

GRID NAD 1983

**NOTES**

1. PROPERTY IS LOCATED IN FLOOD ZONE 'X' ACCORDING TO F.E.M.A. F.I.R.M. PANEL 45015C 0595 E & 0615 E DATED DECEMBER 7, 2018.
2. PROPERTY IS ZONED GOOSE CREEK PD.
3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY, AND DO NOT CONSTITUTE A TITLE SEARCH.
4. HORIZONTAL DATUM IS BASED ON NAD 1983.
5. VERTICAL ELEVATIONS ARE BASED ON 1988 NAVD DATUM.
6. T.M.S. # 235-00-00-065 CONTAINS 8.64 ACRES, OR 376,480.97 SQ. FT. THE AREA WAS DETERMINED BY THE COORDINATE METHOD.
7. THE OWNER OF THIS PROPERTY IS HENTY BROWN SELF STORAGE LLC.
8. ANYTHING SHOWN OUTSIDE THE DEFINED PROJECT AREA OF THE SURVEYED PROPERTY IS FOR DESCRIPTIVE PURPOSES ONLY.
9. WATER PROVIDED BY TOWN OF GOOSE CREEK.
10. SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-066  
TRACT E2-B4

**PARCEL A1**  
376,480.97 SQ. FT. (TOTAL)  
8.64 ACRES (TOTAL)

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-083  
PARCEL A2

**LEGEND**

- ⊙ SSMH-SANITARY SEWER MH
- ⊙ UNDERGROUND GAS LINE
- BELLSOUTH UG COMMUNICATIONS
- ⊙ BELLSOUTH PHONE PEDESTAL
- ⊙ P/P (POWER POLE) - DOMINION
- ☀ LP-LIGHT POLE
- ⊙ GUY WIRE
- ⊙ WM-WATER METER
- ⊙ WV-WATER VALVE
- ⊙ FH (FIRE HYDRANT)
- ⊙ OHP OVERHEAD POWER
- 3/4" REBARS
- ⊙ FIBER OPTIC (FO) BOX
- ⊙ J.B.-JUNCTION BOX
- SMH SEWER MANHOLE
- RCP REINFORCED CONCRETE PIPE
- I.E. INVERT ELEVATION

**PLAT REFERENCES**

1. PLAT BOOK N PAGE 344H..
2. PLAT BOOK S PAGE 363I.

**BOUNDARY, TOPOGRAPHIC  
& TREE SURVEY OF  
PARCEL A1, T.M.S. # 235-00-00-065  
HENRY E. BROWN, JR. BLVD.  
CONTAINING 8.64 ACRES  
LOCATED IN THE TOWN OF GOOSE CREEK  
BERKELEY COUNTY, SOUTH CAROLINA**

SCALE: 1" = 50'

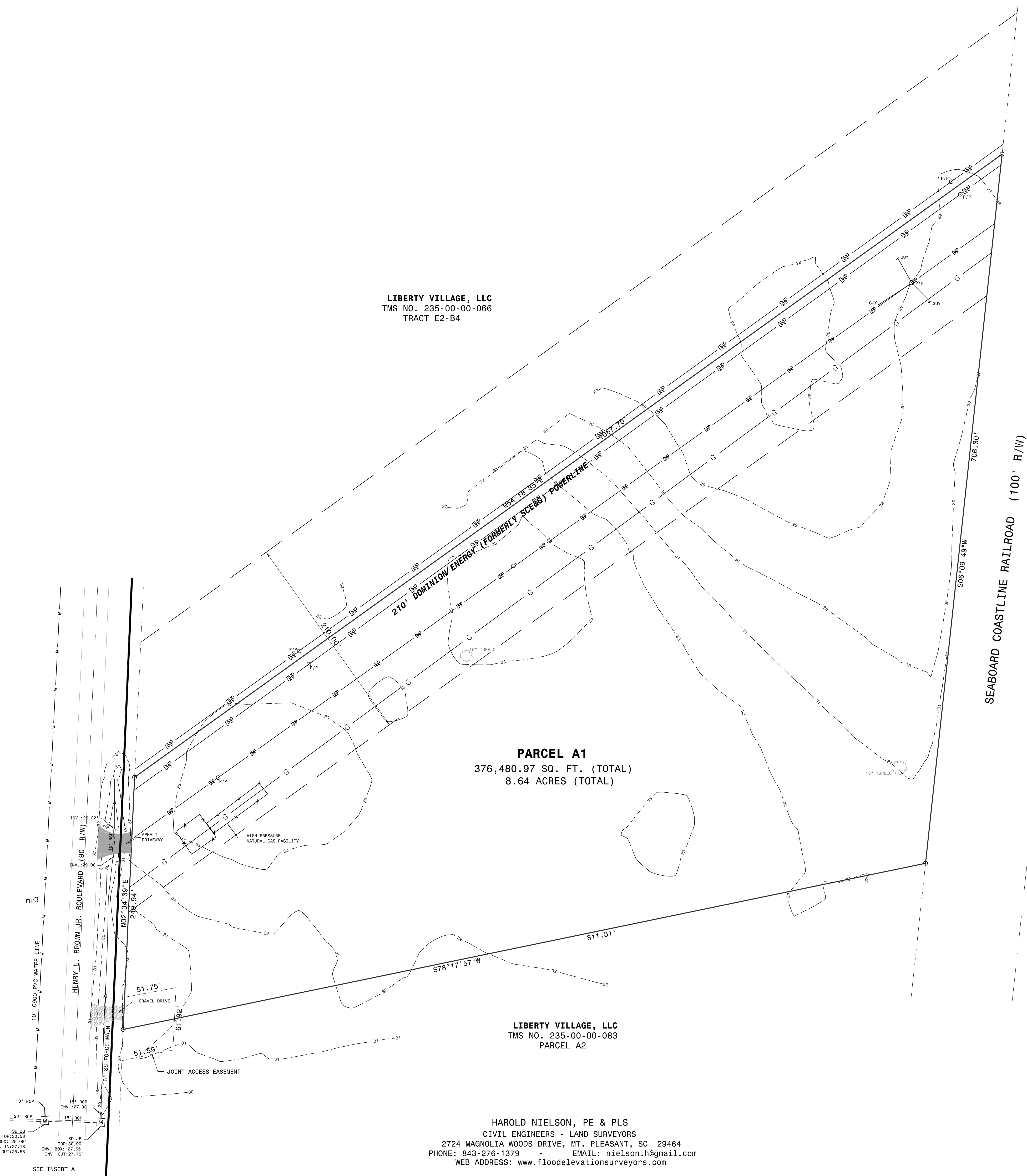
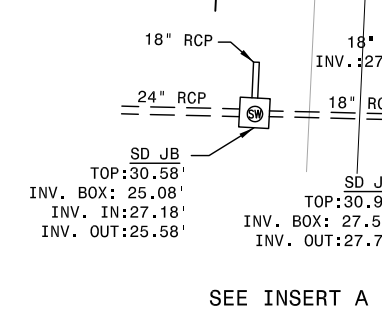
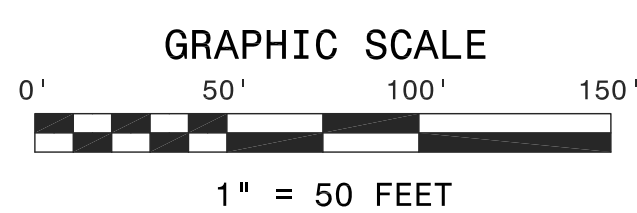
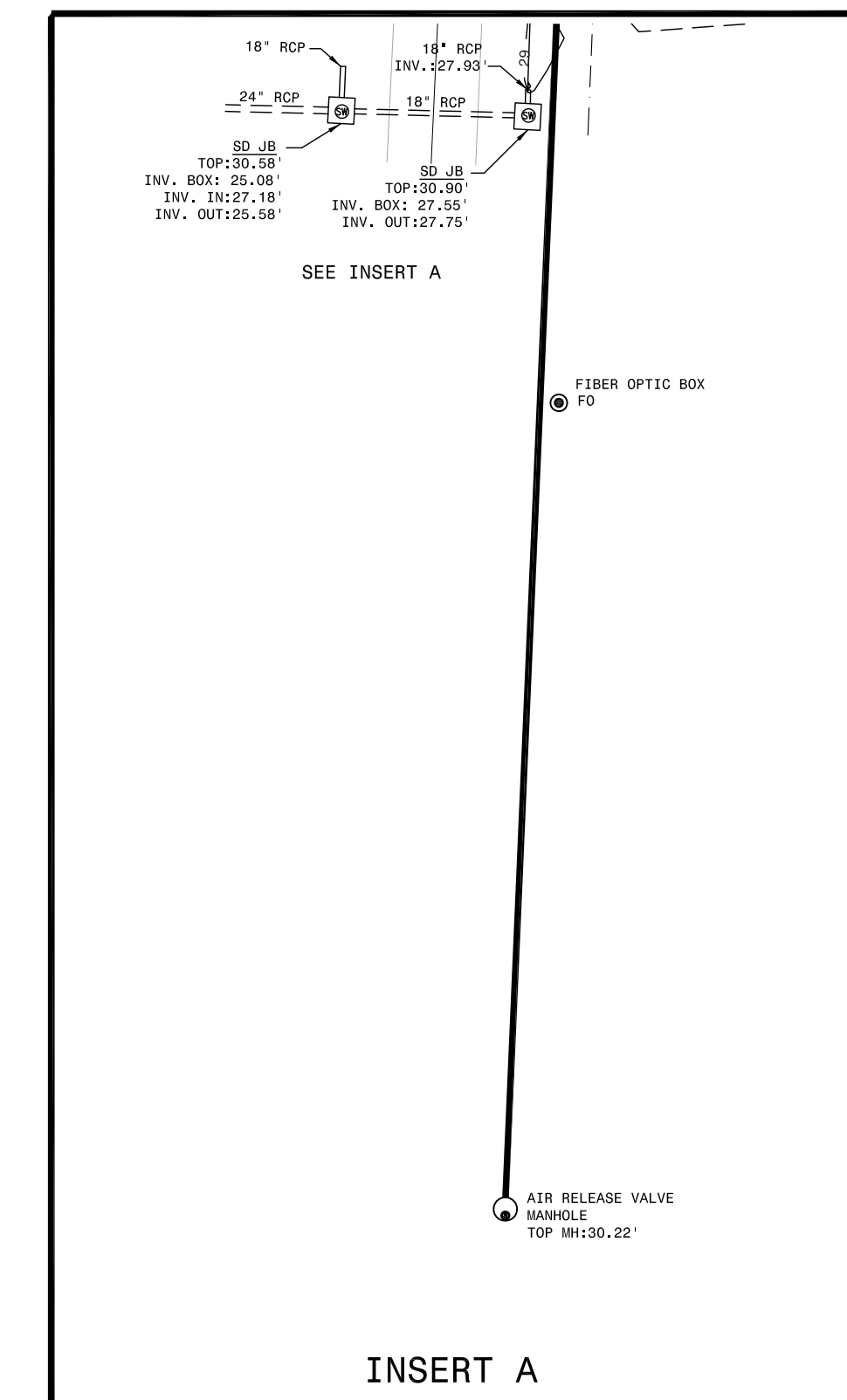
JULY 22, 2019

I HEREBY STATE THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS 'A' SURVEY AS SPECIFIED HEREIN.

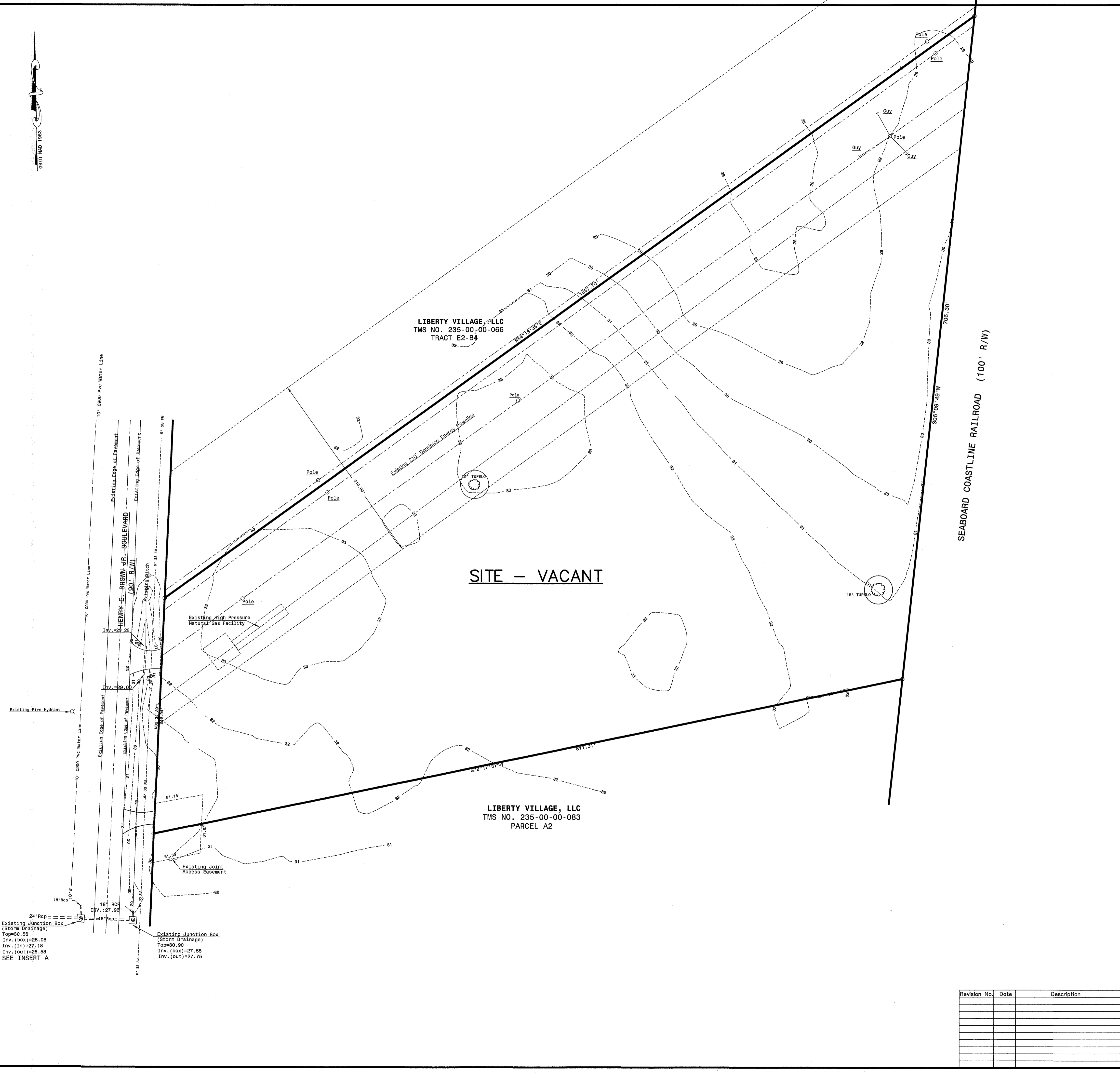
*Harold Nielson*  
HAROLD NIELSON, PE & PLS S.C.NO. 7023



HAROLD NIELSON, PE & PLS  
CIVIL ENGINEERS - LAND SURVEYORS  
2724 MAGNOLIA WOODS DRIVE, MT. PLEASANT, SC 29464  
PHONE: 843-276-1379 - EMAIL: nielson.h@gmail.com  
WEB ADDRESS: www.floodelevationsurveyors.com



GRID 1940 1988



LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-066  
TRACT E2-B4

SITE - VACANT

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-083  
PARCEL A2

SEE SWPPP PLAN FOR LOCATIONS OF ALL TREE PROTECTION MEASURES AND SILT FENCING LOCATIONS. ALL MEASURES MUST BE INSTALLED, INSPECTED AND APPROVED BY CITY STAFF PRIOR TO CONSTRUCTION. SEE SWPPP FOR ALL LOCATIONS, DETAILS, ETC.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE ENTIRE PROJECT SITE SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE CONSTRUCTION AS SHOWN ON THE ACCOMPANYING PLANS. HOWEVER, EXISTING TREES TO BE SAVED SHALL BE PROTECTED BY THE CONTRACTOR AND SHALL NOT BE REMOVED UNLESS INSTRUCTED BY THE PLANS.
3. THERE SHALL BE NO BURNING ON SITE UNLESS THE CITY OF GOOSE CREEK APPROVES AND PERMITS BURNING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMIT IF NECESSARY.
4. ALL EXISTING STRUCTURES AND RELATED FOOTINGS, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF ACCORDING TO APPLICABLE REGULATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO FACILITATE CONSTRUCTION.
6. EXISTING SEPTIC TANKS/GREASE TRAPS, UNDERGROUND TANKS, IF ENCOUNTERED, ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES. THE LOCATION OF THE TANK(S) SHALL BE RECORDED AND THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT ONCE.
7. WELLS, IF ENCOUNTERED, SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR AND THE SURROUNDING AREA SHALL BE BARRICADED AND GRADES SHALL BE MAINTAINED IN THE AREA SUCH THAT SURFACE RUNOFF CANNOT ENTER THE WELL OPENING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT ONCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL MONITORING WELLS (IF ENCOUNTERED).
9. THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE. ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.
10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION.
11. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
12. DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.

SURVEY LEGEND

- ⊙ SMH-SANITARY SEWER MH
- ⊙ UNDERGROUND GAS LINE
- ⊙ BELLSOUTH UG COMMUNICATIONS
- ⊙ BELLSOUTH PHONE PEDESTAL
- ⊙ P/P (POWER POLE) - DOMINION
- ⊙ LP-LIGHT POLE
- ⊙ GUY WIRE
- ⊙ WM-WATER METER
- ⊙ WV-WATER VALVE
- ⊙ FH (FIRE HYDRANT)
- ⊙ OHP OVERHEAD POWER
- ⊙ 3/4" REBARS
- ⊙ FIBER OPTIC (FO) BOX
- ⊙ J.B.-JUNCTION BOX
- SMH SEWER MANHOLE
- RCP REINFORCED CONCRETE PIPE
- I.E. INVERT ELEVATION

PLAT REFERENCES

1. PLAT BOOK N PAGE 344H..
2. PLAT BOOK S PAGE 363I.

NOTES:

1. THE TOTAL AREA OF SITE IS 8.65 ACRES AND IS ZONED PUD - GC.
2. SITE IS IDENTIFIED AS PARCEL A1 AND IS IDENTIFIED AS TMS 235-00-00-066.
3. BOUNDARY AND TOPOGRAPHICAL SURVEYING BY NIELSON AND ASSOCIATES, INC.
4. THE PROPOSED DEVELOPMENT IS A SELF STORAGE FACILITY.
5. THE SITE IS PRESENTLY VACANT.
6. ALL DIMENSIONS ARE TO THE FACE OF ASPHALT UNLESS OTHERWISE NOTED.
7. REFER TO PARKING SUMMARY FOR STALL SIZES AND COUNT.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
9. WATER PROVIDED BY TOWN OF GOOSE CREEK.
10. SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

EXISTING CONDITIONS and DEMOLITION PLAN

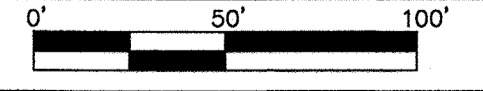
PREPARED FOR

BRICKHOPE SELF STORAGE

CITY OF GOOSE CREEK, SOUTH CAROLINA

DATE: February 1, 2020

Scale: 1" = 50'

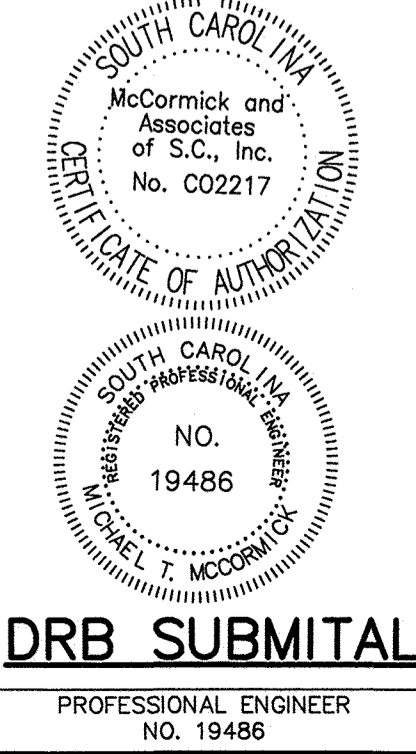


McCORMICK and ASSOCIATES OF S.C., INC.  
CIVIL ENGINEERS

1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

Project No: 571

Drawing No. C2 of C11

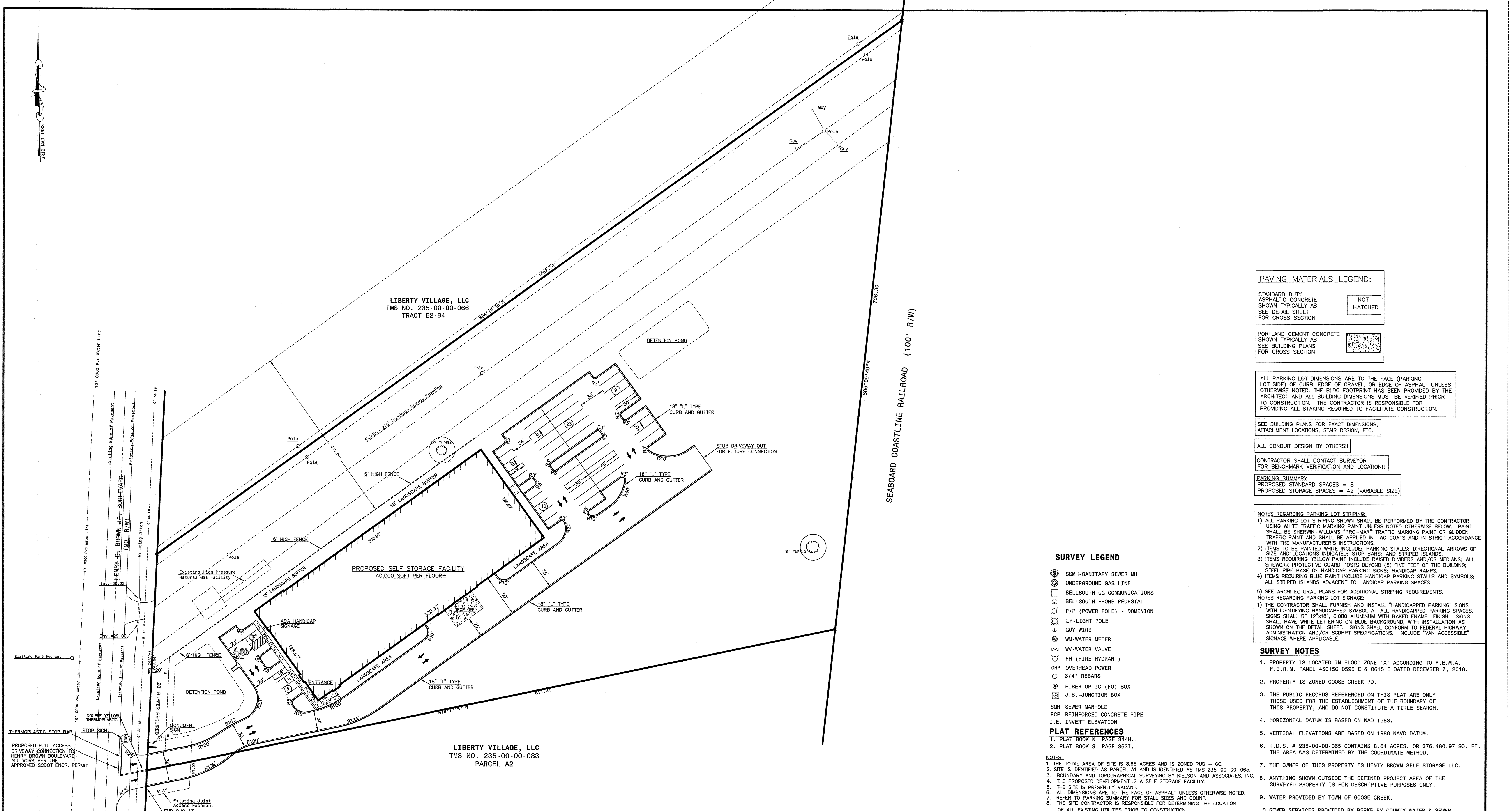


DRB SUBMITAL  
PROFESSIONAL ENGINEER  
NO. 19486

Revision No.	Date	Description	By

Existing Junction Box (Storm Drainage)  
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Inv. (box)=25.06  
Inv. (in)=27.18  
Inv. (out)=25.58  
SEE INSERT A

Existing Junction Box (Storm Drainage)  
Top=30.00  
Inv. (box)=27.65  
Inv. (out)=27.75



LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-066  
TRACT E2-B4

PROPOSED SELF STORAGE FACILITY  
40,000 SQFT PER FLOOR±

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-083  
PARCEL A2

**PAVING MATERIALS LEGEND:**

STANDARD DUTY ASPHALTIC CONCRETE SHOWN TYPICALLY AS SEE DETAIL SHEET FOR CROSS SECTION	NOT HATCHED
PORTLAND CEMENT CONCRETE SHOWN TYPICALLY AS SEE BUILDING PLANS FOR CROSS SECTION	HATCHED

ALL PARKING LOT DIMENSIONS ARE TO THE FACE (PARKING LOT SIDE) OF CURB, EDGE OF GRAVEL OR EDGE OF ASPHALT UNLESS OTHERWISE NOTED. THE BLDG FOOTPRINT HAS BEEN PROVIDED BY THE ARCHITECT AND ALL BUILDING DIMENSIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STAKING REQUIRED TO FACILITATE CONSTRUCTION.

SEE BUILDING PLANS FOR EXACT DIMENSIONS, ATTACHMENT LOCATIONS, STAIR DESIGN, ETC.

ALL CONDUIT DESIGN BY OTHERS!!

CONTRACTOR SHALL CONTACT SURVEYOR FOR BENCHMARK VERIFICATION AND LOCATION!!

**PARKING SUMMARY:**  
PROPOSED STANDARD SPACES = 8  
PROPOSED STORAGE SPACES = 42 (VARIABLE SIZE)

- NOTES REGARDING PARKING LOT STRIPING:**
- 1) ALL PARKING LOT STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING WHITE TRAFFIC MARKING PAINT UNLESS NOTED OTHERWISE BELOW. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MAR" TRAFFIC MARKING PAINT OR GLODEN TRAFFIC PAINT AND SHALL BE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - 2) ITEMS TO BE PAINTED WHITE INCLUDE: PARKING STALLS; DIRECTIONAL ARROWS OF SIZE AND LOCATIONS INDICATED; STOP BARS; AND STRIPED ISLANDS.
  - 3) ITEMS REQUIRING YELLOW PAINT INCLUDE RAISED DIVIDERS AND/OR MEDIANS; ALL STEWART PROTECTIVE GUARD POSTS BEYOND (5) FIVE FEET OF THE BUILDING; STEEL PIPE BASE OF HANDICAP PARKING SIGNS; HANDICAP RAMPS.
  - 4) ITEMS REQUIRING BLUE PAINT INCLUDE HANDICAP PARKING STALLS AND SYMBOLS; ALL STRIPED ISLANDS ADJACENT TO HANDICAP PARKING SPACES.
  - 5) SEE ARCHITECTURAL PLANS FOR ADDITIONAL STRIPING REQUIREMENTS.
- NOTES REGARDING PARKING LOT SIGNAGE:**
- 1) THE CONTRACTOR SHALL FURNISH AND INSTALL "HANDICAPPED PARKING" SIGNS WITH IDENTIFYING HANDICAPPED SYMBOL, AT ALL HANDICAPPED PARKING SPACES. SIGNS SHALL BE 12"x18", 0.080 ALUMINUM WITH BAKED ENAMEL FINISH. SIGNS SHALL HAVE WHITE LETTERING ON BLUE BACKGROUND, WITH INSTALLATION AS SHOWN ON THE DETAIL SHEET. SIGNS SHALL CONFORM TO FEDERAL HIGHWAY ADMINISTRATION AND/OR SCDHPT SPECIFICATIONS. INCLUDE "VAN ACCESSIBLE" SIGNAGE WHERE APPLICABLE.

