

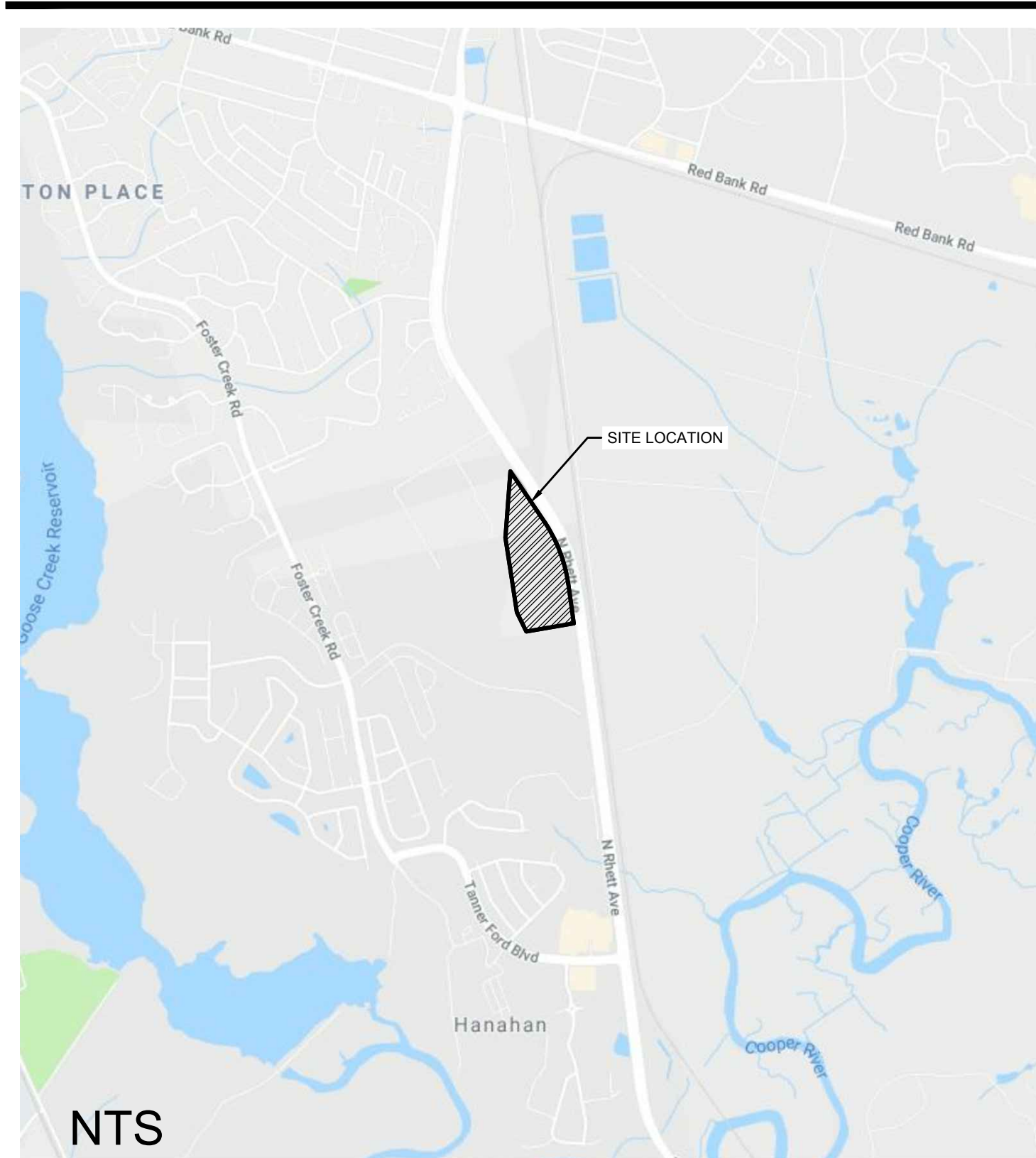
**REVISION 8**  
**DATE: 12/22/2022**

# HANAHAN RECREATION COMPLEX

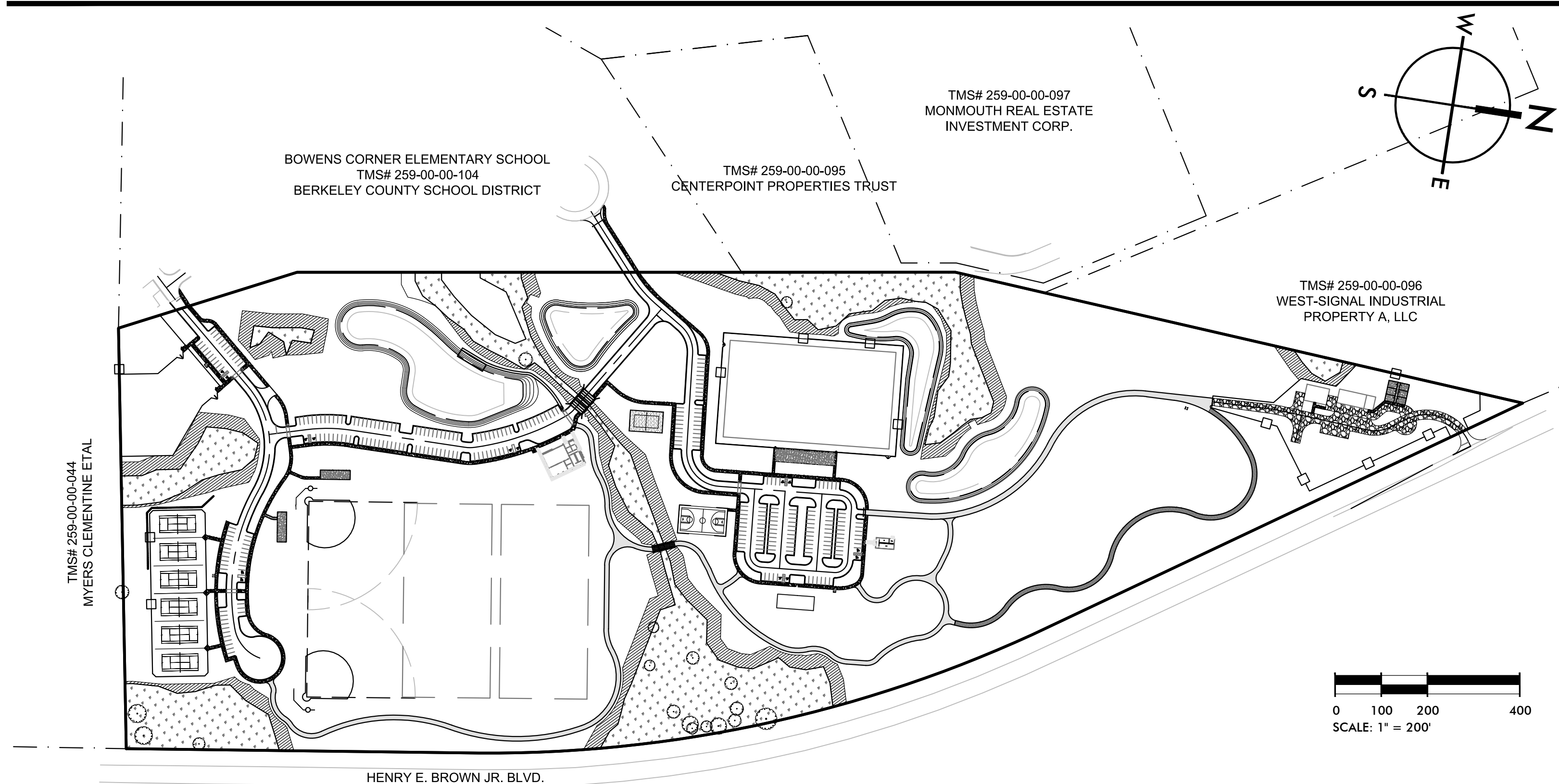
## HANAHAN, SOUTH CAROLINA

### TMS# 259-00-00-189

#### SITE LOCATION MAP



#### SITE OVERVIEW



#### PROJECT CONTACTS

**OWNER/DEVELOPER:**  
 CITY OF HANAHAN  
 1255 YEAMANS HALL ROAD  
 HANAHAN, SC 29410  
 CONTACT: MIKE COCHRAN  
 PHONE: 843-266-0958

**CIVIL ENGINEER:**  
 SEAMON WHITESIDE & ASSOCIATES  
 128 S. MAIN STREET, #B  
 SUMMERVILLE, SC 29483  
 CONTACT: TAYLOR HART, P.E.  
 PHONE: 843-972-0710 EXT 283

**MUNICIPALITY CONTACTS:**  
 CITY OF HANAHAN PLANNING & ZONING  
 CONTACT: JEFF HAJEK  
 PHONE: 843-554-4221

**UTILITY CONTACTS:**  
 BERKELEY COUNTY WATER & SEWER  
 CONTACT: RYAN GATLIN  
 PHONE: 843-719-2319

**BERKELEY COUNTY ENGINEERING/MS4**  
 CONTACT: SHAWN PULLEY  
 PHONE: 843-719-2321

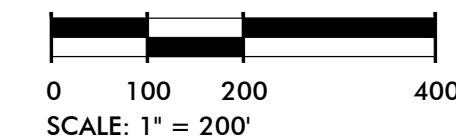
**CHARLESTON WATER SYSTEM**  
 CONTACT: LYDIA OWENS  
 PHONE: 843-727-6869

**SCDOT**  
 CONTACT: WADE GROOMS  
