Under Review

Submitted for Site Plan Review



SITE DEVELOPMENT OF OCEAN PINES

KIAWAH ISLAND, SOUTH CAROLINA

PREPARED FOR:
KRA, LP
KIAWAH ISLAND PARKWAY
KIAWAH ISLAND, SC 29455
(843) 768-3418

TM# 207-05-00-118

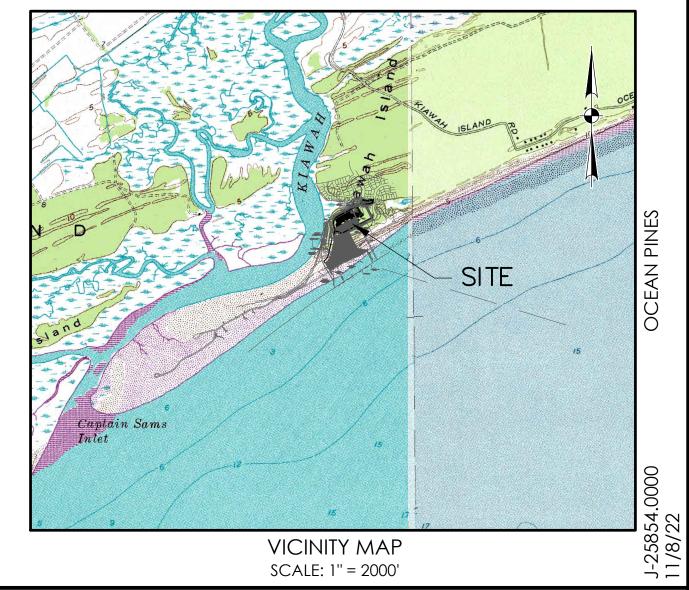
NOVEMBER 8, 2022

J-25854.0000

PREPARED BY:

J	THOMAS & HUTTC	N
	Engineering Surveying Planning GIS Consu	

REVISION HISTORY				
REV. NO.	REVISION	BY	DATE	



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SUBMITTAL HISTO	RY
SUBMITTED TO TOKI	9-8-202
SUBMITTED TO TOKI	8-8-202
SUBMITTED TO TOKI	5-26-202
SUBMITTED TO DHEC	4-24-202
SUBMITTED TO DHEC/OCRM	11-8-202
SUBMITTED TO	DATE





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	er Review	<u>PARKING TABLE</u>				
Submitte	ed for Site Plan Review	PARKING SPACES REQUIRED				
BUILDING	<u>USEAGE</u>	PARKING REQUIREMENT	CA	LCULATIO	<u>N</u>	SPACES
А	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	2 BDRM 9XI.75=I5.75	3 BDRM 3X2=6	4 BDRM 2X2=4	26
В	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	9XI.75=I5.75	3X2=6	2X2=4	26
С	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	4XI.75=7	4X2=8	-	15
D	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	4XI.75=7	4X2=8	-	15
E	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	4XI.75=7	4X2=8	-	15
F	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	4XI.75=7	4X2=8	-	15
G	MULTIPLE FAMILY	I.75 OR 2 SPACES PER BEDROOM TYPE	4XI.75=7	5X2=I0	-	17
				TOTAL SPA	ACES REQUIRED:	129
		ACCESSIBLE SPACES REQUIRED:		129/25		6
	PA	RKING SPACES PROVIDED (OCEAN PINES RE	ESIDENTIAL)			
<u>ITEM</u>	EM PROPOSED LOCATION			ACCESSIBLE SPACES		SPACES*
Α	SPACES PROVIDED WITHIN BUILDING FOOTPRINT			2		
В	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT	2			25
С	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT	2			13
D	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT	2			13
E	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT		2		13
F	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT		2		13
G	SPACES PR	OVIDED WITHIN BUILDING FOOTPRINT		2		15
ON SITE	SPACES PROVID	DED OUTSIDE BUILDINGS (BY BUILDING G)				12
					CES PROPOSED: CLUDES ACCESSIBLE)	129
INCLUDES ACCESSIBLE SPACES ACCESSIBLE SPACES PROVIDED:						14
	PAR	KING SPACES PROVIDED (CAPE CLUB SUPP	LEMENTARY	.7		
ITEM PROPOSED LOCATION						SPACES
ON SITE SPACES PROVIDED OUTSIDE BUILDING F (SEE SHEET GO.2)**						30
ON SITE SPACES PROVIDED OUTSIDE BUILDING G (SEE SHEET GO.2)**						36
OFF SITE		SPACES PROVIDED ON ADJACENT CAPE POINT PARKING PRO	JECT**			20
				TOTAL SPA	CES PROPOSED:	86

SPACES ONSITE
Ś

DESCRIPTION	EXISTING	PROPOSED
VATER MAIN —	10"W	
INGLE SERVICE LATERAL		
OUBLE SERVICE LATERAL	<u>></u>	>
ALVE AND BOX	\otimes	•
TIRE HYDRANT W/VALVE & BOX	⊗-∳-	ۥ
OST HYDRANT) H	>
EDUCER		4
ACKFLOW PREVENTOR		
oss	1_1	1_1
EE	<u> </u>	1-1
O° BEND - HORIZONTAL		
BEND - HORIZONTAL	/	/
-½° BEND - HORIZONTAL	/	/
4° BEND - HORIZONTAL	1	1
END - VERTICAL		[]
CAP		

	<u>ABBREVIATIONS</u>					
HDPE	HIGH DENSITY POLYETHELENE	LF	LINEAR FEET	SF	SQUARE FEET	
вот	воттом	MAX	MAXIMUM	ss	SANITARY SEWER	
CI	CURB INLET	MIN	MINIMUM	тс	TOP OF CURB	
CPP	CORRUGATED PLASTIC PIPE	мн	MANHOLE	TG	TOP OF GUTTER	
DIP	DUCTILE IRON PIPE	ос	ON CENTER	TP	TOP OF PAVEMENT	
EL	ELEVATION	PC	POINT OF CURVE	TW	TOP OF WALK	
FG	FINISH GRADE	PH	POST HYDRANT	TYP	TYPICAL	
FH	FIRE HYDRANT	PT	POINT OF TANGENT	w	WATER	
FM	FORCE MAIN (SANITARY SEWER)	PVC	POLYVINYL CHLORIDE	w/	WITH	
FR	FRAME	RCP	REINFORCED CONCRETE PIPE	wv	WATER VALVE	
GI	GRATE INLET	RJP	RESTRAINED JOINT PIPE	YI	YARD INLET	
GV	GATE VALVE	R/W	RIGHT-OF-WAY			
INV	INVERT ELEVATION	SD	STORM DRAINAGE			
JB	JUNCTION BOX	SDMH	STORM DRAINAGE MANHOLE			

JB	JUNCTION BOX			SDMH	STORM DRAINAGE MANHOLI		
	DRAINAGE LEGEND						
DESCRIPTION		<u>EXISTING</u>			PROPOSED		
PIPE				· — -			
DITCH				-			
CURB	INLET	Т					
GRATI	E INLET						
JUNCTION BOX					•		

OUTLET STRUCTURE

<u>ID</u>	
OPOSED	ОТ
· · · · —	DESCR
•	NATURAL
	TELEPHO
	UNDERGR

HER UTILITIES LEGEND <u>RIPTION</u> **EXISTING** GAS ----- UGG ------ UGG -----— OHT — — OHT — — ROUND TELEPHONE — UTL ———— UTL ——— ELECTRICITY - OHP ----- OHP -----

UNDERGROUND ELECTRICITY

DESCRIPTION

SINGLE SERVICE LATERAL

DOUBLE SERVICE LATERAL

— UGP ——— UGP ——

GRAVITY PIPE

MANHOLE

CLEANOUT

COUNTY TOWN ZONING FLOOD ELEV. 10

I. SURVEYING AND BOUNDARY INFORMATION BY SOUTHEASTERN LAND SURVEYING, LLC.

4. CONTRACTOR IS TO VERIFY ACCURACY OF ANY TEMPORARY BENCHMARKS SHOWN PRIOR TO UTILIZING THEM

CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES OTHER

THAN THOSE SHOWN ARE ENCOUNTERED DURING CONSTRUCTION . THE CONTRACTOR SHALL NOTIFY THE

ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING

ENGINEER IMMEDIATELY AND TAKE STEPS TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.

6. IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE

7. THE CONTRACTOR SHALL INSTALL ANY BARRICADES PRIOR TO BEGINNING CONSTRUCTION

EXISTING

SEWER LEGEND

5. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE

2. ALL ELEVATIONS SHOWN ARE BASED ON NGVD 1929.

UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.

DISTURBED AREA AT NO ADDITIONAL COST TO THE OWNER.

3. TOPOGRAPHIC SURVEY BY SOUTHEASTERN LAND SURVEYING, LLC.

TOWN OF **R2 ZONING** DISTRICT ZONE AE

CHARLESTON KIAWAH ISLAND

207-05-00-118

GENERAL INFORMATION <u>OWNER:</u> KRA, LP I KIAWAH ISLAND PARKWAY KIAWAH ISLAND, SC 29455

<u>PROPOSED</u>

THOMAS & HUTTON 682 JOHNNIE DODDS BLVD. MT. PLEASANT, SC 29464 (843) 849-0200

(843) 768-3418

8. THE FOLLOWING NOTES ARE SPECIFIED BY THE KICA AND ARE TO BE EXECUTED BY THE CONTRACTOR FOR STREETS IN THE PROJECT WHICH ARE TO BE DEEDED TO KICA:

PROJECT MAP

SCALE: I" = 400'

GENERAL NOTES

ANY DAMAGE TO EXISTING PAVEMENT MUST BE REPAIRED AT CONTRACTORS EXPENSE AND TO THE

SATISFACTION OF KICA AND THE PROJECT ENGINEER. ALL RIGHT-OF-WAY AND DRAINAGE EASEMENT CONSTRUCTION SHALL MEET TOWN OF KIAWAH ISLAND

WHERE FIELD INSPECTIONS ARE REQUIRED BY THE TOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE SUCH INSPECTIONS. A COMPLETE SET OF APPROVED DRAWINGS AND SPECIFICATIONS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK. THESE DRAWINGS SHALL BE MADE AVAILABLE

ANY REVISIONS DURING CONSTRUCTION WHICH ALTER THE ROAD LAYOUT, CONSTRUCTION METHODS, RIGHT-OF-WAY LOCATION OR DRAINAGE MUST BE SUBMITTED AND APPROVED IN WRITING BY THE PROJECT ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS NECESSARY FROM OTHER RESPONSIBLE AGENCIES.

ALL TREES SHOWING DISTURBANCE WITHIN THE PROTECTED ROOT ZONE SHALL BE PRUNED AND

FERTILIZED BY A CERTIFIED ARBORIST PRIOR TO RECEIVING FINAL PLAT APPROVAL (THIS WORK WILL BE DONE BY THE OWNER OUTSIDE OF THE CONTRACT.) LAKE CONTOURS SHOWN HEREIN WILL PROVIDE A DEPTH ONE FOOT GREATER THAN NECESSARY FOR STORM WATER MANAGEMENT. THIS IS TO PROVIDE FOR ONE FOOT OF SILT BUILDUP DURING

CONSTRUCTION OF ANY AREA OF ANY POND WHICH SILTS MORE THAN ONE FOOT ABOVE DESIGNED BOTTOM ELEVATION SHALL BE RESTORED TO THE MINIMUM ACCEPTABLE DEPTH OF ONE FOOT LESS THAN ORIGINAL CONSTRUCTED DEPTH.

ALL ABOVE GROUND UTILITIES ARE TO BE OUTSIDE OF THE R/W AND ALL AT GRADE UTILITIES ARE TO BE OUT OF THE CURB LINE. 9. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL AND PREVENTION STRUCTURES SHOWN ON THE

IO. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.

II. CONTRACTOR SHALL GRADE AREAS TO DRAIN FOR POSITIVE FLOW PRIOR TO FINAL APPROVAL.

UNIFORM TRAFFIC CONTROL DEVICES" BOTH CURRENT EDITIONS.

12. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND "SOUTH CAROLINA MANUAL ON

13. ALL DRAINAGE WILL BE MADE FUNCTIONAL DAILY AS WORK PROGRESSES.

14. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH TOWN OF KIAWAH ISLAND ROAD CODE.

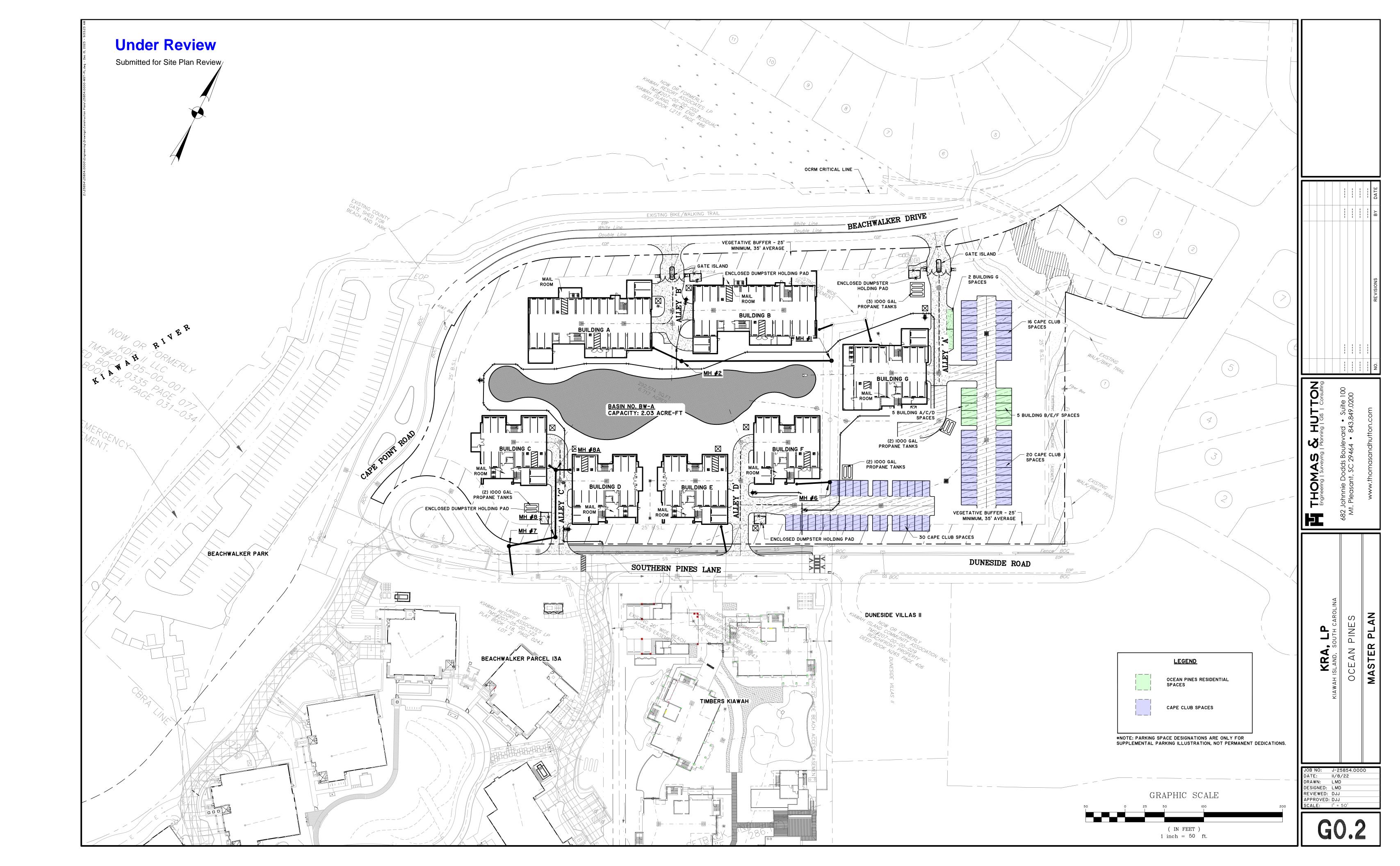
PREPARED FOR: KRA, LP 1 KIAWAH ISLAND PARKWAY KIAWAH ISLAND, SC 29455 (843) 768-3418

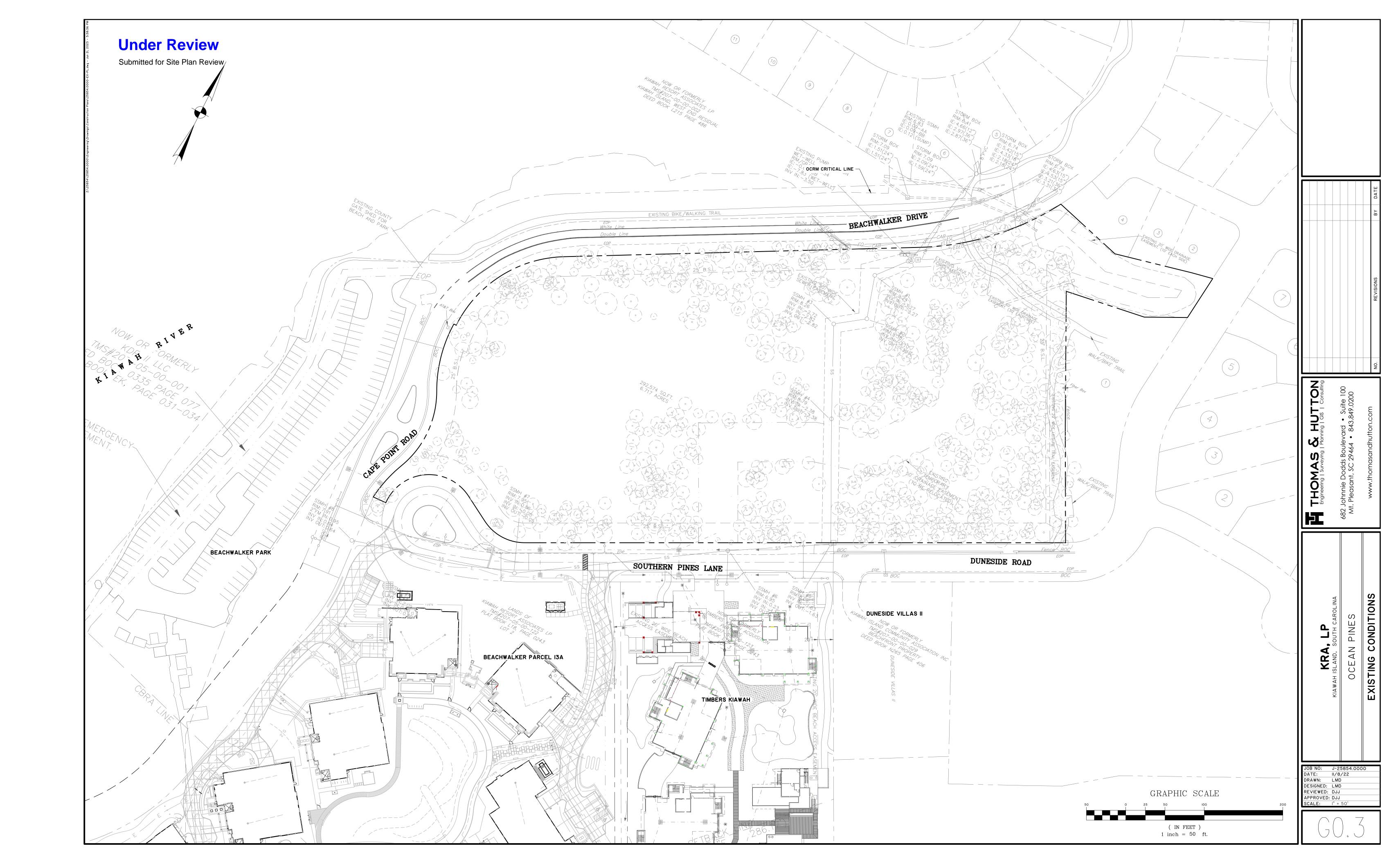
SURVEYOR:
SOUTHEASTERN LAND SURVEYING, LLC 1035-B JENKINS ROAD CHARLESTON, SC 29407 (843) 795-9330