**SURVEY LEGEND**

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**SURVEY NOTES**

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7. THE OWNER OF THIS PROPERTY IS HENRY BROWN SELF STORAGE LLC.
8. ANYTHING SHOWN OUTSIDE THE DEFINED PROJECT AREA OF THE SURVEYED PROPERTY IS FOR DESCRIPTIVE PURPOSES ONLY.
9. WATER PROVIDED BY TOWN OF GOOSE CREEK.
10. SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

PROPOSED FULL ACCESS DRIVEWAY CONNECTION TO HENRY BROWN BOULEVARD - ALL WORK PER THE APPROVED SCOTT ENCR. PERMIT

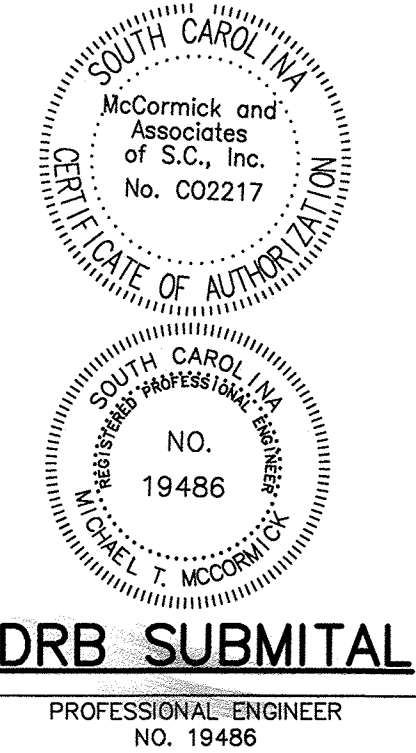
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Inv. (box)=25.08  
Inv. (in)=27.18  
Inv. (out)=25.58  
SEE INSERT A

Existing Junction Box (Storm Drainage)  
Top=90.90  
Inv. (box)=27.55  
Inv. (out)=27.75

**SITE PLAN**  
PREPARED FOR  
**BRICKHOPE SELF STORAGE**

CITY OF GOOSE CREEK, SOUTH CAROLINA  
DATE: February 1, 2020  
Scale: 1" = 50'

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS  
1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

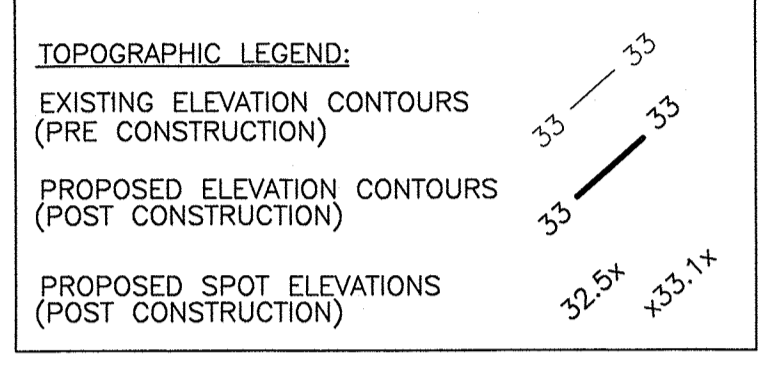


Revision No.	Date	Description	By

Project No: 571 Drawing No. of xx

DATE AND TIME

ALL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE IN PLACE PRIOR TO DEMOLITION ACTIVITIES!! SEE SWPPP FOR EXACT DETAILS AND LOCATIONS!!!



THE CONTRACTOR IS REMINDED THAT IN ADDITION TO THE GRADING SCOPE OF WORK SHOWN ON THIS PLAN, ALL RECOMMENDATIONS CONTAINED IN THE SUBSURFACE EXPLORATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR!! (OBTAIN FROM OWNER)

ALL SPOT ELEVATIONS SHOWN ARE TO THE BOTTOM FACE OF ASPHALT UNLESS OTHERWISE NOTED!!

CONTRACTOR SHALL CONSTRUCT HANDICAP STALLS, AISLES, ACCESSIBLE ROUTE TO THE BUILDING, RAMPS, ETC. MEETING ALL GOVERNING ADA REQUIREMENTS AND REGULATIONS. IF SIDEWALKS, RAMPS, ACCESSIBLE ROUTES ARE CONSTRUCTED AND ARE NOT ADA COMPLIANT THE CONTRACTOR SHALL REMOVE/REPLACE AT HIS EXPENSE. PLACE HANDRAILS AS REQUIRED.

ROOF DRAINAGE LINES SHOWN AS ..... ALL ROOF DRAINAGE LINES SHALL BE AS PER THE DESIGN ON THIS PLAN (INVERTS, DIAMETERS, ROUTES, ETC.) SLOPES NOT LABELED WITH INVERTS SHALL BE 1.0% MINIMUM. KEEP ACCURATE RECORDS.

- DRAINAGE FACILITIES MAINTENANCE PLAN
1. ALL STORMWATER MANAGEMENT OF THE DRAINAGE SYSTEM SHALL BE BY OWNER. FUNCTIONAL MAINTENANCE BY OWNER SHALL BE PERFORMED ONCE EVERY SIX (6) MONTHS OR AS NECESSARY TO INSURE THE DRAINAGE SYSTEM PERFORM AS DESIGNED TO PROVIDE NECESSARY FLOOD AND WATER QUALITY CONTROL.
2. OWNER IS RESPONSIBLE FOR AESTHETIC MAINTENANCE OF THE SYSTEM AND SHALL ESTABLISH AND PERFORM AN ACCEPTABLE LEVEL OF MAINTENANCE PER THE COMMUNITY'S STANDARDS.
3. MAINTENANCE SHALL INCLUDE INSPECTION OF THE DRAINAGE LINES AND STRUCTURES, REMOVAL OF DEBRIS, WEED REMOVAL (MANUAL REMOVAL PREFERRED) REPAIR AND REPLACEMENT OF DAMAGED STRUCTURES, AND REPAIR OF EROSION IN AND AROUND THE SYSTEM. ALL ACCUMULATED DEBRIS AND SILTATION SHALL BE REMOVED FROM THE SYSTEM.
4. IT SHALL BE THE CONTRACTOR'S TO MAINTAIN AND OPERATE ALL DRAINAGE LINES AND STRUCTURES, NOT LOCATED WITHIN THE ROADWAY RIGHT-OF-WAYS OR DEDICATED EASEMENTS, IN A MANNER TO ADHERE TO BERKELEY COUNTY (MS) AND OFFICE OF OCEAN AND COASTAL RESOURCES MANAGEMENT'S REGULATIONS AND GUIDELINES DURING CONSTRUCTION.
5. SILT FENCE INSTALLED BY THE SITE CONTRACTOR SHALL BE MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION. SEDIMENT BUILD UP AT THE SILT FENCING SHALL BE REMOVED PERIODICALLY AS NEEDED.
6. ALL GRASS SHALL BE CONSISTENTLY MOWED.
7. ALL TRASH AND SEDIMENT SHALL BE REMOVED FROM INSIDE OF AND AROUND THE DRAINAGE SYSTEM EVERY 7 DAYS.
8. THE OUTLET PIPE IS TO BE CLEANED, INSPECTED AND REPAIRED EVERY 7 DAYS.
9. ALL SEDIMENT ACCUMULATION SHALL BE REMOVED FROM THE SYSTEM EVERY 7 DAYS.

SURVEY LEGEND

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UNDERGROUND GAS LINE
BELLSOUTH US COMMUNICATIONS
BELLSOUTH PHONE PEDESTAL
P/P (POWER POLE) - DOMINION
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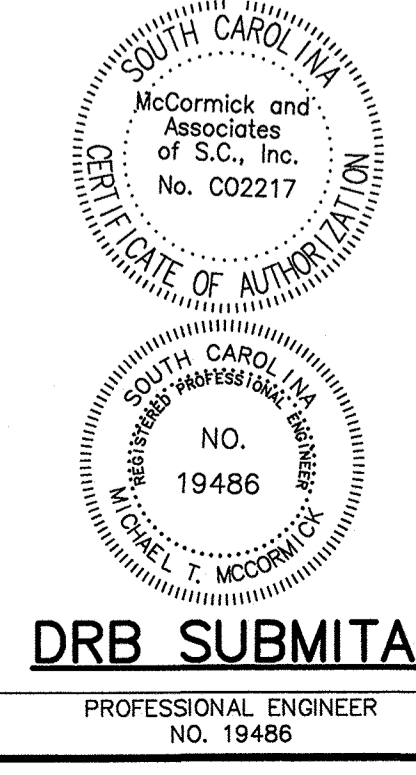
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GRADING and STORM DRAINAGE PLAN

BRICKHOPE SELF STORAGE

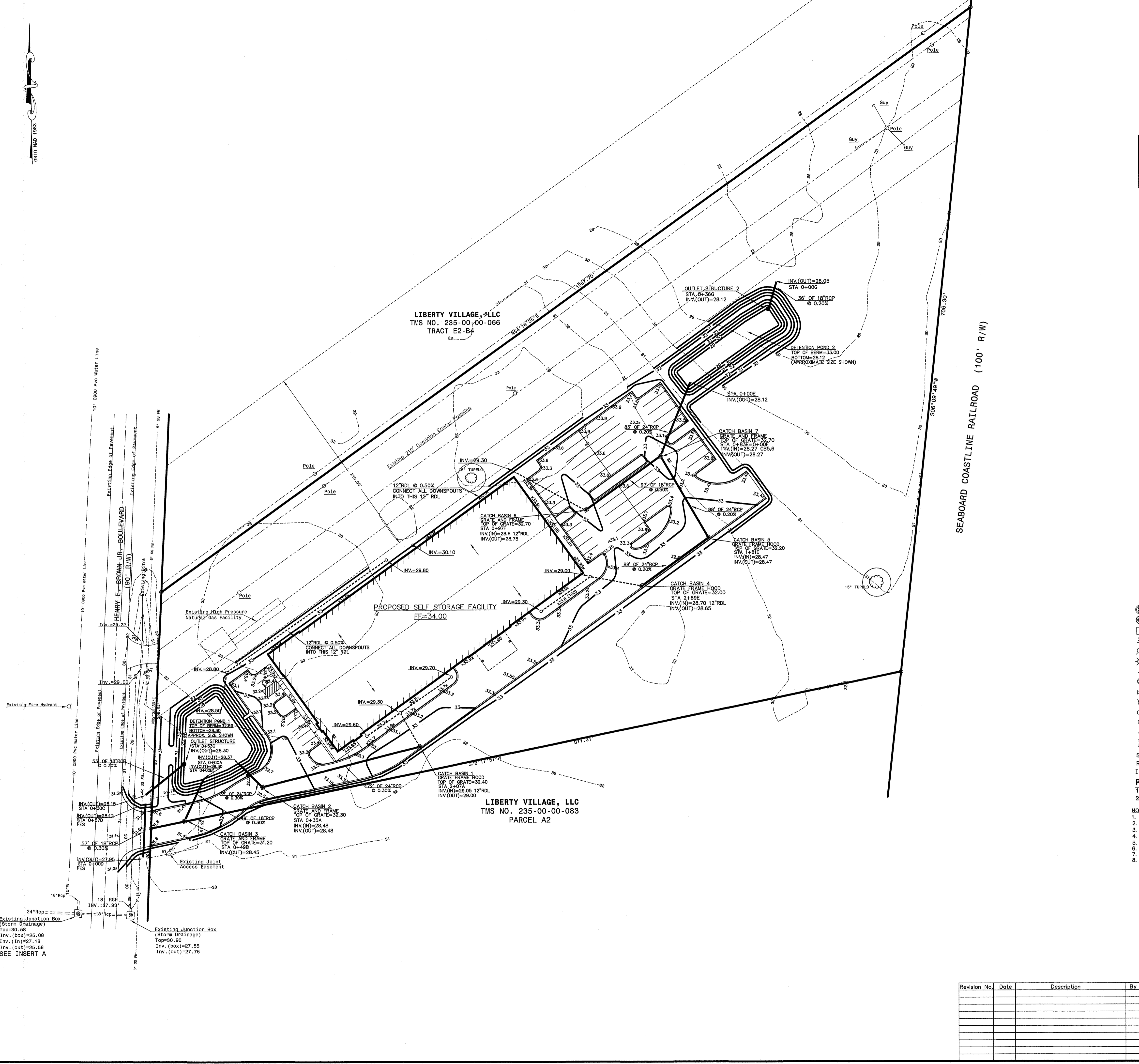
DATE: February 1, 2020 Scale: 1" = 50'

McCORMICK and ASSOCIATES OF S.C., INC. CIVIL ENGINEERS 1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464 (843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net



DRB SUBMITAL PROFESSIONAL ENGINEER No. 19486

Table with columns: Revision No., Date, Description, By.



SEE SWPPP SHEETS FOR NOTES, DETAILS, SPECIFICS, INSTRUCTIONS, ETC.

TOTAL SITE DISTURBED AREA = 3.1 ACRES

- EROSION AND SEDIMENT CONTROL NOTES:**  
(SEE SWPPP SHEETS FOR NOTES, DETAILS, ETC.)
- IF NECESSARY, SLOPES WHICH EXCEED EIGHT VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
  - 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 14 DAYS AFTER WORK HAS CEASED, EXCEPT AS NOTED BELOW.
  - WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY 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.
  - 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 PERMITEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
  - PROVIDE SILT FENCING 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, FULL COVER AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
  - 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 OPPOSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND SITE IS STABILIZED.
  - THE CONTRACTOR SHALL TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS AND GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.
  - RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING LOT CONSTRUCTION OR PROVIDE AN INDIVIDUAL PLAN MEETING SECTION 6.7.2-300 AND SC010000.
  - TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM OVERFLOW AND TO DIVERSIFY SEWER LINES WATER TO APPROPRIATE TRAYS OR STABLE OUTLETS.
  - ALL WATERS OF THE STATES (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A 10 FOOT BUFFER SHALL BE INSTALLED TO BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10 FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
  - LITTER CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
  - A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR NEAREST LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
  - INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
  - MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
  - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS SHALL BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
  - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DOWNSPOILING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.)
  - THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
    - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
    - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
    - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
  - 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.
  - IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION OF 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.
  - 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.

**CONSTRUCTION OF EVENTS**

- OBTAIN ALL WRITTEN APPROVALS AND PERMITS.
- FLAG TREE BARRICADES AND SILT FENCING SHOWN ON THIS PLAN.
- HOLD PRE-CON AT LEAST ONE WEEK PRIOR TO BEGINNING. INVITE CITY INSPECTOR. CALL FOR CITY REQUIRED BARRICADE AND SILT FENCING INSPECTION.
- INSTALL CONSTRUCTION ACCESS PER SWPPP PLAN. STABILIZE BARE AREAS IMMEDIATELY.
- INSTALL PERMETER EROSION CONTROLS AND TREE PROTECTION AND SILT FENCING AS SHOWN ON SWPPP PLAN.
- APPLY TEMPORARY SEEDING TO THE DISTURBED AREAS.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SWPPP PLAN.
- BEGIN CLEARING AND GRADING AREAS NECESSARY FOR INSTALLATION OF SEDIMENT CONTROLS - SEE SWPPP PLAN FOR MEASURES.
- CONSTRUCTION OF ALL REMAINING EROSION CONTROL MEASURES.
- BEGIN SITE GRADING. INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.
- INSTALL DRAINAGE & UTILITY LINES. INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.
- CONSTRUCT CURBING AND PAVING. INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.
- CONSTRUCT BUILDING.
- LANDSCAPE/STABILIZE DISTURBED AREAS.
- REMOVE EROSION CONTROL ONCE STABILIZATION IS ACHIEVED. CALL FOR FINAL CITY OF GOOSE CREEK INSPECTION.
- PERMANENT MAINTENANCE COVENANTS AND AS-BUILT DRAWINGS FOR STORMWATER FACILITIES IN ACCORDANCE WITH BERKELEY COUNTY MS4 SPECIFICATIONS TO BE SUBMITTED AND ACCEPTED PRIOR TO NOTICE OF TERMINATION (NOT).
- FILE NOTICE OF TERMINATION (NOT) PER CONDITIONS OF PERMIT.

**SURVEY NOTES**

- PROPERTY IS LOCATED IN FLOOD ZONE 'X' ACCORDING TO F.E.M.A. F.I.R.M. PANEL 45015C 0595 E & 0615 E DATED DECEMBER 7, 2018.
- PROPERTY IS ZONED GOOSE CREEK PD.
- THE PUBLIC RECORDS REFERENCED ON THIS PLAN ARE ONLY THOSE USED FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY, AND DO NOT CONSTITUTE A TITLE SEARCH.
- HORIZONTAL DATUM IS BASED ON NAD 1983.
- VERTICAL ELEVATIONS ARE BASED ON 1988 NAVD DATUM.
- T.M.S. # 235-00-00-065 CONTAINS 8.64 ACRES, OR 376,480.97 SQ. FT. THE AREA WAS DETERMINED BY THE COORDINATE METHOD.
- THE OWNER OF THIS PROPERTY IS HENTY BROWN SELF STORAGE LLC.
- ANYTHING SHOWN OUTSIDE THE DEFINED PROJECT AREA OF THE SURVEYED PROPERTY IS FOR DESCRIPTIVE PURPOSES ONLY.
- WATER PROVIDED BY TOWN OF GOOSE CREEK.
- SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

**SWPPP LEGEND**

INLET PROTECTION AND TYPE SHOWN AS A.D.

SILT FENCING SHOWN AS

DISTURBANCE LIMITS (TOTAL DA = 3.1 ACRES)  DA  DA

CONCRETE WASHOUT CW

SEDIMENT TUBE

**SURVEY LEGEND**

⊙ SSMH-SANITARY SEWER MH

⊙ UNDERGROUND GAS LINE

⊙ BELL SOUTH UG COMMUNICATIONS

⊙ BELL SOUTH PHONE PEDESTAL

⊙ P/P (POWER POLE) - DOMINION

⊙ L/P-LIGHT POLE

⊙ GUY WIRE

⊙ WM-WATER METER

⊙ WV-WATER VALVE

⊙ FH (FIRE HYDRANT)

⊙ OHP OVERHEAD POWER

⊙ 3/4" REBARS

⊙ FIBER OPTIC (FO) BOX

⊙ J.B.-JUNCTION BOX

⊙ SMH SEWER MANHOLE

⊙ RCP REINFORCED CONCRETE PIPE

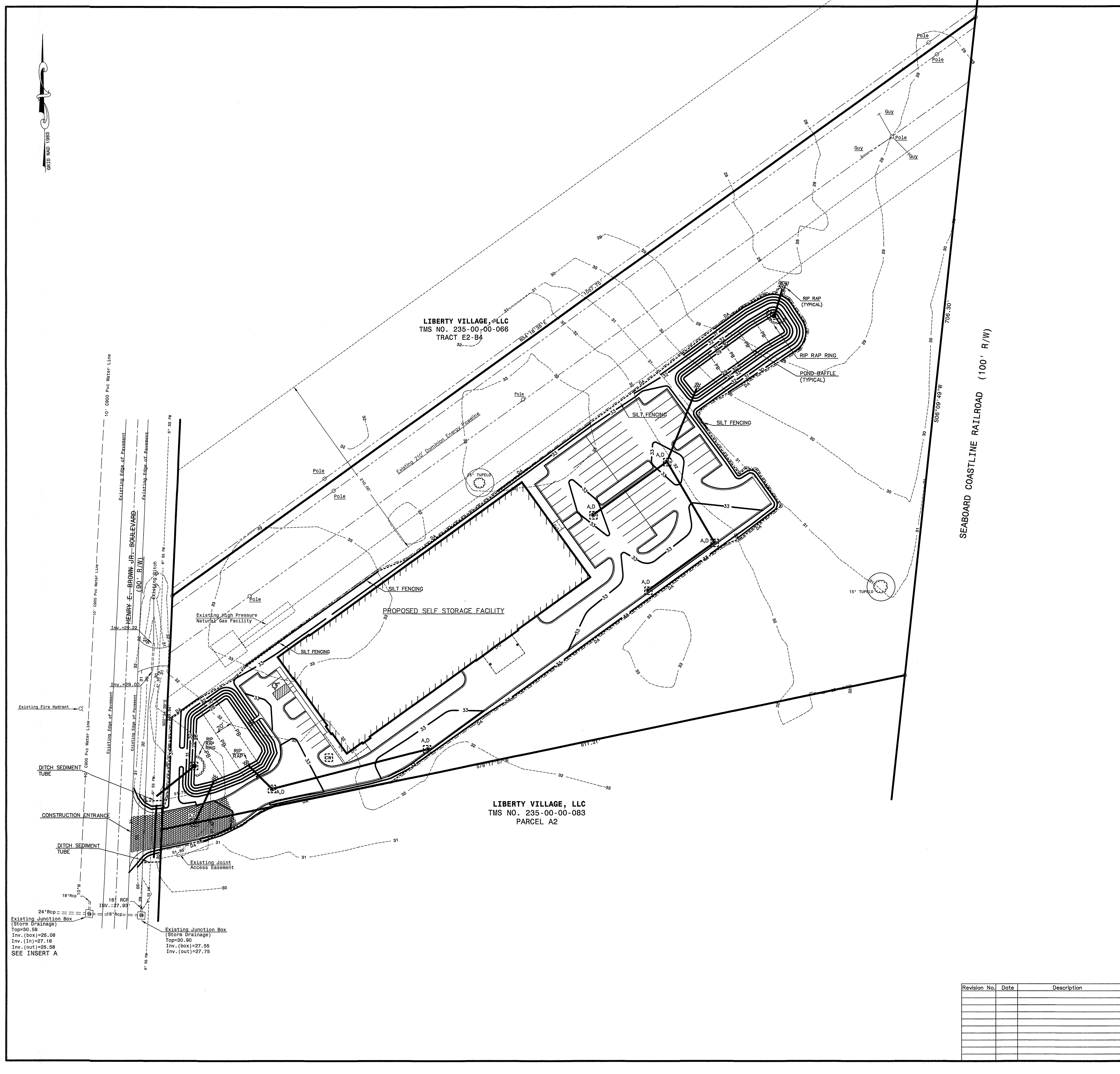
I.E. INVERT ELEVATION

**PLAT REFERENCES**

- PLAT BOOK N PAGE 344H..
- PLAT BOOK S PAGE 363I.

**NOTES:**

- THE TOTAL AREA OF SITE IS 8.65 ACRES AND IS ZONED PUD - GC.
- SITE IS IDENTIFIED AS PARCEL A1 AND IS IDENTIFIED AS TMS 235-00-00-065.
- BOUNDARY AND TOPOGRAPHICAL SURVEYING BY NIELSON AND ASSOCIATES, INC.
- THE PROPOSED DEVELOPMENT IS A SELF STORAGE FACILITY.
- THE SITE IS PRESENTLY VACANT.
- ALL DIMENSIONS ARE TO THE FACE OF ASPHALT UNLESS OTHERWISE NOTED.
- REFER TO PARKING SUMMARY FOR STALL SIZES AND COUNT.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.



Revision No.	Date	Description	By

**SWPPP**  
PREPARED FOR

**BRICKHOPE SELF STORAGE**

CITY OF GOOSE CREEK, SOUTH CAROLINA

DATE: February 1, 2020      Scale: 1" = 50'

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS

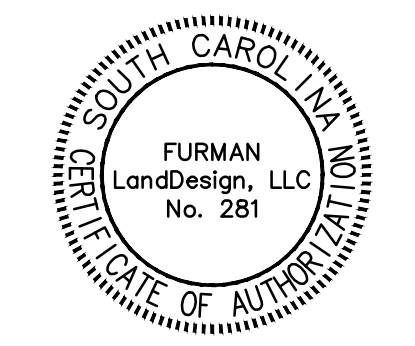
1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

Project No: 571      Drawing No. 45 of 111

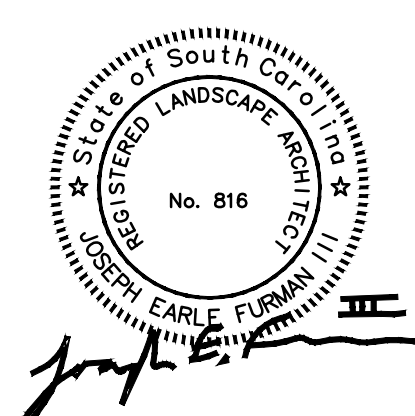
**SOUTH CAROLINA**  
Professional Engineer  
McCormick and Associates of S.C., Inc.  
No. CC2217

**SOUTH CAROLINA**  
Professional Engineer  
McCormick and Associates of S.C., Inc.  
No. 19486

**DRB SUBMITAL**  
PROFESSIONAL ENGINEER  
NO. 19486

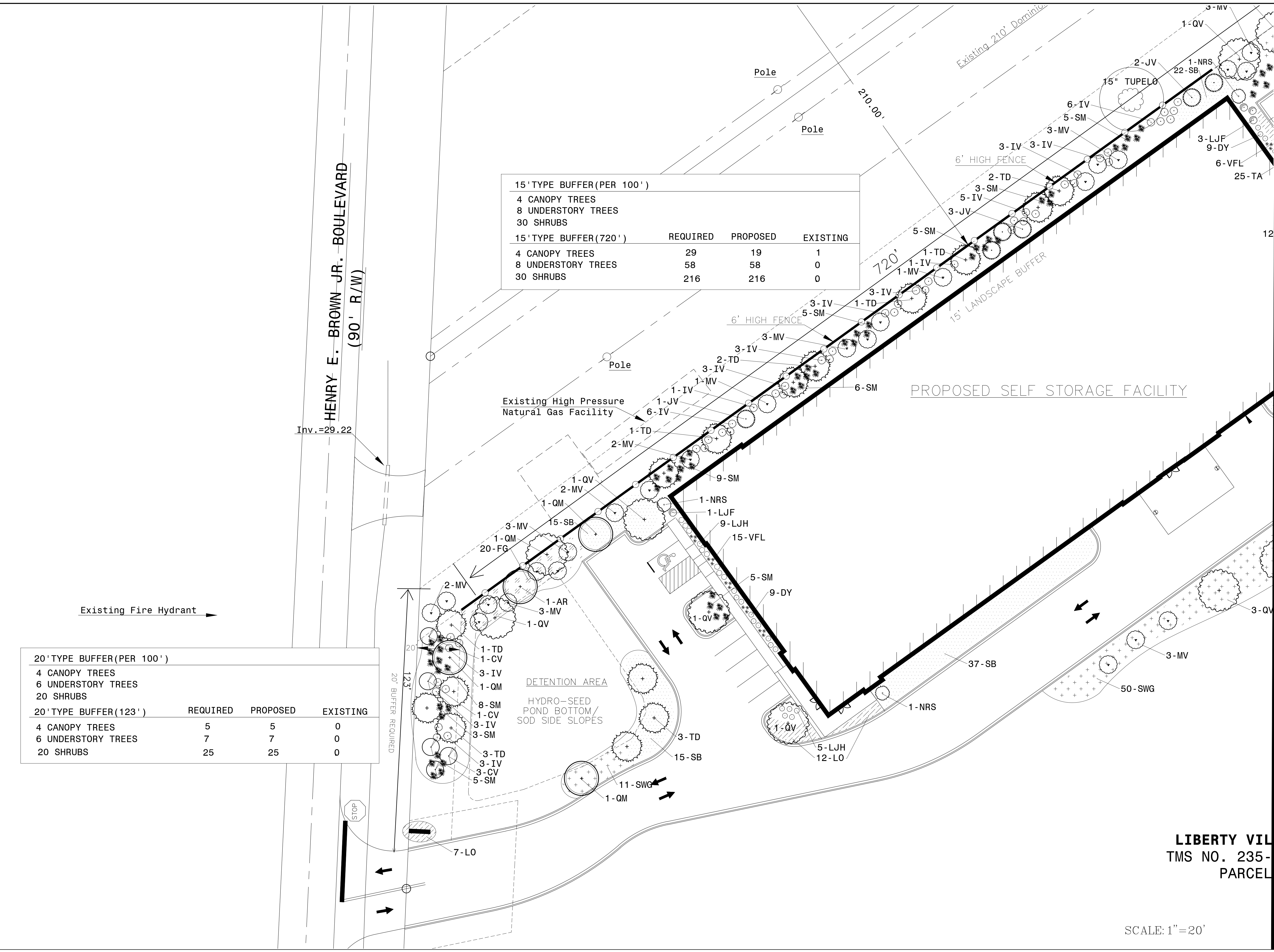


BRICKHOPE SELF STORAGE  
 HENRY E. BROWN BLVD.  
 GOOSE CREEK S.C.



Revision: \_\_\_\_\_ Date: 2/3/20  
 \_\_\_\_\_  
 \_\_\_\_\_

PRELIMINARY LANDSCAPE  
 L1



15' TYPE BUFFER (PER 100')

4 CANOPY TREES			
8 UNDERSTORY TREES			
30 SHRUBS			
15' TYPE BUFFER (720')	REQUIRED	PROPOSED	EXISTING
4 CANOPY TREES	29	19	1
8 UNDERSTORY TREES	58	58	0
30 SHRUBS	216	216	0

20' TYPE BUFFER (PER 100')

4 CANOPY TREES			
6 UNDERSTORY TREES			
20 SHRUBS			
20' TYPE BUFFER (123')	REQUIRED	PROPOSED	EXISTING
4 CANOPY TREES	5	5	0
6 UNDERSTORY TREES	7	7	0
20 SHRUBS	25	25	0

SCALE: 1" = 20'

LIBERTY VIL  
 TMS NO. 235-  
 PARCEL

HENRY E. BROWN JR. BOULEVARD  
(90' R/W)

Inv. = 29.22

15' TYPE BUFFER (PER 100')			
4 CANOPY TREES			
8 UNDERSTORY TREES			
30 SHRUBS			
15' TYPE BUFFER (720')			
4 CANOPY TREES	29	19	1
8 UNDERSTORY TREES	58	58	0
30 SHRUBS	216	216	0

20' TYPE BUFFER (PER 100')			
4 CANOPY TREES			
6 UNDERSTORY TREES			
20 SHRUBS			
20' TYPE BUFFER (123')			
4 CANOPY TREES	5	5	0
6 UNDERSTORY TREES	7	7	0
20 SHRUBS	25	25	0



BRICKHOPE SELF STORAGE  
HENRY E. BROWN BLVD.  
GOOSE CREEK S.C.