 PHONE: 843-746-6748 (EXT 748)

**SCDHEC-OCRM**  
 CONTACT: PAMELA WINKLER  
 PHONE: 843-953-5324

**SURVEYOR:**  
 SOUTHEASTERN LAND SURVEYING, LLC.  
 1035-B JENKINS ROAD  
 CHARLESTON, SC 29407  
 CONTACT: MIKE SCHMIEDER  
 PHONE: 843-795-9330

**CITY OF HANAHAN FIRE DEPARTMENT**  
 CONTACT: BO BOWERS  
 PHONE: 843-297-7870



SEE SHEET C1.1 FOR  
 DETAILED REVISION HISTORY

SEE ARCHITECT PLANS  
 FOR BUILDING SHEET INDEX

#### PROJECT DESCRIPTION

THE CITY OF HANAHAN PLANS TO DEVELOP A 53.31 ACRE TRACT OF LAND ON HENRY BROWN JR. BLVD. (FORMERLY N. RHETT BLVD.) INTO A NEW CITY PARK AND RECREATION COMPLEX. SITE IMPROVEMENTS WILL INCLUDE: STORMWATER PONDS, ASSOCIATED DRAINAGE INFRASTRUCTURE, SITE ACCESS ROADS, PARKING LOTS, MULTIPURPOSE ATHLETIC FIELDS, A SYNTHETIC TURF FOOTBALL/SOCCER FIELD, TENNIS COURTS, A SAND VOLLEYBALL COURT, A BASKETBALL COURT, A DOG PARK, TRAIL SYSTEM, RECREATION BUILDING, RESTROOM BUILDING, PICNIC PAVILION, MAINTENANCE AREA, WATER AND SEWER UTILITY EXTENSIONS, AND OTHER SITE ELEMENTS COMMONLY ASSOCIATED WITH A PARK.

