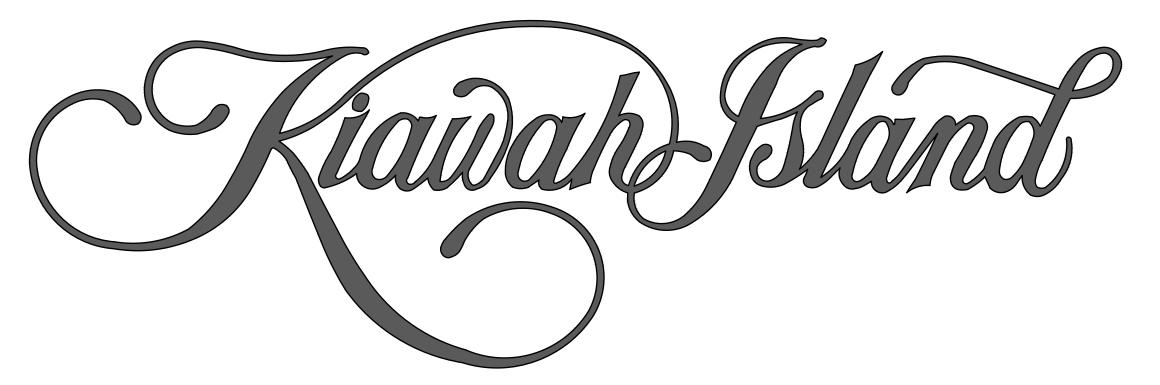


Submitted for Site Plan Review



# SITE DEVELOPMENT OF THE WEST END AT BEACHWALKER

# KIAWAH ISLAND, SOUTH CAROLINA



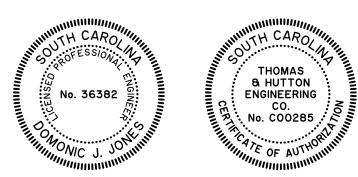
PREPARED FOR: KRA, LP KIAWAH ISLAND PARKWAY KIAWAH ISLAND, SC 29455 (843) 768-3418

TM# 207-05-00-117, 207-05-00-004, 207-05-00-116, 207-05-00-120 MAY 1, 2023 LATEST REVISION: JULY 7, 2023

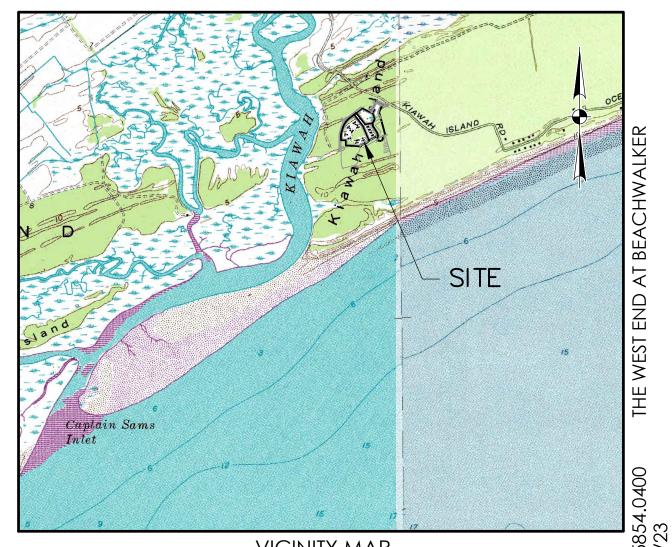
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PREPARED BY:

# **HOMAS & HUTTON** Engineering | Surveying | Planning | GIS | Consulting



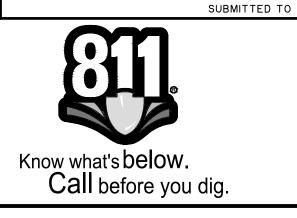
	<b>REVISION HISTORY</b>		
REV. NO.	REVISION	BY	DATE



## VICINITY MAP SCALE: 1" = 2000'

	Sheet List Table
Sheet Number	Sheet Title
C0	Cover Sheet
G0.1	General Notes and Project Map
G0.2	Existing Conditions
G0.3	Master Plan
EC0.1	SWPPP - Notes
EC0.2	SWPPP - Notes and Details
EC1.1	SWPPP - Initial Land Disturbance Phase
EC2.1	SWPPP - Construction Phase
EC3.1	SWPPP - Stabilization Phase
EC4.1	SWPPP - Details
C3.1	Site Development Plan
C3.2	Site Development Plan
C3.3	Site Development Plan
C3.4	Drainage Profiles
C3.5	Drainage Profiles
C3.6	Drainage Profiles
C3.7	Sewer Profiles
C3.8	Sewer Profiles
C5.1	Paving, Grading and Drainage Details
C5.2	Paving Grading and Drainage Details
C5.3	Water and Sewer Details
C5.4	Water and Sewer Details
МНК	Site Coverage and Elevations

SUBMITTAL	HISTORY



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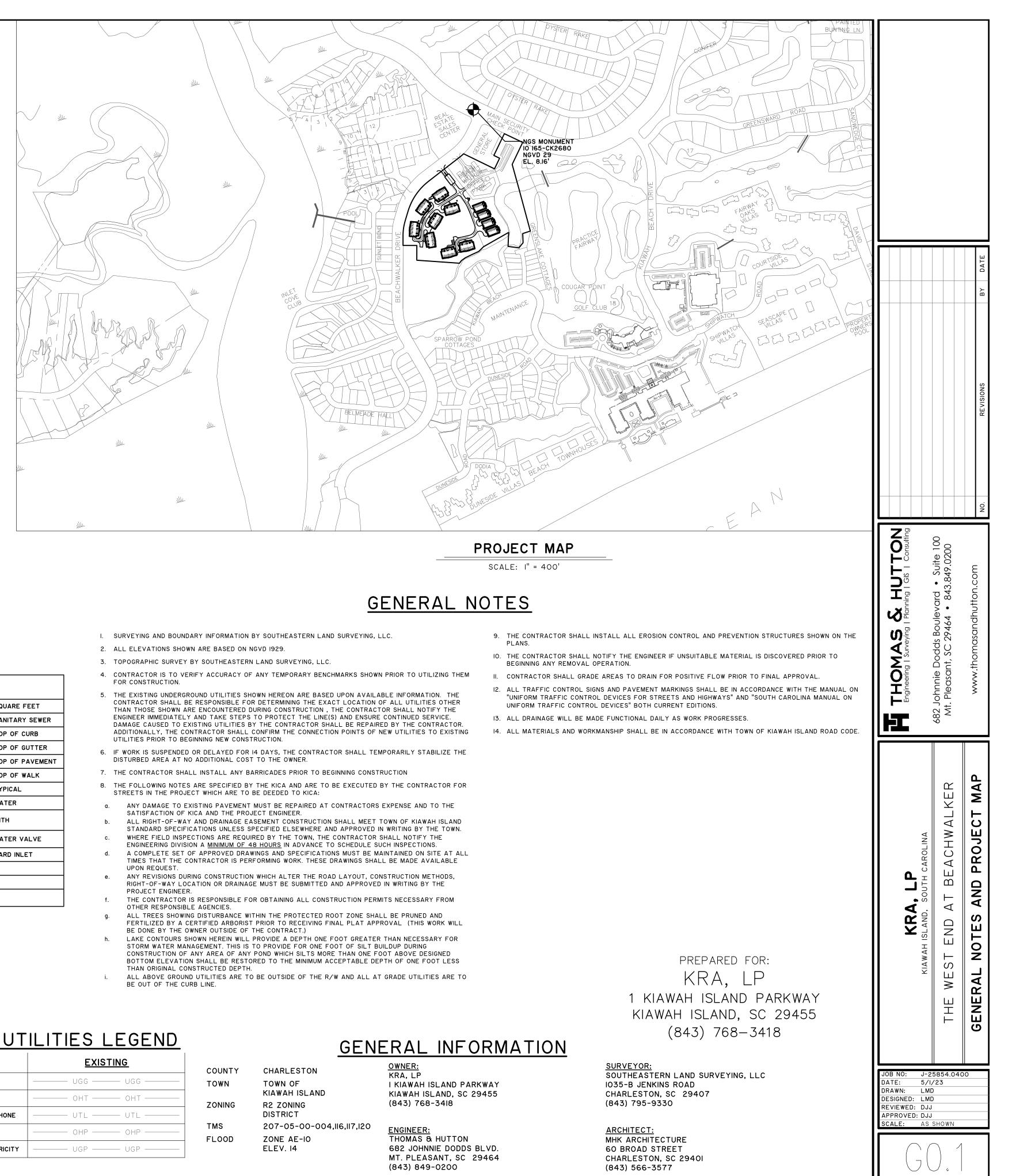
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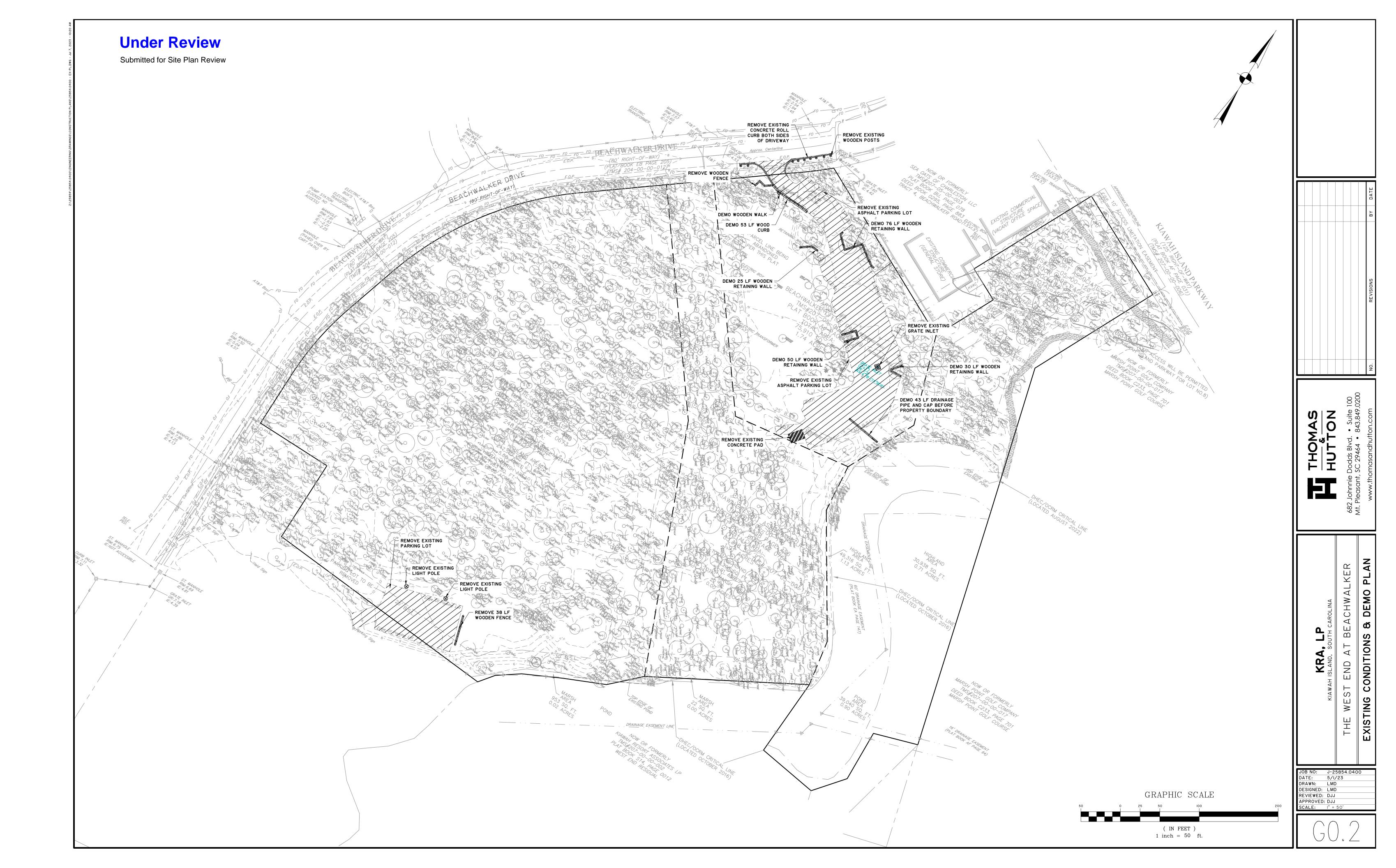
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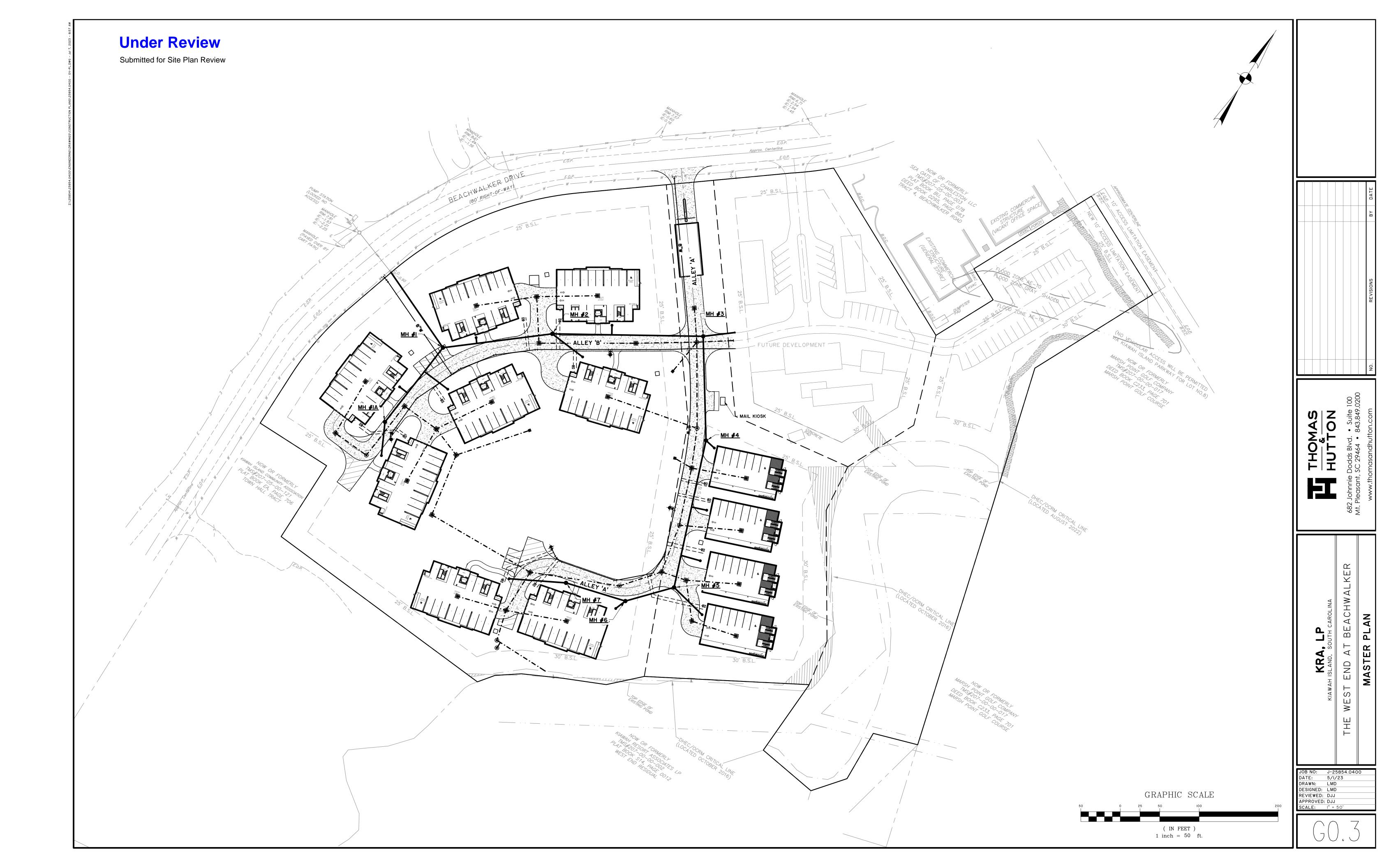
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	or Site Plan Review	PARKING SPACES R		<u>^ ^ 1</u>											
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	В.	DESC	RIPTION OF CONSTRUCTION ACTIVITY		111.	М	AIN
	_	STOR	CONSISTS OF WATER DISTRIBUTION AND ' MWATER MANAGEMENT AND ROAD CONSTI CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTUON OF CONS				MAIN
	C.	C.1.	SOIL CLASSIFICATIONS:	BEACHES		I	. I.
	D.		LAND USE(S): IVING WATERS	RESIDENTIAL			
			CLOSEST RECEIVING WATERS: ULTIMATE RECEIVING WATERS:	KIAWAH RIVER ATLANTIC OCEAN		4	.2.
	E.	FLOO E 1	D FEMA FLOOD ZONE(S):	AE (13&14)		I	.2.
			FEMA FLOOD INSURANCE MAP(S):	4519C0785K 1/29/21			
<b>II.</b>	СС	ONTF	ROL MEASURES				
	1.		NON AND SEDIMENT CONTROLS	ERIOR SILT FENCE WILL BE INSTALLED AS SHOWN			
5077.7			THE PLANS.	ERIOR SILT FENCE WILL DE INSTALLED AS SHOWN			
	1						
		1.1.1.	AS CLEARING IS COMPLETED, ADDITIONAL NECESSARY, SUCH AS POINTS WHERE FLC WHERE EXCESSIVE RUNOFF VELOCITIES M	OWS BECOME CHANNELIZED, AND OTHER POINTS			
			INSTALL CONSTRUCTION ENTRANCES / EX				
			STABILIZATION INCLUDE MULCHING AND T				
		1.1.4.	MAINTAIN EXISTING VEGETATION WHENEV DISTURBANCE. RETAIN AND PROTECT TRE AND REDUCE RAINDROP IMPACT.	ER POSSIBLE AND MINIMIZE THE AREA OF EES TO ENHANCE FUTURE LANDSCAPING EFFORTS		2.	SILT
		1.1.5.		CES PRIOR TO ANY UP-SLOPE SOIL DISTURBING			SI FL RI
		1.1.6.	WILL ALSO ALLOW COMPLETED AREAS TO	IIMIZE THE AREAS DISTURBED AT ONE TIME. THIS BE STABILIZED AND RE-VEGETATED BEFORE			HC
			MAY BE AVOIDED BY COMPLETING A PHAS			3.	SED
		1.1.7.	CONTROL MEASURES WHEN THE FINAL GF MAINTAIN AND PROTECT ALL NATURAL WA UNDISTURBED BUFFER OF NATURAL VEGE				SE SH
				NTAIN A 45-FOOT UNDISTURBED BUFFER AROUND		4.	SED SE
		1.1.8.	INSTALL SILT FENCE (OR BIO ROLLS/ROCK PERIMETER OF ALL DISTURBED AREAS PR	IOR TO ANY SOIL DISTURBING ACTIVITIES		5	FL
			FEET PER LINEAL FOOT OF FENCE. INSTAL	ILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE L SILT FENCE IN SHORTER REACHES ON THE OPE . SWALES AND SHORELAND AREAS SHOULD		5.	AN AN
		1.1.9.	ALSO BE PROTECTED WITH SILT FENCE, B			6.	SH CON
				OR ROCK SOCKS TO SLOW RUNOFF AND TRAP			M/ TF
		1.1.10	. USE TEMPORARY SLOPE DRAINS OR ROCK	CHUTES TO MOVE WATER DOWN STEEP SLOPES.			
		1.1.11	. CONSTRUCT SEDIMENT BASINS FOR DRAIN	NAGE AREAS GREATER THAN 10 ACRES	IV.		NSP
	1	.2. F	OUGH GRADING			1.	QUA USE FINA
		1.2.1.	GREATER THAN 14 DAYS PRIOR TO START	INED DURING ROUGH GRADING, DELAYS OF OF NEXT ACTIVITY WILL MANDATE STABILIZATION			ENT BEE
		100	PROCEDURES. ACCEPTABLE METHODS OF TEMPORARY SEEDING.	F STABILIZATION INCLUDE MULCHING AND		2.	MON DIST
		1.2.2.		DR STORM WATER FACILITIES) SHALL BE GRASSED			PRE ENT
		1.2.3.	COVER ANY STOCK PILED TOPSOIL WITH F	PLASTIC (OR OTHER IMPERVIOUS COVERING) OR (PILED TOPSOIL AS EARTHEN BERMS TO SERVE AS			THE DISC WHE
	1	.3. C	TEMPORARY SEDIMENT BASINS. RAINAGE				TO F INSF
			ALL EXISTING CONTROLS WILL BE MAINTA			3.	A WI OF F
			CONSTRUCTION DRAINAGE WILL BE ROUT SEDIMENT BASINS OR OTHER ACCEPTABL	E SEDIMENT BASINS/TRAPS.			
			CURB INLETS, STORM DRAIN MANHOLES, J DELAYS OF GREATER THAN 14 DAYS PRIO	,			EVE EVE SED
			SEQUENCE WILL MANDATE STABILIZATION STABILIZATION INCLUDE MULCHING AND T	PROCEDURES. ACCEPTABLE METHODS OF EMPORARY SEEDING.			MAIN
		1.3.5.	ALL STORM LINES NOT IN STREETS OR OT SEEDED WITHIN 5 DAYS AFTER BACKFILL.	HER PAVED AREAS ARE TO BE MULCHED AND			THA INCL
	1	.4. V	VATER DISTRIBUTION SYSTEM INSTALLATIO	Ν		4.	STA
		1.4.1.	ALL EXISTING CONTROLS WILL BE MAINTA DISTRIBUTION SYSTEM.	INED DURING INSTALLATION OF THE WATER			FAC NPD REP
		1.4.2.	STABILIZATION PROCEDURES. ACCEPTAB	R TO START OF NEXT ACTIVITY WILL MANDATE LE METHODS OF STABILIZATION INCLUDE	V.	LC	ONG
	1	.5. V	MULCHING AND TEMPORARY SEEDING.			MA	۹NA
	I			INED DURING INSTALLATION OF THE WASTEWATER			THE ASS
		1.5.2.	SYSTEM. DELAYS OF GREATER THAN 14 DAYS PRIO	R TO START OF NEXT ACTIVITY WILL MANDATE		_	IS TU
			STABILIZATION PROCEDURES. ACCEPTAB MULCHING AND TEMPORARY SEEDING.	LE METHODS OF STABILIZATION INCLUDE	VI.	S	CD
	1	.6. 0	CONSTRUCTION OF ROADS			1.	IF NE SYN
			ALL EXISTING CONTROLS WILL BE MAINTA DELAYS OF GREATER THAN 14 DAYS PRIOI	INED DURING ROAD CONSTRUCTION. R TO START OF NEXT ACTIVITY WILL MANDATE			NEC BER
			STABILIZATION PROCEDURES. ACCEPTAB MULCHING AND TEMPORARY SEEDING.			2.	STAI SITE
	1	.7. 0	RASSING				NO ( BEL(
			ALL EXISTING CONTROLS WILL BE MAINTA ANY AREAS THAT ERODE OR WHERE GRAS				2.1.
	0	etor	RE-GRADED AND RE-GRASSED.			2	2.2.
	Ζ.		M WATER MANAGEMENT DFF FROM THIS PROJECT WILL DISCHARGE I	NTO A STORM WATER MANAGEMENT SYSTEM.		3.	ALL
	3.	TREA	TMENT WILL OCCUR IN STORM WATER DETI R CONTROLS			J.	WEE INAF
			VASTE DISPOSAL				REP IDEN
		3.1.1.	NO SOLID MATERIALS, INCLUDING BUILDIN RECEIVING WATERS.	G MATERIALS, SHALL BE DISCHARGED TO ANY		4.	PRO ERO
		3.1.2.		IS AND THE GENERATION OF DUST SHALL BE			AND AND
		3.1.3.		ID/OR LOCAL WASTE DISPOSAL, SANITARY SEWER			ENC BEF
						5.	ALL

