

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: SEPTEMBER 13, 2023

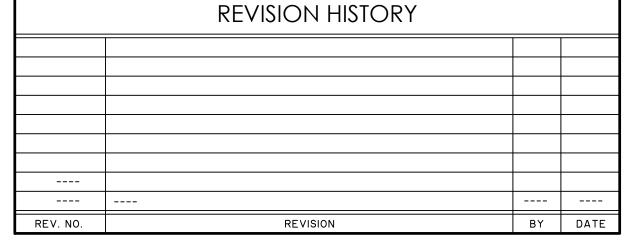
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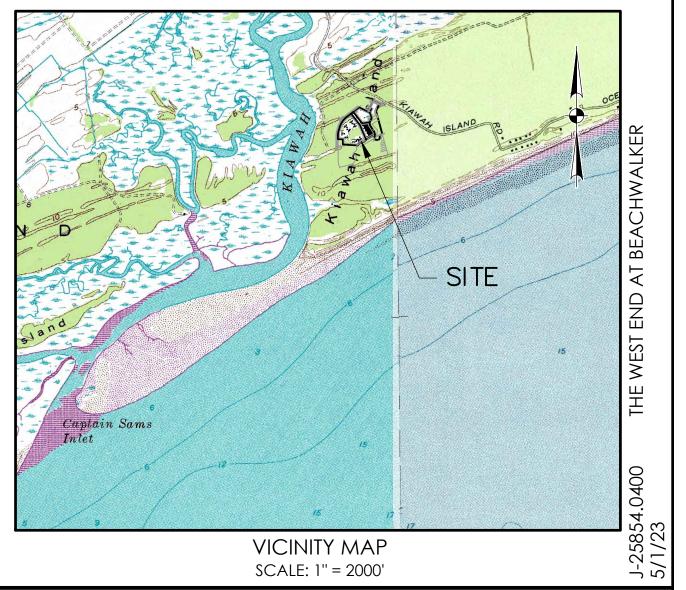
PREPARED BY:











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SUBMITTA	L HISTORY
TOKI	9-13-23
TOKI	7-7-23
DHEC	6-29-23
SUBMITTED TO	DATE



THOMAS & HUTTON Engineering | Surveying | Planning | GIS | Consulting

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		PARKING SPACES REQUIRED			
BUILDING **	<u>USEAGE</u>	PARKING REQUIREMENT	<u>C.A</u>	ALCULATION	SPACES
ı	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	<u>2 BDRM</u> IXI.75=I.75	3 BDRM - 6X2=I2 -	14
2	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
3	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
4	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
5	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
6	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
7	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=I.75	6X2=I2 -	14
8	MULTIPLE FAMILY	1.75 OR 2 SPACES PER BEDROOM TYPE	IXI.75=1.75	6X2=I2 -	14
<u>'</u>				TOTAL SPACES REQUIRED:	II2
		ACCESSIBLE SPACES REQUIRED:		112/25	5
		PARKING SPACES PROVIDED			
ITEM	PROPOSED LOCATION		ACCE	SSIBLE SPACES	SPACES*
ı	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
2	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
3	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
4	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
5	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
6	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
7	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
8	SPACES P	ROVIDED WITHIN BUILDING FOOTPRINT		ı	15
ON SITE	SPACES PROVID	ED OUTSIDE BUILDINGS (BY BUILDING 3 & 8)			8
<u> </u>				TOTAL SPACES PROPOSED: (INCLUDES ACCESSIBLE)	128

**SEE	MHK	SITE	COVERAGE	EXHIBIT	FOR	BUILDING	NUMBERING

	>	* PARCEL - PARKING	TABLE_	
		PARKING SPACES REQUIRED		
BUILDING **	<u>USEAGE</u>	PARKING REQUIREMENT	CALCULATION	SPACES
I-4 (4-UNIT)	MULTIPLE FAMILY	I.5 SPACES PER EFFICIENCY OR I BEDROOM PER DWELLING UNIT	# BDRM 40XI.5=60	60
			TOTAL SPACES REQUIRED:	60
		ACCESSIBLE SPACES REQUIRED:		3
		PARKING SPACES PROVIDED		
ITEM PROPOSED LOCATION ACCESSIBLE SPACES		ACCESSIBLE SPACES	<u>SPACES</u> *	
I-4 (4-UNIT)	I-4 (4-UNIT) SPACES PROVIDED WITHIN BUILDING FOOTPRINT		4	60
			TOTAL SPACES PROPOSED: (INCLUDES ACCESSIBLE)	60
*INCLUDES ACCESSIBLE SPACES ACCESSIBLE SPACES PROVIDED:			4	

SEWER LEGEND			
DESCRIPTION	EXISTING	PROPOSED	
GRAVITY PIPE	ss	_	
SINGLE SERVICE LATERAL			
DOUBLE SERVICE LATERAL	<u> </u>	> —	
MANHOLE	\bigcirc	•	
CLEANOUT	OH	•4	

	<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	
СРР	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			

DESCRIPTION

	<u></u>	
WATER MAIN	IO"W	IO"W
SINGLE SERVICE LATERAL		
DOUBLE SERVICE LATERAL	<u></u>	>
VALVE AND BOX	\otimes	•
FIRE HYDRANT W/VALVE & BOX	\otimes - φ -	⊗ •
POST HYDRANT) T)
REDUCER		•
BACKFLOW PREVENTOR		
CROSS		1_1
TEE		I ⁻ I
90° BEND - HORIZONTAL	٦	_1
45° BEND - HORIZONTAL	/	/
22-½° BEND - HORIZONTAL	/	/
II-¼° BEND - HORIZONTAL	1	1
BEND - VERTICAL		
CAP		

EXISTING

		1				
	DRAINAGE LEGEND					
DES	SCRIPTION	<u>EXISTING</u>	<u>PROPOSED</u>			
PIPE						
DITC	Н					
CURE	3 INLET					
GRA ⁻	TE INLET					
JUNG	CTION BOX	0				
оиті	LET STRUCTURE					

<u>PROPOSED</u>

OTHER UTILITIES LEGE

DESCRIPTION	<u>EXISTING</u>
NATURAL GAS	——————————————————————————————————————
TELEPHONE	——————————————————————————————————————
UNDERGROUND TELEPHONE	UTL UTL
ELECTRICITY	——————————————————————————————————————
UNDERGROUND ELECTRICITY	——————————————————————————————————————

•	
END	COUNTY
	TOWN

PREPARED FOR:

KIAWAH ISLAND, SC 29455

(843) 768-3418

ZONING FLOOD

CHARLESTON TOWN OF R2 ZONING DISTRICT

ZONE AE-IO

KIAWAH ISLAND

207-05-00-004,||6,||7,|20 ELEV. 14

<u>OWNER:</u> KRA, LP I KIAWAH ISLAND PARKWAY

(843) 768-3418 **ENGINEER:** THOMAS & HUTTON 682 JOHNNIE DODDS BLVD.

MT. PLEASANT, SC 29464

(843) 849-0200

CHARLESTON, SC 29407 (843) 795-9330 **ARCHITECT:**

(843) 566-3577

	NGS MONUMENT IO 10 SC CKZEBO NOVO 29 EL , 816	
	SPARROW POND COUTAGES SPARROW POND COTTAGES SPARROW POND COTTAGES	
WATER LEGEND	PROJECT MAP	

SCALE: I" = 400'

GENERAL NOTES

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

2. ALL ELEVATIONS SHOWN ARE BASED ON NGVD 1929. 3. TOPOGRAPHIC SURVEY BY SOUTHEASTERN LAND SURVEYING, LLC.

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

5. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE 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 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. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.

6. IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREA AT NO ADDITIONAL COST TO THE OWNER.

1 KIAWAH ISLAND PARKWAY 7. THE CONTRACTOR SHALL INSTALL ANY BARRICADES PRIOR TO BEGINNING CONSTRUCTION

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:

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

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

STANDARD SPECIFICATIONS UNLESS SPECIFIED ELSEWHERE AND APPROVED IN WRITING BY THE TOWN. 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. i. 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.

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 UNIFORM TRAFFIC CONTROL DEVICES" BOTH CURRENT EDITIONS.

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.

GENERAL INFORMATION

SOUTHEASTERN LAND SURVEYING, LLC 1035-B JENKINS ROAD KIAWAH ISLAND, SC 29455

> MHK ARCHITECTURE 60 BROAD STREET CHARLESTON, SC 29401



5/1/23

DRAWN: LMD

DESIGNED: LMD

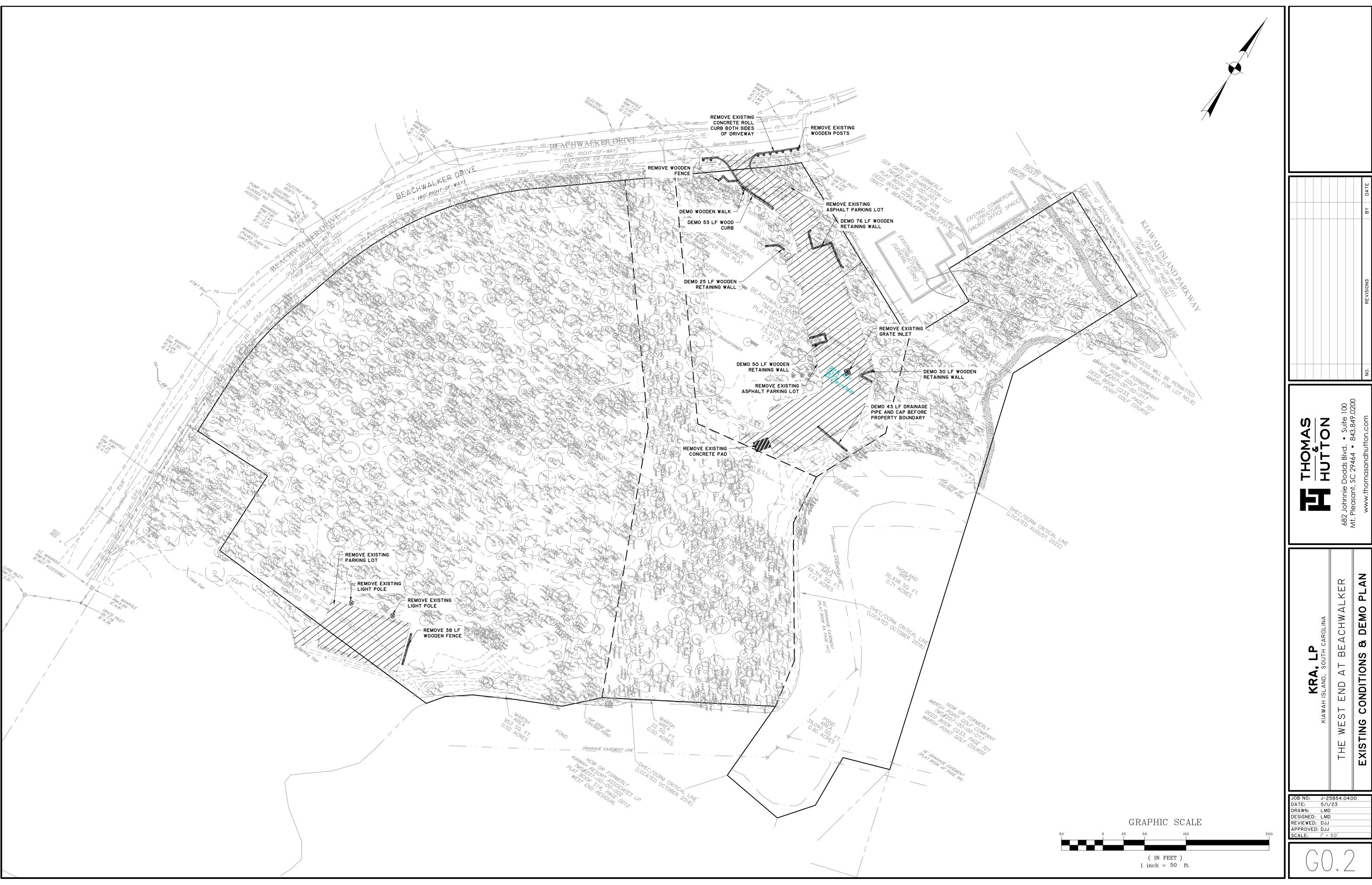
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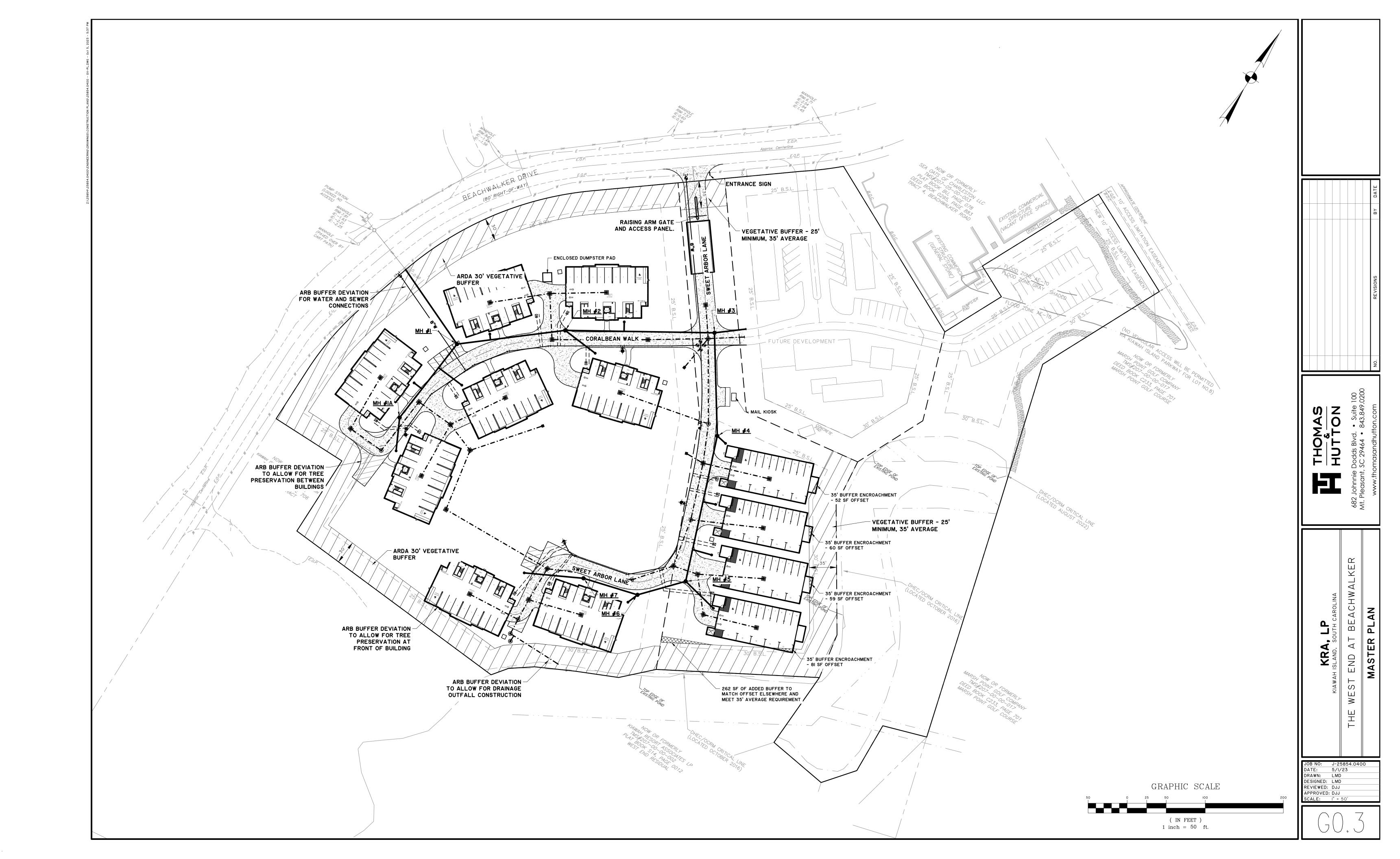
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PROJECT MA

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A.1. PROJECT AREA 12.11 AC

A.2. AREA DISTURBED 9.0 AC

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 C.2. LAND USE(S):

D. RECEIVING WATERS

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

AE (13&14) E.1. FEMA FLOOD ZONE(S): 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.