#### GENERAL NOTES

**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN LAND SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**EXISTING UTILITIES WARNING:** THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.

**TOTAL SITE ACREAGE:** 53.31 ACRES

**TOTAL LAND DISTURBANCE:** 40.00 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

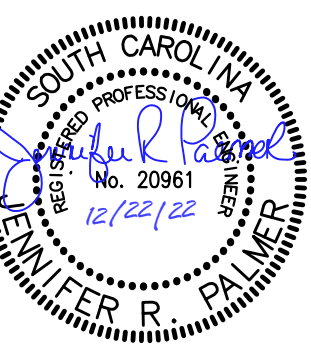
| Sheet List Table |                         |          |          |          |
|------------------|-------------------------|----------|----------|----------|
| Sheet Number     | Sheet Title             | 06/25/21 | 10/11/21 | 08/22/22 |
| C1.0             | TITLESHEET              | 5        | 6        | 7        |
| C1.1             | LEGEND & REVISION NOTES | 5        | 6        | 7        |
| C2.0             | EXISTING CONDITIONS     |          |          |          |
| C2.1             | EXISTING CONDITIONS     |          |          |          |
| C2.2             | EXISTING CONDITIONS     |          |          |          |
| C2.3             | WETLAND SURVEY          |          |          |          |
| C2.4             | WETLAND SURVEY          |          |          |          |
| C2.5             | WETLAND SURVEY          |          |          |          |
| C3.0             | SWPPP PLAN PHASE 1A     |          |          | 7        |
| C3.1             | SWPPP PLAN PHASE 1A     |          |          |          |
| C3.2             | SWPPP PLAN PHASE 1B     |          |          |          |
| C3.3             | SWPPP PLAN PHASE 1B     |          |          |          |
| C3.4             | SWPPP PLAN PHASE 2      |          |          |          |
| C3.5             | SWPPP PLAN PHASE 2      |          |          |          |
| C3.6             | SWPPP PLAN PHASE 3      |          |          | 7        |
| C3.7             | SWPPP PLAN PHASE 3      |          |          |          |
| C3.8             | SWPPP NOTES             |          |          |          |
| C3.9             | SWPPP DETAILS           |          |          |          |
| C3.10            | SWPPP DETAILS           |          |          |          |
| C3.11            | SWPPP DETAILS           |          |          |          |
| C4.0             | OVERALL SITE PLAN       |          |          |          |
| C4.1             | SITE PLAN               |          |          |          |
| C4.2             | SITE PLAN               |          | 6        | 7        |
| C4.3             | SITE PLAN               |          |          | 7        |
| C4.4             | SITE PLAN               |          | 6        | 8        |
| C5.0             | SITE DETAILS            |          |          |          |
| C5.1             | SITE DETAILS            |          |          |          |
| C5.2             | SITE DETAILS            |          |          |          |
| C6.0             | OVERALL GRADING PLAN    |          |          |          |
| C6.1             | GRADING PLAN            |          |          | 7        |

|       |                            |  |   |   |
|-------|----------------------------|--|---|---|
| C6.2  | GRADING PLAN               |  | 6 |   |
| C6.3  | GRADING PLAN               |  |   |   |
| C6.4  | GRADING PLAN               |  | 6 | 8 |
| C7.0  | OVERALL DRAINAGE PLAN      |  |   |   |
| C7.1  | DRAINAGE PLAN              |  |   |   |
| C7.2  | DRAINAGE PLAN              |  |   |   |
| C7.3  | DRAINAGE PLAN              |  |   |   |
| C7.4  | DRAINAGE PLAN              |  | 6 | 8 |
| C7.5  | DRAINAGE PROFILES          |  |   |   |
| C7.6  | DRAINAGE PROFILES          |  |   | 8 |
| C7.7  | DRAINAGE PROFILES          |  |   | 8 |
| C8.0  | GRADING & DRAINAGE DETAILS |  |   | 7 |
| C8.1  | GRADING & DRAINAGE DETAILS |  |   |   |
| C9.0  | OVERALL WATER & SEWER PLAN |  |   |   |
| C9.1  | WATER & SEWER PLAN         |  |   |   |
| C9.2  | WATER & SEWER PLAN         |  |   |   |
| C9.3  | WATER & SEWER PLAN         |  | 6 |   |
| C9.4  | WATER & SEWER PLAN         |  |   |   |
| C9.5  | WATER & SEWER PLAN         |  |   |   |
| C9.6  | WATER & SEWER PLAN         |  |   |   |
| C9.7  | WATER & SEWER PLAN         |  | 6 | 8 |
| C9.8  | WATER PROFILES             |  |   |   |
| C9.9  | WATER PROFILES             |  |   |   |
| C9.10 | WATER PROFILES             |  |   |   |
| C9.11 | SEWER PROFILES             |  | 6 |   |
| C9.12 | SEWER PROFILES             |  |   |   |
| C10.0 | SEWER DETAILS              |  |   |   |
| C10.1 | WATER DETAILS              |  |   |   |
| C10.2 | WATER DETAILS              |  |   |   |
| C10.3 | WATER DETAILS              |  |   |   |
| L1.0  | HARDSCAPE DETAILS          |  |   |   |
| L1.1  | HARDSCAPE DETAILS          |  |   |   |
| L1.2  | HARDSCAPE DETAILS          |  |   |   |
| L1.3  | HARDSCAPE DETAILS          |  | 6 |   |