OR SEPTIC SYSTEM REGULATIONS. .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.

#### NTENANCE

- INTENANCE PROGRAM 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.
- 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.

#### T 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

- DIMENTATION 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. DIMENT LOGS/ROLLS
- SEDIMENT LOGS/ROLLS OR OTHER CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INEFFECTIVELY SHALL BE PROMPTLY REPLACED.
- GETATION COVER
- SHALL IMMEDIATELY BE REPLACED.
- DNSTRUCTION ENTRANCE

MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD TRACKED ONTO THEM

#### PECTIONS

- JALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE, AREAS ED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN VALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES TER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. WHERE SITES HAVE EN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY ONTH DURING THE WARRANTY PERIOD.
- TURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO RECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLILITANTS ITERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN E PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE CHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN HETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE PECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
- WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS PERSONNEL MAKING THE INSPECTION THE DATE(S) OF THE INSPECTION WEATHER ORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF NSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM YENT DURATION OF FACH STORM EVENT APPROXIMATE AMOUNT OF RAINFALL FOR FACH STORM 'ENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED, LOCATION(S) OF DISCHARGES OF DIMENT OR OTHER POLLUTANTS FROM THE SITE, LOCATION(S) OF BMP'S THAT NEED AINTENANCE, LOCATION(S) OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED ADEQUATE FOR A PARTICULAR LOCATION. LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED IAT DID NOT EXIST AT THE TIME OF INSPECTION AND ANY CORRECTIVE ACTION REQUIRED LUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.
- IE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY ABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE CILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE PDES PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE PORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.
- G TERM MAINTENANCE OF DRAINAGE AND STORM WATER AGEMENT SYSTEM

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

- DHEC STANDARD NOTES
- NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH INTHETIC OR VEGETATIVE MATS. IN ADDITION TO GRASSING / HYDROSEEDING. IT MAY BE CESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY RMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- ABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE TE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED
- CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. 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.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR EEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN APPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY PLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF ENTIFICATION.
- OVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL OSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED. GRADED ID STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, D TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS COUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS FORE 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

ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED

WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND

# STORMWATER POLLUTION PREVENTION PLAN

THE SITE IS STABILIZED.

- 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 THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 AND SCR100000.
- 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.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE 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 ALL WOS
- 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, FILTER BAG, ETC.).
- 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**

- 1. 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 NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 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.
- 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 THE PROJECT.
- 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 IN ET 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

- 14. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL CONSTRUCTION IN ORDER TO PREVENT EROSION AND CON SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND PROJECT IS TERMINATED OR SUSPENDED FOR AND INDEFIN AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.
- 15. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOW INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICA HOWEVER THE SAME IS SHOWN AS INFORMATION ONLY. IS THOMAS & HUTTON, OR THE OWNER IN ANY WAY.
- 16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PE CONTRACTOR AT HIS COST SHALL GRADE SITE AND PROVI SWALES TO INSURE STORM WATER DOES NOT POND ON SI
- 17. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY P THE CONSTRUCTION AREA AND TO FACILITATE STORM WAT
- 18. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVE EROSION AND SEDIMENT CONTROL MEASURES AND PRACTIC LAND DISTURBING ACTIVITIES.
- 19. LIME RATES AND ANALYSIS: 19.1. AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE S UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AR LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERM ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LI SPECIFICATIONS OF THE SOUTH CAROLINA DEPARTMEN

- MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT FOLLOWING AND APPLY AS INDICATED:
- 20.1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS F AT THE RATE OF 2 1/2 TONS PER ACRE.
- 20.2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHAL IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER AC APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDR/
- 20.3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOO TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ( 20.4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED S PER ACRE
- 20.5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THIC PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT ORNAMENTALS OR OTHER GROUND COVERS ARE PLANT SEEDED AREAS.
- 20.6. WHEN USING TEMPORARY EROSION CONTROL BLANKE REQUIRED
- 20.7. ON SLOPES GREATER THAN 10 FEET IN LENGTH AND 4:1 EROSION CONTROL BLANKETS THAT HAVE BEEN PROPE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS:
- 2:1 SLOPES OR STEEPER: STRAW/COCONUT BLANKE 3:1 SLOPES OR STEEPER: - WOOD OR STRAW BLANKE
- 4:1 SLOPES OR FLATTER: WOOD OR STRAW MULCH I

#### VIII. HOUSEKEEPING

- 1. PETROLEUM PRODUCTS: INCLUDING OIL, GASOLINE, LUBRIC
- 1.1. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLE 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 STA 2.3. REDUCE STORM WATER CONTACT IF SPILL OCCURS 2.3.1. CLEANUP PROCEDURES SHOULD BE CLEARLY POSTE 2.3.2. CLEANUP MATERIALS SHOULD BE READILY AVAILABLE 2.3.3. STOP THE SOURCE 2.3.4. CONTAIN THE SPIL

## 3. NON-STORM WATER DISCHARGES

- 3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES
- 3.2. FIRE HYDRANT FLUSHINGS
- 3.3. WATERS USED TO WASH VEHICLES WHERE DETERGEN 3.4. WATER USED TO CONTROL DUST
- 3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER 3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES
- 3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL DETERGENTS ARE NOT USED
- 3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSO 3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER
- 3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE I MATERIALS SUCH AS SOLVENTS
- 3.11. UNCONTAMINATED EXCAVATION DEWATERING
- 3.12. LANDSCAPE IRRIGATION 3.13. DECHLORINATED SWIMMING POOL DISCHARGES.
- 4. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING SUPPLIES, ETC.
- 4.1. SELECT A DESIGNATED WASTE COLLECTION AREA
- 4.2. PROVIDE LIDS FOR WASTE CONTAINERS
- 4.3. WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AR 4.4. MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WAST

EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.				
14. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE	IX. GRASSING NOTES			
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.	<ol> <li>SOD: 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. EACH INDIVIDUAL SOD PIECE SHALL BE STRONG ENOUGH TO SUPPORT ITS OWN WEIGHT WHEN</li> </ol>			
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	LIGHTINDIDIAL SOD FIELE STALL BE STREQULARLY SHAPED PIECES, AND TORN 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.			
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	<ol> <li>SODDING SCHEDULE:</li> <li>LAY SOD FROM MAY 1 TO SEPTEMBER 15 FOR SPRING PLANTING AND FROM SEPTEMBER 15 TO</li> </ol>			
<ul> <li>SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.</li> <li>17. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN</li> </ul>	NOVEMBER 1 FOR FALL PLANTING. 3. SEED:			
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.	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 ACTION			
<ol> <li>LIME RATES AND ANALYSIS:</li> <li>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,</li> </ol>	<ul> <li>DEPARTMENT OF AGRICULTURE.</li> <li>3.1. PENNISETUM GLAUCIUM (BROWNTOP MILLET): TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION.</li> <li>3.2. BERMUDA COMMON: TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION.</li> <li>3.3. DOMESTIC ITALIAN RYE: TESTING 98 PERCENT PURITY AND 90 PERCENT GERMINATION.</li> </ul>			DATE
ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME APPLICATION SHALL BE WITHIN THE SPECIFICATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE.	4. MISCELLANEOUS:			ΒY C
20. MULCHING:	4.1. PERMANENT SEEDING SHALL COVER ALL DISTURBED AREA NOT TO BE COVERED BY LANDSCAPE PLANTING BEDS, STRUCTURE, OR PAVEMENT.			
MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:	<ul> <li>4.2. SEED ALL DISTURBED AREAS WITHIN SEVEN DAYS OF FINAL GRADING AND TEMPORARY SEED/MULCH ALL AREAS THAT WILL BE LEFT INACTIVE FOR MORE THAN FOURTEEN (14) DAYS.</li> <li>4.3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED</li> <li>4.4. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER</li> </ul>			
<ol> <li>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.</li> <li>20.2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING.</li> </ol>	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			
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	GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY 10 SF.			SNO
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.	X. PERMANENT STABILIZATION NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC.EXCESSIVE			REVISIONS
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.	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.			
20.6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NOT REQUIRED.	4.1. SEEDED AREAS			
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:	FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.			
<ul> <li>2:1 SLOPES OR STEEPER: - STRAW/COCONUT BLANKET OR HIGH VELOCITY WOOD BLANKET</li> <li>3:1 SLOPES OR STEEPER: - WOOD OR STRAW BLANKET WITH NET ON BOTH SIDES</li> <li>4:1 SLOPES OR FLATTER: - WOOD OR STRAW MULCH BLANKET WITH NET ON ONE SIDE</li> </ul>	4.2. SODDED AREAS			, N N
/III. HOUSEKEEPING	FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE APPROVED MULCH MATERIAL.	Ĕ	000	
HESE PERFORMANCE STANDARDS APPLY TO ALL SITES.	4.3. PERMANENT MULCH		.0200	_
1. PETROLEUM PRODUCTS: INCLUDING OIL, GASOLINE, LUBRICANTS AND ASPHALTIC SUBSTANCES.	FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL.		43.849.020	COT
1.1. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR ON MAINTENANCE AND FUELING VEHICLES	4.4. RIPRAP		843.	ton.
<ol> <li>STORE IN COVERED AREAS PROTECTED WITH DIKES</li> <li>SPILLS: PREVENTION AND RESPONSE.</li> </ol>	FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF AN APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP.		9464 •	www.thomasandhutton.com
<ul> <li>2.1. STORE AND HANDLE MATERIALS TO PREVENT SPILLS</li> <li>2.2. TIGHTLY SEALED CONTAINERS, NEAT AND SECURE STACKING, ETC.</li> <li>2.3. REDUCE STORM WATER CONTACT IF SPILL OCCURS</li> </ul>	4.5. DITCHES, CHANNELS, AND SWALES		3C 29	masc
2.3. REDUCE STORM WATER CONTACT IF SPIEL OCCORS 2.3.1. CLEANUP PROCEDURES SHOULD BE CLEARLY POSTED. 2.3.2. CLEANUP MATERIALS SHOULD BE READILY AVAILABLE 2.3.3. STOP THE SOURCE	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		easant, Si	w.tnor
2.3.4. CONTAIN THE SPILL 3. NON-STORM WATER DISCHARGES	VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN CUTTING OF THE CHANNEL.	<u> </u>	Pleasa	$\mathbf{\tilde{s}}$
THE FOLLOWING NON-STORMWATER DISCHARGES MUST BE PROTECTED FROM CAUSING POLLUTION OR EROSION:	XI. FERTILIZER REQUIREMENTS		Mt. Ple	
3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES 3.2. FIRE HYDRANT FLUSHINGS				
<ul> <li>3.2. FIRE HYDRAIN FLUSHINGS</li> <li>3.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED</li> <li>3.4. WATER USED TO CONTROL DUST</li> <li>3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS</li> <li>3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS</li> <li>3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS</li> </ul>	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		с	
HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED 3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE	BENEFIT THE LONG-TERM PERMANENT SEEDING. APPLY A MINIMUM OF 1.5 TONS OF LIME / ACRE (70LBS. / 1000 SQ. FT.).			
<ul> <li>3.9. UNCONTAMINATED AIR CONDITIONING OR COMINALSSOR CONDENSATE</li> <li>3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER</li> <li>3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS</li> </ul>	<ol> <li>PERMANENT SEEDING FERTILIZER</li> <li>APPLY A MINIMUM OF 1000 LBS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (23 POUNDS PER 1000 2014 DE SEET) OF FOUNDALE STERNARD SEEDING OF OPAPER 10-10 FERTILIZER (23 POUNDS PER</li> </ol>	Þ	MAL	
3.11. UNCONTAMINATED EXCAVATION DEWATERING 3.12. LANDSCAPE IRRIGATION	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	AROLINA		S
<ul> <li>3.13. DECHLORINATED SWIMMING POOL DISCHARGES.</li> <li>4. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING</li> </ul>	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 AGRICULTURAL LIMESTONE PER ACRE (70 LBS. / 1000 SQ.FT.).		BE/	OTE
SUPPLIES, ETC. 4.1. SELECT A DESIGNATED WASTE COLLECTION AREA 4.2. PROVIDE LIDS FOR WASTE CONTAINERS	XII. SWPP PREPARER CERTIFICATION	<b>A</b> , L , sou⊺	AT	Ż I
<ul> <li>4.2. PROVIDE LIDS FOR WASTE CONTAINERS</li> <li>4.3. WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AREA</li> <li>4.4. MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WASTE</li> </ul>	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	KR/		<u>с</u>
<ol> <li>5. PESTICIDES: REDUCE THE AMOUNT OF PESTICIDES AVAILABLE FOR CONTACT WITH STORM WATER.</li> <li>5.1. STORE IN A DRY COVERED AREA</li> <li>5.2. INSTALL CURPS OF DIVES ADOLINE STORAGE AREA TO PROTECT ACAMET SPILLS</li> </ol>	KNOWLEDGE AND BELIEF THAT THE DESIGN OF THE STSTEM. FORTHER, FOR THE NEW FORTHER AND THE BEST OF 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.			SWP
<ul> <li>5.2. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS</li> <li>5.3. STRICTLY FOLLOW RECOMMENDED APPLICATION RATES</li> </ul>		KIA	VE S	
<ol> <li>FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS AVAILABLE FOR CONTACT WITH STORM WATER.</li> <li>6.1. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED</li> </ol>			> Ц Н	
<ul><li>6.1. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED</li><li>6.2. APPLY MORE FREQUENTLY BUT AT LOWER APPLICATION RATES</li><li>6.3. LIMIT USE OF DETERGENTS ON-SITE</li></ul>			$\stackrel{-}{\vdash} \parallel$	
<ul><li>6.4. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM</li><li>6.5. MAINTAIN STRUCTURAL AND VEGETATIVE BMP'S</li><li>6.6. APPLY ACCORDING TO SOIL TEST RECOMMENDATIONS PRIOR TO SEEDING.</li></ul>				
		JOB NO: J-25	854.0400	
		DATE: 5/1/3 DRAWN: LMD	23	
		DESIGNED: LMD		

REVIEWED: DJJ

APPROVED: DJJ

CALE: NOT TO SCALE

						SEEDING -							1		ROL LEGEND
species Under	LASSO	lew	FEB	MAR				JUL	AUG	SEP	ОСТ	NOV	DEC		PLAN SYMBOL
	r Site Pla	n Reviev	V			ROUGHTY	51165	1	1		I	1	1		
RYE, GRAIN	56													SILT FENCE	
RYEGRASS	50													SILT FENCE	
Intenado	50			WELL		CLAYEY/LC									-
BROWNTOP MILLET	40													L CLEARING LIMITS	
	40														
JAPANESE MILLET RYE, GRAIN	56														-
OATS	75														
	50														
RYEGRASS	50														
														SURFACE ROUGHENING	OR LG
r	1	1				SEEDING -	-								
SPECIES	LABS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC		
	-	1	1	1	SANDY, E	DROUGHTY	SITES		I		1		1		+
BROWNTOP MILLET	10														
BAHIAGRASS	40														
BROWNTOP MILLET	10														+
BAHIAGRASS	30														
SERICEA LESPEDEZA	40													PERMANENT SEEDING	
BROWNTOP MILLET	10														
ATLANTIC COASTAL	15														
PANICGRASS	PLS														( M )
BROWNTOP MILLET	10														
SWITCHGRASS	8													EROSION CONTROL BLANKET OR TURF	
(ALAMO)	PLS													REINFORCEMENT MAT	
LITTLE BLUESTEM	4														
SERICEA LESPEDEZA	20														
BROWNTOP MILLET	10													FLEXIBLE GROWTH MATRIX	(FGM)
WEEPING LOVEGRASS	8														+
				WELL	DRAINED,	CLAYEY/LO	DAMEY S	ITES							
BROWNTOP MILLET	10													BONDED FIBER MATRIX	(BFM)
BAHIAGRASS	40														
RYE, GRAIN	10														
BAHIAGRASS	40													SODDING	SO
CLOVER, CRIMSON (ANNUAL)	5														<u> </u>
BROWNTOP MILLET	10														
BAHIAGRASS	30													STAKED SOD	
SERICEA LESPEDEZA	40														- <u>^</u>
BROWNTOP MILLET	10														
BERMUDA, COMMON	10													STAKED SOD AROUND INLET	
SERICEA LESPEDEZA	40														
BROWNTOP MILLET	10														
BERMUDA, COMMON	12														
KOBE LESPEDEZA (ANNUAL)	10														<u> </u>
BROWNTOP MILLET	10													OUTLET PROTECTION - RIP RAP	
BAHIAGRASS	20			_											
BERMUDA, COMMON	6														<u>+</u>
SERICEA LESPEDEZA	40													OUTLET PROTECTION - ECB OR TRM	
BROWNTOP MILLET	10														
SWITCHGRASS	8														<u> </u>
LITTLE BLUESTEM	PLS														
INDIANGRASS	3														
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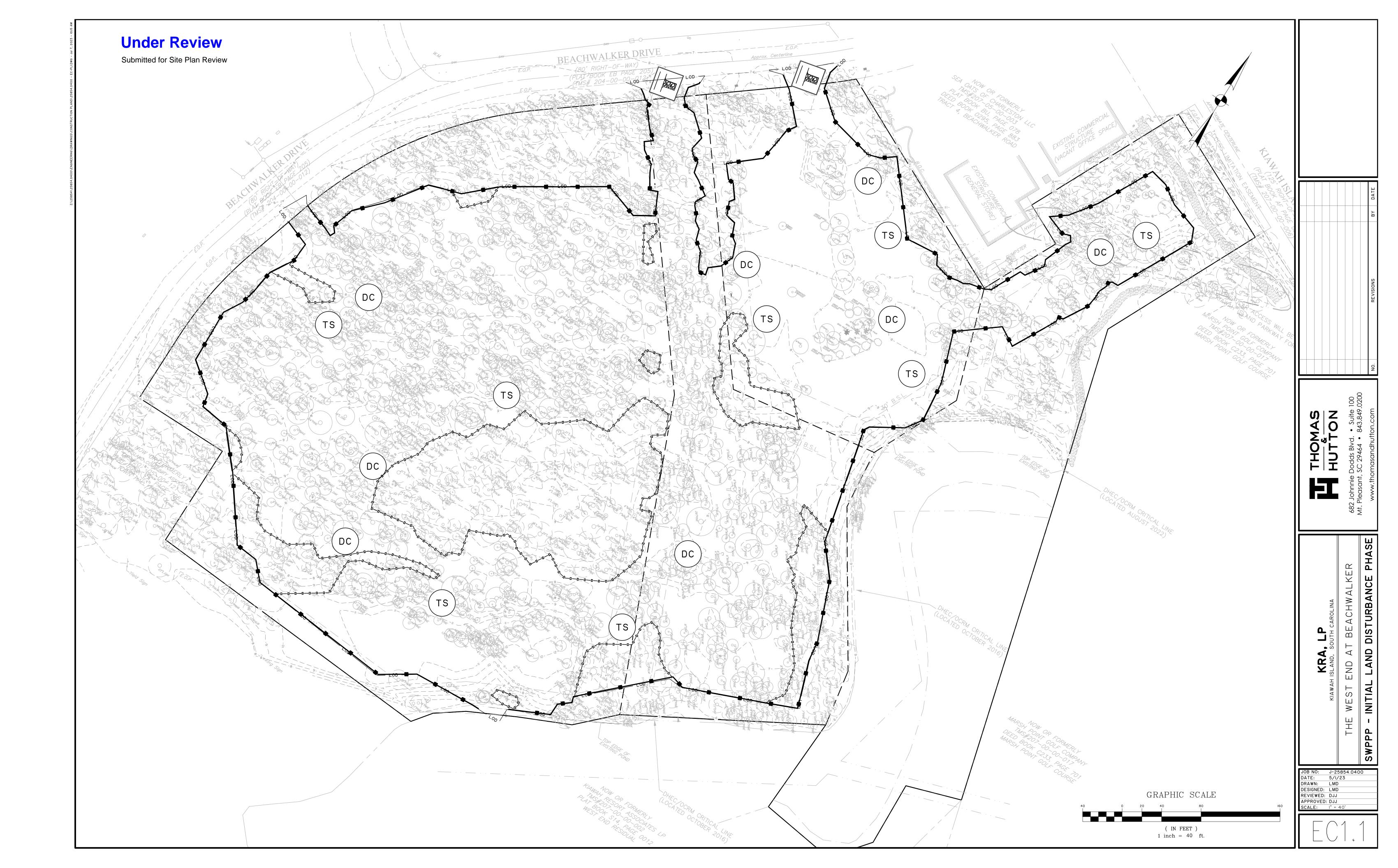
ERO	DSION CONT	ROL LEGEND		
DESCRI	PTION	PLAN SYMBOL		
ROCK SEDI	MENT DIKE			
SEDIMENT	TUBE			
ROCK CHEC	CK DAM	OR OR		
STABILIZE	CONSTRUCTION ENTRANCE			
CONCRETE	WASHOUT			
STORM DRA	AIN INLET PROTECTION - TYPE A BRIC			
STORM DRA SEDIMENT	AIN INLET PROTECTION - TYPE A TUBE	A		
	AIN INLET PROTECTION - TYPE B FABRIC AND STONE	B		
STORM DR/ BLOCK AND	AIN INLET PROTECTION - TYPE C ) GRAVEL			
STORM DR/ RIGID INLET	AIN INLET PROTECTION - TYPE D			
	AIN INLET PROTECTION - TYPE E COURSE CURB INLET FILTER	Ε		
STORM DRA	AIN INLET PROTECTION - TYPE F E	F		
SILT SAC				
			CONSTRUCTIO	ON SEQUENCE
		CONSTRUCTION ACTIVITY		
1	OBTAIN COPIES OF ALL PLAN A	APPROVALS AND OTHER APPLICABLE P		CONTRACTOR TO
2	FLAG THE CLEARING LIMITS, M LIMITS FOR PROTECTION.	IARK TREES TO BE PROTECTED, AND N	INITIAL PHAS	E REVIEW TREE PRO PROTECTED TREE INFRASTRUCTURE
3		NFERENCE AT LEAST ONE WEEK PRIOF IONAL PRE CONSTRUCTION CONFEREI K.		EACH CONTRACTO PRE CONSTRCUTION

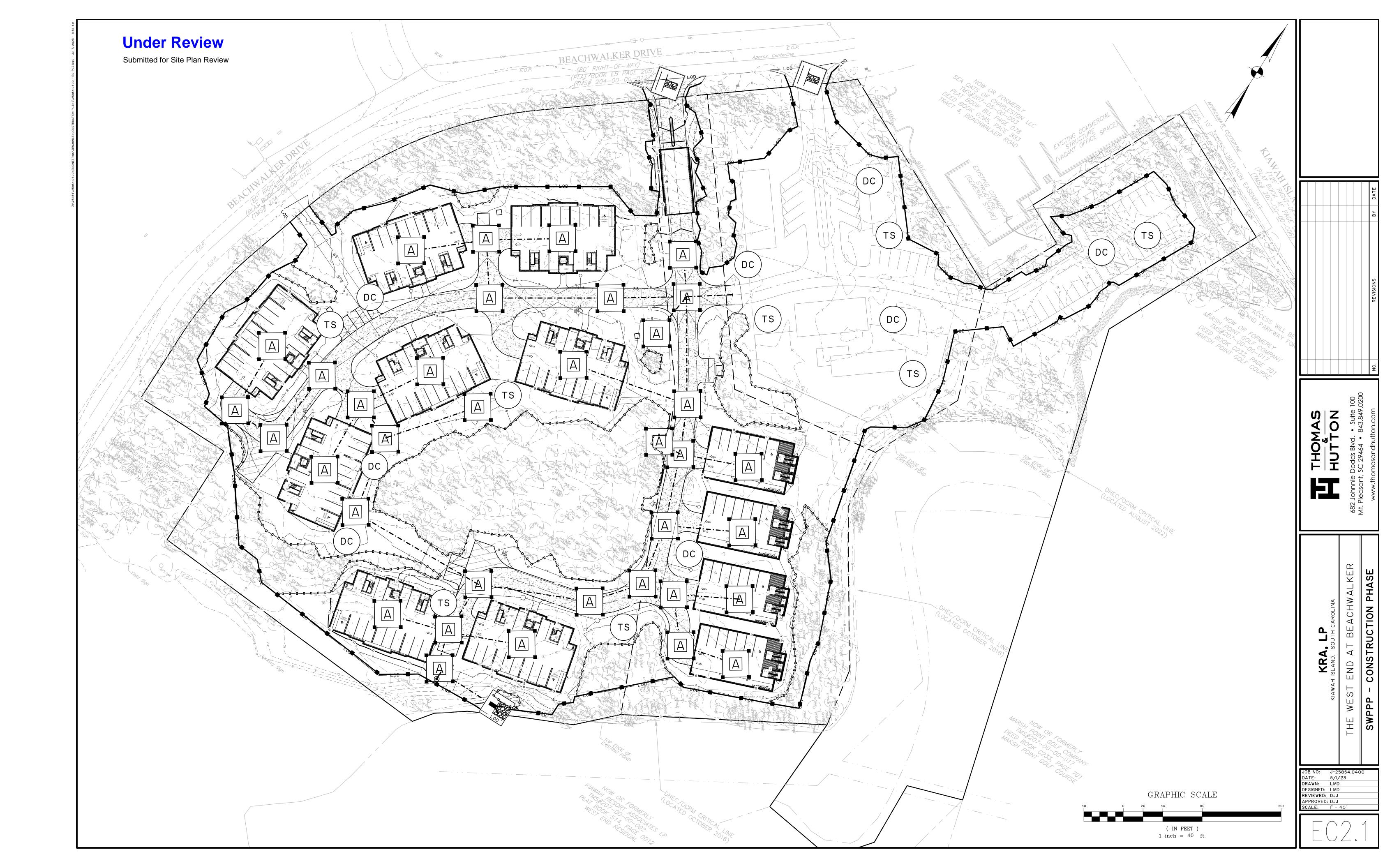
	CONSTRUCTIO	ON SEQUENCE
	CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1	OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	CONTRACTOR TO MAINTAIN OS-SWPP AT ALL TIMES DURING CONSTRUCTION.
	INITIAL PHAS	SE
2	FLAG THE CLEARING LIMITS, MARK TREES TO BE PROTECTED, AND MARK BUFFER LIMITS FOR 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.
3	HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. HOLD ADDITIONAL PRE CONSTRUCTION CONFERENCES AS NECESSARY FOR FUTURE WORK.	EACH CONTRACTOR, SUBCONTRACTOR, UTILITY CONTRACTOR, ETC. SHALL ATTEND A PRE CONSTRUCTION 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	CONSTRUCT PERIMETER EROSION CONTROL BMPS - SILT FENCE, SEDIMENT TRAPS AND ROCK CHECK DAMS PER THE INITIAL LAND DISTURBANCE PHASE STORMWATER MANAGEMENT PLAN.	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.
	CONSTRUCTION	PHASE
8	LAND CLEARING AND GRADING -SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING PER THE CONSTRUCTION AND STABILIZATION PHASE SWPPP.	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.
9	INSTALL RUNOFF CONVEYANCE SYSTEM - INSTALL STORM DRAINS, STABILIZE BANKS AND CHANNELS. INSTALL STORM DRAIN INLET PROTECTION AS SOON AS INLET IS INSTALLED.	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 T DISCHARGING. OUTFALL DITCH OR PIPING TO BE IN OPERATION.
10	INSTALL WASTEWATER COLLECTION, WATER DISTRIBUTION, AND STORM DRAINAGE SYSTEMS.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE. DIRECT ALL TRENCHING AND OTHER DEWATERING OPERATIONS THROUGH A DEWATERING BAG OR SIMILAR BMP PRIOR TO DISCHARGING.
11	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.
12	SURFACE STABILIZATION -TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
13	AS PERVIOUS PAVEMENTS ARE INSTALLED, CHANGE INLET PROTECTION TO TYPE G.	INSTALL SEDIMENT CONTROL BMPS AS THE INLET BOXES BECOME AVAILABLE ON A BOX BY BOX PROCESS.
	STABILIZATION	PHASE
14	LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.
15	REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL BMPS AS ADJACENT AREAS ARE STABILIZED.	REMOVE SEDIMENT AND EROSION CONTROL BMPS ON A CASE BY CASE BASINS AND ONLY AFTER ALL UPSTREAM CONTRIBUTING AREA IS STABILZED.

