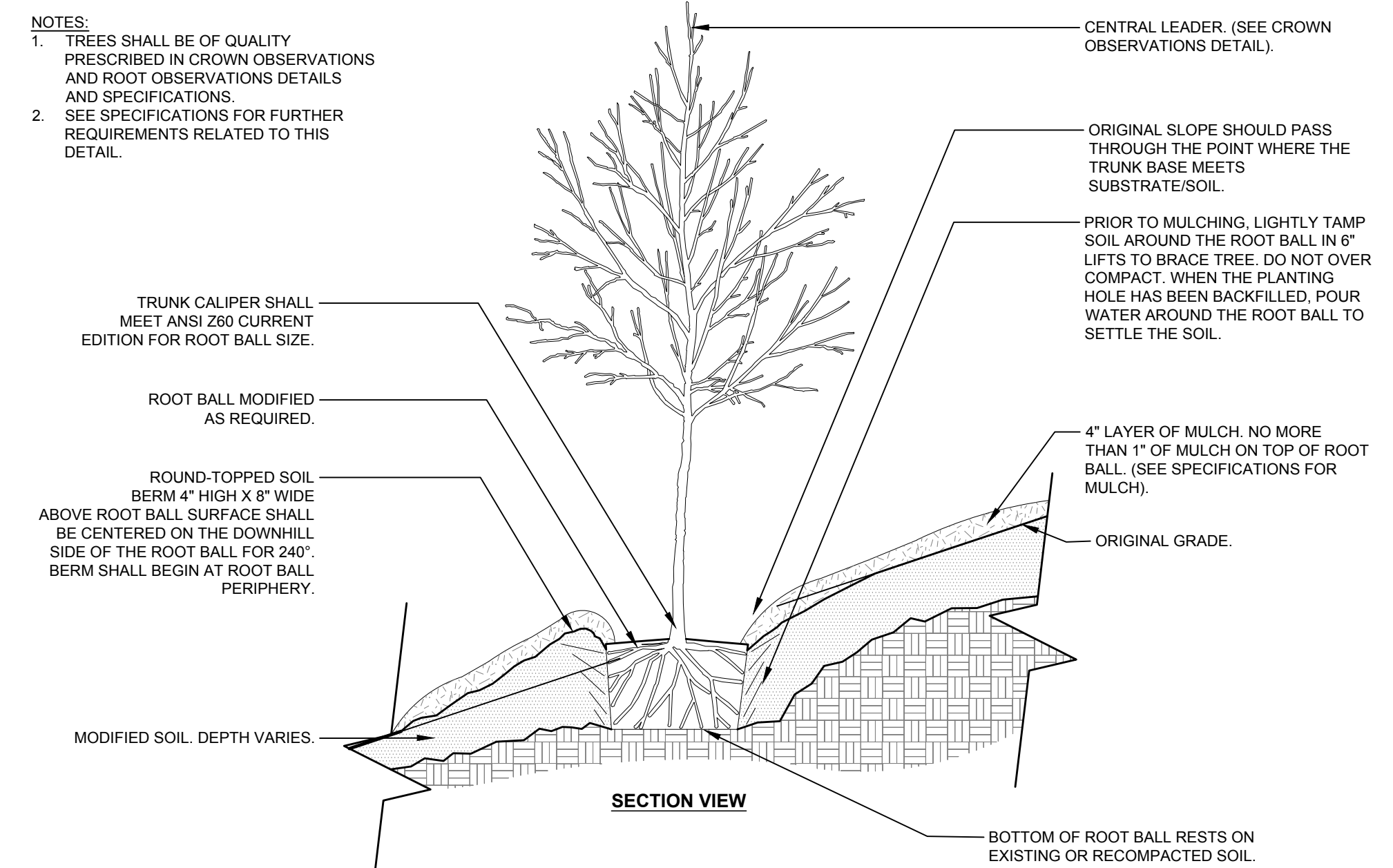
DATE	REVISIONS	DESCRIPTION
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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

- NOTES:**
- WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4'-6" (10-15CM) OVER THE ENTIRE AREA.
 - FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
 - DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL, USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
 - THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
 - THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
 - DO NOT MARK TRUNK MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
 - AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS.
 - BEFORE PLANTING, ADD 3/4" OF WELL-COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL SOIL.