|        |                                      |  |   |  |
|--------|--------------------------------------|--|---|--|
| L1.4   | HARDSCAPE DETAILS                    |  |   |  |
| L2.0   | LANDSCAPE PLAN                       |  |   |  |
| L2.1   | LANDSCAPE PLAN                       |  | 5 |  |
| L2.2   | LANDSCAPE PLAN                       |  |   |  |
| L2.3   | LANDSCAPE PLAN                       |  |   |  |
| L2.4   | PLANT SCHEDULE, DETAILS AND NOTES    |  |   |  |
| E1.1   | SITE ELECTRICAL PLAN                 |  |   |  |
| E1.2   | SITE ELECTRICAL PLAN                 |  |   |  |
| E1.3   | SITE ELECTRICAL PLAN                 |  |   |  |
| E2.1   | POWER DISTRIBUTION DETAILS           |  |   |  |
| E2.2   | LIGHTING & MISC. DETAILS             |  |   |  |
| E2.3   | POWER DISTRIBUTION DETAILS           |  |   |  |
| E2.4   | ELECTRICAL PANEL SCHEDULES & DETAILS |  |   |  |
| E2.5   | EXTERIOR EQUIPMENT MOUNTING DETAIL   |  |   |  |
| IR1.0  | IRRIGATION SHEET LAYOUT PLAN         |  |   |  |
| IR1.1  | IRRIGATION PLAN                      |  |   |  |
| IR1.2  | IRRIGATION PLAN                      |  |   |  |
| IR1.3  | IRRIGATION PLAN                      |  |   |  |
| IR1.4  | IRRIGATION PLAN                      |  |   |  |
| IR1.5  | IRRIGATION PLAN                      |  |   |  |
| IR1.6  | IRRIGATION PLAN                      |  |   |  |
| IR1.7  | IRRIGATION PLAN                      |  |   |  |
| IR1.8  | IRRIGATION PLAN                      |  |   |  |
| IR1.9  | IRRIGATION PLAN                      |  |   |  |
| IR1.10 | IRRIGATION PLAN, NOTES AND DETAILS   |  |   |  |
| IR1.11 | IRRIGATION DETAILS                   |  |   |  |
| IR1.12 | IRRIGATION DETAILS                   |  |   |  |
| SP1    | GENERAL SEPTIC NOTES                 |  |   |  |
| SP2    | SEPTIC SITE PLAN & LAYOUT            |  |   |  |
| SP3    | SEPTIC DETAILS                       |  |   |  |
| SP4    | SEPTIC DETAILS                       |  |   |  |
| SP5    | SEPTIC DETAILS                       |  |   |  |
| SP6    | SEPTIC DETAILS                       |  |   |  |



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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

| REVISION HISTORY |          |   |          |
|------------------|----------|---|----------|
| A                | 6/12/20  | 4 | 06/18/21 |
| B                | 10/29/20 | 5 | 06/25/21 |
| C                | 01/22/21 | 6 | 10/11/21 |
| D                | 03/11/21 | 7 | 08/22/22 |
| 1                | 03/26/21 | 8 | 12/22/22 |
| 2                | 04/01/21 |   |          |
| 3                | 05/11/21 |   |          |