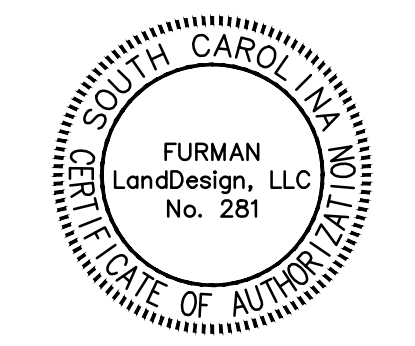
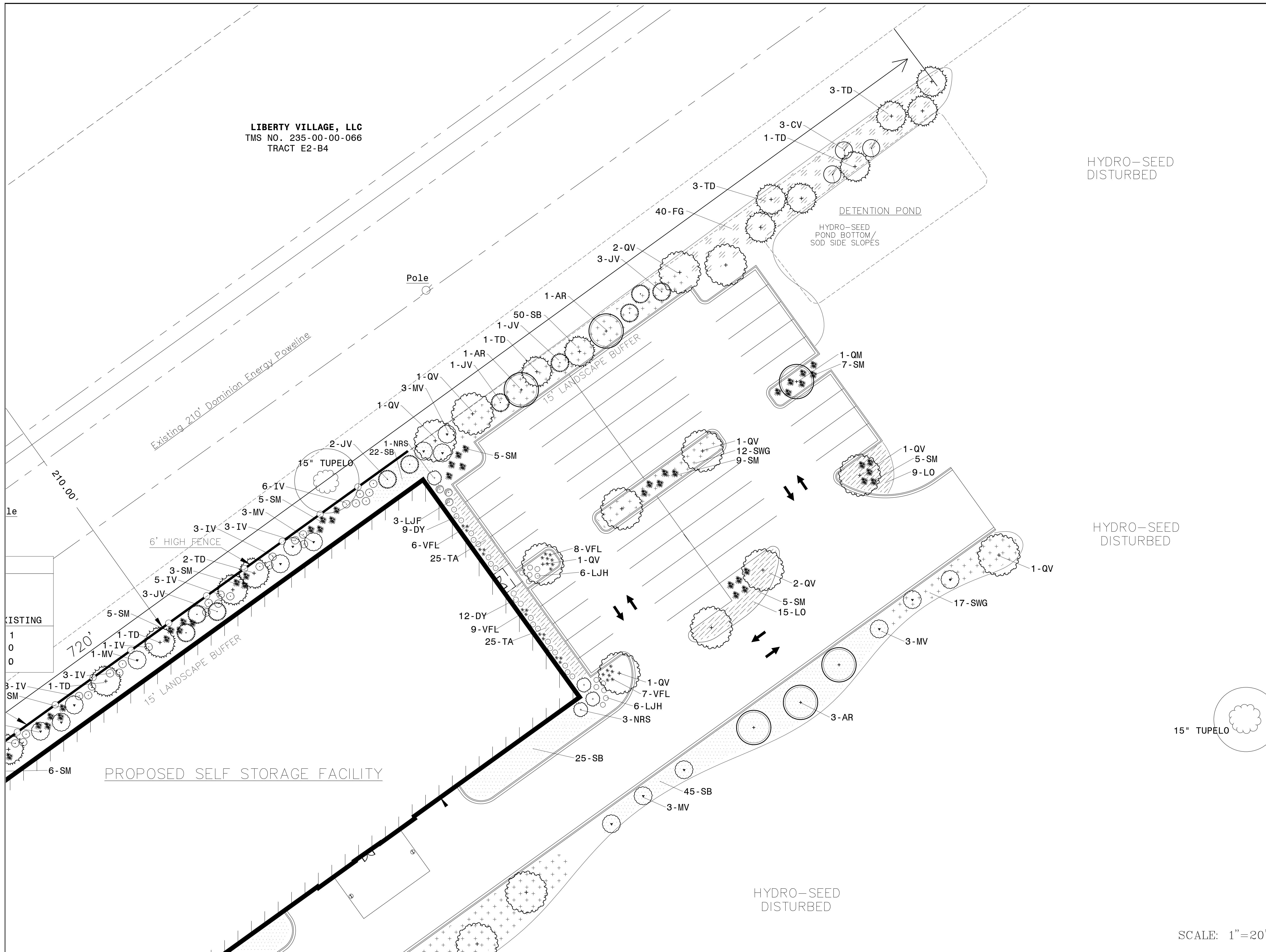
Revision: \_\_\_\_\_ Date: 2/3/20

PRELIMINARY LANDSCAPE

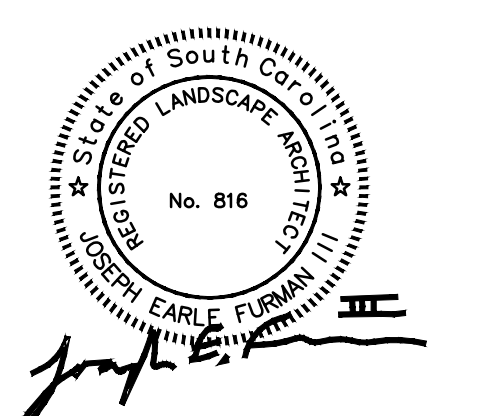


SCALE: 1"=16'

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-066  
TRACT E2-B4



BRICKHOPE SELF STORAGE  
HENRY E. BROWN BLVD.  
GOOSE CREEK S.C.



Revision:	Date:
.	2/3/20
.	
.	
.	

PRELIMINARY  
LANDSCAPE  
L2

SCALE: 1"=20'



LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-066  
TRACT E2-B4



BRICKHOPE SELF STORAGE  
HENRY E. BROWN BLVD.  
GOOSE CREEK S.C.

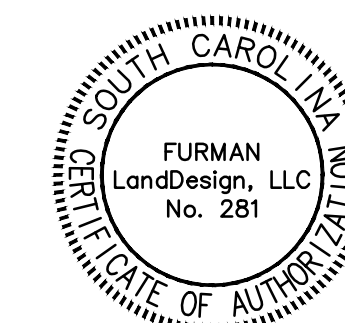


Revision: \_\_\_\_\_ Date: 2/3/20

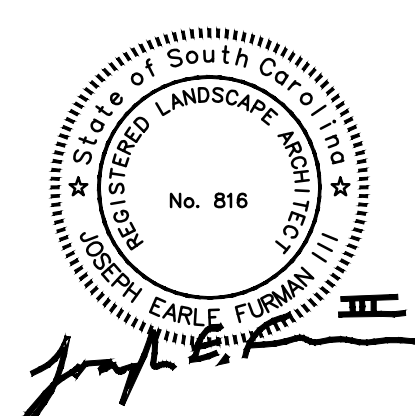
PRELIMINARY  
LANDSCAPE

L2

SCALE: 1"=15'



BRICKHOPE SELF STORAGE  
HENRY E. BROWN BLVD.  
GOOSE CREEK S.C.



Revision: \_\_\_\_\_ Date: \_\_\_\_\_  
2/3/20

PLANT SCHEDULE/  
DETAILS  
L3

TOPSOIL  
SPREAD EVENLY 2" TOPSOIL AT ALL NEWLY PLANTED AREAS.  
MULCH 3" SHREDDED HARDWOOD MULCH/DARK BROWN  
LAWN BERMUDA SOD

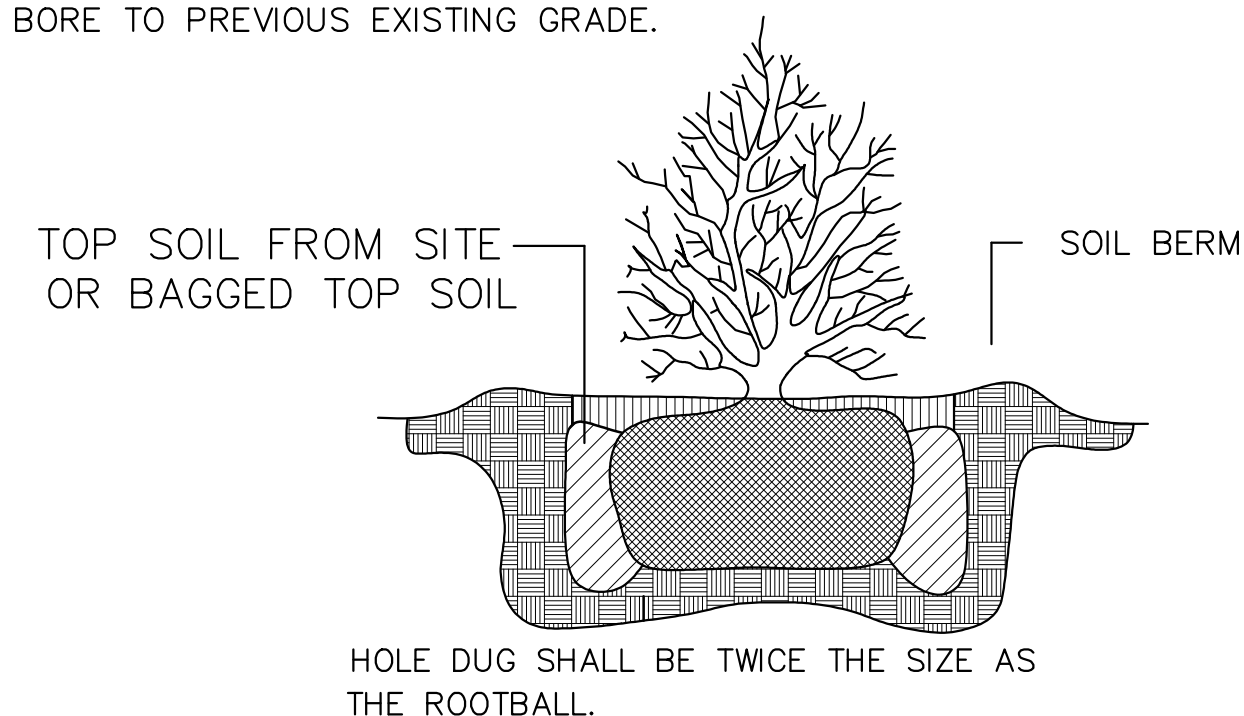
NOTE: CONTRACTOR TO VERIFY COUNTS FROM ACTUAL PLAN.

PLANT SCHEDULE				
CODE	TREES	COMMON NAME	HEIGHT/SIZE	QUANTITY
TD	LIGUSTRUM TREE FORM(SPECIMEN)	FROM PELICANS ROOST NURSERY	6'-7'	
QV	QUERCUS VIRGINIANA	LIVE OAK	2.5" CALIPER	
QM	QUERCUS PHELLOS	WILLOW OAK	2.5" CALIPER	
AR	SABAL PALMETTO	SABAL PALMETTO	12' HT	
UNDERSTORY TREES				
JV	JUNIPERUS VIRGINIANA	RED CEDAR	6' HT	
MV	SPARTINA BAKERI	SPARTINA GRASS	6' HT	
CV	CHIONANTHUS VIRGINICUS	FRINGE TREE	6' HT	
SHRUBS				
SWG	SWEET MUHLY GRASS	SWEET GRASS	3 GAL.	
SB	SPARTINA BAKERI	SPARTINA GRASS	3 GAL.	
LO	LOMANDRA	BREEZE GRASS	1 GAL.	
IV	ILEX VOMITORIA	YAUPON HOLLY	3 GAL.	
FG	FAKAHATCHIE GRASS	FAKAHATCHIE GRASS	3 GAL.	
DY	PODOCARPUS 'PRINGLES'	DWF. PRINGLE YEW	3 GAL.	
SM	SABAL MINOR	DWF. PALMETTO	3 GAL.	
VFL	VARIEGATED FLAX LILY	VAR. FLAX LILY	1 GAL.	
LJH	LORAPETALUM 'JAZZ HANDS'	JAZZ HANDS LORAPETALUM	3 GAL.	
MC	MERICA CERIFERA	WAX MYRTLE	7 GAL.	
LJF	LIGUSTRUM JACK FROST	JACK FROST LIGUSTRUM	7 GAL.	

**IRRIGATION NOTES**

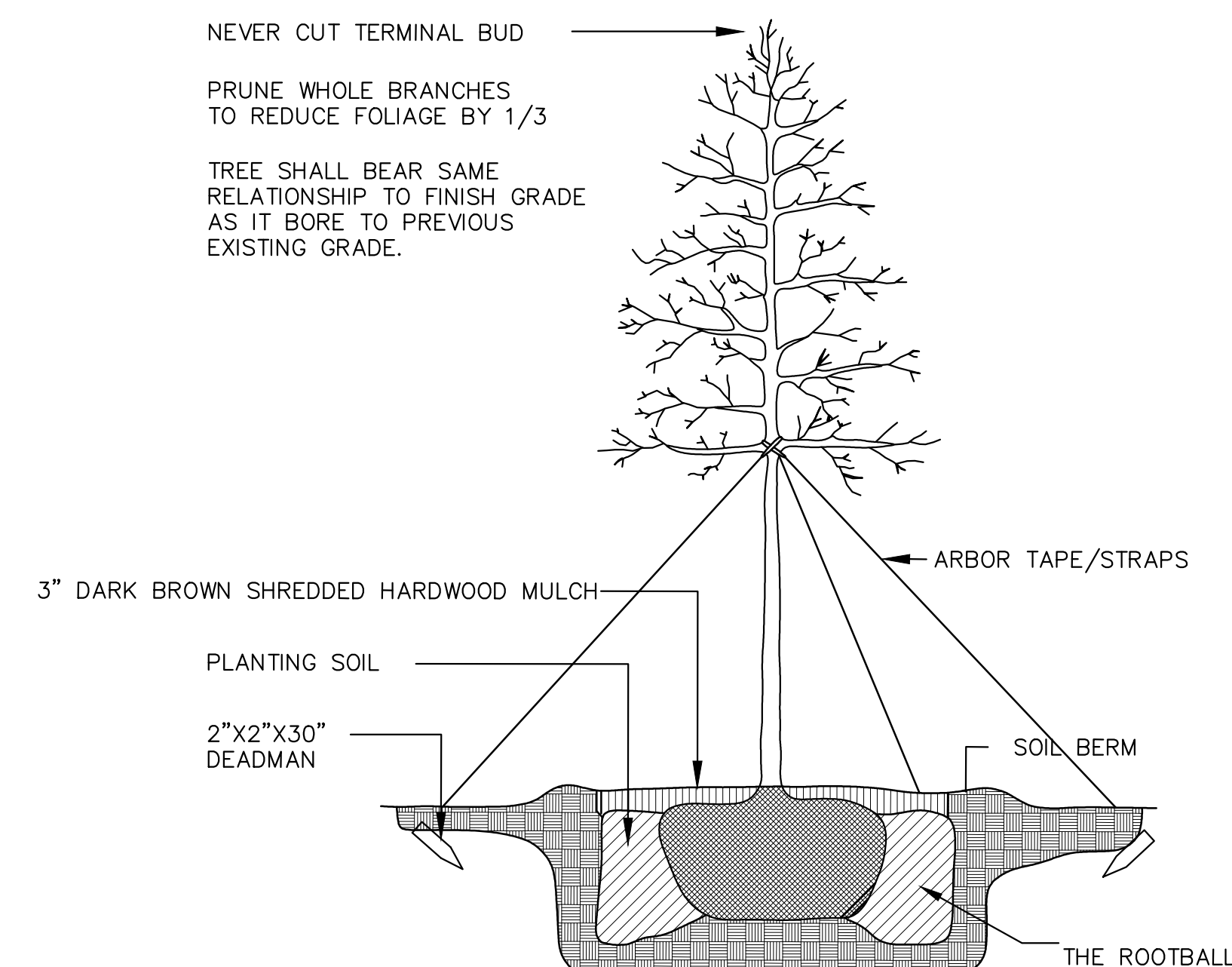
1. THE CONTRACTOR IS ADVISED TO VISIT THE SITE AND VERIFY FIELD CONDITIONS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES.
3. THE CONTRACTOR SHALL OBTAIN ALL LICENSES AND PERMITS REQUIRED FOR THE PERFORMANCE OF HIS WORK.
4. ALL PLANTED AREAS SHALL BE IRRIGATED BY AN AUTOMATIC LANDSCAPE IRRIGATION SYSTEM. SYSTEM SHALL BE DESIGNED BY IRRIGATION CONTRACTOR. CONTRACTOR SHALL VERIFY AMOUNT OF WATER METERS NEEDED ON-SITE FOR APPROVAL.
5. LANDSCAPE CONTRACTOR SHALL COORDINATE PIPING AND CONNECTION TO AN EX. OR NEW APPROVED WATER METERS.
6. PIPE SLEEVES SHALL BE INSTALLED BY IRRIGATION CONTRACTOR AS NECESSARY. COORDINATE WITH GENERAL CONTRACTOR.
7. IRRIGATION TIME CLOCK AND POWER SUPPLY LOCATION SHALL BE COORDINATED WITH OWNER.
8. EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT SITE. STAKE OUT BY CONTRACTOR AND FIELD ADJUSTMENT BY LANDSCAPE ARCHITECT ARE ABSOLUTELY NECESSARY.
9. IRRIGATION SYSTEM SHALL BE GUARANTEED BY CONTRACTOR FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY OWNER.
10. THE LOCATION OF ALL ABOVE GROUND AND BELOW GROUND UTILITIES IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. DAMAGE TO UTILITIES AND PERSONAL INJURY AS A RESULT OF THE FAILURE TO DETERMINE AND/OR RESPECT UTILITY LOCATIONS IS THE SOLE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. UTILITY LOCATIONS ARE NOT SHOWN ON THESE PLANS.

PLANT SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.



**DETAIL - SHRUB PLANTING**  
NO SCALE

NEVER CUT TERMINAL BUD  
PRUNE WHOLE BRANCHES TO REDUCE FOLIAGE BY 1/3  
TREE SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.



**DETAIL - TREE PLANTING**  
NO SCALE

**PLANT GUARANTEE**

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR NEW PLANT MATERIAL'S HEALTH UNTIL FINAL ACCEPTANCE BY OWNER. OWNER RESERVES THE RIGHT TO REJECT ANY DEAD OR DECLINING PLANT MATERIAL AT FINAL INSPECTION.

**CLEARING OF DEBRIS**

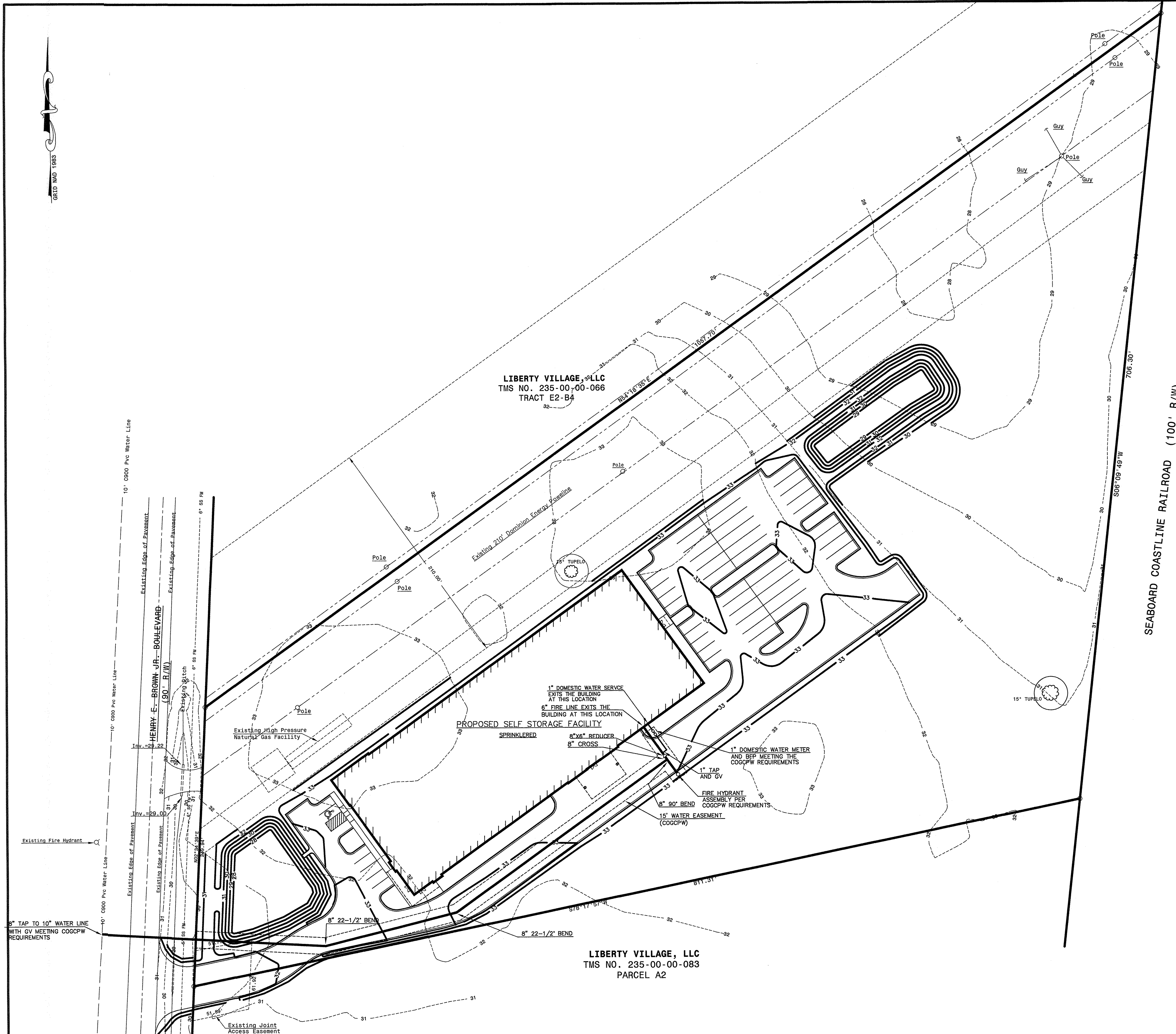
LANDSCAPE CONTRACTOR SHALL CLEAR ALL PROPOSED PLANTED AREAS OF ALL ROCKS AND DEBRIS BEFORE PLANTING.

**UNDERGROUND UTILITIES**

SEE CONSTRUCTION PLANS

SCALE: 1"=20'

GRID 1983



LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-068  
TRACT E2-B4

PROPOSED SELF STORAGE FACILITY

LIBERTY VILLAGE, LLC  
TMS NO. 235-00-00-063  
PARCEL A2

SEABOARD COASTLINE RAILROAD (100' R/W)

**SURVEY LEGEND**

- ⊗ SSMH-SANITARY SEWER MH
- ⊖ UNDERGROUND GAS LINE
- ⊕ BELLSOUTH UG COMMUNICATIONS
- ⊕ BELLSOUTH PHONE PEDESTAL
- ⊕ P/P (POWER POLE) - DOMINION
- ⊕ LP-LIGHT POLE
- ⊕ GUY WIRE
- ⊕ WM-WATER METER
- ⊕ WV-WATER VALVE
- ⊕ FH (FIRE HYDRANT)
- ⊕ OHP OVERHEAD POWER
- ⊕ 3/4" REBARS
- ⊕ FIBER OPTIC (FO) BOX
- ⊕ J.B.-JUNCTION BOX
- ⊕ SSMH SEWER MANHOLE
- ⊕ RCP REINFORCED CONCRETE PIPE
- ⊕ I.E. INVERT ELEVATION

**PLAT REFERENCES**

1. PLAT BOOK N PAGE 344H..
2. PLAT BOOK S PAGE 363I.

**NOTES:**

1. THE TOTAL AREA OF SITE IS 8.65 ACRES AND IS ZONED PUD - GC.
2. SITE IS IDENTIFIED AS PARCEL A1 AND IS IDENTIFIED AS TMS 235-00-00-065.
3. BOUNDARY AND TOPOGRAPHICAL SURVEYING BY NELSON AND ASSOCIATES, INC.
4. THE PROPOSED DEVELOPMENT IS A SELF STORAGE FACILITY.
5. THE SITE IS PRESENTLY VACANT.
6. ALL DIMENSIONS ARE TO THE FACE OF ASPHALT UNLESS OTHERWISE NOTED.
7. REFER TO PARKING SUMMARY FOR STALL SIZES AND COUNT.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**SURVEY NOTES**

1. PROPERTY IS LOCATED IN FLOOD ZONE 'X' ACCORDING TO F.E.M.A. F.I.R.M. PANEL 45015C 0595 E & 0615 E DATED DECEMBER 7, 2018.
2. PROPERTY IS ZONED GOOSE CREEK PD.
3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY, AND DO NOT CONSTITUTE A TITLE SEARCH.
4. HORIZONTAL DATUM IS BASED ON NAD 1983.
5. VERTICAL ELEVATIONS ARE BASED ON 1988 NAVD DATUM.
6. T.M.S. # 235-00-00-065 CONTAINS 8.64 ACRES, OR 376,480.97 SQ. FT. THE AREA WAS DETERMINED BY THE COORDINATE METHOD.
7. THE OWNER OF THIS PROPERTY IS HENTY BROWN SELF STORAGE LLC.
8. ANYTHING SHOWN OUTSIDE THE DEFINED PROJECT AREA OF THE SURVEYED PROPERTY IS FOR DESCRIPTIVE PURPOSES ONLY.
9. WATER PROVIDED BY TOWN OF GOOSE CREEK.
10. SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

Existing Junction Box (Storm Drainage)  
Top=30.58  
Inv. (in)=27.18  
Inv. (box)=26.08  
Inv. (out)=25.58  
SEE INSERT A

Existing Junction Box (Storm Drainage)  
Top=30.90  
Inv. (box)=27.55  
Inv. (out)=27.75

**WATER PLAN**  
PREPARED FOR  
**BRICKHOPE SELF STORAGE**

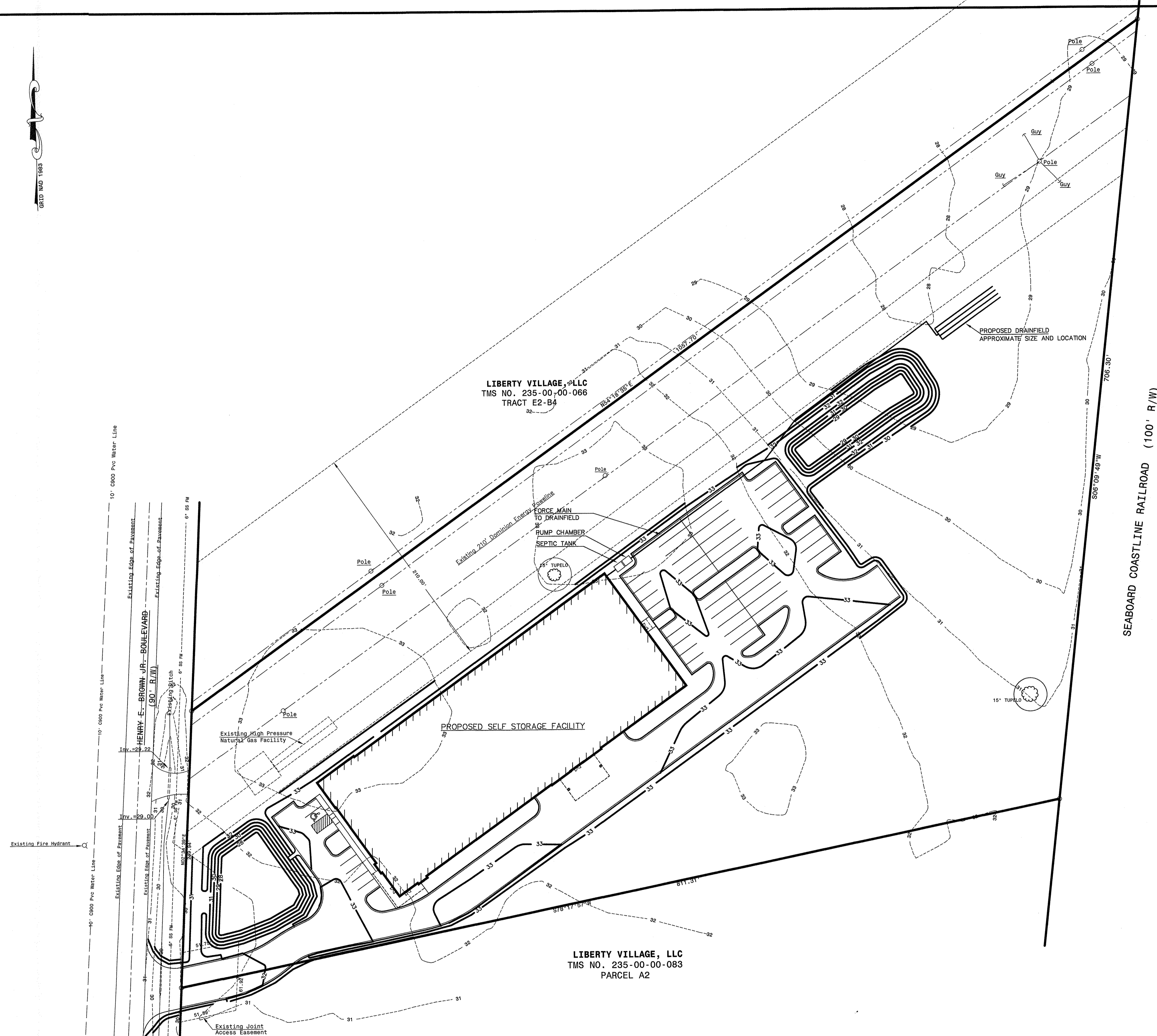
CITY OF GOOSE CREEK, SOUTH CAROLINA  
DATE: February 1, 2020  
Scale: 1" = 50'

Revision No.	Date	Description	By

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS  
1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net  
Project No: 571  
Drawing No. 06 of 011

**SOUTH CAROLINA**  
Professional Engineer  
McCormick and Associates of S.C., Inc.  
No. CO2217  
MICHAEL T. MCCORMICK  
NO. 19486  
**DRB SUBMITAL**  
PROFESSIONAL ENGINEER  
NO. 19486

DATE: NOV 1983



**SURVEY LEGEND**

- ⊙ SSMM-SANITARY SEWER MH
  - ⊙ UNDERGROUND GAS LINE
  - ⊙ BELLSOUTH UG COMMUNICATIONS
  - ⊙ BELLSOUTH PHONE PEDESTAL
  - ⊙ P/P (POWER POLE) - DOMINION
  - ⊙ LP-LIGHT POLE
  - ⊙ GUY WIRE
  - ⊙ WM-WATER METER
  - ⊙ WV-WATER VALVE
  - ⊙ FH (FIRE HYDRANT)
  - ⊙ OHP OVERHEAD POWER
  - ⊙ 3/4" REBARS
  - ⊙ FIBER OPTIC (FO) BOX
  - ⊙ J.B.-JUNCTION BOX
  - SMH SEWER MANHOLE
  - RCP REINFORCED CONCRETE PIPE
  - I.E. INVERT ELEVATION
- PLAT REFERENCES**
1. PLAT BOOK N PAGE 344H..
  2. PLAT BOOK S PAGE 363I.