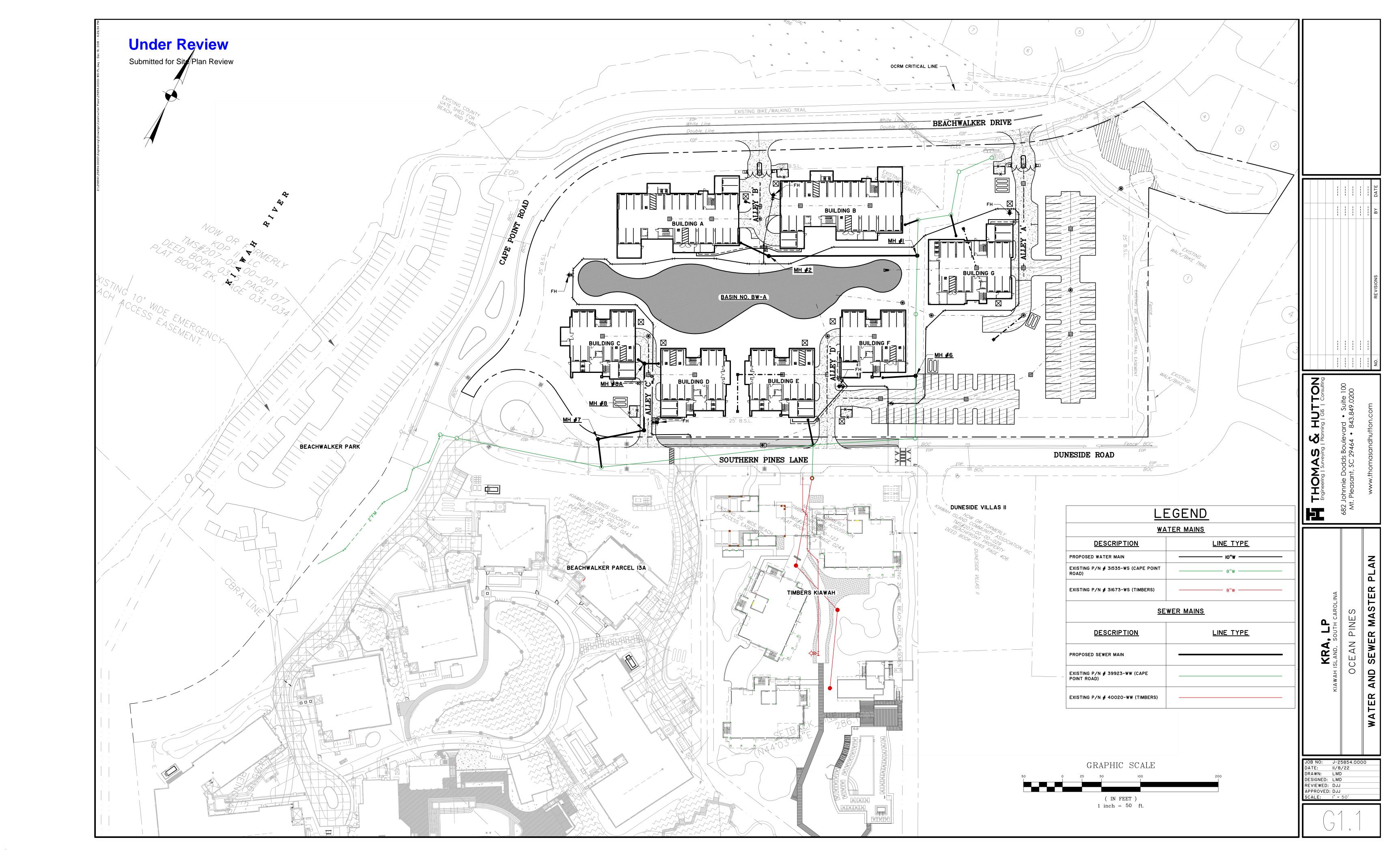
ARCHITECT: HART HOWERTON IO EAST 40TH STREET NEW YORK, NY 10016 (212) 683-5631

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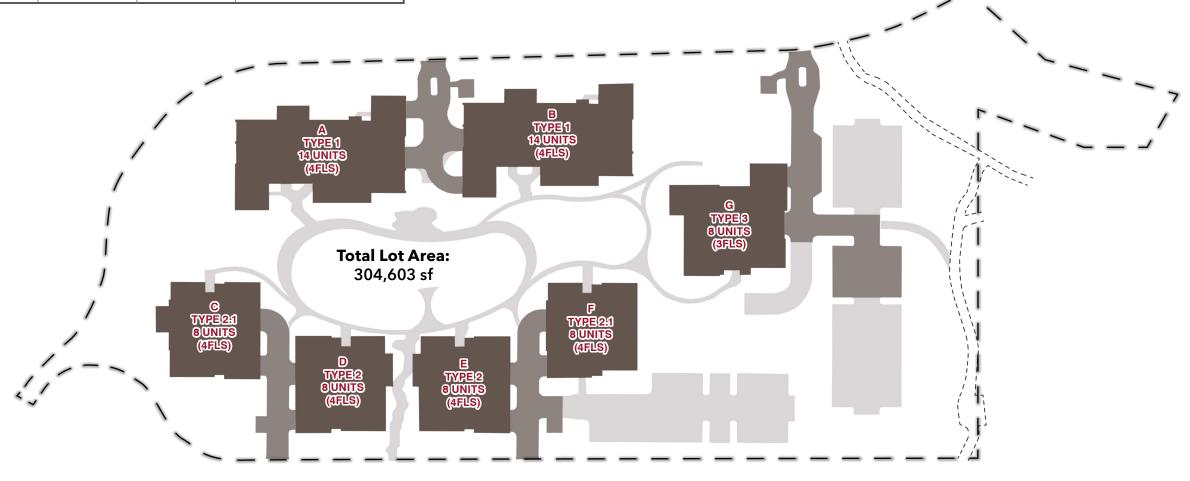
DRAWN: LMD DESIGNED: LMD REVIEWED: DJJ APPROVED: DJJ SCALE: AS SHOWN

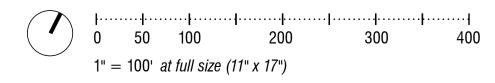






	COVERAGE AREA TOTALS					
Total Lot Area: 304,603 SF		Coverage in Square Feet	Coverage as % of that Area	Pervious Coverage in Square Feet		
Building Footprints & Occupied Overhangs		+/- 62,278 SF	20.45%	o SF		
Drive Alleys, Dumpster Holding Pads & Exterior Parking		S <u>ubmitted</u> fo	r ₆ Ş <u>i</u> te Plan F	ŖŖĸĬĠŴ ^Ŗ ĸ		
Total Primary Coverage (Not to exceed 33% of Lot Area)		+/- 83,067 SF	27.27%	+/- 4,508 SF (5.43% of Primary Cov.)		
Secondary Elements		+/- 35,633 SF	11.70%	+/- 32,520 SF (91.26% of Secondary Cov.)		
Total Primary and Secondary Lot Coverage (Not to exceed 39.67% of Lot Area)		+/- 118,700 SF	38.97%	+/- 37,028 SF (31.19% of Combined Cov.)		





*KICA leisure trail shown for reference only

B. DESCRIPTION OF CONSTRUCTION ACTIVITY

WORK CONSISTS OF WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS, STORMWATER MANAGEMENT AND ROAD CONSTRUCTION.

C. RUNOFF DATA

C.1. SOIL CLASSIFICATIONS:

BEACHES C.2. LAND USE(S): RESIDENTIAL

D. RECEIVING WATERS

D.1. CLOSEST RECEIVING WATERS: KIAWAH RIVER D.2. ULTIMATE RECEIVING WATERS: ATLANTIC OCEAN

E.1. FEMA FLOOD ZONE(S): AE (13&14) E.2. FEMA FLOOD INSURANCE MAP(S): 4519C0785K 1/29/21

I. CONTROL MEASURES

1. EROSION AND SEDIMENT CONTROLS

PRIOR TO START OF CONSTRUCTION, ALL EXTERIOR SILT FENCE WILL BE INSTALLED AS SHOWN ON THE PLANS.

1.1. CLEARING

1.1.1. AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCE WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS BECOME CHANNELIZED, AND OTHER POINTS WHERE EXCESSIVE RUNOFF VELOCITIES MAY OCCUR.

1.1.2. INSTALL CONSTRUCTION ENTRANCES / EXITS BEFORE BEGINNING CLEARING 1.1.3. CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF

ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING 1.1.4. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING EFFORTS

AND REDUCE RAINDROP IMPACT 1.1.5. INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UP-SLOPE SOIL DISTURBING

ACTIVITIES. 1.1.6. PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE AREAS DISTURBED AT ONE TIME. THIS WILL ALSO ALLOW COMPLETED AREAS TO BE STABILIZED AND RE-VEGETATED BEFORE DISTURBING ADJACENT SITES. THE NEED FOR TEMPORARY EROSION CONTROL MEASURES MAY BE AVOIDED BY COMPLETING A PHASE AND INSTALLING PERMANENT EROSION

CONTROL MEASURES WHEN THE FINAL GRADE IS ATTAINED. 1.1.7. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 35-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 45-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERS.

1.1.8. INSTALL SILT FENCE (OR BIO ROLLS/ROCK SOCK PRODUCTS) ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRUBBING). SILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE FEET PER LINEAL FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE . SWALES AND SHORELAND AREAS SHOULD ALSO BE PROTECTED WITH SILT FENCE, BIO ROLLS, OR ROCK SOCKS.

1.1.9. IN AREAS OF CONCENTRATED FLOW INSTALL STRAW BALE CHECKS, ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT

1.1.10. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.

1.1.11. CONSTRUCT SEDIMENT BASINS FOR DRAINAGE AREAS GREATER THAN 10 ACRES

1.2. ROUGH GRADING

1.2.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING, DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND

TEMPORARY SEEDING. 1.2.2. ALL AREAS NOT SUBJECT TO FURTHER CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER DISTRIBUTION SYSTEMS, OR STORM WATER FACILITIES) SHALL BE GRASSED WITH A PERMANENT COVER.

1.2.3. COVER ANY STOCK PILED TOPSOIL WITH PLASTIC (OR OTHER IMPERVIOUS COVERING) OR USE A TEMPORARY SEED MIX. USE STOCKPILED TOPSOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.

1.3.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING DRAINAGE INSTALLATION.

1.3.2. CONSTRUCTION DRAINAGE WILL BE ROUTED THROUGH LAKES, WHICH WILL ACT AS SEDIMENT BASINS OR OTHER ACCEPTABLE SEDIMENT BASINS/TRAPS.

1.3.3. STORM DRAIN INLET PROTECTION AS SHOWN ON DETAIL SHEET SHALL BE INSTALLED ON ALL CURB INLETS, STORM DRAIN MANHOLES, JUNCTION BOXES, AND GRATE INLETS. 1.3.4. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF THE NEXT CONSTRUCTION

SEQUENCE WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING. 1.3.5. ALL STORM LINES NOT IN STREETS OR OTHER PAVED AREAS ARE TO BE MULCHED AND

1.4. WATER DISTRIBUTION SYSTEM INSTALLATION

SEEDED WITHIN 5 DAYS AFTER BACKFILL.

1.4.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WATER DISTRIBUTION SYSTEM

1.4.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.5. WASTEWATER COLLECTION SYSTEM INSTALLATION

1.5.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WASTEWATER

1.5.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.6. CONSTRUCTION OF ROADS

1.6.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROAD CONSTRUCTION. 1.6.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.7. GRASSING

1.7.1. ALL EXISTING CONTROLS WILL BE MAINTAINED UNTIL GRASSING IS ESTABLISHED 1.7.2. ANY AREAS THAT ERODE OR WHERE GRASS DOES NOT ESTABLISH ITSELF SHALL BE RE-GRADED AND RE-GRASSED.

2. STORM WATER MANAGEMENT

RUNOFF FROM THIS PROJECT WILL DISCHARGE INTO A STORM WATER MANAGEMENT SYSTEM.

TREATMENT WILL OCCUR IN STORM WATER DETENTION PONDS.

3. OTHER CONTROLS

3.1. WASTE DISPOSAL

3.1.1. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS

3.1.2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE

3.1.3. THIS PLAN SHALL COMPLY WITH STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER

OR SEPTIC SYSTEM REGULATIONS.

3.1.4. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES, WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

III. MAINTENANCE

MAINTENANCE PROGRAM

1.1. THE SITE SUPERINTENDENT, OR HIS/HER REPRESENTATIVE, SHALL MAKE VISUAL INSPECTIONS OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS: ESPECIALLY AFTER HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.

1.2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL DRAINAGE SWALES. POCKETS. DEPRESSION. LOW LINES. AND OUTLET DITCHES SHALL DRAIN EFFECTIVELY AT ALL TIMES. SETTLEMENT OR WASHING THAT MAY OCCUR SHALL BE REPAIRED BY THE CONTRACTOR. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN AN EFFECTIVE BARRIER MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TACKED ONTO PUBLIC ROADWAYS. RESEED AND MULCH AREA WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE, INSPECT ALL MULCHES PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR EROSION, DISLOCATION OR FAILURE. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED. AMEND THE SEQUENCE SCHEDULE IN ADVANCE TO MAINTAIN MANAGEMENT CONTROL. IF MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE ENGINEER. SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED

SILT FENCE

SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING PROPERLY WILL BE PROMPTLY REPAIRED. CLEAN OUT THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR REPLACE WITH FUNCTIONAL SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE STORM INLETS IS UNACCEPTABLE

3. SEDIMENTATION BASINS

SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR APPROACHING SUCH CAPACITY SHALL BE RE-EXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.

SEDIMENT LOGS/ROLLS OR OTHER CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INEFFECTIVELY SHALL BE PROMPTLY REPLACED.

ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED SHALL IMMEDIATELY BE REPLACED.

6. CONSTRUCTION ENTRANCE

. SEDIMENT LOGS/ROLLS

MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD

IV. INSPECTIONS

QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH DURING THE WARRANTY PERIOD.

2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

3. A WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT. DURATION OF EACH STORM EVENT. APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE. LOCATION(S) OF BMP'S THAT NEED MAINTENANCE, LOCATION(S) OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED. THAT DID NOT EXIST AT THE TIME OF INSPECTION AND ANY CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.

4. THE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE NPDES PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

V. LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER

THE ROADS AND DRAINAGE SYSTEM WILL BE OWNED AND MAINTAINED BY KIAWAH RESORT ASSOCIATES, LP AFTER CONSTRUCTION IS COMPLETE AND UNTIL SUCH TIME AS THE OWNERSHIP IS TURNED OVER TO A SUBSEQUENT NEW ENTITY.

VI. SC DHEC STANDARD NOTES

IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO GRASSING / HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED

2.1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. 2.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY

STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED. GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND

STORMWATER POLLUTION PREVENTION PLAN

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN

ACCORDANCE WITH S.C. REG. 72-300 AND SCR100000.

ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOLIBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN,

16. THE FOLLOWING DISCHARGES ARE PROHIBITED:

16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL:

16.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS: 16.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND

MAINTENANCE: AND 16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF PERMIT SCR100000 AND/OR SC'S WATER QUALITY STANDARDS. IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE

VII. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

THE IMPLEMENTATION OF THESE EROSION SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL

CLEARING AND GRADING ACTIVITIES. AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND

SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND

SEDIMENT LADEN WATER DO NOT LEAVE THE SITE. 4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS

5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.

NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

6. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF

8. BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY, THE EXISTING STORM WATER INLET(S) THAT RECEIVING RUNOFF FROM THE PROPOSED WORK AREA SHALL BE PROTECTED. THE TEMPORARY INLET PROTECTION MUST REMAIN IN PLACE UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETED. THE STREET HAS BEEN SWEPT AND ANY EXPOSED SOILS ARE STABILIZED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVING ANY TEMPORARY INLET PROTECTION INSTALLED; AFTER ALL DISTURBED AREAS ARE STABILIZED. TEMPORARY PROTECTION OF THE INLETS MAY BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING:

8.1. USE OF GRAVEL BAGS TO FILTER THE SEDIMENT FROM ANY RUNOFF. TO MAKE A GRAVEL BAG, USE A BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH EITHER 3/4 INCH ROCK OR 1/4 INCH PEA GRAVEL 8.2. USE OF SEDIMENT LOGS TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH

LOCAL EROSION CONTROL SUPPLIERS). 8.3. USE OF ABOVE OR UNDER-GRATE FILTER BAGS OR DEVICES TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH EROSION CONTROL SUPPLIERS).

9. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION, SEDIMENTATION, OR FLOODING ON THE SITE, ON DOWNSTREAM PROPERTIES, IN THE RECEIVING CHANNELS, OR IN ANY STORM WATER INLET. WHEN SITE DEWATERING, WATER PUMPED FROM THE SITE, INCLUDING

TRENCHES, SHALL BE TREATED BY ONE OF THE FOLLOWING: 9.1. TEMPORARY SEDIMENTATION BASINS

9.2. SEDIMENT FILTERING BAGS

10. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES THAT EXIST ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES, EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITIES PROTECTION CENTER TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MINIMUM OF 96 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.

11. THE CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR THE PROJECT. 12. EGRESS FROM THE SITE SHALL BE CONTROLLED SUCH THAT VEHICLES LEAVING THE SITE MUST

TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES. 13. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST

14. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AND INDEFINITE LENGTH OF TIME, ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.

15. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND THOMAS & HUTTON, OR THE OWNER IN ANY WAY.

16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE

SWALES TO INSURE STORM WATER DOES NOT POND ON SITE. 17. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN

THE CONSTRUCTION AREA AND TO FACILITATE STORM WATER DISCHARGE. 18. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF

EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES. 19. LIME RATES AND ANALYSIS:

19.1. AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE SHOWN IN THE SEEDING SECTION UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME APPLICATION SHALL BE WITHIN THE SPECIFICATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE.

20. MULCHING:

MUI CHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MUI CH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

20.1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE

20.2 WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING. 20.3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A

TACKIFIER. SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.