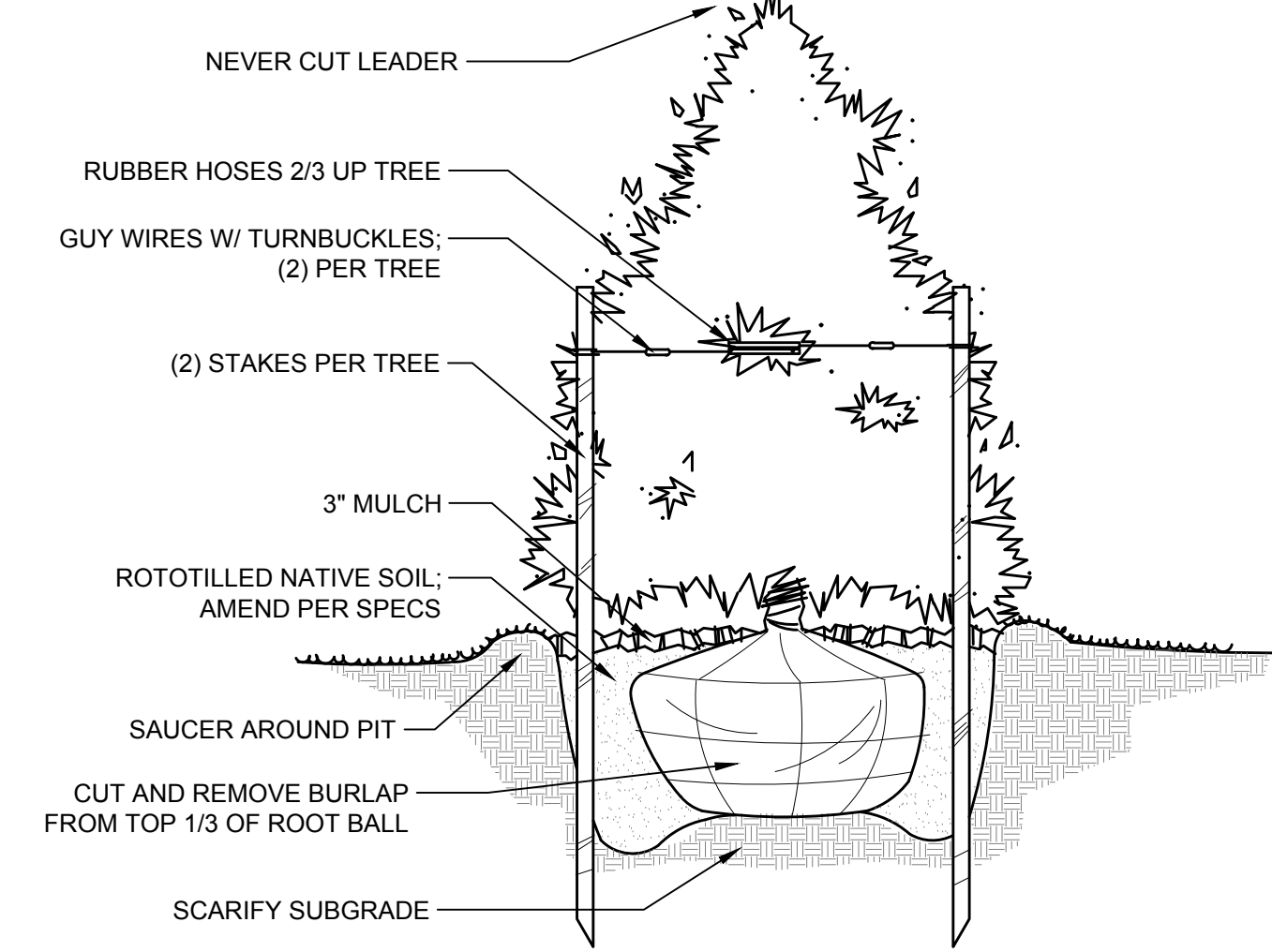
1 TREE PLANTING
NTS

- NOTES:**
- TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.
 - SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