**SURVEY NOTES**

1. PROPERTY IS LOCATED IN FLOOD ZONE 'X' ACCORDING TO F.E.M.A. F.I.R.M. PANEL 45015C 0595 E & 0615 E DATED DECEMBER 7, 2018.
2. PROPERTY IS ZONED GOOSE CREEK PD.
3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY, AND DO NOT CONSTITUTE A TITLE SEARCH.
4. HORIZONTAL DATUM IS BASED ON NAD 1983.
5. VERTICAL ELEVATIONS ARE BASED ON 1988 NAVD DATUM.
6. T.M.S. # 235-00-00-065 CONTAINS 8.64 ACRES, OR 376,480.97 SQ. FT. THE AREA WAS DETERMINED BY THE COORDINATE METHOD.
7. THE OWNER OF THIS PROPERTY IS HENTY BROWN SELF STORAGE LLC.
8. ANYTHING SHOWN OUTSIDE THE DEFINED PROJECT AREA OF THE SURVEYED PROPERTY IS FOR DESCRIPTIVE PURPOSES ONLY.
9. WATER PROVIDED BY TOWN OF GOOSE CREEK.
10. SEWER SERVICES PROVIDED BY BERKELEY COUNTY WATER & SEWER.

**NOTES:**

1. THE TOTAL AREA OF SITE IS 8.65 ACRES AND IS ZONED PUD - GC.
2. SITE IS IDENTIFIED AS PARCEL A1 AND IS IDENTIFIED AS TMS 235-00-00-065.
3. BOUNDARY AND TOPOGRAPHICAL SURVEYING BY NIELSON AND ASSOCIATES, INC.
4. THE PROPOSED DEVELOPMENT IS A SELF STORAGE FACILITY.
5. THE SITE IS PRESENTLY VACANT.
6. ALL DIMENSIONS ARE TO THE FACE OF ASPHALT UNLESS OTHERWISE NOTED.
7. REFER TO PARKING SUMMARY FOR STALL SIZES AND COUNT.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**SANITARY SEWER LINE**

PREPARED FOR

## BRICKHOPE SELF STORAGE

CITY OF GOOSE CREEK, SOUTH CAROLINA

DATE: February 1, 2020

Scale: 1" = 50'

**McCORMICK and ASSOCIATES OF S.C., INC.**

CIVIL ENGINEERS

1250 Fairmont Avenue, Mt. Pleasant, Carolina - 29464  
 (843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

Project No: 571

Drawing No. 1 of 11



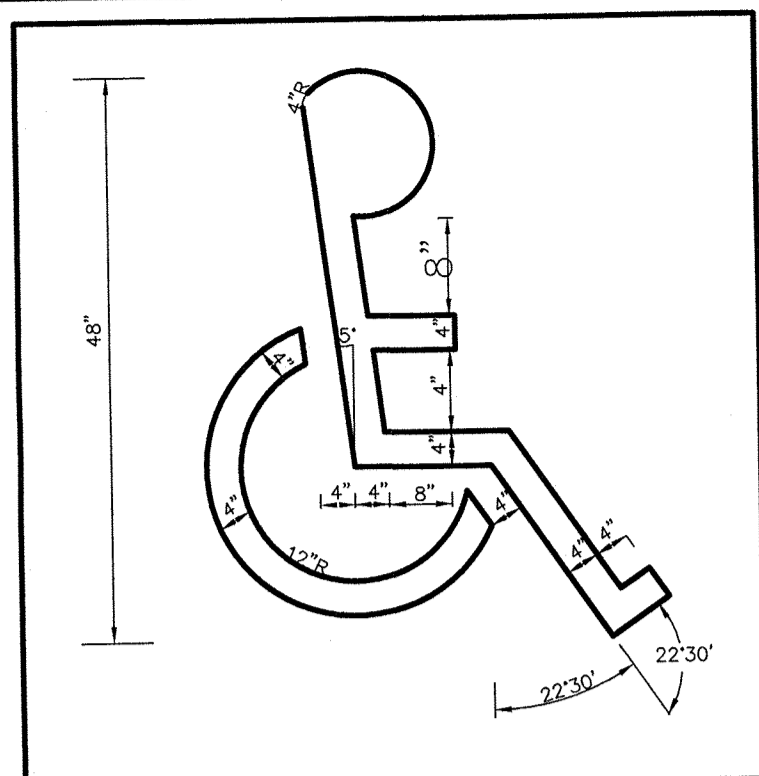
**DRB SUBMITAL**

PROFESSIONAL ENGINEER  
NO. 19486

Revision No.	Date	Description	By

Existing Junction Box (Storm Drainage)  
 Top=30.58  
 Inv. (box)=26.06  
 Inv. (in)=27.18  
 Inv. (out)=26.58  
 SEE INSERT A

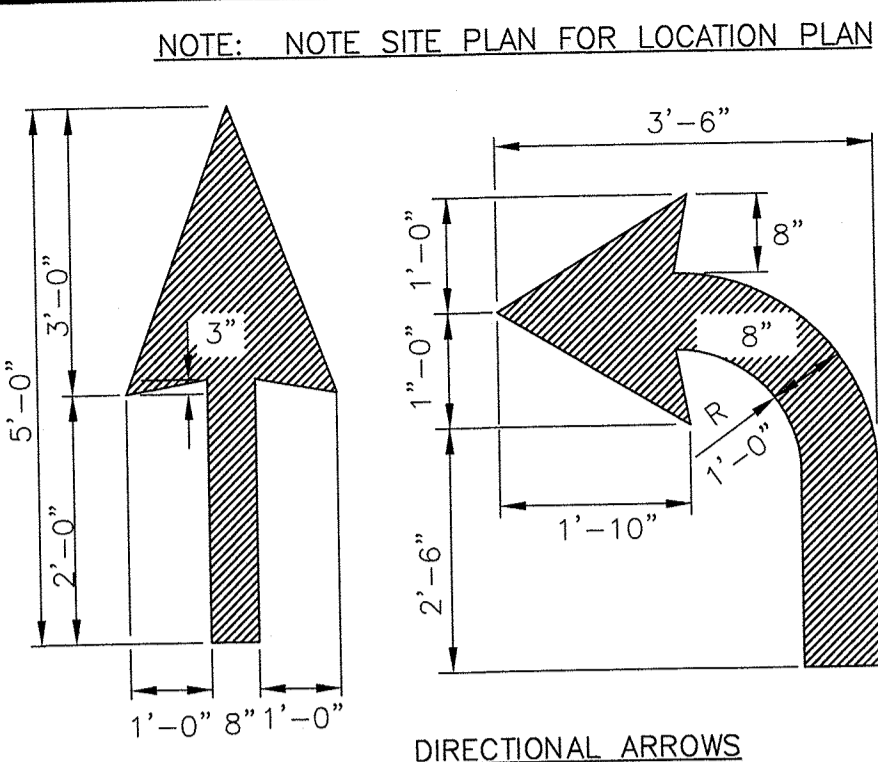
Existing Junction Box (Storm Drainage)  
 Top=30.90  
 Inv. (box)=27.65  
 Inv. (out)=27.75



**PAINTED ADA HANDICAP SYMBOL  
(PAINTED ON PAVEMENT)**  
NOT TO SCALE

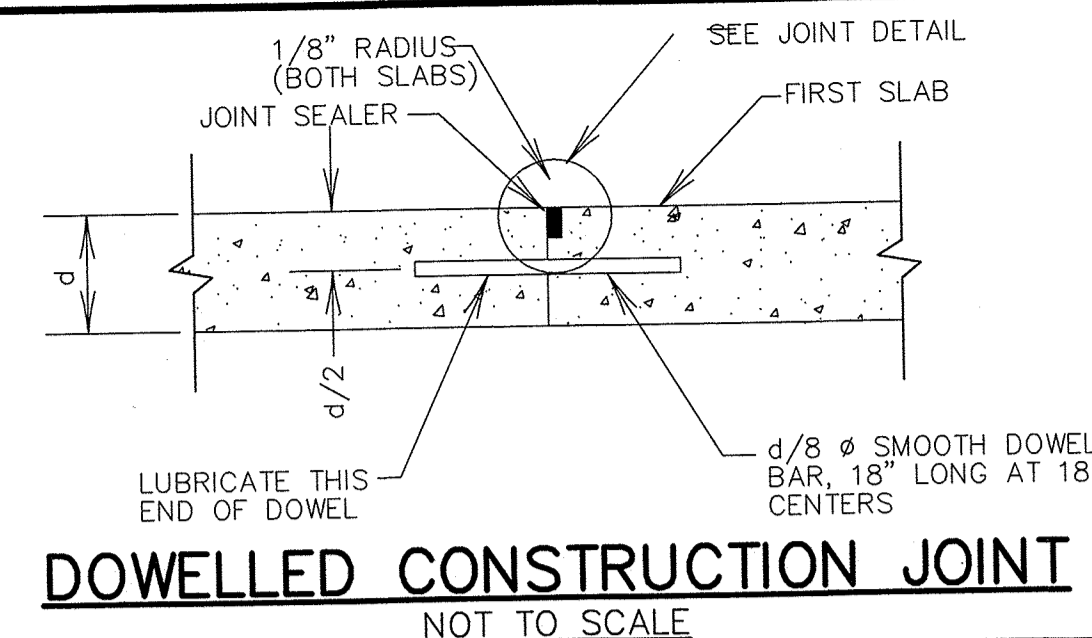
**PAINTING REQUIREMENTS:**

- HANDICAP SYMBOL SHALL BE PAINTED WHITE OR BLUE.
- PAINT SHALL BE TYPE 1 CONFORMING TO FEDERAL SPECIFICATIONS TT-P-115E. SEE SPECIFICATIONS FOR THIS PROJECT FOR ADDITIONAL INFORMATION.
- ALL PAVEMENT MARKINGS TO BE YELLOW UNLESS OTHERWISE DICTATED BY CODE.

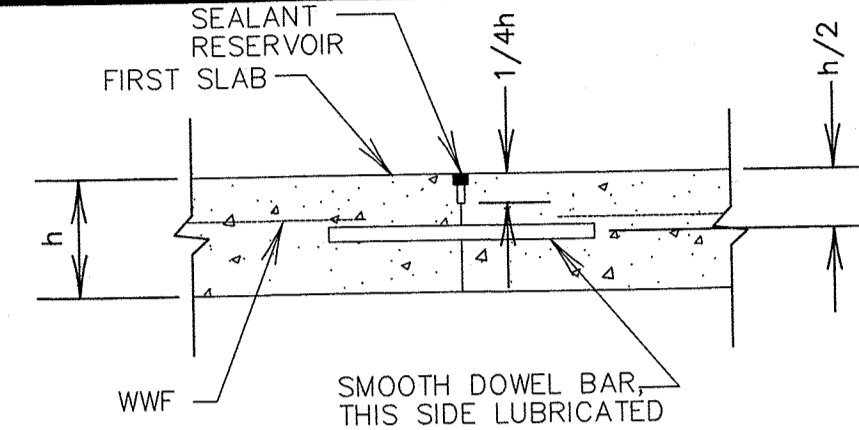


**TYPICAL PAVEMENT MARKINGS:**

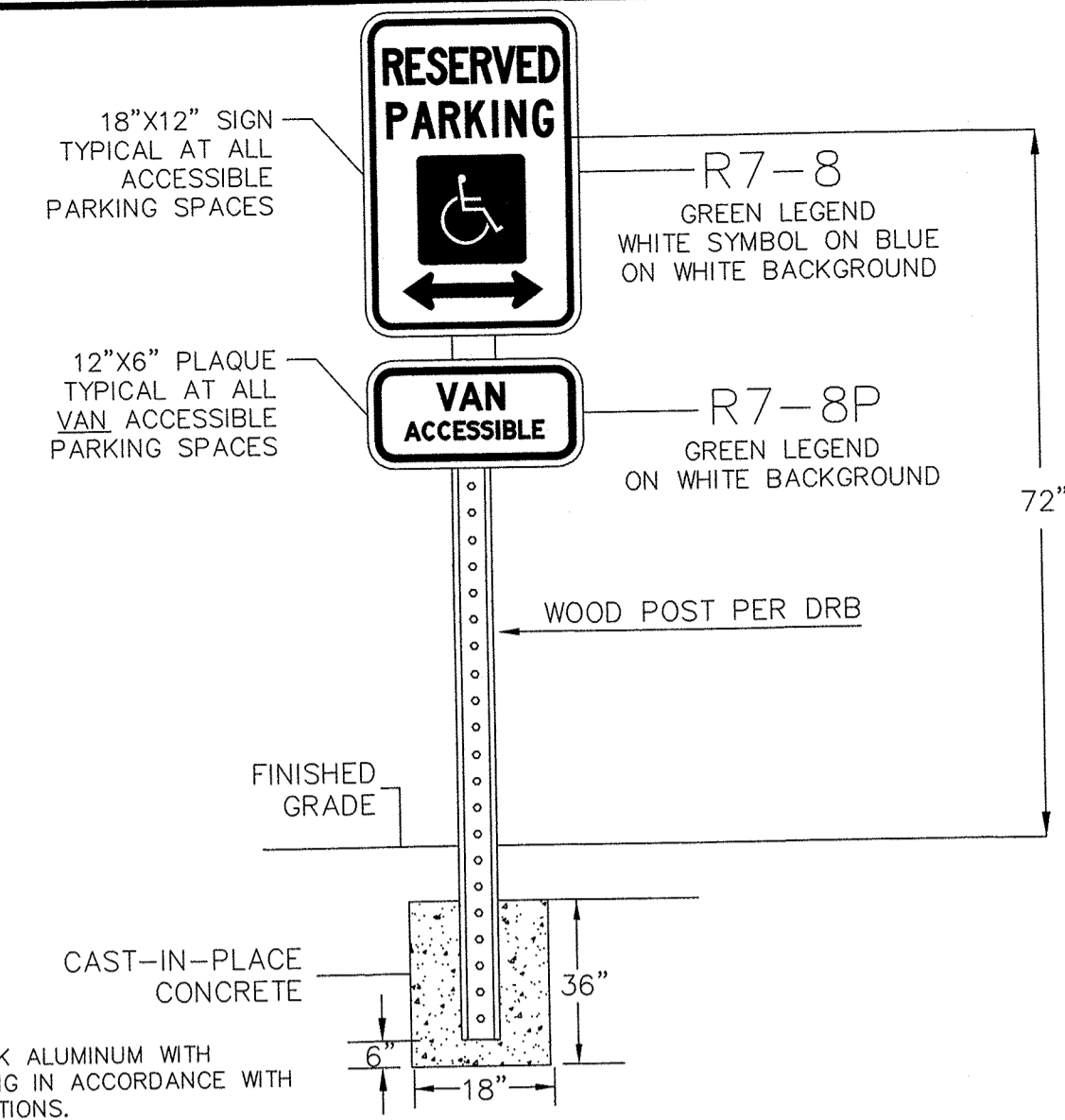
NOTE: NOTE SITE PLAN FOR LOCATION PLAN  
NOT TO SCALE  
MUTCD R3-6L  
NOTE: ALL MARKINGS SHALL BE WHITE THERMOPLASTIC PAINT  
1. MUST BE MUTCD COMPLIANT.  
2. MUTCD R3-6L.



**DOWELLED CONSTRUCTION JOINT**  
NOT TO SCALE

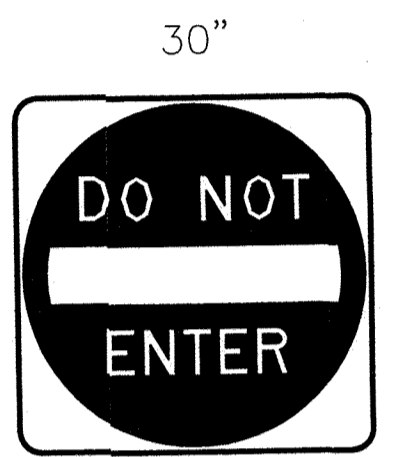


**CONTRACTION JOINT**  
NOT TO SCALE

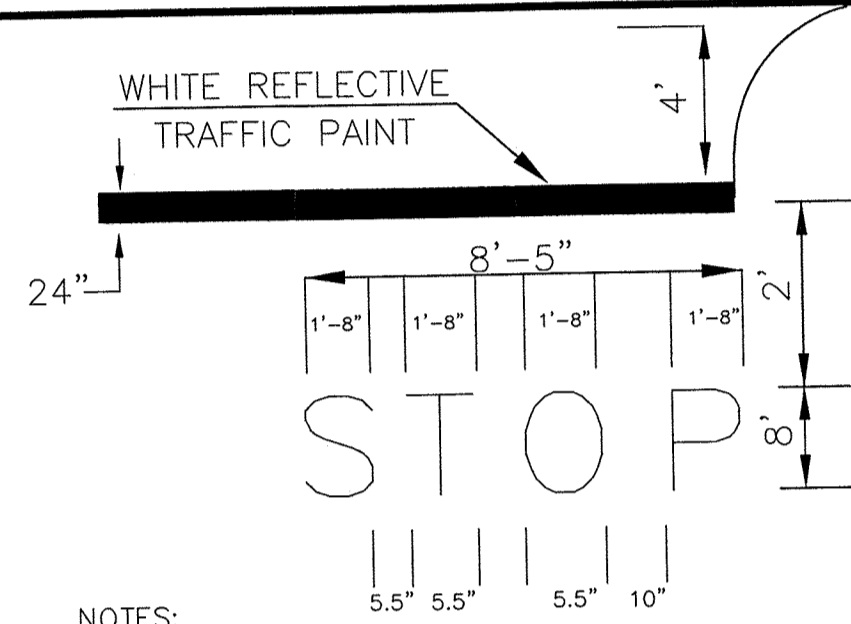


**ACCESSIBLE PARKING SIGN**

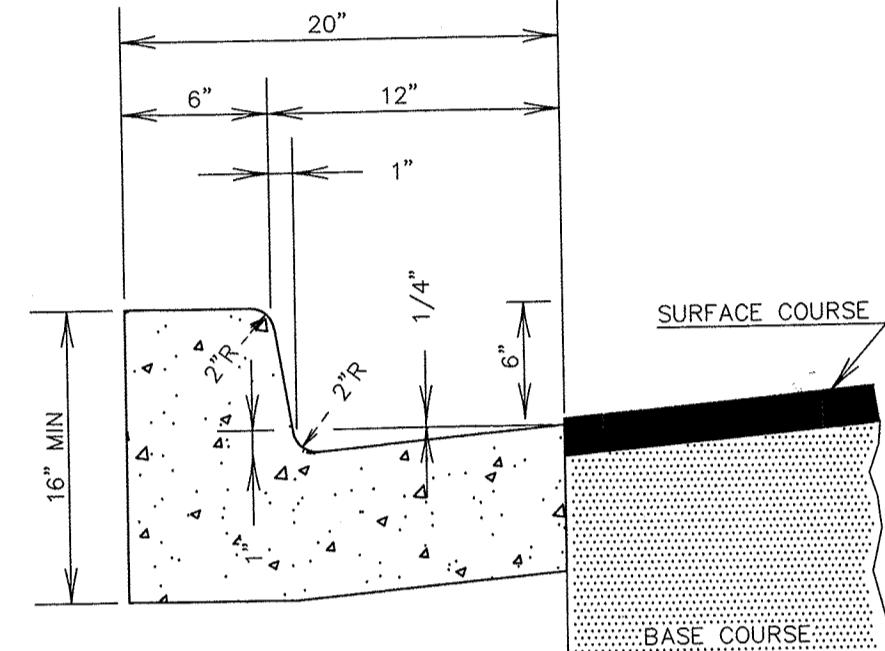
NOTES:  
1. SIGN SHALL BE 0.080\"/>



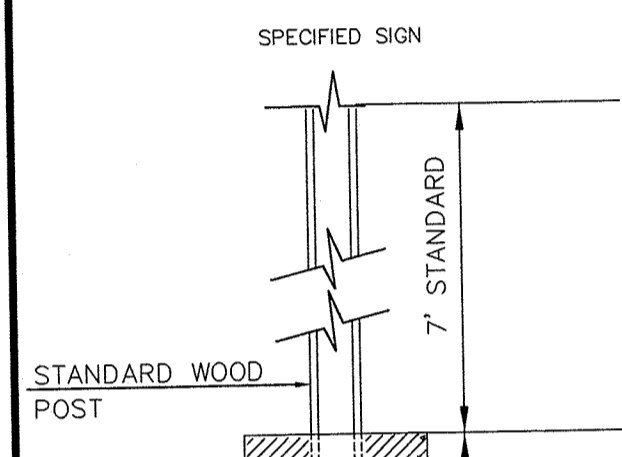
STANDARD RED AND WHITE SIGN  
R5-1  
**DO NOT ENTER SIGN**  
NOT TO SCALE



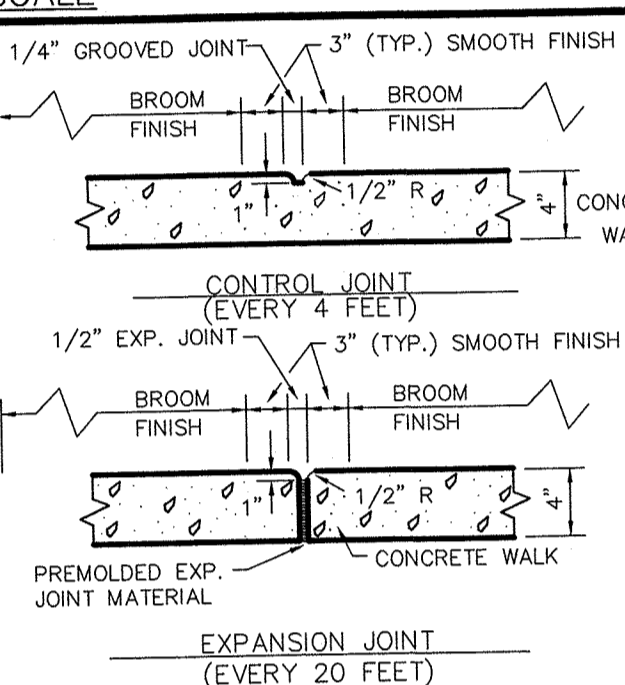
WHITE REFLECTIVE TRAFFIC PAINT  
NOTES:  
1. MARKINGS SHALL BE THERMOPLASTIC MEETING CITY OF GOOSE CREEK REQUIREMENTS.  
**24\"/>**



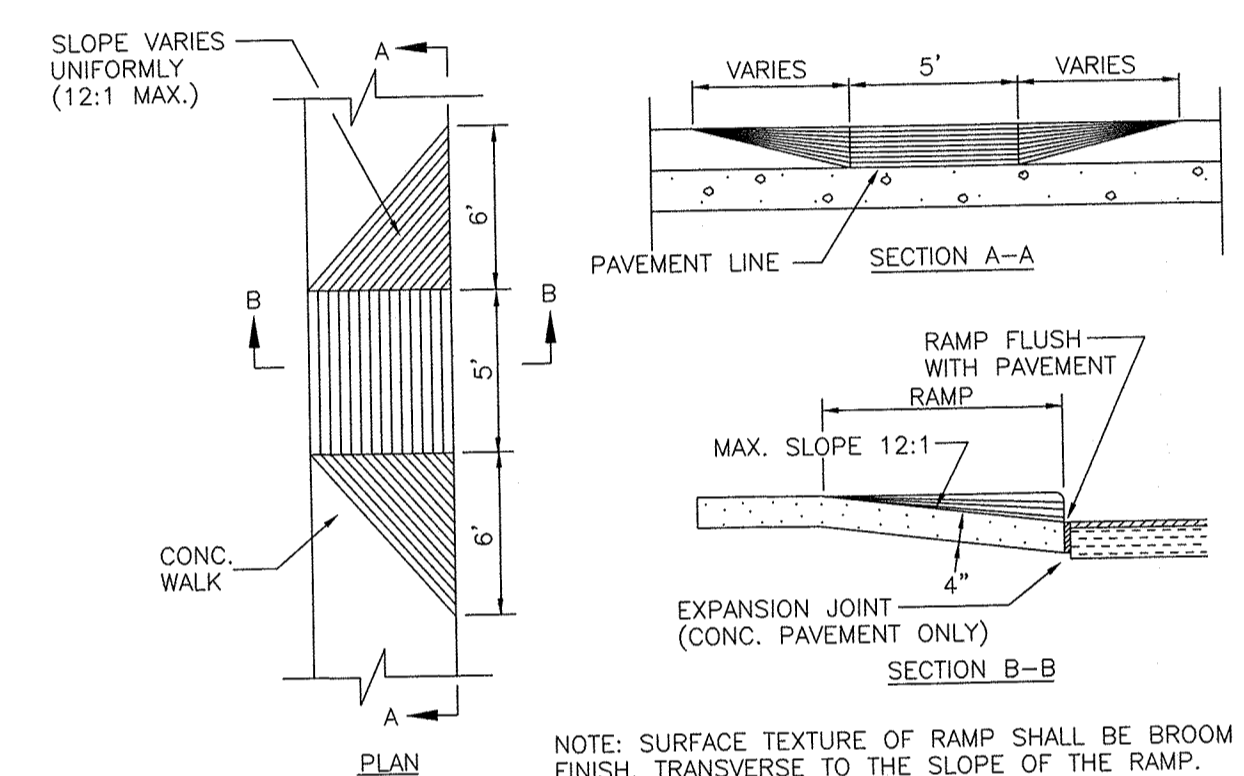
**18\"/>**



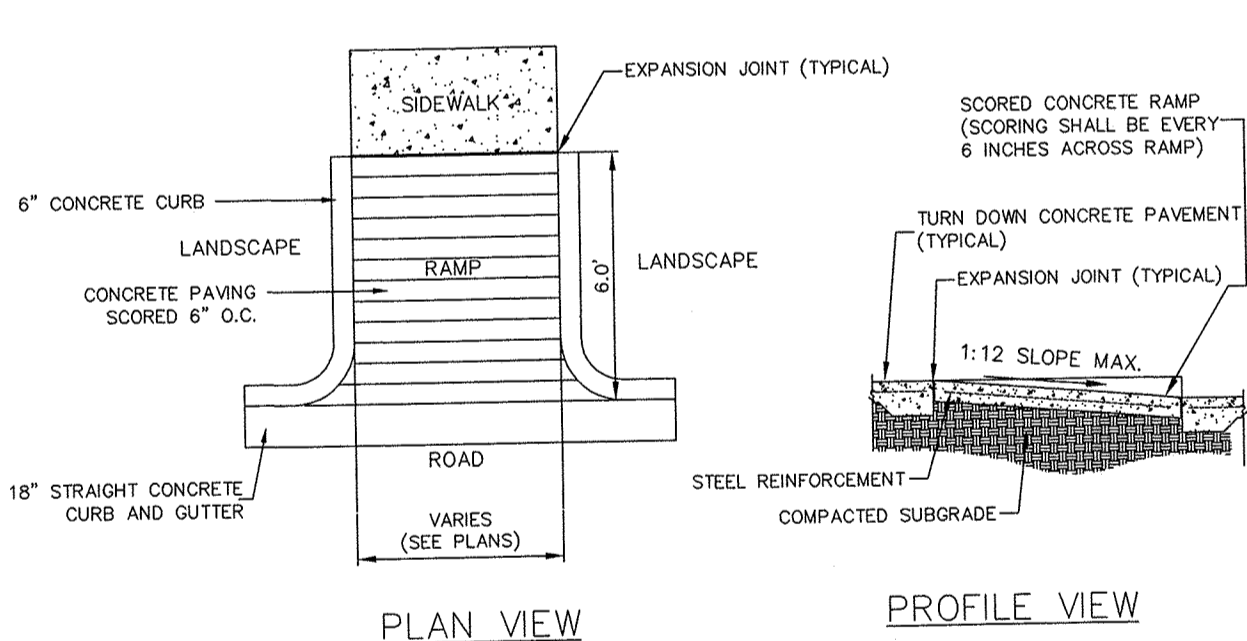
NOTE: SIGN POST SHALL BE INSTALLED AS BREAK AWAY TYPE PER SCDOT DETAIL 651-110-00.  
**POST DETAIL**  
NOT TO SCALE



**SIDEWALK CONTROL AND EXPANSION JOINTS**  
NOT TO SCALE

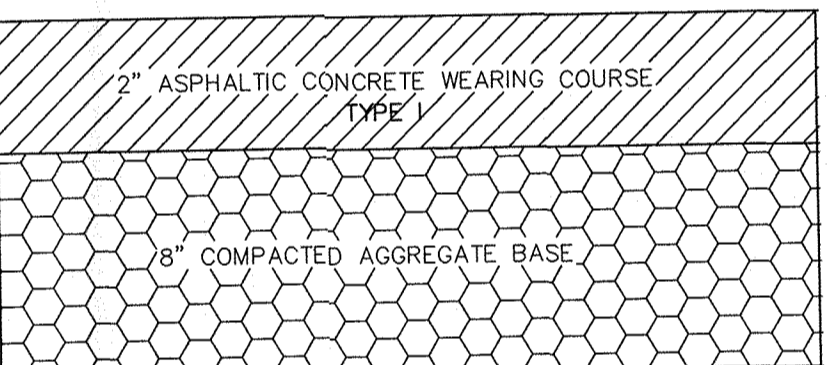


**SIDEWALK ACCESS RAMP**  
(NOT TO SCALE)

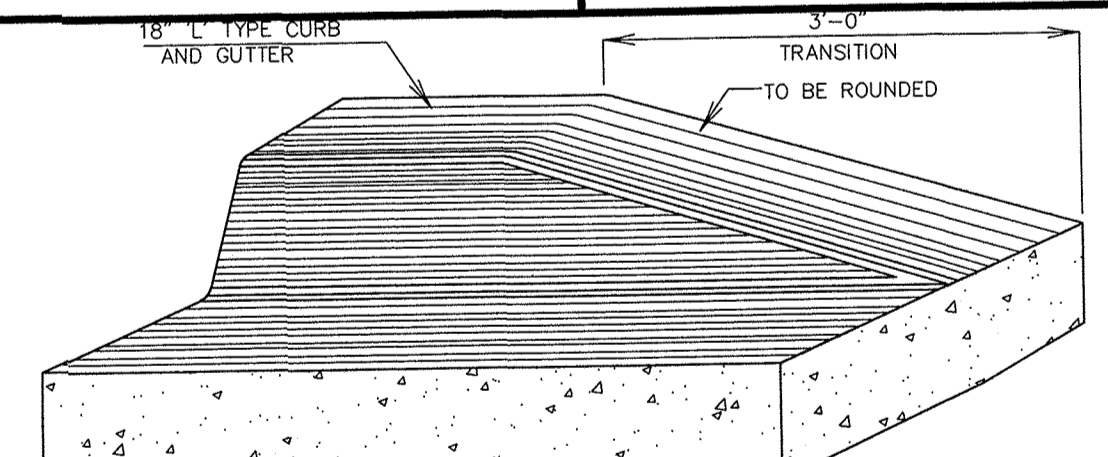


**SIDEWALK ACCESS RAMP**  
(NOT TO SCALE)

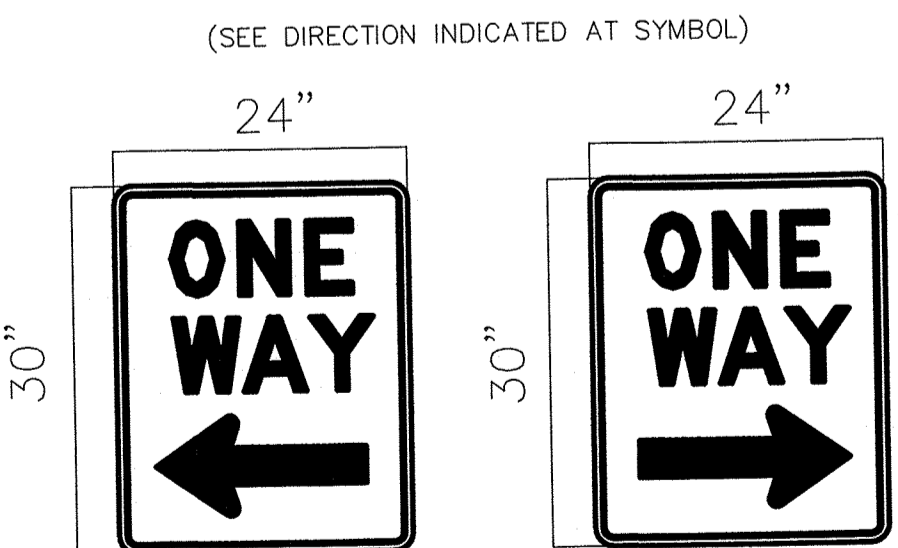
Revision No.	Date	Description	By
1			MM
2			MM
3			MM
4			MM
5			MM
6			MM
7			MM
8			MM
9			MM
10			MM



**PAVING SECTION**  
NOT TO SCALE  
(VERIFY SECTION WITH GEOTECHNICAL ENGR PRIOR TO POURING)  
(VERIFY WITH SPECIFICATIONS)  
1. AGGREGATE BASE COURSE WILL BE SGCD TYPE 1 GABC SECTION 305 PAGE 209 OF SCDOT SPECS.

