

R-1 (RESIDENTIAL)	REQUIRED	PROPOSED (PHASE 1)
MIN. LOT AREA:	17,000 SF	172,960
MIN. LOT FRONTAGE	64 FT	>64 FT
MIN. LOT WIDTH	80 FT	>80 FT
MAX. BUILDING HEIGHT	29 FT (PRIMARY) 40 FT (SECONDARY)	<29 FT (PRIMARY) <40 FT (SECONDARY)
MAX. FLOOR AREA RATIO	SEE BELOW	SEE BELOW
MAX. LOT COVERAGE	0.7	4.132 SF (2.39% IMPERVIOUS)
BUILDING SETBACK		
MIN. FRONT STREET YARD SETBACK	28 FT	0 FT +/-
MIN. SIDE YARD SETBACK	14 FT	0 FT +/-
MIN. SOLAR (NORTHERN REAR) YARD SETBACK	17 FT	0 FT +/-
BUFFERYARD SETBACK		
MIN. FRONT YARD SETBACK	20 FT / 30 FT	20 FT / 30 FT
MIN. SIDE YARD SETBACK	20 FT	20 FT
MIN. REAR YARD SETBACK	20 FT	20 FT
VEHICLE PARKING		
VEHICLE PARKING	20 min / 25 max	0
BICYCLE PARKING	8	0
TOTAL IMPERVIOUS AREA (OF GLA)		
TOTAL IMPERVIOUS AREA (OF GLA)	7,896 SF (4.15%)	4,398 SF (2.54%)
NON RCD ZONE IMPERVIOUS AREA (ON LOT)	7,630 SF (4.41%)	4,132 SF (2.39%) (ex gravel dr.)
IMPERVIOUS AREA IN RIGHT OF WAY		0 SF (0.07%)
ZONE 1 IMPERVIOUS AREA	0 SF (0.0%)	0 SF (0.0%)
ZONE 2 IMPERVIOUS AREA	0 SF (0.0%)	0 SF (0.0%)
ZONE 3 IMPERVIOUS AREA	266 SF (0.15%)	266 SF (0.15%) (ex. Sugar Shack)
TOTAL LAND DISTURBANCE AREA		
TOTAL LAND DISTURBANCE AREA	N/A	4,888 SF (2.57%) GLA
NON RCD ZONE LAND DISTURBANCE AREA	N/A	4,888 SF (2.83%) ZONING
ZONE 1 LAND DISTURBANCE AREA	N/A	0 SF (0.0%)
ZONE 2 LAND DISTURBANCE AREA	N/A	0 SF (0.0%)
ZONE 3 LAND DISTURBANCE AREA	N/A	0 SF (0.0%)
SLOPE CATEGORY		
SLOPE CATEGORY	DELINEATED AREAS	DISTURBED AREAS
0% TO 14.99%	31,297 SF (18.09%)	* ± 11,660 SF (6.74%)
15% TO 24.99%	50,356 SF (29.11%)	* ± 26,192 SF (15.14%)
25% & GREATER	91,307 SF (52.79%)	* ± 1,266 SF (0.75%)
FLOOR AREA CALCULATIONS		
GROSS LAND AREA (GLA)	172,960 sf x 1.10 = 190,256 sf	
NON RCD ZONE	87,212 sf (50.42%)	(87,212x0.076) = 6,628 sf
ZONE 1	24,311 sf (14.06%)	(24,311x0.01) = 243 sf
ZONE 2	31,149 sf (18.01%)	(31,149x0.019) = 592 sf
ZONE 3	30,288 sf (17.51%)	(30,288x0.076) = 2,302 sf
EFFECTIVE FLOOR AREA RATIO (EFAR)		(9,765 sf / 172,960 sf) = 0.0564
ALLOWABLE FLOOR AREA MAXIMUM (GLA x EFAR)		(190,256 sf x 0.0564) = 10,730 sf
PROPOSED FLOOR AREA		266 sf
TREE CANOPY AREA TO REMAIN	69,184 SF (40.00%)	114,275 SF (66.00%)

* AREAS SHOWN ARE FOR ENTIRE DEVELOPMENT

CHAPEL HILL COOPERATIVE PRESCHOOL

ZONING COMPLIANCE PERMIT (ZCP) APPLICATION

PHASE ONE

PIN: 9787-29-6199; 9787-29-7266; 9787-29-9047; 9787-39-0045

108 MT. CARMEL CHURCH ROAD

REVISED: 2018-09-19

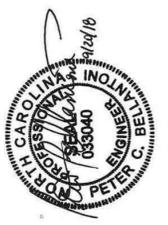
PREPARED FOR:

CHAPEL HILL COOPERATIVE PRESCHOOL

106 PUREFOY ROAD
CHAPEL HILL, NC, 27514
(919) 942-3955

SHEET LIST TABLE				
SHEET	PAGE	DESCRIPTION	DATE SUBMITTED	DATE REVISED
CS0001	1	COVER SHEET	7/25/2018	
CS0002	2	GENERAL NOTES AND LEGEND	7/25/2018	
CS0201	3	EXISTING CONDITIONS PLAN	7/25/2018	
CS0202	4	SLOPE ANALYSIS PLAN	7/25/2018	
CS0501	5	DEMOLITION PLAN	7/25/2018	
CS1001	6	SITE PLAN	7/25/2018	
CS8001	7	CONSTRUCTION MANAGEMENT PLAN	7/25/2018	
CS8002	8	EROSION CONTROL PLAN	7/25/2018	
CS8501	9	EROSION & SEDIMENT CONTROL DETAILS	7/25/2018	
CS8502	10	DETAILS	7/25/2018	

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK



CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

COVER SHEET

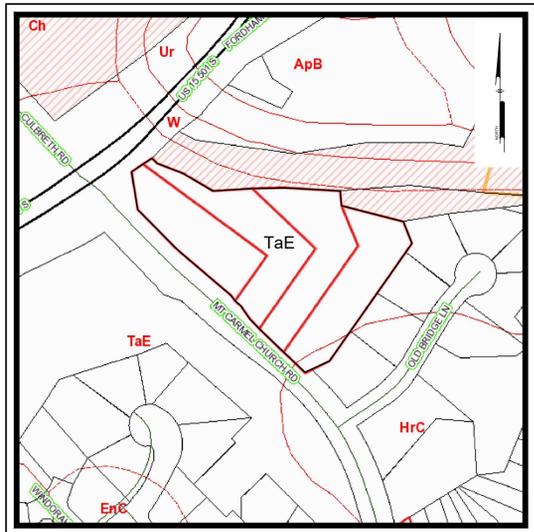
CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CLJ

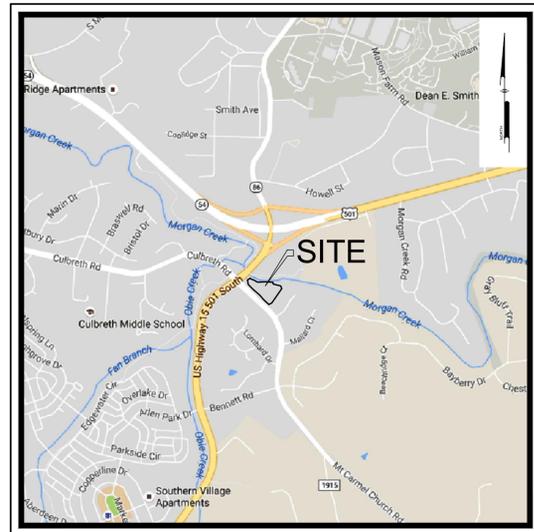
ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	AS SHOWN
DRAWN BY	DC
APPROVED BY	PCB

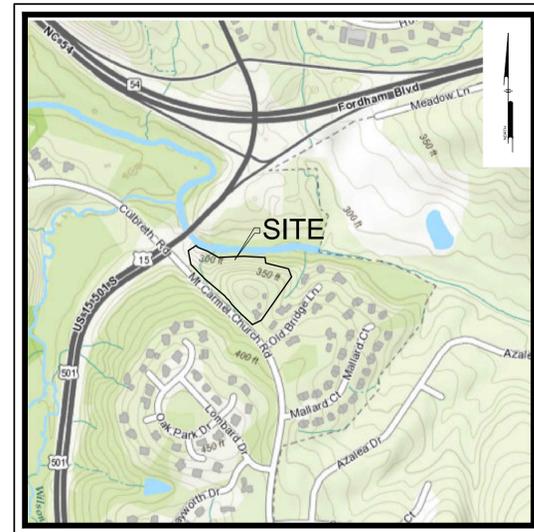
CS0001
SHEET 1 OF 10



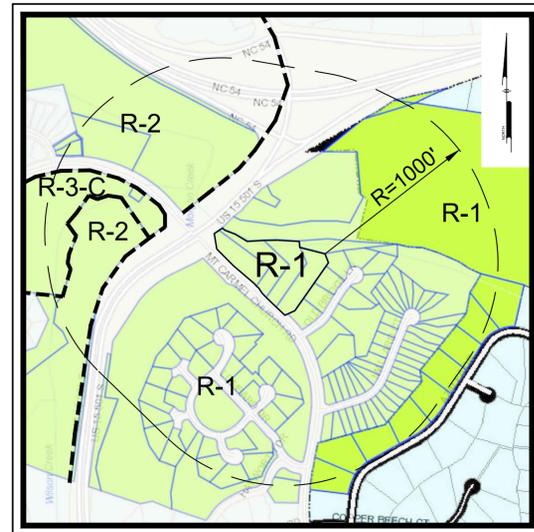
SOILS MAP
Scale: 1" = 250'



LOCATION MAP
Scale: 1" = 1000'



USGS MAP
Scale: 1" = 500'



AREA MAP
Scale: 1" = 500'

PREPARED BY:
PENNONI ASSOCIATES INC.



401 Providence Road #200
Chapel Hill, NC 27514
T 919.929.1173
F 919.493.6548

Firm License
F-1267



PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		CABLE TV, JUNCTION BOX
		CABLE TV, MANHOLE
		CABLE TV, OVERHEAD
		CABLE TV, PANEL BOX
		CABLE TV, PEDESTAL
		CABLE TV, STUB OUT
		CABLE TV, UNDERGROUND
		CABLE TV, WITNESS POST
		CHANNEL
		COMMUNICATION, HANDHOLE
		COMMUNICATION, JUNCTION BOX
		COMMUNICATION, MANHOLE
		COMMUNICATION, OVERHEAD
		COMMUNICATION, PANEL BOX
		COMMUNICATION, PEDESTAL
		COMMUNICATION, STUB OUT
		COMMUNICATION, UNDERGROUND
		COMMUNICATION, WITNESS POST
		CONTROL, BENCHMARK
		CONTROL, GPS
		CONTROL, MAPPING
		CONTROL, REFERENCE
		CONTROL, TRAVERSE
		CURB
		CURB DEPRESSION
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		EASEMENT
		FENCE
		FIBER OPTIC, HANDHOLE
		FIBER OPTIC, JUNCTION BOX
		FIBER OPTIC, MANHOLE
		FIBER OPTIC, OVERHEAD
		FIBER OPTIC, PANEL BOX
		FIBER OPTIC, PEDESTAL
		FIBER OPTIC, STUB OUT
		FIBER OPTIC, UNDERGROUND
		FIBER OPTIC, WITNESS POST
		FLOODPLAIN
		FUEL, MANHOLE
		FUEL, OVERHEAD
		FUEL, PLUG
		FUEL, PUMP
		FUEL, UNDERGROUND
		GUIDE RAIL
		LIMITS OF DISTURBANCE
		MARKING, HANDICAP PARKING
		NATURAL GAS, METER
		NATURAL GAS, MANHOLE
		NATURAL GAS, OVERHEAD
		NATURAL GAS, STUB OUT
		NATURAL GAS, UNDERGROUND
		NATURAL GAS, WITNESS POST
		PHONE, HANDHOLE
		PHONE, JUNCTION BOX
		PHONE, MANHOLE
		PHONE, OVERHEAD
		PHONE, PANEL BOX
		PHONE, PEDESTAL
		PHONE, STUB OUT
		PHONE, UNDERGROUND
		PHONE, WITNESS POST
		POWER, GUY POLE
		POWER, GUY WIRE
		POWER, HANDHOLE
		POWER, JUNCTION BOX
		POWER, SINGLE HEAD LIGHT
		POWER, DOUBLE HEAD LIGHT
		POWER, THREE HEAD LIGHT
		POWER, FOUR HEAD LIGHT
		POWER, LIGHT
		POWER, SPOT LIGHT
		POWER, LIGHT POLE SINGLE
		POWER, LIGHT POLE DOUBLE
		POWER, MANHOLE
		POWER, OVERHEAD
		POWER, METER
		POWER, PANEL BOX
		POWER, PEDESTAL
		POWER, STUB OUT
		POWER, TRANSFORMER
		POWER, UNDERGROUND
		POWER, UTILITY POLE
		POWER, WITNESS POST
		POWER, YARD LIGHT
		PROPERTY, LINE
		LEGAL RIGHT-OF-WAY
		PROPERTY, CORNER FOUND
		PROPERTY, CORNER FOUND (OTHERS)
		PROPERTY, CONCRETE MONUMENT
		PROPERTY, ADJOINING LINED
		PROPERTY, LINE RESERVED
		RAIL, MILE MARKER
		RAIL, PANEL BOX
		RAIL, TRACK
		SITE, AIR COMPRESSOR
		SITE, AIR CONDITIONER
		SITE, BOLLARD
		SITE, BORING LOCATION
		BUILDING
		SITE, FLAG POLE
		SITE, HEAD STONE
		SITE, MAIL BOX
		SITE, MONITOR WELL
		SITE, PARKING METER
		SITE, POST
		SITE, SIGN POST AND BOARD
		SITE, TRAFFIC SIGN
		SOIL BOUNDARY
		SOIL LABEL