20.4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE 20.5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR

SEEDED AREAS. 20.6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NOT REQUIRED.

20.7. ON SLOPES GREATER THAN 10 FEET IN LENGTH AND 4:1 OR STEEPER, USE THE FOLLOWING EROSION CONTROL BLANKETS THAT HAVE BEEN PROPERLY ANCHORED TO THE SLOPE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS:

• 2:1 SLOPES OR STEEPER: - STRAW/COCONUT BLANKET OR HIGH VELOCITY WOOD BLANKET

• 3:1 SLOPES OR STEEPER: - WOOD OR STRAW BLANKET WITH NET ON BOTH SIDES • 4:1 SLOPES OR FLATTER: - WOOD OR STRAW MULCH BLANKET WITH NET ON ONE SIDE

VIII. HOUSEKEEPING

THESE PERFORMANCE STANDARDS APPLY TO ALL SITES.

1. PETROLEUM PRODUCTS: INCLUDING OIL, GASOLINE, LUBRICANTS AND ASPHALTIC SUBSTANCES

1.1. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS

OR ON MAINTENANCE AND FUELING VEHICLES 1.2. STORE IN COVERED AREAS PROTECTED WITH DIKES

2. SPILLS: PREVENTION AND RESPONSE.

2.1. STORE AND HANDLE MATERIALS TO PREVENT SPILLS 2.2. TIGHTLY SEALED CONTAINERS, NEAT AND SECURE STACKING, ETC.

2.3. REDUCE STORM WATER CONTACT IF SPILL OCCURS

2.3.1. CLEANUP PROCEDURES SHOULD BE CLEARLY POSTED 2.3.2. CLEANUP MATERIALS SHOULD BE READILY AVAILABLE 2.3.3. STOP THE SOURCE

3. NON-STORM WATER DISCHARGES

THE FOLLOWING NON-STORMWATER DISCHARGES MUST BE PROTECTED FROM CAUSING

POLLUTION OR EROSION:

3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES 3.2 FIRF HYDRANT FLUSHINGS 3.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED

3.4. WATER USED TO CONTROL DUST 3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS

3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS 3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE

3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE 3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER

3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS

3 12 LANDSCAPE IRRIGATION 3.13. DECHLORINATED SWIMMING POOL DISCHARGES.

3.11. UNCONTAMINATED EXCAVATION DEWATERING

4. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING

4.1. SELECT A DESIGNATED WASTE COLLECTION AREA 4.2. PROVIDE LIDS FOR WASTE CONTAINERS

4.3. WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AREA

4.4. MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WASTE

5. PESTICIDES: REDUCE THE AMOUNT OF PESTICIDES AVAILABLE FOR CONTACT WITH STORM WATER.

DETERGENTS ARE NOT USED

5.1. STORE IN A DRY COVERED AREA 5.2. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS 5.3. STRICTLY FOLLOW RECOMMENDED APPLICATION RATES

6. FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS

6.6. APPLY ACCORDING TO SOIL TEST RECOMMENDATIONS PRIOR TO SEEDING.

AVAILABLE FOR CONTACT WITH STORM WATER. 6.1. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED

6.2. APPLY MORE FREQUENTLY BUT AT LOWER APPLICATION RATES 6.3. LIMIT USE OF DETERGENTS ON-SITE 6.4. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM

6.5. MAINTAIN STRUCTURAL AND VEGETATIVE BMP'S

IX. GRASSING NOTES

ALL SOD SHALL BE NURSERY GROWN AS CLASSIFIED IN THE ASPS GSS. MACHINE CUT SOD AT A UNIFORM THICKENS OF 3/4" WITHIN A TOLERANCE OF 1/4". EXCLUDING TOP GROWTH AND THATCH. FACH INDIVIDUAL SOD PIECE SHALL BE STRONG ENOUGH TO SUPPORT ITS OWN WEIGHT WHEN LIFTED BY THE ENDS. BROKEN PODS. IRREGULARLY SHAPED PIECES. AND TORN OR UNEVEN ENDS WILL BE REJECTED. WOOD PEGS AND / OR WIRE STAPLES SHALL REPLACE SOD WITH AN EQUAL SOD COMPOSITION AS THAT WHICH IS EXISTING. IF NO SOD TYPE EXIST. THEN THE FOLLOWING SOD COMPOSITION SHALL BE USED.

SODDING SCHEDULE:

LAY SOD FROM MAY 1 TO SEPTEMBER 15 FOR SPRING PLANTING AND FROM SEPTEMBER 15 TO NOVEMBER 1 FOR FALL PLANTING.

ALL SEED SHALL CONFORM TO ALL STATE LAWS AND TO ALL REQUIREMENTS AND REGULATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE. THE SEVERAL VARIETIES OF SEED SHALL BE INDIVIDUALLY PACKAGED OR BAGGED, AND TAGGED TO SHOW NAME OF SEED, NET WEIGHT, ORIGIN, GERMINATION, LOT NUMBER, AND OTHER INFORMATION REQUIRED BY THE DEPARTMENT OF AGRICULTURE.

3.1. PENNISETUM GLAUCIUM (BROWNTOP MILLET): TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION.

BERMUDA COMMON: TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION.

3.3. DOMESTIC ITALIAN RYE: TESTING 98 PERCENT PURITY AND 90 PERCENT GERMINATION.

4. MISCELLANEOUS:

4.1. PERMANENT SEEDING SHALL COVER ALL DISTURBED AREA NOT TO BE COVERED BY

LANDSCAPE PLANTING BEDS, STRUCTURE, OR PAVEMENT. SEED ALL DISTURBED AREAS WITHIN SEVEN DAYS OF FINAL GRADING AND TEMPORARY

4.5. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR

SHALL APPLY PERMANENT COVER (IN ADDITION TO THE TEMPORARY COVER) AT THE APPROPRIATE

TIME AT NO NO ADDITIONAL COST, THE CONTRACTOR MUST ACHIEVE A STRAND OF PERMANENT

GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY

SEED/MULCH ALL AREAS THAT WILL BE LEFT INACTIVE FOR MORE THAN FOURTEEN (14) DAYS. 4.3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED 4.4. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER

X. PERMANENT STABILIZATION

NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. IF NECESSARY, AREAS MUST BE RE-WORKED AND RE-STABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY ,OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO THE SITE.

4.1. SEEDED AREAS

10 SF.

AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL. 4.2. SODDED AREAS

FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SO

FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED

ROOTS INTO THE APPROVED MULCH MATERIAL.

4.3. PERMANENT MULCH

FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL

PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP.

FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES

4.5. DITCHES, CHANNELS, AND SWALES FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIPRAP LINING, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THEI

MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR

STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF AN APPROVED GEOTEXTILE T

DOWN CUTTING OF THE CHANNEL.

XI. FERTILIZER REQUIREMENTS

 TEMPORARY SEEDING FERTILIZER APPLY A MINIMUM OF 500 LBS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (11.5 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING TEMPORARY SEEDING OF GRASSES UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW. LIME IS NOT REQUIRED FOR TEMPORARY SEEDING UNLESS A SOIL TEST SHOWS THAT THE SOIL PH IS BELOW 5.0. IT IS DESIRABLE TO APPLY LIME DURING THE TEMPORARY SEEDING OPERATION TO BENEFIT THE LONG-TERM PERMANENT SEEDING. APPLY A MINIMUM OF 1.5 TONS OF LIME / ACRE

PERMANENT SEEDING FERTILIZER

(70LBS. / 1000 SQ. FT.).

APPLY A MINIMUM OF 1000 LBS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (23 POLINDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING PERMANENT SEEDING OF GRADES UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW. DO NOT MIX THE LIME AND THE FERTILIZER PRIOR TO THE FIELD APPLICATION. UNLESS A SPECIFIC SOIL TEST INDICATES OTHERWISE, APPLY 1 & 1/2 TONS OF GROUND COARSE TEXTURED

XII. SWPP PREPARER CERTIFICATION

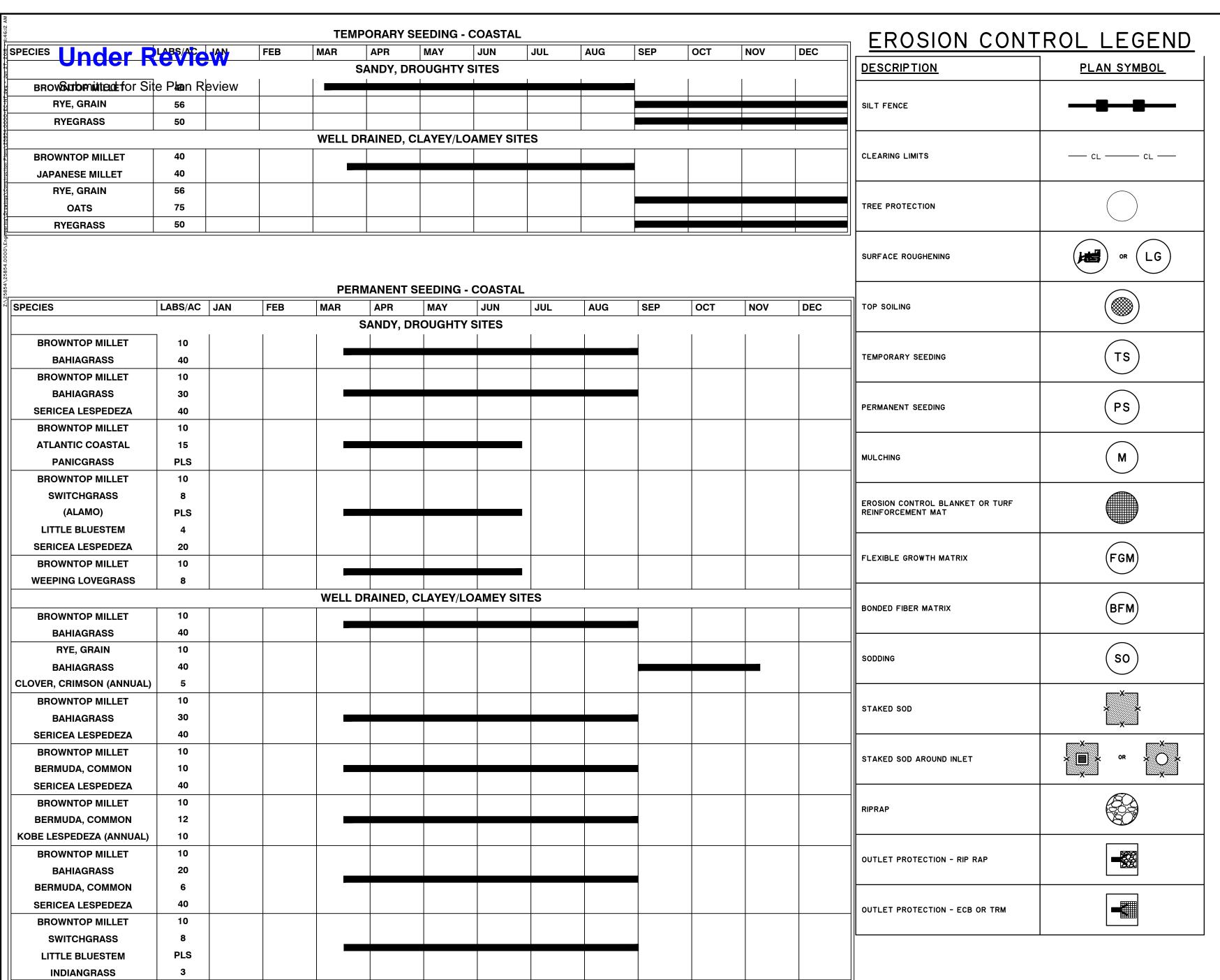
AGRICULTURAL LIMESTONE PER ACRE (70 LBS. / 1000 SQ.FT.).

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

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11/8/22 DRAWN: DESIGNED: LMD REVIEWED: DJJ APPROVED: DJJ

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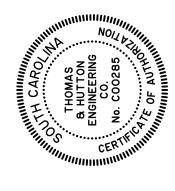


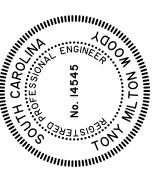
FROSION CONTROL I FGEND

DESCRIPTION	ROL LEGEND
DESCRIPTION	PLAN SYMBOL
ROCK SEDIMENT DIKE	
SEDIMENT TUBE	
ROCK CHECK DAM	OR
STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	A
STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE	A
STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE	B
STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL	:C:
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	E
STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE	F
SILT SAC	G

EDIMENT TOBE			•			
OCK CHECK DAM			OR			
TABILIZED CONSTRUCTION ENTRANCE						
ONCRETE WASHOUT						
TORM DRAIN INLET PROTECTION - TYPE A ILTER FABRIC			A			
TORM DRAIN INLE EDIMENT TUBE	ET PROTEC	TION - TYPE A	A			
TORM DRAIN INLE ARDWARE FABRIO			BA			
TORM DRAIN INLET PROTECTION - TYPE C LOCK AND GRAVEL			i Ci			
TORM DRAIN INLET PROTECTION - TYPE D IGID INLET FILTER						
TORM DRAIN INLET PROTECTION - TYPE E URFACE COURSE CURB INLET FILTER			E			
TORM DRAIN INLET PROTECTION - TYPE F ILET TUBE			F			
ILT SAC			G			
					CONCTRUCTO	ON CEOUENCE
			CONSTRUCTION	ΟΝ ΔΟΤΙΛΙΤΑ	CONSTRUCTIO	ON SEQUENCE SCHEDULE CO
	1	OBTAIN COPIE	S OF ALL PLAN APPROVALS AN		PLICABLE PERMITS.	CONTRACTOR TO MAINTAIN OS-SWPP AT A
		1			SE	
LIMITS FO			ARING LIMITS, MARK TREES TO ROTECTION.	REVIEW TREE PROTECTION (BARRICADE) W PROTECTED TREES AND LOCATIONS WHERE INFRASTRUCTURE TO DOCUMENT PREDEVE		
	3	CONSTRUCTIO NECESSARY FO	NSTRUCTION CONFERENCE AT N. HOLD ADDITIONAL PRE CO PR FUTURE WORK.	ONSTRUCTION	CONFERENCES AS	EACH CONTRACTOR, SUBCONTRACTOR, UT PRE CONSTRCUTION CONFERNECE IN PERSO CERTIFICATION.
	4		TRUCTION ACCESS PER THE IN R MANAGEMENT PLAN.	NITIAL LAND D	STABILIZE BARE AREAS IMMEDIATELY AND ENTRANCES.	
	5	LIMITED LAND	CLEARING, GRADING, AND IN TROL BMPS INCLUDING SILT FI			BEGIN MINOR CLEARING AND GRADING AS EROSION CONTROL BMPS.
	6		ERIMETER EROSION CONTROL DAMS PER THE INITIAL LAND D	INSTALL ALL PERIMETER EROSION CONTRO AND GRADING ACTIVITIES. INSTALL ADDITI		

			CONSTRUCTION SEQUENCE						
			CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION					
		1	OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	CONTRACTOR TO MAINTAIN OS-SWPP AT ALL TIMES DURING CONSTRUCTION.					
			INITIAL PHASE						
ON - RIP RAP		2	FLAG THE CLEARING LIMITS, MARK TREES TO BE PROTECTED, AND MARK BUFFER LIMITS FOR PROTECTION.	REVIEW TREE PROTECTION (BARRICADE) WITH OWNER. TAKE PICTURES OF ALL PROTECTED TREES AND LOCATIONS WHERE SITE WORK TIES INTO EXISTING INFRASTRUCTURE TO DOCUMENT PREDEVELOPMENT PROCEDURES.					
N - ECB OR TRM		3	CONSTRUCTION. HOLD ADDITIONAL PRE CONSTRUCTION CONFERENCES AS	PRE CONSTRCUTION CONFERNECE IN PERSON AND EXECUTE A CONTRACTOR CERTIFICATION.					
		4	INSTALL CONSTRUCTION ACCESS PER THE INITIAL LAND DISTURBANCE PHASE STORMWATER MANAGEMENT PLAN.	STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES.					
		5	LIMITED LAND CLEARING, GRADING, AND INITIAL INSTALLATION OF PERIMETER EROSION CONTROL BMPS INCLUDING SILT FENCE, SEDIMENT TRAPS, AND ROCK CHECK DAMS.	BEGIN MINOR CLEARING AND GRADING AS NEEDED FOR INSTALLATION PERIMETER EROSION CONTROL BMPS.					
		6	ROCK CHECK DAMS PER THE INITIAL LAND DISTURBANCE PHASE STORMWATER	INSTALL ALL PERIMETER EROSION CONTROL BMPS PRIOR TO ANY MAJOR CLEARING AND GRADING ACTIVITIES. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.					
		7	ESTABLISH RUNOFF CONTROLS - DIVERSIONS, PERIMETER DIKES, AND OUTLET PROTECTION PER THE INITIAL LAND DISTURBANCE PHASE STORMWATER MANAGEMENT PLAN.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.					
IOT OF AODONIVA	AO FOR OFRINAENT AND FROMON CONT	201	CONSTRUCTION PHASE						
ST OF ACRONYIV	IS FOR SEDIMENT AND EROSION CONT	8 8	CONSTRUCTION AND INSTALLATION OF POND 'A' OUTFALL AND PIPING.	MAINTAIN STORM-WATER FLOW FROM ADJACENT EXISTING OUTFALL STRUCTURE.					
OFFICIALS	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS		THE STORMWATER BASINS ARE TO BE CONSTRUCTIED PRIOR TO OTHER SITE ITEMS.	BEGIN EXCAVATION AND SHAPING OF THE STORMWATER BASINS AFTER RUNOFF CONTROLS HAVE BEEN INSTALLED.					
MD ACRYLAMIDE P M BONDED FIBER	R MATRIX	10	, , ,	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.					
CUBIC FEET PE CORRUGATED	BEST MANAGEMENT PRACTICE(S) CUBIC FEET PER SECOND CORRUGATED METAL PIPE DEPARTMENT OF HEATH AND ENVIRONMENTAL CONTROL		INSTALL RUNOFF CONVEYANCE SYSTEM - INSTALL STORM DRAINS, STABILIZE BANKS AND CHANNELS. INSTALL STORM DRAIN INLET PROTECTION AS SOON AS INLET IS INSTALLED. INSTALL IN THE EXISTING DITCH FIRST BEFORE OTHER AREAS.	WHERE NECESSARY, STABILIZE BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING. DIRECT ALL TRENCHING AND OTHER DEWATERING OPERATIONS THROUGH A DEWATERING BAG OR SIMILAR BMP PRIOR DISCHARGING. OUTFALL DITHC OR PIPING TO BE IN OPERATION.					
EB EROSION CONT		12	CONSTRUCTION AND INSTALLATION OF THE UNDERGROUND DETENTION SYSTEM AND CONNECTION TO EXISTING GRATE INLET BOX.	CONNECTION OF UNDERGROUND DETENTION SYSTEM TO EXISTING BOX IS TO OCCUONLY AFTER OUTFALL PATHWAY TO POND 'A' IS COMPLETED.					
SC EROSION PREV	S ENVIRONMENTAL PROTECTION AGENCY VENTION AND SEDIMENTATION CONTROL S FOOD AND DRUG ADMINISTRATION	13	SYSTEMS.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE. DIRECT ALL TRENCH AND OTHER DEWATERING OPERATIONS THROUGH A DEWATERING BAG OR SIMIL BMP PRIOR TO DISCHARGING.					
FLEXIBLE GROV PPE HIGH DENSITY	WTH MATRIX POLYETHYLENE	14	INITIATE BUILDING CONSTRUCTION AS MARKET CONDITIONS DICTATE- CONNECT UTILITY SERVICE, INSTALL DRIVEWAY, CONSTRUCT BUILDINGS, ETC.	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES PER OS-SWPPP.					
MUNICIPAL SER	PARATE STORM SEWER SYSTEM	15	SURFACE STABILIZATION -TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY OF DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.					
	ETY DATA SHEETS LUTANT DISCHARGE ELIMINATION SYSTEM	16	AS PERVIOUS PAVEMENTS ARE INSTALLED, CHANGE INLET PROTECITON OT TYPE G.	INSTALL SEDIMENT CONTROL BMPS AS THE INLET BOXES BECOME AVAILABLE ON A BOX BY BOX PROCESS.					
1 POLYACRYLAM	MIDE OR POLYMER		STABILIZATION PHASE						
	REINFORCED CONCRETE PIPE		LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS,	STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AN					
S SOIL CONSERV	/ATION SERVICE	18	PERMANENT SEEDING, MULCHING, SODDING, RIP RAP. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL BMPS AS ADJACENT AREAS	STABILIZE ALL TEMPORARY CONTROL MEASURES. REMOVE SEDIMENT AND EROSION CONTROL BMPS ON A CASE BY CASE BASINS AN					
PPP STORMWATER	POLLUTION PREVENTION PROGRAM		ARE STABILIZED.	ONLY AFTER ALL UPSTREAM CONTRIBUTING AREA IS STABILZED.					
RM TURF REINFOR	CEMENT MAT	19		ONCE ALL AREAS HAVE BEEN STABILIZED, REMOVE SEDIMENT DEPOSITS AND PERFO					
FS VEGETATED FIL	LTER STRIP			FINAL STABILIZATION FOR ALL DRY INFILTRATION PONDS					