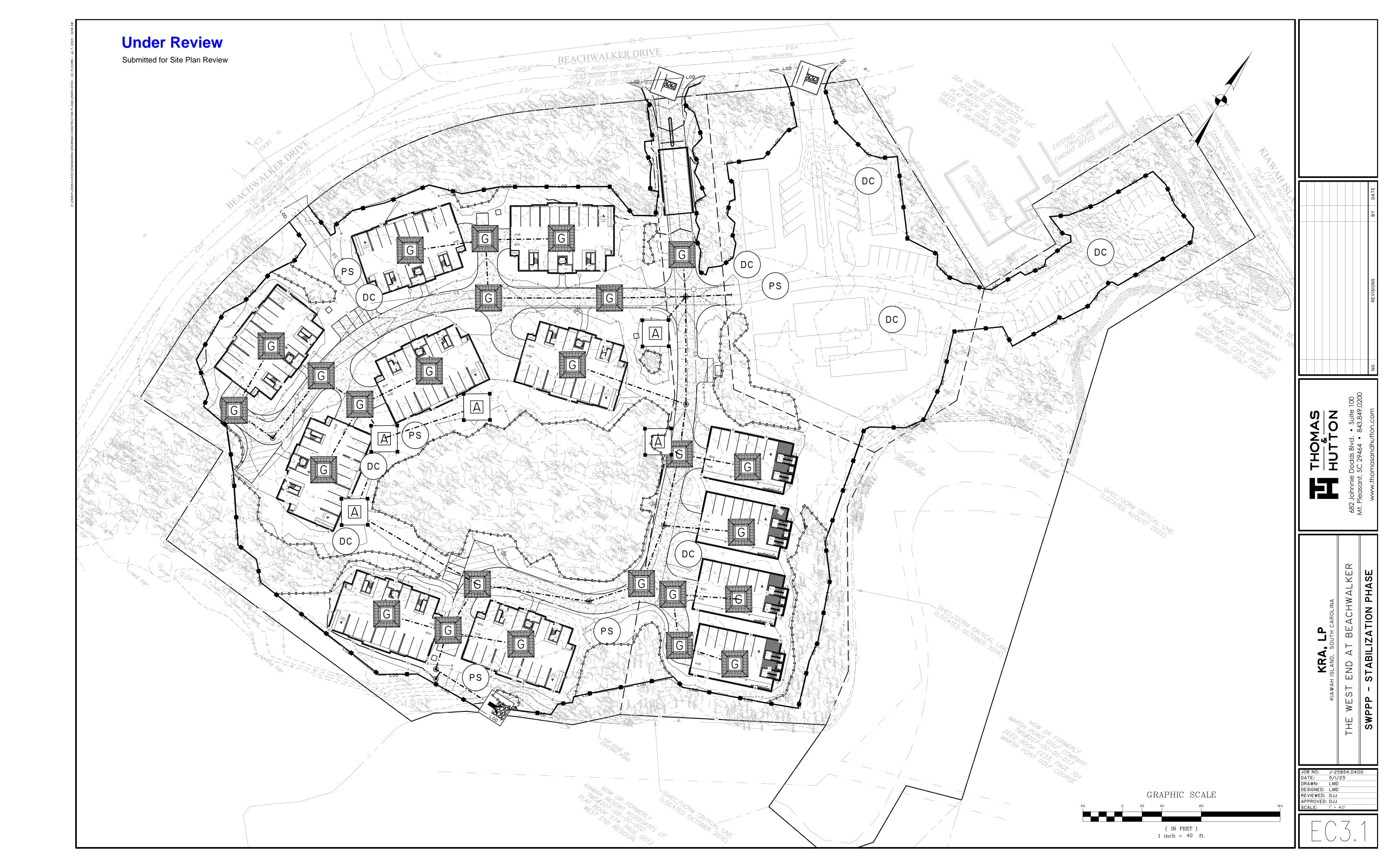
# LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

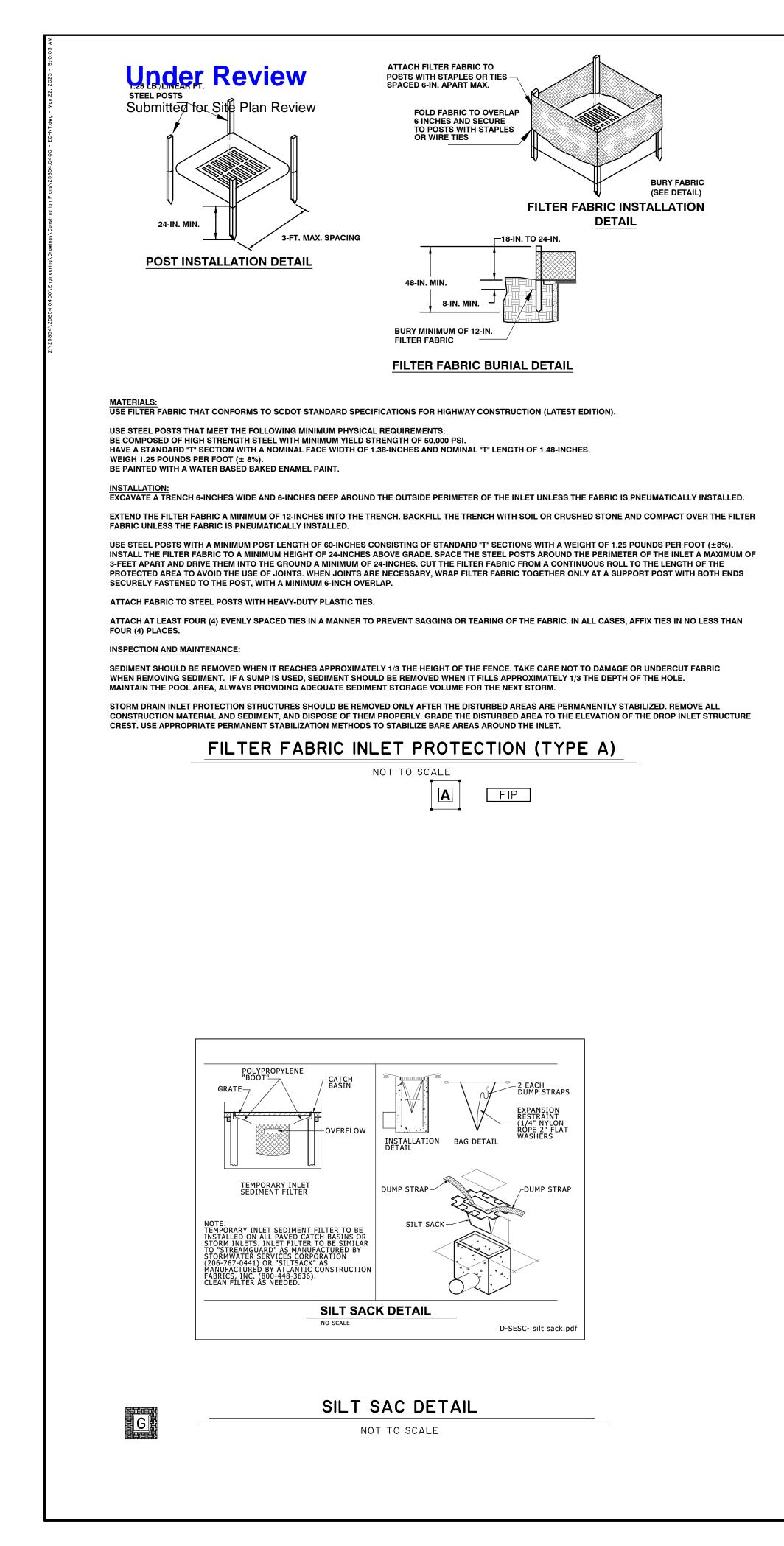
	ACRONTING FOR SEDIMENT AND EROSION CONT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AMD	ACRYLAMIDE POLYMER
BFM	BONDED FIBER MATRIX
BMP(S)	BEST MANAGEMENT PRACTICE(S)
CFS	CUBIC FEET PER SECOND
СМР	CORRUGATED METAL PIPE
DHEC	DEPARTMENT OF HEATH AND ENVIRONMENTAL CONTROL
ECB	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
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
MSDS	MATERIAL SAFETY DATA SHEETS
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP

		BY DATE
		NO. REVISIONS
FIND AS & HUTTON Engineering   Surveying   Planning   GIS   Consulting Engineering   Surveying   Planning   GIS   Consulting	682 Johnnie Dodds Boulevard • Suite 100 Mt. Pleasant, SC 29464 • 843.849.0200	www.thomasandhutton.com
<b>KRA, LP</b> KIAWAH ISLAND, SOUTH CAROLINA	THE WEST END AT BEACHWALKER	SWPPP - NOTES AND DETAILS
DATE: 5/ DRAWN: LM DESIGNED: LM REVIEWED: DJ. APPROVED: DJ.	D J	



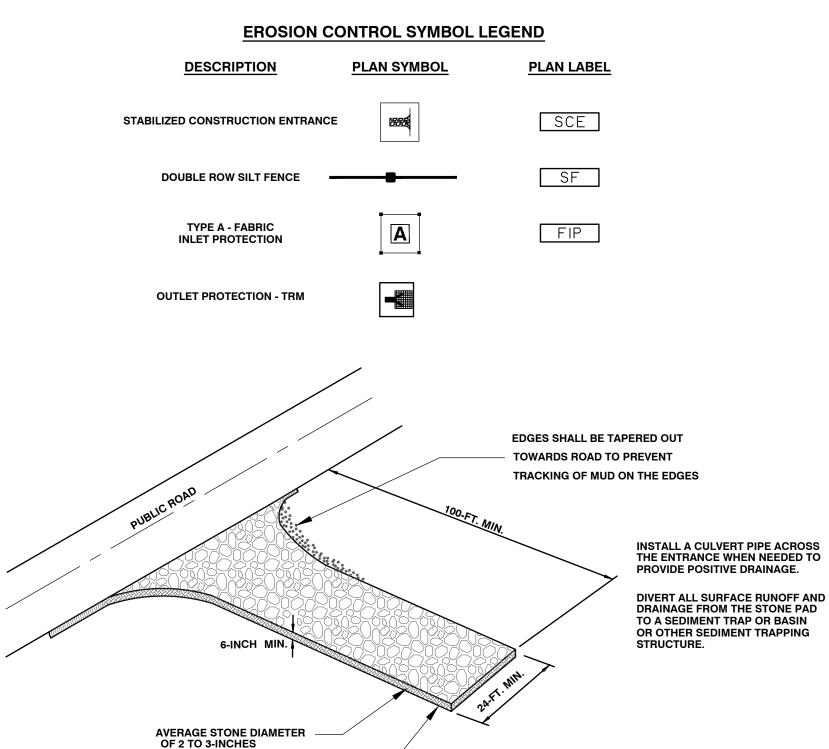






#### LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
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EPSC	EROSION PREVENTION AND SEDIMENTATION CONTROL
FDA	UNITED STATES FOOD AND DRUG ADMINISTRATION
FGM	FLEXIBLE GROWTH MATRIX
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MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
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PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP



FILTER FABRIC

NOTES:

MATERIALS:

STEEL POSTS

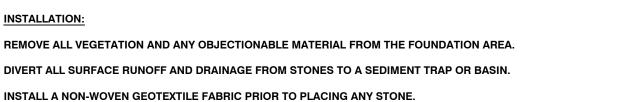
INSTALLATION

CLEANOUT

# STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE





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

WITH A 6-INCH MINIMUM DEPTH

WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.

UNDERLINING NON-WOVEN GEOTEXTILE FABRIC

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.

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

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 SCHEEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE

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:**

NOTES:

INSTALLATION:

WHEN AND WHERE TO USE IT:

**IMPORTANT CONSIDERATIONS:** 

MOVING DIRECTLY ONTO A PUBLIC ROAD.

AMOUNT OF MUD PICKED UP BY VEHICLES.

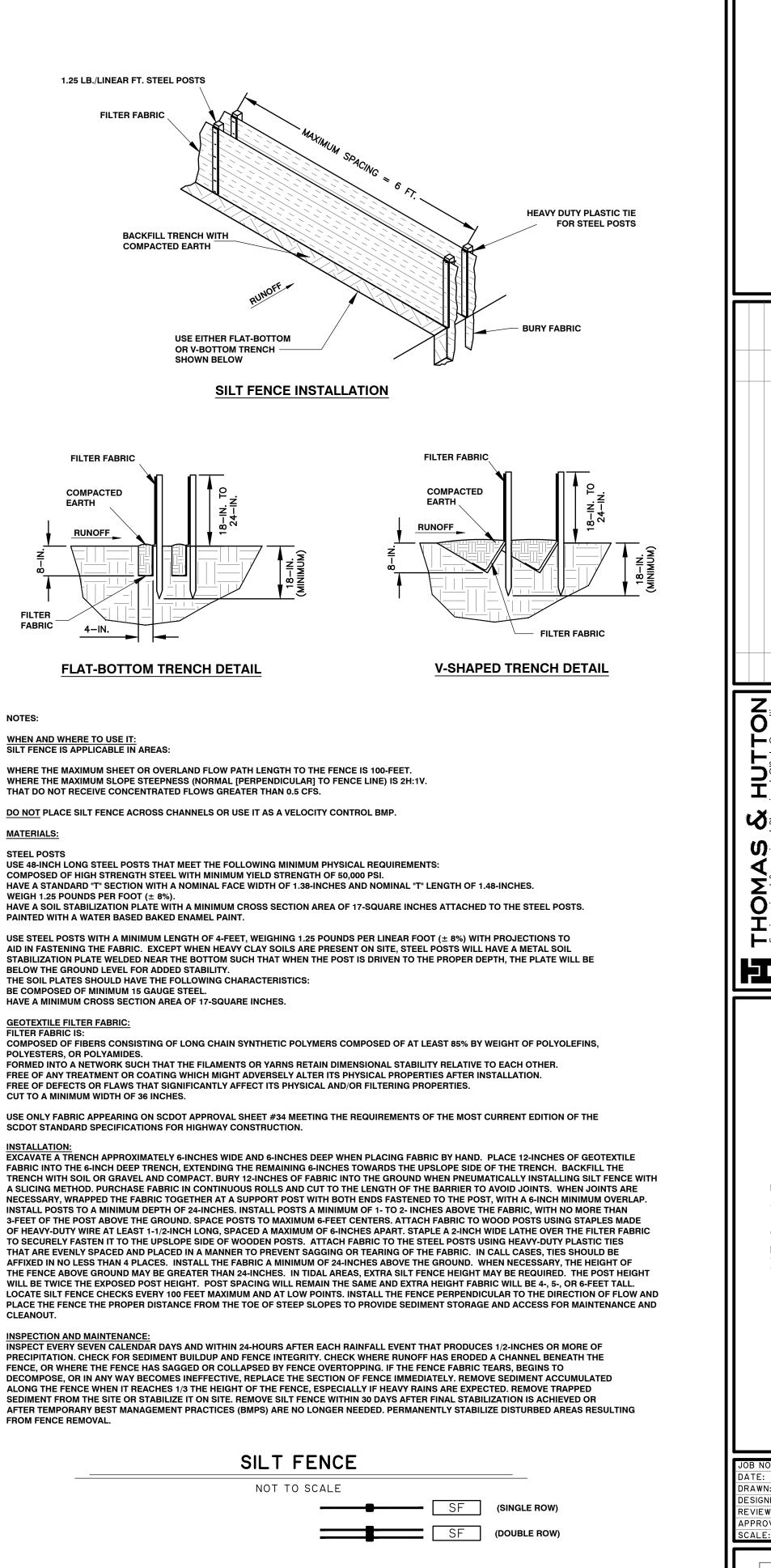
INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS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

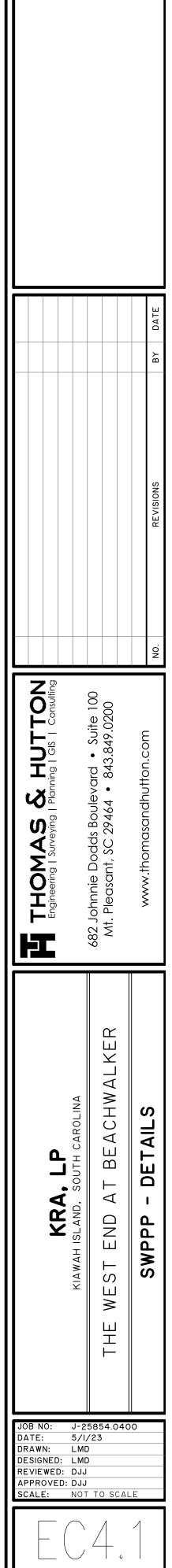
WASH OR REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES.