TITLESHEET

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# DRAWING LEGEND

| OBJECTS AND SYMBOLS                | EXISTING | NEW                | OBJECTS AND SYMBOLS                              | EXISTING | NEW | ABBREVIATIONS                             | EXISTING  | NEW    | SWPP PLAN LEGEND   |  |
|------------------------------------|----------|--------------------|--|----------|-----|---|---|--------|--|--|
| Adjoining Property Line            |          | N/A                | Benchmark  |          | N/A | Sewer Easement                            | Ex. S.E.  | S.E.   | Turf Reinforcement Mat (See Turf and Grasses Species)                            |  |
| Centerline                         |          | (Same as Existing) | Sanitary Sewer Manhole                           |          | N/A | Storm Easement                            | Ex. W.E.  | W.E.   | Sodding (See Turf and Grasses Specs)   |  |
| Easement                           |          | (Same as Existing) | Sanitary Sewer Manhole ID #                      |          | N/A | General Utility Easement                  | Ex. G.U.E.  | G.U.E. | Surface Roughening (Surface Tracking/Stair Stepping-See Detail)                  |  |
| Sanitary Sewer (Gravity)           |          |                    | Double Sanitary Sewer Service (Residential Only) |          |     | Access Easement                           | Ex. A.E.  | A.E.   | Temporary Seeding (See Schedule in EC Notes)                                     |  |
| Sanitary Sewer (Force Main)        |          |                    | Single Sanitary Sewer Service (Residential Only) |          |     | Ingress/Egress Easement                   | Ex. I/E.E.  | I/E.E. | Permanent Seeding (See Turf and Grasses Species)                                 |  |
| Water Line                         |          |                    | TYPE 1 Storm Drainage Structure (CI-1)           |          |     | Pond Maintenance Easement                 | Ex. P.M.E.  | P.M.E. | Mulching (See Turf and Grasses Species)  |  |
| Curb & Gutter (Straight)           |          |                    | TYPE 16 Storm Drainage Structure (CI-16)         |          |     | Water Surface Elevation                   | Ex. W.S.E.  | W.S.E. | Typical Lot Erosion Control Plan (See Detail)                                    |  |
| Curb & Gutter (Roll)               |          |                    | TYPE 17 Storm Drainage Structure (Right) (CI-17) |          |     | Polyvinyl Chloride Pipe                   | Ex. PVC   | PVC    | Flexible Growth Medium (See Turf and Grasses Species)                            |  |
| Previous Phase Storm Drain Pipe    |          | N/A                | TYPE 17 Storm Drainage Structure (Left) (CI-17)  |          |     | Reinforced Concrete Pipe                  | Ex. RCP   | RCP    | Erosion Control Blanket (See Turf and Grasses Species)                           |  |
| Storm Drain Pipe                   |          |                    | TYPE 18 Storm Drainage Structure (CI-18)         |          |     | High Density Corrugated Polyethylene Pipe | Ex. HDPE  | HDPE   | Dust Control   |  |
| Roof Drain                         |          |                    | Catch Basin (CB)                                 |          |     | Ductile Iron Pipe                         | Ex. DIP   | DIP    | Bonded Fiber Matrix (See Turf and Grasses Species)                               |  |
| Subsurface Drainage                |          |                    | Isolation Box (IB)                               |          |     | Corrugated Metal Pipe                     | Ex. CMP   | CMP    | Concrete Washout Basin (See Detail)  |  |
| Silt Fence, Standard               |          |                    | Storm Drainage Junction Box (JB)                 |          |     | Home Owner's Association                  | Ex. HOA   | HOA    | Block & Stone Inlet Protection (See Detail)                                      |  |
| Silt Fence, Reinforced             |          |                    | Yard Inlet (YI)                                  |          |     | Property Owners Association               | Ex. POA   | POA    | Temp. Sediment Control Tube (See Tube)   |  |
| Phase Line                         | N/A      |                    | Control Structure (CS)                           |          |     | <b>HATCH PATTERNS</b>                     |   |        |  |  |
| Drainage Basin                     | N/A      |                    | Storm Drainage Structure ID #                    |          |     |   |   |        |  |  |
| Flood Zone                         |          | N/A                | Telephone Box                                    |          | N/A | Freshwater Wetland                        |   |        | Temp. Rock Ditch Checks (See Detail)   |  |
| Conduit                            |          |                    | Telephone Manhole                                |          | N/A | Freshwater Wetland Buffer                 |   |        | Turf Reinforcement Mat Outlet Protection (See Detail and Turf and Grasses Specs) |  |
| Natural Gas                        |          |                    | Electrical Box                                   |          | N/A | Saltwater Marsh                           |   |        | Filter Fabric Inlet Protection (See Detail)                                      |  |
| Overhead Electrical                |          |                    | Electrical Manhole                               |          | N/A | Saltwater Marsh Buffer                    |   |        | Temp. Curb Inlet Weep Filter (See Detail)  |  |
| Underground Electrical             |          |                    | Power Pole                                       |          | N/A | Limits of Disturbance                     |   |        | Curb Inlet Sediment Filter (See Detail)  |  |
| Underground Telephone              |          |                    | Light Pole                                       |          | N/A | Area to be Permanently Stabilized         |   |        | Both Curb Inlet Filters (See Above)  |  |
| Underground Cable                  |          |                    | Fire Hydrant Assembly                            |          |     | <b>REVISION SUMMARY</b>                   |   |        |  |  |
| Underground Fiber Optic            |          |                    | Water Blowoff                                    |          |     |   |   |        |  |  |
| Fence                              |          |                    | Water Line Bends, Angle Varies                   |          | N/A | A   | AGENCY SUBMITTALS: 06/12/2020                               | 6.     | REVISION 6 PLAN REVISIONS  |  |
| Elevation Contour                  |          |                    | Water Line Valve                                 |          |     | B.  | AGENCY RESUBMITTAL: 10/29/2020                              | 7.     | REVISION 7 PLAN REVISIONS  |  |
| Revision Cloud (Encloses Revision) | N/A      |                    | Water Line Reducer                               |          |     | C.  | AGENCY RESUBMITTAL: 01/22/2021                              | 8.     | REVISION 8 PLAN REVISIONS  |  |
|                                    |          |                    | Single Water Service (Residential Only)          |          |     | 0.  | BID SET: 03/11/2021   |        |  |  |
|                                    |          |                    | Double Water Service (Residential Only)          |          |     | 1.  | ADDENDUM 1: CWS RESUBMITTAL: 03/26/2021                     |        |  |  |
|                                    |          |                    | Sign   |          |     | 2.  | ADDENDUM 2: BIDDER QUESTIONS AND SCDOT COMMENTS: 04/01/2021 |        |  |  |
|                                    |          |                    | ADA Accessible Parking Space                     |          |     | 3.  | ISSUED FOR CONSTRUCTION: 05/11/21                           |        |  |  |
|                                    |          |                    | Spot Elevation                                   |          |     | 4.  | REVISION 4 OWNER REQUESTED CHANGES: 06/18/21                |        |  |  |
|                                    |          |                    | Watershed Area                                   |          |     | 5.  | REVISION 5 PLANTING SCHEDULE CLARIFICATION 06/25/2021       |        |  |  |
|                                    |          |                    | Detail ID #                                      |          |     |   |   |        |  |  |
|                                    |          |                    | Keynote  |          |     |   |   |        |  |  |
|                                    |          |                    | Parking Count ID #                               |          |     |   |   |        |  |  |
|                                    |          |                    | Lot #  |          |     |   |   |        |  |  |
|                                    |          |                    | Revision ID #                                    |          |     |   |   |        |  |  |
|                                    |          |                    | Rip Rap at Pipe Outlet                           |          |     |   |   |        |  |  |