BEACHES

RESIDENTIAL

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

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

ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF

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 SEEDED WITHIN 5 DAYS AFTER BACKFILL.

1.4. WATER DISTRIBUTION SYSTEM INSTALLATION

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

4. SEDIMENT LOGS/ROLLS

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

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

CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT

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

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 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

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

POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND

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

HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT

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:

RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

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

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 ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE

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

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

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

EROSION CONTROL BLANKETS THAT HAVE BEEN PROPERLY ANCHORED TO THE SLOPE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS:

20.7. ON SLOPES GREATER THAN 10 FEET IN LENGTH AND 4:1 OR STEEPER, USE THE FOLLOWING

ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR

• 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

3. NON-STORM WATER DISCHARGES

DETERGENTS ARE NOT USED

3 12 LANDSCAPE IRRIGATION

2.3.3. STOP THE SOURCE

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 3.11. UNCONTAMINATED EXCAVATION DEWATERING

3.13. DECHLORINATED SWIMMING POOL DISCHARGES. 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. 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

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

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

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

4.3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED

ROOTS INTO THE APPROVED MULCH MATERIAL.

LANDSCAPE PLANTING BEDS, STRUCTURE, OR PAVEMENT. 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.

4.4. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER 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

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

TOPSOIL. 4.2. SODDED AREAS

4.3. PERMANENT MULCH

AREA WITH AN APPROVED MULCH MATERIAL

FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES

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

PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP.

DOWN CUTTING OF THE CHANNEL.

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

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 I IMI 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

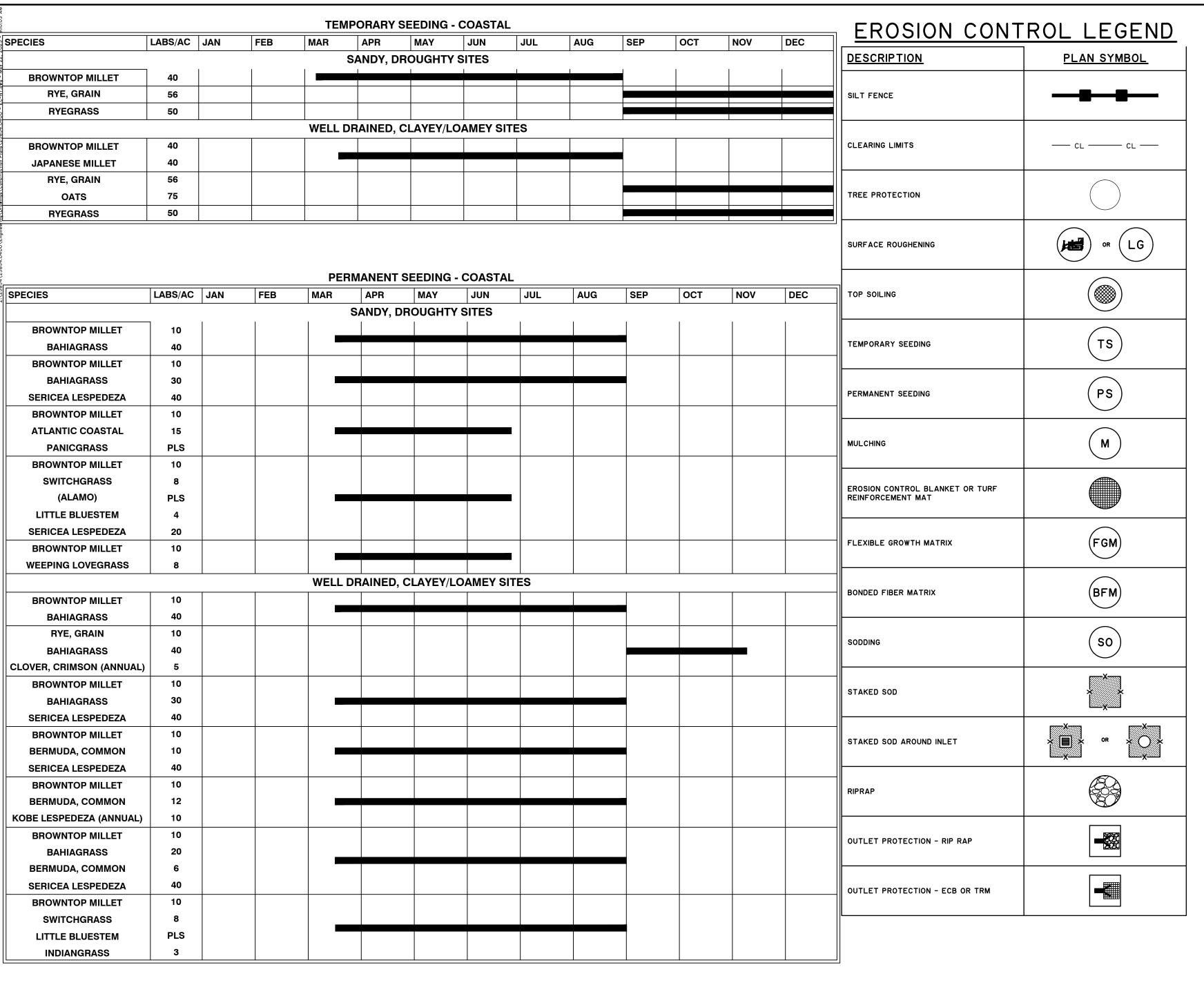
AGRICULTURAL LIMESTONE PER ACRE (70 LBS. / 1000 SQ.FT.).

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.

GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SO FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED

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DRAWN: DESIGNED: LMD REVIEWED: DJJ APPROVED: DJJ CALE: NOT TO SCALE



EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL		
ROCK SEDIMENT DIKE			
SEDIMENT TUBE			
ROCK CHECK DAM	OR 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		

LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS,

PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.

ARE STABILIZED.

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

DEPARTMENT OF HEATH AND ENVIRONMENTAL CONTROL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY EROSION PREVENTION AND SEDIMENTATION CONTROL UNITED STATES FOOD AND DRUG ADMINISTRATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

STORMWATER POLLUTION PREVENTION PROGRAM

MUNICIPAL SEPARATE STORM SEWER SYSTEM

ACRYLAMIDE POLYMER **BONDED FIBER MATRIX**

CUBIC FEET PER SECOND CORRUGATED METAL PIPE

EROSION CONTROL BLANKET

FLEXIBLE GROWTH MATRIX HIGH DENSITY POLYETHYLENE

MATERIAL SAFETY DATA SHEETS

POLYACRYLAMIDE OR POLYMER REINFORCED CONCRETE PIPE SOIL CONSERVATION SERVICE

TURF REINFORCEMENT MAT

VEGETATED FILTER STRIP

BEST MANAGEMENT PRACTICE(S)

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION

	CONSTRUCTION	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 Control of the con
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 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	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 I	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 TO 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.

REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL BMPS AS ADJACENT AREAS REMOVE SEDIMENT AND EROSION CONTROL BMPS ON A CASE BY CASE BASINS AND

STABILIZE ALL TEMPORARY CONTROL MEASURES.

ONLY AFTER ALL UPSTREAM CONTRIBUTING AREA IS STABILZED.

ΓIC	ON SEQUENCE	
	SCHEDULE CONSIDERATION	H ence
	CONTRACTOR TO MAINTAIN OS-SWPP AT ALL TIMES DURING CONSTRUCTION.	
AS	SE .	
	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.	
	EACH CONTRACTOR, SUBCONTRACTOR, UTILITY CONTRACTOR, ETC. SHALL ATTEND A PRE CONSTRCUTION CONFERNECE IN PERSON AND EXECUTE A CONTRACTOR CERTIFICATION.	
	STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES.	
<	BEGIN MINOR CLEARING AND GRADING AS NEEDED FOR INSTALLATION PERIMETER EROSION CONTROL BMPS.	
D	INSTALL ALL PERIMETER EROSION CONTROL BMPS PRIOR TO ANY MAJOR CLEARING AND GRADING ACTIVITIES. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.	
	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.	
N I	PHASE	KRA
,	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.	
	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 TO DISCHARGING. OUTFALL DITCH OR PIPING TO BE IN OPERATION.	
	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.	
	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES PER OS-SWPPP.	
	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.	JOB NO: C
	INSTALL SEDIMENT CONTROL BMPS AS THE INLET BOXES BECOME AVAILABLE ON A BOX BY BOX PROCESS.	DRAWN: L DESIGNED: L
F	PHASE	REVIEWED: D
	STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND	SCALE: N