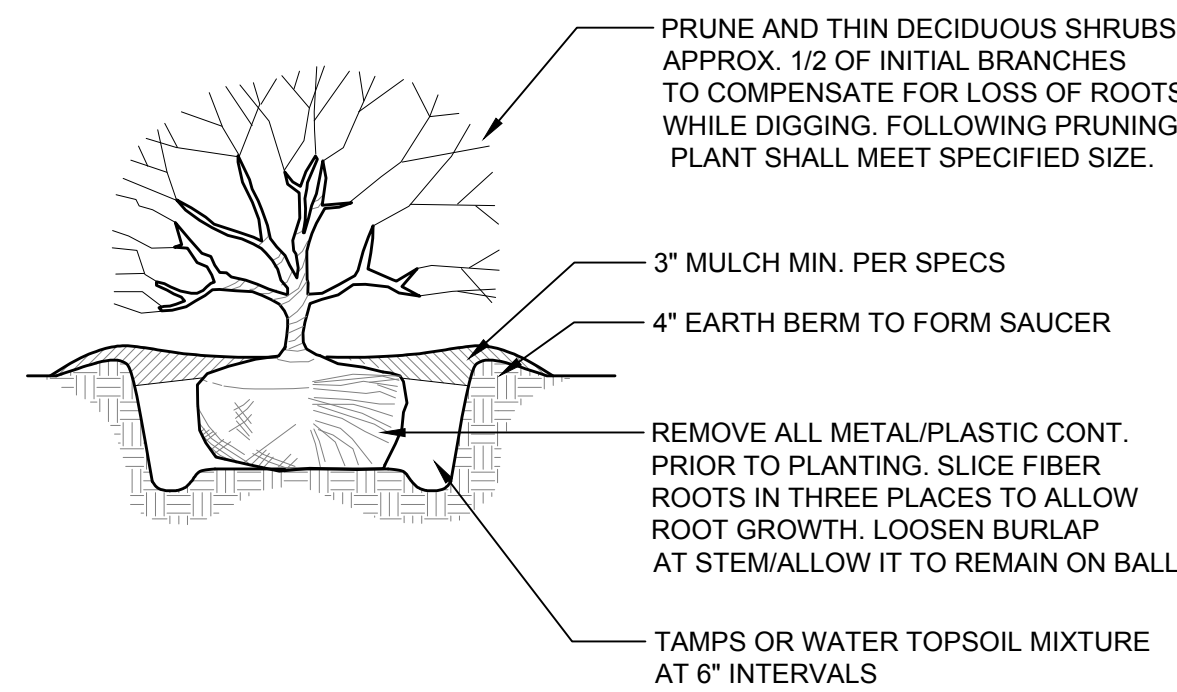


2 TREE PLANTING ON SLOPE
1/2" = 1'-0"

- NOTES:**
- Tree shall have same relation to grade as it had in nursery.