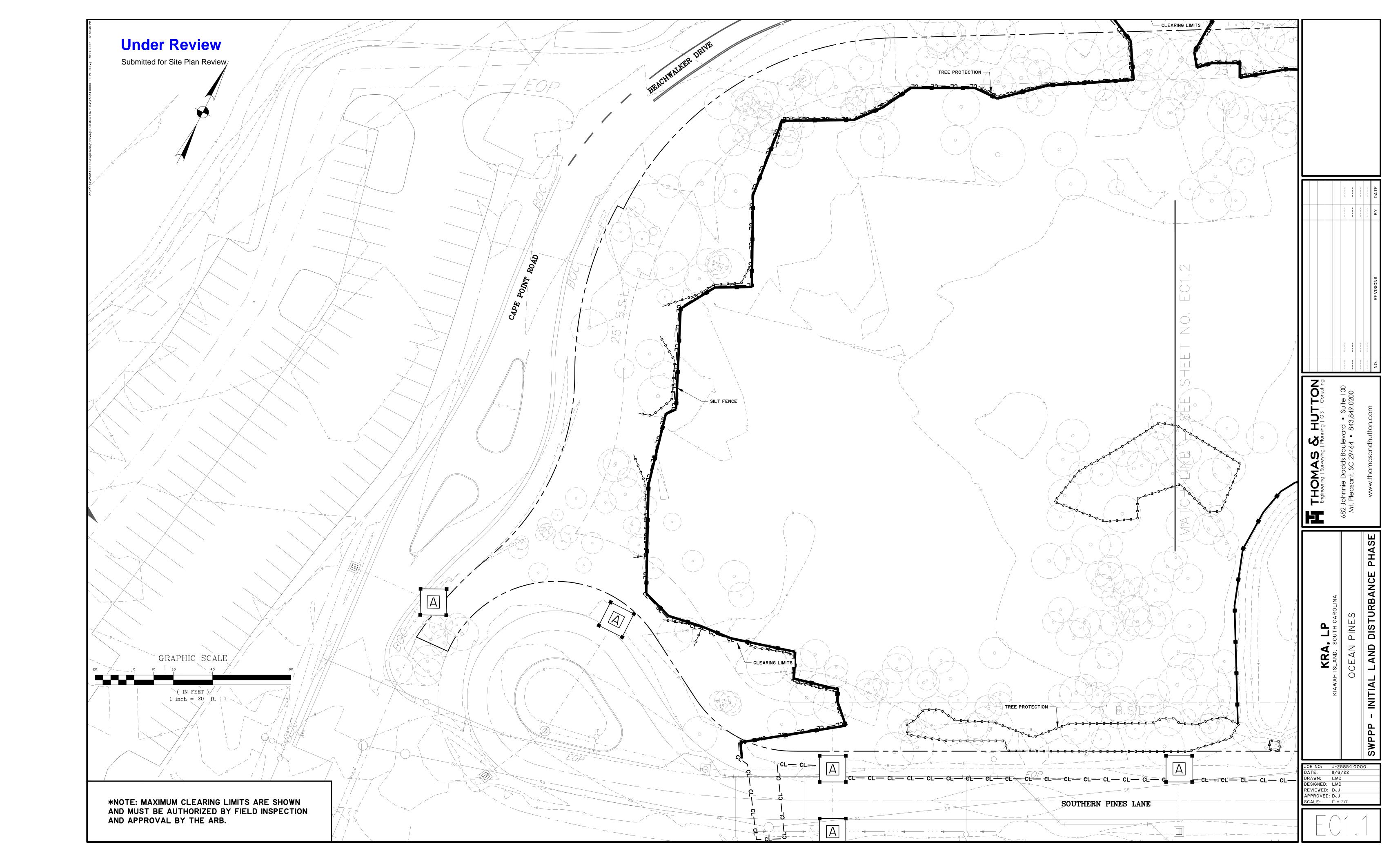


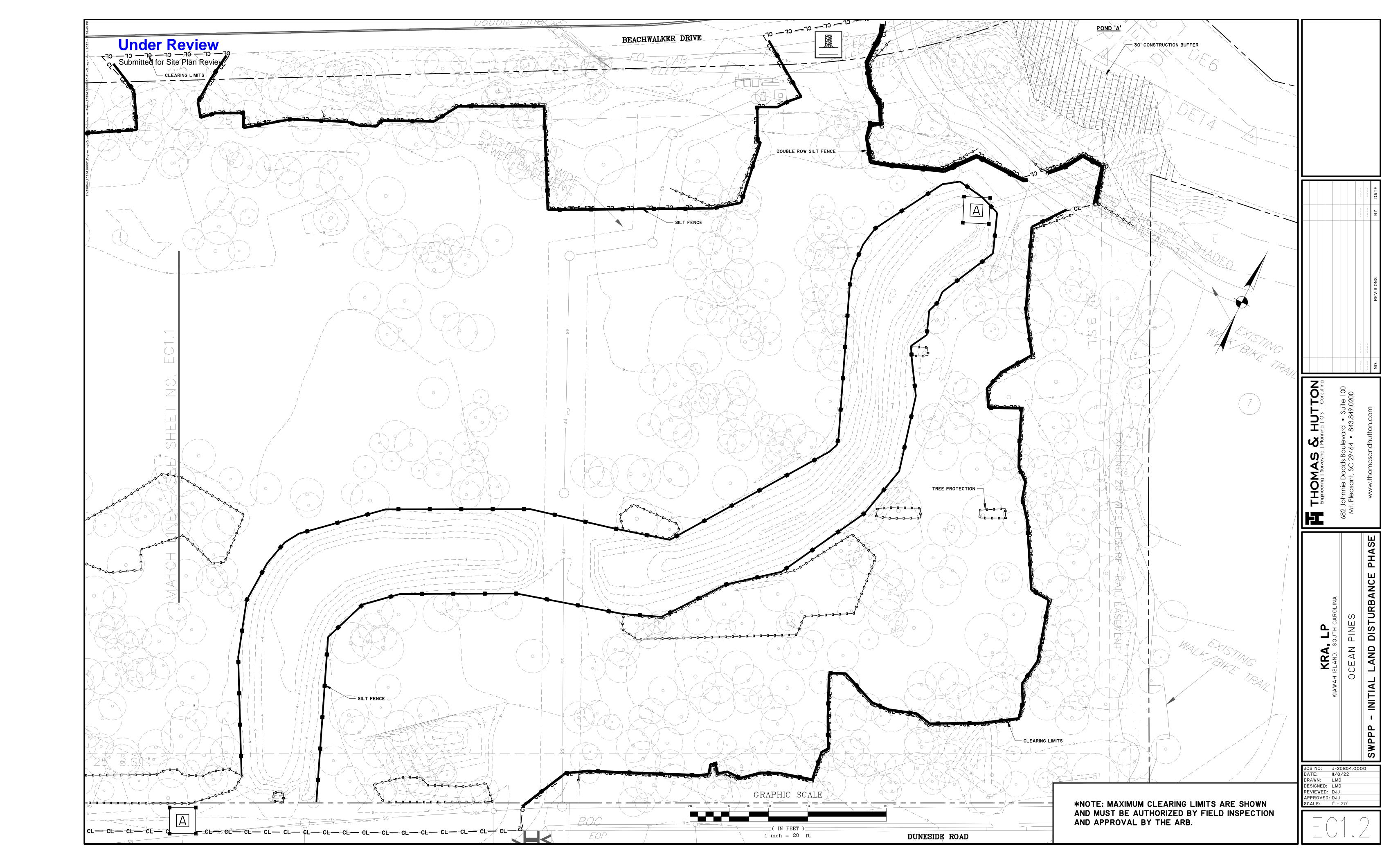


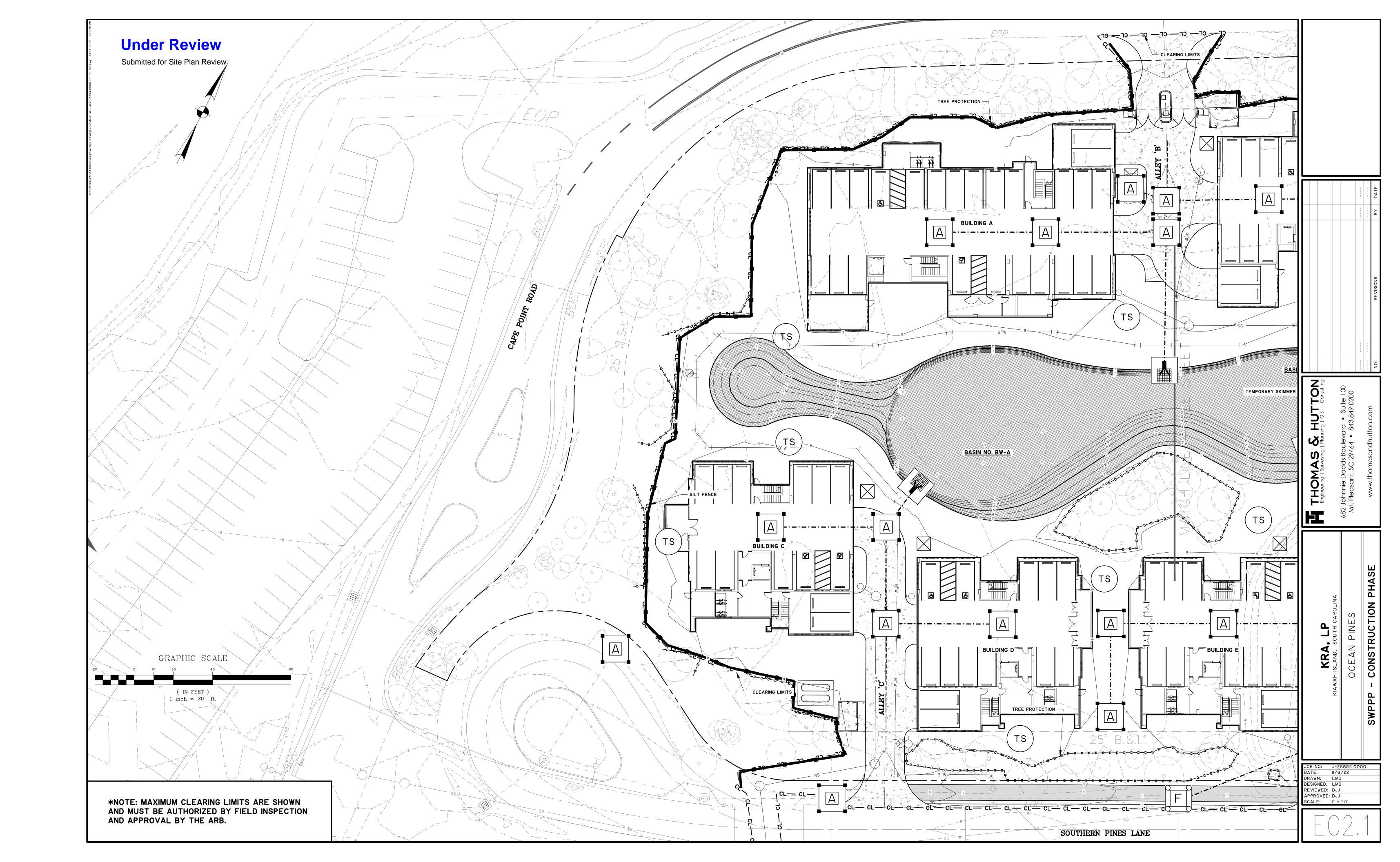
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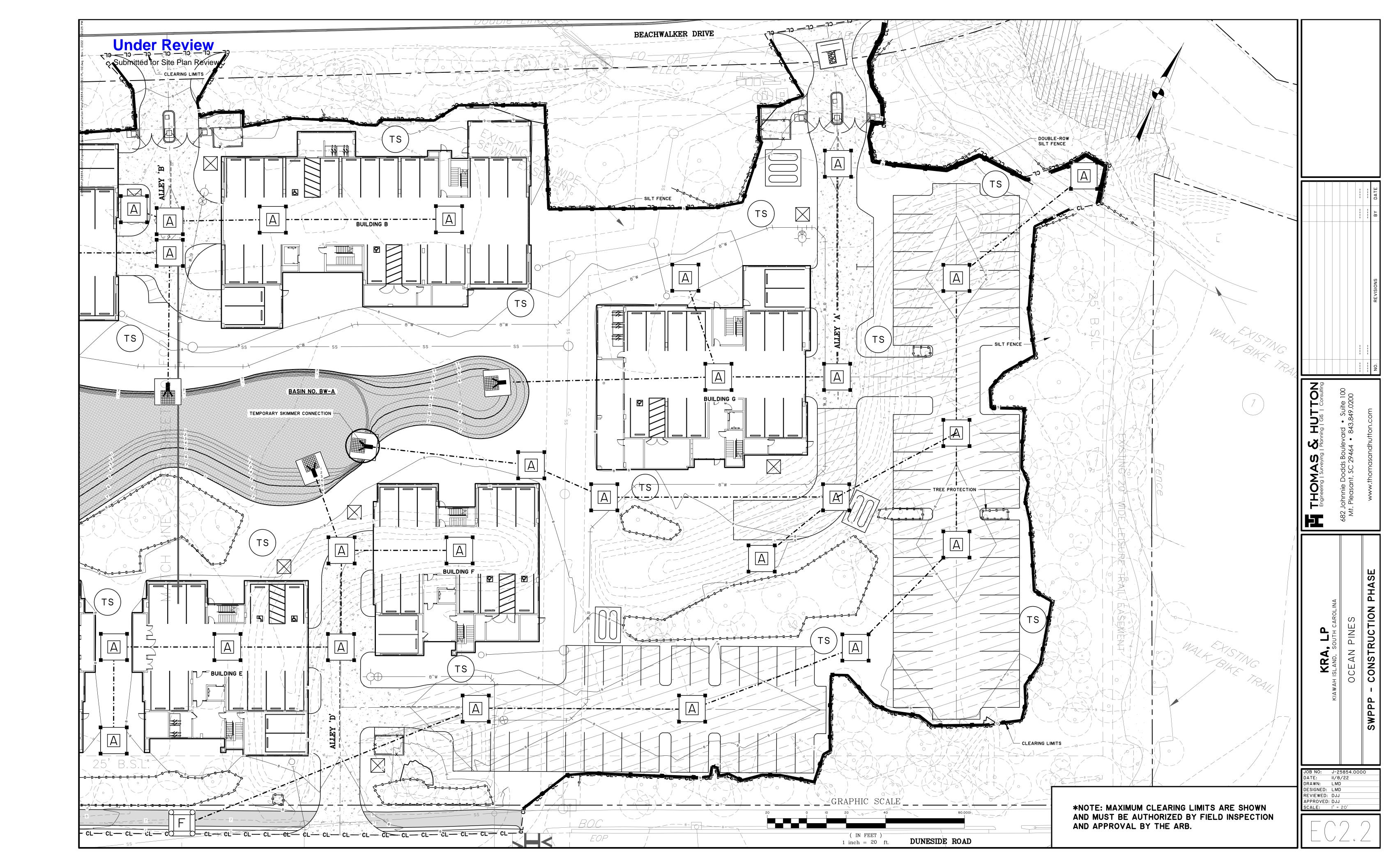
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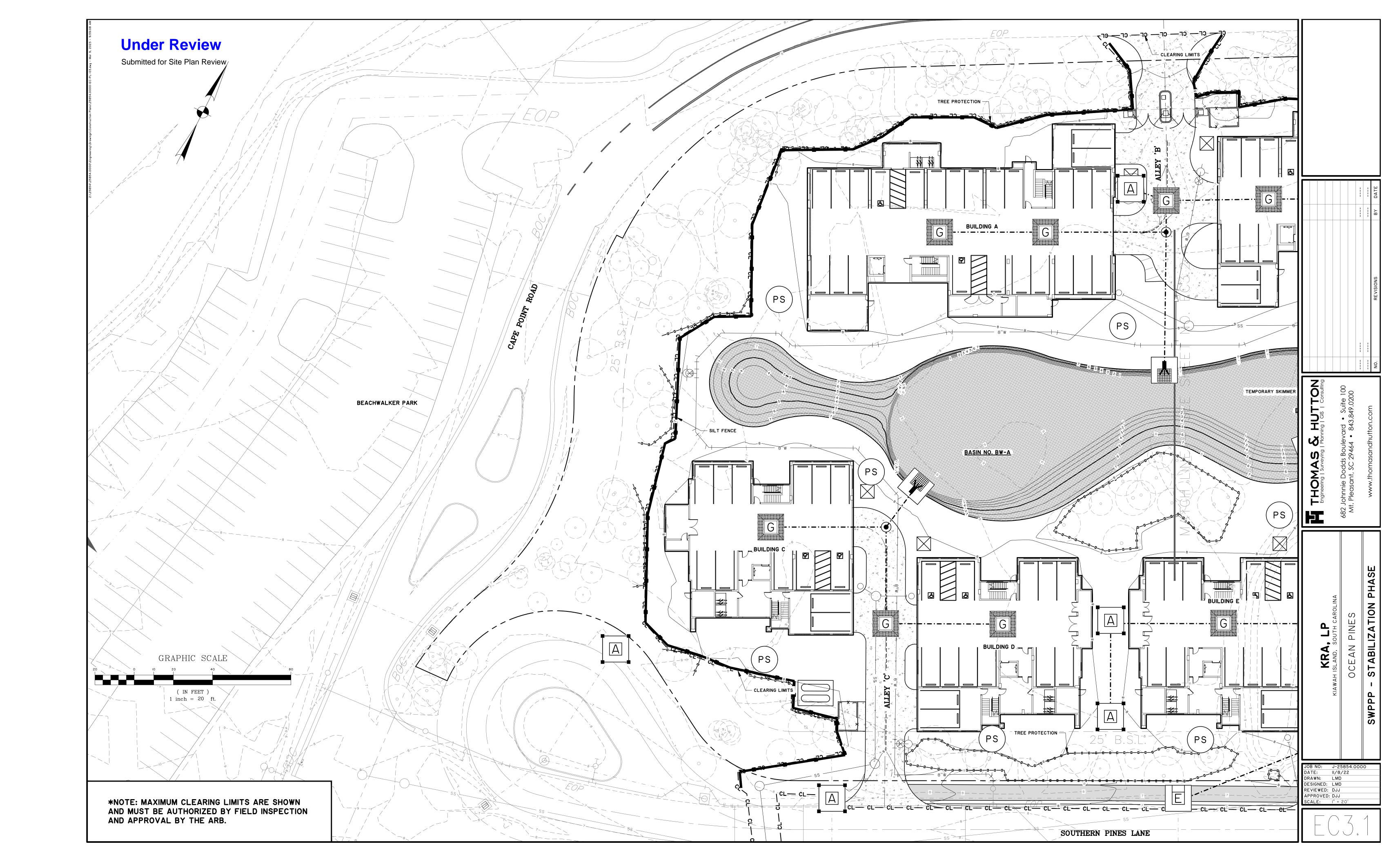
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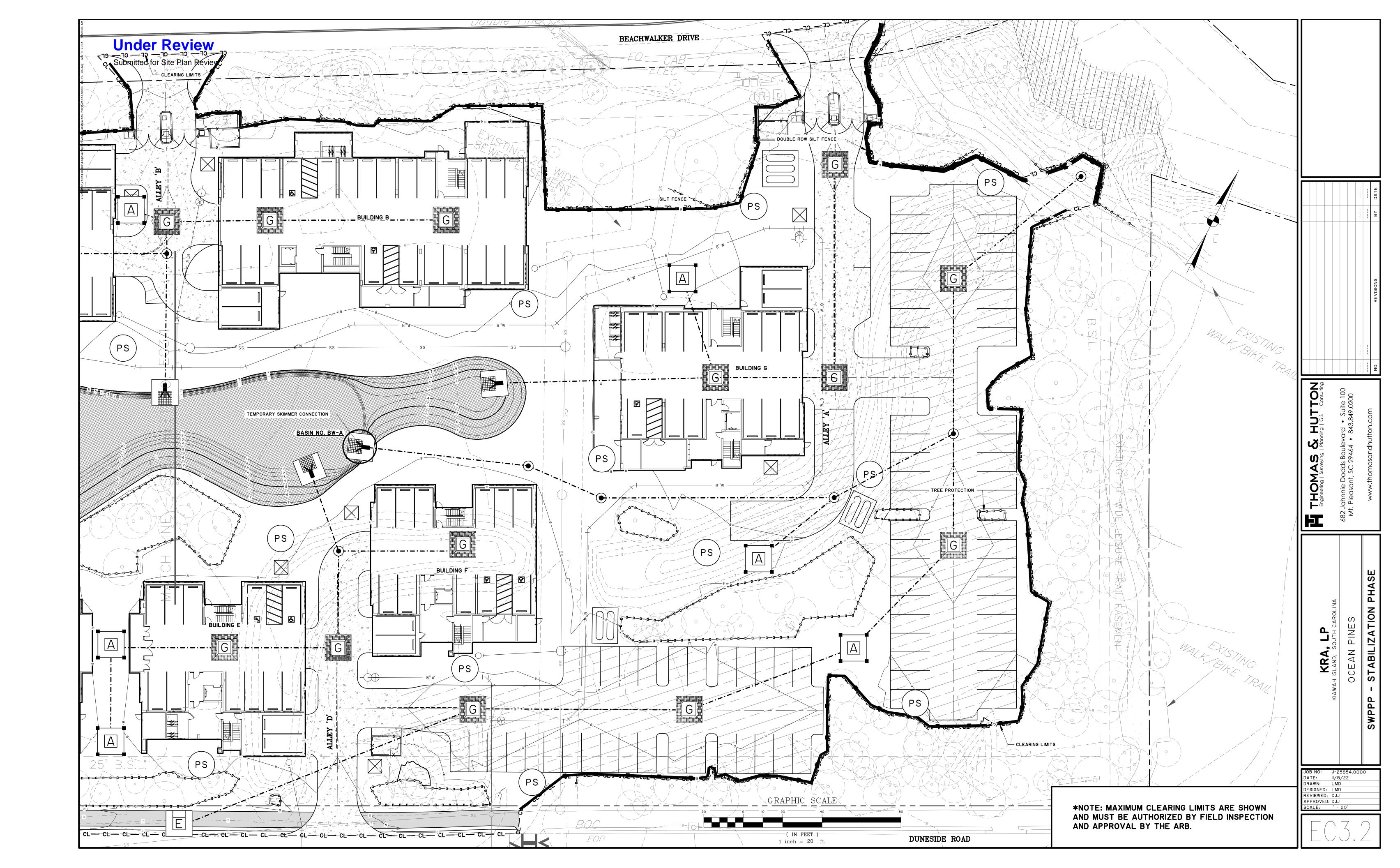