SCALE: NOT TO SCALE

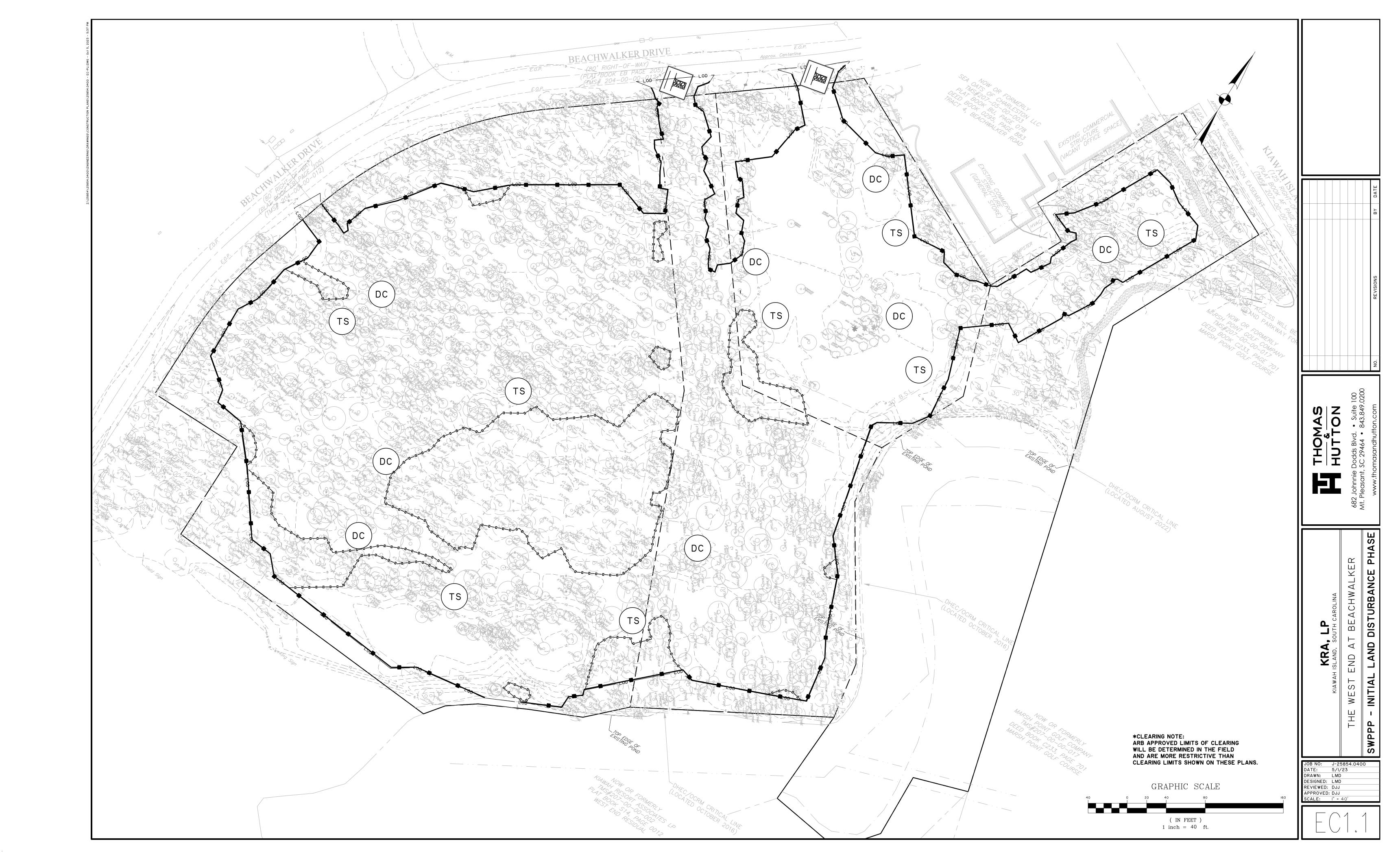
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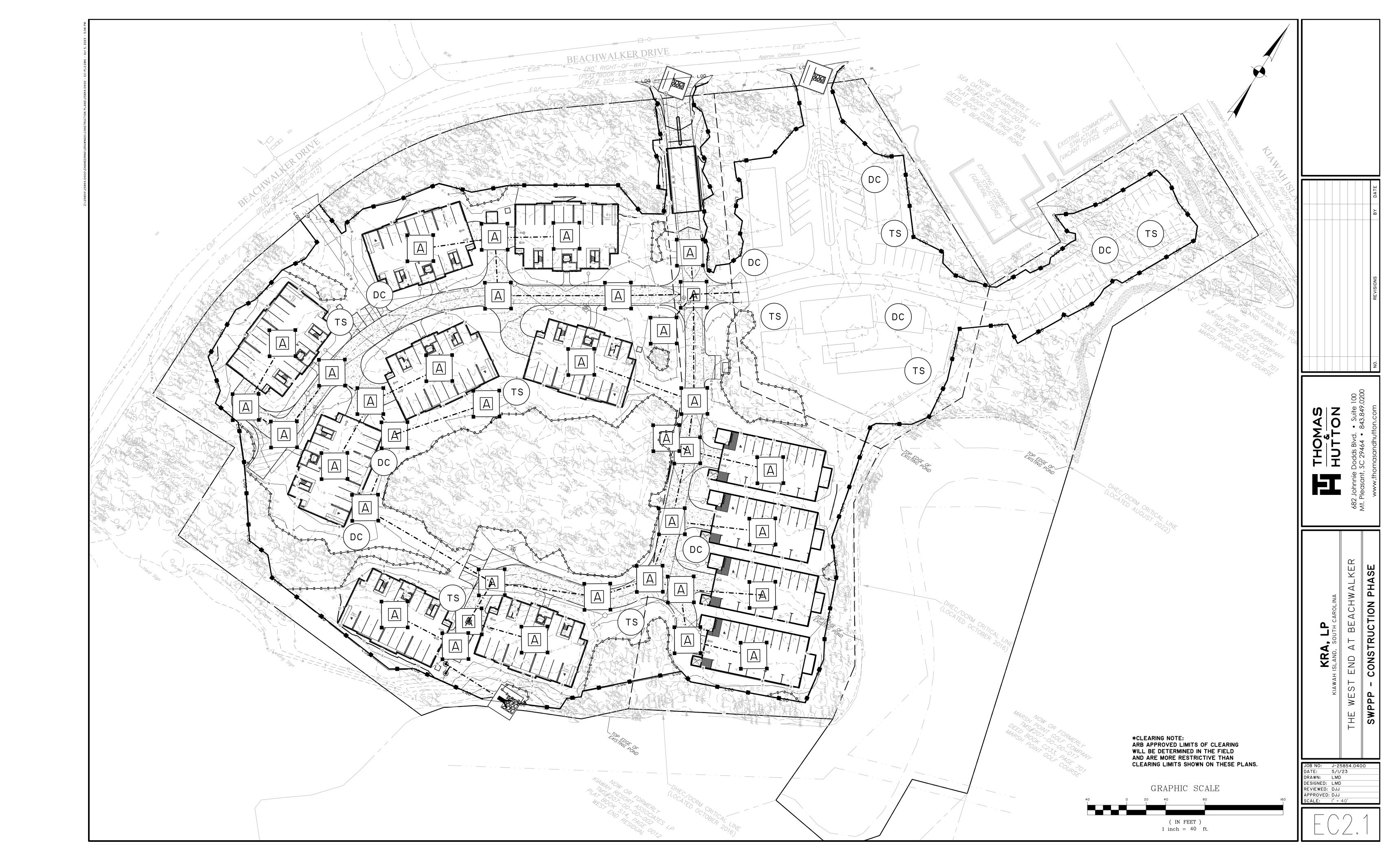
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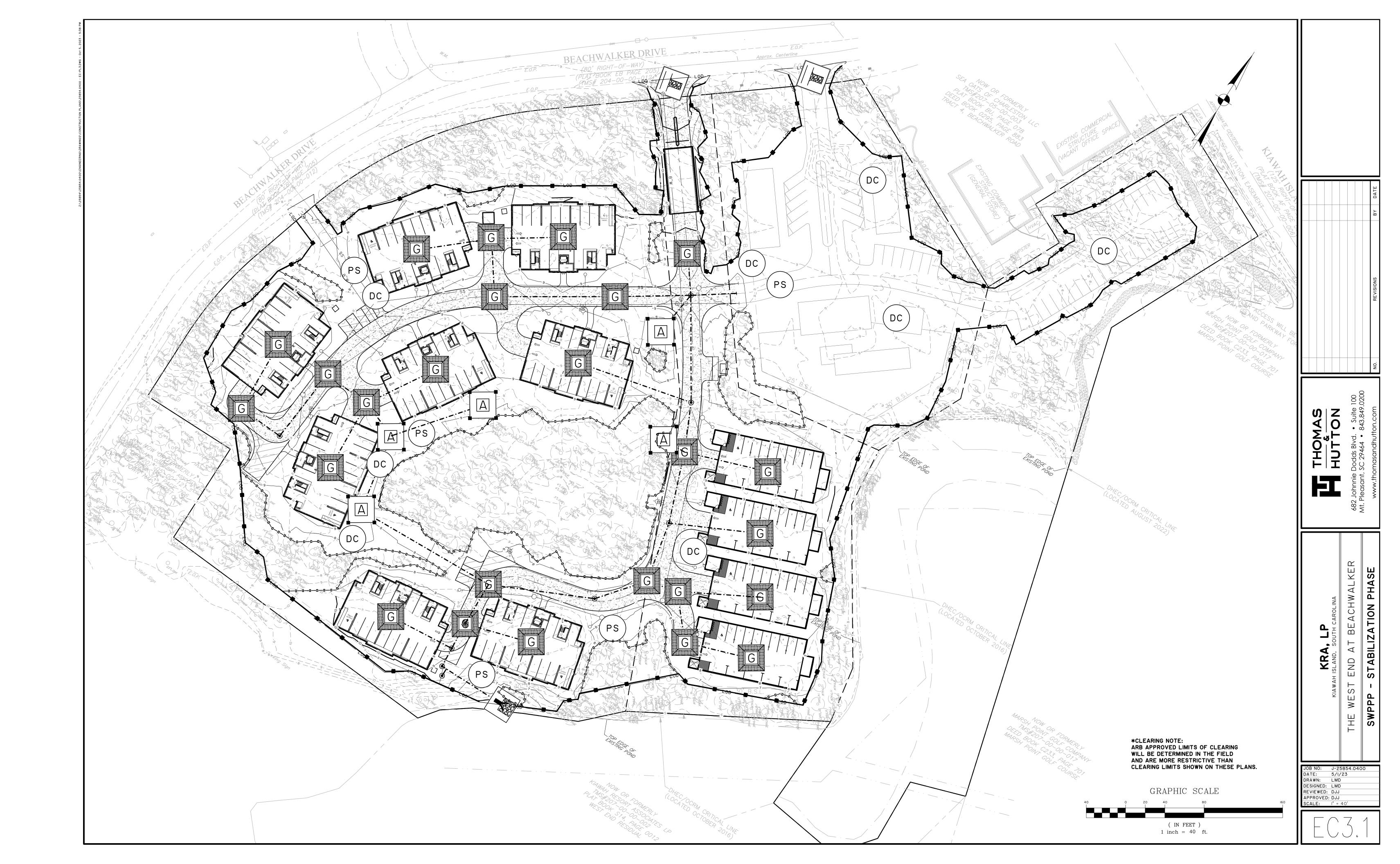
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WE,







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:

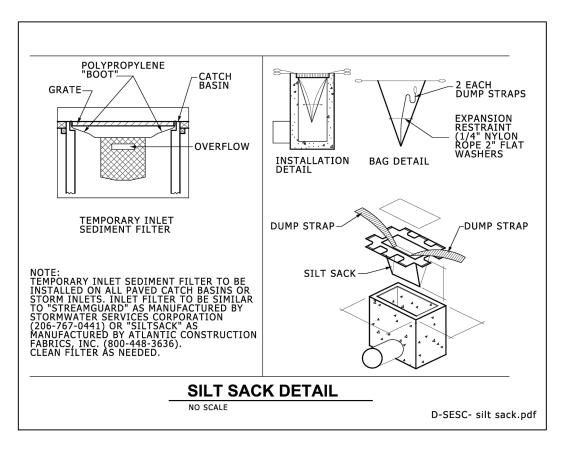
SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE 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 AMD BFM **BONDED FIBER MATRIX**

BMP(S) BEST MANAGEMENT PRACTICE(S) 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**

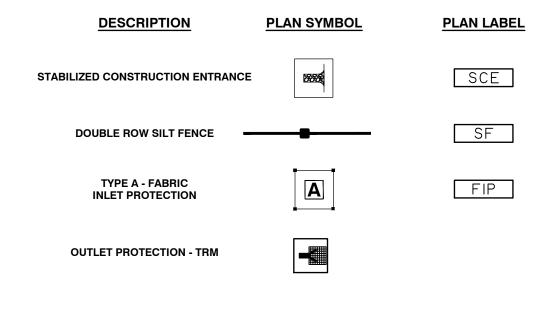
FDA UNITED STATES FOOD AND DRUG ADMINISTRATION FGM FLEXIBLE GROWTH MATRIX HDPE HIGH DENSITY POLYETHYLENE

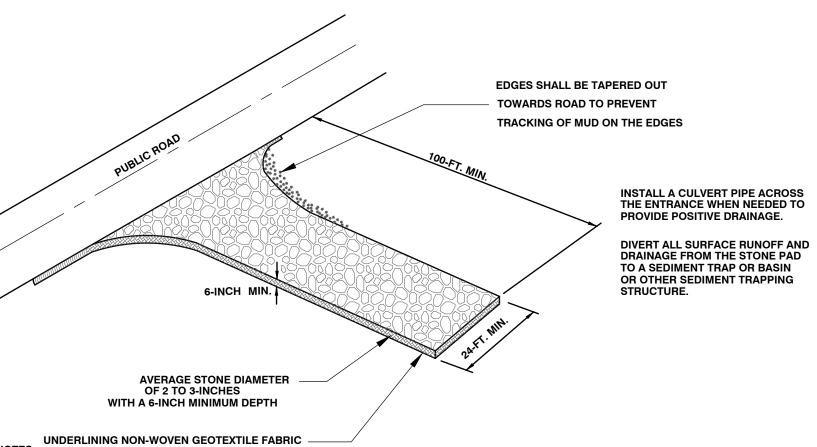
MUNICIPAL SEPARATE STORM SEWER SYSTEM MS4 MSDS MATERIAL SAFETY DATA SHEETS NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

PAM POLYACRYLAMIDE OR POLYMER RCP REINFORCED CONCRETE PIPE SOIL CONSERVATION SERVICE SCS

SWPPP STORMWATER POLLUTION PREVENTION PROGRAM 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

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:

SITE CONSTRAINTS.

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.

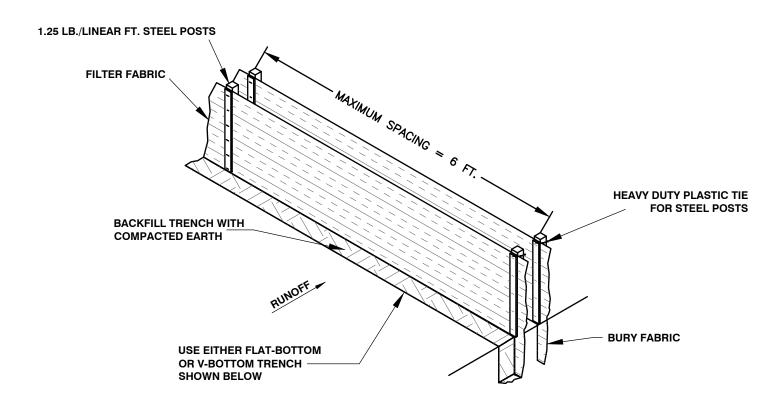
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

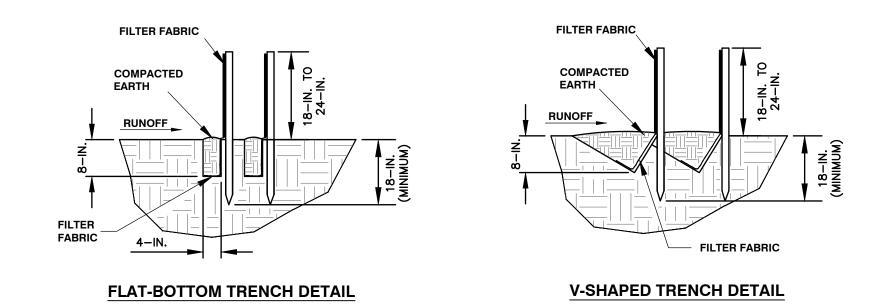
STABILIZED CONSTRUCTION ENTRANCE

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.

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.

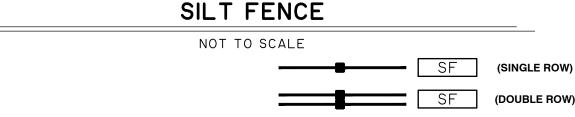
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.

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.