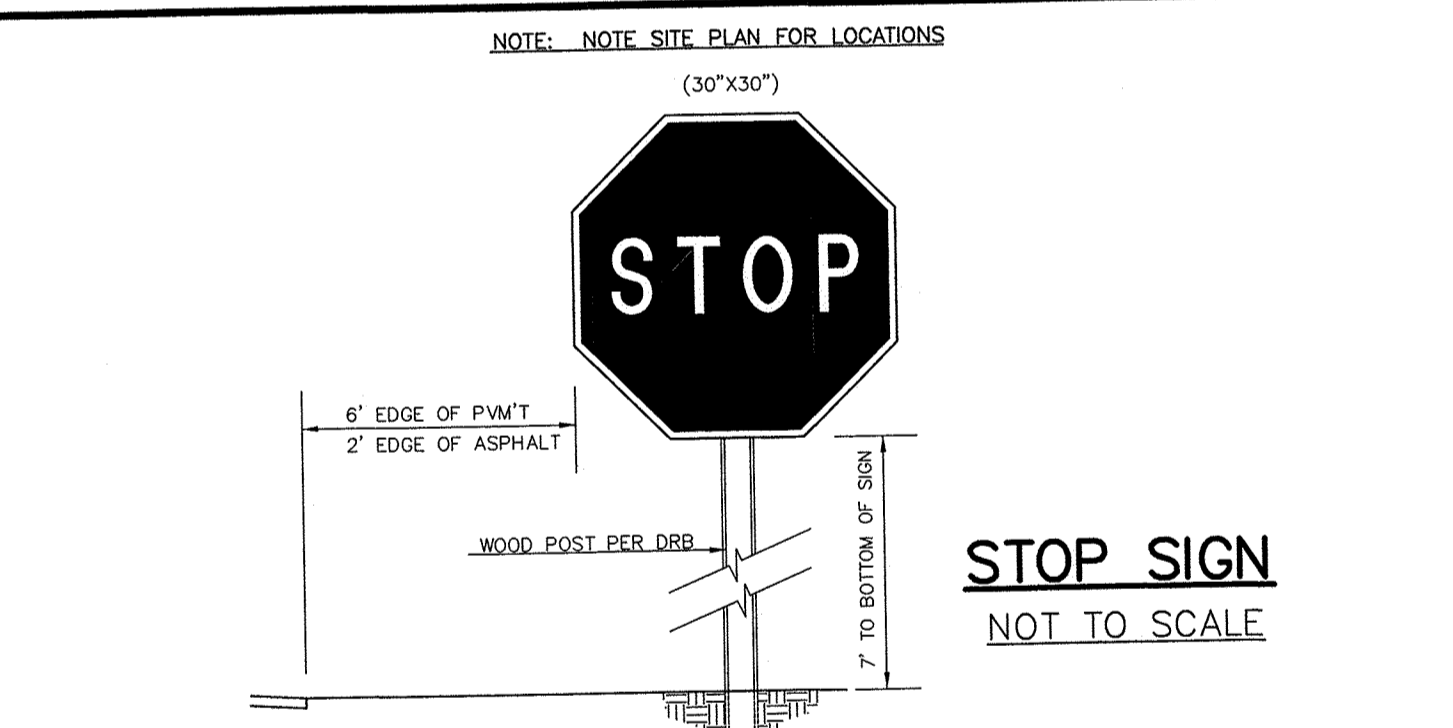


**CURB AND GUTTER FEATHER**  
NOT TO SCALE

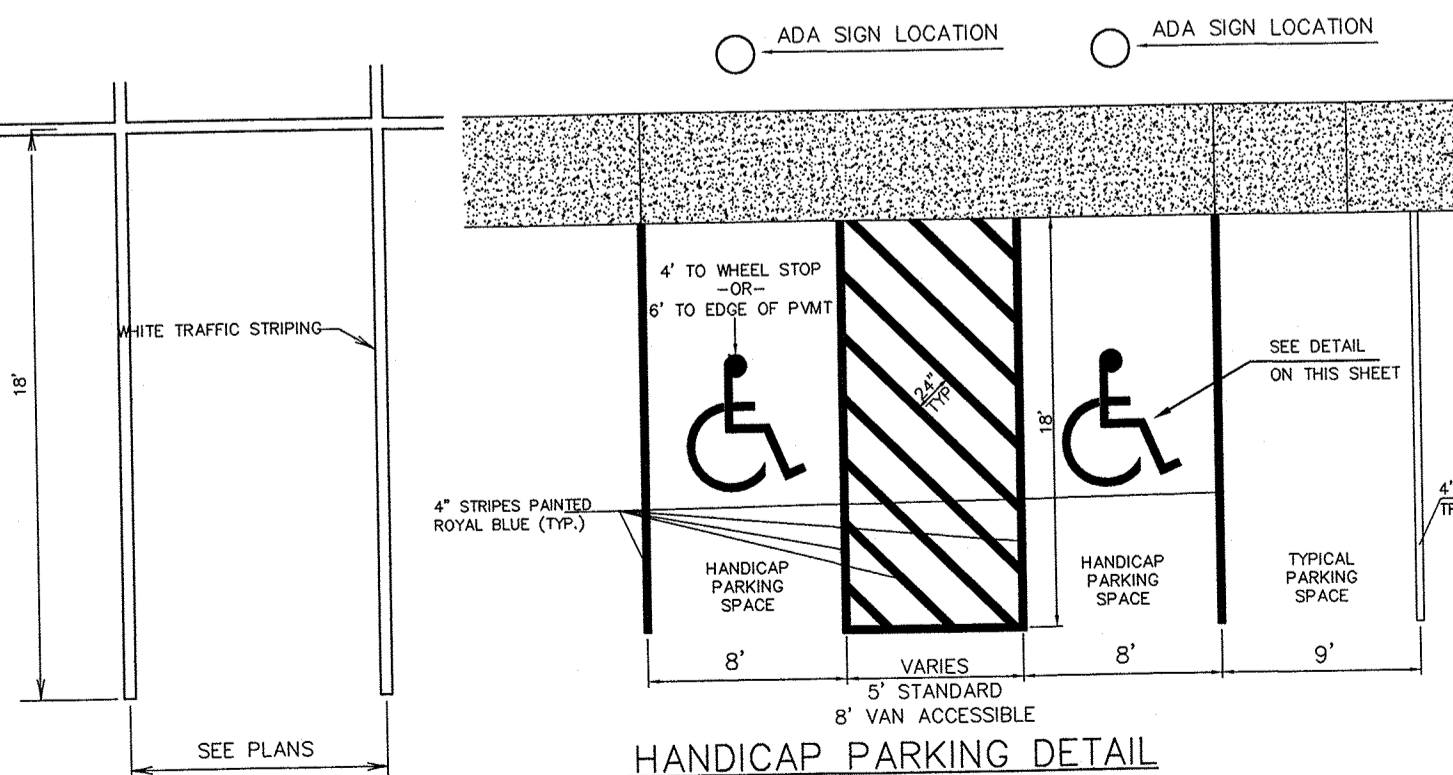


(SEE DIRECTION INDICATED AT SYMBOL)  
BLACK LEGEND ON WHITE BACKGROUND  
R6-2L R6-2R

**"ONE WAY" SIGNS**  
N.T.S.



NOTE: ALL TRAFFIC CONTROL DEVICES WILL BE TO MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.  
BACKGROUND: RED - REFLECTORIZED  
LEGEND AND BORDER: WHITE - REFLECTORIZED  
STOP SIGN PER SCDOT SPECS AND BE MUTCD COMPLIANT.  
SEE SCDOT DRAWINGS 650-305-00 (MAY 2009) AND 651-115-01 (MAY 2009) FOR SPECIFICATIONS.  
SEE MUTCD REF R1-1-30 (R1-1, 30\"/>



**TYPICAL PARKING SPACE**  
NOT TO SCALE

**SITE DETAILS**  
PREPARED FOR  
**BRICKHOPE SELF STORAGE**  
CITY OF GOOSE CREEK, BERKELEY COUNTY, SOUTH CAROLINA

DATE: February 1, 2020

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS  
1250 Fairmont Avenue, Mt. Pleasant, South Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

Project No: 571 Drawing No. CB of CU

SOUTH CAROLINA  
Professional Engineer  
No. 19486  
MICHAEL T. MCCORMICK

**FILTER FABRIC INLET PROTECTION**

**MATERIALS:**  
USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). REFER TO THE SILT FENCE GEOTEXTILE FABRICS APPROVAL SHEET #34.

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.

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

**INSTALLATION:**  
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.

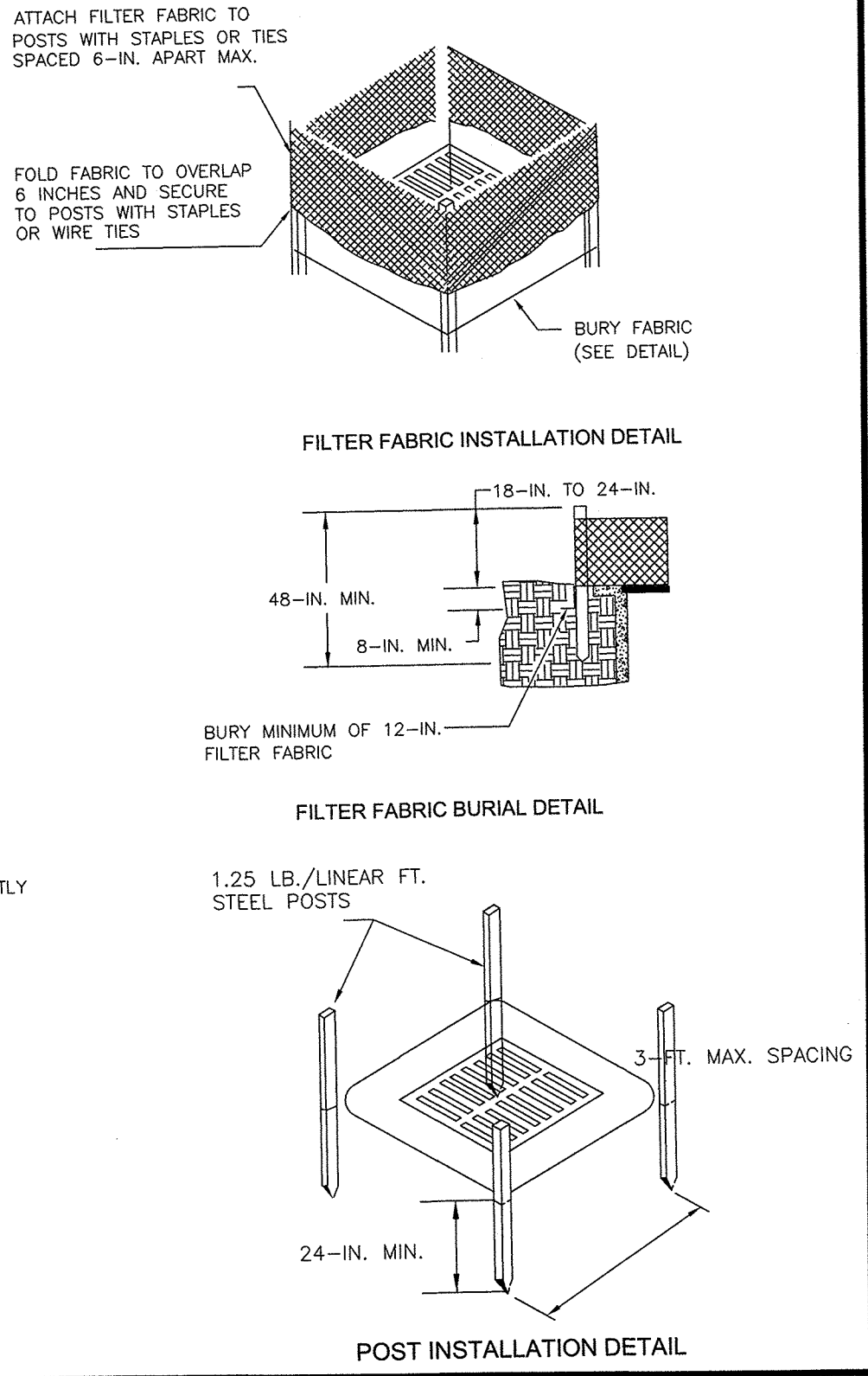
USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (+/-8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE 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.

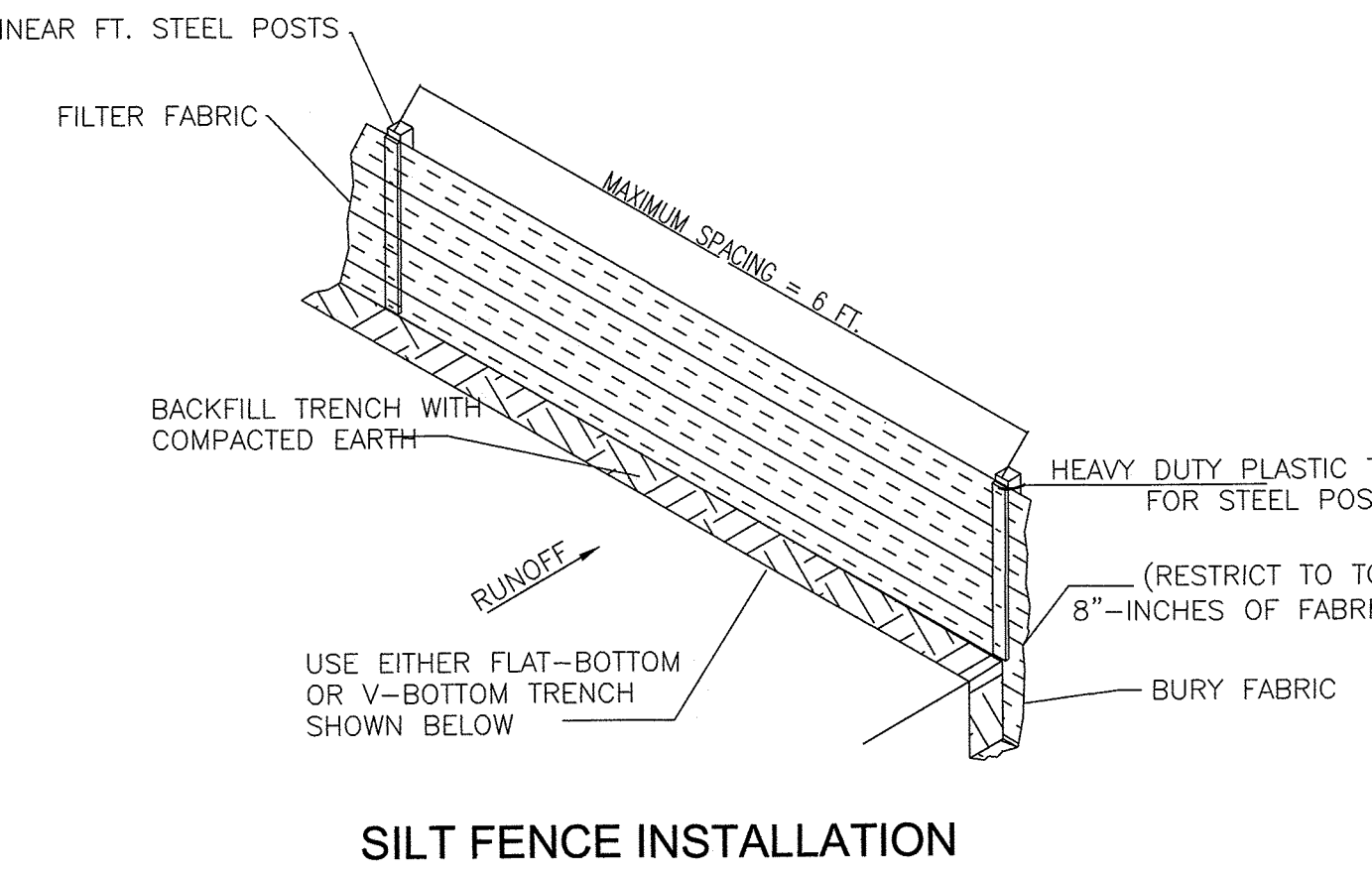
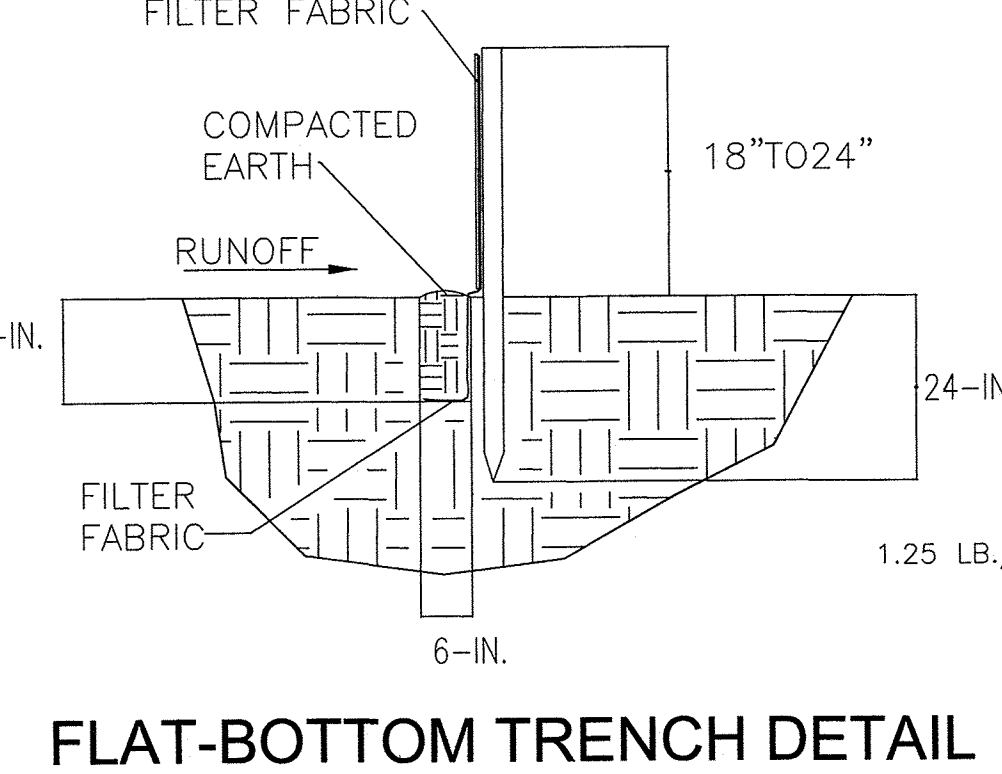
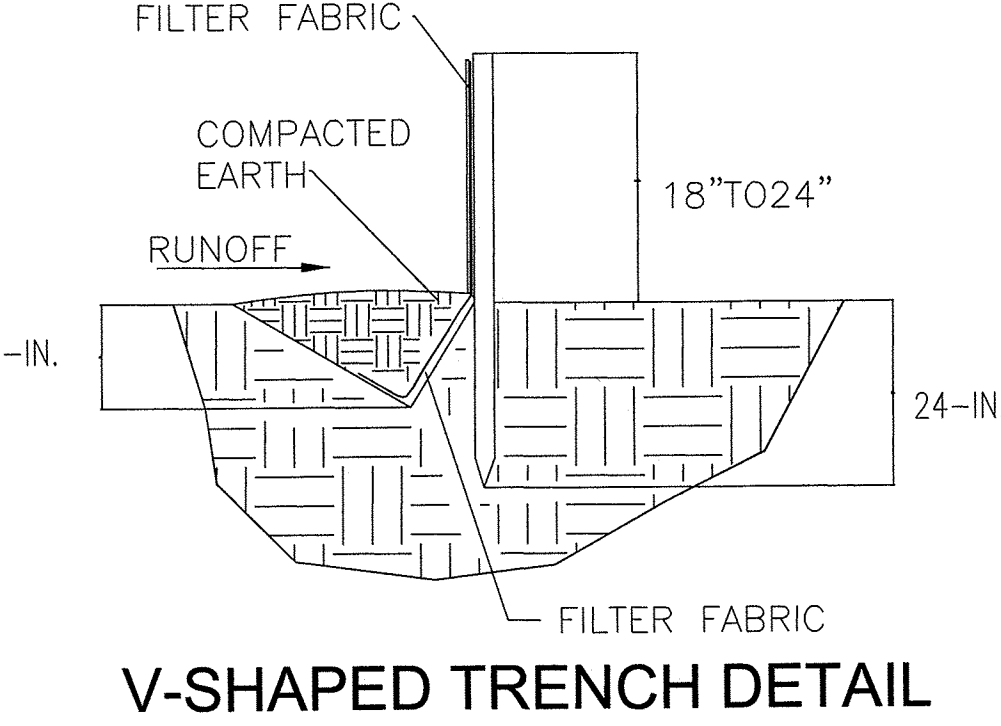
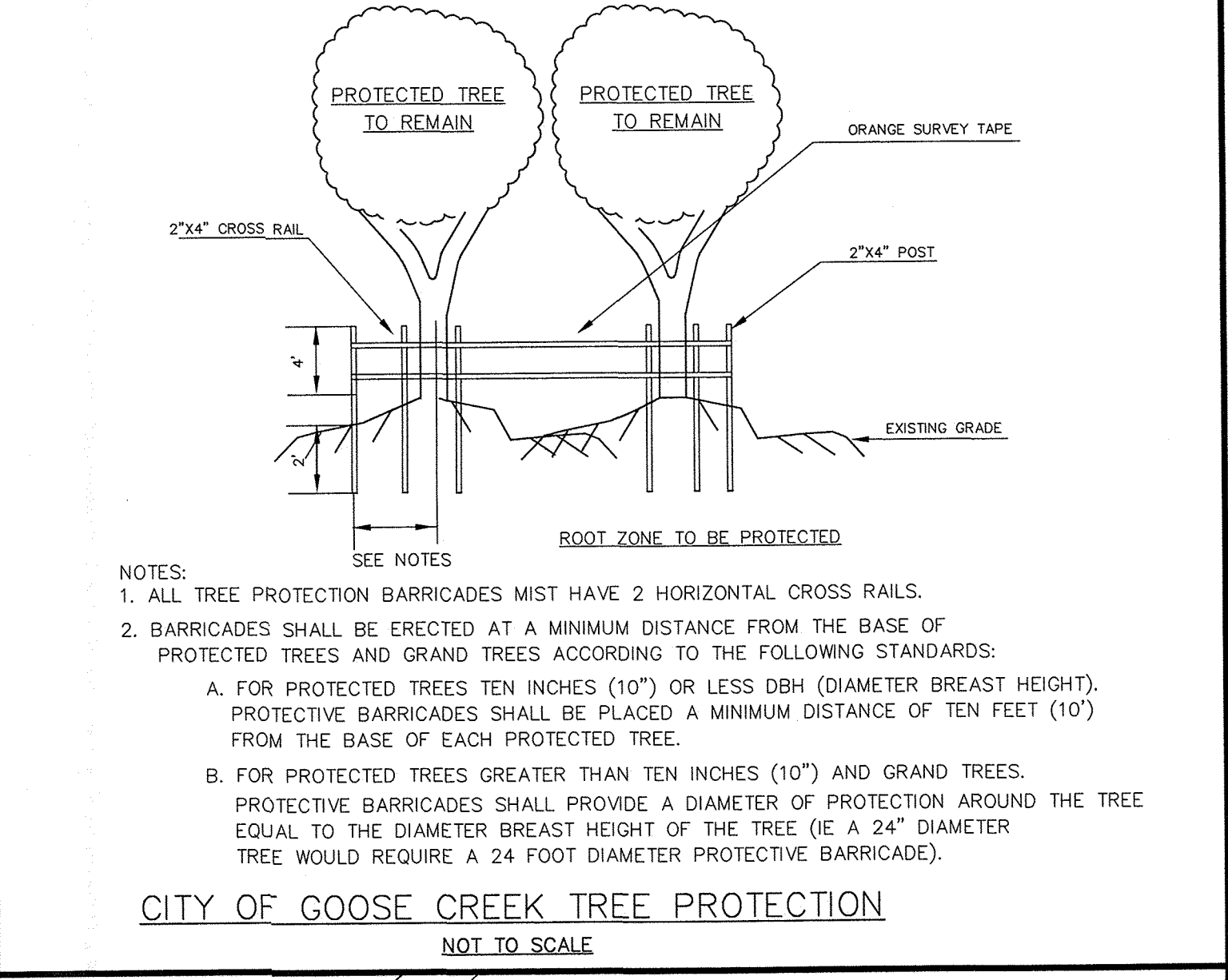
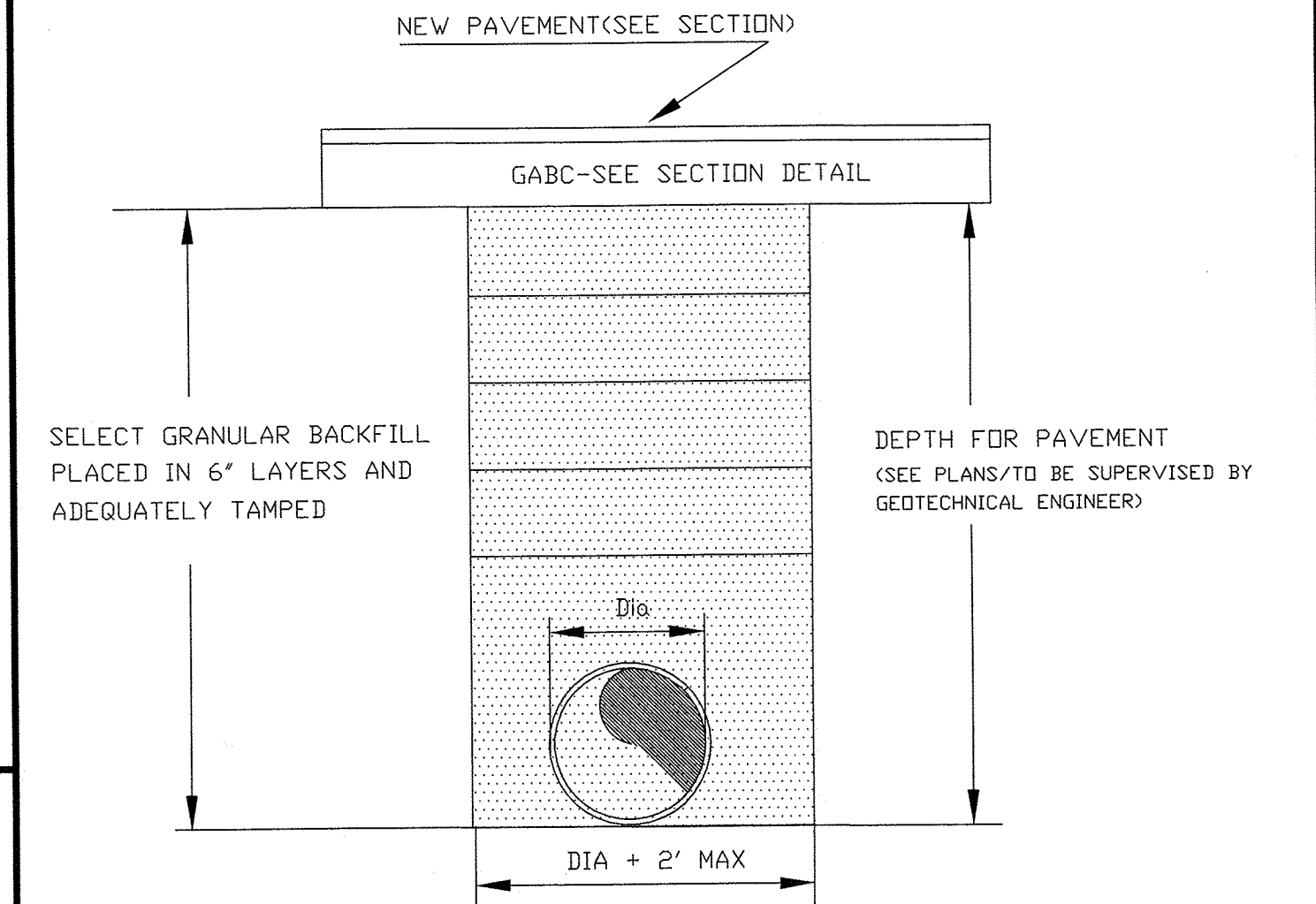
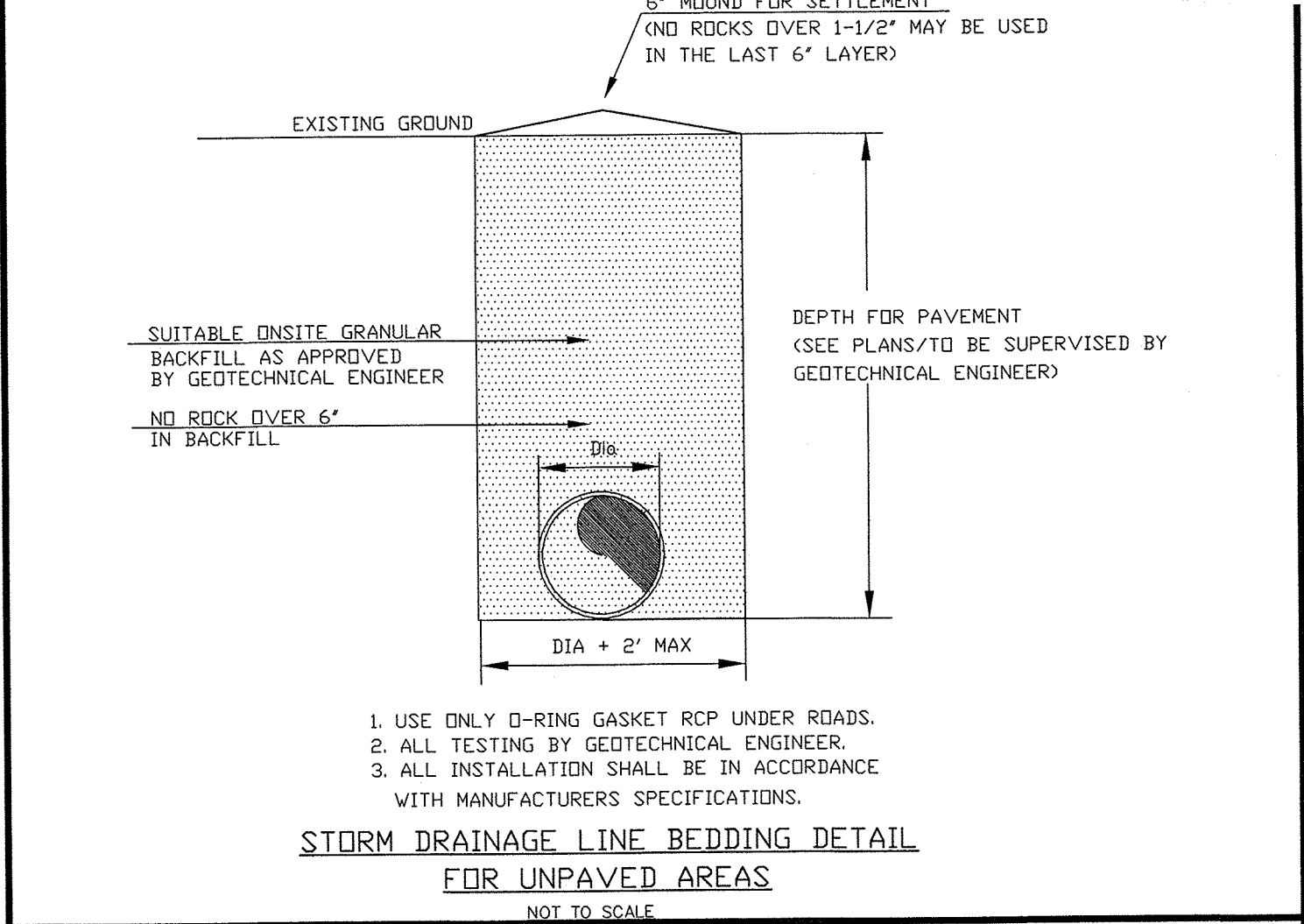
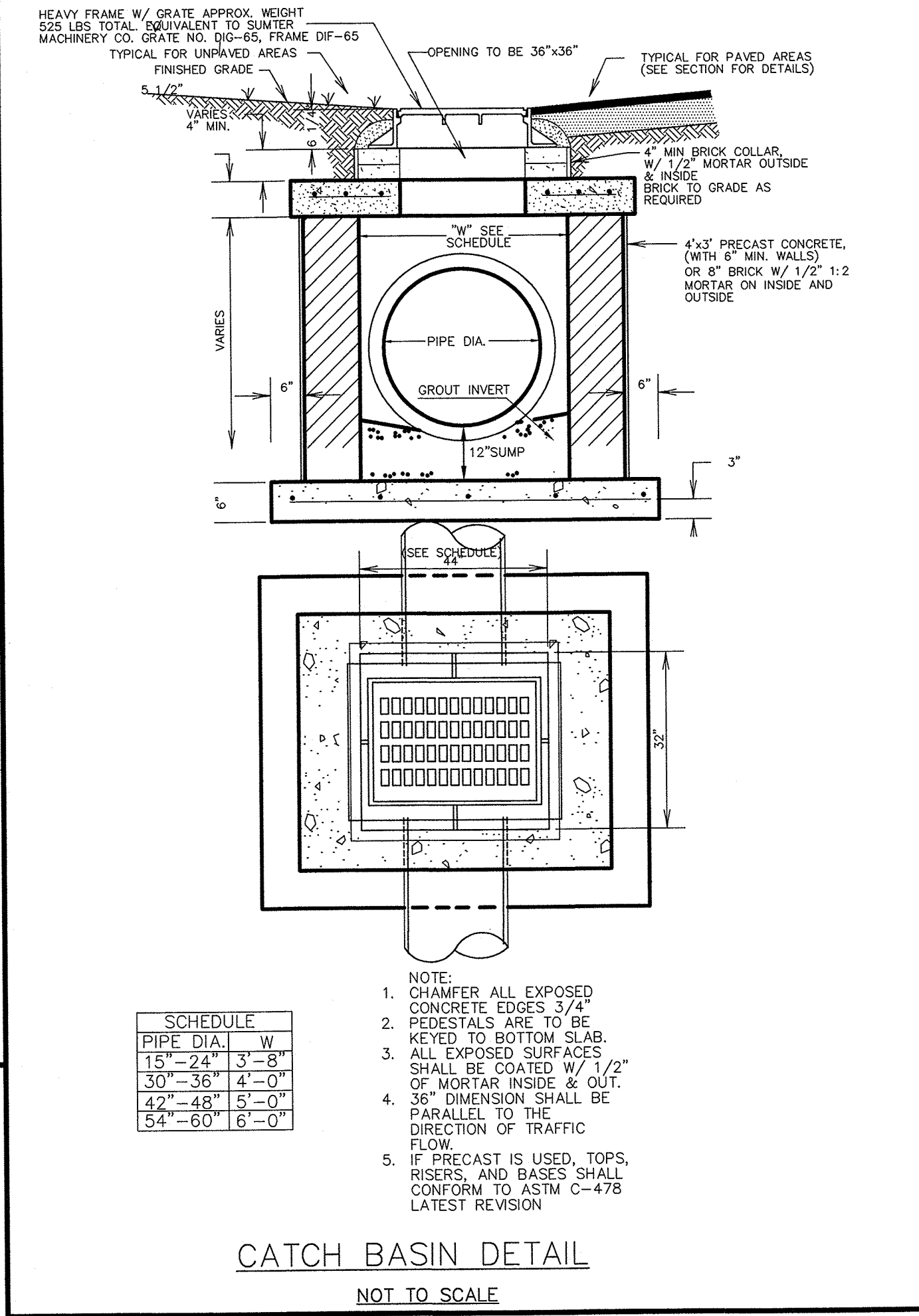
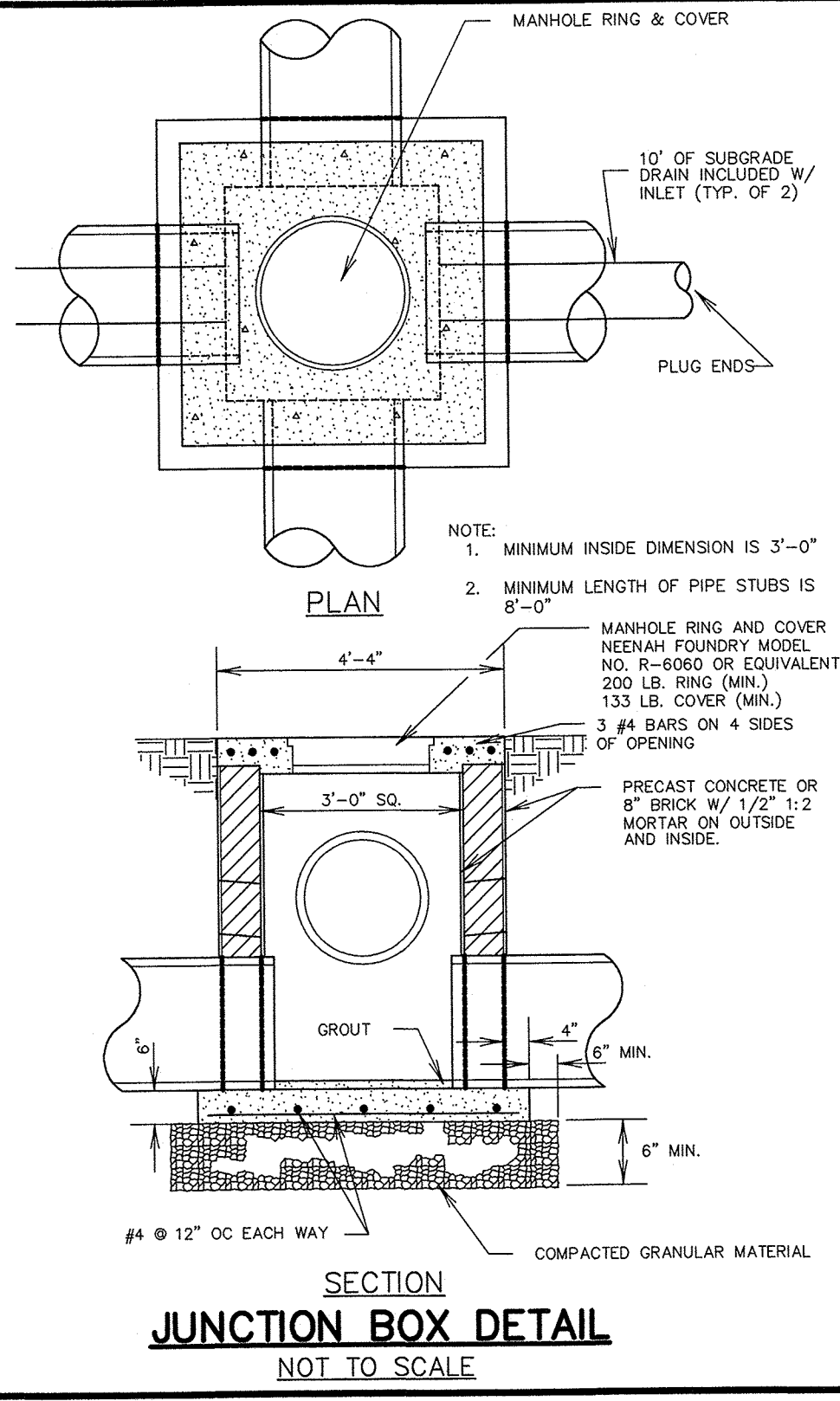
ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

