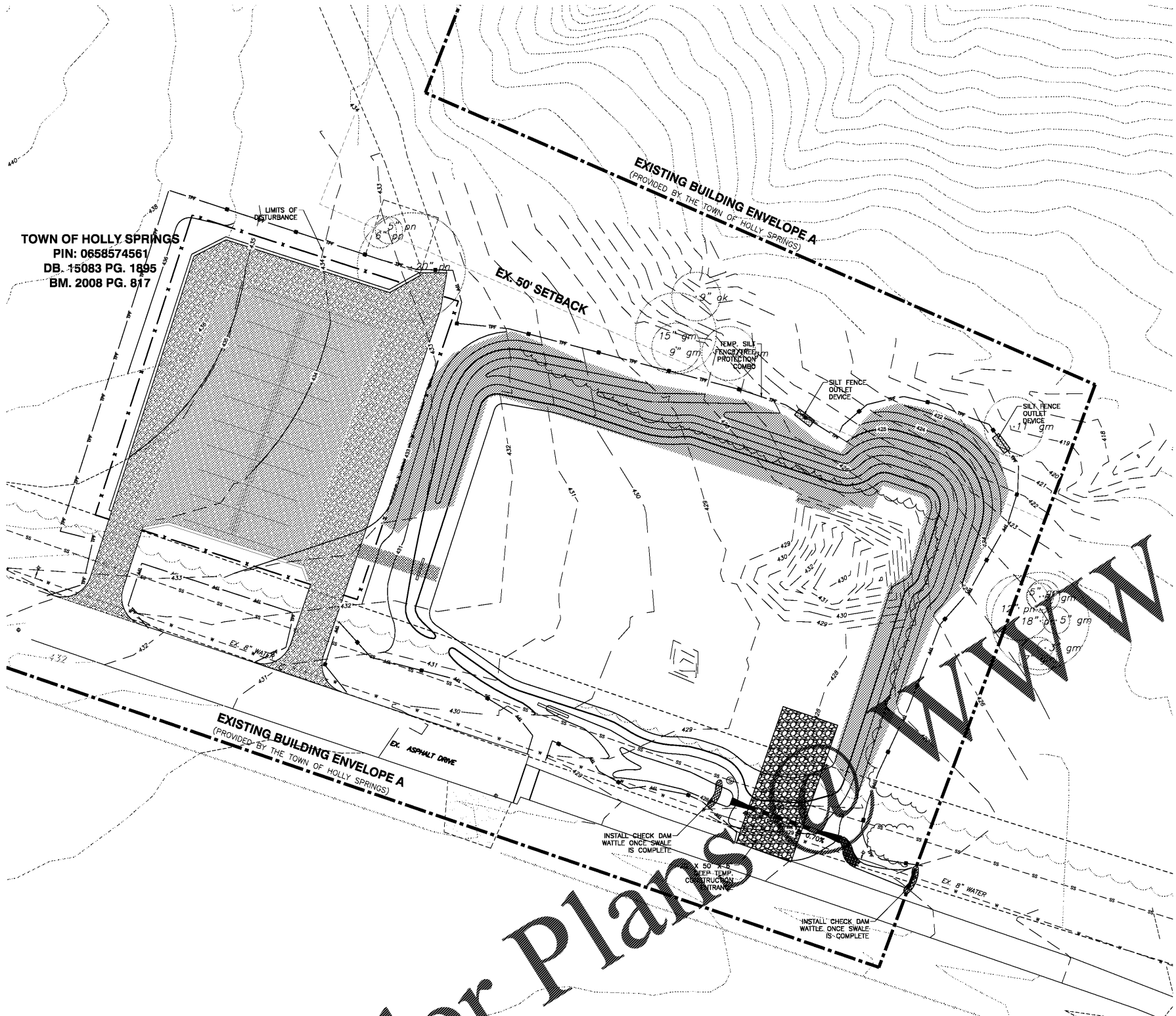


TOWN OF HOLLY SPRINGS
 PIN: 0658574561
 DB. 15083 PG. 1895
 BM. 2008 PG. 817



GROUND COVER SHALL BE APPLIED TO ALL OTHER AREAS WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY. (TYP. - SEE NOTES AND SEEDING SCHEDULE THIS SHEET)
 GROUND COVER SHALL BE APPLIED TO ALL SLOPES 50' IN LENGTH OR GREATER AND STEEPER THAN 3:1 WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY. (TYP. SHADDED AREA-SEE NOTES THIS SHEET)