≥ DRAWN: DESIGNED: LMD REVIEWED: DJJ

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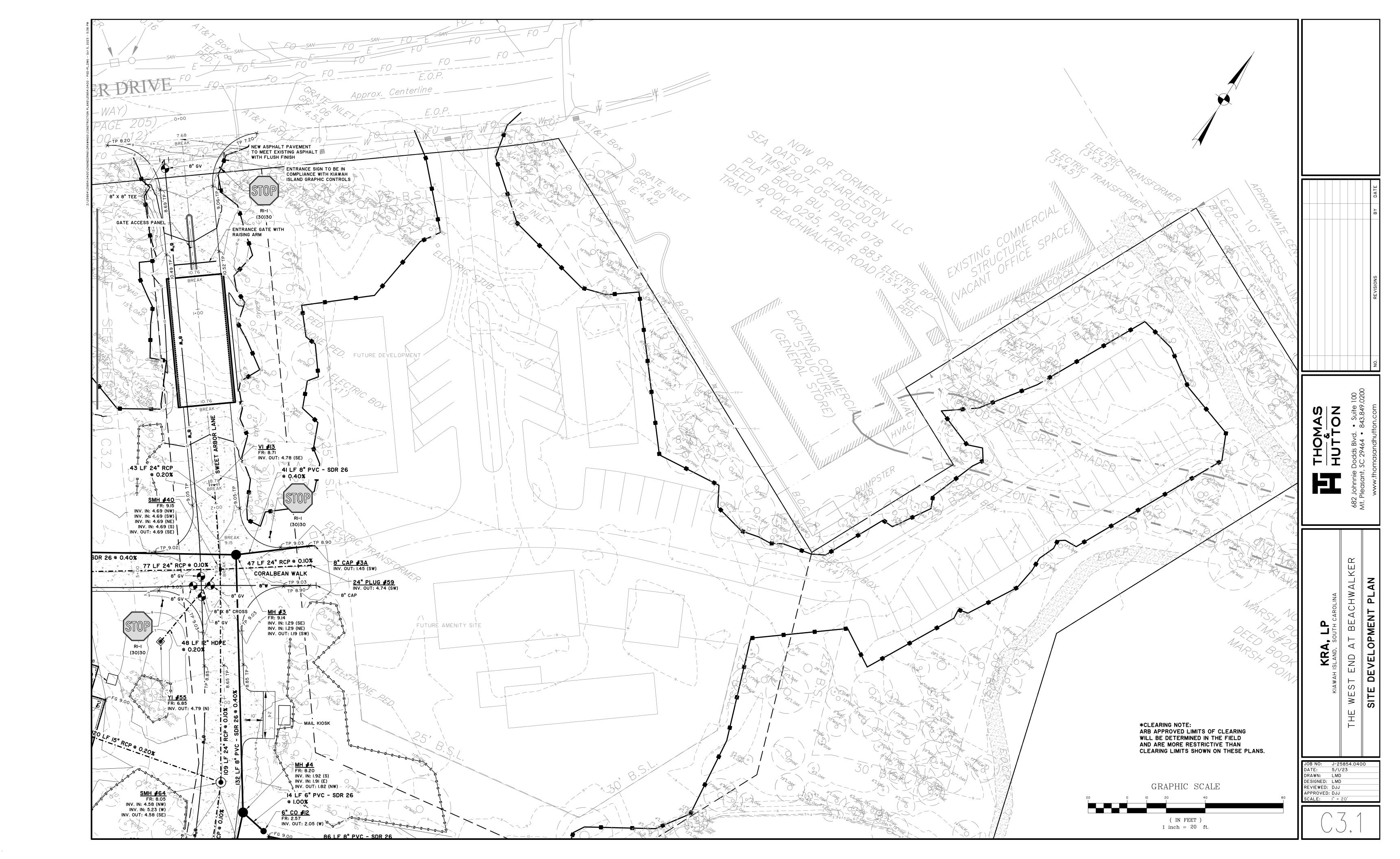
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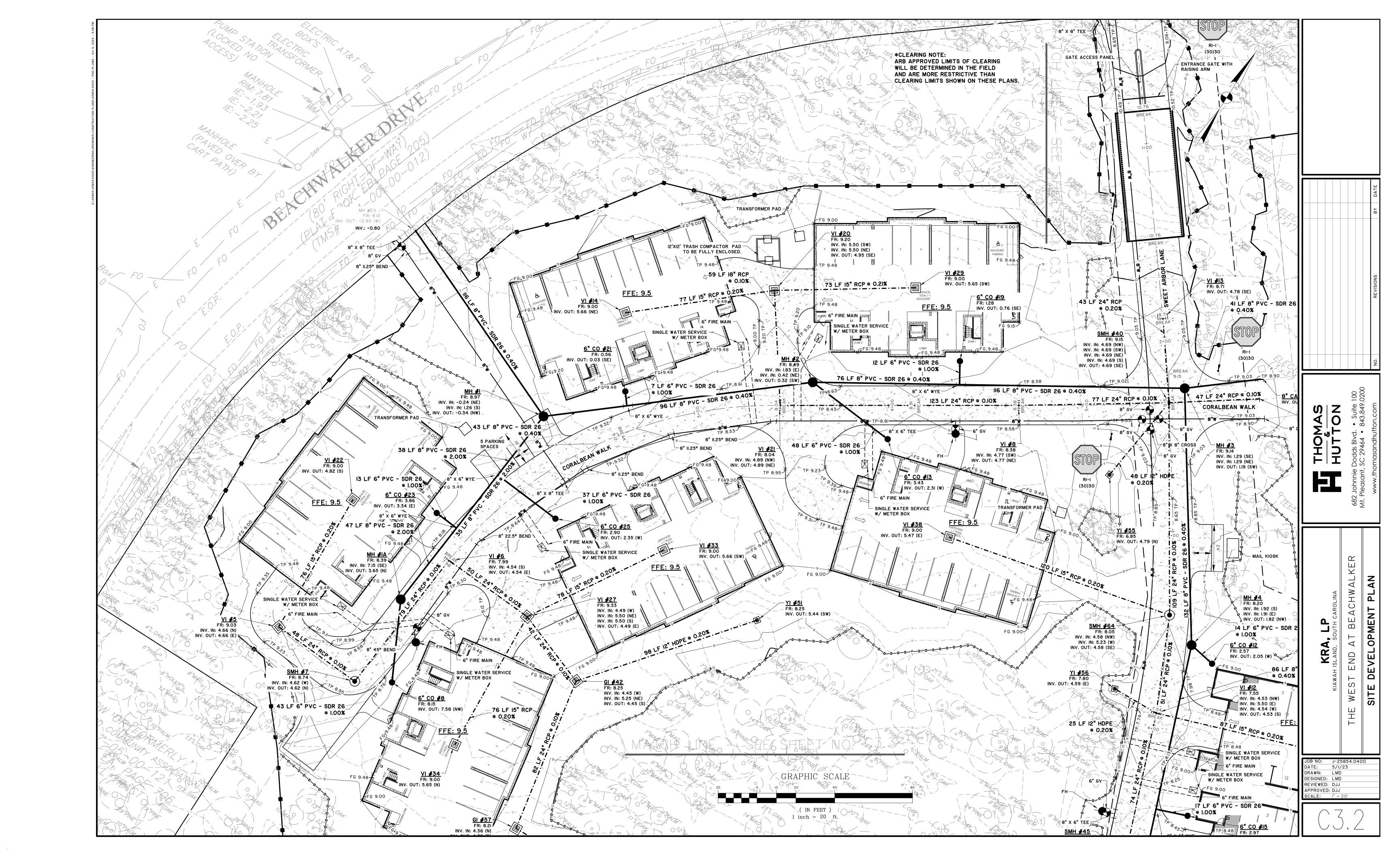
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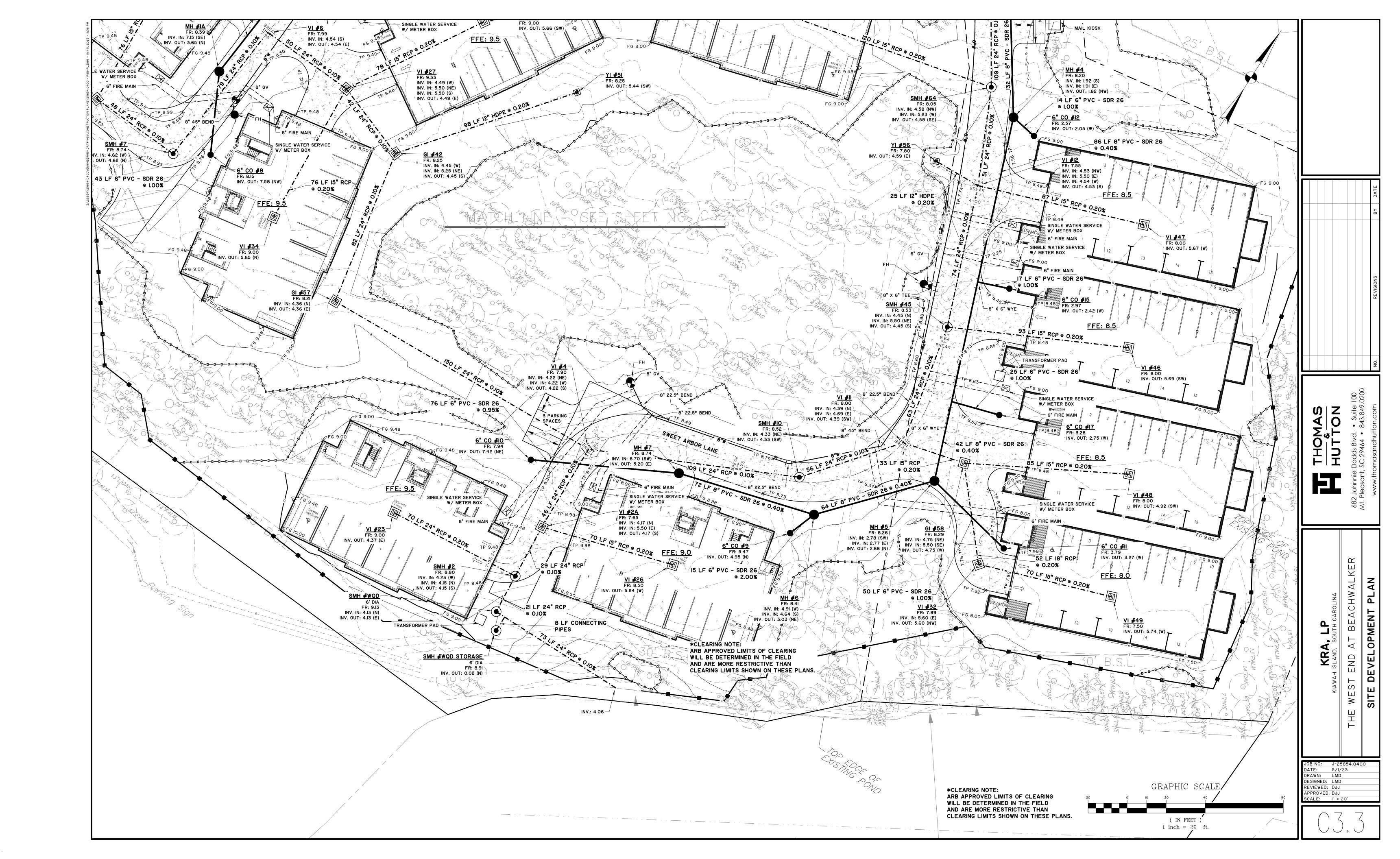


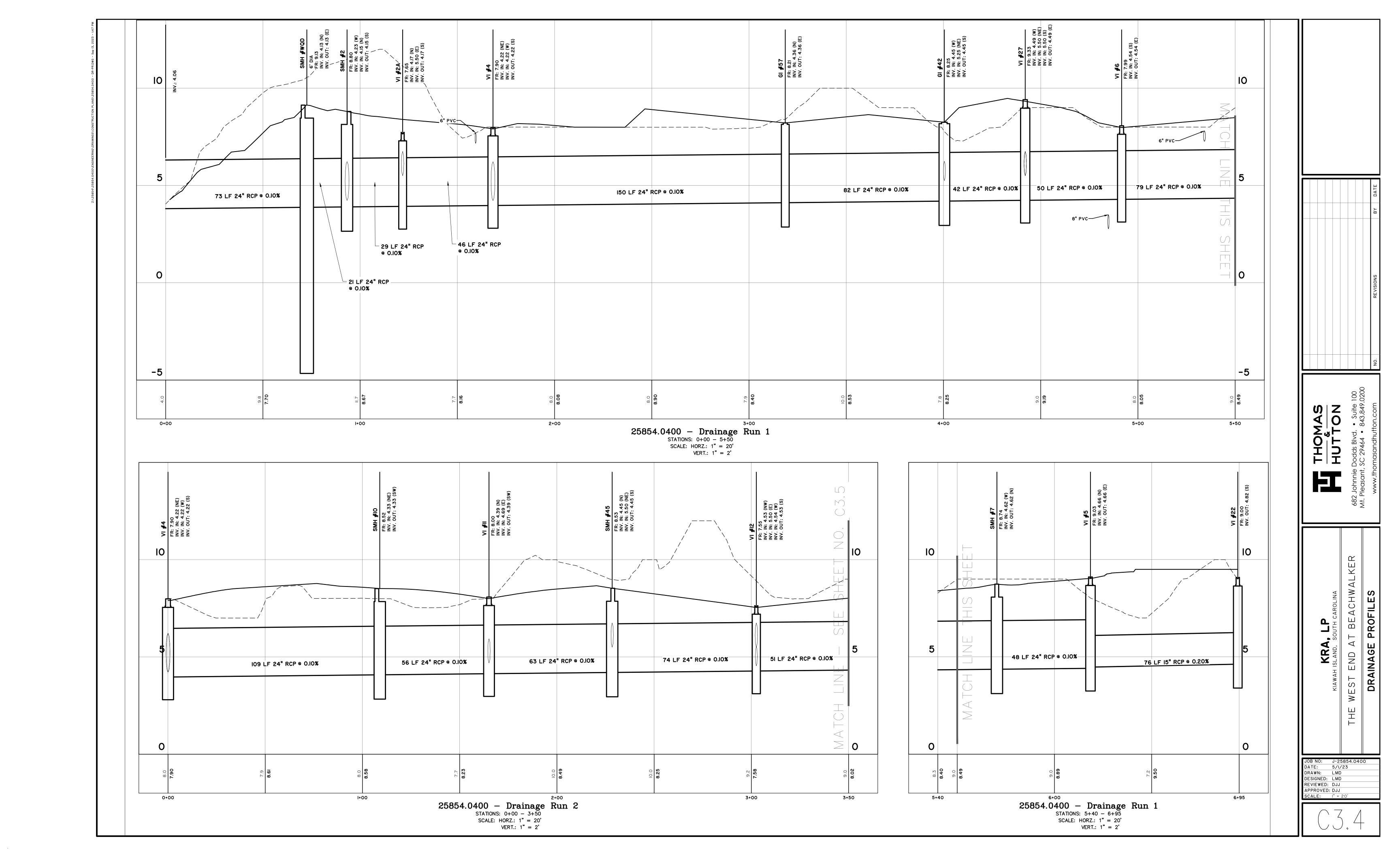
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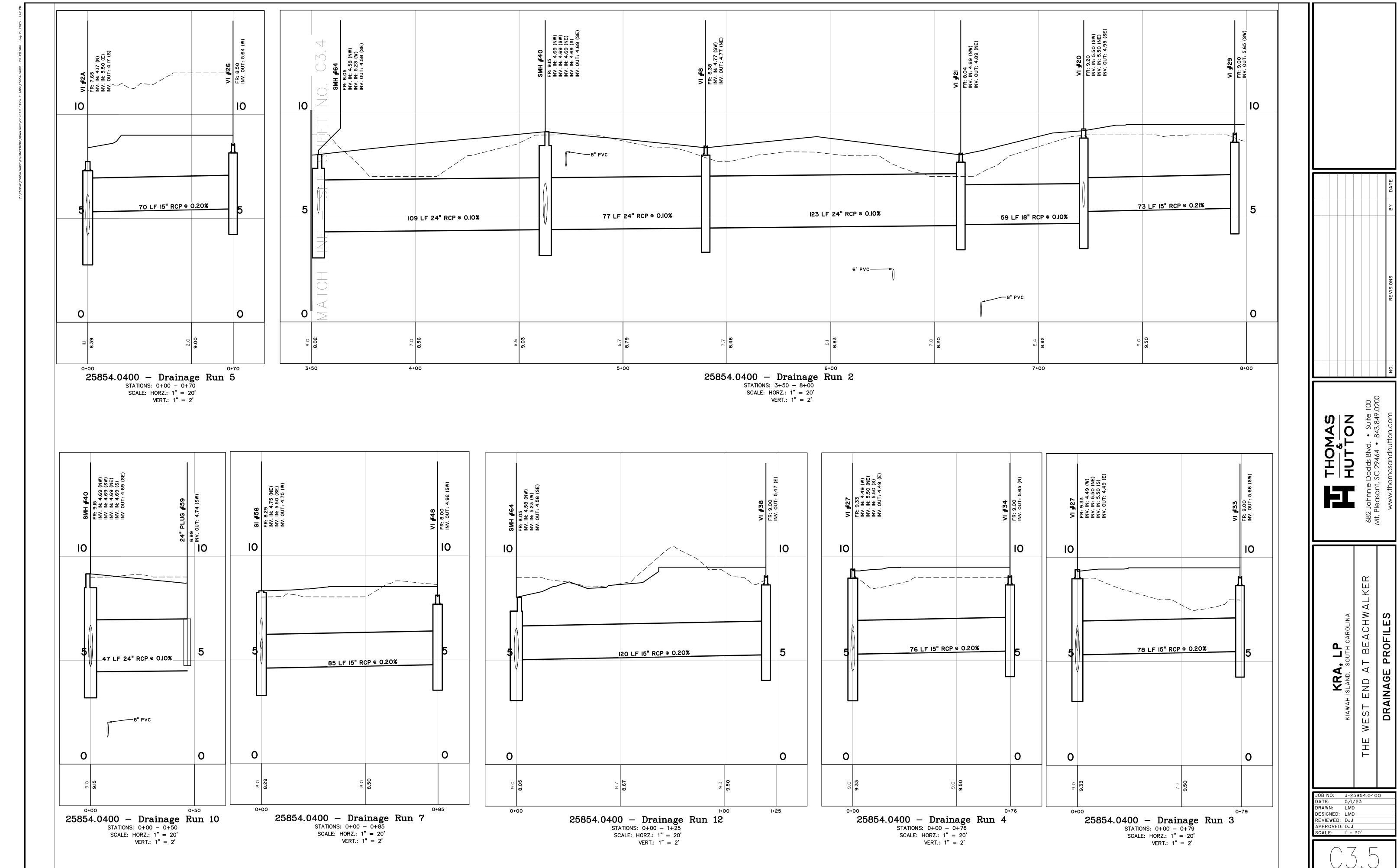
APPROVED: DJJ