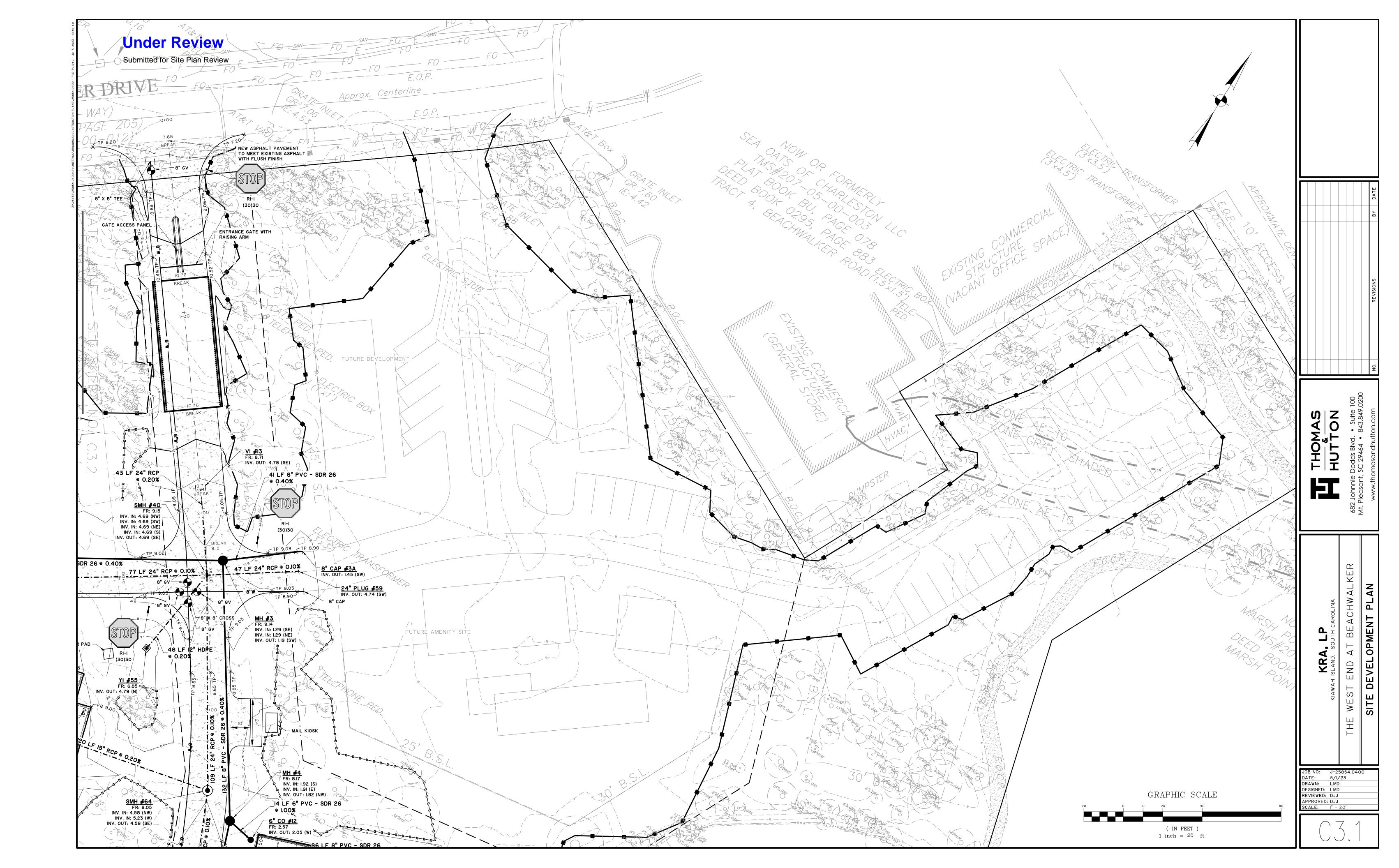
FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

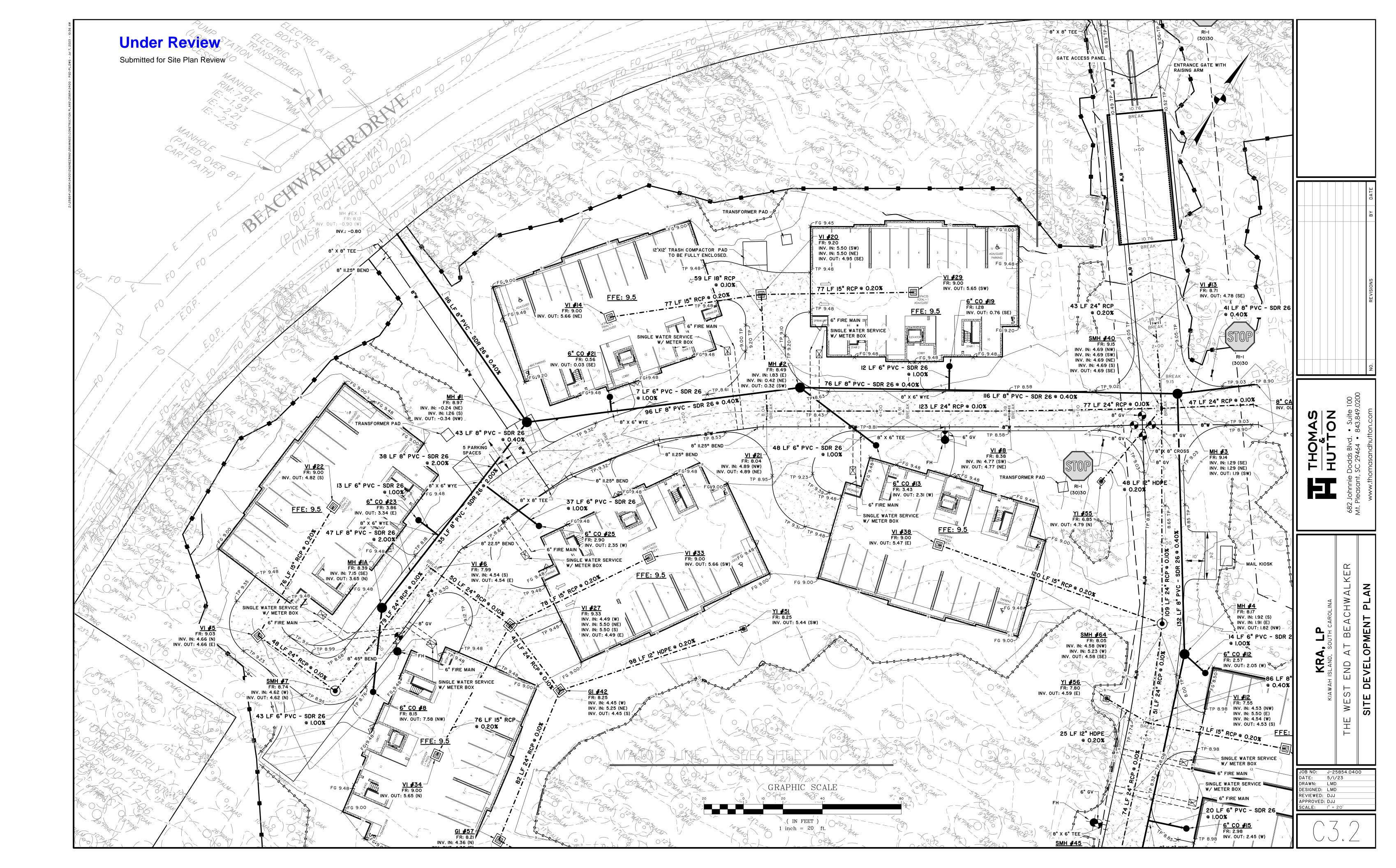
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

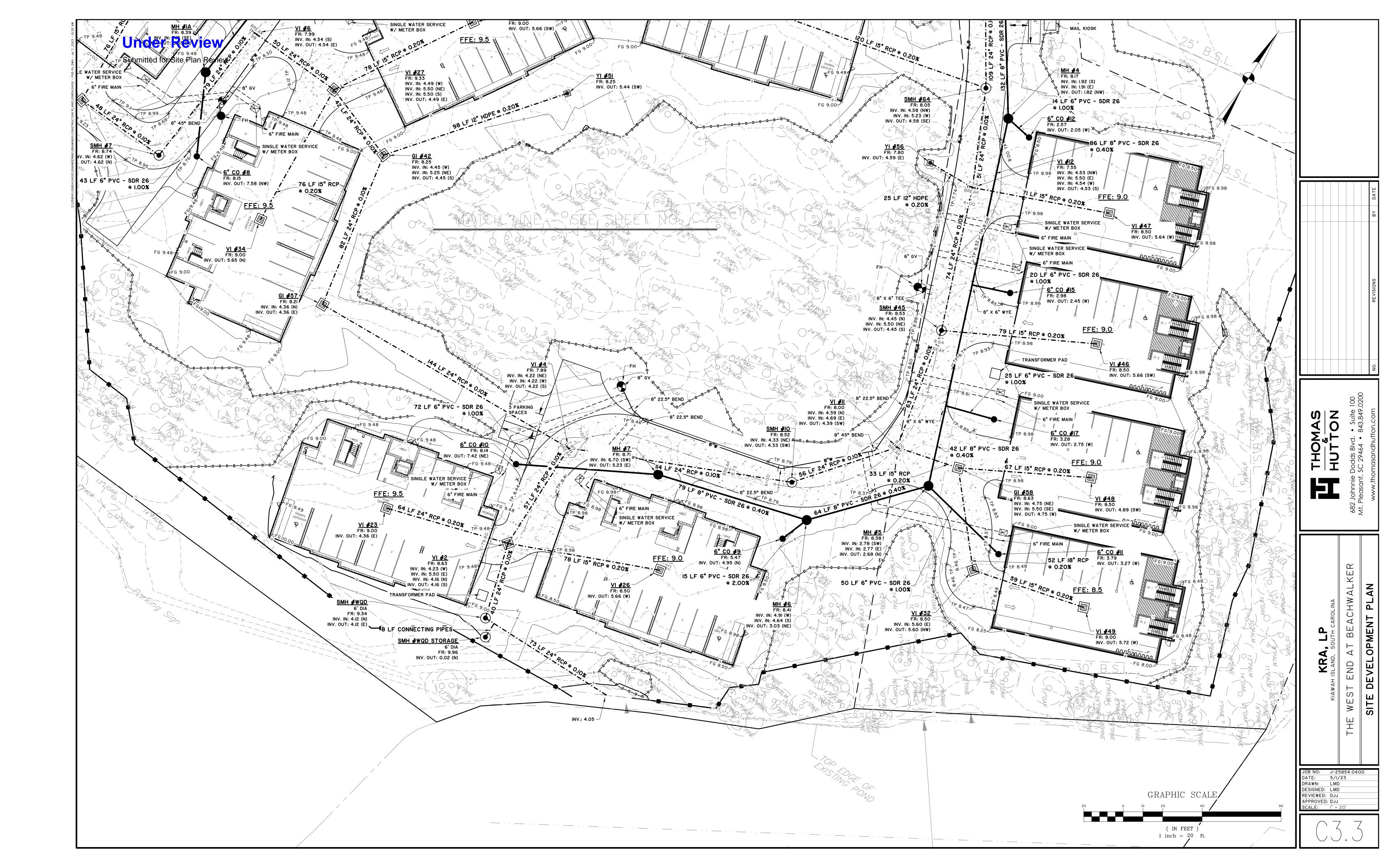
REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