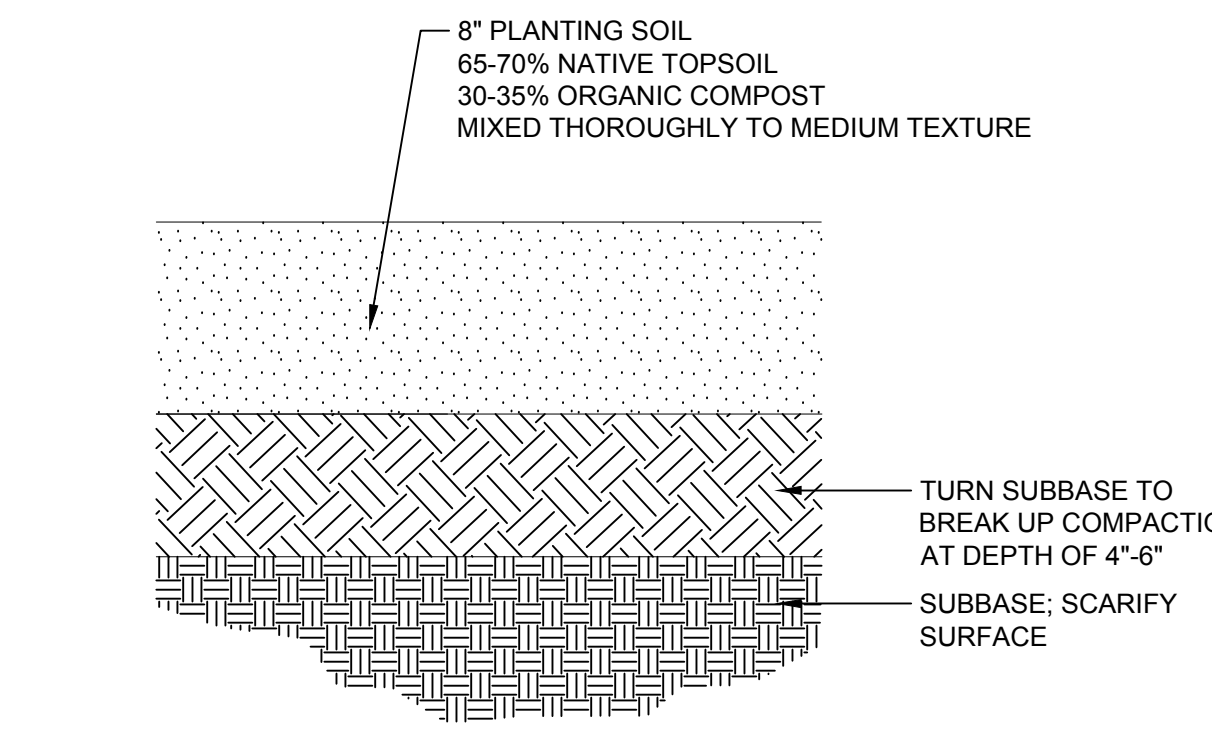
3 EVERGREEN PLANTING
NTS



- NOTES:**
- SOIL MIX: 1/3 ORGANIC MATTER, 2/3 EXIST. SOIL.
 - WIDTH OF PLANT PIT: SANDY SOIL, 24" WIDER THAN PLANT BALL; CLAY SOIL, 12" WIDER THAN PLANT BALL.
 - FOR PLANTING AREAS WHERE SOIL HAS BEEN COMPACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
 - FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL.
 - SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

4 SHRUB PLANTING
NTS

- NOTES:**
- All material to be free of toxic substances, weed seed, stones, sticks or other material harmful to plant growth. Topsoil: ph range of 6.0 to 7.0, min. 6% organic matter.
 - Compost: well-composted, stable, weed-free organic matter, ph range of 5.5 to 8.
 - Submit soil sample for analysis ... provide amendments per recommendations.
 - Remove any debris, rocks, or clumps 2" or larger.
 - Do not spread if planting soil, topsoil or subgrade is frozen, muddy, or excessively wet.