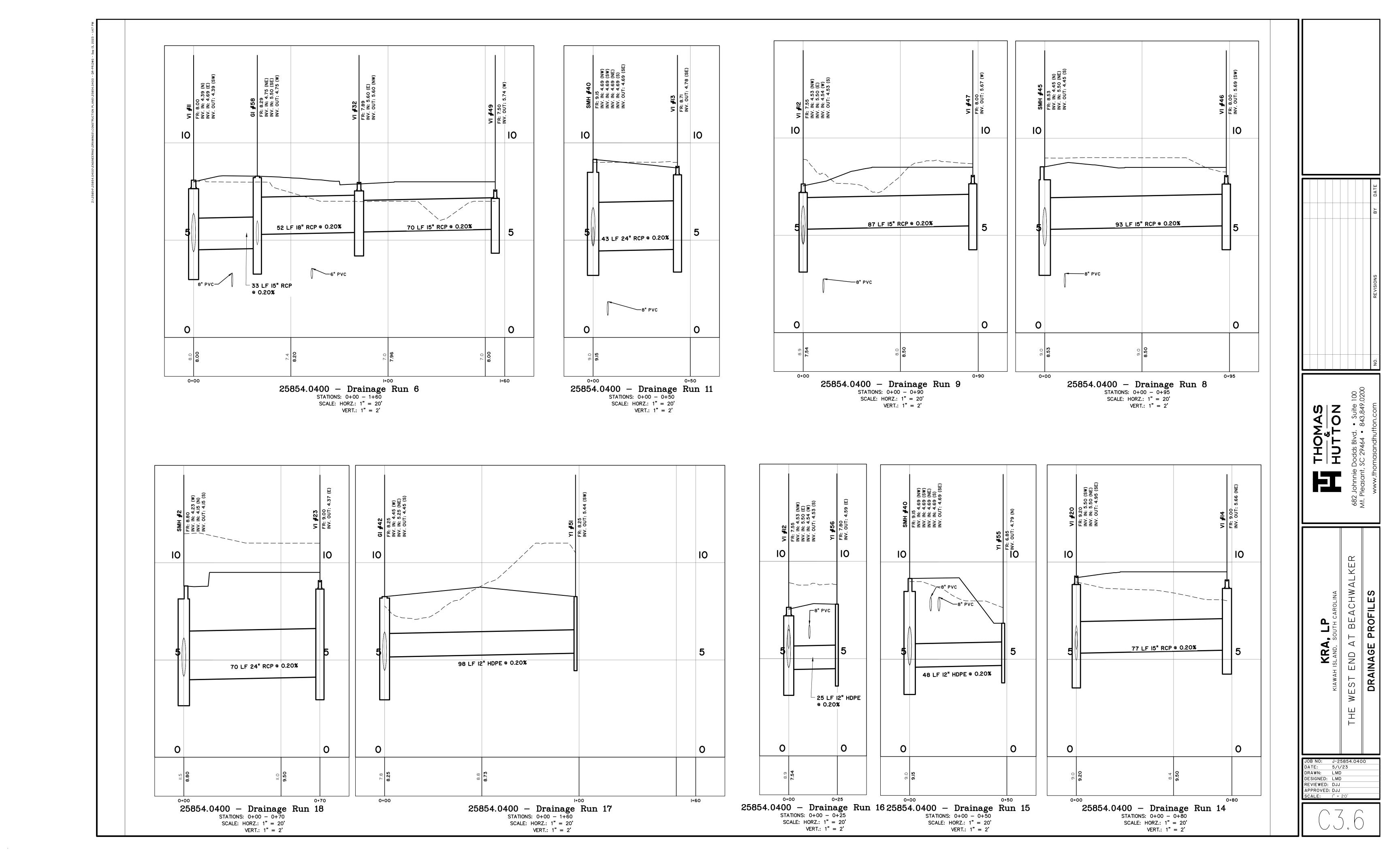


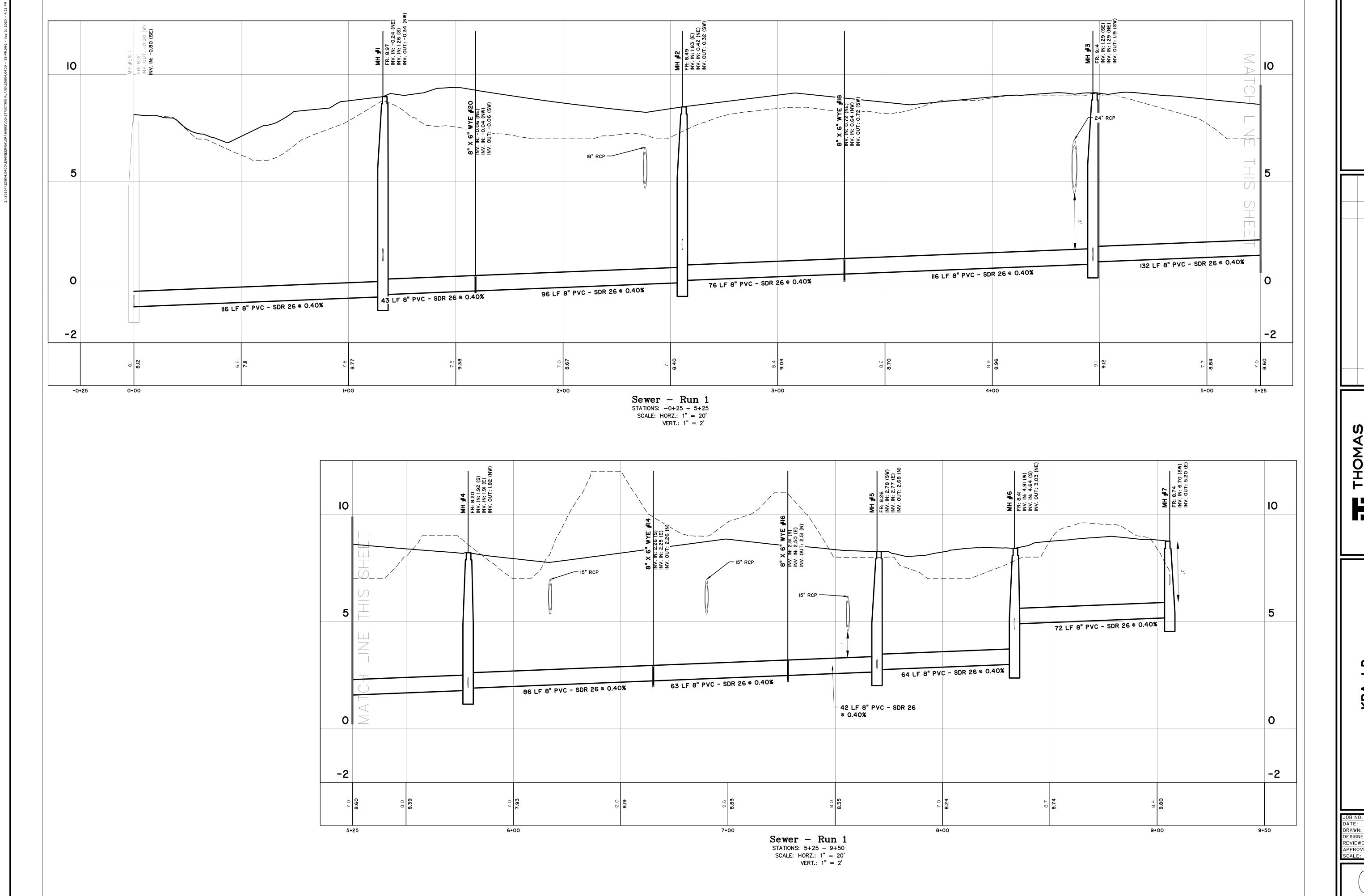












THOMAS HUTTON

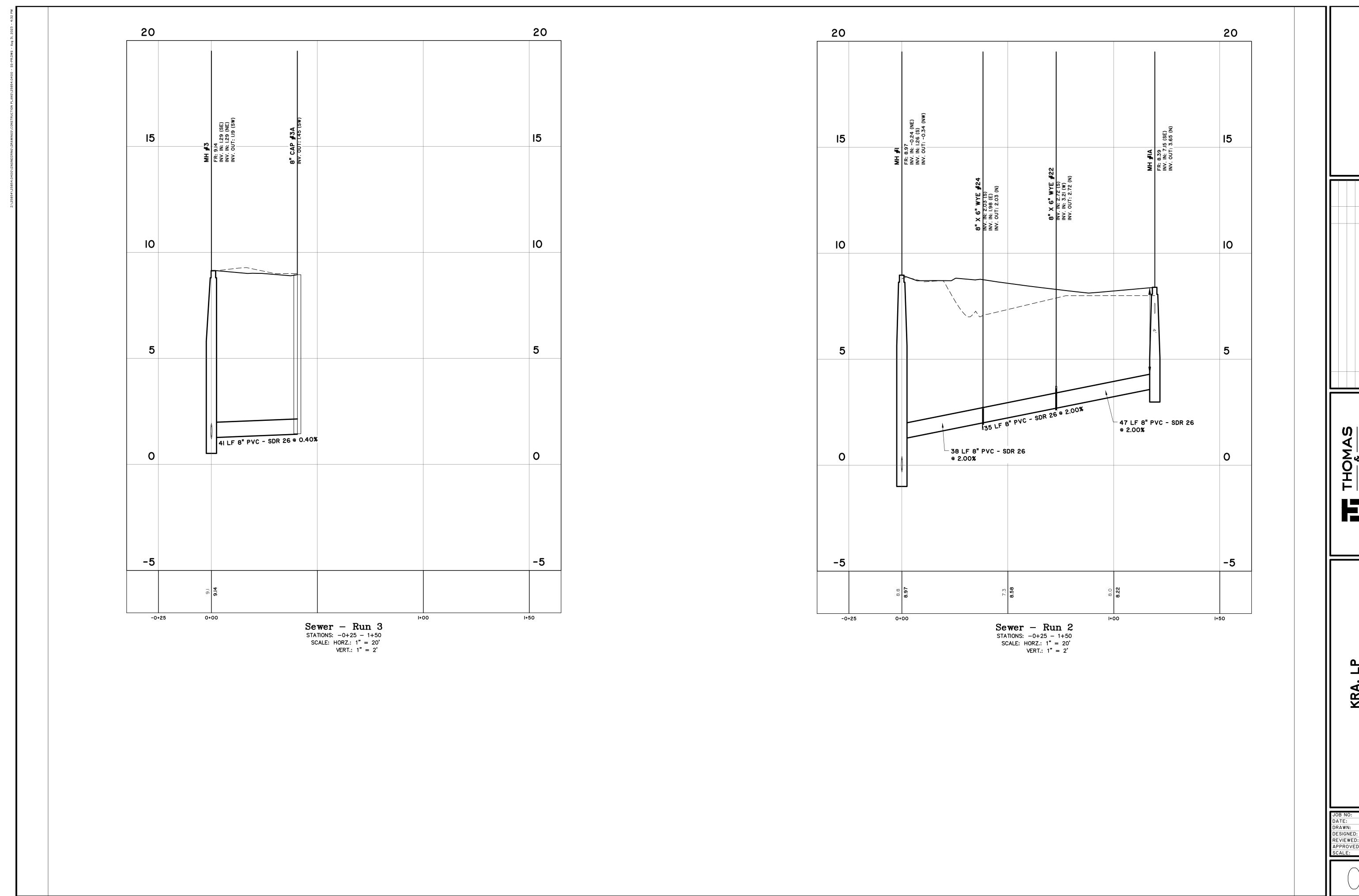
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KRA, LP
KIAWAH ISLAND, SOUTH CAROLINA

WEST END AT BEACHWALKER

SEWER PROFILES THE

JOB NO: J-25854.0400
DATE: 5/I/23
DRAWN: LMD
DESIGNED: LMD
REVIEWED: DJJ
APPROVED: DJJ
SCALE: I" = 20'