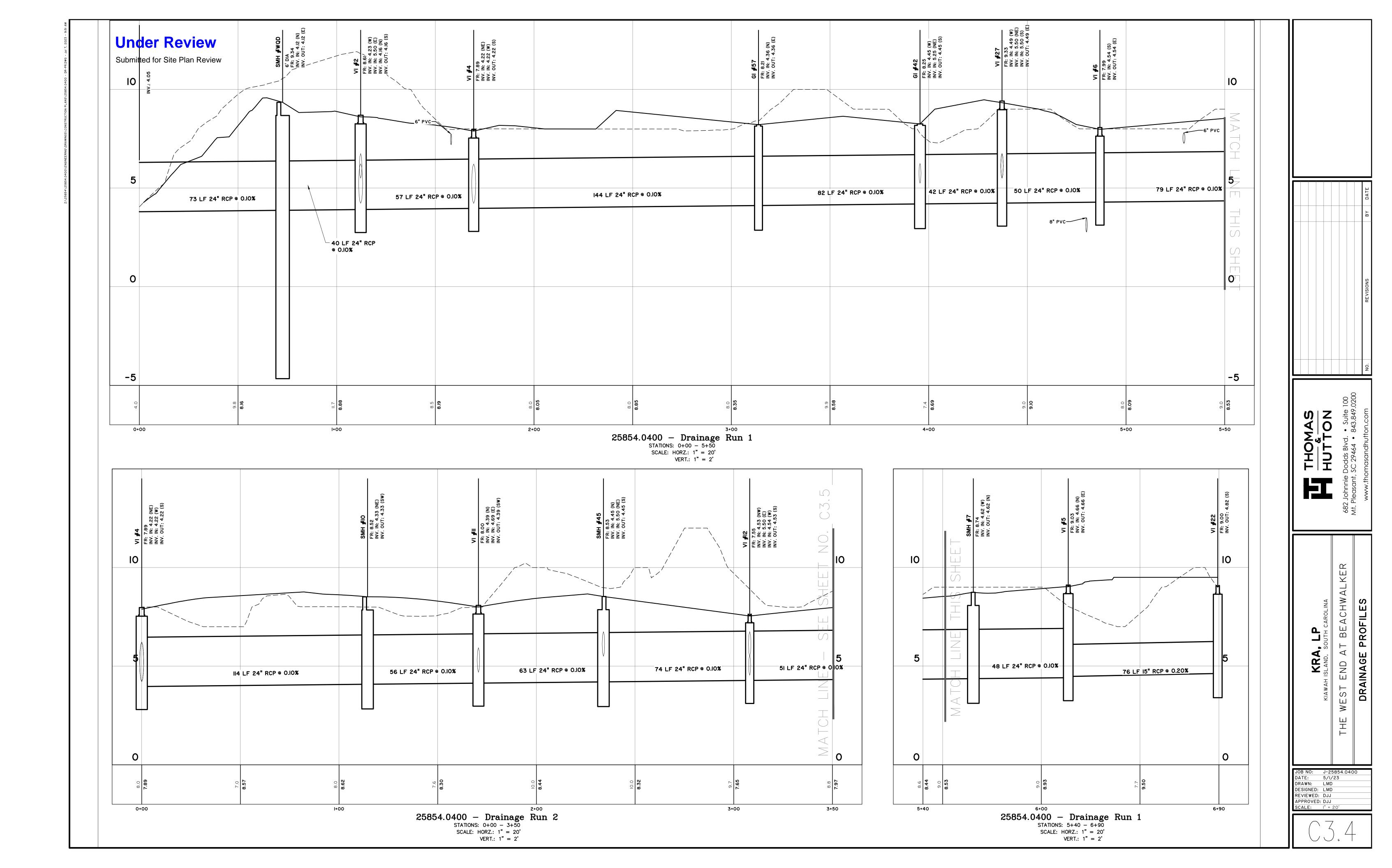


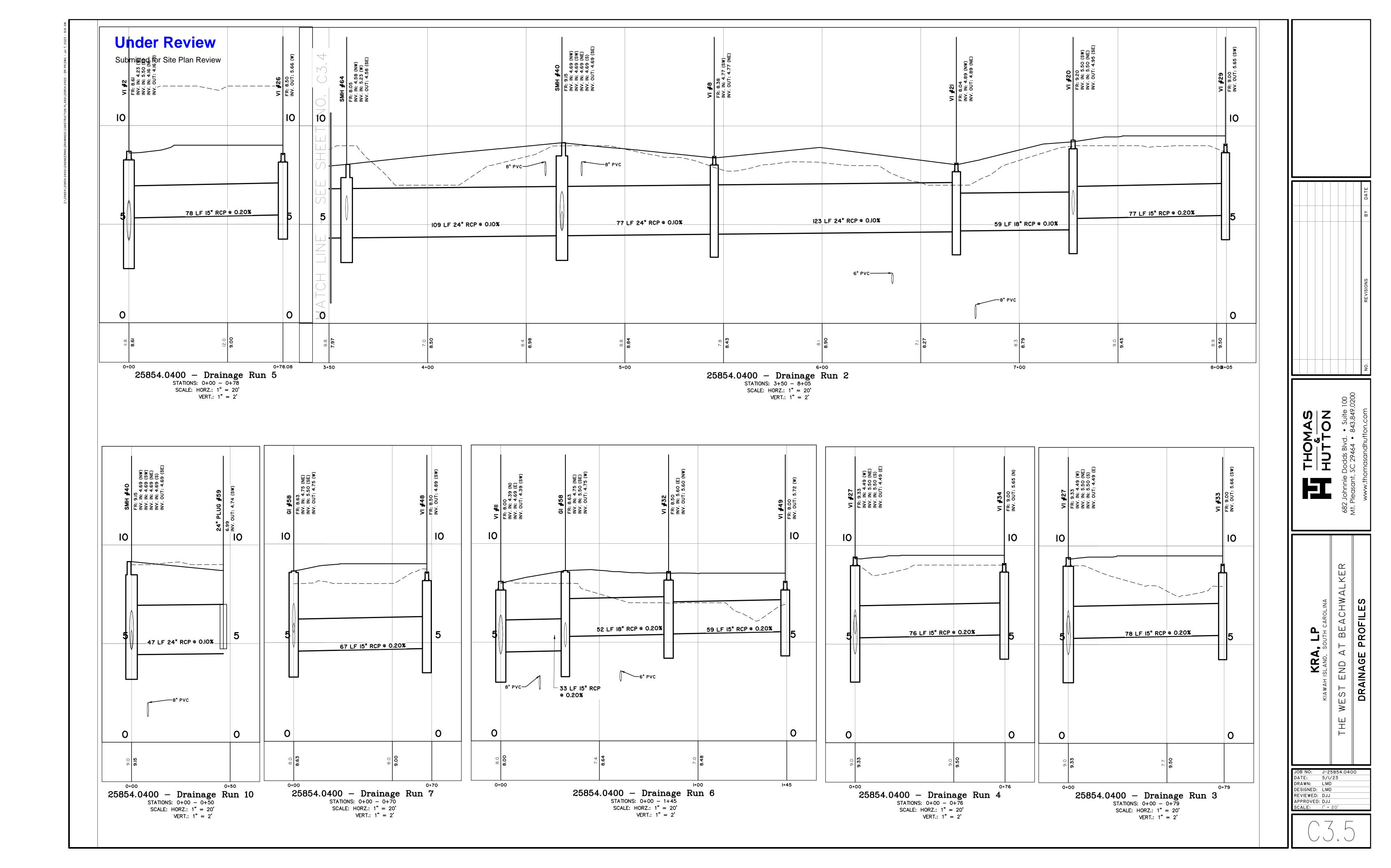


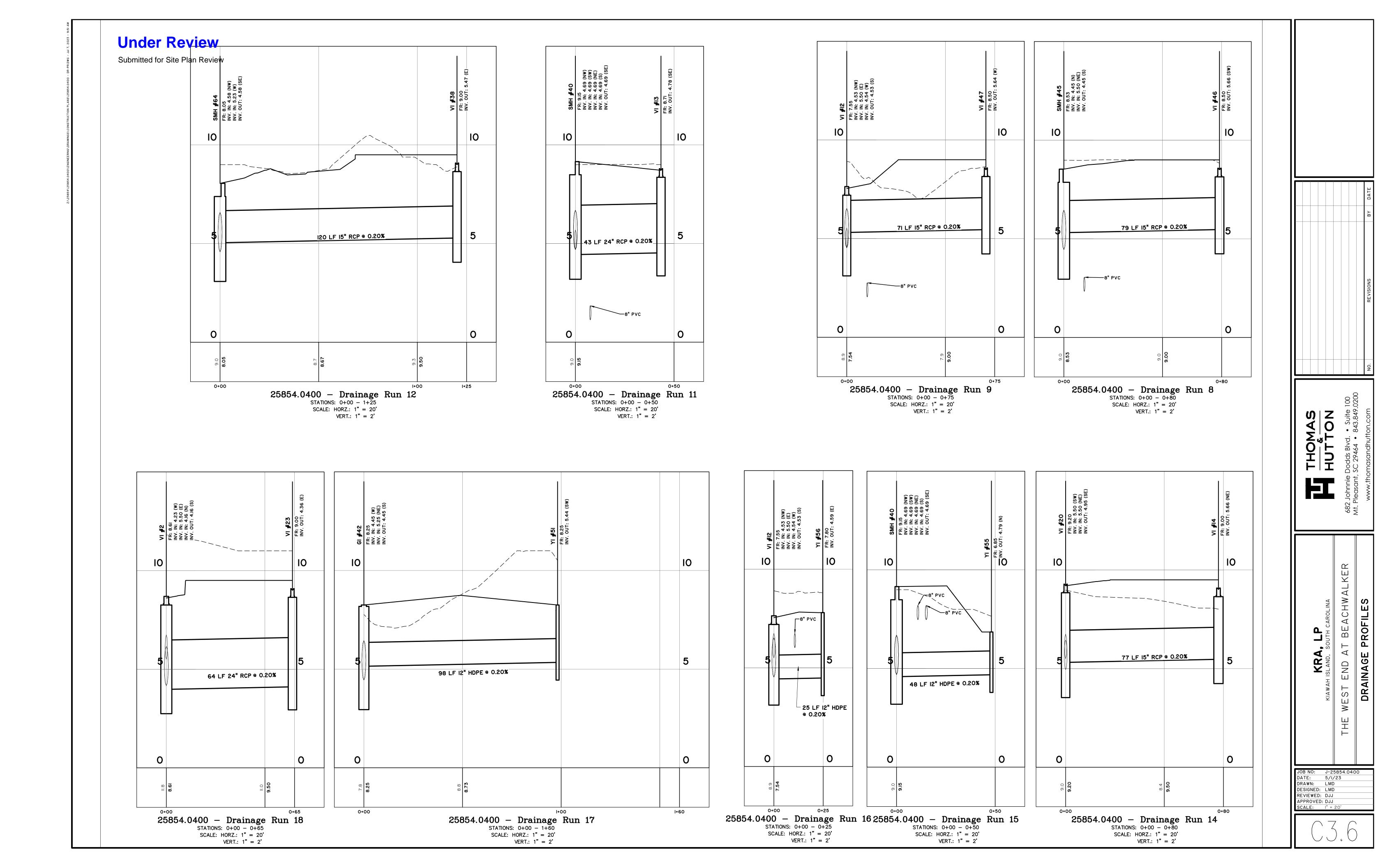


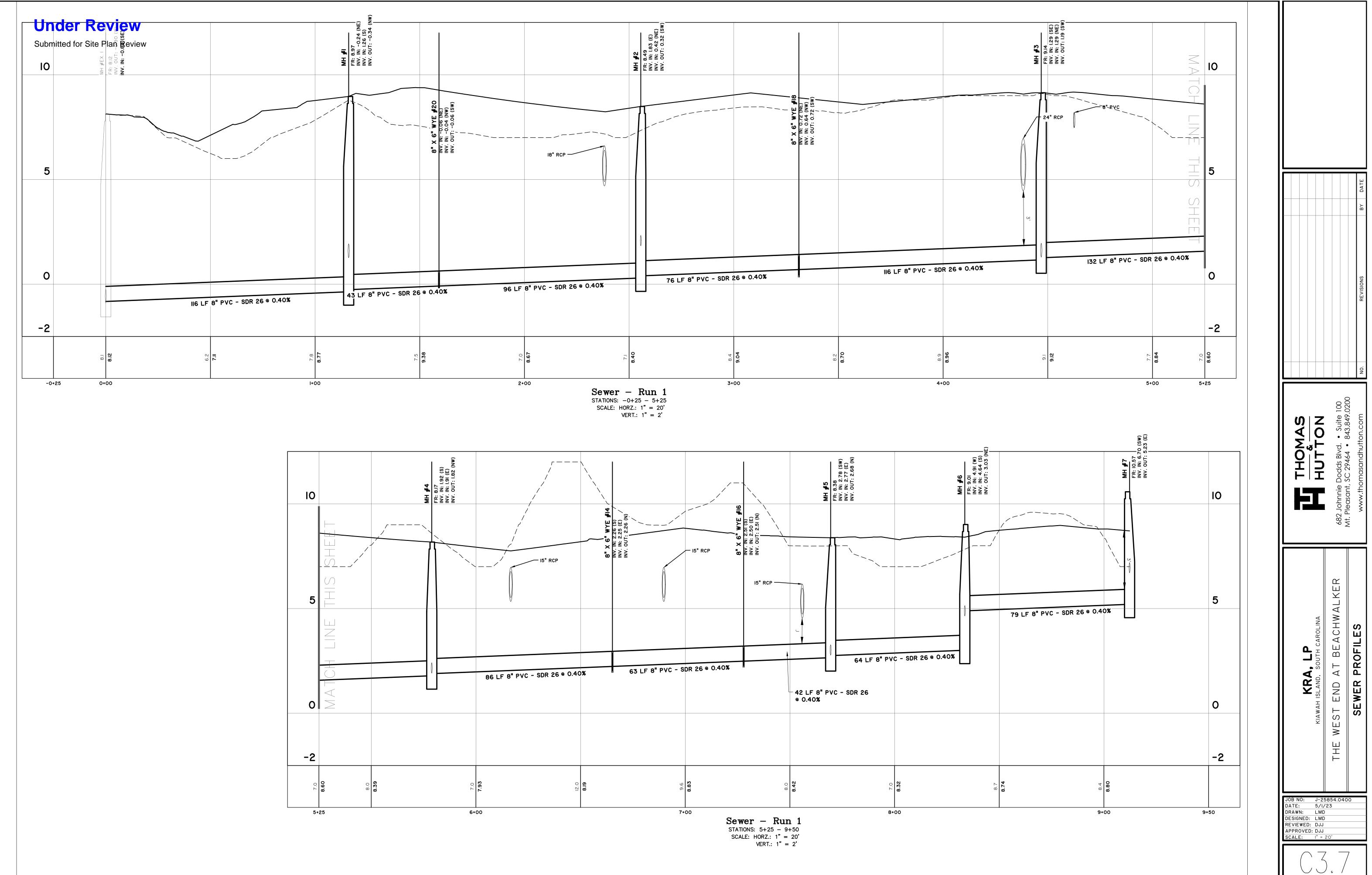


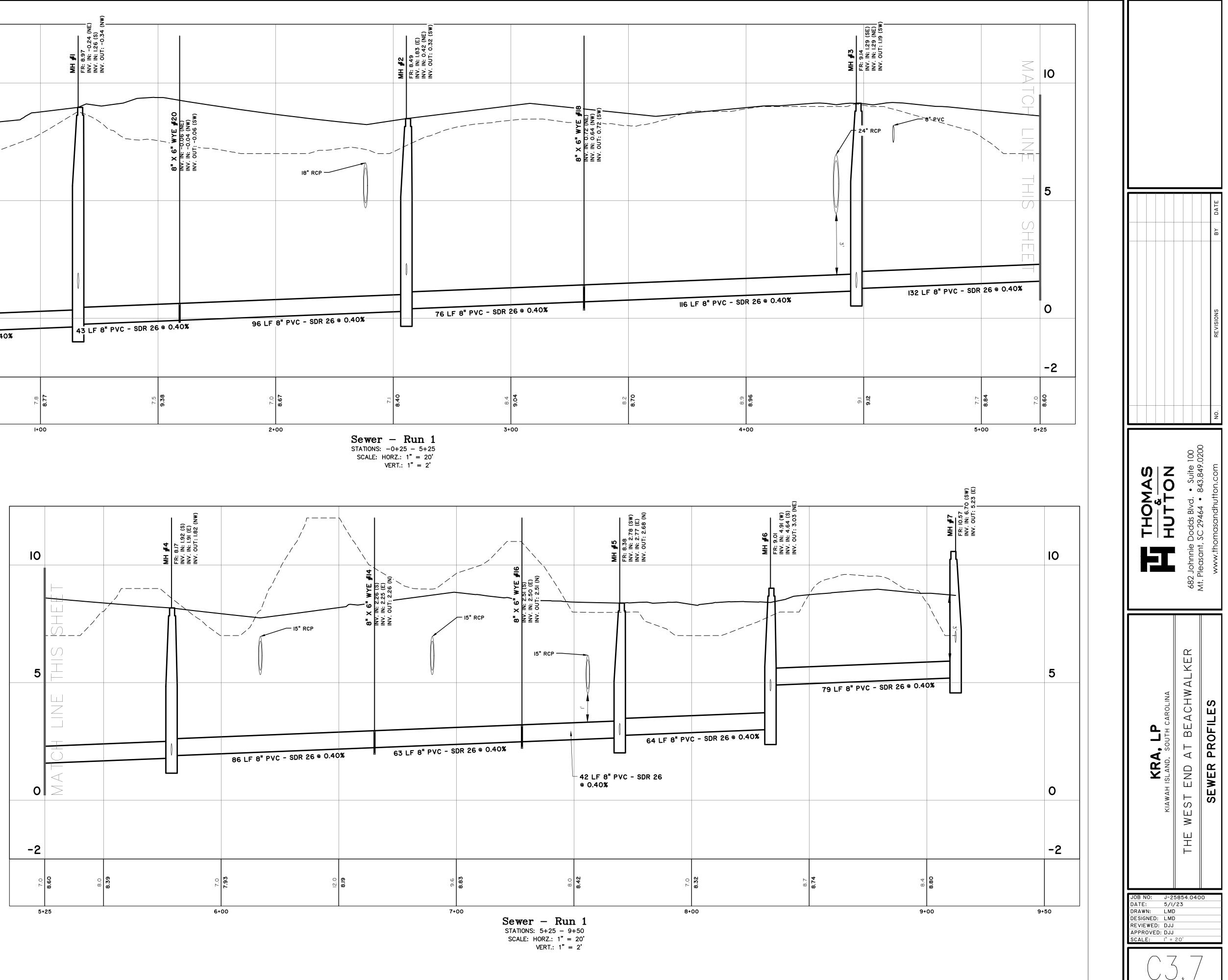


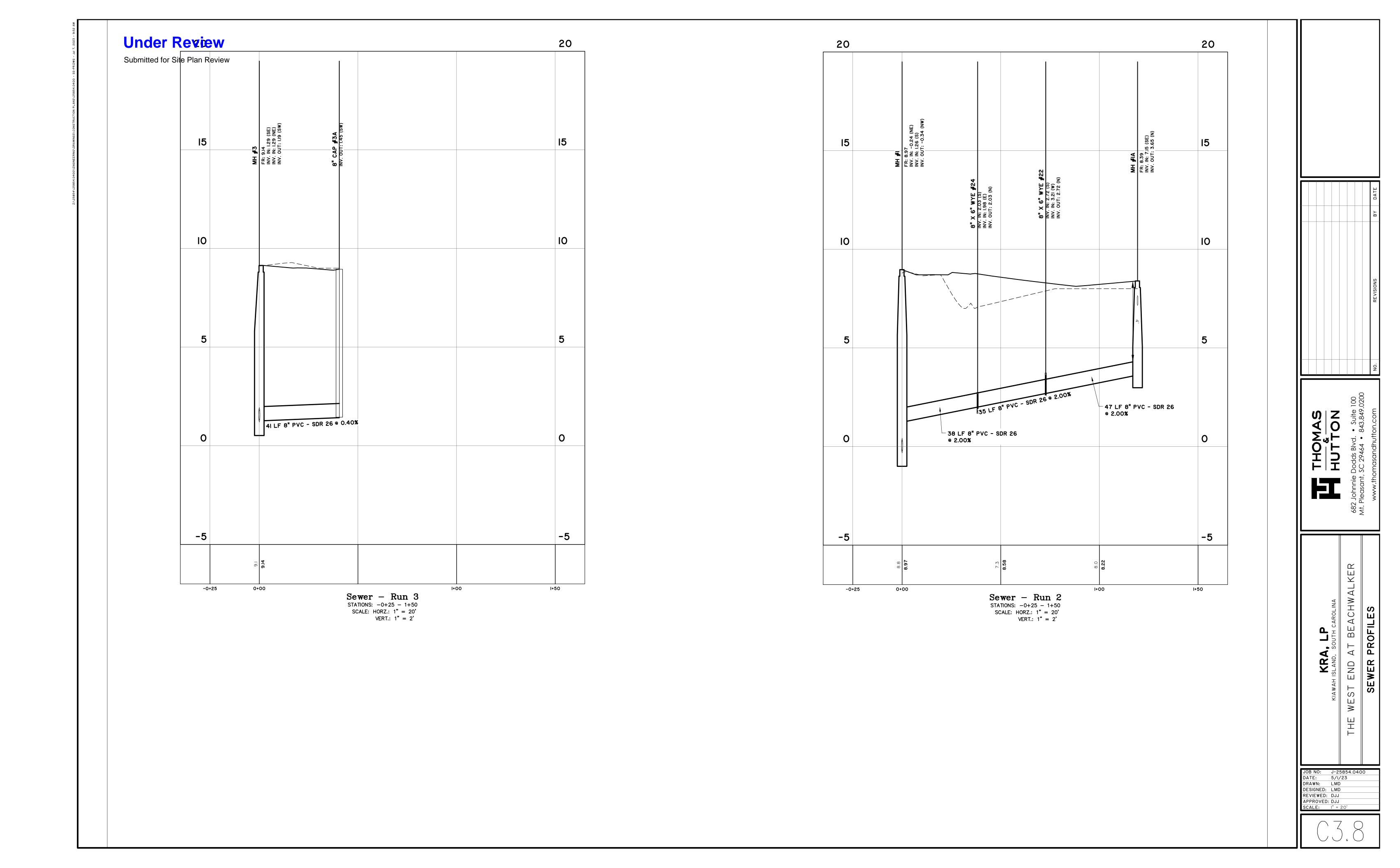


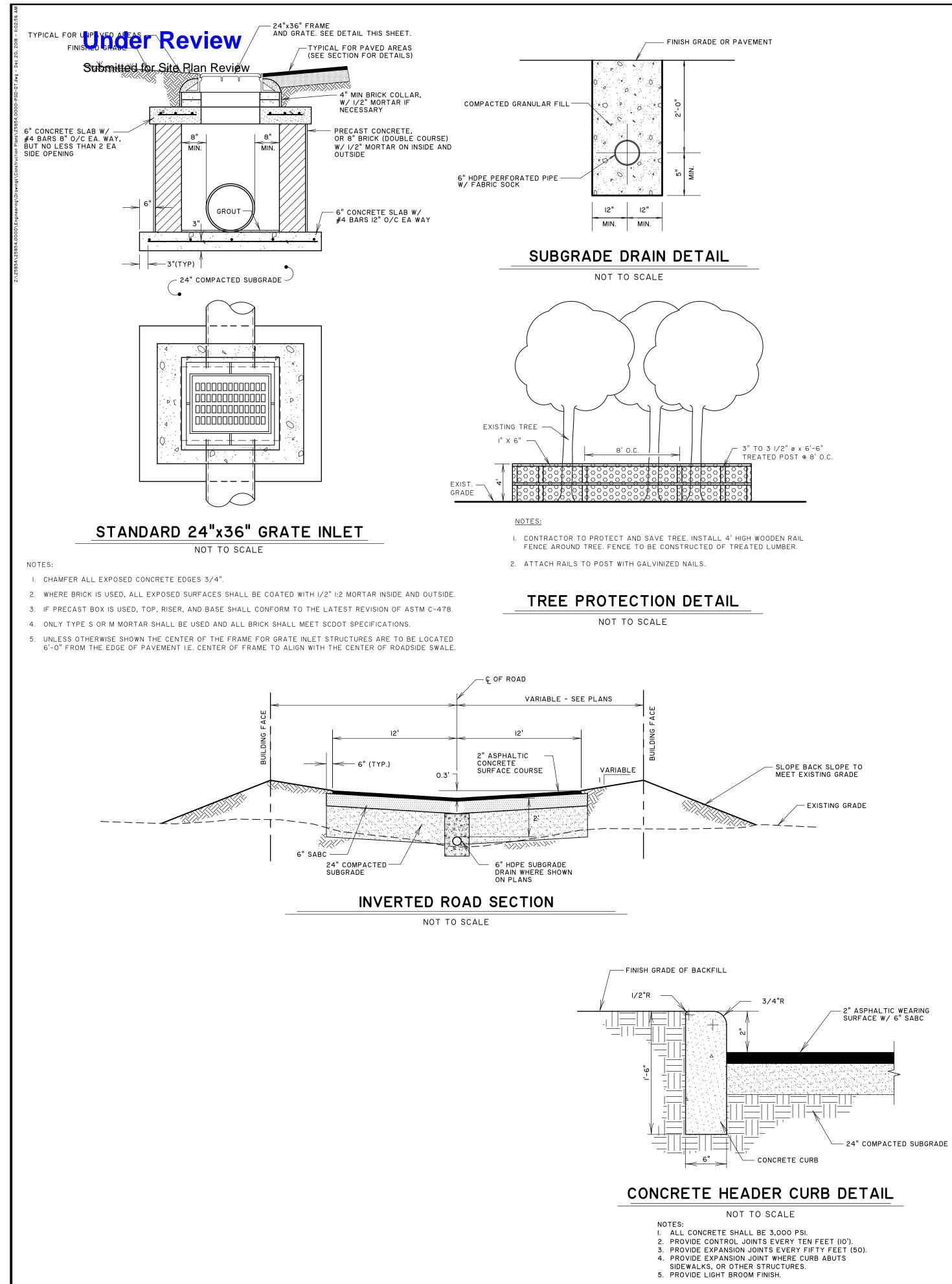


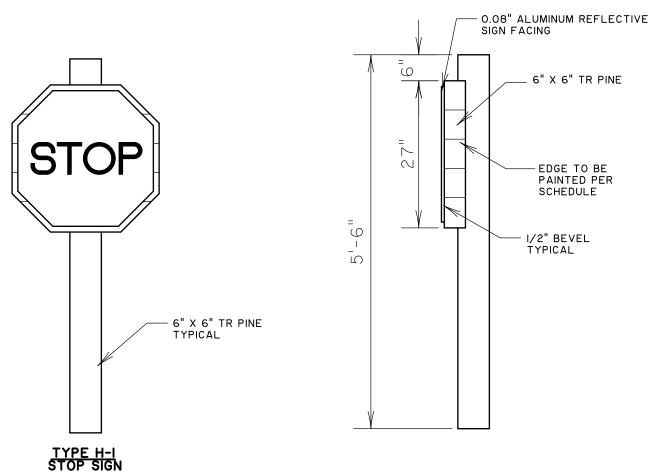






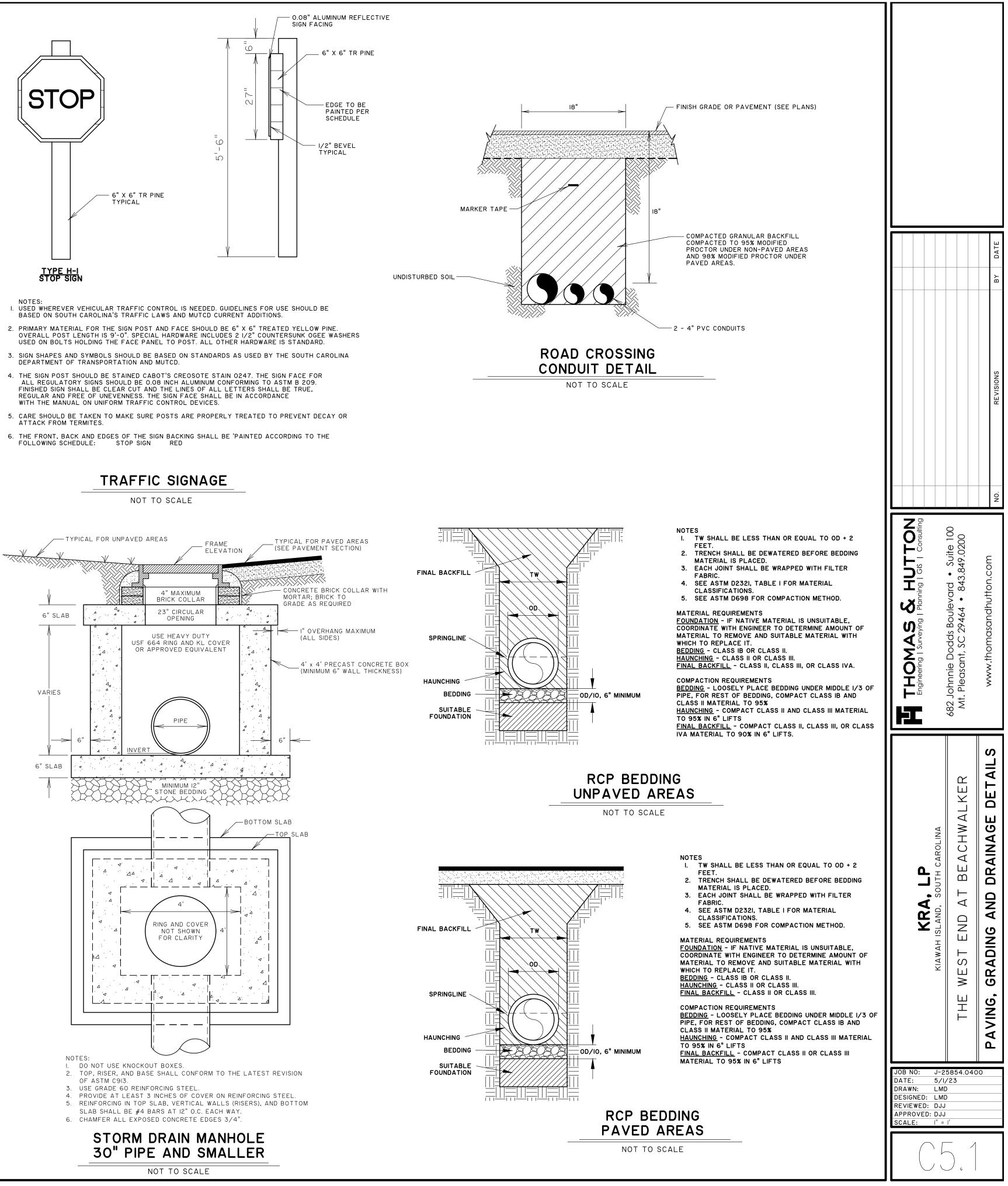






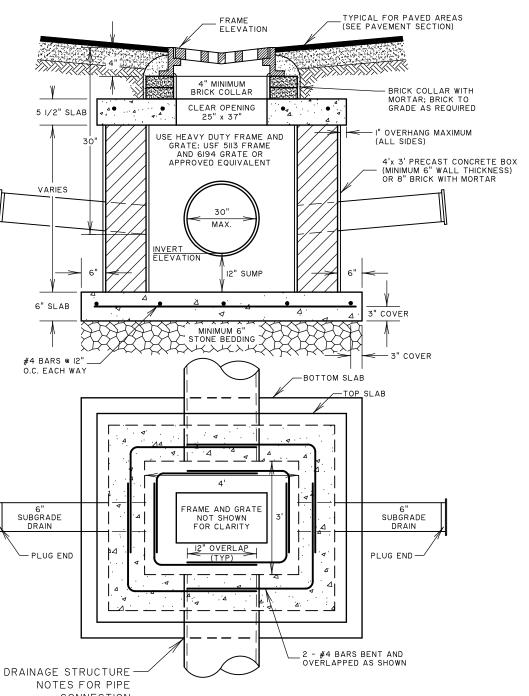
- USED ON BOLTS HOLDING THE FACE PANEL TO POST. ALL OTHER HARDWARE IS STANDARD.
- ALL REGULATORY SIGNS SHOULD BE 0.08 INCH ALUMINUM CONFORMING TO ASTM B 209. FINISHED SIGN SHALL BE CLEAR CUT AND THE LINES OF ALL LETTERS SHALL BE TRUE, REGULAR AND FREE OF UNEVENNESS. THE SIGN FACE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 5. CARE SHOULD BE TAKEN TO MAKE SURE POSTS ARE PROPERLY TREATED TO PREVENT DECAY OR ATTACK FROM TERMITES.