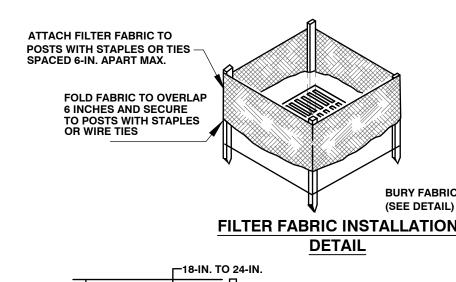


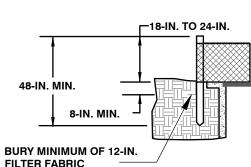












FILTER FABRIC BURIAL DETAIL

USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:

BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50.000 PSI. HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.

WEIGH 1.25 POUNDS PER FOOT (± 8%).

BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (±8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3-FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

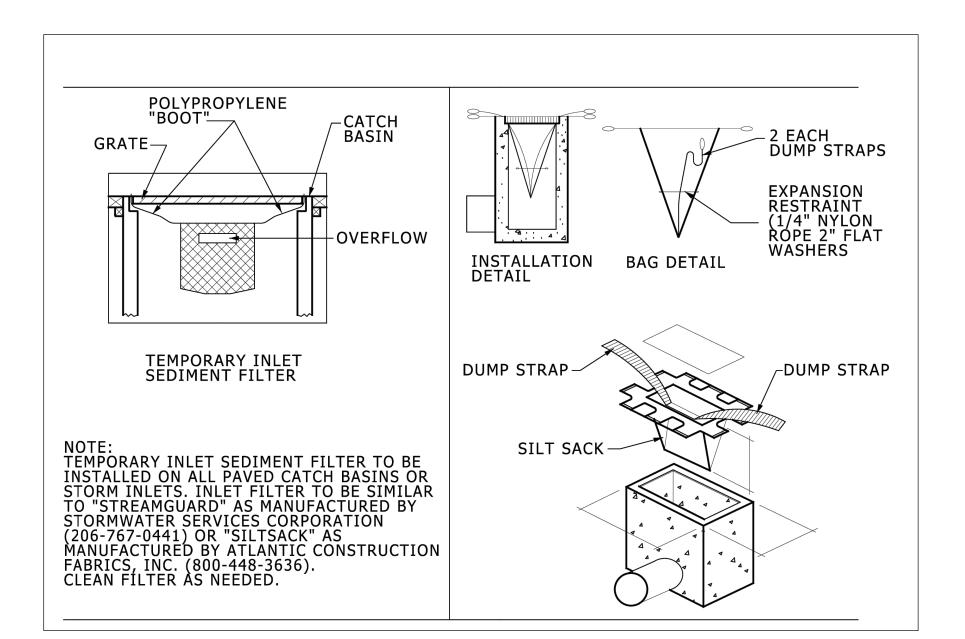
INSPECTION AND MAINTENANCE:

SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

FILTER FABRIC INLET PROTECTION (TYPE A)

NOT TO SCALE





SILT SAC DETAIL

NOT TO SCALE

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS ACRYLAMIDE POLYMER

BFM **BONDED FIBER MATRIX** BMP(S) BEST MANAGEMENT PRACTICE(S)

AMD

CFS **CUBIC FEET PER SECOND** CMP CORRUGATED METAL PIPE

DHEC DEPARTMENT OF HEATH AND ENVIRONMENTAL CONTROL ECB **EROSION CONTROL BLANKET** EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

EPSC EROSION PREVENTION AND SEDIMENTATION CONTROL FDA UNITED STATES FOOD AND DRUG ADMINISTRATION

FGM FLEXIBLE GROWTH MATRIX HDPE HIGH DENSITY POLYETHYLENE

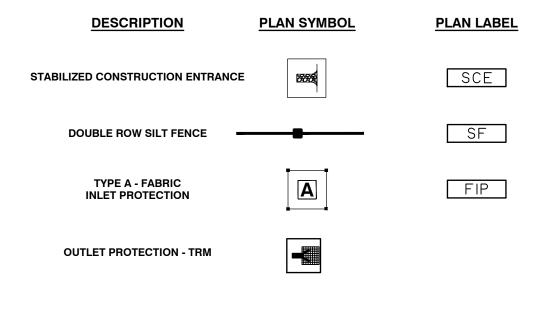
MUNICIPAL SEPARATE STORM SEWER SYSTEM MS4 MSDS MATERIAL SAFETY DATA SHEETS

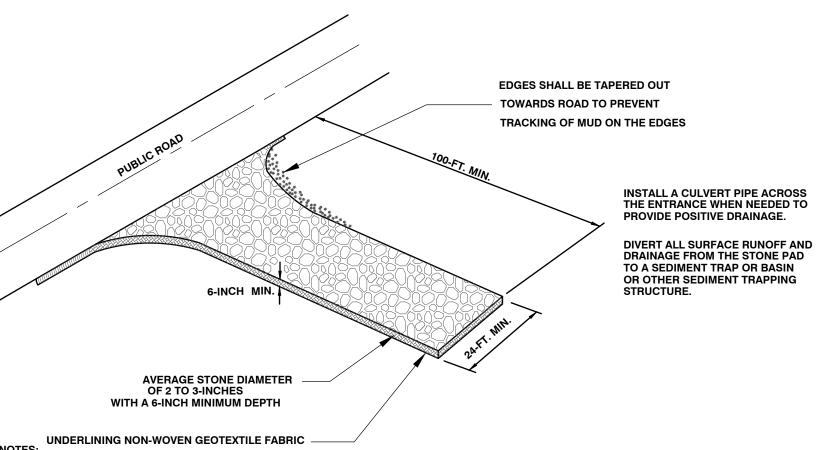
NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PAM POLYACRYLAMIDE OR POLYMER RCP REINFORCED CONCRETE PIPE

SOIL CONSERVATION SERVICE SCS STORMWATER POLLUTION PREVENTION PROGRAM SWPPP

TRM TURF REINFORCEMENT MAT VEGETATED FILTER STRIP

EROSION CONTROL SYMBOL LEGEND





WHEN AND WHERE TO USE IT:

STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND

IMPORTANT CONSIDERATIONS:

IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCOHEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.

INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.

INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.

MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.

THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:

INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

WASH OR REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES.

FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

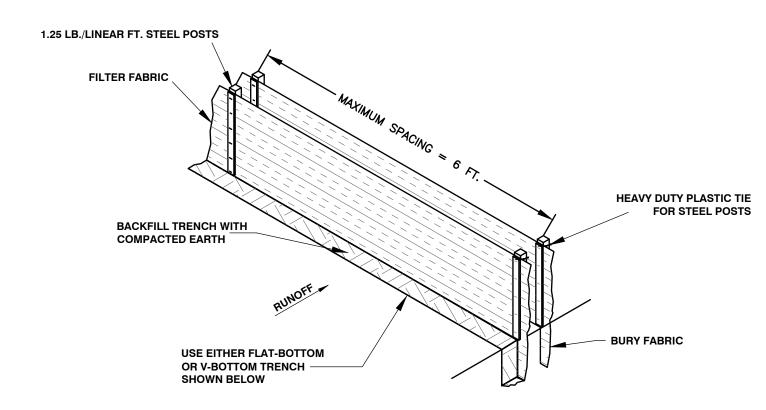
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

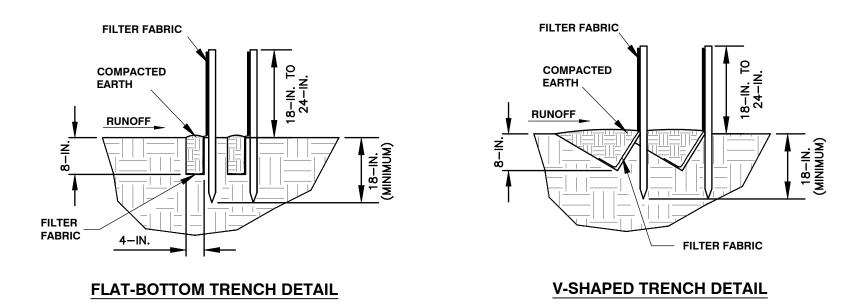
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE





SILT FENCE INSTALLATION



NOTES:

WHEN AND WHERE TO USE IT: SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET. WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V. THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.

<u>DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.</u>

MATERIALS:

STEEL POSTS

USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS: COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50.000 PSI.

HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES. WEIGH 1.25 POUNDS PER FOOT (± 8%).

HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.

THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS: BE COMPOSED OF MINIMUM 15 GAUGE STEEL.

HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

FILTER FABRIC IS:

COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES.

FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER. FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.

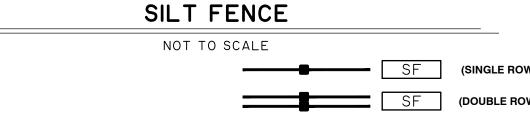
CUT TO A MINIMUM WIDTH OF 36 INCHES.

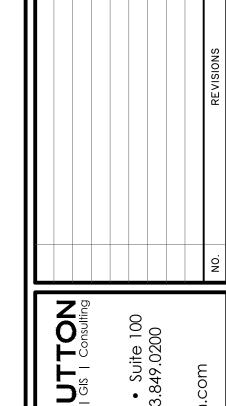
USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC. WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1-1/2-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6-FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND

INSPECTION AND MAINTENANCE

INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE. REPLACE THE SECTION OF FENCE IMMEDIATELY, REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.





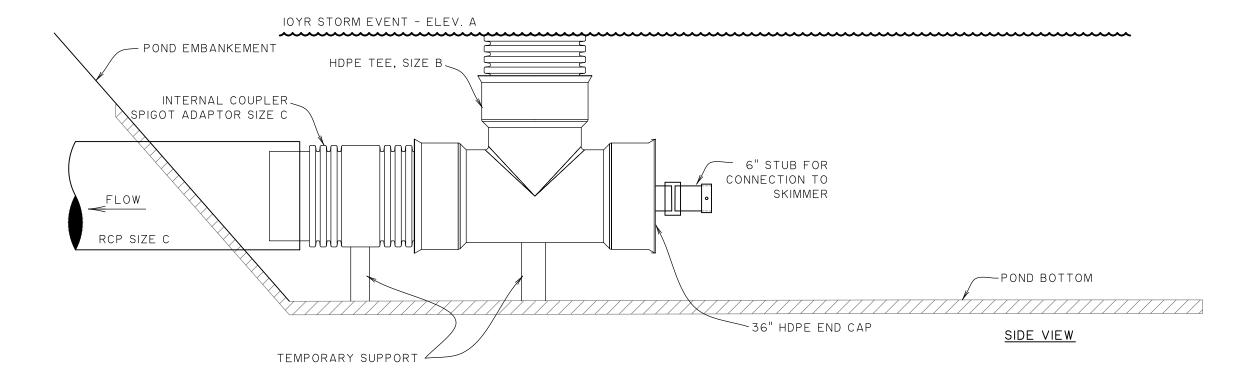
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Under Review

Submitted for Site Plan Review



POND NUMBER	POND OUTLET PIPE INVERT	А	В	С	SKIMMER SIZE	DEWATERING TIME
BW-A	1.0'	5.68	36" X 36"	36"	6"	3 DAYS

SKIMMER TEMPORARY CONNECTION DETAIL

NOT TO SCALE

NOTE: FLOAT SKIMMER AND HDPE TEE CONNECTION TO BE REMOVED AFTER FINAL STABILIZATION

SKIMMER MAINTENANCE

WARNING! THE SKIMMER IS MADE TO WITHSTAND NORMAL HANDLING AND THE FILLING AND DRAINING OF THE SEDIMENT BASIN BUT IT CANNOT WITHSTAND BEING YANKED AROUND A BACKHOE. USE THE ROPE TO CAREFULLY, MANUALLY POSITION THE SKIMMER OR MOVE IT OUT OF THE WAY OF HEAVY EQUIPMENT FOR EXCAVATION.

SEDIMENT REMOVAL

EROSION CONTROL (TEMPORARY AND PERMANENT STABILIZATION) AND CONTROLLING RUNOFF WITHIN THE CATCHMENT IS ESSENTIAL TO PREVENT SEDIMENT GENERATION, PREVENT POLLUTION, AND REDUCE BASIN MAINTENANCE. WHEN THE SEDIMENT STORAGE IN THE BASINS FILLS MAINTENANCE IS REQUIRED TO RESTORE THE TREATMENT VOLUME IN ORDER TO MAINTAIN BASIN EFFICIENCY.

SEDIMENT REMOVAL IS NEEDED BEFORE SEDIMENT ACCUMULATES UP TO THE CREST OF THE WEIR IN THE FIRST BAFFLE.

EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN TO RESTORE THE ORIGINAL SEDIMENT STORAGE VOLUME.

WHEN SEDIMENT ACCUMULATES AROUND THE SKIMMER TO THE POINT IT CANNOT SETTLE LOW ENOUGH TO DRAIN THE ENTIRE BASIN SEDIMENT REMOVAL IS REQUIRED.

PULL THE SKIMMER TO ONE SIDE SO THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED.

EXCAVATE THE ENTIRE CELL FORMED BY THE BAFFLE, NOT JUST AROUND THE SKIMMER.