5 PLANTING SOIL PROFILE
NTS

GENERAL PLANTING NOTES:

- ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANS Z60. ALL TREES MUST BE INSPECTED BY URBAN FORESTRY STAFF PRIOR TO INSTALLATION.
- PLANT LOCATIONS TO BE APPROVED IN FIELD PRIOR TO INSTALLATION. NO TREES MAY BE INSTALLED BETWEEN MARCH 30TH AND OCTOBER 1ST.
- SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT.
- ESTABLISH PLANT BED CONFIGURATIONS. LANDSCAPE ARCHITECT TO APPROVE BED LAYOUT IN FIELD.
- PREPARE PLANT BEDS PER SPECIFICATIONS.
- INSTALL PLANTS AND MULCH BEDS WITH 4" OF SHREDDED HARDWOOD MULCH.
- ESTABLISH MULCH BEDS AROUND EXISTING TREES TO REMAIN.
- DISTURBED AREAS NOT NOTED FOR PLANTS OR IMPROVEMENTS TO BE SEEDED AND STRAWED WITH A TALL FESCUE MIX.
- LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR THE PERIOD FOLLOWING SUBSTANTIAL COMPLETION AS NOTED IN THE SPECIFICATIONS.
- AREAS DAMAGED ACTIVITIES OF LANDSCAPE CONTRACTOR TO BE RESEDED AND ESTABLISHED AT NO ADDITIONAL COST TO THE OWNER.
- USE HERBICIDES, PESTICIDES, AND FERTILIZER IN A MANNER CONSISTENT WITH THE FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT AND IN ACCORDANCE WITH LABEL RESTRICTIONS.
- CONTRACTOR IS RESPONSIBLE FOR IMPORTING, TESTING, AND PREPARING THE SOIL ON SITE PER THE SPECIFICATION.
- PLANTS SHALL BE WATERED AT LEAST 2 TIMES PER WEEK UNLESS SOIL IS MOIST BASED ON CORE SAMPLE OR MOISTURE METER READINGS. WATER MORE FREQUENTLY DURING ESTABLISHMENT. ONCE PLANTS GO DORMANT, REDUCE WATERING AMOUNTS UNTIL THE ACTIVE GROWING SEASON RECONVENES AT THE BEGINNING OF APRIL OR WHEN PLANTS BEGIN TO LEAF OUT, WHICHEVER COMES FIRST. WHEN WATERING PLANTS, WATER AT THE BASE OF THE PLANT WITH LOW FLOW HOSE END NOZZLE. WATER FOR A MINIMUM OF 5-10 MINUTES PER PLANT FOR DEEP AND SLOW SOAKING INTO THE ROOT ZONE OF EACH PLANT. DURING DROUGHT PERIODS ALL WATER RESTRICTIONS APPLY. IT MAY BE NECESSARY TO TRUCK IN NON-CITY WATER TO MEET THE NEEDS OF THE PLANT MATERIAL. THIS SHALL APPLY TO ALL PLANTED AREAS INCLUDING THE NO-MOW AREAS.
- REMOVE (EITHER MANUALLY OR WITH PESTICIDE TREATMENT) ALL WEEDS IN MULCH AREAS, PLANT BEDS, TREE RINGS, AND HARDSCAPE AREAS, INCLUDING BUT NOT LIMITED TO NUTSEDGE, GRASSES, INVASIVE PLANTS, AND ANY NON-DESIRED PLANT MATERIAL. THIS TREATMENT SHALL OCCUR MONTHLY UNTIL THE END OF THE WARRANTY / MAINTENANCE PERIOD.
- MULCH SHALL BE REPLISHED AS NEEDED, ESPECIALLY AFTER HEAVY RAIN EVENTS.
- SOIL DUG FROM THE PLANTING PIT SHOULD BE USED FOR BACKFILLING IN ORDER TO AVOID CREATING SOIL INTERFACES AT THE EDGE OF THE PLANTING PIT. THE BACKFILL MAY BE AMENDED TO CONTAIN A MAXIMUM OF 10% ADDED ORGANIC MATTER. THE BACKFILL SHOULD BE LOOSE AND FRIABLE AT THE TIME OF PLANTING.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE	REMARKS
AR	9	ACER RUBRUM	RED MAPLE	2" CAL., 8' HT. MIN.	B&B OR CONTAINER	SINGLE STRAIGHT LEADER; UNIFORM CANOPY	LARGE DECIDUOUS TREE - PARKING LOT
QP	2	QUERCUS PAGODA	CHERRYBARK OAK	2" CAL., 8' HT. MIN.	B&B OR CONTAINER	SINGLE STRAIGHT LEADER; UNIFORM CANOPY	LARGE DECIDUOUS TREE - PARKING LOT
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	REMARKS	REMARKS
IGS	10	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 5HT X 5W
MCD	14	MYRICA CERIFERA 'DON'S DWARF'	DON'S DWARF WAX MYRTLE	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 5HT X 5W
RCA	22	RHOODODENDRON CATAWBIENSE 'ANAH KRUSCHKE'	ANAH KRUSCHKE RHOODODENDRON	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 5HT X 5W
RCC	19	RHOODODENDRON CATAWBIENSE 'CHIONOIDES'	CHIONOIDES RHOODODENDRON	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 4HT X 4W
RCN	12	RHOODODENDRON CATAWBIENSE 'NOVA ZEMBLA'	CATAWBA RHOODODENDRON	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 5HT X 5W
VOM	16	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLERS DELIGHT WALTER'S VIBURNUM	24" HT./SPRD.	CONTAINER	FULL AND DENSE	EVERGREEN SHRUB, MATURE SIZE = 5HT X 5W