GENERAL NOTES:

- APPLICANT: CHAPEL HILL COOPERATIVE PRESCHOOL, 106 PUREFOY ROAD, CHAPEL HILL, NORTH CAROLINA 27514. RESPONSIBLE OFFICER: MARIA DICKINSON.
- EXISTING TOPOGRAPHIC FEATURES WERE TAKEN FROM A TOPOGRAPHIC SURVEY PLAN PROVIDED BY PHILIP POST & ASSOC. DATED: 6/14/2016.
- UTILITY NOTES:
 - COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.
 - LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND SHALL BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES ARE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
- AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR ORANGE COUNTY, NC, MAP #43710870 (PART 977J), EFFECTIVE DATE 8/20/07, THE SITE AREA PROPOSED TO BE DEVELOPED LIES WITHIN "ZONE X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.
- FIRE WATCH: 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 A WRITTEN ADDRESS POSTED IN A CONSPICUOUS LOCATION AND SHALL MAINTAIN CONSTANT PATROLS. NC FPC 2012 SECTION 1404.
- CONSTRUCTION / DEMOLITION: ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE OF THE CURRENT EDITION OF CHAPTER 14 OF THE NC FPC.
- PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY APPLICANT SHALL REPLACE ANY TREES SHOWN AS PRESERVED-PROTECTED ON THE LANDSCAPE PROTECTION PLAN THAT HAVE DIED OR ARE IN POOR HEALTH AS A RESULT OF LAND DISTURBING ACTIVITIES.
- PRIOR TO ISSUANCE OF A ZONING COMPLIANCE PERMIT APPLICANT SHALL RECORD A RECOMBINATION PLAN FOR THE FOUR PROPERTIES WITH THE ORANGE COUNTY REGISTRY. AN EXEMPT PLAN APPLICATION TO BE REVIEWED AND APPROVED BY THE TOWN IS REQUIRED FOR THIS ACTION.
- SITE LAND DISTURBANCE CALCULATIONS
 - OVERALL LAND DISTURBANCE
 - SITE LAND DISTURBANCE: 118 SQ.FT.
 - OFF-SITE LAND DISTURBANCE: 2,228 SQ.FT.
 - TOTAL LAND DISTURBANCE (LOD): 41,346 SQ.FT.
- PHASE 1 (ONE) LAND DISTURBANCE = 4,888 SQ.FT. (0.11 AC.)

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		SANITARY SEWER, CLEAN-OUT
		SANITARY SEWER, FORCE MAIN
		SANITARY SEWER, FORCE MAIN MANHOLE
		SANITARY SEWER, FORCE STUB OUT
		SANITARY SEWER, LATERAL
		SANITARY SEWER, MANHOLE
		SANITARY SEWER, UNDERGROUND (4" DIA TO 10" DIA)
		SANITARY SEWER, SEPTIC TANK
		SANITARY SEWER, STUB OUT
		SANITARY SEWER, VALVE
		SANITARY SEWER, WITNESS POST
		STREAM
		STORM SEWER, INLET
		STORM SEWER, HEADWALL
		STORM SEWER, MANHOLE
		STORM SEWER, UNDERGROUND
		STORM SEWER, DOWNSPOUT LOCATION
		STORM SEWER, ROOF DRAIN LINE
		STORM SEWER, STAND PIPE
		STORM SEWER, CLEAN-OUT
		STORM SEWER, WITNESS POST
		MINOR CONTOUR
		MAJOR CONTOUR
		SPOT ELEVATION
		TO BE REMOVED
		TRAFFIC, PAVEMENT MARKING, BIKE LANE
		TRAFFIC, PAVEMENT MARKING, TURN ARROWS
		TRAFFIC, PAVEMENT MARKING, HOV LANE
		TRAFFIC, HAND HOLE
		TRAFFIC, JUNCTION BOX
		TRAFFIC, MANHOLE
		TRAFFIC, PANEL BOX
		TRAFFIC, PEDESTAL
		TRAFFIC, PEDESTRIAN SIGNAL
		TRAFFIC, SIGNAL POLE
		TRAFFIC, SIGNAL POLE & LIGHT ARM
		TRAFFIC, STUB OUT
		VEGETATION, SHRUB
		VEGETATION, GRASS LINE / LANDSCAPED AREA
		VEGETATION, DECIDUOUS SHOWING CANOPY
		VEGETATION, CONIFEROUS SHOWING CANOPY
		VEGETATION, TREE LINE
		WATER, HOSE BIB
		WATER, FIRE HYDRANT
		WATER, IRRIGATION HEAD
		WATER, IRRIGATION VALVE BOX
		WATER, MANHOLE
		WATER, METER
		WATER, POST INDICATOR VALVE
		WATER, SIAMESE CONNECTION
		WATER, STUB OUT
		WATER, UNDERGROUND
		WATER, UNDERGROUND FIRE
		WATER, VALVE
		WATER, WITNESS POST

GENERAL CONSTRUCTION AND GRADING NOTES:

- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES AND OSHA STANDARDS. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- THE CONTRACTOR SHALL BE REQUIRED TO REVIEW AND ABIDE BY SPECIFICATIONS OF THE PLAN AND ALL SUPPORTING DOCUMENTS, PERMITS, AND REPORTS FOR THIS SITE, INCLUDING BUT NOT LIMITED TO:
 - EROSION AND SEDIMENTATION CONTROL PLAN
 - STORMWATER MANAGEMENT PLAN
- THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERROR THEY DISCOVER IN THE PLANS.
- DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE OF THE WORK TO BE UNACCEPTABLE.
- UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATIONS. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES. IF CONFLICTS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER FOR INSTRUCTION BEFORE PROCEEDING WITH WORK.
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER AND APPLICANT.
- TRAFFIC CONTROL METHODS, SUCH AS BARRICADES, SUFFICIENT LIGHTS, SIGNS, ETC., MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION IN ACCORDANCE WITH CURRENT AND NCDDT STANDARDS.
- CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, FENCING AND OTHER APPROPRIATE SAFETY ITEMS/MEASURES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA CONSTRUCTION ACTIVITIES.
- HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS NEAR CONSTRUCTION. IN TIME OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC., WITH A MINIMUM WIDTH OF 20 FEET. ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTOR. (NFPA 1141 3-1)
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONALLY BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROCKS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN COMPACTED FILL THICKNESS. A REPORT FROM A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE BUT NOT BE LIMITED TO: A) REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR B) REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PARAMETERS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SOIL TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPLETION OF ALL LOAD BEARING FILLS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND TO THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
- ALL PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- ALL PAVEMENT MARKINGS AND REGULATORY SIGNS ON PRIVATE PROPERTY SHALL CONFORM TO CURRENT MUTCD STANDARDS.

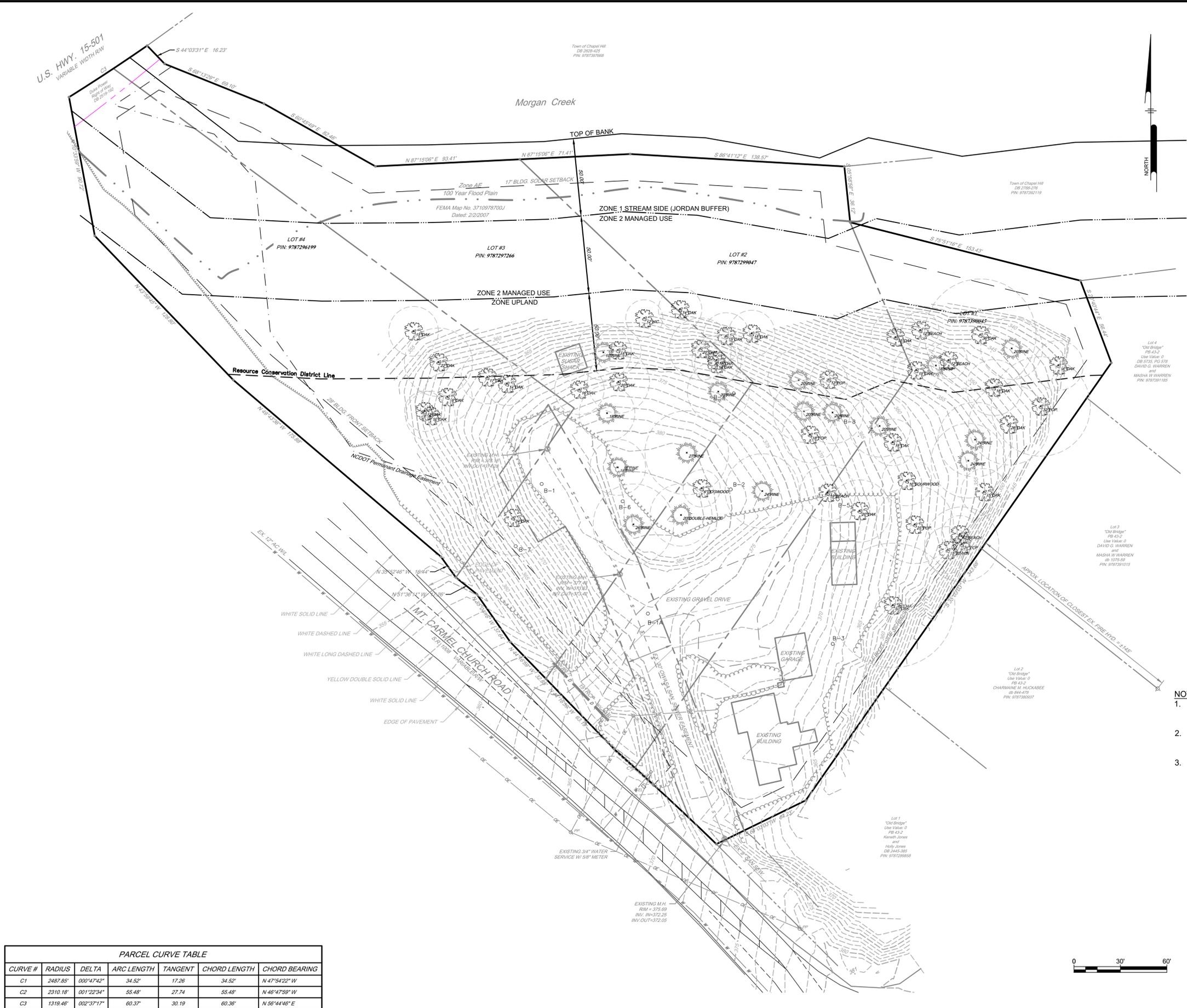
WATER AND SEWER SERVICE NOTES:

- HORIZONTAL AND VERTICAL SEPARATION
 - SANITARY SEWERS SHALL BE LAID AT LEAST 10-FOOT HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10-FOOT SEPARATION, THE PUBLIC WORKS SUPPLY MAY ALLOW DEVIATION A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW THE INSTALLATION OF THE SANITARY SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SANITARY SEWER AND AT AN ELEVATION 50 TO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER.
 - IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE OR ANYTIME THE SANITARY SEWER IS OVER THE WATER MAIN, BOTH THE WATER MAIN AND SANITARY SEWER MUST BE CONSTRUCTED OF FERROUS PIPE COMPLYING WITH THE PUBLIC WATER SUPPLY DESIGN STANDARDS AND BE PRESSURE TESTED TO 150PSI TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
 - A 24-INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR FERROUS PIPE SPECIFIED. A 12-INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND WATER MAIN.
 - IF A 12-INCH VERTICAL SEPARATION IS NOT MAINTAINED AT A CROSSING BETWEEN STORM SEWER AND WATER MAINS (OR PRESSURE SEWERS), THE WATER MAIN SHALL BE CONSTRUCTED OF FERROUS PIPE AND A CONCRETE COLLAR SHALL BE FOUDED AROUND WATER MAINS AND STORM SEWER TO IMMOBILIZE THE CROSSING.
- CROSSINGS
 - SANITARY SEWER CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18-INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SANITARY SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SANITARY SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
 - WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:
 - THE SANITARY SEWER SHALL BE DESIGNED AND CONSTRUCTED OF FERROUS PIPE AND SHALL BE PRESSURE TESTED AT 150-PSI TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING, OR
 - EITHER THE WATER MAIN OR THE SANITARY SEWER LINE MAY BE ENCASED IN A WATER TIGHT CARRIER PIPE, WHICH EXTENDS 10-FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE PUBLIC WATER SUPPLY FOR USE IN WATER MAIN CONSTRUCTION.