BAFFLES

MAKE REPAIRS IF DAMAGED, THE POSTS ARE LAID OVER, WATER IS FLOWING UNDERNEATH, OR THE FABRIC HAS FALLEN. IF WATER OR SEDIMENT IS ESCAPING AROUND THE ENDS TIE THE ENDS INTO THE SIDE OF THE BASIN.

SKIMMED

SKIMMER
TRASH. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY A FEW JERKS ON THE ROPE TO MAKE THE SKIMMER BOB UP AND DOWN WILL DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK PULL THE SKIMMER OVER TO THE SIDE (IT'S EASIEST TO DO WHEN THE

BASIN IS PARTIALLY FULL) AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

SEDIMENT UNDER THE SKIMMER. IF SEDIMENT ACCUMULATES TO THE POINT THE SKIMMER CANNOT SETTLE LOW ENOUGH TO DRAIN THE ENTIRE BASIN PULL
THE SKIMMER OVER TO ONE SIDE AND EXCAVATE THE SEDIMENT WITH A BACKHOE.

CLOGGED BARREL OR PIPE THROUGH THE DAM. IF THE SKIMMER IS CLOGGED DESPITE REMOVING DEBRIS AND IT APPEARS THAT EITHER THE BARREL BETWEEN THE ORIFICE AND THE FLEXIBLE JOINT OR THE PIPE THROUGH THE DAM IS CLOGGED TAKE THE FOLLOWING STEPS TO CLEAR THE BLOCKAGE (SEDIMENT WILL SOMETIMES ACCUMULATE IN THE PIPE).

PULL THE SKIMMER OVER TO THE SIDE.

REMOVE THE PIN AND OPEN THE DOOR TO ACCESS THE ORIFICE.

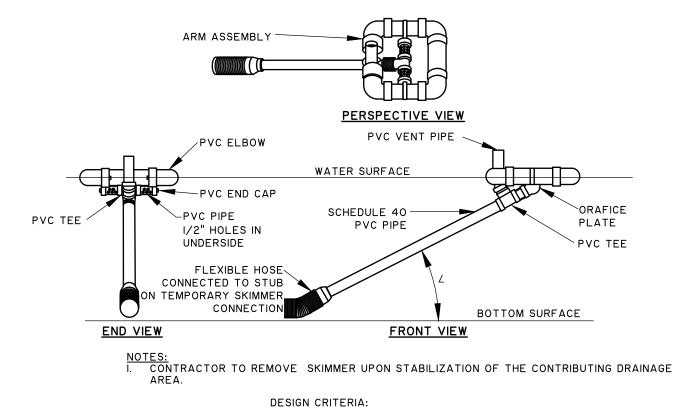
REMOVE THE ORIFICE PLUG OR CAP.

RAISE THE INLET AS HIGH AS PRACTICAL.

FILL THE BARREL WITH WATER (USE A BUCKET AND FUNNEL OR A PUMP) TO REMOVE THE CLOG USING THE WATER AND PRESSURE.

AFTER THE OBSTRUCTION IS REMOVED CONTINUE POURING WATER INTO THE BARREL TO FLUSH OUT ACCUMULATED DEBRIS AND SEDIMENT TO PREVENT FUTURE CLOGGING.

A PLUMBERS SNAKE CAN BE USED BUT FLUSHING OUT THE SEDIMENT AND DEBRIS ACCUMULATION IS RECOMMENDED FIRST.



POND SKIMMER ORFICE SIZE (IN) SADDLE

BW-A 6 N/A

SKIMMER DETAIL

NOT TO SCALE

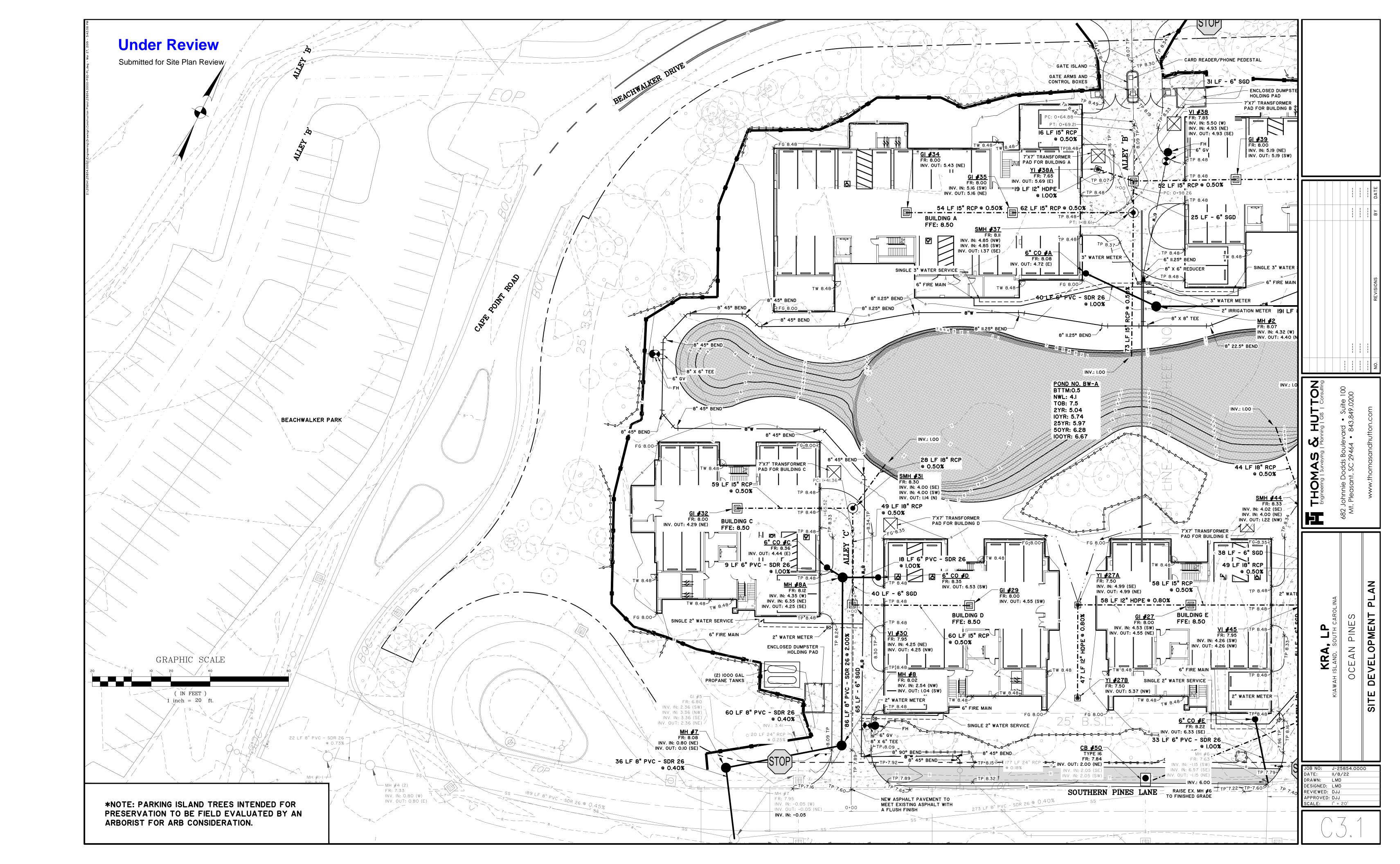
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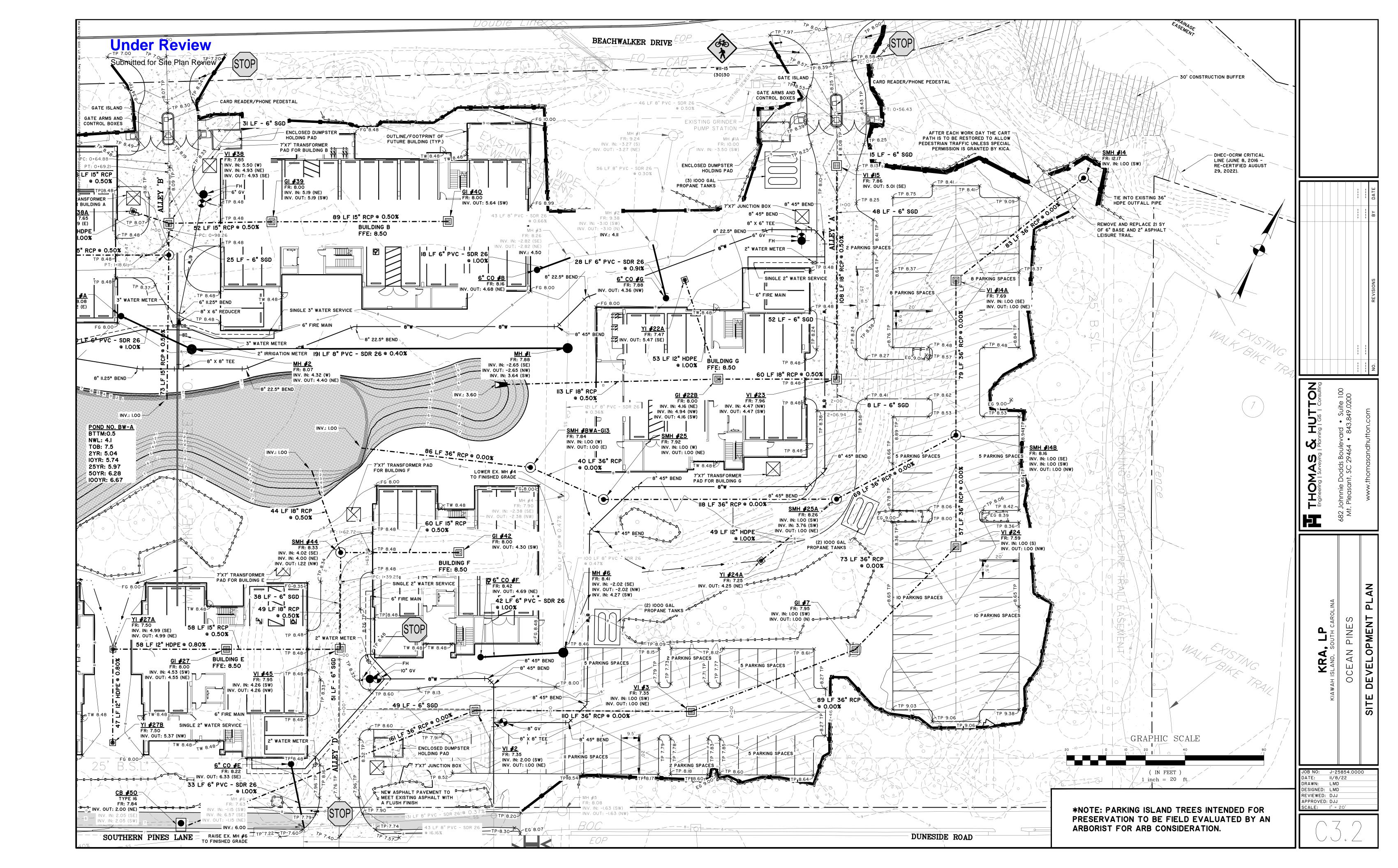
Engineering | Surveying | Planning | GIS | Consulting | Suite | Consulting | Suite | Consulting | Suite | Suite | Suite | Mt. Pleasant, SC 29464 • 843.849.0200

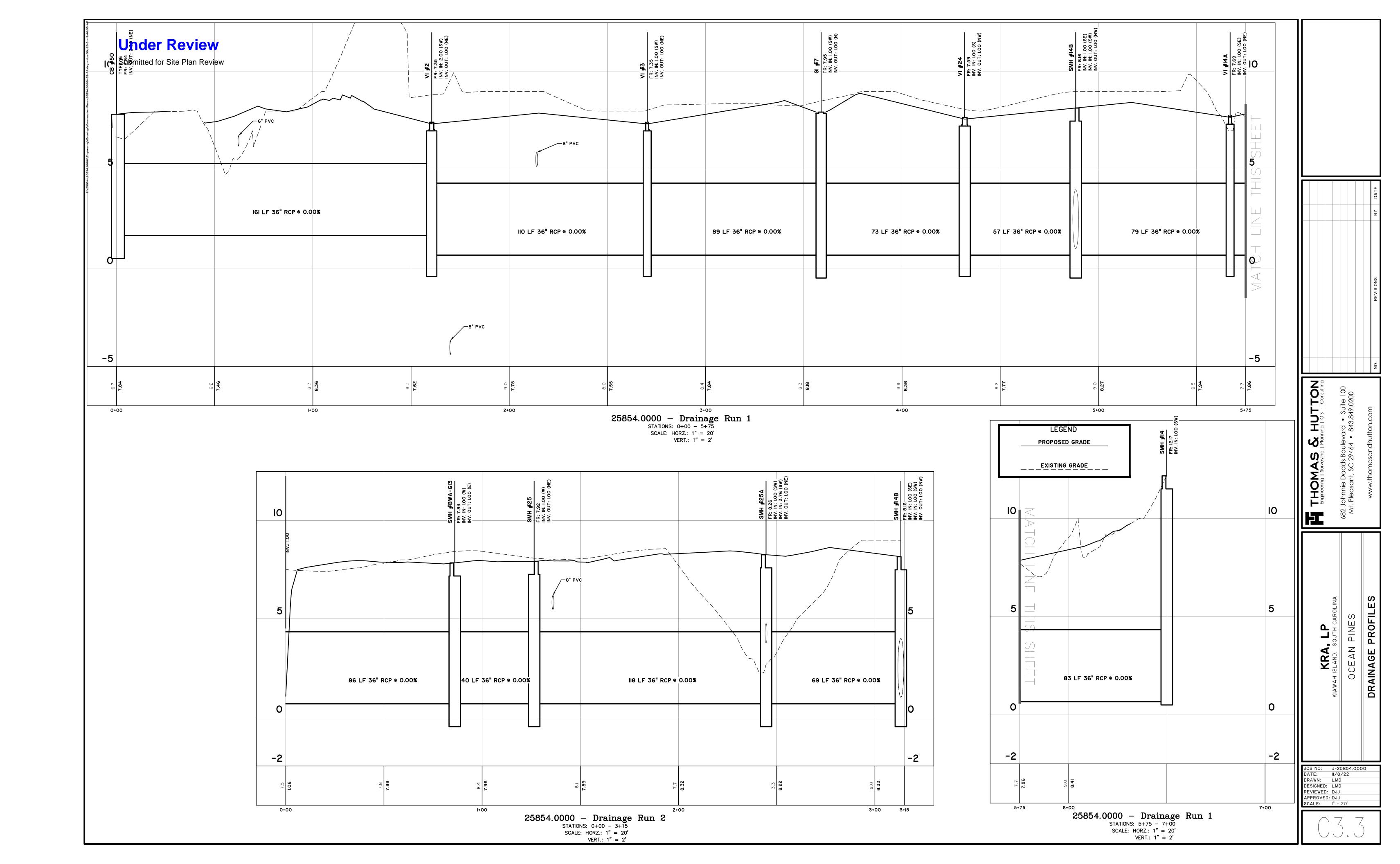
JCEAN PINES

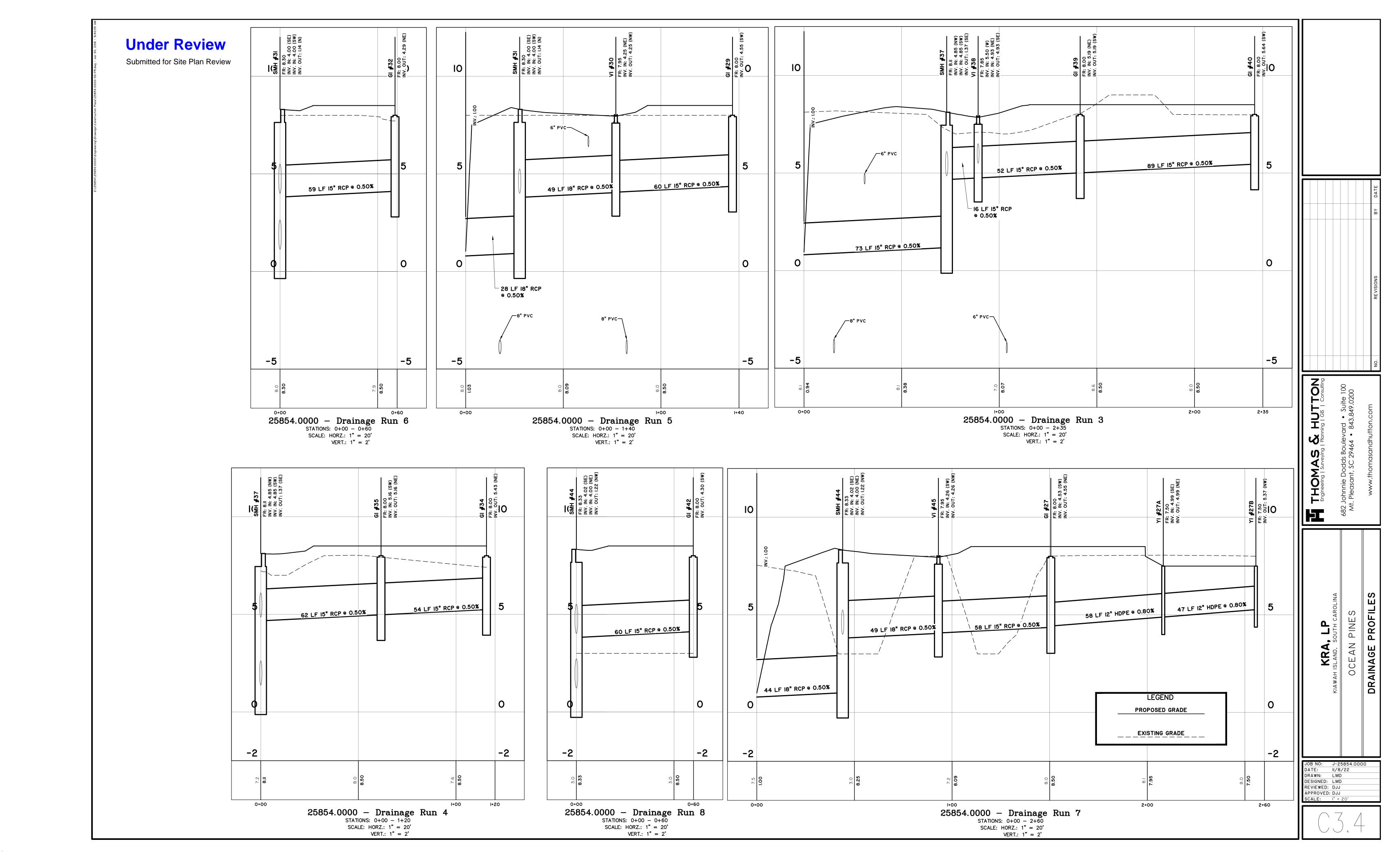
JOB NO: J-25854.0000
DATE: II/8/22
DRAWN: LMD
DESIGNED: LMD
REVIEWED: DJJ
APPROVED: DJJ
SCALE: NOT TO SCALE