**INSPECTION AND MAINTENANCE:**  
EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCE 1/2-INCHES OR MORE OF RAIN, IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. 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.



**TYPE A FILTER FABRIC INLET PROTECTION**  
NOT TO SCALE



**MATERIALS**

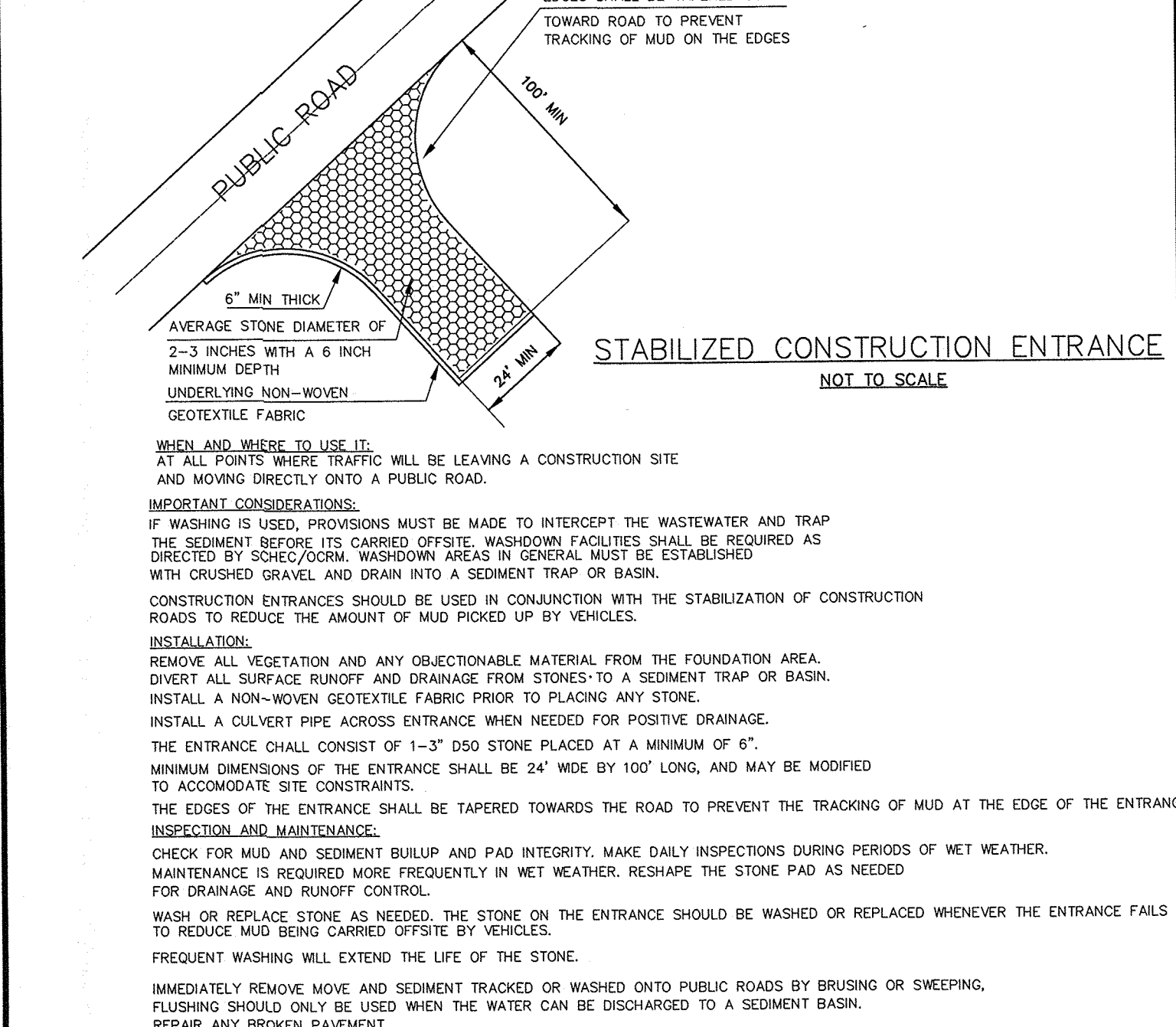
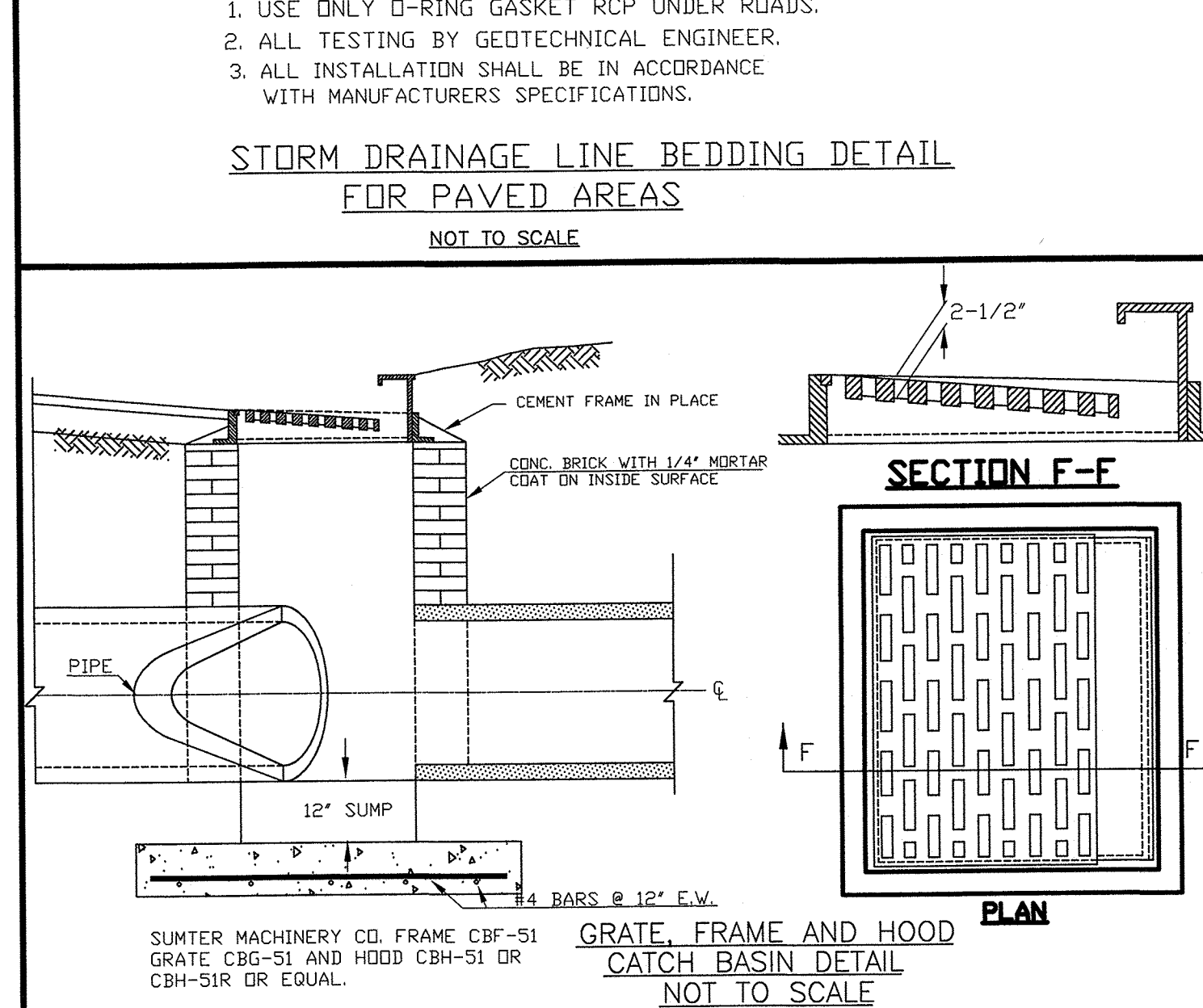
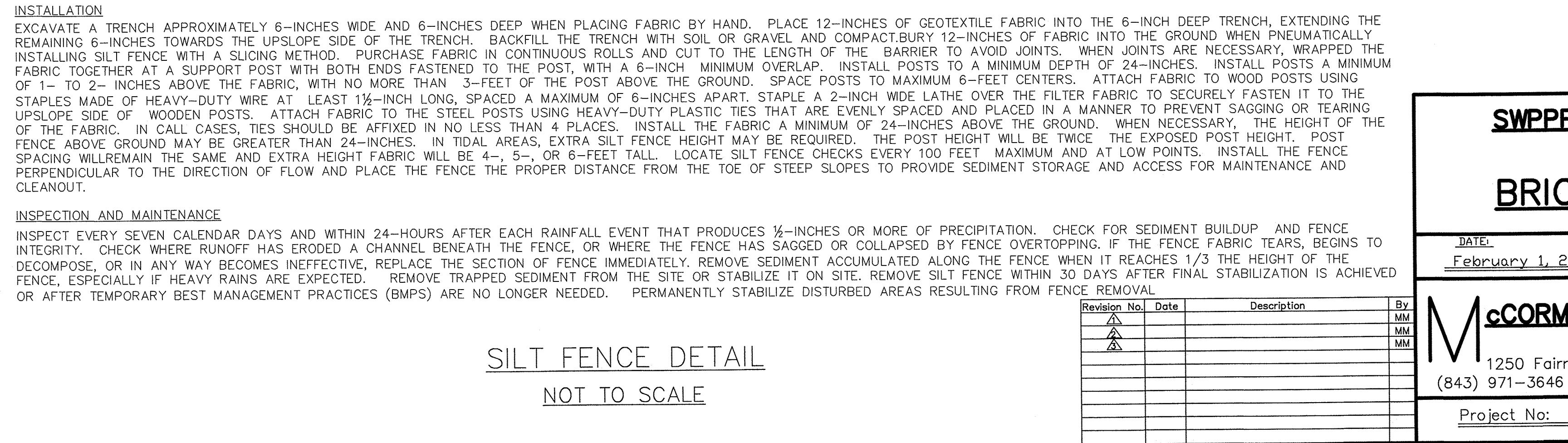
**STEEL POSTS**  
USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:  
COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.  
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.  
WEIGH 1.25 POUNDS PER FOOT (±8%).  
HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS. PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4- FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) 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.

**GEOTEXTILE FILTER FABRIC**  
FILTER FABRIC IS:  
COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85 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.

**INSTALLATION**  
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 TO 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 ALL 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 CLEANOUT.

**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.



**SWPPP AND STORM DRAINAGE DETAILS**

PREPARED FOR

**BRICKHOPE SELF STORAGE**

CITY OF GOOSE CREEK, BERKELEY COUNTY, SOUTH CAROLINA

DATE: February 1, 2020

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS

1250 Fairmont Avenue, Mt. Pleasant, South Carolina - 29464  
(843) 971-3646 Office (843) 881-7532 Fax mccormickassocia@bellsouth.net

Project No: 571 Drawing No. 19 of 111

**McCormick and Associates of S.C., Inc.**  
No. 19486  
PROFESSIONAL ENGINEER NO. 19486

**ADDITIONAL PRACTICES TO MINIMIZE STORM WATER CONTAMINATION**

THE FOLLOWING ADDITIONAL MEASURES WILL BE FOLLOWED TO MINIMIZE POTENTIAL CONTAMINATION OF STORM WATER DISCHARGES:

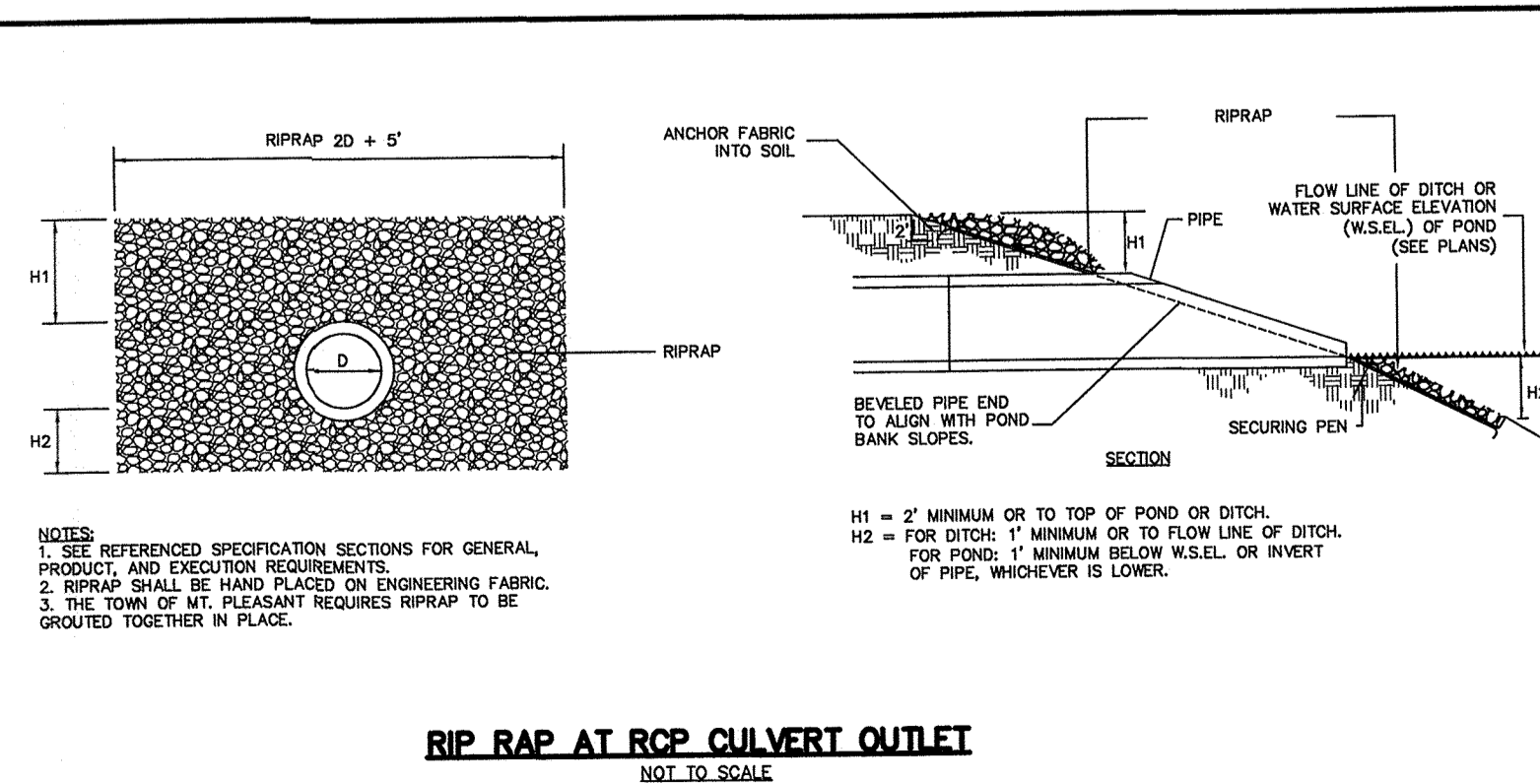
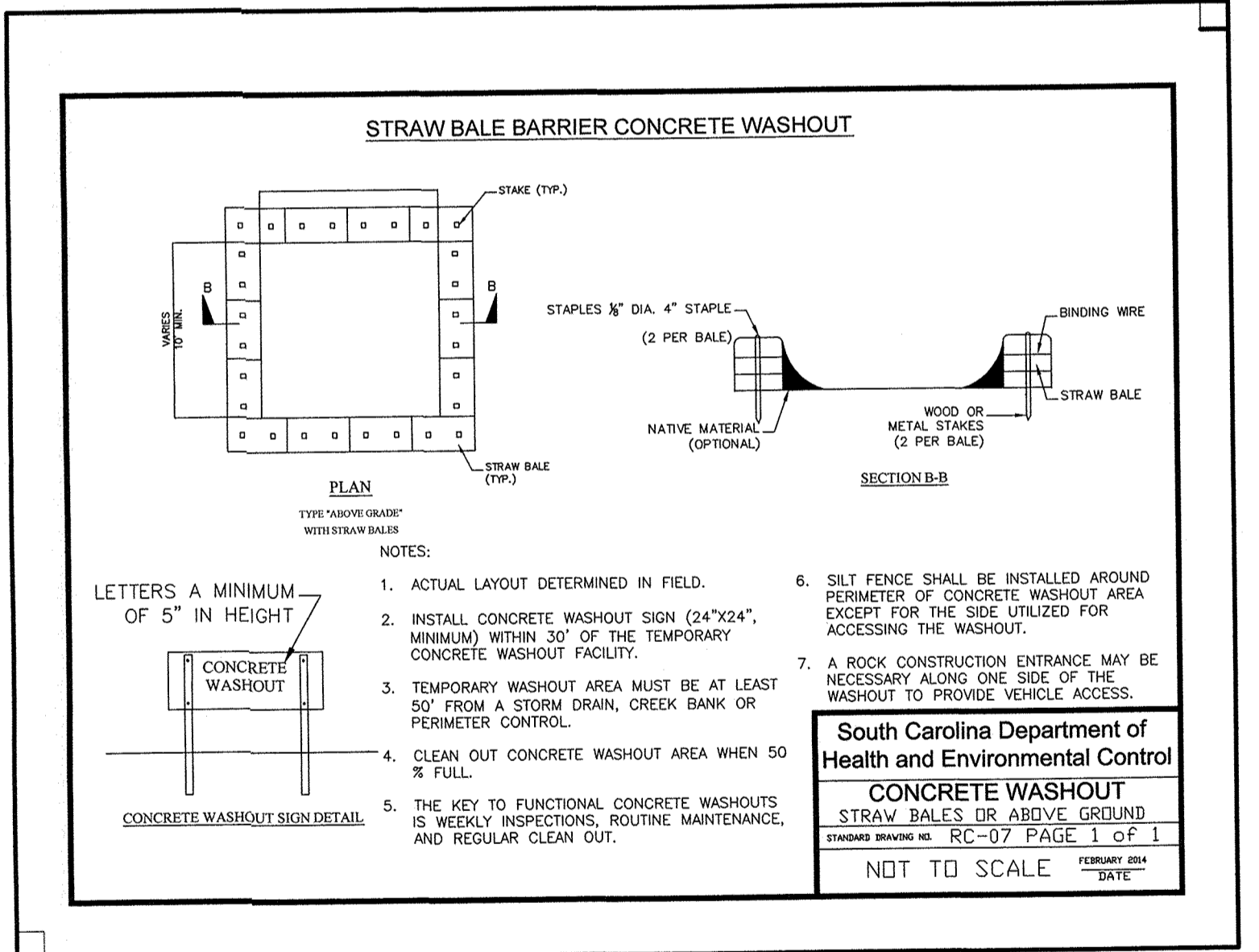
- 1) ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE
- 2) PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED AND SHALL BE STORED IN APPROPRIATE LOCATIONS TO PREVENT UNAUTHORIZED ACCESS.
- 3) SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
- 4) ANY PETROLEUM OR ASPHALT SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- 5) SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS REGULARLY TO AVOID OVERFLOWING.
- 6) COVERED DUMPSTERS WILL BE USED FOR TRASH DISPOSAL. HAZARDOUS WASTE MATERIALS SHOULD BE DISPOSED OF PROPERLY AND SHOULD NOT BE DISPOSED OF WITH TRASH AND OTHER CONSTRUCTION DEBRIS. SITE SHOULD BE POLICED WEEKLY TO CLEAN UP TRASH AND DEBRIS THAT MAY HAVE BEEN BLOWN ACROSS THE SITE. IF FORECAST STORMS ARE PREDICTED TO HAVE HIGH WINDS, APPROPRIATE MEASURES SHOULD BE TAKEN TO SECURE DUMPSTERS AND CONSTRUCTION DEBRIS TO PREVENT MATERIALS FROM BEING BLOWN FROM SITE.
- 7) ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SYSTEM, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- 8) MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN A CENTRAL, ACCESSIBLE LOCATION. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAW DUST, AND PLASTIC AND METAL TRASH CONTAINERS.
- 9) WHEN TESTING/CLEANING OF WATER SUPPLY LINES, THE DISCHARGE FROM THE TESTED PIPE WILL BE COLLECTED AND CONVEYED TO A COMPLETED STORM WATER SYSTEM FOR CONVEYANCE TO THE MAIN STORM WATER RETENTION POND OR TREATMENT SYSTEM ON SITE.
- 10) THE PAVED STREETS ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP WEEKLY (OR MORE FREQUENTLY) TO REMOVE EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
- 11) DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.
- 12) CONSTRUCTION ENTRANCE SHALL BE PERIODICALLY REFRESHED WITH FRESH STONE TO ENSURE PROPER FUNCTIONING OF CONSTRUCTION ENTRANCE.