GENERAL UTILITY NOTES:

- ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
- UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATIONS. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTENDED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR EXACT LOCATION AND PROTECTION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
- CONTRACTOR MUST APPLY FOR ALL UTILITY CONNECTION APPLICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTION FEES FOR CONSTRUCTION. REFER TO COVER SHEET FOR AVAILABLE UTILITY COMPANY LIST.
- CONTRACTOR MUST OBTAIN ANY REQUIRED UTILITY DETAILS FOR RECONNECTION OF EXISTING SERVICES. THE CONTRACTOR SHALL PROVIDE COPIES OF THE DETAILS OF EACH NEW SERVICE PER THE APPROPRIATE UTILITY COMPANY'S SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE TO CURBING, PAVING, AND COMPACTED SUB-GRADE.
- IF CONFLICTS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER FOR INSTRUCTION BEFORE PROCEEDING WITH WORK.
- ALL PIPE LENGTHS AND DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG A HORIZONTAL PLANE.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EX

P:\Projects\CS0201\CS0201.dwg, C:\Users\Chris.Randall\OneDrive\Desktop\CS0201_PUB\CS0201.dwg, PLOTTED: 06/20/2018 11:33 AM BY: Chris.Randall, PLOTSTYLE: Pennon NCS.dwg, PROJECT STATUS: ZONING COMPLIANCE PERMIT (ZCP) APPLICATION



PARCEL CURVE TABLE						
CURVE #	RADIUS	DELTA	ARC LENGTH	TANGENT	CHORD LENGTH	CHORD BEARING
C1	2487.85'	000°47'42"	34.52'	17.26	34.52'	N 47°54'22" W
C2	2310.18'	001°22'34"	55.48'	27.74	55.48'	N 46°47'59" W
C3	1318.46'	002°37'17"	60.37'	30.19	60.36'	N 58°44'46" E

- NOTES:**
- TOPOGRAPHIC INFORMATION SHOWN HEREON OBTAINED FROM PHILIP POST & ASSOC.
 - SUBJECT LOTS ARE LOCATED WITHIN THE WATERSHED PROTECTION DISTRICT.
 - SOUTHERN TOP OF MORGAN CREEK BANK OBTAINED IN THE FIELD BY PHILIP POST & ASSOC. ON 10/12/2016.

LEGEND

	EXISTING 2' CONTOURS
	EXISTING OVERHEAD UTILITY LINES
	EXISTING UNDERGROUND UTILITY LINES
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM SEWER
	EXISTING TREE LINE
	EXISTING CONIFER TREE AND CANOPY
	EXISTING DECIDUOUS TREE AND CANOPY
	100 YEAR FLOOD PLAIN LINE
	MANAGED USE ZONE



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Pennon
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PENNONI ASSOCIATES, INC.
401 Providence Road #200
Chapel Hill, NC 27514
T 919.929.1173 F 919.493.6548

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

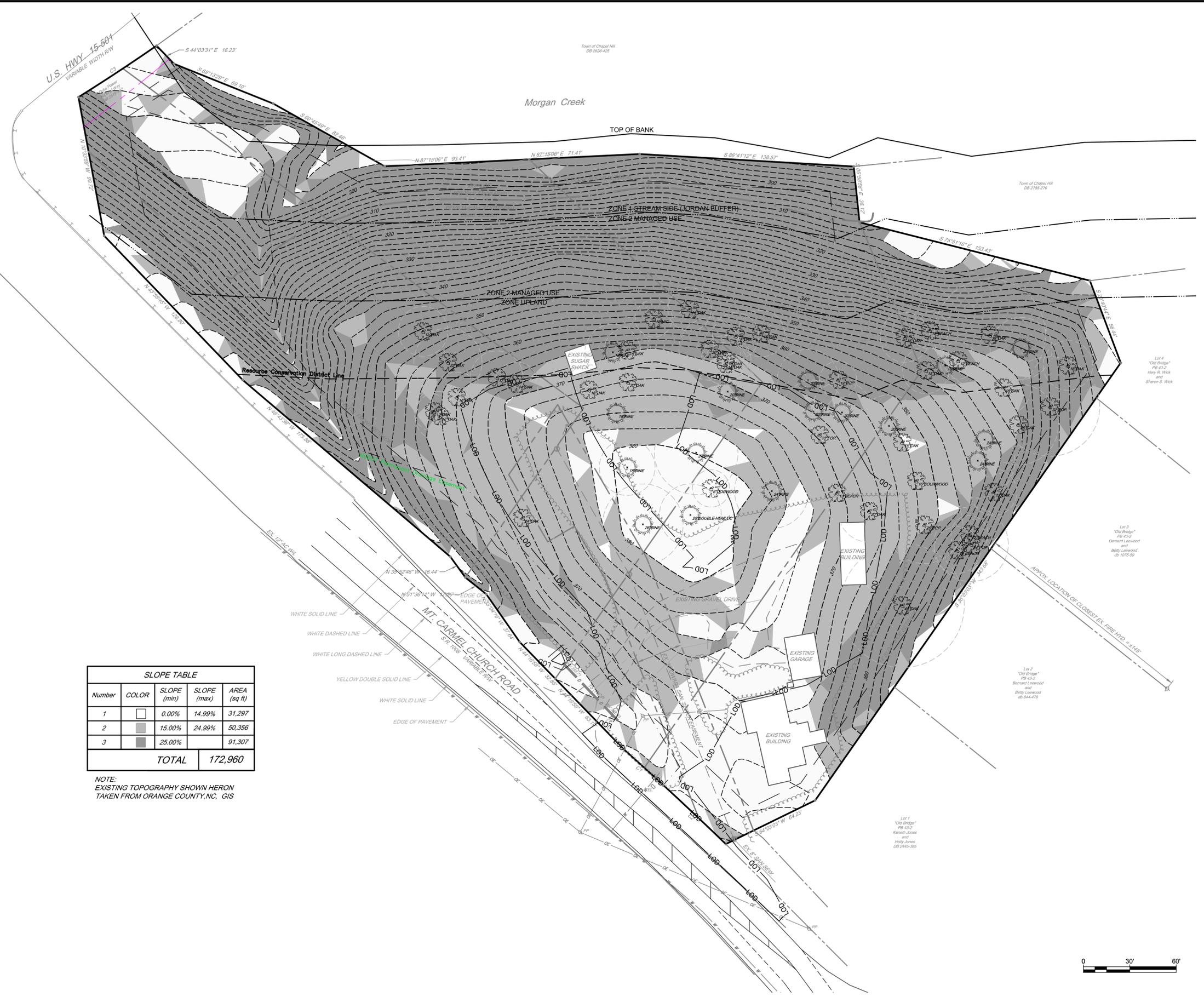
EXISTING CONDITIONS PLAN

CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CJJ

PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	1" = 30'
DRAWN BY	DC
APPROVED BY	PCB
CS0201	
SHEET	3 OF 10

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SLOPE TABLE				
Number	COLOR	SLOPE (min)	SLOPE (max)	AREA (sq ft)
1		0.00%	14.99%	31,297
2		15.00%	24.99%	50,356
3		25.00%		91,307
TOTAL				172,960

NOTE:
EXISTING TOPOGRAPHY SHOWN HERON
TAKEN FROM ORANGE COUNTY, NC, GIS



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CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

SLOPE ANALYSIS PLAN

CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

DATE	NO.	REVISIONS	BY
9/19/18	1	Revised Per Town's Comments 8/14/18	CJL

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PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	1" = 30'
DRAWN BY	DC
APPROVED BY	PCB
CS0202	
SHEET	4 OF 10

U.S. HWY 15-501
VARIABLE WIDTH RW

Morgan Creek

Town of Chapel Hill
DB 2028-025
PIN: 978750119



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Chapel Hill, NC 27514
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CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

DEMOLITION PLAN
CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CJJ

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PROJECT: **CHCP1601**
DATE: 2018-07-25
DRAWING SCALE: 1" = 30'
DRAWN BY: DC
APPROVED BY: PCB

CS0501
SHEET 5 OF 10

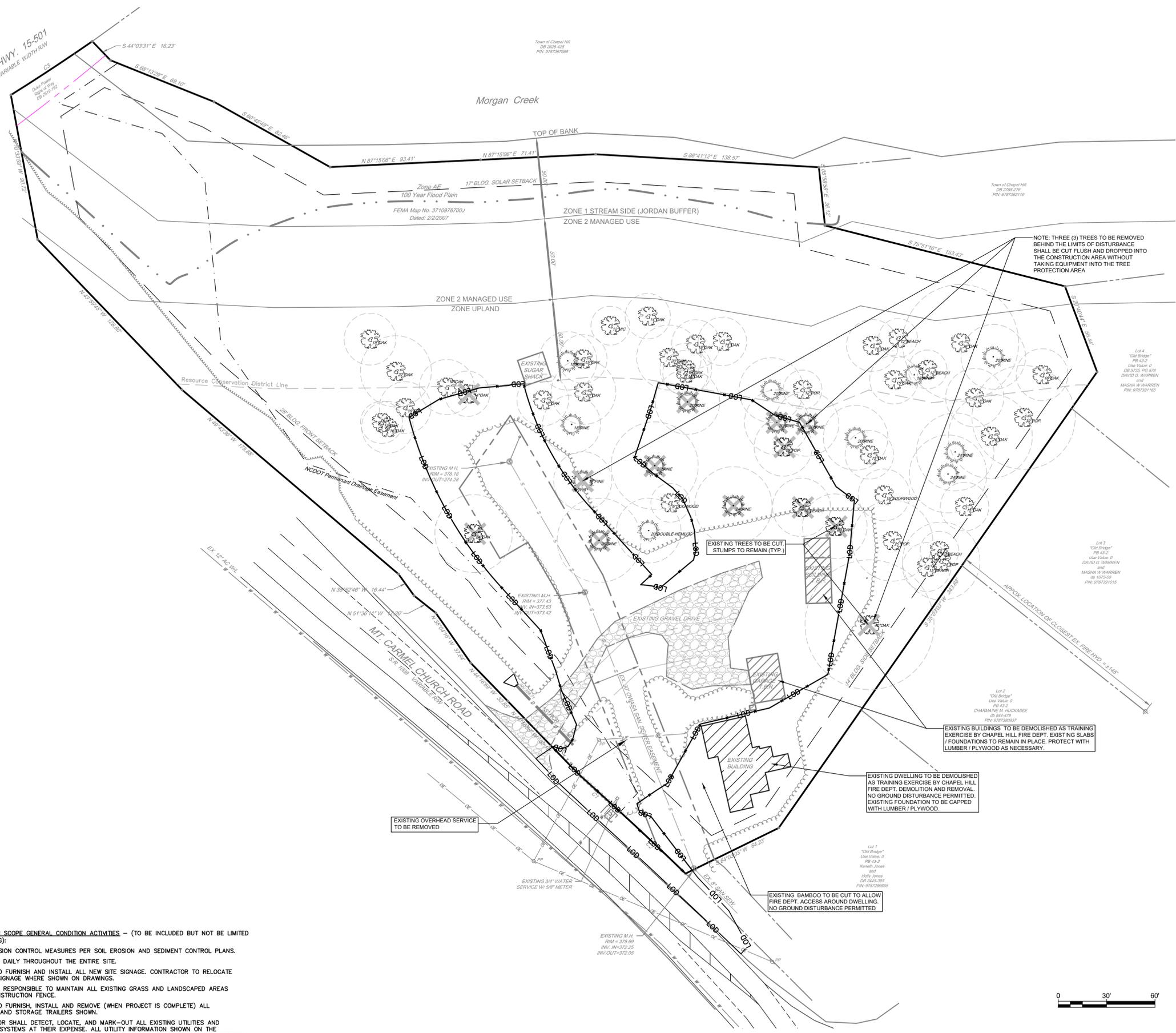
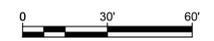
- CONTRACTOR MISC SCOPE GENERAL CONDITION ACTIVITIES - (TO BE INCLUDED BUT NOT BE LIMITED TO THE FOLLOWING):**
- 1) ESTABLISH EROSION CONTROL MEASURES PER SOIL EROSION AND SEDIMENT CONTROL PLANS.
 - 2) PICK UP TRASH DAILY THROUGHOUT THE ENTIRE SITE.
 - 3) CONTRACTOR TO FURNISH AND INSTALL ALL NEW SITE SIGNAGE. CONTRACTOR TO RELOCATE EXISTING SITE SIGNAGE WHERE SHOWN ON DRAWINGS.
 - 4) CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EXISTING GRASS AND LANDSCAPED AREAS INSIDE THE CONSTRUCTION FENCE.
 - 5) CONTRACTOR TO FURNISH, INSTALL AND REMOVE (WHEN PROJECT IS COMPLETE) ALL CONSTRUCTION AND STORAGE TRAILERS SHOWN.
 - 6) THE CONTRACTOR SHALL DETECT, LOCATE, AND MARK-OUT ALL EXISTING UTILITIES AND UNDERGROUND SYSTEMS AT THEIR EXPENSE. ALL UTILITY INFORMATION SHOWN ON THE CONTRACT DOCUMENTS IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE USED OR CONSIDERED EXACT. THE CONTRACTOR IS REQUIRED TO VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES TO BE CONNECTED TO OR DISCONNECTED.
 - 7) CONTRACTOR SHALL POST A CONSTRUCTION SIGN WITH THE FOLLOWING INFORMATION: OWNER'S REPRESENTATIVE AND NUMBER, CONTRACTOR'S REPRESENTATIVE AND NUMBER, AND REGULATORY INFORMATION