CONSTRUCTION SEQUENCE

- STAGE ONE CONSTRUCTION SEQUENCE**
- SCHEDULE AND ATTEND PRE-CONSTRUCTION CONFERENCE.
 - OBTAIN LAND DISTURBANCE (GRADING) PERMIT
 - INSTALL TREE PROTECTION ON SITE IF NEEDED
 - INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE APPROVED PLAN. LIMIT CLEARING AND LAND DISTURBING ACTIVITY TO THE AREA NECESSARY TO INSTALL EROSION CONTROL MEASURE.
 - CALL FOR ON-SITE INSPECTION BY ENGINEERING DEPARTMENT PERSONNEL (919-557-3938) TO OBTAIN CERTIFICATE OF COMPLIANCE
 - UPON APPROVAL OF EROSION CONTROL MEASURES REMAINING CLEARING AND GRUBBING MAY PROCEED
 - ONCE CLEARING AND GRUBBING COMPLETE, PROCEED TO STAGE 2 CONSTRUCTION SEQUENCE.
DISTURBED AREA: 0.95 AC
- STAGE TWO CONSTRUCTION SEQUENCE**
- PROCEED WITH GRADING, CONTINUE GRADING AND MAINTAINING EROSION CONTROL DEVICES. KEEP OR REPLACE AT THE END OF THE DAY ALL DIVERSION DITCHES THAT CROSS PROPOSED STREETS. PLEASE NOTE THAT SOME ADDITIONAL EROSION CONTROL DEVICES ARE ADDED OR DELETED BETWEEN STAGE 1 AND STAGE TWO DEVICES.
 - CLEAN SEDIMENT TRAPS AND BASINS WHEN ONE FULL AND CHECK THE MAINTENANCE OF ALL EROSION CONTROL DEVICES WEEKLY AFTER EVERY 1/2" OF RAIN.
 - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC. GROUND COVER SHALL BE PROVIDED AS FOLLOWS:
 - PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ALL PERIMETER AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 CALENDAR DAYS OF TEMPORARILY SUSPENDING OR PERMANENTLY SUSPENDING AND DISTURBING ACTIVITY. PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ALL OTHER AREAS WITHIN 14 CALENDAR DAYS OF TEMPORARILY SUSPENDING OR PERMANENTLY SUSPENDING AND DISTURBING ACTIVITY.
 - ESTABLISH PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT (7 DAYS FOR PERIMETER AREAS AND SLOPES GREATER THAN 3:1) AND/OR PRIOR TO FINISH INSPECTION.
 - INSTALL STORM DRAINAGE SYSTEM. PLEASE NOTE THAT ONE OR MORE STORM PIPE SYSTEMS SHALL BE INSTALLED INTO TEMPORARY SEDIMENT BASINS AND THAT SOME SECTIONS OF PIPING REMAIN UNINSTALLED UNTIL BASINS ARE REMOVED. ONCE BASINS ARE REMOVED, INSTALL SECTIONS OF STORM PIPE THAT WERE ORIGINALLY LEFT OUT.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONES FILTERS MUST BE REFRESHED AND/OR REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - AFTER WORK IS COMPLETE AND PERMANENT STABILIZATION HAS BEEN PROVIDED FOR ALL SITE AREAS (I.E. PAVING, VEGETATION, ETC.), CONTACT THE EROSION CONTROL INSPECTOR FOR A SITE INSPECTION.
 - AFTER APPROVAL BY CONTROL OFFICER, REMOVE ALL EROSION CONTROL MEASURES AND CONVERT ALL PERMANENT BASINS.
 - REMOVE AND DISPOSE OF SEDIMENT WITHIN BASIN AND FINE GRADE BASIN AS SHOWN ON WET DETENTION BASIN DETAILS TO PROVIDE FOREBAY AREA, VEGETATED SHELVE, ETC. THE EMBANKMENTS SHALL BE GRADED TO PROVIDE 3:1 SLOPE AND THE TOP OF THE EMBANKMENT SHALL PROVIDE A 10-FOOT WIDE ACCESS IN ACCORDANCE WITH THE PROPOSED WET DETENTION BASIN DESIGN DETAILS.
 - REQUEST FINAL APPROVAL BY ENGINEERING DEPARTMENT-CERTIFICATE OF COMPLETION

GROUND STABILIZATION REQUIREMENTS

- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
 - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
 - EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
 - ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY-REQUIREMENT APPLIES.
 - ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT
 - SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.
 - ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.
 - FOR PORTIONS OF PROJECT WITHIN THE SEDIMENT CONTROL COMMISSION-DEFINED "HIGH QUALITY WATER ZONE" (15A NCAC 04A. 01 05) , STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACT.
 - PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IDENTIFIED ON THE APPROVED E&S PLAN OR ADDED BY THE PERMITTING AUTHORITY.