**CONSTRUCTION STAGING AREAS (INCLUDING BUILDING CONSTRUCTION)**

THE MEASURES LISTED APPLY FOR ALL CONSTRUCTION STAGING AREAS. ADDITIONALLY, STAGING AREAS SHOULD BE APPROPRIATELY SECURED TO PREVENT UNAUTHORIZED ACCESS TO STORED HAZARDOUS MATERIALS AND CONSTRUCTION WASTE AND DEBRIS. IF BUILDING CONSTRUCTION TAKES PLACE AFTER BASE COURSE HAS BEEN PLACED (OR AFTER ASPHALT COURSE HAS BEEN PLACED) INLET PROTECTION SHOULD BE PLACED AROUND ANY INLETS TO WHICH STORM WATER FROM STAGING AREA WILL DRAIN. INLET PROTECTION SHOULD BE PROTECTED FROM TRAFFIC WHICH MAY RUN OVER OR DISTURB PROTECTION MEASURES.

**GRASSING REQUIREMENTS:**

1. ALL SOD SHALL BE NURSERY GROWN AS CLASSIFIED IN THE ASPS GSS. MACHINE CUT SOD AT A UNIFORM THICKNESS OF 3/4" WITHIN AN ACCEPTABLE TOLERANCE EXCLUDING TOP GROWTH. LANDSCAPE ARCHITECT SHALL INSPECT AND APPROVE SOD WHEN DELIVERED AND APPROVE PRIOR TO INSTALLATION.
2. LAY SOD FROM MAY 1 TO SEPTEMBER 15 FOR SPRING PLANTINGS AND FROM SEPTEMBER 15 TO NOVEMBER 1 FOR FALL PLANTINGS.
3. ALL SOD SHALL CONFORM TO ALL APPLICABLE STATE LAWS AND TO ALL REQUIREMENTS OF THE AGRICULTURE DEPARTMENT.
4. ALL SEED BAGS SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SPREADING.
5. PERMANENTLY SEED ALL DISTURB AREAS NOT COVERED BY DESIGNED LANDSCAPING OR STRUCTURE.
6. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED (CONSULT WITH LANDSCAPE ARCHITECT).
7. CENTIPEDE SOD CAN BE USED FOR PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR SHALL APPLY PERMANENT COVER AT THE APPROPRIATE TIME AT NO ADDITIONAL COST TO THE OWNER.

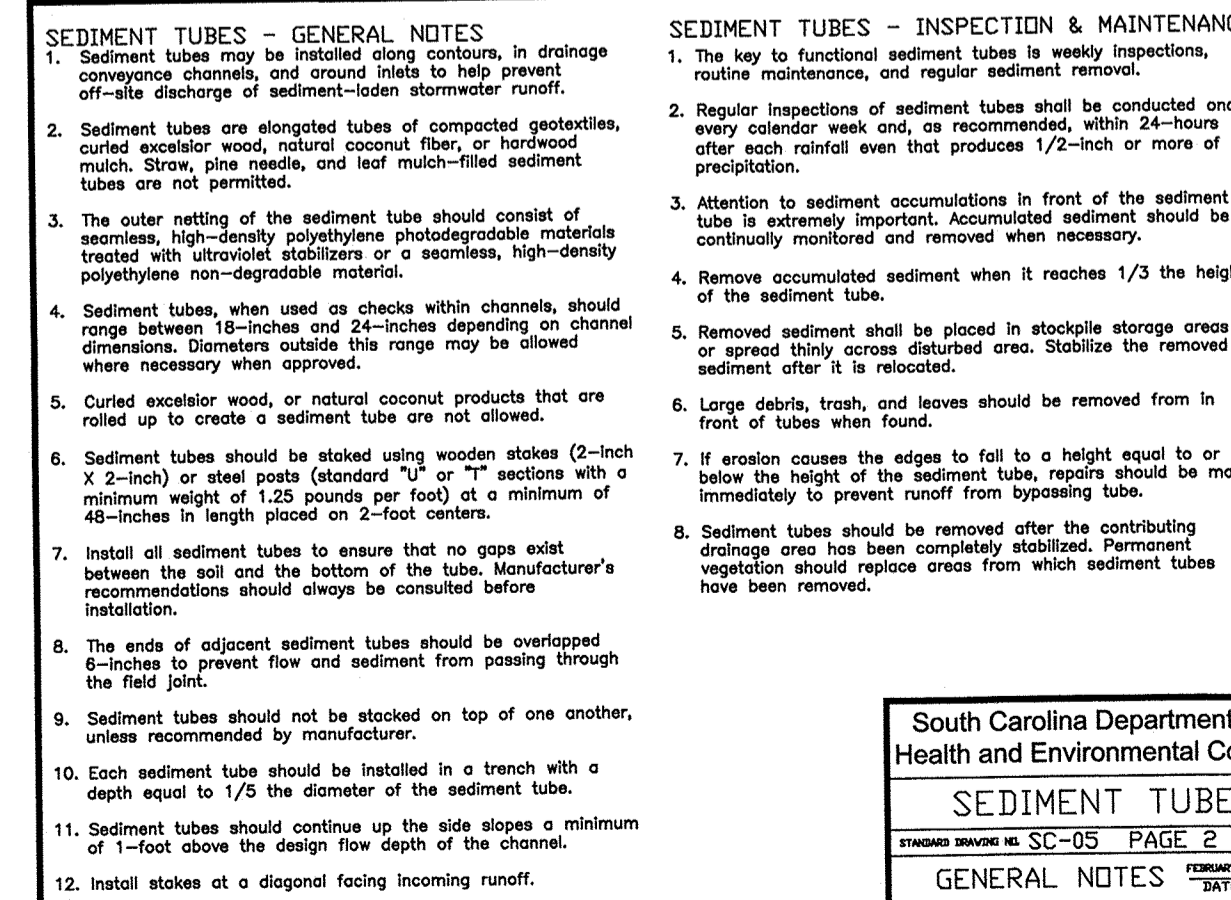
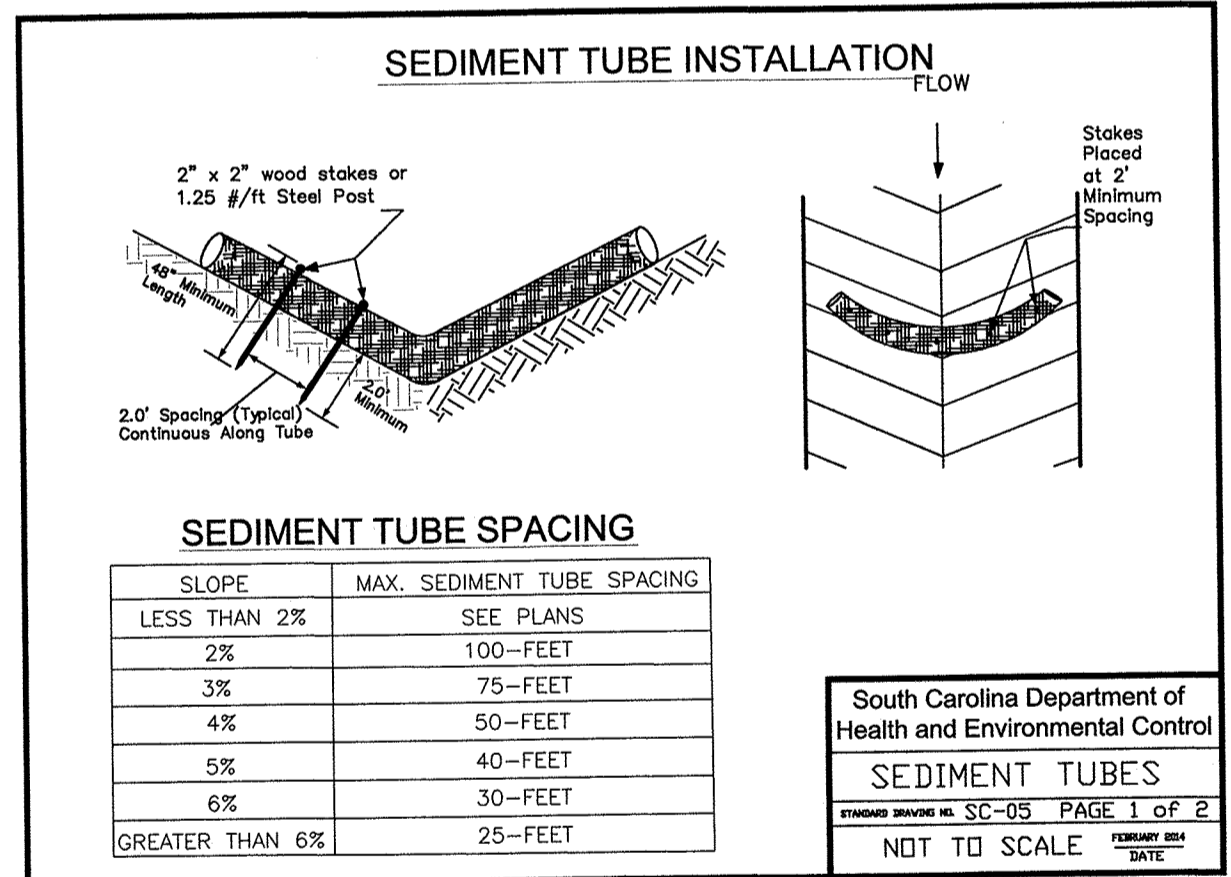


**TABLE 1. SEEDING SCHEDULE**

TEMPORARY SEEDING		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SPECIES	LBS/AC												
BROWNTOP MILLET (ALDNE)	40 LBS/AC												
BROWNTOP MILLET (MDX)	10 LBS/AC												
RYE GRAIN (ALDNE)	56 LBS/AC												
RYE GRAIN (MDX)	10 LBS/AC												
RYEGRASS (ALDNE)	50 LBS/AC												
RYEGRASS (MDX)	8 LBS/AC												
FOR STEEP SLOPES/CUT SLOPES													
WEAVING LOVEGRASS (ALDNE)	4 LBS/AC												
WEAVING LOVEGRASS (MDX)	2 LBS/AC												

PERMANENT SEEDING		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SPECIES	LBS/AC												
BAHIA GRASS (ALDNE)	40 LBS/AC												
BAHIAGRASS (MDX)	30 LBS/AC												
BERMUDA GRASS (QUILLED) (ALDNE)	8-12 LBS/AC												
BERMUDA GRASS (QUILLED) (ALDNE)	4-6 LBS/AC												
FESCUE, TALL (KY3D) (MDX)	40 LBS/AC												
FESCUE, TALL (KY3D) (MDX)	20 LBS/AC												
SERICA LESPEDEZA (SCARIFIED) ALDNE OR MIX (INCUDULATE WITH EL INCUDULANT)	40 LBS/AC												
LABIND CLOVER (MDX ONLY)	2 LBS/AC												
INCUDULATE WITH AB INCUDULANT													
FOR STEEP SLOPES/CUT SLOPES													
VEEPPING LOVEGRASS (ALDNE)	4 LBS/AC												
VEEPPING LOVEGRASS (MDX)	2 LBS/AC												
CRDNVVETCH (MDX) (INCUDULATE WITH TYPE N INCUDULANT)	8-10 LBS/AC												



**CONTRACTOR CERTIFICATIONS AND CO-PERMITTEE STATUS**

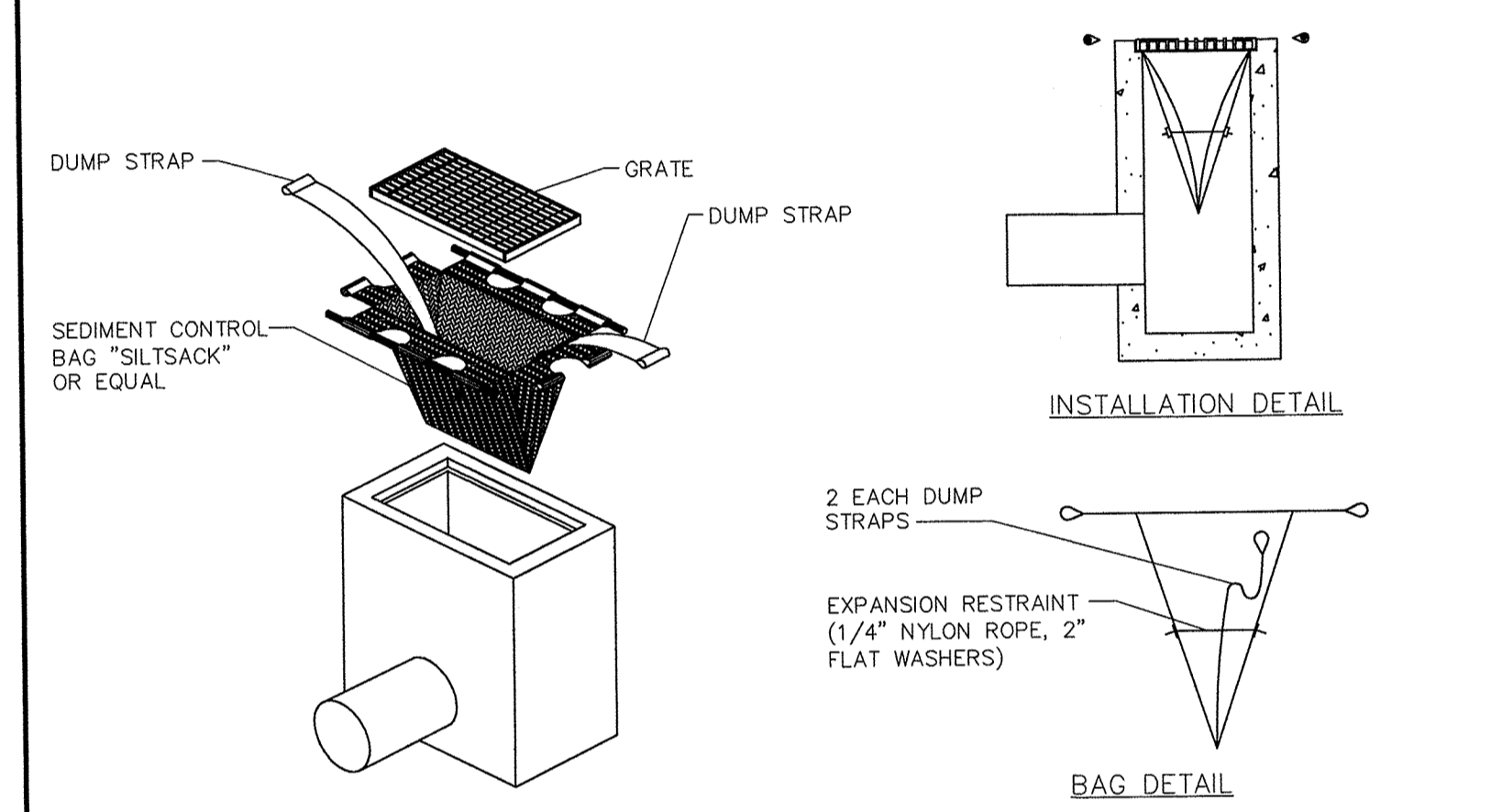
PER NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (SCR100000, EFFECTIVE JAN 1, 2013) :

1. THE OWNER OF A PROJECT, AS THE APPLICANT FOR THE NPDES PERMIT, IS RESPONSIBLE FOR COMPLIANCE WITH ALL THE TERMS AND CONDITIONS OF THIS PERMIT AND THE SWPPP. THE OWNER MAY RELY ON OTHER PERSONS TO ASSIST IN COMPLIANCE WITH THIS PERMIT AND THE SWPPP. AS SUCH, THE PROJECT OWNER AND CONTRACTORS AND SUBCONTRACTORS WHO WILL CONDUCT CONSTRUCTION ACTIVITIES INTENDED TO DISTURB SOILS MAY ELECT TO BE CO-PERMITTEES. FURTHER, ALL CONTRACTORS WHO WILL CONDUCT CONSTRUCTION RELATED WORK INTENDED TO DISTURB SOILS AT THE SITE THAT MAY AFFECT IMPLEMENTATION OF THE SWPPP, REGARDLESS OF WHETHER OR NOT THEY ARE CO-PERMITTEES, MUST BE LISTED IN THE SWPPP AND ATTEND A PRE-CONSTRUCTION CONFERENCE BEFORE THEY CAN CONDUCT CONSTRUCTION ACTIVITY AT THE SITE.
2. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN AS CO-PERMITTEES MUST SIGN A COPY OF THE CERTIFICATION STATEMENT GIVEN BELOW:  
"I CERTIFY BY MY SIGNATURE BELOW THAT: A) FOR SITES THAT DISTURB 10 OR MORE ACRES, I PARTICIPATED IN A PRE-CONSTRUCTION CONFERENCE ON SITE OR, WHEN ALLOWED, OFFSITE WITH THE INDIVIDUAL WHO IS RESPONSIBLE FOR THE OPERATIONAL CONTROL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP); AND B) I ACCEPT THE TERMS AND CONDITIONS OF SWPPP AS REQUIRED BY THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT NUMBER SCR100000) ISSUED TO THE OWNER/OPERATOR OF THE CONSTRUCTION ACTIVITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM CONSTRUCTION RELATED PROFESSIONAL SERVICES. FURTHER, BY MY SIGNATURE BELOW, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE WITH THE OWNER/OPERATOR AND OTHER CONTRACTORS THAT HAVE BECOME CO-PERMITTEES TO THE GENERAL NPDES PERMIT ISSUED TO THE OWNER/OPERATOR OF THE FACILITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM PROFESSIONAL CONSTRUCTION SERVICES. AS A CO-PERMITTEE, I UNDERSTAND THAT I, AND MY COMPANY, AS THE CASE MAY BE, AM LEGALLY ACCOUNTABLE TO THE SC DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (DHEC), UNDER THE AUTHORITIES OF THE CWA AND THE SC POLLUTION CONTROL ACT, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE SWPPP." I ALSO UNDERSTAND THAT DHEC ENFORCEMENT ACTIONS MAY BE TAKEN AGAINST ANY SPECIFIC CO-PERMITTEE OR COMBINATION OF CO-PERMITTEES IF THE TERMS AND CONDITIONS OF THE SWPPP ARE NOT MET. THEREFORE, HAVING UNDERSTOOD THE ABOVE INFORMATION, I AM SIGNING THIS CERTIFICATION AND AM RECEIVING CO-PERMITTEE STATUS TO THE AFORESAID GENERAL NPDES PERMIT."
3. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN TO PERFORM CONSTRUCTION RELATED WORK INTENDED TO DISTURB SOILS AT THE SITE THAT MAY AFFECT THE IMPLEMENTATION OF THE SWPPP BUT WHO WILL NOT BE CO-PERMITTEES MUST SIGN THE CERTIFICATION STATEMENT GIVEN BELOW:  
"I CERTIFY BY MY SIGNATURE BELOW THAT: A) FOR SITES THAT DISTURB 10 OR MORE ACRES, I PARTICIPATED IN A PRE-CONSTRUCTION CONFERENCE ON SITE OR, WHEN ALLOWED, OFFSITE WITH THE INDIVIDUAL WHO IS RESPONSIBLE FOR THE OPERATIONAL CONTROL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP); AND B) I UNDERSTAND THE TERMS AND CONDITIONS OF SWPPP AS REQUIRED BY THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES PERMIT NUMBER SCR100000) ISSUED TO THE OWNER/OPERATOR OF THE CONSTRUCTION ACTIVITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM CONSTRUCTION RELATED PROFESSIONAL SERVICES. I UNDERSTAND THAT I, AND MY COMPANY, AS THE CASE MAY BE, MAY BE LEGALLY ACCOUNTABLE TO THE SC DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (DHEC), UNDER THE AUTHORITIES OF THE CWA AND THE SC POLLUTION CONTROL ACT, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE SWPPP."
4. THE DATE OF THE SIGNATURE, THE TITLE OF THE PERSON PROVIDING THE SIGNATURE, AND THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTRACTOR SHALL ALSO BE PROVIDED. IN THE EVENT THE OWNER AMENDS THE SWPPP, SUCH AMENDMENTS SHOULD BE INCORPORATED TO THE PLAN AND THE CONTRACTORS AND SUBCONTRACTORS SHOULD ACKNOWLEDGE BY SIGNATURE, CO-PERMITTEES WHO HAVE COMPLETED THEIR WORK PRIOR TO THE AMENDMENTS DO NOT HAVE TO SIGN THE AMENDMENTS.
5. THE SIGNATORY REQUIREMENTS OF §122.22 OF SOUTH CAROLINA REGULATION 61-9 (SEE APPENDIX C OF THIS PERMIT) ARE APPLICABLE TO EACH CONTRACTED ENTITY THAT MUST SIGN ONE OF THE CONTRACTOR'S CERTIFICATION STATEMENTS. UPON SIGNING THE CO-PERMITTEE CERTIFICATION, THE CONTRACTOR IS A CO-PERMITTEE AND BECOMES ACCOUNTABLE TO DHEC TO ENSURE THE TERMS AND CONDITIONS OF THIS PERMIT ARE IMPLEMENTED. ALL CO-PERMITTEES ARE SUBJECT TO DHEC ENFORCEMENT ACTIONS IF PERMIT CONDITIONS ARE NOT MET. ENFORCEMENT ACTIONS MAY BE TAKEN AGAINST ANY SPECIFIC CO-PERMITTEE OR COMBINATION OF CO-PERMITTEES GIVEN TO THE PARTY RESPONSIBLE FOR VIOLATION. THE OWNER/OPERATOR SUBMITTING THE NOI SHALL RETAIN ALL CONTRACTOR CERTIFICATIONS FOR AT LEAST THREE YEARS AFTER A CONTRACTOR HAS COMPLETED WORK AT THE SITE. CONTRACTORS WHO SIGN THE CERTIFICATION FOR BEING A CO-PERMITTEE MAY BE LIABLE TO DHEC ENFORCEMENT ACTIONS RELATED TO THEIR WORK AT THE SITE. ALL CERTIFICATIONS MUST BE INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN.
6. COPIES OF ALL CONTRACTOR CERTIFICATIONS AND A COPY OF THIS PERMIT SHALL BE KEPT WITH THE SWPPP FOR CONSTRUCTION SITES THAT DISTURB 10 ACRES OR MORE. THE FIRST MONTHLY REPORT OR COPIES OF THE FIRST MONTH'S INSPECTION FORMS (REFER TO PART 4.2) SUBMITTED BY THE OWNER/OPERATOR TO THE DEPARTMENT AFTER CONSTRUCTION BEGINS ON THE FACILITY MUST INCLUDE THE ORIGINAL AND ONE COPY OF ALL CO-PERMITTEE AND OTHER CONTRACTOR CERTIFICATIONS. IF ADDITIONAL CO-PERMITTEES OR OTHER CONTRACTORS ARE ADDED LATER ON, THE ORIGINAL AND ONE COPY OF THE ADDITIONAL CO-PERMITTEE OR CONTRACTOR CERTIFICATIONS MUST BE SUBMITTED ALONG WITH THE MONTHLY REPORTS OR COPIES OF THE INSPECTION FORMS SUBMITTED AFTER THE SIGNING OF THE CERTIFICATION. FOR CONSTRUCTION SITES THAT DISTURB LESS THAN 10 ACRES, THE OWNER/OPERATOR OF THE FACILITY COVERED BY THIS PERMIT SHALL MAKE ALL CONTRACTOR CERTIFICATIONS AVAILABLE TO DHEC UPON REQUEST. THE DEPARTMENT MAY ON A CASE-BY-CASE BASIS REQUIRE THE SUBMITTAL OF THE CO-PERMITTEE AND OTHER CONTRACTOR CERTIFICATIONS."

**TABLE 2. POTENTIAL STORMWATER CONTAMINANTS**

MATERIAL	CHEMICAL/PHYSICAL DESCRIPTION	POTENTIAL STORMWATER POLLUTANT
PESTICIDES (INSECTICIDES, FUNGICIDES, HERBICIDES, RODENTICIDES)	VARIOUS COLORED TO COLORLESS LIQUID, POWDER, PELLETS, OR GRAINS	CHLORINATED HYDROCARBONS, ORGANOPHOSPHATES, CARBAMATES, ARSENIC
FERTILIZER	LIQUID OR SOLID GRAINS	NITROGEN, PHOSPHOROUS
PLASTER	WHITE GRANULES OR POWDER	CALCIUM SULPHATE, CALCIUM CARBONATE, SULFURIC ACID
CLEANING SOLVENTS	COLORLESS, BLUE, OR YELLOW-GREEN LIQUID	PERCHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, PETROLEUM DISTILLATES
ASPHALT	BLACK SOLID	OIL, PETROLEUM DISTILLATES
CONCRETE	WHITE SOLID	LIMESTONE, SAND
GLUE, ADHESIVES	WHITE OR YELLOW LIQUID	POLYMERS, EPOXES
PAINTS	VARIOUS COLORED LIQUID	METAL OXIDES, STODDARD SOLVENT, TALC, CALCIUM CARBONATE, ARSENIC, NAPHTHNA
CURING COMPOUNDS	CREAMY WHITE LIQUID	SOIL, OIL & GREASE, SOLIDS
WASTEWATER FROM CONSTRUCTION	WATER	SOIL, OIL & GREASE, SOLIDS
EQUIPMENT WASHING		SOIL, OIL & GREASE, SOLIDS
WOOD PRESERVATIVES	CLEAR AMBER OR DARK BROWN LIQUID	STODDARD SOLVENT, PETROLEUM DISTILLATES, ARSENIC, COPPER, CHROMIUM
HYDRAULIC OIL/FLUIDS	BROWN OILY PETROLEUM HYDROCARBON	MINERAL OIL
GASOLINE	COLORLESS, PALE BROWN OR PINK PETROLEUM HYDROCARBON	BENZENE, ETHYL BENZENE, TOLUENE, XYLENE, MTBE
DIESEL FUEL	CLEAR, BLUE-GREEN TO YELLOW LIQUID	PETROLEUM DISTILLATE, OIL & GREASE, NAPHTHALENE, XYLENES
KEROSENE	PALE YELLOW LIQUID PETROLEUM HYDROCARBON	COAL OIL, PETROLEUM DISTILLATES
ANTIFREEZE/COOLANT	CLEAR GREEN/YELLOW LIQUID	ETHYLENE GLYCOL, PROPYLENE GLYCOL, HEAVY METALS (COPPER, LEAD, ZINC)
EROSION	SOLID PARTICLES	SOIL, SEDIMENT

NOTE: THIS LIST CONTAINS POSSIBLE CONTAMINANTS TO STORMWATER RUNOFF DURING CONSTRUCTION. OTHER CONTAMINANTS AND IS BY NO MEANS COMPLETE. ALL SPILLS OF POSSIBLE CONTAMINANTS SHOULD BE CLEANED UP IMMEDIATELY AFTER SPILL AND CONTAMINANT MATERIALS USED TO CLEAN UP SPILLS SHOULD BE DISPOSED OF IN AN APPROPRIATE MANNER.