PHASE 1 NOTES

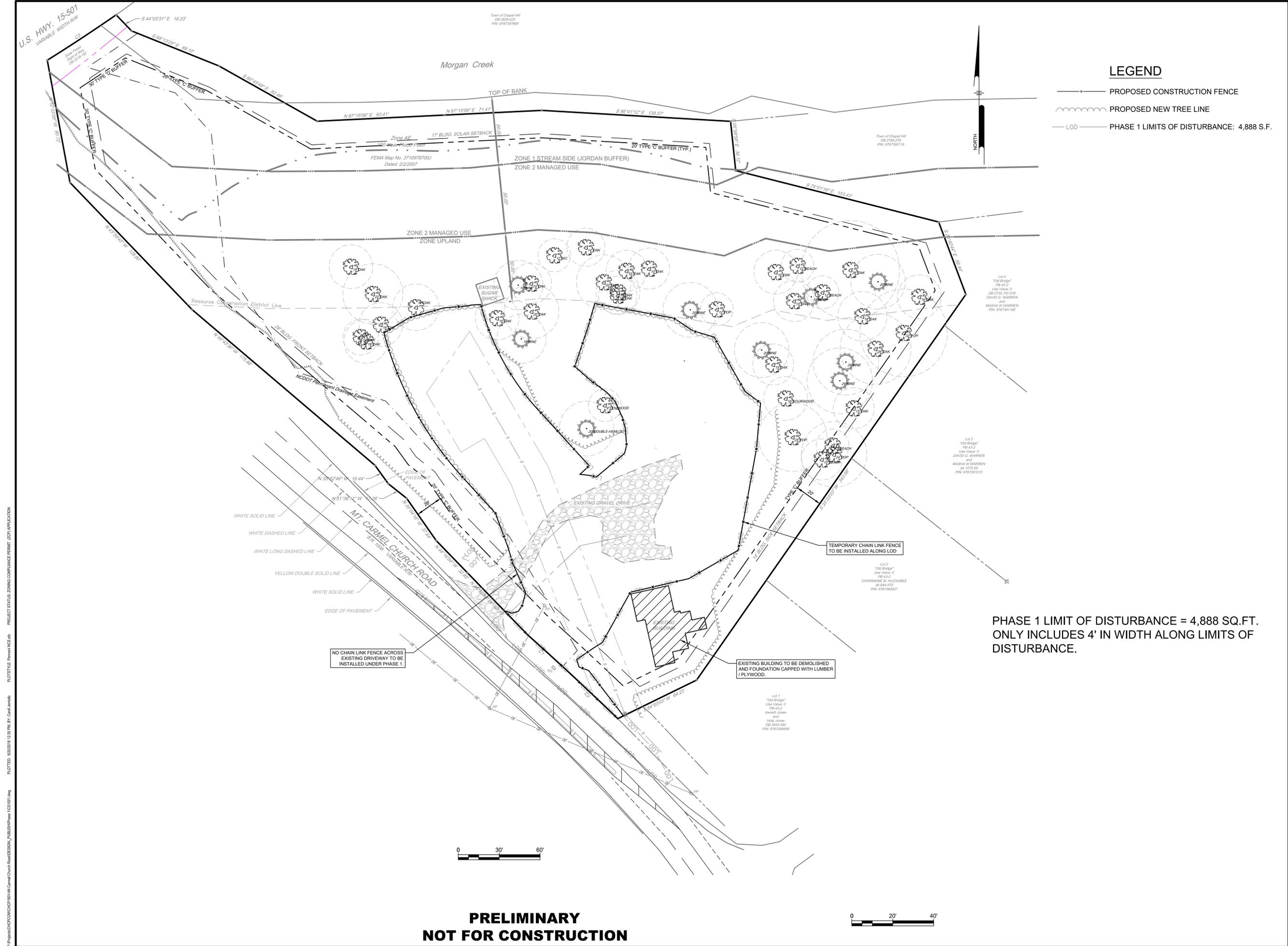
1. DISCONNECT ALL UTILITY SERVICE TO EXISTING STRUCTURES TO BE REMOVED. DO NOT DISTURB GROUND TO REMOVE UNDERGROUND UTILITIES WITH PHASE 1.

LEGEND

- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING CONIFER TREE TO BE REMOVED
- LINE OF DISTURBANCE
- ITEMS TO BE REMOVED
- EXISTING 2' CONTOURS



P:\Projects\CHCP1601\CHCP1601.dwg, 9/19/18, 11:24 AM, BY: Chad Amadio, PLOTTED: 9/20/18 11:24 AM, BY: Chad Amadio, PROJECT STATUS: ZONING COMPLIANCE REVIEW (ZCP) APPLICATION, PLOTSTYLE: Pennon VCS.dwg



LEGEND

— X — PROPOSED CONSTRUCTION FENCE

— () — PROPOSED NEW TREE LINE

— LOD — PHASE 1 LIMITS OF DISTURBANCE: 4,888 S.F.

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PENNONI ASSOCIATES, INC.
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

PROFESSIONAL ENGINEER
PETER C. BROWN
033040
10/14/18

CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

SITE PLAN

CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CJJ

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PROJECT: **CHCP1601**
DATE: 2018-07-25
DRAWING SCALE: 1" = 30'
DRAWN BY: DC
APPROVED BY: PCB

CS1001
SHEET 6 OF 10

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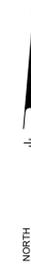
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 PLOTTED: 9/20/18 11:35 AM BY: Carol Amadio
 PLOTSTYLE: Pennon VCS.ctb
 PROJECT STATUS: ZONING COMPLIANCE PERMIT (ZCP) APPLICATION

U.S. HWY 15-50
VARIABLE WIDTH RW

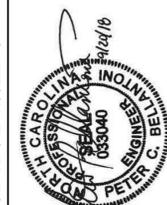
Morgan Creek

Town of Chapel Hill
08 2028-425
PIN: 9787289585

Town of Chapel Hill
08 2758-219
PIN: 9787252119



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PENNONI ASSOCIATES, INC.
401 Providence Road #200
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CHAPEL HILL COOPERATIVE PRESCHOOL
108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

CONSTRUCTION MANAGEMENT
PLAN

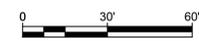
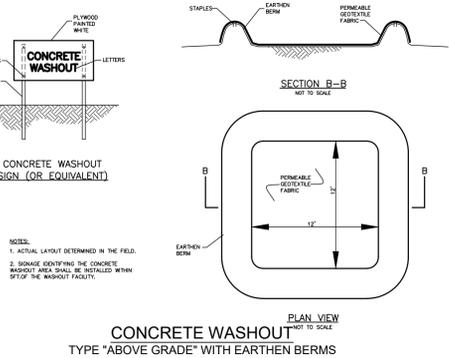
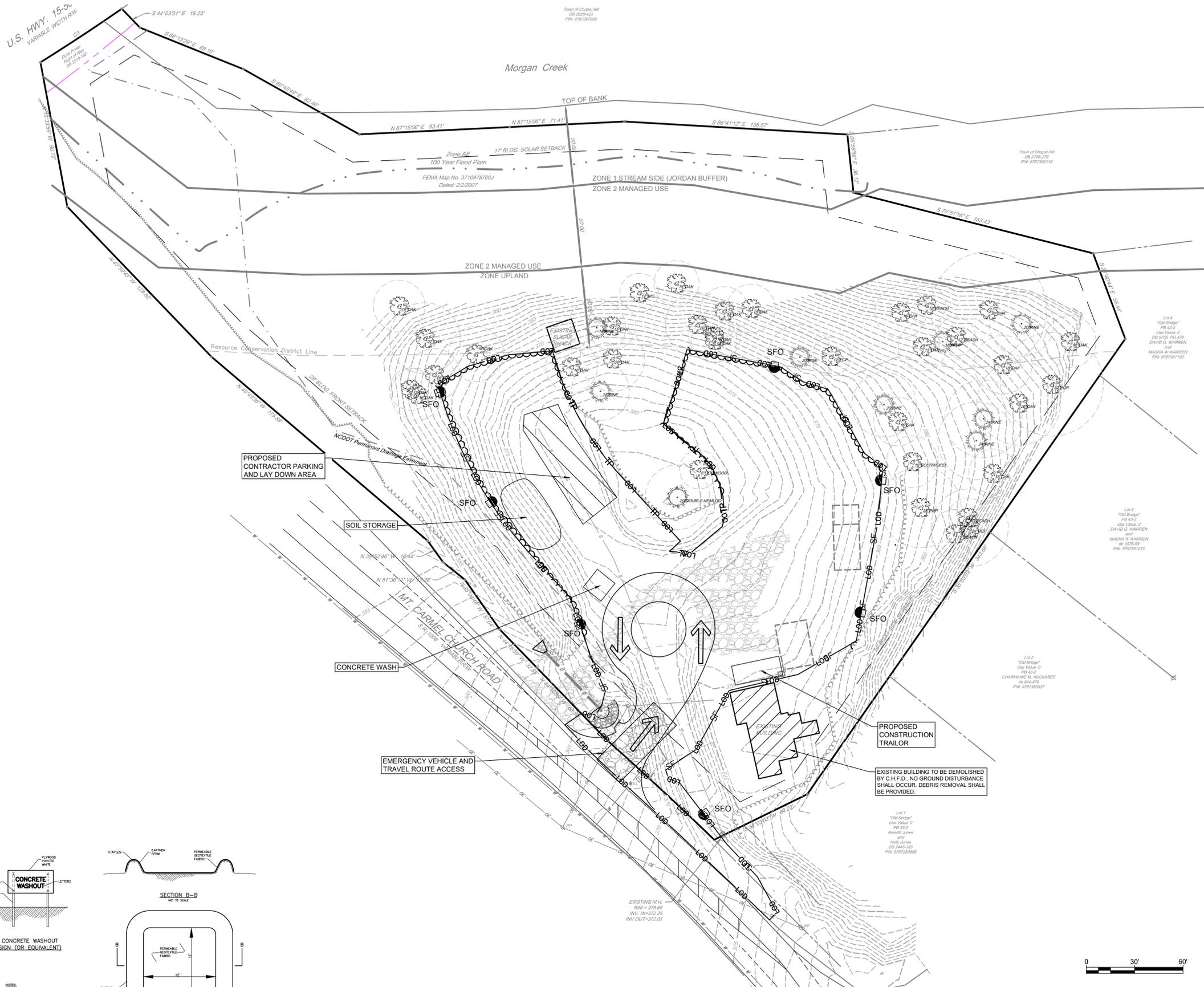
CHAPEL HILL COOPERATIVE PRESCHOOL
106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CJJ