**NOTE:**  
LEGEND DOES NOT APPLY TO EXISTING CONDITION SHEETS C2.0 - C2.2. THOSE SHEETS ARE SHOWN IN ORIGINAL FORMAT PROVIDED BY THE SURVEYOR

**REVISION SUMMARY**

- A. AGENCY SUBMITTALS: 06/12/2020
- B. AGENCY RESUBMITTAL: 10/29/2020
- C. AGENCY RESUBMITTAL: 01/22/2021
- 0. BID SET: 03/11/2021
- 1. ADDENDUM 1: CWS RESUBMITTAL: 03/26/2021
- SHEET C2.0-C2.5: OFFSITE PROPERTY LINES ADJUSTED.
- SHEET C6.2: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
- SHEET C7.2: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
- SHEET C7.5: WATER MAIN CROSSING LOCATION UPDATED, WATER SERVICE CROSSING ADDED.
- SHEET C9.0: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING.
- SHEET C9.1: CROSSING NEAR STA 4+20 EXTENDED TO 25'
- SHEET C9.2: CROSSING NEAR STA 4+20 EXTENDED TO 25'
- SHEET C9.3: INSTALLATION METHOD FOR WATER MAIN CROSSING WETLAND UPDATED, LABELS UPDATED, AND GATE VALVES RELOCATED.
- SHEET C9.4-C9.7: WATER MAIN STATIONS UPDATED BASED ON WETLAND CROSSING UPDATE.
- SHEET C9.8: PROFILE UPDATED BASED ON PLAN CHANGES.
- SHEET C9.9: PROFILE UPDATES BASED ON PLAN CHANGES.
- SHEET C9.10: PROFILE UPDATES BASED ON PLAN CHANGES.
- SHEET C10.3: HDD CONNECTION DETAILS REMOVED, JACK AND BORE DETAILS ADDED.
- SHEET L2.1: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
- 2. ADDENDUM 2: BIDDER QUESTIONS AND SCDOT COMMENTS: 04/01/2021
- SHEET C3.9: LABEL ADDED TO CONSTRUCTION ENTRANCE DETAIL
- SHEET C3.11: DETAIL UPDATED
- SHEET C4.0: OFOI LIST UPDATED.
- SHEET C4.4: LABEL UPDATED, NOTE ADDED PER SCDOT COMMENTS, MAINT. BUILDING LABEL UPDATED
- SHEET C5.1: NOTES UPDATED ON DETAILS 4 AND 5
- SHEET C5.2: DETAIL UPDATED
- SHEET C7.4: STRUCTURE E20 UPDATED FROM YI TO CB
- SHEET C8.0: DETAILS UPDATED
- SHEET L1.0: DETAILS UPDATED
- SHEET L1.2: DETAILS UPDATED
- SHEET IR1.0: NOTES UPDATED
- 3. ISSUED FOR CONSTRUCTION: 05/11/21
- SHEETS C7.0-C7.7: STORM PIPE INVERT ELEVATIONS UPDATED
- SHEETS C9.8-C9.9: WATER MAIN PROFILE UPDATED FOR STORM CROSSINGS
- 4. REVISION 4 OWNER REQUESTED CHANGES: 06/18/21
- SHEET C4.0: REMOVAL OF RECREATION BUILDINGS, RESTROOM BUILDING, AND PAVILION BUILDING FROM CONSTRUCTION CONTRACT
- SHEET C4.2: RECREATION CENTER AND PAVILION LABEL ADDED, BIKE RACK RELOCATED
- SHEET C4.3: BATHROOM LABEL ADDED
- SHEET C6.2: LABEL ADDED FOR PAD GRADES
- SHEET C6.3: LABEL ADDED FOR PAD GRADES
- SHEET C8.0: CATCH BASIN DETAIL UPDATED.
- SHEET C9.3: UPDATED CALLOUTS FOR FUTURE BUILDING CONNECTIONS
- SHEET C9.5: UPDATED CALLOUTS FOR FUTURE BUILDING CONNECTIONS
- 5. REVISION 5 PLANTING SCHEDULE CLARIFICATION 06/25/2021
- SHEET L2.1: PLANTS LABELED FOR INSTALLATION IN RELATION TO THE RECREATION BUILDING CONSTRUCTION

- 6. REVISION 6 PLAN REVISIONS
- SHEET C4.2: UPDATED CALLOUTS FOR BOARD WALK AND FISHING DOCK.
- SHEET C6.2: UPDATED BOARD WALK ELEVATIONS.
- SHEET C9.3: UPDATED MH5 AND MH6 RIM ELEVATIONS.
- SHEET C9.11: UPDATED MH5 AND MH6 RIM ELEVATIONS.
- SHEET L1.3: DETAILS UPDATED.
- SHEETS C4.4, C6.4, C7.4, & C9.7 UPDATED TRANSFORMER LOCATION AT MAINTENANCE SHELTER.
- 7. REVISION 7 PLAN REVISIONS
- SHEETS C4.2 & C4.3: MOVED LIGHT POLES AT TURF FIELD OUTSIDE OF FENCE.
- SHEETS C1.0 - C1.1: UPDATED SHEET INDEX AND REVISION NOTES.
- SHEETS C3.0, C4.3, C6.1, & C8.0: ADDED FLAT SWALE NEAR POND 1.
- 8. REVISION 8 PLAN REVISIONS
- SHEET C4.4 DIVIDED THE POLE BARN AND SLAB FOR AN ADDITIONAL DOG POUND STAFF BUILDING AREA & ADDED A GRAVEL TURNAROUND.
- SHEET C6.4 UPDATED GRADING AROUND THE DOG POUND BUILDING & THE GRAVEL TURNAROUND.
- SHEET C7.4 ADDED TWO YARD INLETS NEXT TO THE DOG POUND BUILDING.
- SHEET C7.6 E29 PROFILE
- SHEET C7.7 ADDED A PIPE AND A YARD INLET TO E16-E23 PROFILE
- SHEET C9.7 ADDED A SEWER SERVICE TO THE DOG POUND STAFF BUILDING.