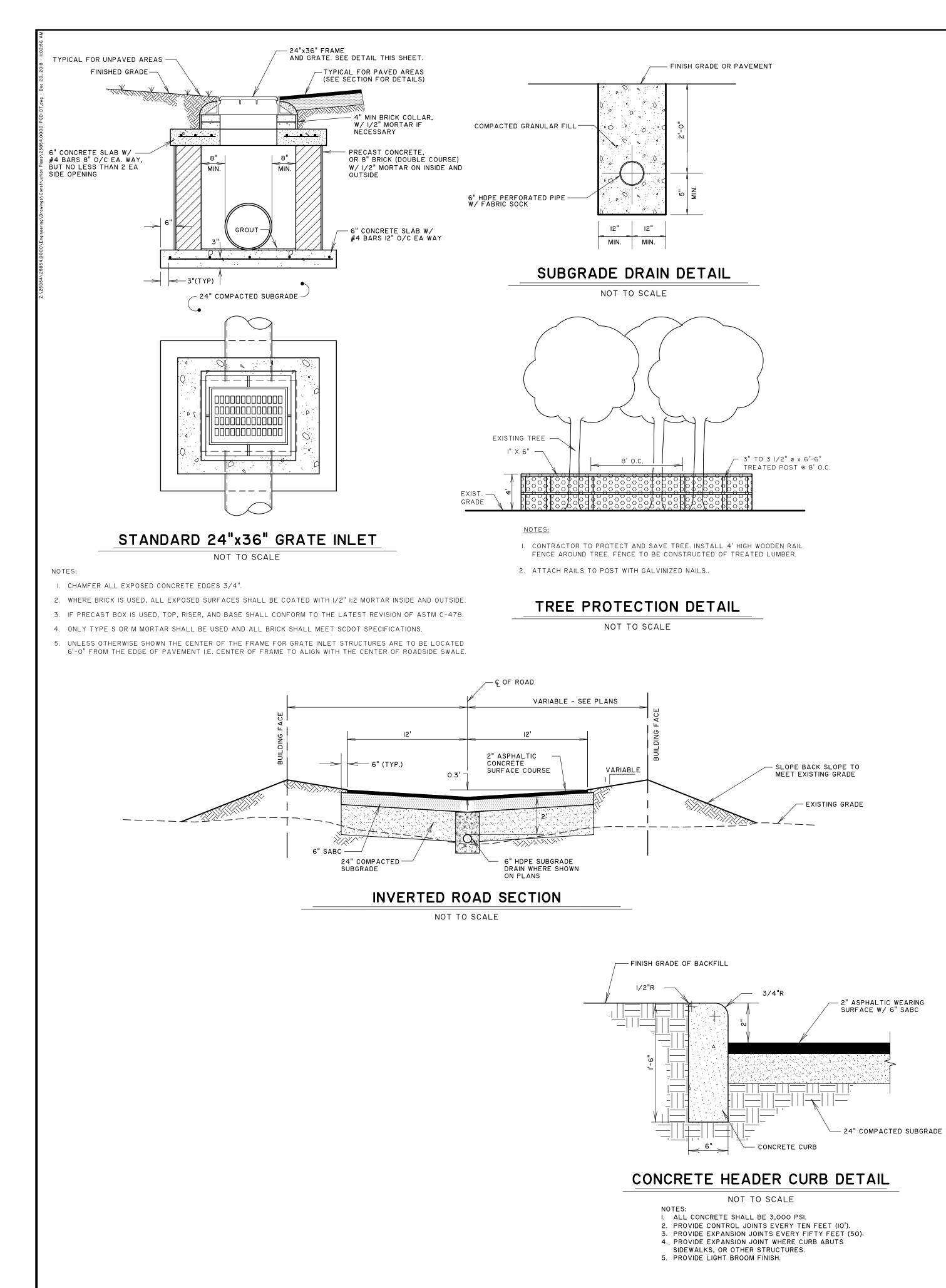


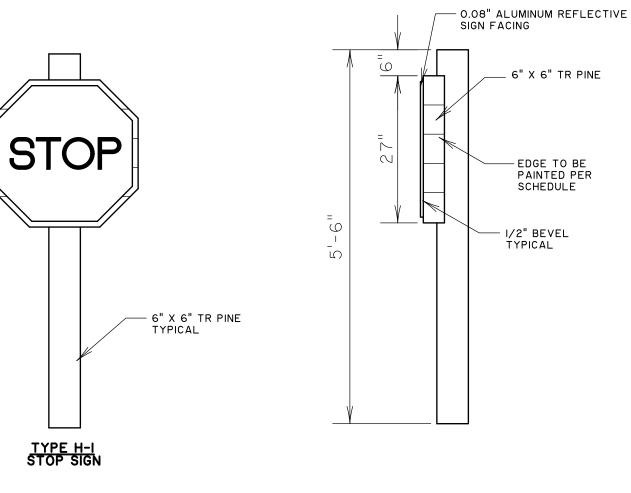
THOMAS HUTTON H 682 Joh Mt. Plec ww

KRA, LP
KIAWAH ISLAND, SOUTH CAROLINA
E WEST END AT BEACHWALKER
SEWER PROFILES

THE

JOB NO: J-25854.0400
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REVIEWED: DJJ
APPROVED: DJJ
SCALE: I" = 20'





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

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

- 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.
- 5. CARE SHOULD BE TAKEN TO MAKE SURE POSTS ARE PROPERLY TREATED TO PREVENT DECAY OR ATTACK FROM TERMITES.
- 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" STONE BEDDING

RING AND COVER

NOT SHOWN

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.

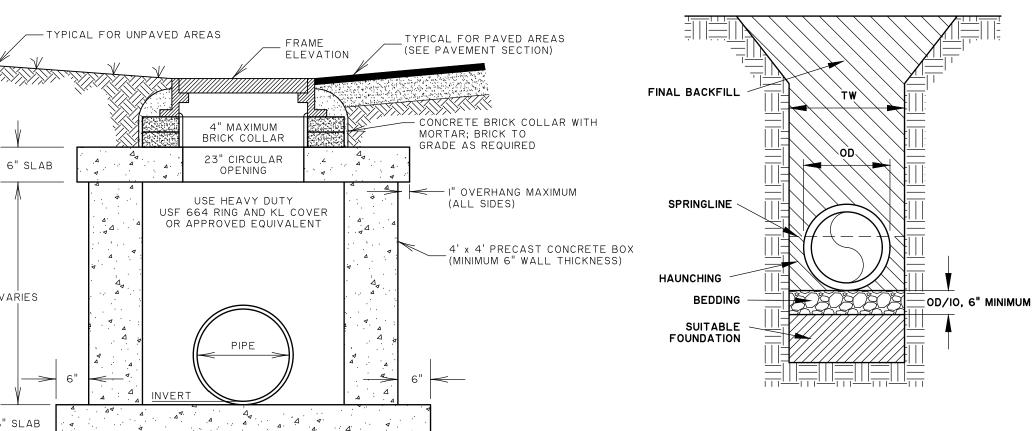
6. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".

I. DO NOT USE KNOCKOUT BOXES.

BOTTOM SLAB

NOT TO SCALE

VARIES



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.

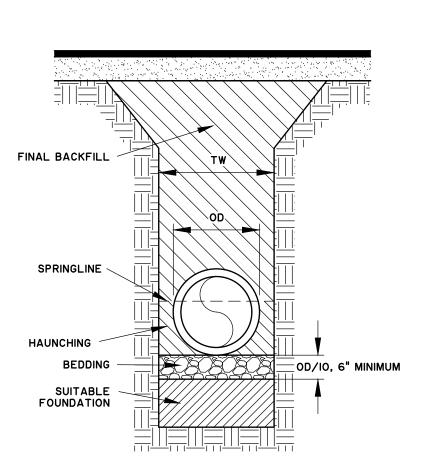
HAUNCHING - CLASS II OR CLASS III. FINAL BACKFILL - CLASS II, CLASS III, OR CLASS IVA.

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

5/1/23 DRAWN: DESIGNED: LMD REVIEWED: DJJ APPROVED: DJJ SCALE: |" = |



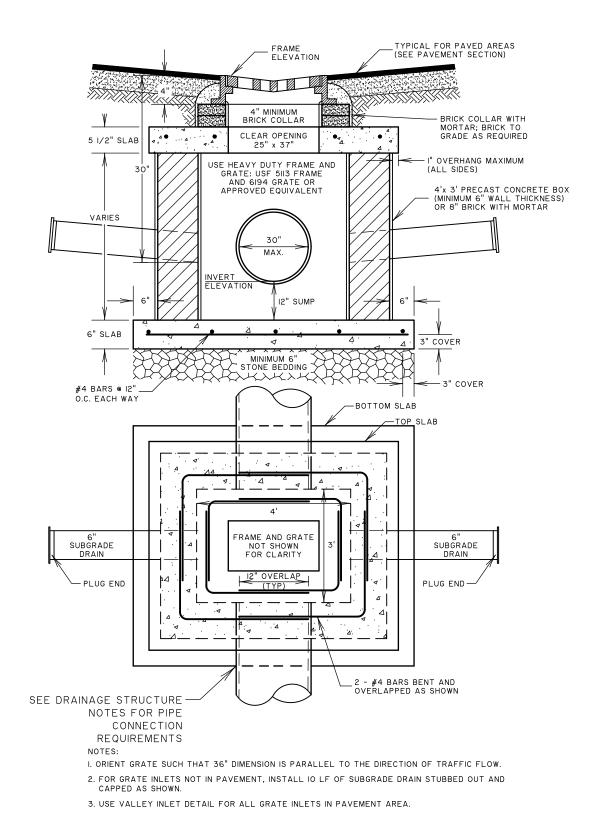
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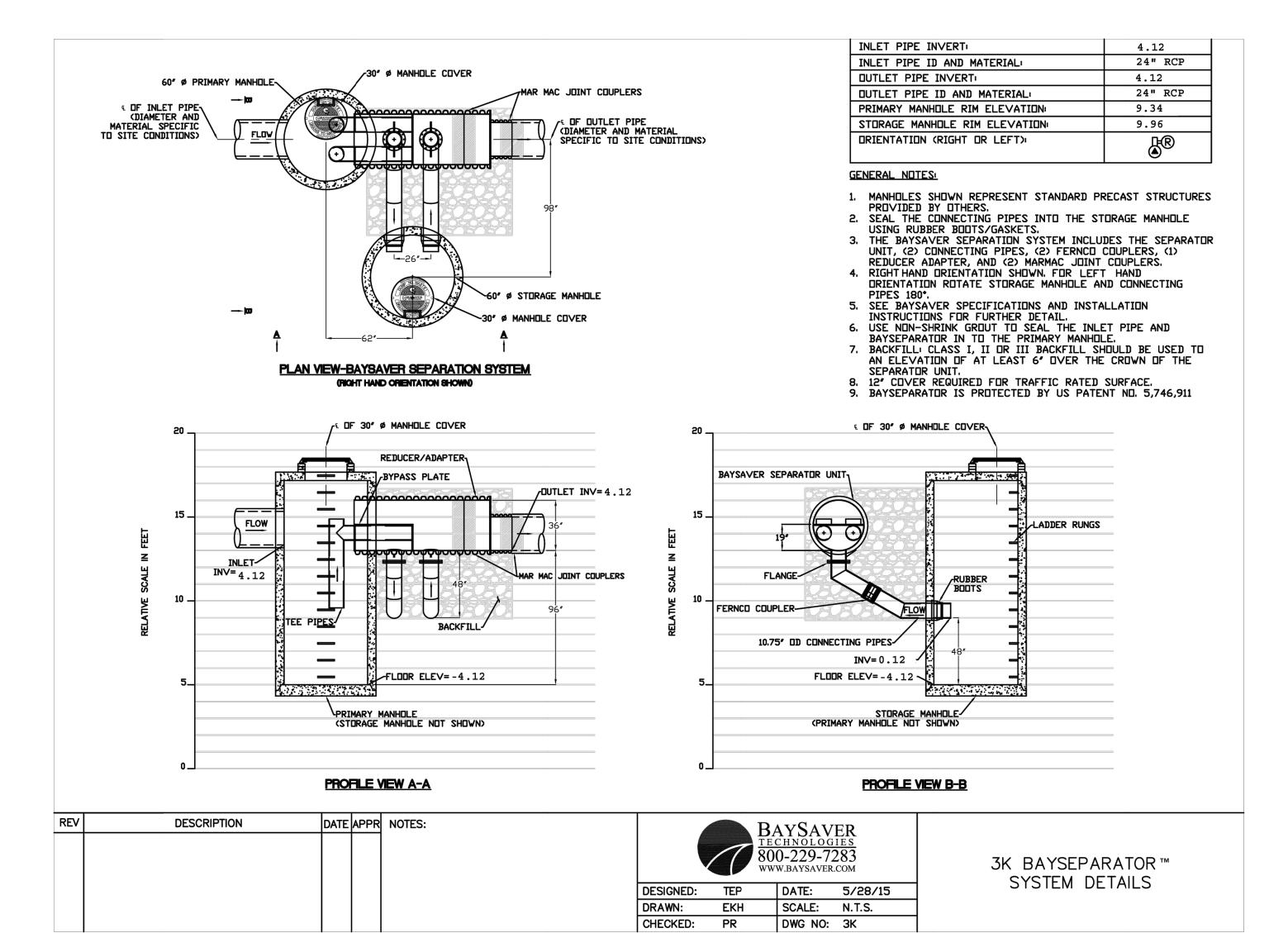
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VALLEY INLET DETAIL