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PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	1" = 30'
DRAWN BY	DC
APPROVED BY	PCB

CS8001
SHEET 7 OF 10



**PRELIMINARY
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NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2019)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

NOTES:

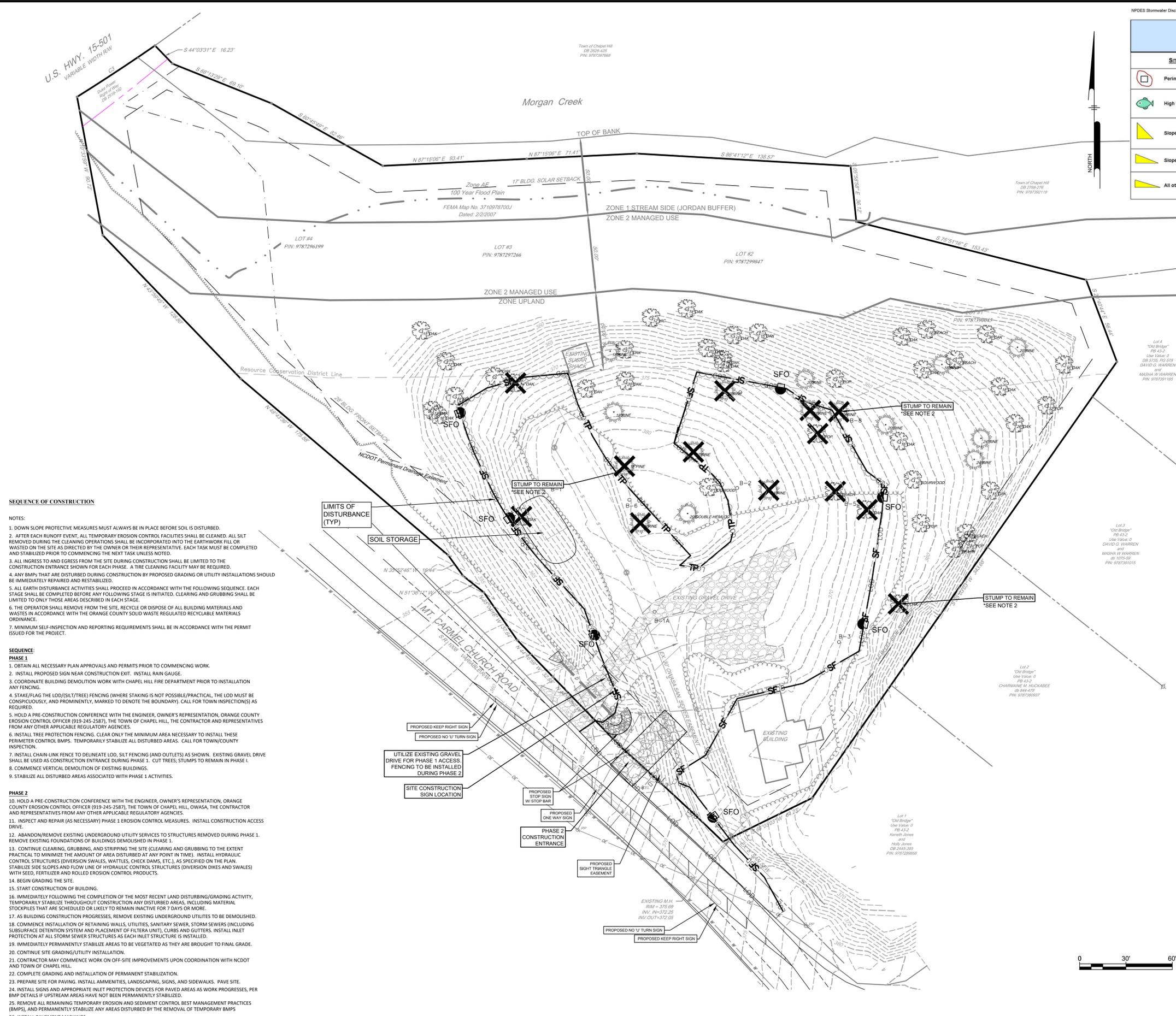
- TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO INSTALLATION OF CHAINLINK FENCE (LOD) AND SILT FENCE.
- THREE (3) TREES TO BE REMOVED BEHIND THE LIMITS OF DISTURBANCE SHALL BE CUT FLUSH AND DROPPED INTO THE CONSTRUCTION AREA WITHOUT TAKING EQUIPMENT INTO THE TREE PROTECTION AREA.

PROJECT DATA:

PHASE ONE AREA OF DISTURBANCE = 4,888 SF
 PHASE 2 (SITE AREA OF DISTURBANCE = 39,118 SF
 (WHICH INCLUDES PRIOR PHASE 1 AREA)
 PHASE 2 (OFF SITE AREA OF DISTURBANCE = 2,228 SF
 TOTAL AREA OF DISTURBANCE = 41,346 SF

LEGEND

- CONSTRUCTION ENTRANCE
- SILT FENCE
- TREE PROTECTION FENCE
- INLET PROTECTION
- EXISTING PIPE INLET PROTECTION
- SILT FENCE OUTLET
- LIMITS OF DISTURBANCE



SEQUENCE OF CONSTRUCTION

- NOTES:
- DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED.
 - AFTER EACH RUNOFF EVENT, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED DURING THE CLEANING OPERATIONS SHALL BE INCORPORATED INTO THE EARTHWORK FILL OR WASTED ON THE SITE AS DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE. EACH TASK MUST BE COMPLETED AND STABILIZED PRIOR TO COMMENCING THE NEXT TASK UNLESS NOTED.
 - ALL INGRESS TO AND EGRESS FROM THE SITE DURING CONSTRUCTION SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE SHOWN FOR EACH PHASE. A TIRE CLEANING FACILITY MAY BE REQUIRED.
 - ANY BMPs THAT ARE DISTURBED DURING CONSTRUCTION BY PROPOSED GRADING OR UTILITY INSTALLATIONS SHOULD BE IMMEDIATELY REPAIRED AND RESTABILIZED.
 - ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
 - THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE ORANGE COUNTY SOLID WASTE REGULATED RECYCLABLE MATERIALS ORDINANCE.
 - MINIMUM SELF-INSPECTION AND REPORTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PERMIT ISSUED FOR THE PROJECT.

- PHASE 1
- OBTAIN ALL NECESSARY PLAN APPROVALS AND PERMITS PRIOR TO COMMENCING WORK.
 - INSTALL PROPOSED SIGN NEAR CONSTRUCTION EXIT. INSTALL RAIN GAUGE.
 - COORDINATE BUILDING DEMOLITION WORK WITH CHAPEL HILL FIRE DEPARTMENT PRIOR TO INSTALLATION ANY FENCING.
 - STAKE/FLAG THE LOD/SILT/TREE FENCING (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY AND PROMINENTLY MARKED TO DENOTE THE BOUNDARY). CALL FOR TOWN INSPECTIONS AS REQUIRED.
 - HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, OWNER'S REPRESENTATION, ORANGE COUNTY EROSION CONTROL OFFICER (919-245-2387), THE TOWN OF CHAPEL HILL, THE CONTRACTOR AND REPRESENTATIVES FROM ANY OTHER APPLICABLE REGULATORY AGENCIES.
 - INSTALL TREE PROTECTION FENCING. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs. TEMPORARILY STABILIZE ALL DISTURBED AREAS. CALL FOR TOWN/COUNTY INSPECTION.
 - INSTALL CHAIN-LINK FENCE TO DELINEATE LOD, SILT FENCING (AND OUTLETS) AS SHOWN. EXISTING GRAVEL DRIVE SHALL BE USED AS CONSTRUCTION ENTRANCE DURING PHASE 1. CUT TREES; STUMPS TO REMAIN IN PHASE 1.
 - COMMENCE VERTICAL DEMOLITION OF EXISTING BUILDINGS.
 - STABILIZE ALL DISTURBED AREAS ASSOCIATED WITH PHASE 1 ACTIVITIES.

- PHASE 2
- HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, OWNER'S REPRESENTATION, ORANGE COUNTY EROSION CONTROL OFFICER (919-245-2387), THE TOWN OF CHAPEL HILL, OWASA, THE CONTRACTOR AND REPRESENTATIVES FROM ANY OTHER APPLICABLE REGULATORY AGENCIES.
 - INSPECT AND REPAIR (AS NECESSARY) PHASE 1 EROSION CONTROL MEASURES. INSTALL CONSTRUCTION ACCESS DRIVE.
 - ABANDON/REMOVE EXISTING UNDERGROUND UTILITY SERVICES TO STRUCTURES REMOVED DURING PHASE 1. REMOVE EXISTING FOUNDATIONS OF BUILDINGS DEMOLISHED IN PHASE 1.
 - CONTINUE CLEARING, GRUBBING, AND STRIPPING THE SITE (CLEARING AND GRUBBING TO THE EXTENT PRACTICAL TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY POINT IN TIME). INSTALL HYDRAULIC CONTROL STRUCTURES (DIVERSION SWALES, WATTLES, CHECK DAMS, ETC.), AS SPECIFIED ON THE PLAN. STABILIZE SIDE SLOPES AND FLOW LINE OF HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES AND SWALES) WITH SEED, FERTILIZER AND ROLLED EROSION CONTROL PRODUCTS.
 - BEGIN GRADING THE SITE.
 - START CONSTRUCTION OF BUILDING.
 - IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, TEMPORARILY STABILIZE THROUGHOUT CONSTRUCTION ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE.
 - AS BUILDING CONSTRUCTION PROGRESSES, REMOVE EXISTING UNDERGROUND UTILITIES TO BE DEMOLISHED.
 - COMMENCE INSTALLATION OF RETAINING WALLS, UTILITIES, SANITARY SEWER, STORM SEWERS (INCLUDING SUBSURFACE DETENTION SYSTEM AND PLACEMENT OF FILTER UNIT), CURBS AND GUTTERS. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
 - IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
 - CONTINUE SITE GRADING/UTILITY INSTALLATION.
 - CONTRACTOR MAY COMMENCE WORK ON OFF-SITE IMPROVEMENTS UPON COORDINATION WITH NCDOT AND TOWN OF CHAPEL HILL.
 - COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION.
 - PREPARE SITE FOR PAVING. INSTALL AMMNITIES, LANDSCAPING, SIGNS, AND SIDEWALKS. PAVE SITE.
 - INSTALL SIGNS AND APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES, PER BMP DETAILS IF UPSTREAM AREAS HAVE NOT BEEN PERMANENTLY STABILIZED.
 - REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), AND PERMANENTLY STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPs
 - INSTALL PAVEMENT MARKINGS.

LIMITS OF DISTURBANCE (TYP)
 SOIL STORAGE

PROPOSED KEEP RIGHT SIGN
 PROPOSED NO U-TURN SIGN
 UTILIZE EXISTING GRAVEL DRIVE FOR PHASE 1 ACCESS. FENCING TO BE INSTALLED DURING PHASE 2
 SITE CONSTRUCTION SIGN LOCATION

PROPOSED STOP SIGN W/ STOP BAR
 PROPOSED ONE WAY SIGN
 PHASE 2 CONSTRUCTION ENTRANCE

PROPOSED SIGHT TRIANGLE EASEMENT
 PROPOSED NO U-TURN SIGN
 PROPOSED KEEP RIGHT SIGN

EXISTING M.H.
 RIM = 375.69
 INV. = 372.25
 INV. OUT = 372.05



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Pennoni
 Firm License F-1267
PENNONI ASSOCIATES INC.
 401 Providence Road #200
 Chapel Hill, NC 27514
 T 919.929.1173 F 919.933.6548

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

CHAPEL HILL COOPERATIVE PRESCHOOL
 108 MT. CARMEL CHURCH ROAD
 CHAPEL HILL, NC 27514

EROSION CONTROL PLAN

CHAPEL HILL COOPERATIVE PRESCHOOL
 106 PUREFOY ROAD
 CHAPEL HILL, NC, 27514

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CLJ

PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	1" = 30'
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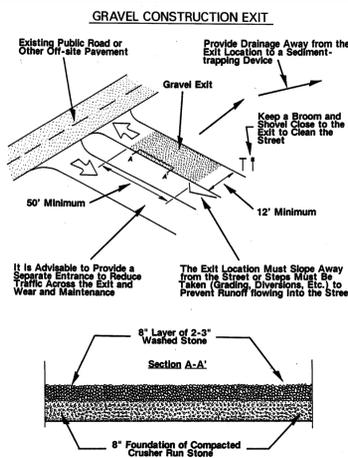


Figure 2: Illustration of a Gravel Construction Exit.