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

| REV | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  | 4 06/18/21  |
| B   | 10/29/20 | 5 06/25/21  |
| C   | 01/22/21 | 6 10/11/21  |
| 0   | 03/11/21 | 7 08/22/22  |
| 1   | 03/26/21 | 8 12/22/22  |
| 2   | 04/01/21 |             |
| 3   | 05/11/21 |             |

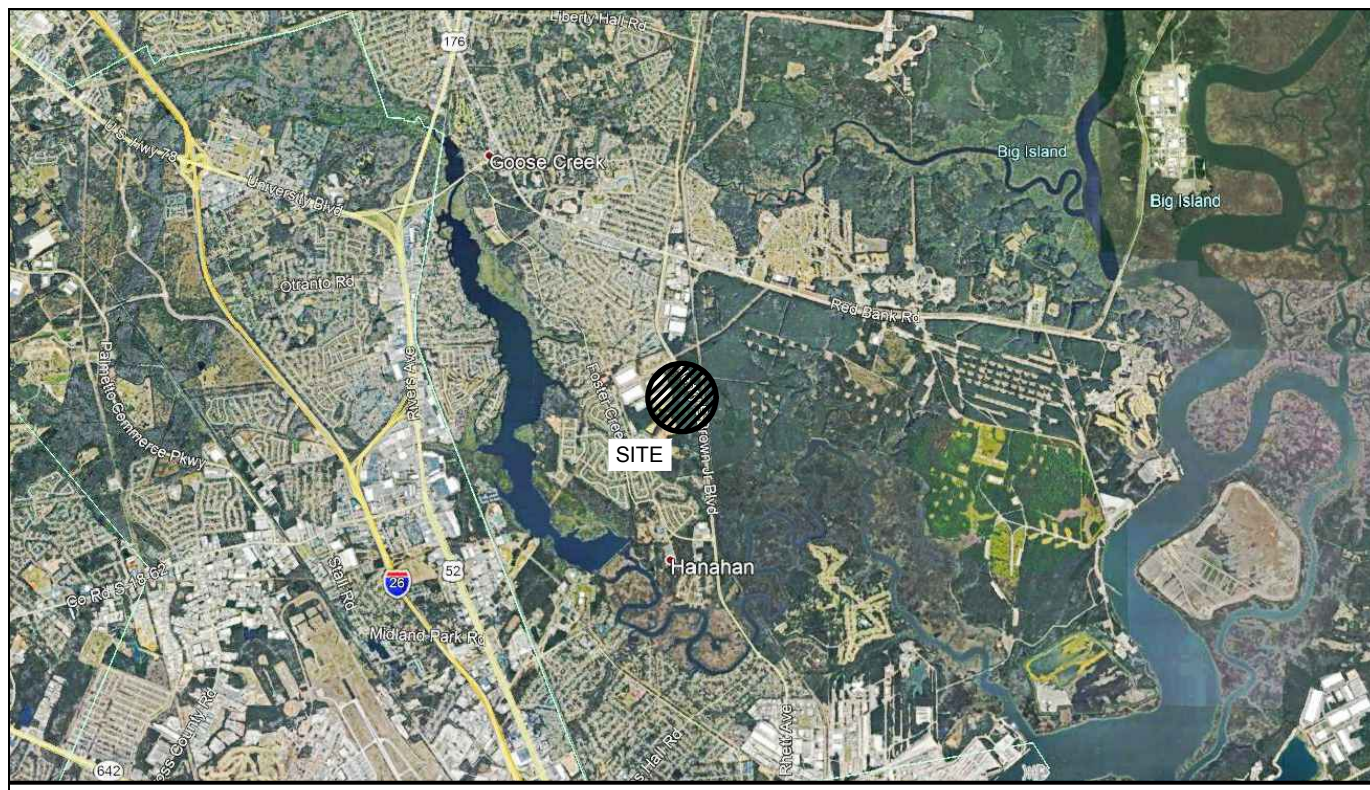
**LEGEND & REVISION NOTES**

**SEAMON, WHITESIDE & ASSOCIATES, INC.**

MOUNT PLEASANT, SC  
843.884.1667  
GREENVILLE, SC  
864.298.0534  
SUMMERVILLE, SC  
843.972.0710  
SPARTANBURG, SC  
864.298.0534  
CHARLOTTE, NC  
980.312.5450  
WWW.SEAMONWHITESIDE.COM