NOT TO SCALE

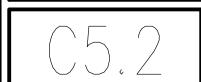


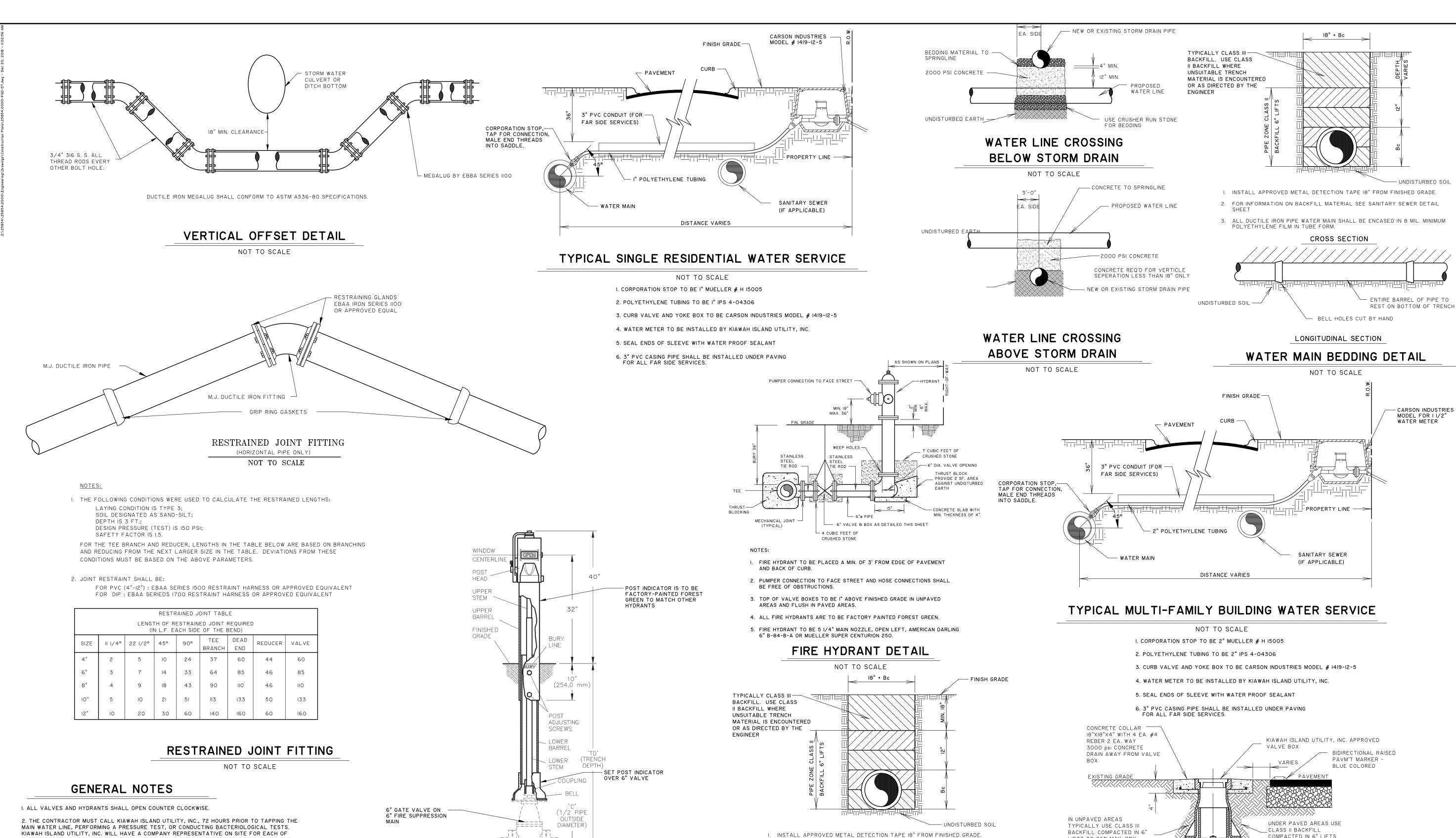
KRA, LP
KIAWAH ISLAND, SOUTH CAROLINA

E WEST END AT BEACHWALKER

GRADING AND DRAINAGE DETAIL

JOB NO: J-25854.0400
DATE: 5/I/23
DRAWN: LMD
DESIGNED: LMD
REVIEWED: DJJ APPROVED: DJJ





- KIAWAH ISLAND UTILITY, INC. WILL HAVE A COMPANY REPRESENTATIVE ON SITE FOR EACH OF THESE EVENTS. KIAWAH ISLAND UTILITY, INC. MUST ALSO BE NOTIFIED AND PRESENT FOR THE INSPECTION OF ALL HYDRANTS, VALVES, AND THRUST BLOCKS PRIOR TO THEM BEING COVERED.
- 3. AFTER A SUCCESSFUL PRESSURE TEST, THE CONTRACTOR MUST CONDUCT BACTERIOLOGICAL TESTS ACCORDING TO SC DHEC REGULATIONS. TWO SAMPLES MUST SHOW NEGATIVE BACTERIOLOGICAL RESULTS OR THE PROCESS MUST BE REPEATED. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF ALL TESTING, INCLUDING WATER USED IN FLUSHING.
- 4. ALL NEW FIRE HYDRANTS MUST BE TESTED FOR STATIC AND RESIDUAL FLOWS AND THE FLOWS AT 20 PSI.
- 5. KIAWAH ISLAND UTILITY, INC. SHALL HAVE THE RIGHT OF ENTRY TO THE CONSTRUCTION SITE TO OBSERVE AND VERIFY THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND TO WITNESS TESTING OF THE SYSTEM.

FROM WATER MAIN 6" DIP RESTRAINED

NOT TO SCALE

- 2. GATE VALVE TO BE DIP BODY CONFORMING TO AWWA C-509-09 WITH A WORKING PRESSURE RATING OF 200 PSI.
- 3. VERTICAL POST INDICATOR TO BE MUELLER A-20806 OR EQUAL.

VERTICAL POST INDICATOR

- I. TRENCH DEPTH OF 6" PIPE IS TO BE MIN. 30"

ALL DUCTILE IRON PIPE WATER MAIN SHALL BE ENCASED IN 8 MIL. MINIMUM POLYETHYLENE FILM IN TUBE FORM. CROSS SECTION - ENTIRE BARREL OF PIPE TO UNDISTURBED SOIL -REST ON BOTTOM OF TRENCH

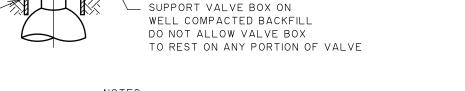
2. FOR INFORMATION ON BACKFILL MATERIAL SEE SANITARY SEWER DETAIL

FIRE MAIN BEDDING DETAIL

LONGITUDINAL SECTION

- BELL HOLES CUT BY HAND

NOT TO SCALE



COMPACTED IN 6" LIFTS

AS PER ASTM DI557

TO 95% MAX. DRY DENSITY

TO INSURE FREE VALVE OPERATION. 2. USE 6" RISER PIPE ON 4" AND 6" VALVES.

I. CENTER VALVE BOX OVER OPERATING NUT

- 3. USE 8" RISER PIPE ON 8" VALVES AND LARGER.
- 4. LOCATION OF VALVE SHALL BE MARKED WITH A CLEAR BIDIRECTIONAL RAISED PAVEMENT MARKER ON THE EDGE OF PAVEMENT NEAR THE VALVE.

VALVE BOX DETAIL

LIFTS TO 95% MAX. DRY

GRADE

DENSITY AS PER ASTM DI557.

USE CLASS II BACKFILL WHERE

SO DIRECTED BY THE ENGINEER.

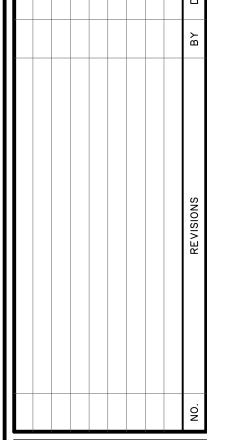
DIP OR PVC RISER -

FOR DEEP VALVE

INSTALLATION

LENGTH AS REQUIRED

NOT TO SCALE



UNDISTURBED SOIL

CARSON INDUSTRIES

MODEL FOR I I/2" WATER METER

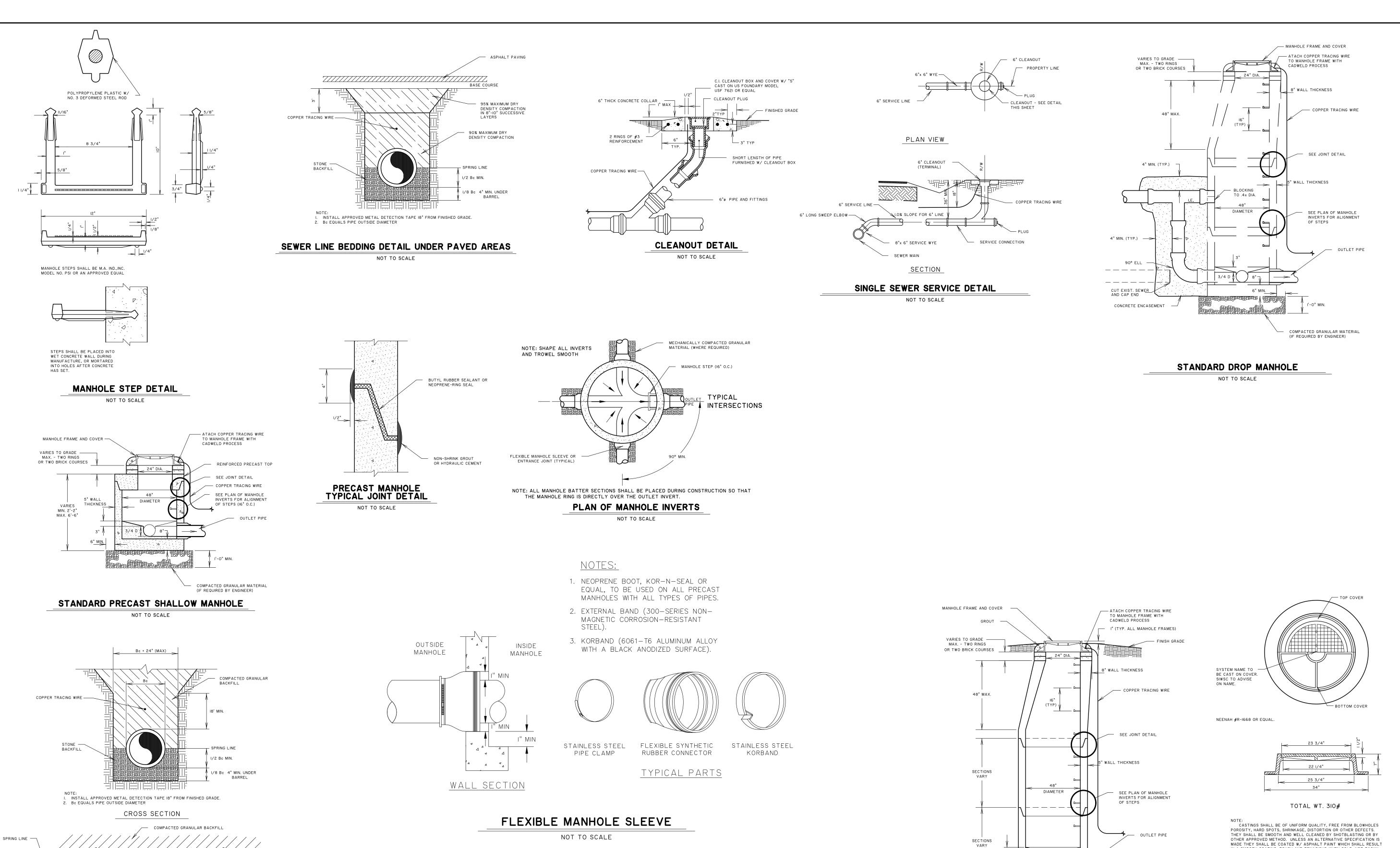
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5/1/23 DRAWN:

DESIGNED: LMD

REVIEWED: DJJ

APPROVED: DJJ



I/8 Bc 4" MIN. UNDER -

- BELL HOLES CUT BY HAND

LONGITUDINAL SECTION

SEWER LINE BEDDING DETAIL

NOT TO SCALE

STANDARD PRECAST MANHOLE

6" MIN.

NOT TO SCALE

(IF REQUIRED BY ENGINEER)

NOTE:

CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOTBLASTING OR BY OTHER APPROVED METHOD. UNLESS AN ALTERNATIVE SPECIFICATION IS MADE THEY SHALL BE COATED W/ ASPHALT PAINT WHICH SHALL RESULT IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY AND NOT BRITTLE.

MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHALL CONFORM TO ASTM, AASTHO, ASA, MIL, AMS OR FEDERAL SPECIFICATIONS FOR IRON OR DUCTILE IRON, AS FOLLOWS: GRAY IRON-ASTM CLASS 30, DUCTILE IRON-GRADE 60-40-I8.

ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN:
COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER, ROUND FRAMES AND COVERS SHALL BE OF NON-ROCKING DESIGN, OR SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING UNDER TRAFFIC.

ALL WEIGHTS GIVEN ARE AVERAGE (AND APPROXIMATE) VALUES.
DEVIATIONS SHALL NOT EXCEED TOLERANCES PERMITTED BY ASTM STANDARDS.
CASTINGS TO MATCH EXISTING SIWSCA STANDARD.

NOT TO SCALE

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



5/1/23

DRAWN:

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BE,

ACHWALKE DETAILS

ZONING RESTRICTIONS - PARCEL 11 MAX # MAX UNITS MAX MAX MAX OF UNITS (R) PER BLDG (R) HEIGHT STORIES F.A.R. (C)

60	,	3 0	4		
LOT CO	VERAGE - PA	RCE	_ 11		
		ALL	OWED/ACTUA	\L	
LOT HIGHLAND	AREA				247,551.48 SQFT
MAX LOT COVE	RAGE (IMPERVIOUS	339	% / 31.09 %		81,691.98 SQFT
MAX SECONDA (PERVIOUS PLUS	ARY COVERAGE S IMPERVIOUS)	39.	.67% / 34.81%	6	98,203.67 SQFT
BUILDINGS		22	.33%		55,280 SQFT
PRIMARY PAVE	MENT	9.	.20%		22,781 SQFT
TOTAL COVERE	D	31.	.53%		78,061 SQFT
PERVIOUS SECO	ONDARY COVERAG	E 3	.72%		9,241 SQFT
*IOT ACCESS EXEMPT FROM SOLIABE FOOTAGE			87,302 SQFT		

PARCEL 11 LOT COVERAGE CALCULATIONS

TOTAL LOT COVERAGE =

BUILDINGS COVERAGE= 55,280 SQFT (6,910 SQFT X 8 TOTAL BUILDINGS)

78,061 SQFT

*LOT ACCESS EXEMPT FROM SQUARE FOOTAGE

PAVEMENT
PAVED ROAD
21,428 SQFT
PRIMARY WALKWAYS
1,088 SQFT
TRASH COLLECTION PAD
165 SQFT
PUMP HOUSE
100 SQFT

PARKING COUNT - PARCEL 11					
UNIT TYPE	TOTAL UNITS	REQUIRED	PROVIDED		
2 BDRM UNITS	1 PER BLDG.	1.75 PER UNIT= 1.75 PER BLDG.	- 14+1 PER BUILDINC (8 BUILDINGS)		
3 BDRM UNITS	6 PER BLDG.	2 PER UNIT= 12 PER BLDG.			
	ON SITE (PROVIDED OUTSIDE BUILDINGS (BY BUILDING 3 & 8)				
		110 TOTAL	128 TOTAL		

NOTE: PARCEL 11 ZONING RESTRICTIONS, LOT COVERAGE CALCULATIONS AND PARKING COUNT CALCULATIONS ARE PER EXHIBIT 13.3 OF THE DEVELOPMENT AGREEMENT