GRAVEL CONSTRUCTION EXIT

EXISTING PUBLIC ROAD OR OTHER ON-SITE PAVEMENT

PROVIDE DRAINAGE AWAY FROM THE EXIT LOCATION TO A SEDIMENT-TRAPPING DEVICE

GRAVEL EXIT

KEEP A BROOM AND SHOVEL CLOSE TO THE STREET

50' MINIMUM

12' MINIMUM

IT IS ADVISABLE TO PROVIDE A SEDIMENT TRAPPING DEVICE TO PREVENT RUNOFF FROM THE EXIT AND MAINTENANCE

THE EXIT LOCATION MUST SLOPE AWAY FROM THE STREET OR ROADWAY. TAKE CARE (GRADING, DIVERSIONS, ETC.) TO PREVENT RUNOFF FROM THE STREET

8" LAYER OF 2-3" WASHED STONE

SECTION A-A'

6" FOUNDATION OF COMPACTED CRUSHER RUN STONE

INSTRUCTIONS FOR GRAVEL CONSTRUCTION EXIT

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND PHOTOGRAPHS OF PROPERLY INSTALLED EXITS AS AN AID TO INSTALLATION.
- IF THE CONSTRUCTION EXIT IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND, TAKING INTO CONSIDERATION:
 - THE CONSTRUCTION EXIT MUST BE IN PLACE DURING ALL PHASES OF CONSTRUCTION; IF THE LOCATION IS TO BE GRADED, THE EXIT MUST BE INSTALLED FOR THE INITIAL WORK, REMOVED TO ALLOW GRADING, AND REINSTALLED IMMEDIATELY AFTER GRADING IS SO THAT IT IS IN PLACE AND FUNCTIONING AT ALL TIMES.
 - IF THE SITE WILL HAVE A LARGE NUMBER OF VEHICLES USING THE EXIT, IT IS ADVISABLE TO HAVE A DIVIDED ENTRANCE THAT DIRECTS TRAFFIC THROUGH A SEPARATE TRAVELWAY PARALLEL TO THE GRAVEL CONSTRUCTION EXIT IN ORDER TO REDUCE THE NUMBER OF TRIPS OVER THE STONE, INCREASING THE LIFE OF THE GRAVEL, AND REDUCING MAINTENANCE. REFER TO THE ILLUSTRATION FOR DETAILS.
 - RUNOFF AND SEDIMENT FROM THE SITE MUST BE DIRECTED AWAY FROM THE EXIT SO THAT IT DOES NOT FLOW FROM THE STREET OR OTHER OFF-SITE AREA; CHOOSE A LOCATION FOR THE EXIT THAT WILL MAKE IT EASY TO CONVERT THE RUNOFF TO SEDIMENT-TRAPPING DEVICES.
 - IF THE GRAVEL CONSTRUCTION EXIT DOES NOT FUNCTION TO KEEP MUD AND DUST ON-SITE, THEN AN SOIL OR DEBRIS TRAP SHOULD BE INSTALLED TO PREVENT MUD AND DUST FROM THE STREET OR OTHER OFF-SITE AREA; CHOOSE A LOCATION FOR THE EXIT THAT WILL MAKE IT EASY TO CONVERT THE RUNOFF TO SEDIMENT-TRAPPING DEVICES.
 - IF THE PERSON RESPONSIBLE FOR THE DISTURBANCE FAILS TO TAKE NECESSARY PRECAUTIONS TO PREVENT MUD AND DUST FROM THE STREET OR OTHER OFF-SITE AREA, THE GRADING PERMIT SHOULD BE REVOKED AND A STOP WORK ORDER SHOULD BE ISSUED.
- CLEAR THE LOCATION OF THE EXIT, REMOVING STUMPS, ROOTS, AND OTHER VEGETATION IN ORDER TO PROVIDE A FIRM FOUNDATION SO THAT THE STONE IS NOT PRESSED INTO SOFT GROUND. CLEAR ENOUGH WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY WHAT IS NECESSARY FOR THE EXIT. DO NOT CLEAR AREAS UNTIL THE REQUIRED EROSION CONTROL DEVICES ARE IN PLACE.
- IF THE SOIL AT THE LOCATION IS SOFT IT IS ADVISABLE TO PLACE A 6 TO 8 INCH LAYER OF CRUSHER RUN STONE DOWN FIRST TO PROVIDE A FIRM FOUNDATION AND PREVENT THE WASHED STONE FROM BEING PRESSED INTO THE GROUND.
- AT THE LOCATION OF THE EXIT, PLACE AN 8-INCH LAYER OF WASHED STONE 2 TO 3 INCHES IN DIAMETER AND 1/2 TO 3/4 INCHES THICK AND AS WIDE AS THE FULL WIDTH OF THE EXIT OR AT LEAST 10 FEET WIDE. PLACE THE END OF THE STONE WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES REMAIN ON STONE AND DO NOT TRAVEL OVER UNPROTECTED SOIL.
- IF THE STONE IS NOT PRESSED INTO SOFT GROUND, CLEAR ENOUGH WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY WHAT IS NECESSARY FOR THE EXIT. DO NOT CLEAR AREAS UNTIL THE REQUIRED EROSION CONTROL DEVICES ARE IN PLACE.
- IF THE STONE IS NOT PRESSED INTO SOFT GROUND, CLEAR ENOUGH WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY WHAT IS NECESSARY FOR THE EXIT. DO NOT CLEAR AREAS UNTIL THE REQUIRED EROSION CONTROL DEVICES ARE IN PLACE.

VEGETATION

VEGETATION IS NOT AN APPROPRIATE STABILIZATION DURING THESE SEASONS. USE ANOTHER TYPE OF TEMPORARY GROUND COVER, SUCH AS MULCHING.

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

SEEDING RATES: FEBRUARY 15 - MAY, OR AUGUST 15 - OCTOBER 15: 1.5 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)

FERTILIZER: 10-10-10: 23 POUNDS PER 1000 SQUARE FEET (1000 POUNDS PER ACRE); A SPLIT APPLICATION OF 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER IS PREFERRED. USE 500 POUNDS PER ACRE SUPER PHOSPHATE WHERE THE SUBSOIL IS EXPOSED.

SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)

MULCH: 81 POUNDS PER 1000 SQUARE FEET (3.5 TONS PER ACRE) (APPROXIMATELY 2 BARNS PER ACRE, 1.5 TONS PER ACRE) (APPROXIMATELY 2 BARNS PER ACRE, 1.5 TONS PER ACRE)

TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

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TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

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TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

REMOVAL

- WHEN THE GRAVEL CONSTRUCTION EXIT IS NO LONGER NEEDED, WHEN THE TRAVELWAY HAS BEEN STABILIZED AND THE POTENTIAL FOR TRAPPING SOIL AND DEBRIS INTO THE STREET HAS BEEN REMOVED, THE GRAVEL CONSTRUCTION EXIT MAY BE REMOVED.
- THE STONE AND ANY SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF WHERE THEY WILL NOT CREATE AN EROSION HAZARD.

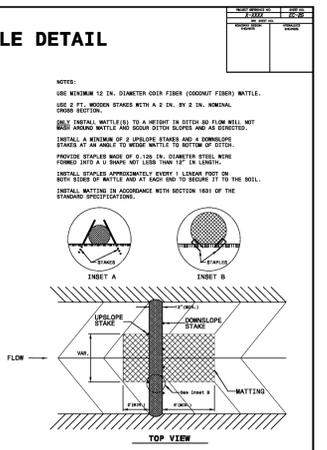


Figure 3: Illustration of a Coir Fiber Wattle Detail.

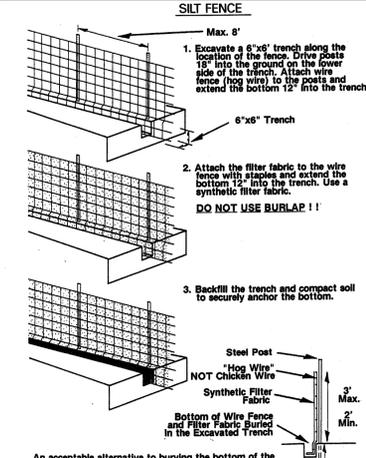


Figure 4: Illustration of a Silt Fence Installation.

SILT FENCE

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED SILT FENCES AS AN AID TO INSTALLATION.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE REPEATED.
- USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON.

ALL SEASONS:

LIME: 90 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)

FERTILIZER: 10-10-10: 14 POUNDS PER 1000 SQUARE FEET (700 POUNDS PER ACRE)

SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)

STRAW MULCH: 80 POUNDS PER 1000 SQUARE FEET (1.5 TO 2 TONS PER ACRE); USE ENOUGH STRAW TO COVER 75% OF THE GROUND.

MARCH - MAY

RYE GRASS: 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE)

OR SPRING OATS: 3 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE)

MAY - AUGUST

MILLET: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE)

OR SORGHUM HYBRIDS: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE)

AUGUST 15 - NOVEMBER 15

OATS: BEFORE OCTOBER 11: 2.5 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE)

OR WHEAT: AFTER OCTOBER 11: 3 POUNDS PER 1000 SQUARE FEET (180 POUNDS PER ACRE)

NOVEMBER 15 - FEBRUARY

VEGETATION IS NOT AN APPROPRIATE STABILIZATION DURING THESE SEASONS. USE ANOTHER TYPE OF TEMPORARY GROUND COVER, SUCH AS MULCHING.

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

SEEDING RATES: FEBRUARY 15 - MAY, OR AUGUST 15 - OCTOBER 15: 1.5 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)

FERTILIZER: 10-10-10: 23 POUNDS PER 1000 SQUARE FEET (1000 POUNDS PER ACRE); A SPLIT APPLICATION OF 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER IS PREFERRED. USE 500 POUNDS PER ACRE SUPER PHOSPHATE WHERE THE SUBSOIL IS EXPOSED.

SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)

MULCH: 81 POUNDS PER 1000 SQUARE FEET (3.5 TONS PER ACRE) (APPROXIMATELY 2 BARNS PER ACRE, 1.5 TONS PER ACRE) (APPROXIMATELY 2 BARNS PER ACRE, 1.5 TONS PER ACRE)

TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

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TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

INSTRUCTIONS FOR PERMANENT STABILIZATION USING VEGETATION

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED SILT FENCES AS AN AID TO INSTALLATION.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE REPEATED.
- USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.
- IF THE STONE AND ANY SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF WHERE THEY WILL NOT CREATE AN EROSION HAZARD.

ALL SEASONS:

LIME: 90 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)

FERTILIZER: 10-10-10: 14 POUNDS PER 1000 SQUARE FEET (700 POUNDS PER ACRE)

SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)

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OATS: BEFORE OCTOBER 11: 2.5 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE)

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NOVEMBER 15 - FEBRUARY

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SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

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TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SHOOTS APPLIED LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO COVER THE SEED. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

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TEMPORARY COVER: 0.5 POUNDS PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE SILT FENCE HAS BEEN FINISHED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE SILT FENCE AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, AND FABRIC; DISPOSE OF THEM PROPERLY.
- STABILIZE THE DISTURBED AREA WHERE THE FENCE WAS LOCATED.

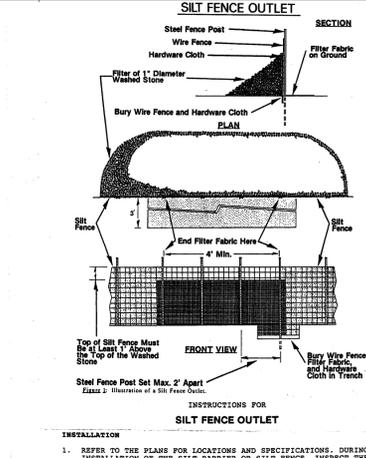


Figure 5: Illustration of a Silt Fence Outlet Installation.