MAINTENANCE PLAN:

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNER SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE, BUT NOT LIMITED TO:

- FERTILIZATION: FERTILIZATION LAWN AREAS TWICE PER YEAR (ONCE IN EARLY MARCH AND ONCE IN MID-SEPTEMBER) PER SOIL TESTS.
 - PRUNING: PRUNING OF TREES SHALL BE LIMITED TO REMOVAL OF DEAD BRANCHES OR THE REMOVAL OF BRANCHES FOR THE FIRST 13 1/2 FOOT VERTICAL CLEARANCE DISTANCE ABOVE THE ENTRANCE DRIVEWAYS TO ALLOW FOR EMERGENCY ACCESS. THE PRUNING OF SHRUBS SHALL BE LIMITED TO MAINTAINING THE NATURAL SHAPE OF THE PLANT AND THE REMOVAL OF DEAD WOOD.
 - MULCHING: MULCHING SHALL BE MAINTAINED AT 2-3" DEPTH IN PLANT BEDS AND REAPPLIED EVERY 2 YEARS OR AS NEEDED. MULCH SHOULD BE TRIPLE SHREDDED, NON-DYED, HARDWOOD MULCH IN ALL AREAS ADJACENT TO THE BUILDING. THE MULCH IN NATURAL AREAS MAY BE PINESTRAW OR PINEBARK MULCH AS CHOSEN BY THE OWNER.
 - PROTECTION OF THE ROOT ZONES FROM EQUIPMENT, CONSTRUCTION AND RELATED MATERIALS. HEAVY EQUIPMENT AND VEHICLES SHALL BE KEPT OUT OF ESTABLISHED PLANT BEDS.
 - WATERING: PLANTS ARE TO BE REGULARLY WATERED FOR THE FIRST 6 MONTHS. ONCE ESTABLISHED MANUAL WATERING IS NOT TO OCCUR UNLESS THE HEALTH OF THE PLANT IS THREATENED BY LACK OF RAINFALL.
 - ORNAMENTAL GRASSES TO BE CUT BACK TO 6" HIGH ONCE A YEAR IN THE MONTH OF FEBRUARY PRIOR TO NEW SPROUT GROWTH.
- FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MY CONSTITUTE A VIOLATION OF THE TOWN OF CHAPEL HILL ORDINANCE AND MAY RESULT IN FINES.**