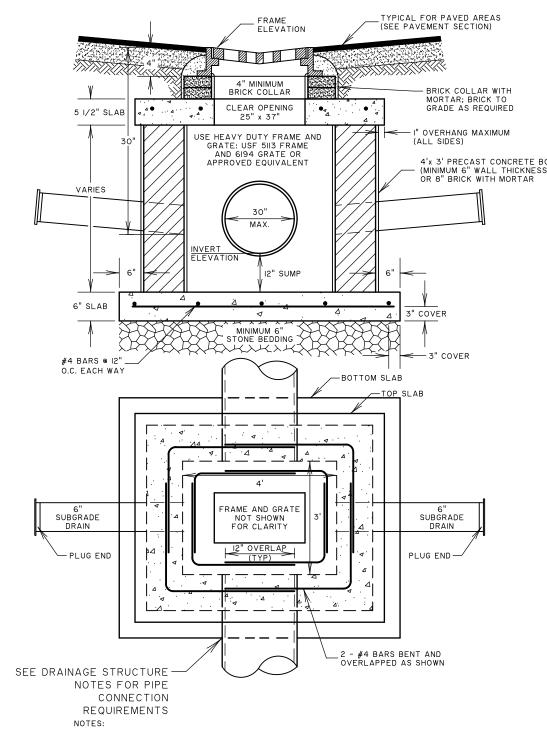




# **Under Review**

Submitted for Site Plan Review



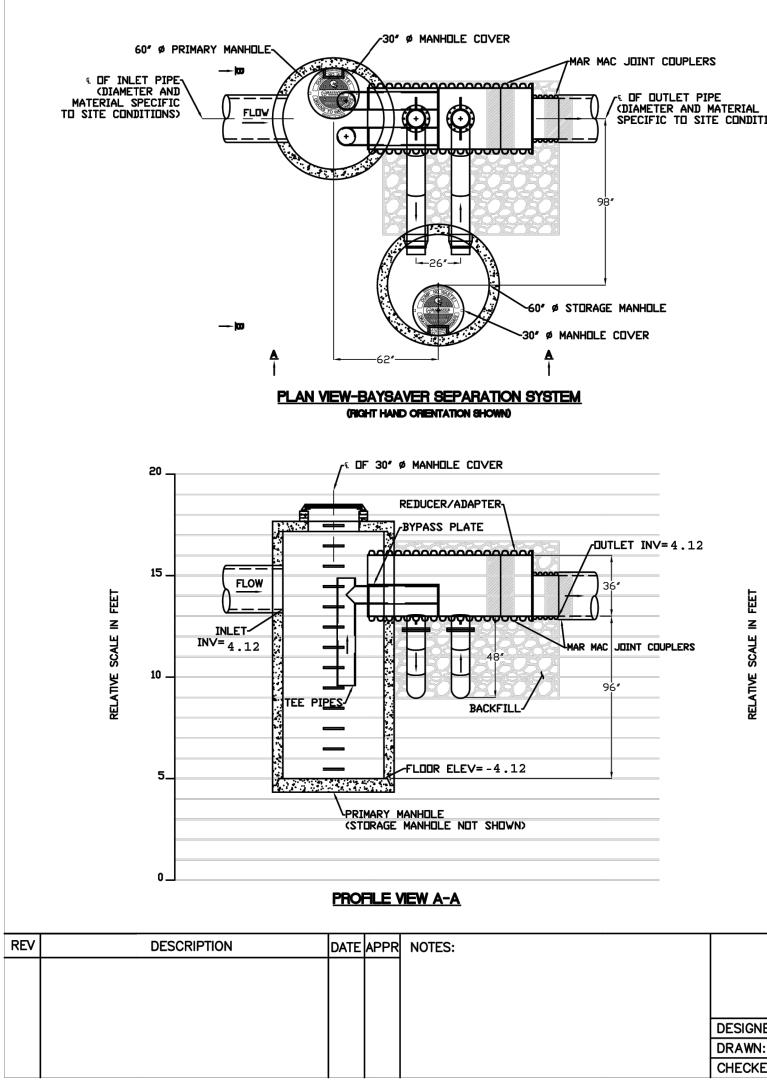


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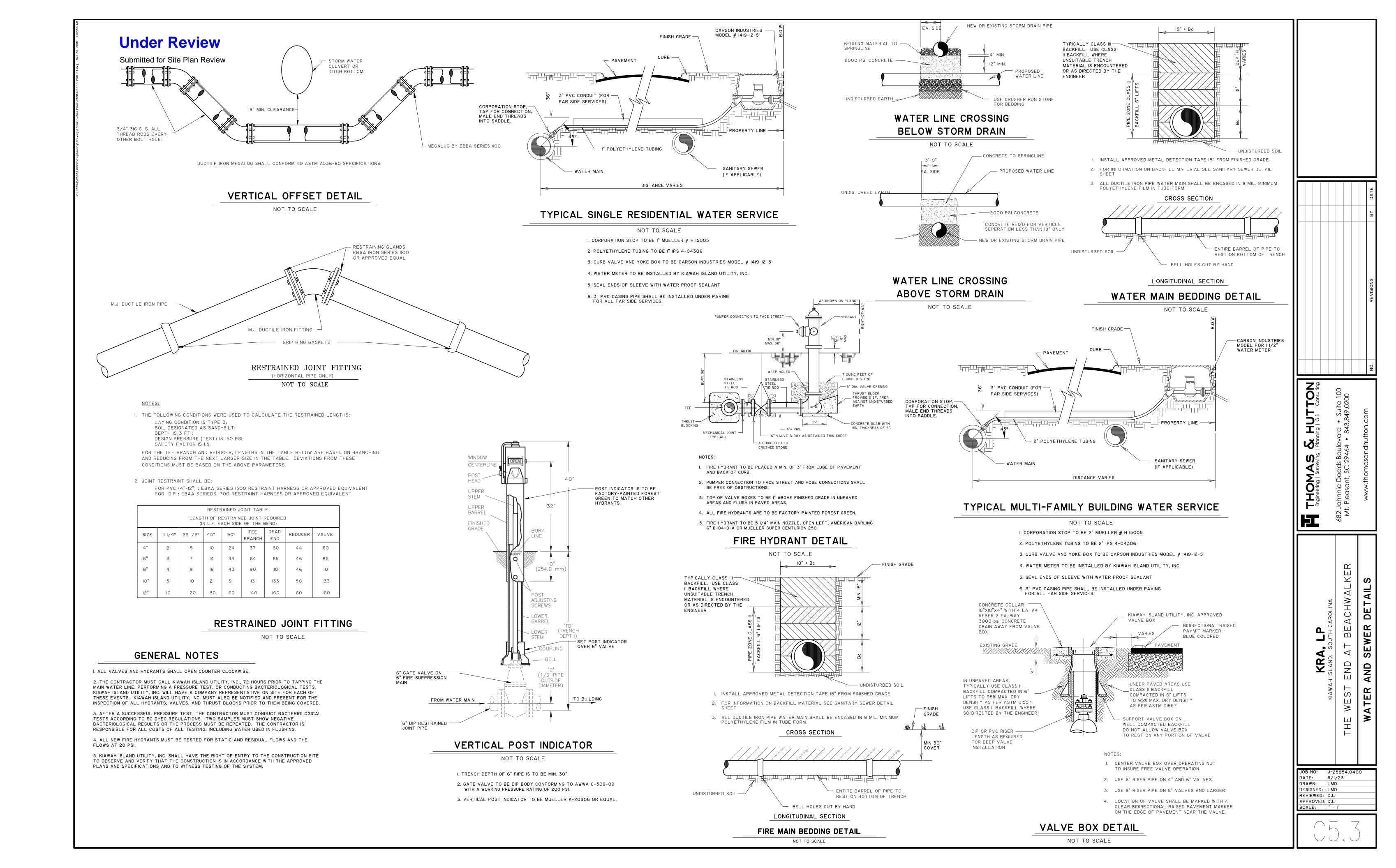
I. ORIENT GRATE SUCH THAT 36" DIMENSION IS PARALLEL TO THE DIRECTION OF TRAFFIC FLOW. 2. FOR GRATE INLETS NOT IN PAVEMENT, INSTALL IO LF OF SUBGRADE DRAIN STUBBED OUT AND CAPPED AS SHOWN. 3. USE VALLEY INLET DETAIL FOR ALL GRATE INLETS IN PAVEMENT AREA.

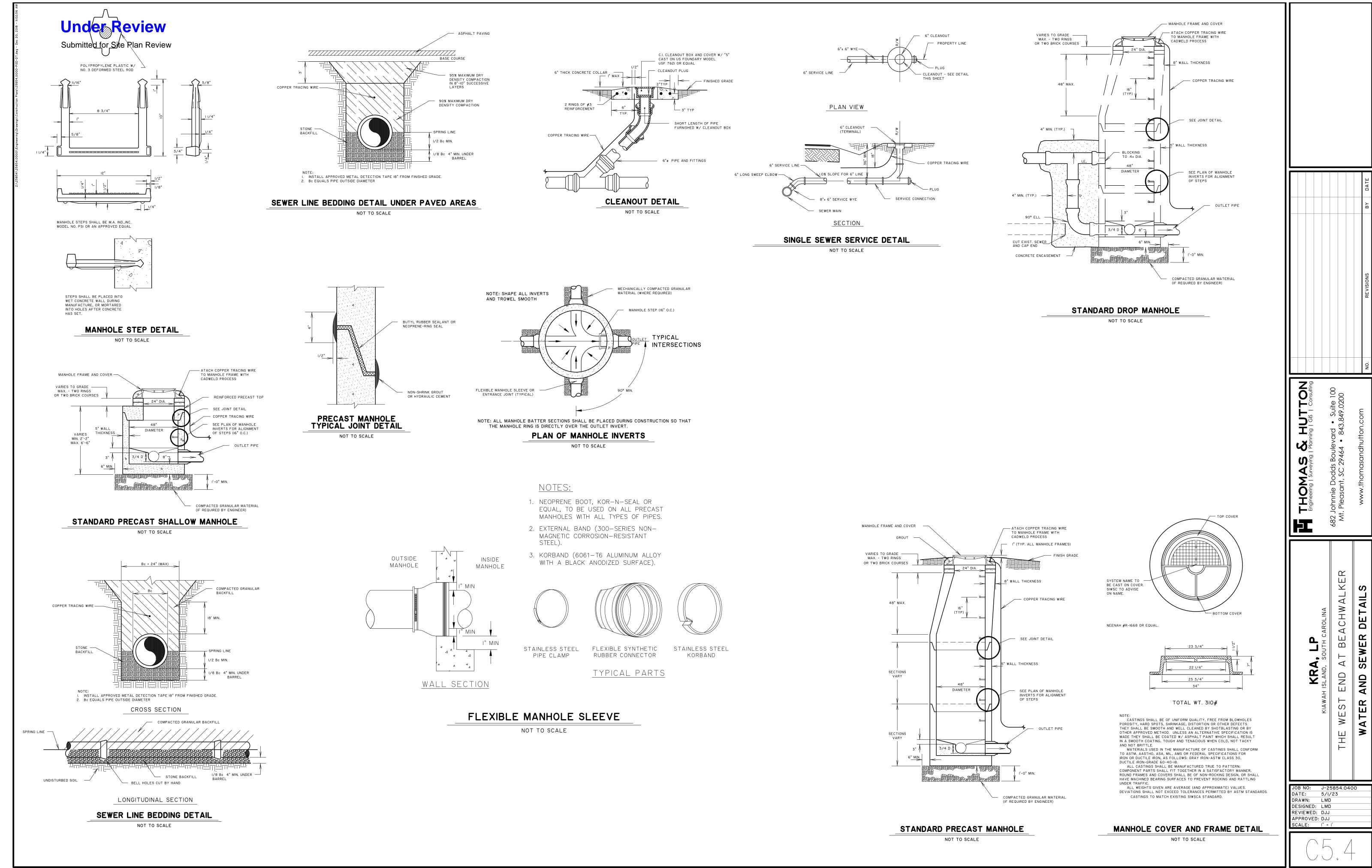
VALLEY INLET DETAIL

NOT TO SCALE



				JOB N DATE DRAW DESIG REVIE	: 5/1/2 N: LMD NED: LMD WED: DJJ OVED: DJJ	THE WEST 824.040	PAVING GRADING AND DRAINAGE
SIGNED: AWN: ECKED:	BAYSAVER         TECHNOLOGIES         800-229-7283         www.baysaver.com         TEP       DATE:         5/28/15         EKH       SCALE:         N.T.S.         PR       DWG NO:         3K	3K BAYSEP SYSTEM [				KER Mt. Pleasant, SC 29464 • 84	DETAILS www.thomasandhutton.com
10 - KETYIIA 5-	10.75" DD CONNECTING PIPES INV= 0.12 FLOOR ELEV=-4.12 STORAGE (PRIMARY MANHOLE NO				ning   GIS   Consulting	843.849.0200	tton.com
15 - 15 - 15 - 15 - 10 - 10 - 10 - 10 -	BAYSAVER SEPARATOR UNIT	ANHOLE COVER	5S				
	1. MANHOLE PROVIDE 2. SEAL TH USING R 3. THE BAY UNIT, G REDUCER 4. RIGHT HA DRIENTA PIPES 1: 5. SEE BAY INSTRUC 6. USE NOD BAYSEPA 7. BACKFIL AN ELEY SEPARAT 8. 12" COV	S SHOWN REPRESENT STANDARD D BY OTHERS. E CONNECTING PIPES INTO THE JBBER BOOTS/GASKETS. SAVER SEPARATION SYSTEM INCO CONNECTING PIPES, (2) FERNCO ADAPTER, AND (2) MARMAC JOIN ND ORIENTATION SHOWN, FOR LE FION ROTATE STORAGE MANHOLE	STORAGE MANHOLE LUDES THE SEPARATOR D COUPLERS, (1) IT COUPLERS, (1) IT COUPLERS, IFT HAND AND CONNECTING TALLATION ILET PIPE AND IOLE. SHOULD BE USED TO HE CROWN OF THE D SURFACE.				
RIAL NDITIONS)	INLET PIF OUTLET P OUTLET P PRIMARY N STORAGE	E INVERT: E ID AND MATERIAL: PE INVERT: PE ID AND MATERIAL: ANHOLE RIM ELEVATION: MANHOLE RIM ELEVATION: JN (RIGHT OR LEFT): TES:	4.12 24" RCP 4.12 24" RCP 9.34 9.96				



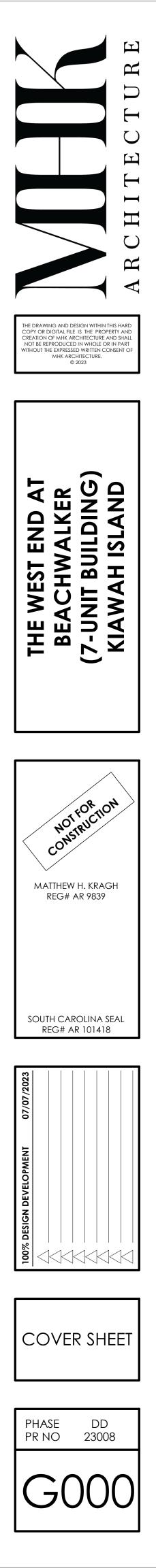




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# THE WEST END AT BEACHWALKER

(7-UNIT BUILDING) KIAWAH ISLAND



	Sub	mitted for Site Pla	n Review				
PARCEL	MAX # OF UNITS (R)	MAX UNITS PER BLDG (R)	MAX HEIGHT	MAX STORIE		c) ĒF	• ELECTRICAL
11	60	7	50'	4		_	
*	22 (22.92 PER ACREAGE)	4	35'	2.5			transfor <i>n</i>
TOTAL	82						
PARCEL	2 BDRM UNI	TS 3 BDRM UNIT	s tota	L UNITS	TOTAL SF	EST. BEDS	
	8	48		56	187,704	160	
PARCEL 11	U U				28,800	32	
PARCEL 11 PARCEL *	16	0		16	20,000	02	

LOT COVERAGE - PARCEL *					
LOT HIGHLAND AREA*		83,200 SQFT			
MAX LOT COVERAGE	33%	27,456 SQFT			
BUILDINGS	16.85%	14,019 SQFT			
PAVEMENT**	7.13%	5,939 SQFT			
TOTAL COVERED	23.98%	19,958 SQFT			

LOT COVERAGE - PARCEL 11				
	247,563 SQFT			
33%	81,695 SQFT			
22.26%	55,096 SQFT			
8.73%	21,619 SQFT			
30.99%	76,715 SQFT			
	33% 22.26% 8.73%			

\*LOT ACCESS EXEMPT FROM SQUARE FOOTAGE

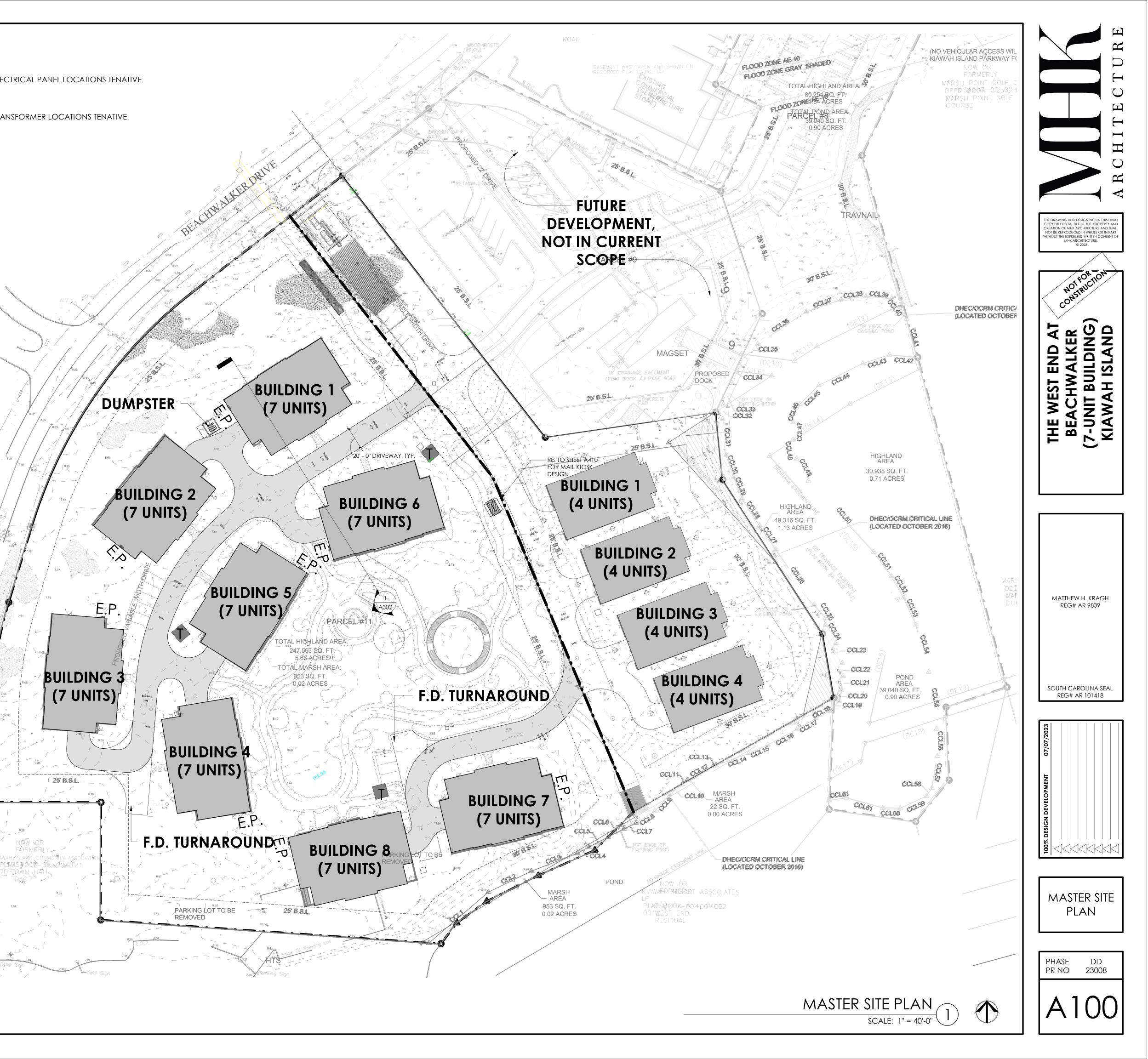
## \*\* WALKING PATHS, FD TURNAROUND, AND PERVIOUS MATERIAL EXCLUDED

ACHINALIKER DRIVE

AH / SLAND

PARCEL 11 LOT COVERAGE CALCULATIONS

TOTAL LOT COVERAGE =	76,715 SQFT	
TRASH COLLECTION PAD	165 SQFT	
MAIL KIOSK PAD	50 SQFT	
PAVED ROAD	21,304 SQFT	
PAVEMENT		
PUMP HOUSE	100 SQFT	
BUILDINGS COVERAGE=	55,096 SQFT (6,887 SQFT X 8 TOTAL BU	ILDINGS)





A200



# **Under Review**

Submitted for Site Plan Review