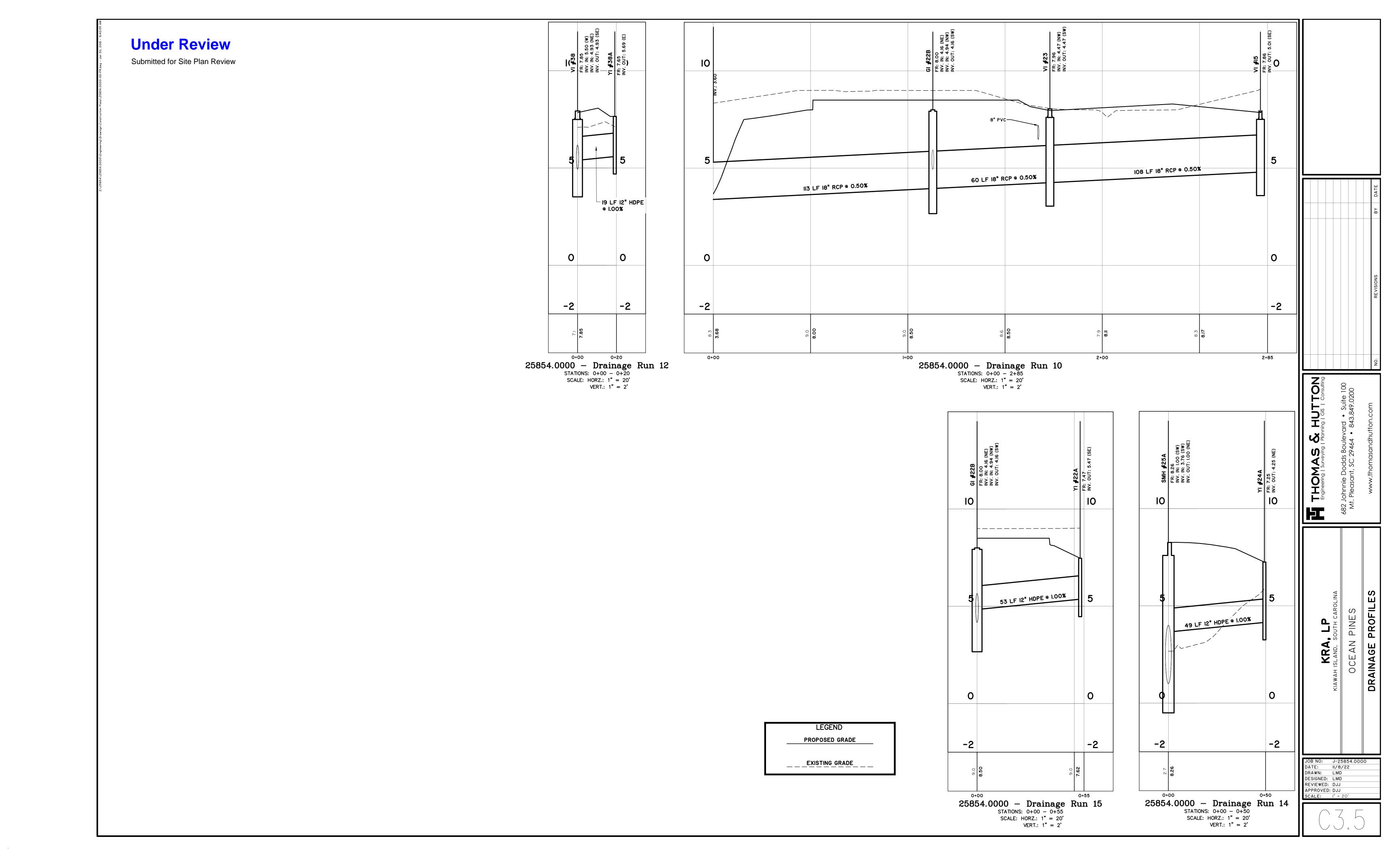










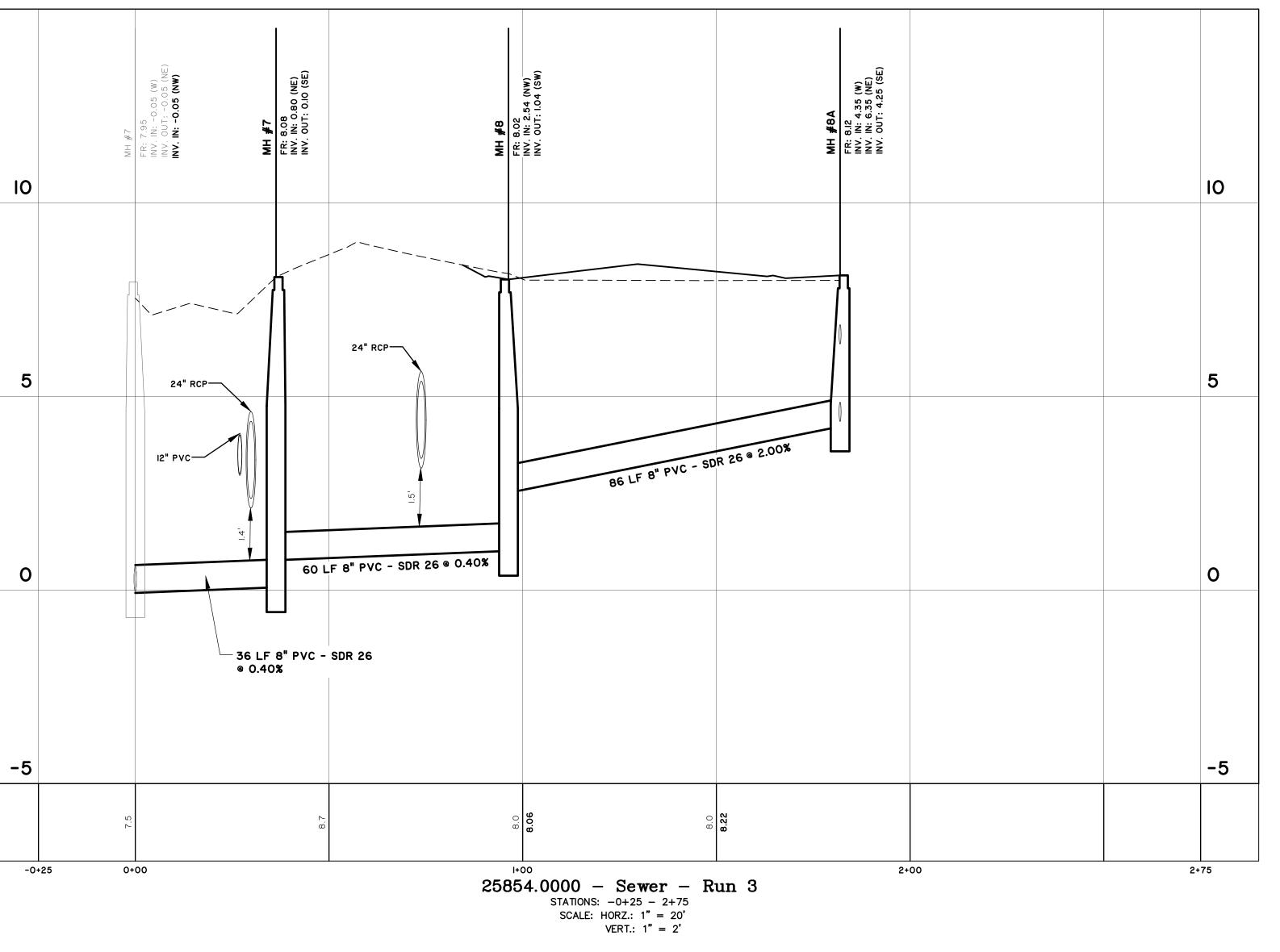


Under Review Submitted for Site Plan Review 10 10 191 LF 8" PVC - SDR 26 @ 0.40% 25854.0000 - Sewer - Run 1 STATIONS: -0+25 - 2+55 SCALE: HORZ.: 1" = 20' VERT.: 1" = 2' LEGEND PROPOSED GRADE ___EXISTING GRADE____

KRA, LP
KIAWAH ISLAND, SOUTH CAROLINA
OCEAN PINES
SEWER PROFILES JOB NO: J-25854.0000
DATE: II/8/22
DRAWN: LMD
DESIGNED: LMD
REVIEWED: DJJ
APPROVED: DJJ
SCALE: I" = 20'

C3.6

Under Review Submitted for Site Plan Review [K



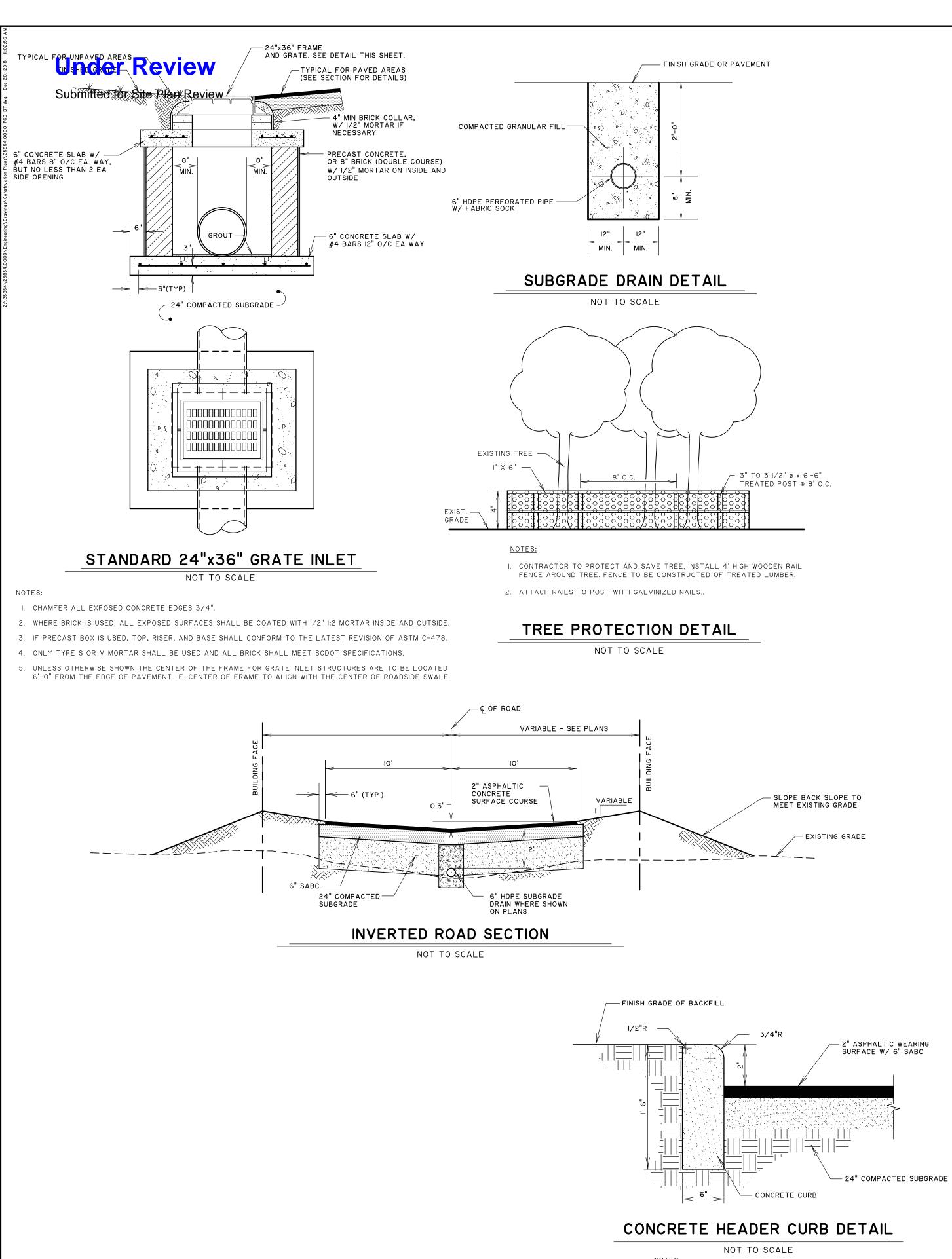
LEGEND

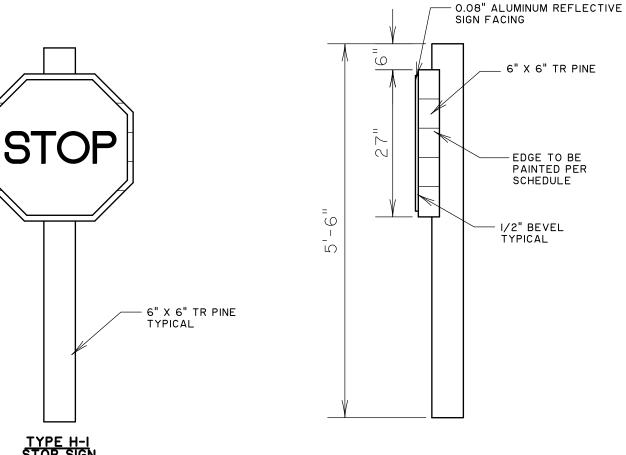
PROPOSED GRADE

EXISTING GRADE

OMAS & HUTTON sering | Surveying | Planning | GIS | Consulting KRA, LP
KIAWAH ISLAND, SOUTH CAROLINA
OCEAN PINES
SEWER PROFILES

JOB NO: J-25854.0000
DATE: II/8/22
DRAWN: LMD
DESIGNED: LMD
REVIEWED: DJJ
APPROVED: DJJ
SCALE: I" = 20'





2. PRIMARY MATERIAL FOR THE SIGN POST AND FACE SHOULD BE 6" X 6" TREATED YELLOW PINE. OVERALL POST LENGTH IS 9'-0". SPECIAL HARDWARE INCLUDES 2 1/2" COUNTERSUNK OGEE WASHERS USED ON BOLTS HOLDING THE FACE PANEL TO POST. ALL OTHER HARDWARE IS STANDARD.

3. SIGN SHAPES AND SYMBOLS SHOULD BE BASED ON STANDARDS AS USED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION AND MUTCD.

4. THE SIGN POST SHOULD BE STAINED CABOT'S CREOSOTE STAIN 0247. THE SIGN FACE FOR ALL REGULATORY SIGNS SHOULD BE 0.08 INCH ALUMINUM CONFORMING TO ASTM B 209. FINISHED SIGN SHALL BE CLEAR CUT AND THE LINES OF ALL LETTERS SHALL BE TRUE, REGULAR AND FREE OF UNEVENNESS. THE SIGN FACE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

I. USED WHEREVER VEHICULAR TRAFFIC CONTROL IS NEEDED. GUIDELINES FOR USE SHOULD BE

BASED ON SOUTH CAROLINA'S TRAFFIC LAWS AND MUTCD CURRENT ADDITIONS.

5. CARE SHOULD BE TAKEN TO MAKE SURE POSTS ARE PROPERLY TREATED TO PREVENT DECAY OR

6. THE FRONT, BACK AND EDGES OF THE SIGN BACKING SHALL BE 'PAINTED ACCORDING TO THE FOLLOWING SCHEDULE: STOP SIGN RED

TRAFFIC SIGNAGE

MINIMUM 12"

BOTTOM SLAB

STONE BEDDING

RING AND COVER

NOT SHOWN FOR CLARITY

2. TOP, RISER, AND BASE SHALL CONFORM TO THE LATEST REVISION

5. REINFORCING IN TOP SLAB, VERTICAL WALLS (RISERS), AND BOTTOM

3. USE GRADE 60 REINFORCING STEEL.4. PROVIDE AT LEAST 3 INCHES OF COVER ON REINFORCING STEEL.

STORM DRAIN MANHOLE

30" PIPE AND SMALLER

NOT TO SCALE

SLAB SHALL BE #4 BARS AT 12" O.C. EACH WAY.

6. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".

I. DO NOT USE KNOCKOUT BOXES.

NOT TO SCALE

6" SLAB

VARIES

I. ALL CONCRETE SHALL BE 3,000 PSI.

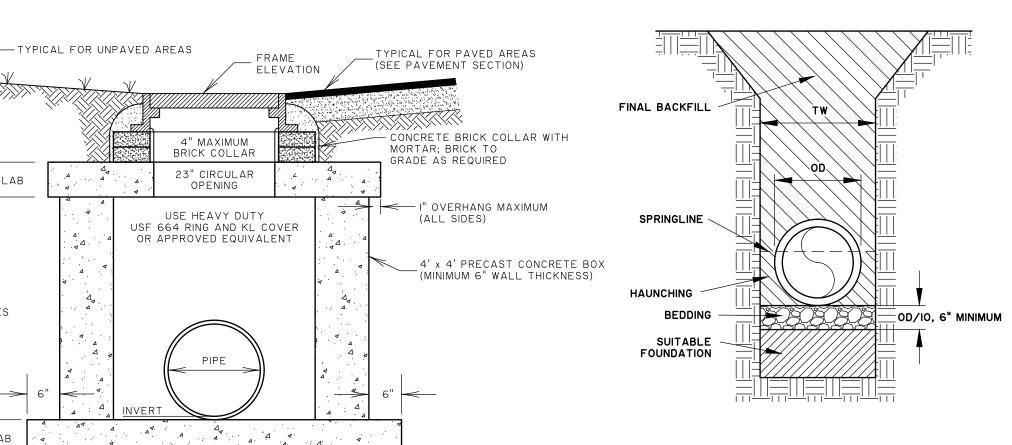
SIDEWALKS, OR OTHER STRUCTURES.

PROVIDE LIGHT BROOM FINISH.

2. PROVIDE CONTROL JOINTS EVERY TEN FEET (IO').

4. PROVIDE EXPANSION JOINT WHERE CURB ABUTS

3. PROVIDE EXPANSION JOINTS EVERY FIFTY FEET (50).



I. TW SHALL BE LESS THAN OR EQUAL TO OD + 2

FINISH GRADE OR PAVEMENT (SEE PLANS)

- COMPACTED GRANULAR BACKFILL COMPACTED TO 95% MODIFIED PROCTOR UNDER NON-PAVED AREAS

AND 98% MODIFIED PROCTOR UNDER

PAVED AREAS.

--- 2 - 4" PVC CONDUITS

ROAD CROSSING

CONDUIT DETAIL

NOT TO SCALE

2. TRENCH SHALL BE DEWATERED BEFORE BEDDING MATERIAL IS PLACED. 3. EACH JOINT SHALL BE WRAPPED WITH FILTER

4. SEE ASTM D232I, TABLE I FOR MATERIAL

CLASSIFICATIONS. 5. SEE ASTM D698 FOR COMPACTION METHOD.

MATERIAL REQUIREMENTS FOUNDATION - IF NATIVE MATERIAL IS UNSUITABLE. COORDINATE WITH ENGINEER TO DETERMINE AMOUNT OF MATERIAL TO REMOVE AND SUITABLE MATERIAL WITH WHICH TO REPLACE IT. BEDDING - CLASS IB OR CLASS II.