ZONING RESTRICTIONS - PARCEL *

MAX #	MAX UNITS	MAX	MAX	MAX
OF UNITS (R)	PER BLDG (R)	HEIGHT	STORIES	F.A.R. (C)
22 (22.92 PER ACREAGE)	4	40'	2	

	ALLOWED/ACTUAL	
LOT HIGHLAND AREA		65,813.88 SQFT
MAX LOT COVERAGE (IMPERVIOUS)	60% / 49.64%	39,488.33 SQF1
MAX SECONDARY COVERAGE (PERVIOUS PLUS IMPERVIOUS)	66% / 50.09%	43,437.16 SQFT
BUILDINGS	38.28%	25,196 SQFT
PRIMARY PAVEMENT	11.36%	7,477 SQFT
TOTAL COVERED	49.64%	32,673 SQFT
PERVIOUS SECONDARY COVERAGE	0.45%	300 SQFT
		32,973 SQFT

* "POLE" AREA OF A FLAG LOT SHALL BE EXCLUDED FROM HIGHLAND AREA

TOTAL HIGHLAND AREA = 83,830.28 SF -"POLE" AREA = 18,016.40 SF

HIGHLAND AREA = 65,813.88 SF

**PER SEC. 12-63.3 ACCESS DRIVE LOCATED ON THE "POLE" OF A FLAG LOT SHALL BE EXCLUDED FROM LOT COVERAGE

PARCEL * LOT COVERAGE CALCULATIONS

BUILDINGS COVERAGE= 25,196 SQFT (6,299 SQFT X 4 TOTAL BUILDINGS)

PAVED ROAD 7,377 SQFT MAIL KIOSK PAD 100 SQFT

PAVEMENT

PARKING COUNT - PARCEL *

UNIT TYPE TOTAL UNITS REQUIRED

UNIT TYPE

TOTAL UNITS

2 PER BLDG.

1.5 PER 1 BDRM
PER D.U. =
15 PER BUILDING

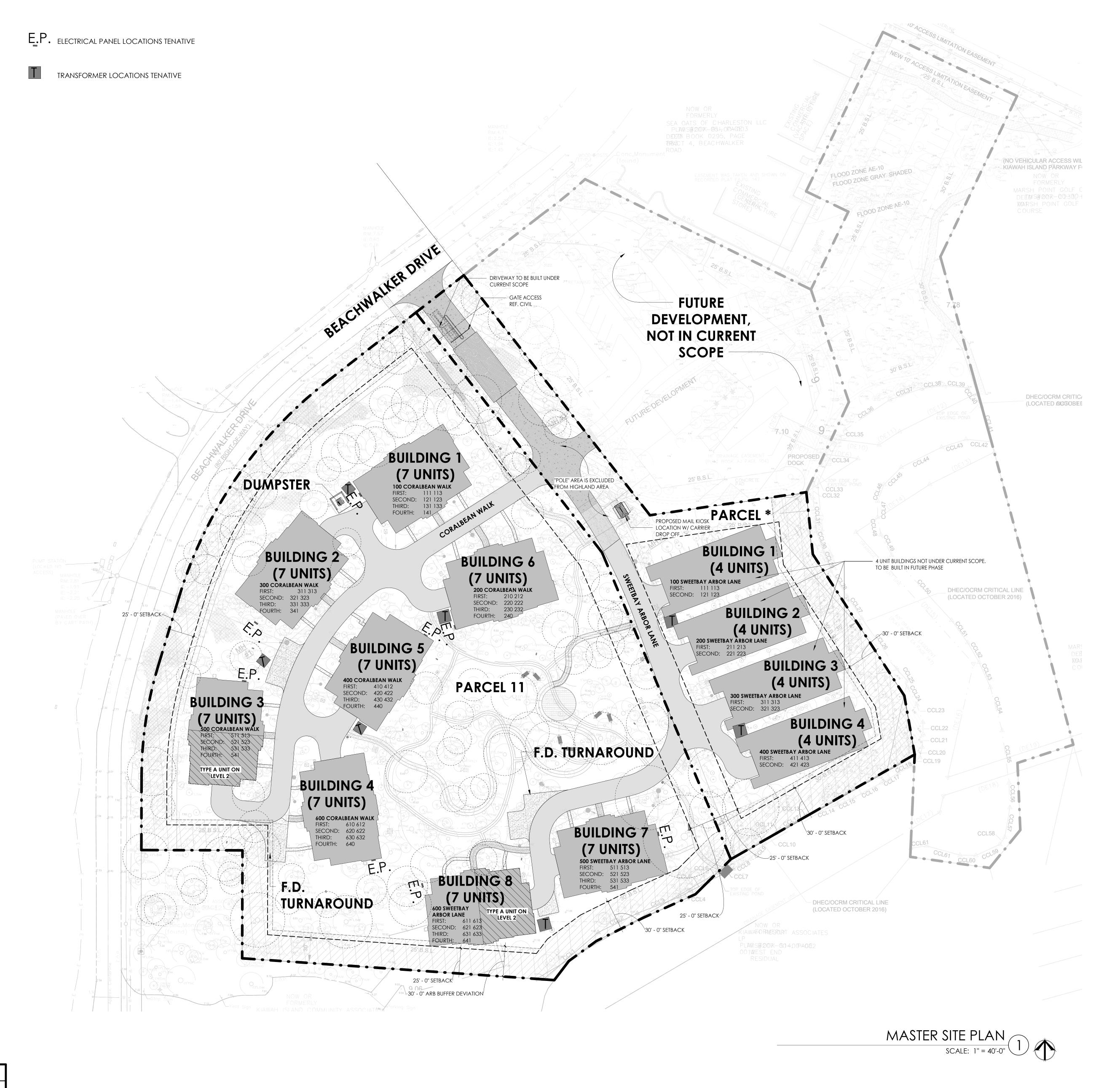
60 TOTAL

60 TOTAL

NOTE: PARCEL * ZONING RESTRICTIONS, LOT COVERAGE CALCULATIONS AND PARKING CALCULATIONS ARE PER TOWN OF KIAWAH ISLAND ZONING

MASTER PLAN UNIT COUNT

TVI/\STER E/\tag{1}\ \OT\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
PARCEL	2 BDRM UNITS	3 BDRM UNITS	TOTAL UNITS	TOTAL SF	EST. BEDS		
PARCEL 11	8	48	56	243,824	160		
PARCEL*	8	8	16	75,558	40		
TOTAL	16	56	72	319,382	200		



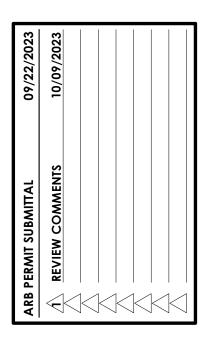
ARCHITECTURE

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FST END AT BEACHWALKER
BEACHWALKER DR
KIAWAH ISLAND, SC

FOR ARB PERMIT

MATTHEW H. KRAGH REG# AR 9839



REG# AR 101418

MASTER SITE PLAN

PHASE CD PR NO 23008



A R C H I T E C T U R E

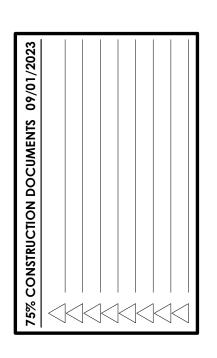
EXTERIOR MATERIAL KEYNOTE LEGEND



X R

THE WEST END AT BEACHWALKER
(7-UNIT BUILDING)
KIAWAH ISLAND





EXTERIOR ELEVATIONS

PHASE CD PR NO 23008



EXTERIOR MATERIAL KEYNOTE LEGEND

KEY MATERIAL

13" NUCEDAR SHINGLES; 5" EXPOSURE

2 STANDING SEAM METAL ROOF

3 CEMENTITIOUS PANELING

4 TABBY STUCCO

5 METAL RAILING

6 FACTORY PRE-PRIMED TREATED WOOD

7 6X6 COLUMN W. 10X10 CEMENTITIOUS COVER AND TRIM

8 WOOD BRACKETS

9 BEVELED 5X5 GUTTER

10 DECORATIVE CORNICE

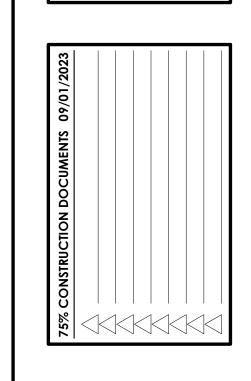
11 DECORATIVE CORBELS

A R C H I T E C T U R I



HE WEST END AT BEACHWALK (7-UNIT BUILDING)
KIAWAH ISLAND





EXTERIOR ELEVATIONS

PHASE CD PR NO 23008

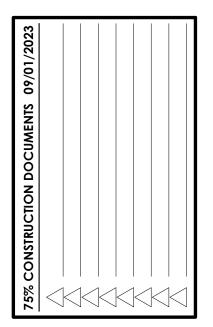


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THE WEST END AT BEACHWALK (7-UNIT BUILDING)
KIAWAH ISLAND





SOUTH CAROLINA SEAL REG# AR 101418

EXTERIOR ELEVATIONS

PHASE CD PR NO 23008

4202|



EXTERIOR MATERIAL KEYNOTE LEGEND

KEY

MATERIAL

13" NUCEDAR SHINGLES; 5" EXPOSURE

12 STANDING SEAM METAL ROOF

13 CEMENTITIOUS PANELING

14 TABBY STUCCO

15 METAL RAILING

16 FACTORY PRE-PRIMED TREATED WOOD

17 6X6 COLUMN W. 10X10 CEMENTITIOUS COVER AND TRIM

18 WOOD BRACKETS

19 BEVELED 5X5 GUTTER

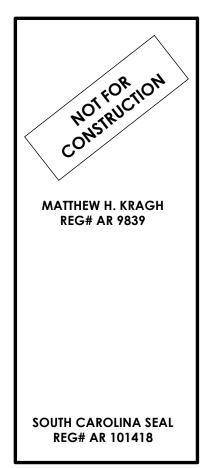
10 DECORATIVE CORNICE

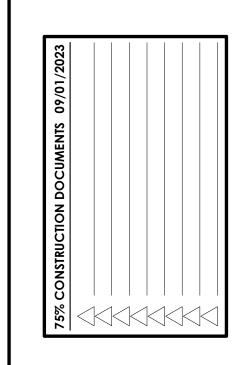
11 DECORATIVE CORBELS

A R C H I T E C T U R E



THE WEST END AT BEACHWALI (7-UNIT BUILDING)
KIAWAH ISLAND

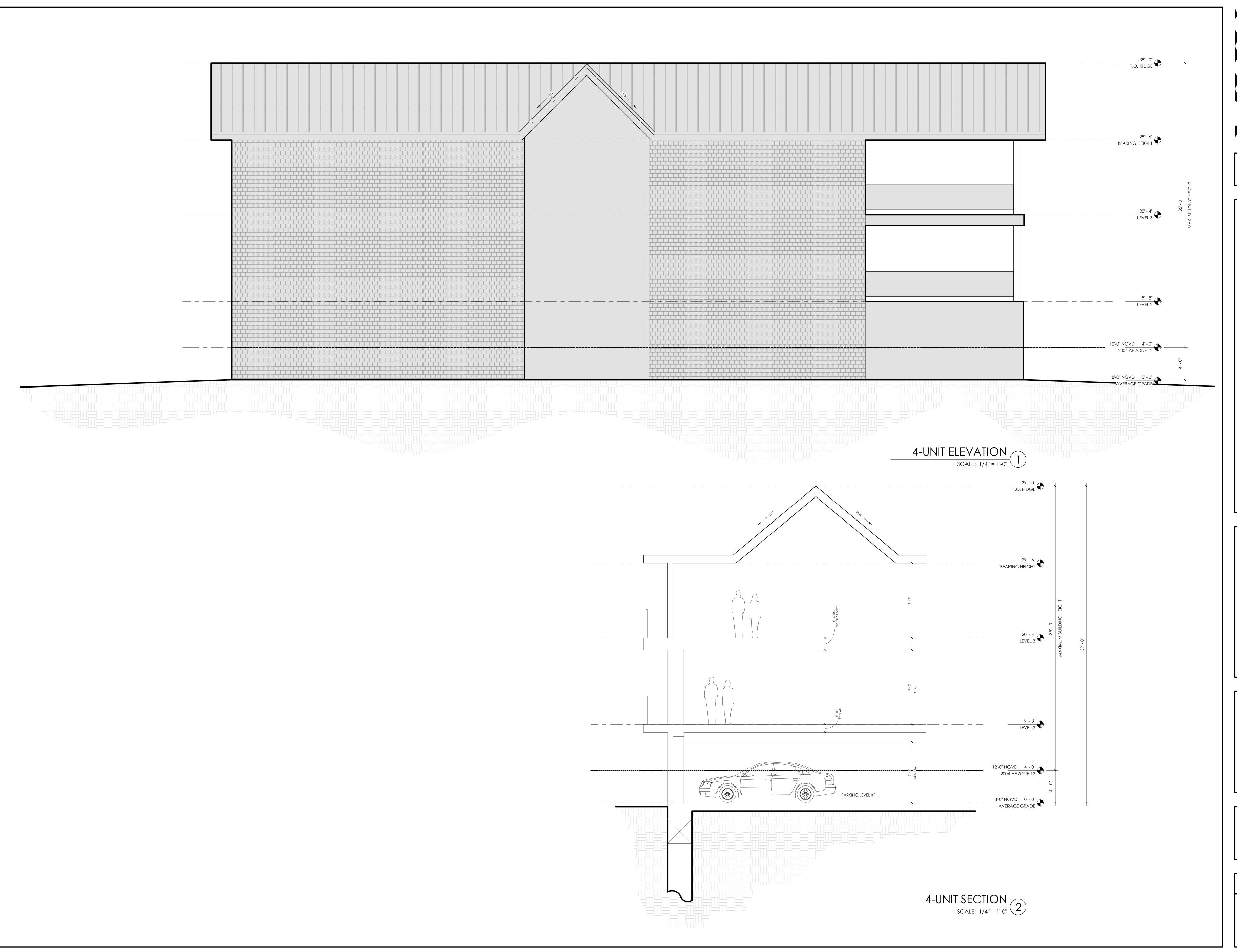




EXTERIOR ELEVATIONS

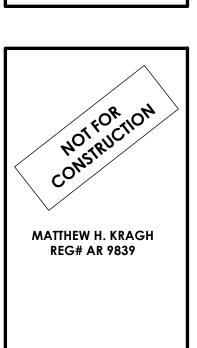
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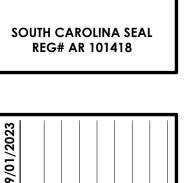
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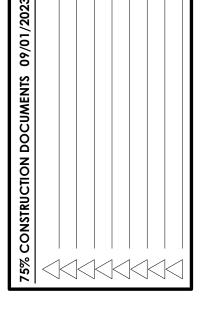












4-UNIT BUILDING PRELIMINARY ELEVATIONS

PHASE CD PR NO 23008