- INLET SEDIMENT CONTROL DEVICE - SILT SACK - TYPE D**
- NOT TO SCALE**
- NOTES:**
1. TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS AND JUNCTION BOXES.
  2. "SILTSAK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC OR APPROVED EQUAL.
  3. SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
  4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET.
  5. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL.
- INSPECTION AND MAINTENANCE:**  
INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/2-INCHES OR MORE OF RAIN. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. 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 PUMP 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 DRAIN INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

Revision No. Date Description By MM


**SWPPP NOTES and DETAILS**

PREPARED FOR

**BRICKHOPE SELF STORAGE**

CITY OF GOOSE CREEK, BERKELEY COUNTY, SOUTH CAROLINA

DATE: February 1, 2020

**McCORMICK and ASSOCIATES OF S.C., INC.**  
CIVIL ENGINEERS

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Project No: 571 Drawing No. C14 of C11

**McCormick and Associates of S.C., Inc.**  
No. 19486

McCormick and Associates of S.C., Inc.  
Professional Engineer No. 19486

# OVERALL STORMWATER POLLUTION PREVENTION PLAN

**SITE DESCRIPTION**  
PROJECT AREA 8.1 ACRES PLATTED  
AREA DISTURBED 3.1 ACRES TOTAL

## DESCRIPTION OF CONSTRUCTION ACTIVITY

- WORK CONSISTS OF GRADING, STORM DRAINAGE IMPROVEMENTS, GRASSING, INSTALLATION OF WATER SANITARY SEWER, BUILDING AND PARKING AREAS TO SUPPORT THE STORAGE DEVELOPMENT.

## RUNOFF DATA

- SOIL CLASSIFICATION:
- LAND USE - COMMERCIAL DEVELOPMENT
- RUNOFF RATES, DETENTION, ETC. TREATED IN ONSITE PREVIOUSLY PERMITTED FACILITIES.

## RECEIVING WATERS

CLOSEST RECEIVING WATERBODY:  
ULTIMATE RECEIVING WATER:

**FLOOD DATA**  
FEMA ZONE X

## SWPPP CONTROL MEASURES

- A. EROSION AND SEDIMENT CONTROLS**  
PRIOR TO START OF CONSTRUCTION, ALL SILT FENCING ON SWPPP WILL BE INSTALLED AS LOCATED ON THE PLAN.
- CLEARING**
    - AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCING WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS BECOME CHANNELIZED, AND OTHER POINTS WHERE EXCESSIVE VELOCITIES MAY OCCUR.
    - INSTALL CONSTRUCTION ENTRANCES/EXITS PRIOR TO CLEARING.
    - CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF ROUGH GRADING WILL REQUIRE STABILIZATION PROCEDURES, MULCHING AND SEEDING ARE REQUIRED.
    - MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE DISTURBED AREA.
    - RETAIN AND PROTECT ALL EXISTING TREES ON THE SWPPP.
    - INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UPSLOPE SOIL DISTURBING ACTIVITIES.
    - PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE DISTURBED AREAS.
    - MAINTAIN ALL PROTECT ALL WATERWAYS AND WETLANDS. RETAIN ATLEAST A 20' NATURAL BUFFER ALONG ALL WATERWAYS AND WETLANDS TO FILTER OUT SEDIMENT.
    - INSTALL SILT FENCE ON THE DOWNSLOPE OF ALL DISTURBED AREAS PRIOR TO DISTURBING ANY SOIL. SILT FENCE CAN BE TREATED AT A MAXIMUM 100 SFEET PER FOOT OF FENCE. TURNED UP SLOPES, SWALES AND SHORELAND AREAS SHOULD ALSO BE PROTECTED WITH SILT FENCE, BIO ROLLS OR ROCK SOCKS.
    - IN AREAS OF CONCENTRATED FLOW INSTALL CHECK DAMS, DIKES, BIO BLANKETS OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT.
    - USE TEMP. SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.
    - CONSTRUCT SEDIMENT BASINS FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
  - ROUGH GRADING**
    - ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING, DELAYS OF GREATER THAN 14 DAYS WILL REQUIRE STABILIZATION MEASURES. THESE ARE SEEDING OR MULCHING.
    - ALL AREAS NOT SUBJECT TO FURTHER CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER SYSTEMS, OR STORM WATER) SHALL BE GRASSED WITH PERMANENT SOLO.
    - COVER ANY STOCK PILED TOPSOIL WITH PLASTIC OR A TEMPORARY MIX. USE STOCKPILE SOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.
  - DRAINAGE**
    - ALL EXISTING CONTROLS WILL BE MAINTAINED THROUGH CONSTRUCTION.
    - CONSTRUCTION DRAINAGE WILL BE ROUTED THOUGH OFFSITE LAKES, WHICH WILL ACT AS SEDIMENT BASINS OR TRAPS.
    - INLET PROTECTION AS SHOWN ON THE DETAIL SHEET SHALL BE INSTALLED ON ALL CURB INLETS, MANHOLES, JUNCTION BOXES AND CATCH BASINS.
    - DELAYS OF GREATER THAN 14 DAYS WILL REQUIRE SEEDING OR MULCHING
    - ALL STORM LINES NOT IN STREETS OR OTHER PAVED AREAS ARE TO MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL IS INSTALLED.
  - WATER SYSTEM INSTALLATION**
    - ALL EXISTING CONTROLS SHALL BE MAINTAINED DURING INSTALLATION OF THE WATER SYSTEM
    - DELAYS OF GREATER THAN 14 DAYS WILL REQUIRE SEEDING OR MULCHING.
  - SEWER SYSTEM INSTALLATION**
    - ALL EXISTING CONTROLS SHALL BE MAINTAINED DURING INSTALLATION OF THE SEWER SYSTEM
    - DELAYS OF GREATER THAN 14 DAYS WILL REQUIRE SEEDING OR MULCHING.
  - CONSTRUCTION OF ROADS**
    - ALL EXISTING CONTROLS SHALL BE MAINTAINED DURING INSTALLATION OF THE ROADWAY SYSTEM
    - DELAYS OF GREATER THAN 14 DAYS WILL REQUIRE SEEDING OR MULCHING.
  - GRASSING**
    - ALL EXISTING CONTROLS SHALL BE MAINTAINED UNTIL GRASSING IS INSTALLED.
    - ANY AREAS THAT ERODE OR WHERE GRASS IS NOT ESTABLISHED SHALL BE REGRADED AND REGRASSED.
    - SEE GRASSING SPECIFICATIONS FOR INFORMATION.
  - STORM WATER MANAGEMENT**
    - RUNOFF FROM PROJECT WILL DISCHARGE INTO A ONSITE STORM WATER MANAGEMENT SYSTEM AND TREATMENT WILL OCCUR IN STORMWATER DETENTION POND.
  - OTHER CONTROLS**
    - WASTE DISPOSAL**
      - NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS.
      - OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.
      - THIS PLAN SHALL COMPLY WITH STATE AND LOCAL WATER DISPOSAL, SEWER OR SEPTIC REGULATIONS.
    - DUST CONTROL OF DISTURBED AREAS--CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE**
      - AND HAUL ROUTES, THE PURPOSE OF THE MEASURE TO REDUCE THE PRESENCE OF AIRBORN, WHICH MAY BE HARMFUL TO HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR TO PLANT LIFE.

## SWPPP CONSTRUCTION MAINTENANCE PROCEDURES

- A. MAINTENANCE PROGRAM**
- ALL BMPs AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE OS-SWPPP MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS REQUIRED BY SECTION 4.2 IDENTIFY BMPs THAT ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED WITHIN SEVEN (7) CALENDAR DAYS, BEFORE THE NEXT INSPECTION, OR AS REASONABLY POSSIBLE, AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORMWATER CONTROLS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN A TIME FRAME OF 48 HOURS OF IDENTIFICATION. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT 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 OS-SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENTATION BASINS MUST BE REMOVED AS INDICATED IN THE OS-SWPPP OR WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT, WHICH EVER OCCURS FIRST. SEDIMENT COLLECTED BY SILT FENCE, OR ANOTHER SEDIMENT CONTROL MEASURE, MUST BE REMOVED WHEN THE DEPOSITED SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE ABOVE-GROUND PORTION OF THESE BMPs, OR BEFORE IT REACHES A LOWER HEIGHT BASED ON THE MANUFACTURER'S SPECIFICATIONS.
  - THE SITE SUPERINTENDENT SHALL MAKE VISUAL INSPECTIONS OF ALL CONTROLS AND DISTURBED AREAS DAILY, AFTER ANY HEAVY RAINFALL TO INSURE ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGES TO THE SYSTEM SHALL BE REPAIRED PRIOR TO THE END OF WORKDAY. RE-SEED OR RE-MULCH DAMAGED AREAS AS REQUIRED.
  - SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING SHALL BE PROMPTLY REPAIRED. CLEAN OUT THE SILT FENCE WHEN 0.5' IF SEDIMENT HAS BEEN TRAPPED OR REPLACE WITH FUNCTIONING SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE DRAINAGE SYSTEM IS NOT ACCEPTABLE.
  - SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR NEAR 50% SHALL BE REEXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.
  - SEDIMENT LOGS OR ROLLS WHICH BEGIN TO DISINTEGRATE OR NOT FUNCTION CORRECTLY SHALL BE PROMPTLY REPLACED.
  - ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED SHALL BE IMMEDIATELY REPLACED.
  - MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY ACCUMULATED MUD.

## REQUIREMENT OF INSPECTION REPORTS.

- A. SCOPE.** CONSTRUCTION SITE INSPECTIONS ARE TO BE CONDUCTED ON A ROUTINE BASIS, AS OUTLINED IN SECTION 4.2.B, AND MUST INCLUDE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY, INCLUDING PERIMETER BMPs AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. EACH INSPECTION MUST LOOK FOR THE EVIDENCE OF, OR THE POTENTIAL FOR, INEFFICIENCIES WITHIN THE IMPLEMENTED OS-SWPPP, WHETHER THE INEFFICIENCIES ARE A DIRECT RESULT OF IMPROPER DESIGN, INSTALLATION OR MAINTENANCE, BY INSPECTING, AT A MINIMUM, THE FOLLOWING:
- ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION;
  - ALL STORMWATER CONVEYANCE SYSTEMS FOR ANY EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THESE SYSTEMS;
  - ALL BMPs IDENTIFIED IN THE OS-SWPPP;
  - ALL DISCHARGE LOCATIONS TO ASCERTAIN WHETHER THE IMPLEMENTED BMPs ARE EFFECTIVE IN PREVENTING THE DISCHARGE OF SEDIMENT FROM THE SITE, WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY LOCATIONS MUST BE INSPECTED TO THE EXTENT THAT SUCH INSPECTIONS ARE PRACTICABLE AND;
  - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

IF INSPECTION RESPONSIBILITIES ARE NOT SHARED BETWEEN THE PRIMARY AND SECONDARY PERMITEES, EACH SECONDARY PERMITEE MUST PROVIDE THEIR OWN INSPECTIONS FOR THE PORTIONS OF THE SITE FOR WHICH THEIR COVERAGE INCLUDES.

- B. FREQUENCY.** 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. AN INSPECTION IS RECOMMENDED WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- INSPECTION FREQUENCIES FOR PORTIONS OF THE CONSTRUCTION SITE THAT HAVE REACHED TEMPORARY OR FINAL STABILIZATION MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH, AS LONG AS THE STABILIZATION IS MAINTAINED AND THERE IS NO ADDITIONAL DISTURBANCE IN THESE AREAS. ONCE A DEFINABLE AREA HAS REACHED FINAL STABILIZATION, YOU MAY MARK THIS ON YOUR ON-SITE SWPPP AND NO FURTHER INSPECTION REQUIREMENTS APPLY TO THAT PORTION OF THE SITE (E.G., LAND-DISTURBING ACTIVITIES AROUND ONE OF THREE BUILDINGS IN A COMPLEX ARE COMPLETED AND THE DISTURBED AREA HAS REACHED FINAL STABILIZATION, ONE MILE OF A ROADWAY OR PIPELINE PROJECT IS COMPLETED AND THE DISTURBED AREA HAS REACHED FINAL STABILIZATION, ETC). INSPECTION OF COMMON BMPs, SUCH AS SEDIMENT BASINS, SEDIMENT TRAPS, MAY BE REQUIRED TO RESUME IF AREAS THAT DRAIN TO THEM BECOME DISTURBED DURING FUTURE CONSTRUCTION.
- C. RAIN GAUGE.** PERMITEES SHALL EITHER MAINTAIN AN ON-SITE RAIN GAUGE OR USE DATA FROM A CERTIFIED WEATHER RECORD (SUCH AS A PERSONAL WEATHER STATION OR AN AIRPORT) LOCATED WITHIN A REASONABLE PROXIMITY OF THE CONSTRUCTION SITE, TO RECORD RAINFALL RECORDS FROM ANY SIGNIFICANT RAINFALL EVENT, 0.5 INCHES OR GREATER. THESE RECORDED RAINFALL AMOUNTS MUST BE MAINTAINED IN A RAIN LOG LOCATED IN THE ON-SITE SWPPP. RAINFALL RECORDS FOR THE DAY OF AN INSPECTION AND ANY SIGNIFICANT RAINFALL EVENTS SINCE THE LAST INSPECTION MUST BE REPORTED ON EACH WEEKLY INSPECTION REPORT.
- D. INSPECTOR QUALIFICATIONS.** INSPECTIONS MUST BE CONDUCTED BY QUALIFIED PERSONNEL (PROVIDED BY THE PERMITEE) AS OUTLINED BY THE FOLLOWING:
- FOR PROJECTS THAT DISTURB MORE THAN 2 ACRES, "QUALIFIED PERSONNEL" MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PROCEDURES OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY BMPs SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGE FROM THE CONSTRUCTION SITE. THIS PERSON MUST BE EITHER THE PREPARER OF THE C-SWPPP OR AN INDIVIDUAL WHO IS UNDER THE DIRECT SUPERVISION OF THE PREPARER OF THE APPROVED C-SWPPP AND WHO MEETS THE REQUIREMENTS IN THIS PARAGRAPH OR AN INDIVIDUAL WHO HAS BEEN APPROVED THROUGH A CONSTRUCTION SITE INSPECTOR CERTIFICATION COURSE THAT HAS BEEN APPROVED BY DHEC. INSPECTIONS MAY ALSO BE CONDUCTED BY A PERSON WITH A REGISTRATION EQUIVALENT TO THE REGISTRATION OF THE PREPARER OF THE SWPPP AND WHO MEETS THE QUALIFICATIONS OF THIS PARAGRAPH OR AN INDIVIDUAL WHO IS UNDER THE DIRECT SUPERVISION OF THE PERSON WITH AN EQUIVALENT REGISTRATION AND WHO MEETS THE REQUIREMENTS IN THIS PARAGRAPH.
  - FOR PROJECTS THAT DISTURB 2 ACRES OR LESS, AND THAT ARE NOT PART OF A LARGER COMMON PLAN, THE PERMITEE OR HIS DESIGNEE MAY PERFORM THESE INSPECTIONS PROVIDED THE PREPARER OF THE C-SWPPP OR SOMEONE WITH A REGISTRATION EQUIVALENT TO THAT OF THE PREPARER OF THE SWPPP EXPLAINS THE OS-SWPPP INCLUDING IMPLEMENTATION ALONG WITH THE INSPECTION REQUIREMENTS TO THE PERSON WHO WILL BE CONDUCTING THE INSPECTIONS.
  - THE DEPARTMENT AND REGULATED MSAS RESERVES THE RIGHT TO REQUIRE THAT INSPECTIONS BE PERFORMED BY AN INSPECTOR MEETING THE REQUIREMENTS OF 4.2.E.I FOR CONSTRUCTION SITES LESS THAN TWO.
- E. INSPECTION REPORTS.** FOR EACH INSPECTION REQUIRED ABOVE, YOU MUST COMPLETE AN INSPECTION REPORT. AT A MINIMUM, THE INSPECTION REPORT MUST INCLUDE:
- THE INSPECTION DATE;
  - NAMES, TITLES, AND, IF NOT PREVIOUSLY GIVEN IN AN INSPECTION REPORT, THE QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, UNLESS THOSE QUALIFICATIONS CHANGE;
  - WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) 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 YOU KNOW IF ANY DISCHARGES OCCURRED, AT THE VERY LEAST, THE TOTAL RAINFALL (IN INCHES) SINCE THE TIME OF THE LAST INSPECTION MUST BE RECORDED;
  - WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
  - LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
  - LOCATION(S) OF BMPs THAT NEED MAINTENANCE;
  - LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
  - LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION;
  - CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE OS-SWPPP NECESSARY AND IMPLEMENTATION DATES;
  - SITE NAME, OPERATOR NAME AND PERMIT NUMBER; AND
  - VERIFICATION THAT ALL BMPs AND STORMWATER CONTROLS IDENTIFIED IN THE OS-SWPPP HAVE BEEN INSTALLED AND ARE OPERATING AS DESIGNED.
- F. MONTHLY REPORTS.** DHEC MAY REQUIRE ON A CASE-BY-CASE BASIS THAT THE PERMITEE SUBMIT A MONTHLY REPORT SUMMARIZING THE INSPECTIONS AT THE SITE AND ANY ASSOCIATED MAINTENANCE ACTIVITY.
- G. INSPECTION RECORDS.** A RECORD OF EACH INSPECTION AND OF ANY ACTIONS TAKEN IN ACCORDANCE WITH THIS SECTION MUST BE RETAINED AS PART OF THE ON-SITE SWPPP FOR AT LEAST THREE YEARS FROM THE DATE THAT PERMIT COVERAGE EXPIRES OR IS TERMINATED, THE QUALIFIED INSPECTOR, AS IDENTIFIED IN SECTION 4.2.E.2, MUST SIGN THE INSPECTION REPORT.
- H. PRIMARY PERMITEES.** INSPECTORS EMPLOYED BY THE PRIMARY PERMITEE RETAIN THE AUTHORITY TO INSPECT, REPORT, AND DOCUMENT AREAS OF THE CONSTRUCTION SITE THAT ARE UNDER DIRECT CONTROL OF THE SECONDARY PERMITEE, BUT ONLY WHEN A LACK OF COMPLIANCE BY THE SECONDARY PERMITEE INHIBITS THE PRIMARY PERMITEE'S ABILITY TO MAINTAIN COMPLIANCE WITH THE OVERALL OS-SWPPP OR THIS PERMIT.

## REVISION TO SWPPP AS RESULT OF INSPECTIONS

REVISIONS TO THE SWPPP AS A RESULT OF INSPECTIONS SHALL BE DOCUMENTED WITH REQUIRED CHANGES, REASON FOR THE CHANGES, AND SIGNATURES OF THE INSPECTOR AND OPERATOR RECOMMENDING/INITIATING REVISIONS. REVISIONS TO THE SWPPP SHOULD BE INCLUDED ON THE NEXT MONTHLY SUBMITTAL TO SCDHEC.

## PROCESS FOR UPDATING SWPPP

THIS SWPPP SHALL BE UPDATED WHEN CHANGES NEED TO BE MADE DURING THE CONSTRUCTION PROCESS INCLUDING THE ADDITION OF ANY CONTROL MEASURES OR PROCEDURES. THESE CHANGES WILL BE MADE BY THE APPROPRIATE PERSONNEL AND CHANGES SHOULD BE SIGNED BY EACH OPERATOR AND CONTRACTOR CONDUCTING WORK ON THE SITE.

## RECORDING OF MAJOR ACTIVITIES

RECORDS OF MAJOR CONSTRUCTION EVENTS SHOULD BE KEPT. THESE RECORDS SHOULD INCLUDE:

- DATE OF INSTALLATION OF SEDIMENT AND EROSION
- DATES OF MAJOR GRADING ACTIVITIES
- DATES OF INITIATION OF BUILDING CONSTRUCTION
- DATES WHEN CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES
- DATES WHEN STABILIZATION IS INITIATED AND LOCATION OF THOSE AREAS THAT ARE STABILIZED.

## REQUIRED CERTIFICATIONS

COPIES OF ALL CERTIFICATIONS SHOULD BE KEPT WITH COPIES OF THE INSPECTION REPORTS, APPROPRIATE PERMITS, AND A COPY OF THE CONSTRUCTION PLANS. AT MINIMUM THE FOLLOWING CERTIFICATIONS SHOULD BE OBTAINED:

- OWNER CERTIFICATION**
- CONTRACTOR'S CERTIFICATION** - ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN TO PERFORM CONSTRUCTION RELATED WORK INTENDED TO DISTURB SOILS AT THE SITE THAT MAY AFFECT THE IMPLEMENTATION OF THE SWPPP BUT WHO WILL NOT BE CO-PERMITEES MUST SIGN THE CONTRACTOR'S CERTIFICATION
- CO-PERMITEE CERTIFICATION** - ALL CONTRACTORS AND SUBCONTRACTORS AND ANY OTHERS LISTED AS CO-PERMITEES MUST SIGN A COPY OF THE CO-PERMITEE CERTIFICATION

## LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER MANAGEMENT SYSTEM

THE ROADS AND DRAINAGE SYSTEM OF REFUEL 18 SHALL BE MAINTAINED BY THE OWNER. OFFSITE DRAINAGE COMPONENTS IN PUBLIC DRAINAGE EASEMENTS SHALL BE MAINTAINED BY THE CITY OR CHARLESTON AND THE DANIEL ISLAND COMPANY.

## SCDHEC STANDARD NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 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 BELOW.
  - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
  - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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 SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 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 THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCRI00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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 EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
  - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
  - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
  - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 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.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT 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.
- 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.

## EROSION AND SEDIMENTATION AND POLLUTION CONTROL NOTES:

- THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THE SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADS.
- THE FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS, DURING THE CONSTRUCTION PERIOD. THESE FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT DOES NOT LEAVE THE SITE.
- THE FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED PER THE SCHEDULE.
- THE FACILITIES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF A ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A MAJOR STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT INTO THE DOWNSYSTEM SYSTEM
- 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.
- BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY, THE EXISTING STORM WATER INLET RECEIVING RUNOFF FROM THE PROPOSED WORK AREA SHALL BE PROTECTED. THE TEMPORARY INLET PROTECTION MUST REMAIN IN PLACE UNTIL THE ACTIVITY IS COMPLETED, STREET CLEANED, TEMPORARY PROTECTION OF THE INLETS MAY BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING:
  - USE OF GRAVEL BAGS TO FILTER SEDIMENT FROM RUNOFF; TO MAKE A GRAVEL BAG, USE A BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH EITHER 3/4" ROCK OR 1/4" PEA GRAVEL
  - USE OF SEDIMENT LOGS TO FILTER THE SEDIMENT FROM ANY RUNOFF
  - USE OF ABOVE OR UNDER-GRATE FILTER BAGS OR DEVICES TO FILTER SEDIMENT FROM RUNOFF
- WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION, SEDIMENTATION OR FLOODING ON THE SITE, OR DOWNSYSTEM PROPERTIES, IN RECEIVING CHANNELS, OR IN ANY INLET. WHEN SITE DEWATERING, WATER PUMPED FROM THE SITE SHALL BE TREATED BY ONE OF THE FOLLOWING:
  - TEMPORARY SEDIMENTATION BASINS
  - SEDIMENT FILTERING BAGS
- THE CONTRACTOR SHALL FLUSH ALL INLETS AND PIPES AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPES SHALL BE CONSIDERED PART OF THE COST FOR THE PROJECT.
- EGRESS FROM THE SITE SHALL BE CONTROLLED SUCH THAT VEHICLES LEAVING THE SITE MUST TRAVERSE THE CONSTRUCTION EXITS TO REMOVE MUD.
- SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.
- EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY FIELD CONDITIONS. AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT, EROSION MEASURES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AN INDEFINITE LENGTH OF TIME, ALL DISTURBED AREAS SHALL BE PLANTED WITH VEGETATION.
- SITE DRAINAGE SHALL BE POSITIVE AND NO DRAINAGE SHALL POND OR POOL ONSITE.

## POTENTIAL POLLUTANTS AND SOURCES OF CONTAMINATION

- SIGNIFICANT MATERIAL INVENTORY
  - POLLUTANTS FROM CLEARING, GRADING, EXCAVATION, FILL ACTIVITIES, BUILDING CONSTRUCTION, AND PAVING ACTIVITIES HAVE THE POTENTIAL TO BE PRESENT IN STORMWATER RUNOFF FROM THE CONSTRUCTION SITE. TABLE 1 INCLUDES INFORMATION ON MATERIAL TYPES, CHEMICAL AND PHYSICAL DESCRIPTIONS.
- POTENTIAL AREAS FOR STORMWATER CONTAMINATION
  - THE FOLLOWING POTENTIAL SOURCES OF STORM WATER CONTAMINATION WERE IDENTIFIED:
    - CLEARED AREAS
    - BUILDING CONSTRUCTION AREAS
    - CONSTRUCTION SITE ENTRANCES
    - ASPHALT PARKING CONSTRUCTION AREAS
- SUMMARY OF AVAILABLE STORM WATER SAMPLING DATA
  - NO STORM WATER SAMPLING DATA IS AVAILABLE FOR THE SITE.

## ALLOWABLE NON-STORM WATER DISCHARGES

THE FOLLOWING ARE ALLOWABLE NON-STORM WATER DISCHARGES:

- DISCHARGES FROM FIRE FIGHTING ACTIVITIES
- FIRE HYDRANT FLUSHINGS
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
- WATER USED TO CONTROL DUST IN ACCORDANCE WITH SCRI00000 SUBPART 3-4.4
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS
- ROUTINE EXTERNAL BUILDING WAS DOWN THAT DOES NOT USE DETERGENTS
- PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
- UNCONTAMINATED AIR CONDITIONS OR COMPRESSOR CONDENSATE
- UNCONTAMINATED GROUND WATER OR SPRING WATER
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS
- UNCONTAMINATED EXCAVATION DEWATERING
- LANDSCAPE IRRIGATION

THE NON-STORM WATER DISCHARGES LISTED ABOVE SHALL BE ROUTED SUCH THAT THEY DO NOT CAUSE UNNECESSARY EROSION OR SEDIMENT DISCHARGE FROM THE SITE. IF THESE DISCHARGE HAVE THE POTENTIAL TO CARRY SEDIMENT, THE DISCHARGE SHALL BE ROUTED THROUGH AN APPROPRIATE BMP TO ALLOW THE SEDIMENT TO SETTLE OUT BEFORE LEAVING THE SITE.

## PRE-CONSTRUCTION CONFERENCE

- PROJECTS THAT DISTURB 10 ACRES OR MORE A PRE-CONSTRUCTION CONFERENCE MUST BE CONDUCTED WITH EACH CO-PERMITEE, AND THE CONTRACTOR WHO IS NOT A CO-PERMITEE, IN PERSON AT THE SITE PRIOR TO THAT CO-PERMITEE OR CONTRACTOR PERFORMING CONSTRUCTION RELATED WORK INTENDED TO DISTURB SOILS AT THE SITE THAT MAY AFFECT THE IMPLEMENTATION OF THE SWPPP UNLESS IT IS JUSTIFIED IN THE SWPPP AND APPROVED BY THE SCDHEC/OCRM TO CONDUCT THE CONFERENCE OFF-SITE. THIS PRECONSTRUCTION CONFERENCE CAN BE WITH ALL CONTRACTORS OR THE PRE-CONSTRUCTION CONFERENCE MAY BE CONDUCTED SEPARATELY WITH ONE OR MORE CONTRACTORS PRESENT SO THAT ALL CONTRACTORS WHO PERFORM LAND DISTURBING ACTIVITY OR CONSTRUCTION ACTIVITY ARE AWARE OF THE REQUIREMENTS OF THE SWPPP BEFORE THEY START CONSTRUCTION.
- FOR SITES DISTURBING LESS THAN 10 ACRES, A PRECONSTRUCTION CONFERENCE IS RECOMMENDED BETWEEN THE OWNER, SITE CONTRACTOR AND SWPPP PREPARER.

## SWPPP NOTES

PREPARED FOR

# BRICKHOPE SELF STORAGE

CITY OF GOOSE CREEK, BERKELEY COUNTY, SOUTH CAROLINA

DATE: February 1, 2020

**McCORMICK and ASSOCIATES OF S.C., INC.**  
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Project No: 571 Drawing No. 011 of 011

Revision No.	Date	Description	By
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