SILT FENCE OUTLET

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. DURING INSTALLATION OF THE SILT FENCE, INSPECT THE SILT FENCE TO DETERMINE IF OUTLETS ARE NEEDED ACCORDING TO THE CRITERIA SET FORTH IN THE SPECIFICATIONS FOR THE BARRIER AND FENCE. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED SILT FENCES AS AN AID TO INSTALLATION.
- IF THE SILT FENCE OUTLET IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE EXACT LOCATION OF THE OUTLET BEFORE COMPLETING INSTALLATION OF THE SILT BARRIER OR SILT FENCE, TAKING INTO CONSIDERATION:
 - INSTALL THE OUTLET AT THE LOWEST POINT(S) IN THE BARRIER OR FENCE WHERE WATER WILL FLOW.
 - INSTALL THE OUTLET WHERE IT IS ACCESSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
 - ALLOW AT LEAST:
 - 15 FEET BETWEEN THE BARRIER OR FENCE AND SINGLE-STORY BUILDINGS.
 - 25 FEET FOR FORK LIFTS BETWEEN THE BARRIER OR FENCE AND MULTIPLE-STORY BUILDINGS.
 - 10 FEET BETWEEN THE BARRIER OR FENCE AND THE TOP OF FILL SLOPES.
 - PLACE THE OUTLET SO THAT WATER FLOWING THROUGH IT WILL NOT CREATE AN EROSION HAZARD BELOW AND UP STEEP SLOPES BELOW THE OUTLET AND AREAS WITHOUT PROTECTIVE VEGETATION. USE SLOPE GRADING IF NECESSARY.
 - DETERMINE THE LOCATION OF THE OUTLET; FOR A SILT BARRIER, WHEN THE TRENCH IS DOG TO BURY THE BOTTOM OF THE FENCE BECAUSE THE BARRIER WILL BE LIMITED AT THE OUTLET FOR A SILT FENCE, WHEN THE WIRE FENCE IS IN PLACE BECAUSE THE FILTER FABRIC WILL BE LIMITED AT THE OUTLET.
- CLEAR THE ILLUSTRATIONS OF THE OUTLET IN THE PLAN.
- CLEAR STUMPS AND ROOTS FROM THE LOCATION OF THE OUTLET. CLEAR ADEQUATE ACCESS FOR THE EQUIPMENT NEEDED FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
- FOR A SILT BARRIER:
 - JUST BELOW THE GAP IN THE BARRIER, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION BY OUTFLOW FROM THE OUTLET; PLACE 6 INCHES OF THE UPPER EDGE IN THE TRENCH. STAKE THE REMAINING EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE STEEL FENCE POSTS FOR STRENGTH. THE POSTS MUST BE A MAXIMUM OF 2 FEET APART AND DRIVEN INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPSIDE SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LANGRIS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH AND THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET IN THE TRENCH AND COMPACT THE FILL.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE BARRIER.
- FOR A SILT FENCE:
 - JUST BELOW THE GAP IN THE FENCE, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION BY OUTFLOW FROM THE OUTLET; PLACE 6 INCHES OF THE UPPER EDGE IN THE TRENCH. STAKE THE OTHER EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE ADDITIONAL STEEL FENCE POSTS FOR STRENGTH. THE POSTS MUST BE A MAXIMUM OF 2 FEET APART AND DRIVEN INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPSIDE SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LANGRIS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH, THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET, AND THE WIRE FENCE IN THE TRENCH AND COMPACT THE FILL.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE SILT FENCE.

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIMES.

- INSPECT THE SILT FENCE:
 - DURING CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE BARRIER, FENCE, OR OUTLET; IF DAMAGED, MAKE REPAIRS. TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE BARRIER, FENCE, OR OUTLET; IF ACCUMULATED, REMOVE THE MATERIAL, REPAIR THE DAMAGE, AND MOVE THE FENCE OR POST IF IT DOES NOT HAPPEN AGAIN.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE OUTLET HAS CAUSED DAMAGE BY UNDERMINING THE FENCE OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE OUTLET; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE FILTER FABRIC. PLACE THE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX IT WITH DRY SOIL ON THE SITE.
- IF THE SILT FENCE OUTLETS ARE USED, REMOVE AND REPLACE THE STONE FILTER WITH CLEAN, WASHED STONE WHEN THE FILTER BECOMES CLOGGED. DISPOSE OF ANY ACCUMULATED STONE PROPERLY.
- REPAIR ANY BREAKS OR ROTTEN PLACES IN THE FILTER FABRIC.
- IF THE FENCE IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING REPAIRS, ALWAYS RESTORE THE SILT FENCE TO ITS ORIGINAL DESIGN CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE SILT FENCE HAS BEEN FINISHED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE SILT FENCE AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, AND FABRIC; DISPOSE OF THEM PROPERLY.
- STABILIZE THE DISTURBED AREA WHERE THE OUTLET WAS LOCATED.

PRELIMINARY NOT FOR CONSTRUCTION

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED DIVERSION DIKES AS AN AID TO INSTALLATION.
- IF THE DIVERSION DIKE IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND TAKING INTO CONSIDERATION:
 - CONSIDER THE LOCATION OF THE SEDIMENT-TRAPPING DEVICES (SEDIMENT TRAP OR POND, WHEN LOCATING AND BUILDING THE DIVERSION DIKE. THE DIVERSION DIKE MUST BE INSTALLED UPSTREAM OF THE SEDIMENT-TRAPPING DEVICES. THE MAXIMUM GRADE IS 1%.
 - THE DIVERSION DIKE MUST HAVE POSITIVE DRAINAGE TO THE SEDIMENT-TRAPPING DEVICES. THE MAXIMUM GRADE IS 1%.
 - THE DIVERSION DIKE MUST BE SOLID THROUGHOUT. IT MAY BE NECESSARY TO REINFORCE THE DIKE WITH STONE OR OTHER MATERIAL. BACKFILL WITH GOOD MATERIAL. THIS IS NECESSARY SO THE STONE DOES NOT DISAPPEAR INTO THE HOLE, WHICH WOULD REQUIRE MUCH MORE STONE TO COMPLETE THE APRON AND MAKE INSTALLATION DIFFICULT.
 - CLEAR THE LOCATION FOR THE DIVERSION, CLEARING ONLY WHAT IS NECESSARY TO PROVIDE ACCESS TO PERSONNEL AND EQUIPMENT FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
 - CHECK THE BOTTOM OF THE CHANNEL TO INSURE POSITIVE DRAINAGE IN THE DESIRED DIRECTION.
- INSPECT THE DIVERSION DIKE:
 - BEFORE CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE DIKE; IF DAMAGED, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE DIKE HAS CAUSED DAMAGE BY UNDERMINING THE DIKE OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE DIKE; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE DIKE. PLACE THE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX IT WITH DRY SOIL ON THE SITE.
- IF THE DIKE IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING REPAIRS, ALWAYS RESTORE THE DIKE TO ITS ORIGINAL DESIGN CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE DIKE HAS BEEN FINISHED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE DIKE AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, AND FABRIC; DISPOSE OF THEM PROPERLY.
- STABILIZE THE DISTURBED AREA WHERE THE DIKE WAS LOCATED.

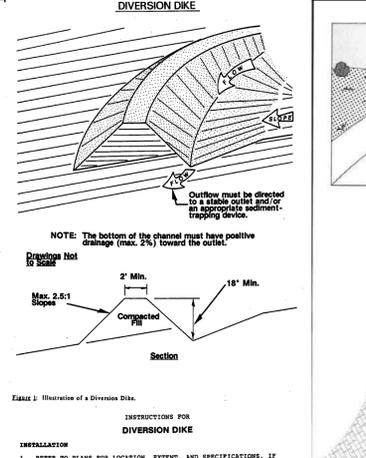


Figure 6: Illustration of a Diversion Dike.

DIVERSION DIKE

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED DIVERSION DIKES AS AN AID TO INSTALLATION.
- IF THE DIVERSION DIKE IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND TAKING INTO CONSIDERATION:
 - CONSIDER THE LOCATION OF THE SEDIMENT-TRAPPING DEVICES (SEDIMENT TRAP OR POND, WHEN LOCATING AND BUILDING THE DIVERSION DIKE. THE DIVERSION DIKE MUST BE INSTALLED UPSTREAM OF THE SEDIMENT-TRAPPING DEVICES. THE MAXIMUM GRADE IS 1%.
 - THE DIVERSION DIKE MUST HAVE POSITIVE DRAINAGE TO THE SEDIMENT-TRAPPING DEVICES. THE MAXIMUM GRADE IS 1%.
 - THE DIVERSION DIKE MUST BE SOLID THROUGHOUT. IT MAY BE NECESSARY TO REINFORCE THE DIKE WITH STONE OR OTHER MATERIAL. BACKFILL WITH GOOD MATERIAL. THIS IS NECESSARY SO THE STONE DOES NOT DISAPPEAR INTO THE HOLE, WHICH WOULD REQUIRE MUCH MORE STONE TO COMPLETE THE APRON AND MAKE INSTALLATION DIFFICULT.
 - CLEAR THE LOCATION FOR THE DIVERSION, CLEARING ONLY WHAT IS NECESSARY TO PROVIDE ACCESS TO PERSONNEL AND EQUIPMENT FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
 - CHECK THE BOTTOM OF THE CHANNEL TO INSURE POSITIVE DRAINAGE IN THE DESIRED DIRECTION.
- INSPECT THE DIVERSION DIKE:
 - BEFORE CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE DIKE; IF DAMAGED, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE DIKE.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE DIKE HAS CAUSED DAMAGE BY UNDERMINING THE DIKE OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE DIKE; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE DIKE. PLACE THE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX IT WITH DRY SOIL ON THE SITE.
- IF THE DIKE IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING REPAIRS, ALWAYS RESTORE THE DIKE TO ITS ORIGINAL DESIGN CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE DIKE HAS BEEN FINISHED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE DIKE AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, AND FABRIC; DISPOSE OF THEM PROPERLY.
- STABILIZE THE DISTURBED AREA WHERE THE DIKE WAS LOCATED.

STONE APRON OUTLET PROTECTION

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED APRONS AS AN AID TO INSTALLATION.
- IF THE STONE APRON IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND TAKING INTO CONSIDERATION:
 - BEFORE CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE APRON; IF DAMAGED, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE APRON; IF IT HAS, MAKE REPAIRS TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE APRON.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE APRON HAS CAUSED DAMAGE BY UNDERMINING THE APRON OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE APRON; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE APRON. PLACE THE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX IT WITH DRY SOIL ON THE SITE.
- IF THE APRON IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING REPAIRS, ALWAYS RESTORE THE APRON TO ITS ORIGINAL DESIGN CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE APRON HAS BEEN FINISHED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE APRON AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, AND FABRIC; DISPOSE OF THEM PROPERLY.
- STABILIZE THE DISTURBED AREA WHERE THE APRON WAS LOCATED.

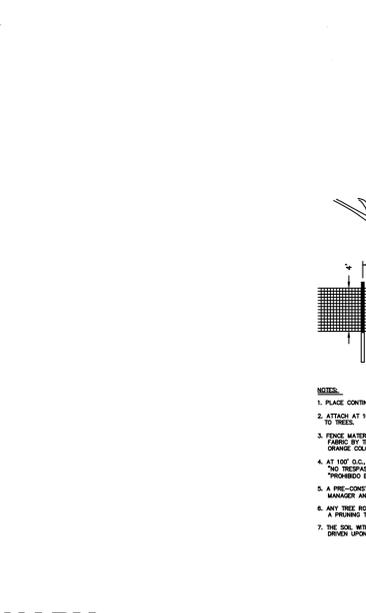


Figure 7: Illustration of a Tree Protection Fence.

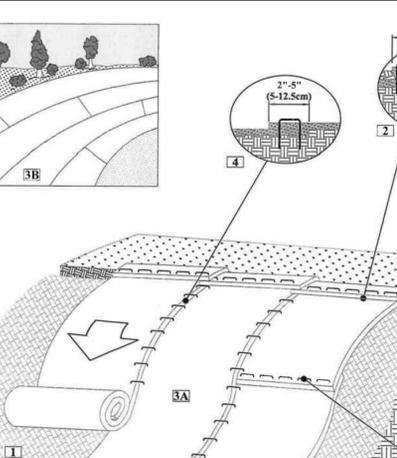


Figure 8: Illustration of a Slope Installation Detail.

SLOPE INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.

2. Begin at the top of the slope by anchoring the RECPs in a 6" (15cm) deep X 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Backfill and compact the trench after staging. Apply seed to the compacted soil and the remaining 12" (30cm) portion of RECPs back over the seed and compacted soil with a row of staples/staples spaced approximately 12" (30cm) apart across the width of the RECPs.

3. Roll the RECPs (A) down or (B) RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/staples in appropriate locations as shown in the staple pattern guide.

4. The edges of parallel RECPs must be stapled with approximately 2" x 5" (5-12.5cm) overlap depending on the RECPs type.