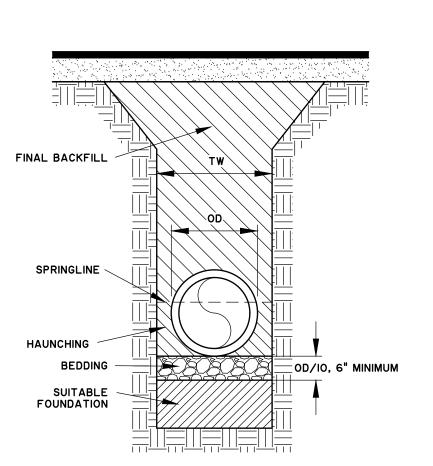
HAUNCHING - CLASS II OR CLASS III. FINAL BACKFILL - CLASS II, CLASS III, OR CLASS IVA.

COMPACTION REQUIREMENTS BEDDING - LOOSELY PLACE BEDDING UNDER MIDDLE 1/3 OF PIPE, FOR REST OF BEDDING, COMPACT CLASS IB AND CLASS II MATERIAL TO 95% HAUNCHING - COMPACT CLASS II AND CLASS III MATERIAL TO 95% IN 6" LIFTS FINAL BACKFILL - COMPACT CLASS II, CLASS III, OR CLASS

IVA MATERIAL TO 90% IN 6" LIFTS.

RCP BEDDING **UNPAVED AREAS**

NOT TO SCALE



MARKER TAPE

UNDISTURBED SOIL-

I. TW SHALL BE LESS THAN OR EQUAL TO OD + 2

2. TRENCH SHALL BE DEWATERED BEFORE BEDDING

MATERIAL IS PLACED. 3. EACH JOINT SHALL BE WRAPPED WITH FILTER

4. SEE ASTM D232I, TABLE I FOR MATERIAL CLASSIFICATIONS.

5. SEE ASTM D698 FOR COMPACTION METHOD.

MATERIAL REQUIREMENTS FOUNDATION - IF NATIVE MATERIAL IS UNSUITABLE, COORDINATE WITH ENGINEER TO DETERMINE AMOUNT OF MATERIAL TO REMOVE AND SUITABLE MATERIAL WITH WHICH TO REPLACE IT. BEDDING - CLASS IB OR CLASS II.

HAUNCHING - CLASS II OR CLASS III. FINAL BACKFILL - CLASS II OR CLASS III. COMPACTION REQUIREMENTS BEDDING - LOOSELY PLACE BEDDING UNDER MIDDLE 1/3 OF PIPE, FOR REST OF BEDDING, COMPACT CLASS IB AND CLASS II MATERIAL TO 95%

HAUNCHING - COMPACT CLASS II AND CLASS III MATERIAL TO 95% IN 6" LIFTS FINAL BACKFILL - COMPACT CLASS II OR CLASS III MATERIAL TO 95% IN 6" LIFTS

RCP BEDDING PAVED AREAS

NOT TO SCALE

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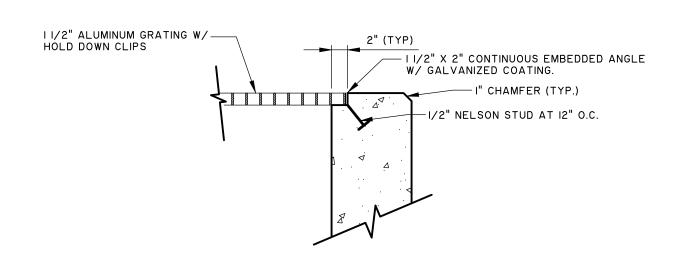
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PINE

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Submitted for Site Plan Review



BRICK COLLAR WITH

MORTAR; BRICK TO GRADE AS REQUIRED

GRATING AND EMBEDDED ANGLE DETAIL

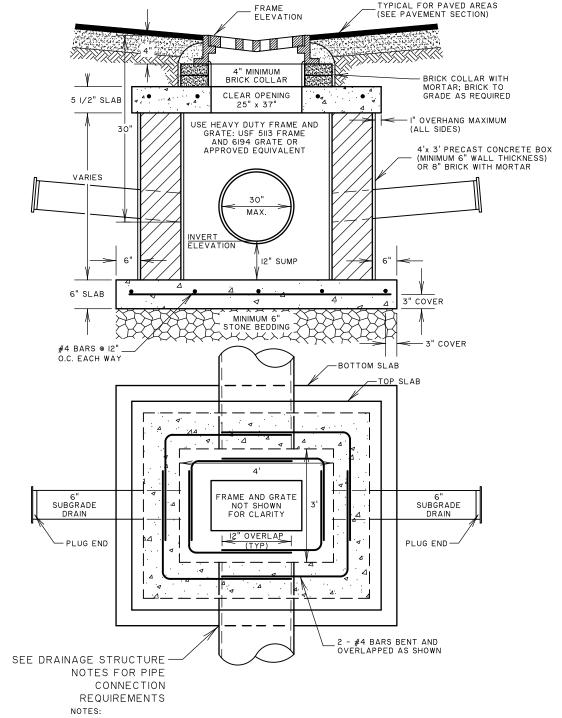
NOT TO SCALE

- I. ALL ATTACHMENT HARDWARE TO BE A-304 STAINLESS STEEL
- 2. ALUMINUM GRATING TO HAVE A MAXIMUM LIVE LOAD OF 100 PSF AND A MAXIMUM DEFLECTION OF 1/4"

GENERAL NOTES:

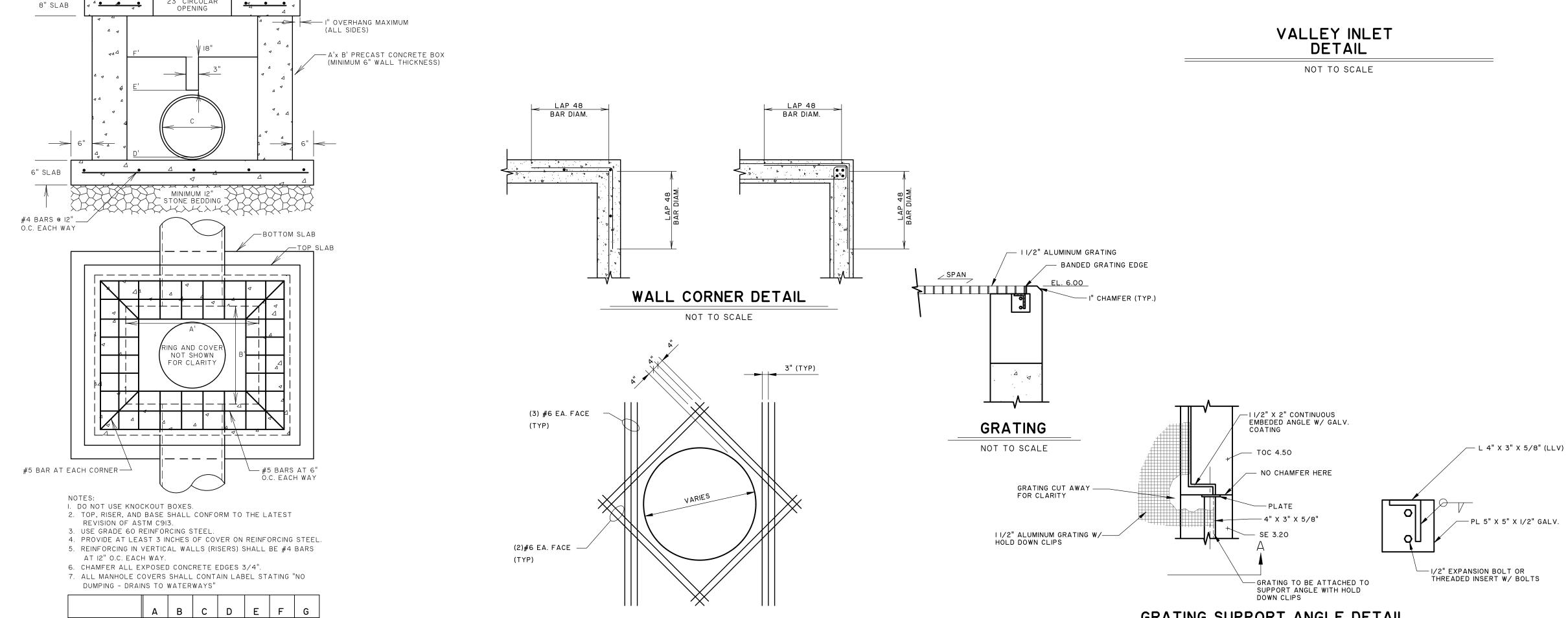
OTHERWISE.

- I. ALL ELEVATIONS SHOWN ARE BASED ON M.S.L. DATUM
- 2. ALL CAST IN PLACE CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. IN 28 DAYS UNLESS NOTED OTHERWISE.
- 3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- 4. ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO "ACI DETAILING MANUAL", ACI SP-66.
- 5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH A 45 DEGREE CHAMFER AS FOLLOWS: CONCRETE WALLS: I"
- 6. ALL BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES (20" MINIMUM LENGTH.)
- 7. SPLICE TOP BARS AND SIDE BARS AT MID-SPAN, AND BOTTOM BARS AT THE
- SUPPORT. 8. STAGGER SPLICES OF ADJACENT BARS WHEN BAR SPACING IS LESS THAN 4 1/2".
- 9. PROVIDE 3" MINIMUM OF CONCRETE COVER FOR REINFORCING STEEL WHEN THE CONCRETE IS PLACED DIRECTLY ON THE GROUND.
- IO. CONCRETE KEYS SHALL BE 2" X 4", UNLESS NOTED OTHERWISE. II. CONSTRUCTION JOINTS WILL NOT BE ALLOWED IN WALLS EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS.
- 12. ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, SLEEVES,
- ANGLES, INSERTS, PLATES, ETC. EITHER ATTACHED TO OR EMBEDDED IN THE
- CONCRETE SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE. 13. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS NOTED
- 14. ALL ALUMINUM GRATING EDGES SHALL BE BANDED.



I. ORIENT GRATE SUCH THAT 36" DIMENSION IS PARALLEL TO THE DIRECTION OF TRAFFIC FLOW. 2. FOR GRATE INLETS NOT IN PAVEMENT, INSTALL IO LF OF SUBGRADE DRAIN STUBBED OUT AND

3. USE VALLEY INLET DETAIL FOR ALL GRATE INLETS IN PAVEMENT AREA.



REGULAR WALL REINF.

SMH #BWA-GI3 4.0' 4.0' 36" 1.00' 4.00' 5.50' 7.84'

TYPICAL FOR UNPAVED AREAS

4" MAXIMUM BRICK COLLAR

23" CIRCULAR

SMH #BWA-GI3 CONTROL STRUCTURE

NOT TO SCALE

TYPICAL WALL OPENING REINFORCING

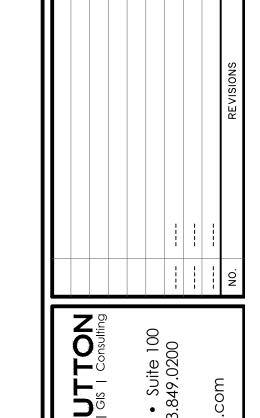
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NOT TO SCALE

I. ALL ATTACHMENT HARDWARE TO BE A-304 STAINLESS STEEL

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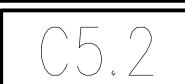


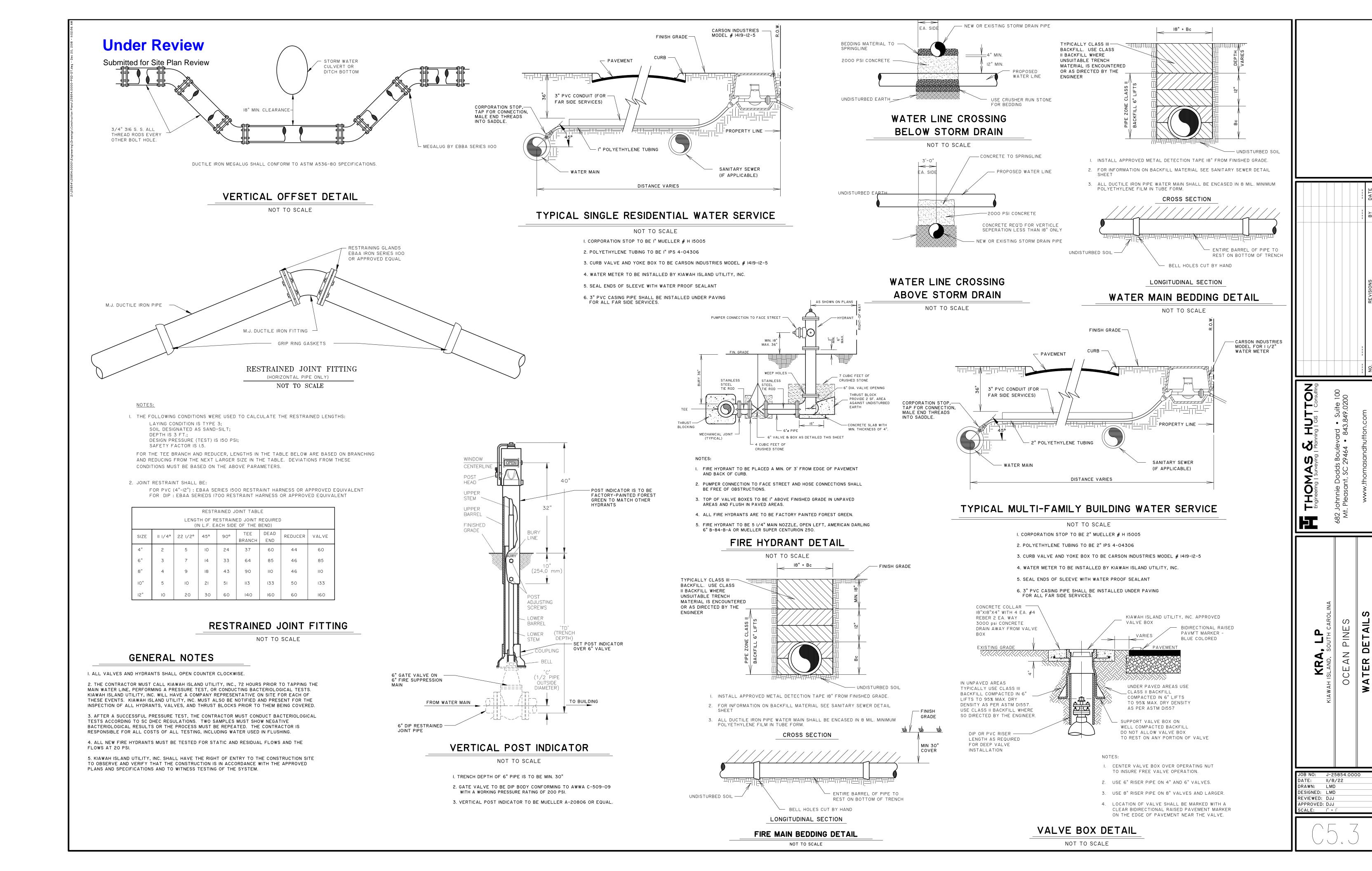
LP

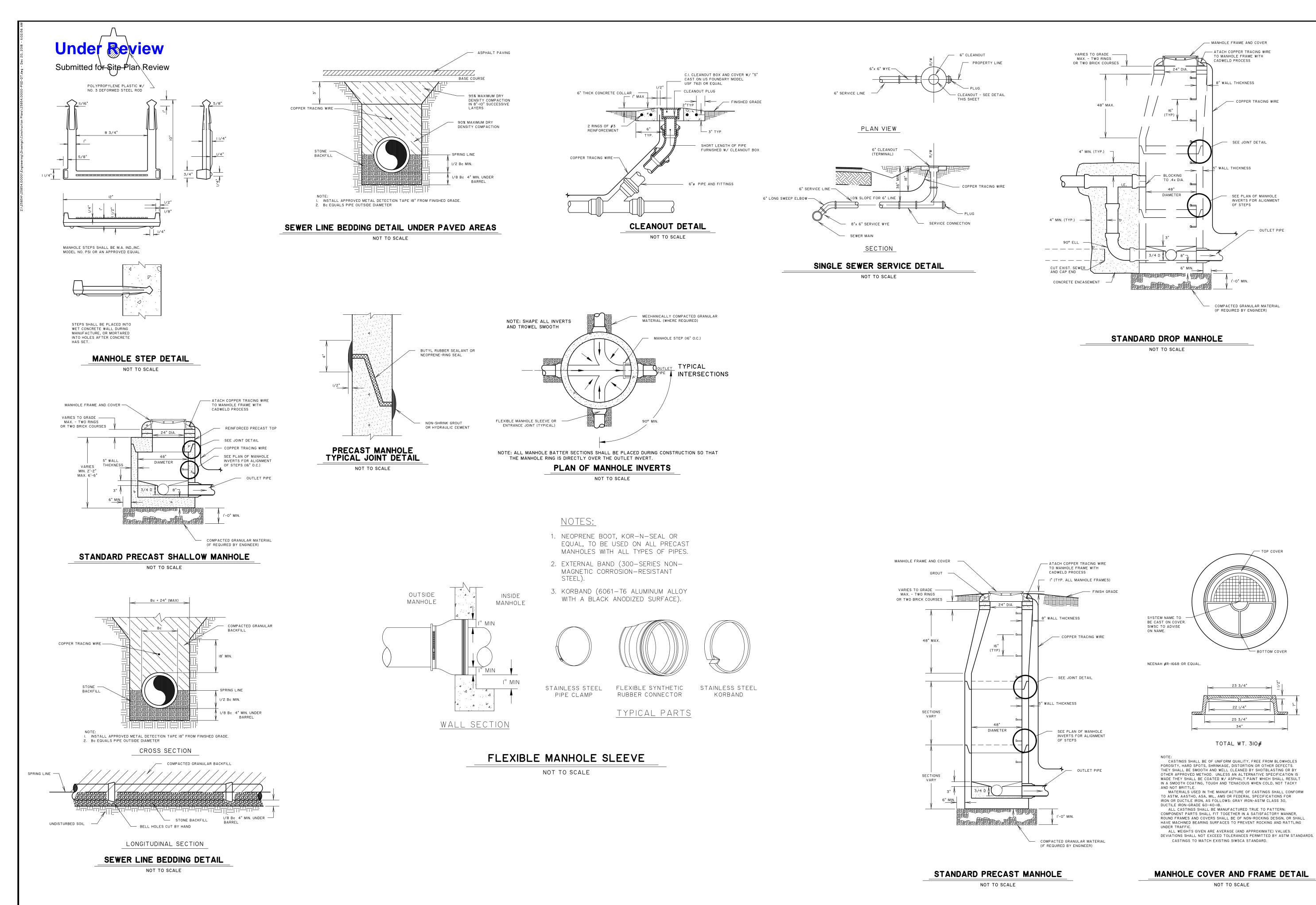
JEAN PINES

DETAILS \circ

DRAWN: LMD DESIGNED: LMD REVIEWED: DJJ APPROVED: DJJ







KRA, LP

KIAWAH ISLAND, SOUTH CAROLINA

OCEAN PINES

SEWER DETAILS

Www.thomasana

REVIEWED: DJJ
APPROVED: DJJ
SCALE: |" = |'

DRAWN:

DESIGNED: LMD

11/8/22

LMD