DRIVEWAY PIPE CALCS

Project Description	
Worksheet	Circular Channel
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Channel Depth
Input Data	
Manning's Coeffit	0.013
Slope	0.07000 ft/ft
Diameter	15 in
Discharge	4.00 cfs
Results	
Depth	0.80 ft
Flow Area	0.8 ft²
Wetted Perim	2.32 ft
Top Width	1.20 ft
Critical Depth	0.81 ft
Percent Full	94.0 %
Critical Slope	0.06774 ft/ft
Velocity	4.82 ft/s
Velocity Head	0.56 ft
Specific Energ	1.16 ft
Froude Number	1.02
Maximum Disc	5.81 cfs
Discharge Full	5.40 cfs
Slope Full	0.02826 ft/ft
Flow Type	Supercritical

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TABLE 4.1
SEEDING EROSION CONTROL SCHEDULE
(UNIFORM SLOPE 2:1)

DATE*	FORE	PLANT	RATE
AUGUST 15 - NOVEMBER 1	SALT PESSIDE OR NINE FOLIAGE	50 LBS/ACRE	100 LBS/ACRE
NOVEMBER 1 - MARCH 1	SALT PESSIDE OR NINE FOLIAGE OR BROMUS CRYSTALLINUS	50 LBS/ACRE	100 LBS/ACRE
MARCH 1 - APRIL 15	SALT PESSIDE OR NINE FOLIAGE	50 LBS/ACRE	100 LBS/ACRE
MARCH 1 - JULY 15	HULLED CORN AND BERMUDA GRASS OR SHRIMP BERMUDA GRASS OR CENTROPIS GRASS OR ZOSTER GRASS OR ST. AUGUSTINE GRASS	50 LBS/ACRE	100 LBS/ACRE
APRIL 15 - JUNE 30	SHRIMP BERMUDA GRASS OR BERMUDA GRASS	50 LBS/ACRE	100 LBS/ACRE
JULY 15 - AUGUST 15	SHRIMP BERMUDA GRASS	50 LBS/ACRE	100 LBS/ACRE

*Temporary - Based according to optimum season for species vegetation. Do not allow temporary cover to grow over 12 inches in height before covering to final species from being eroded and
 *Mowing dates will vary depending on weather conditions (e.g. temperature, rainfall, etc.)
 *Note on maintenance: mow once if growth is not fully developed. Remove mowings and mulch immediately following erosion or other storms.
 *Sloped areas to be stabilized with native grasses and vegetation

TABLE 4.2
SEEDING EROSION CONTROL SCHEDULE
(SLOPES 3:1 AND 2:1 - NOT MOWED)

DATE	TYPE	PLANTING RATE
MARCH 1 - JUNE 1	SEEDS: LEOPARDEA (COURTNEY)	50 LBS/ACRE
MARCH 1 - APRIL 15	500 SALT PESSIDE	100 LBS/ACRE
MARCH 1 - JUNE 30	500 WEEPING LOVAGEASE	10 LBS/ACRE
MARCH 1 - JUNE 30	500 POLYTRICHUM SPERMATOPHYTES	20 LBS/ACRE
JUNE 1 - SEPTEMBER 1	TRAIL PESSIDE AND 500 WEEPING LOVAGEASE	100 LBS/ACRE
SEPTEMBER 1 - MARCH 1	SEEDS: LEOPARDEA (COURTNEY)-COURTNEY, 400 500 POLYTRICHUM SPERMATOPHYTES AND 200 500 WEEPING LOVAGEASE	70 LBS/ACRE 100 LBS/ACRE 20 LBS/ACRE

The temporary seeding schedule:
 Note on maintenance: mow once if growth is not fully developed. Please, refer to and mow immediately following erosion or other storms.
 *Sloped areas to be stabilized with native seeds mix.

LEGEND

- TEMP LOW SPOT SILT FENCE OUTLET
- TEMP WATTLE
- TEMP SILT SOCK
- TEMP INLET PROTECTION
- TEMP SEDIMENT BASIN
- TEMP CONSTRUCTION ENTRANCE
- TEMP DIVERSION DITCH (LINED-SEE DETAIL)
- TEMP SILT FENCE
- TEMP TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- EXCELSIOR MATTING
- TEMP. TREE PROTECTION/SILT FENCE COMBO

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AFTER EVERY RAIN EVENT AND ONCE PER WEEK. THE CONTRACTOR OR THE OWNER SHALL CONDUCT INSPECTIONS IN COMPLIANCE WITH INSPECTION REQUIREMENTS AND RECORDS OF THOSE INSPECTIONS SHALL BE KEPT AVAILABLE ONSITE.

ALL ADJACENT STREETS WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF HOLLY SPRINGS



EROSION CONTROL PLAN

SHEET
C3.2
 PLOT DATE 12/11/18
 REVISION 03/25/19