5. Consecutive RECPs should overlap down the slope with approximately 12" (30cm) overlap. Staple through overlapping areas, approximately 12" (30cm) apart across entire RECPs width.

NOTE: In loose soil conditions, the use of slope or stake lengths greater than 6" (15cm) may be necessary to properly secure

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NOTES:

- ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION, UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO. (NOTE: TOPSOIL STOCKPILING ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS.)
- ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. USE TEMPORARY SEEDING OR STABILIZATION DETAIL AS AN ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS.
- PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON.
- STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES.
- STOCKPILE LOCATIONS SHALL BE NOTED ON THE SITE MAPS.

STOCKPILES

NOTES:

- LARGE AREAS OF SOIL THAT ARE DENuded OF VEGETATION AND HAVE NO PROTECTION FROM PARTICLES BEING PICKED UP AND CARRIED BY WIND SHOULD BE PROTECTED WITH A TEMPORARY COVER OR KEPT UNDER CONTROL WITH WATER OR OTHER SOIL ADHERING PRODUCTS TO PREVENT SOIL PARTICLES FROM BECOMING AIRBORNE, AND FROM EXITING THE SITE PERIMETER.

WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATED ON THE SITE. TACKIFIERS MAY BE USED TO HOLD SOIL IN PLACE AND PREVENT DUST. MANUFACTURER RECOMMENDATIONS FOR APPLICATION LOCATIONS AND RATES MUST BE USED FOR DUST CONTROL APPLICATIONS.

- DUST CONTROL MUST BE PROVIDED BY THE GC TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE FEDERAL, LOCAL AND STATE DUST CONTROL REGULATIONS.
- THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- IN ADDITION TO BMPs, GC SHALL PERFORM PER PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING.

DUST CONTROL

NOTES:

- MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS. GC SHALL ADHERE TO ALL STATE AND LOCAL REGULATIONS PERTAINING TO MATERIAL STORAGE AREAS.
- CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY.

MATERIAL LAYDOWN AND STORAGE AREA

NOTES:

- CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
- DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALY AVAILABLE ABOVE GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND WATER BODIES. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL CONTAIN AND/OR ACTIVELY MANAGE BOTH, SOLID AND FLUID, COMPONENTS OF THE MIX. CONCRETE WASHOUT CONTAINERS MUST BE CLEANED OR EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 85% TO PREVENT ANY POTENTIAL OVERFLOW IN A STORM EVENT.
- ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS.

CEMENT AND CONCRETE WASHOUT

NOTES:

- SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY ANY MEANS NECESSARY TO ENSURE THAT THOSE DO NOT DISCHARGE FROM THE SITE. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHALL BE STORED AND HANDLED IN A MANNER CONSISTENT WITH THE RISK OF IMPACT THOSE REPRESENT, AND ACCORDING WITH THE REGULATIONS.
- NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTAINERS SHALL BE HAULED AWAY FROM THE SITE AND EMPTIED WHEN THOSE BECOME 85% FULL, OR AS NECESSARY, BY A CERTIFIED TRASH DISPOSAL SERVICE. LIDS OR COVERS FOR THE CONTAINERS SHALL BE PROVIDED FOR USE DURING RAIN EVENTS TO PREVENT WASTE CONTACT WITH STORMWATER. WASTES THAT CANNOT BE STORED IN A CONTAINER MUST BE STORED UNDER COVER OR INDOORS. THE LOCATION OF SOLID WASTE RECEPTACLES SHALL BE SHOWN ON THE SITE MAPS.

SOLID WASTE DISPOSAL

NOTES:

- CONTRACTOR SHALL PROVIDE DESIGNATED LOCATION FOR SORTING AND SEPARATING HAZARDOUS WASTES.
- HAZARDOUS WASTE STORAGE MUST BE PROTECTED FROM WEATHER ELEMENTS AND HAVE RESTRICTED ACCESS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH CONTRACT DOCUMENTS.

HAZARDOUS WASTE DISPOSAL

NOTES:

- ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. PORTABLE TOILETS MUST BE LOCATED AT LEAST 30 FEET FROM INLETS, CHANNELS, SWALES, OR PERMITTED LIMITS OF DISTURBANCE, AND MUST BE LOCATED AT LEAST 50 FEET FROM WATERS OF THE STATE, OR WATERS OF THE U.S. PORTABLE TOILETS MUST BE SECURELY ANCHORED AND/OR TIED DOWN. SECONDARY CONTAINMENT SHALL BE PROVIDED AND FULL CAPACITY SHALL BE RESTORED IMMEDIATELY UPON DISCOVERY OF ITS DIMINISHMENT. THE LOCATION OF SANITARY FACILITIES SHALL BE SHOWN ON THE SITE MAPS.

SANITARY FACILITIES

NOTES:

- USING WATER FROM BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS FOR IRRIGATION MINIMIZES DISCHARGES FROM THE SITE, AND IT MAY SATISFY OTHER NEEDS OF THE CONSTRUCTION PROJECT, SUCH AS DUST CONTROL, VEGETATIVE ESTABLISHMENT, ETC.
- CARE SHOULD BE TAKEN THAT WATER UTILIZED FROM CONTAINMENT AREAS ON-SITE FOR CONSTRUCTION PURPOSES DOES NOT DISCHARGE OFF-SITE. IF DISCHARGE IS ANTICIPATED OR OBSERVED, DEWATERING PROCEDURES STATED IN THE DEWATERING DETAIL MUST BE FOLLOWED.
- GC SHALL IMPLEMENT IRRIGATION OR DISPERSION AS PRACTICABLE TO REDUCE WATER VOLUME IN IMPOUNDMENTS AND TO FOSTER VEGETATION GROWTH.

IRRIGATION OR DISPERSION

NOTES:

- STORM DRAIN INLET PROTECTION MEASURES SHALL PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS.
- TEMPORARY CONTROLS SHALL BE CONSTRUCTED BEFORE THE SURROUNDING AREA IS DISTURBED.
- TO PREVENT CLOGGING, STORM DRAIN CONTROL STRUCTURES MUST BE MAINTAINED FREQUENTLY.
- CHECK ALL TEMPORARY CONTROL MEASURES DAILY, AND AFTER EACH STORM EVENT.
- CONTROL MEASURES MUST BE BUILT PER DETAIL AND PLANS, AND MUST BE IN GOOD WORKING CONDITION AT ALL TIMES.

INLET PROTECTION

NOTES:

- THE GC SHALL IDENTIFY MASONS' AREA WITH LEGIBLE SIGNAGE ON THE SITE. TO THE EXTENT PRACTICAL, ALL MASONRY TOOLS, MATERIAL, INCLUDING SAND AND SACKED CEMENT AND/OR MORTAR MATERIALS, MIX, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED. MATERIALS VULNERABLE TO WEATHER ELEMENTS SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY; SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE.
- RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASONS' AREA. COVERED RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.
- THE MASONS' AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE) FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASONS' AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASONS' AREA SHALL BE SHOWN ON THE SITE MAPS.

MASONS' AREA

NOTES:

- VERIFY WITH ENGINEER AND AUTHORITY HAVING JURISDICTION WHICH DISCHARGES FROM DEWATERING ACTIVITIES ARE ALLOWED OR ARE NOT ALLOWED NON-STORMWATER DISCHARGES UNDER THE GENERAL PERMIT AND OTHER REGULATION. OBTAIN ALL DEWATERING PERMITS AND AUTHORIZATIONS REQUIRED BY STATE AND LOCAL REGULATIONS.
- GC MUST WAIT TO HAVE WRITTEN COPY OF ALL REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS BEFORE PERFORMING DEWATERING ACTIVITIES.
- DISCHARGES FROM DEWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT SYSTEM OF CONTROL MEASURES, SUCH AS A SEDIMENT/FILTER BAG, SEDIMENT TRAP OR SEDIMENT BASIN, AND OTHERS, AS NEEDED, PRIOR TO BEING DISCHARGED FROM THE SITE OR INTO A WATER BODY OF THE STATE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DEWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO SANITARY SEWER SYSTEMS, STREAMS, RIVERS, LAKES OR OTHER AREAS BEYOND THE PERMITTED PROJECT AREA. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DEWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF.
- IN SEDIMENT TRAP OR BASIN OR POND DEWATERING OPERATIONS, WATER MUST ONLY BE REMOVED FROM THE SURFACE OF THE CONTAINED WATER. A SKIMMER OR SIMILAR FLOATING DEVICE MUST BE USED, TO ONLY REMOVE THE WATER AT THE SURFACE.
- DO NOT DISCHARGE ON A SLOPE GREATER THAN THREE PERCENT NOR WITHIN 20 FEET OF A SURFACE WATER BODY.
- DEWATERING SHALL NOT OCCUR DURING OR IMMEDIATELY AFTER PRECIPITATION EVENTS, BUT EXCEPTIONS SHALL BE EVALUATED ON CASE BY CASE BASIS. CONTACT THE ENGINEER AND AUTHORITY HAVING JURISDICTION

DEWATERING

NOTES:

- CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
- SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS AND THE 02900 PLANTING SPECIFICATION IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
- THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.), OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
- VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
- THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
- RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
- ALL VEGETATED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.

SEEDING/VEGETATION REQUIREMENTS

NOTES:

- THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE.
- 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 (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC GENERAL PERMIT - NCG 010000)
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 21 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.(PER NCGEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS)
- THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
- ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
- IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
- ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
- ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDOR(TM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF QDOR(TM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
- ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

TEMPORARY SEEDING OR STABILIZATION

NOTES:

- PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION.
- THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE.
- 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 (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC GENERAL PERMIT - NCG 010000)
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.(PER NCGEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS)
- THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- SOILS MUST BE PREPARED BEFORE INSTALLATION OF SOD OR SEED.
- AT THE COMPLETION OF GROUND-DISTURBING ACTIVITIES, THE ENTIRE SITE MUST HAVE PERMANENT VEGETATIVE COVER MEETING VEGETATIVE DENSITY REQUIREMENTS IN THE GENERAL PERMIT, OR MULCH PER LANDSCAPE PLAN, IN ALL AREAS NOT COVERED BY HARDSCAPE (STONE, PAVEMENT, BUILDINGS, ETC.).
- SEEDED AREAS SHALL BE PROTECTED WITH STRAW MULCH, HYDRAULIC MULCH OR A ROLLED EROSION CONTROL PRODUCT. STRAW MULCH MUST BE TACKIFIED OR CRIMPED BY DISC OR OTHER MACHINERY, AND ROLLED EROSION CONTROL PRODUCTS MUST BE INSTALLED PER MANUFACTURER RECOMMENDATIONS; ONLY ROLLED EROSION CONTROL PRODUCTS ARE PERMITTED TO BE USED IN FLOW CONVEYANCES.
- ALL AREAS TO BE SEEDED MUST MEET TOPSOIL DEPTH, PH AND ORGANIC CONTENT REQUIREMENTS. SEE 02800 SPECIFICATION FOR INSTRUCTION ON PROPER SOIL PREPARATION.
- FINAL SITE STABILIZATION IS ACHIEVED WHEN PERENNIAL VEGETATIVE COVER PROVIDES PERMANENT STABILIZATION WITH A UNIFORM DENSITY GREATER THAN 70 PERCENT OVER THE ENTIRE AREA TO BE STABILIZED BY VEGETATIVE COVER. THIS AREA IS EXCLUSIVE OF AREAS THAT ARE COVERED WITH ROCK (CRUSHED GRANITE, GRAVEL, ETC.) OR LANDSCAPE MULCH, PAVED OR HAVE A BUILDING OR OTHER PERMANENT STRUCTURE ON THEM.

PERMANENT SEEDING, SOD OR MULCHING

NO.	DATE	REVISIONS	BY
1	9/19/18	Revised Per Town's Comments 8/14/18	CJJ

NOTES:

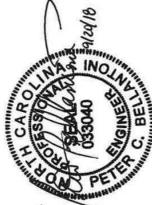
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Pennoni
Firm License
F-1267

PENNONI ASSOCIATES INC.
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Chapel Hill, NC 27514
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CHAPEL HILL COOPERATIVE PRESCHOOL

108 MT. CARMEL CHURCH ROAD
CHAPEL HILL, NC 27514

DETAILS

CHAPEL HILL COOPERATIVE PRESCHOOL

106 PUREFOY ROAD
CHAPEL HILL, NC, 27514

PROJECT	CHCP1601
DATE	2018-07-25
DRAWING SCALE	1"= 30'
DRAWN BY	DC
APPROVED BY	PCB

PRELIMINARY

NOT FOR CONSTRUCTION

CS8502
SHEET 10 OF 10