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA





VICINITY MAP (NOT TO SCALE)

| #    | SIZE          | SPECIES  |
|------|---------------|----------|
| 3023 | 8             | OAK      |
| 3026 | 8             | OAK      |
| 3027 | 8/3           | OAK      |
| 3033 | 10            | OAK      |
| 3035 | 8             | OAK      |
| 3038 | 12            | OAK      |
| 3041 | 9             | HICKORY  |
| 3043 | 7/6/4/7/4/6/5 | MAPLE    |
| 3051 | 16            | LIVE OAK |
| 3052 | 10/8          | MAPLE    |
| 3054 | 5/3/2         | HICKORY  |
| 3057 | 8             | HICKORY  |
| 3058 | 8/9           | MAPLE    |
| 3070 | 10            | HICKORY  |
| 3072 | 13            | HICKORY  |
| 3074 | 7/7           | HICKORY  |
| 3075 | 9             | HICKORY  |
| 3076 | 8             | HICKORY  |
| 3078 | 8             | HICKORY  |
| 3079 | 8/9           | HICKORY  |
| 3080 | 10            | OAK      |
| 3081 | 13            | HICKORY  |
| 3097 | 11            | OAK      |
| 3098 | 14            | HICKORY  |
| 3099 | 8             | OAK      |
| 3114 | 8/7/7/5       | OAK      |
| 3116 | 11/6          | HICKORY  |
| 3133 | 10            | OAK      |
| 3134 | 13            | HICKORY  |
| 3135 | 11            | HICKORY  |
| 3136 | 14            | OAK      |
| 3137 | 8             | OAK      |
| 3155 | 9             | MAPLE    |
| 3156 | 9             | OAK      |
| 3168 | 7/6/3/3/4     | OAK      |
| 3170 | 16            | OAK      |
| 3198 | 6/6/4         | OAK      |
| 3212 | 8             | OAK      |
| 3214 | 8             | OAK      |
| 3221 | 9             | HICKORY  |
| 3236 | 5/5           | HICKORY  |
| 3237 | 5/4/4         | MAPLE    |
| 3238 | 5/4/3/3       | OAK      |
| 3239 | 8             | OAK      |
| 3240 | 9             | HICKORY  |
| 3249 | 9             | OAK      |
| 3265 | 14            | LIVE OAK |
| 3273 | 13            | HICKORY  |
| 3281 | 3/6           | OAK      |
| 3287 | 7/6/4/4/2     | MAPLE    |
| 3307 | 4/6           | MAPLE    |
| 3312 | 5/4           | HICKORY  |
| 3339 | 9             | OAK      |
| 3356 | 7/5/5         | MAPLE    |
| 3363 | 4/3/5/3/3/8/4 | MAPLE    |
| 3365 | 9             | MAPLE    |
| 3371 | 10            | OAK      |
| 3372 | 15            | OAK      |
| 3377 | 11            | OAK      |
| 3381 | 10            | OAK      |
| 3386 | 10            | OAK      |
| 3387 | 10            | OAK      |
| 3388 | 13            | OAK      |
| 3396 | 5/4           | HICKORY  |
| 3417 | 8             | OAK      |
| 3419 | 14            | OAK      |

| #    | SIZE     | SPECIES |
|------|----------|---------|
| 3420 | 13       | OAK     |
| 3422 | 8        | OAK     |
| 3423 | 13       | OAK     |
| 3424 | 10       | OAK     |
| 3425 | 10/7     | OAK     |
| 3447 | 10       | OAK     |
| 3448 | 5/7/6    | HICKORY |
| 3450 | 16       | OAK     |
| 3451 | 12       | OAK     |
| 3461 | 9        | OAK     |
| 3467 | 9        | OAK     |
| 3469 | 10       | OAK     |
| 3471 | 13       | OAK     |
| 3472 | 8        | OAK     |
| 3473 | 10       | OAK     |
| 3474 | 8        | OAK     |
| 3477 | 13       | OAK     |
| 3478 | 8        | HICKORY |
| 3480 | 13       | OAK     |
| 3481 | 15       | OAK     |
| 3482 | 10       | OAK     |
| 3483 | 16       | OAK     |
| 3484 | 11       | OAK     |
| 3485 | 11       | OAK     |
| 3486 | 5/4      | OAK     |
| 3487 | 10       | OAK     |
| 3490 | 12       | OAK     |
| 3513 | 9        | OAK     |
| 3514 | 8        | OAK     |
| 3525 | 7/5/4/3  | MAPLE   |
| 3539 | 14       | OAK     |
| 3547 | 9        | OAK     |
| 3548 | 10       | OAK     |
| 3556 | 10/4/2   | OAK     |
| 3572 | 6/2      | OAK     |
| 3575 | 8        | OAK     |
| 3576 | 6/5/2    | OAK     |
| 3603 | 9        | OAK     |
| 3622 | 11/9/3/2 | MAPLE   |
| 3625 | 10       | MAPLE   |
| 3636 | 13/7     | MAPLE   |
| 3638 | 12/5     | MAPLE   |
| 3640 | 13/10    | MAPLE   |
| 3642 | 12       | OAK     |
| 3648 | 8        | OAK     |
| 3677 | 13       | OAK     |
| 3678 | 14       | OAK     |
| 3708 | 13       | OAK     |
| 3714 | 7/6      | OAK     |
| 3736 | 12       | OAK     |
| 3749 | 9        | OAK     |
| 3761 | 11       | MAPLE   |
| 3764 | 8        | OAK     |
| 3766 | 6/3      | OAK     |
| 3793 | 14/3     | MAPLE   |
| 3795 | 6/4      | HICK    |
| 3798 | 9/8/7/4  | MAPLE   |
| 3799 | 10       | MAPLE   |
| 3807 | 15       | OAK     |
| 3817 | 5/8      | MAPLE   |
| 3844 | 12       | OAK     |
| 3845 | 11/8/6   | MAPLE   |
| 3886 | 6/4      | OAK     |
| 3890 | 6/5/5    | MAPLE   |
| 3892 | 12       | OAK     |
| 3893 | 8/7      | OAK     |

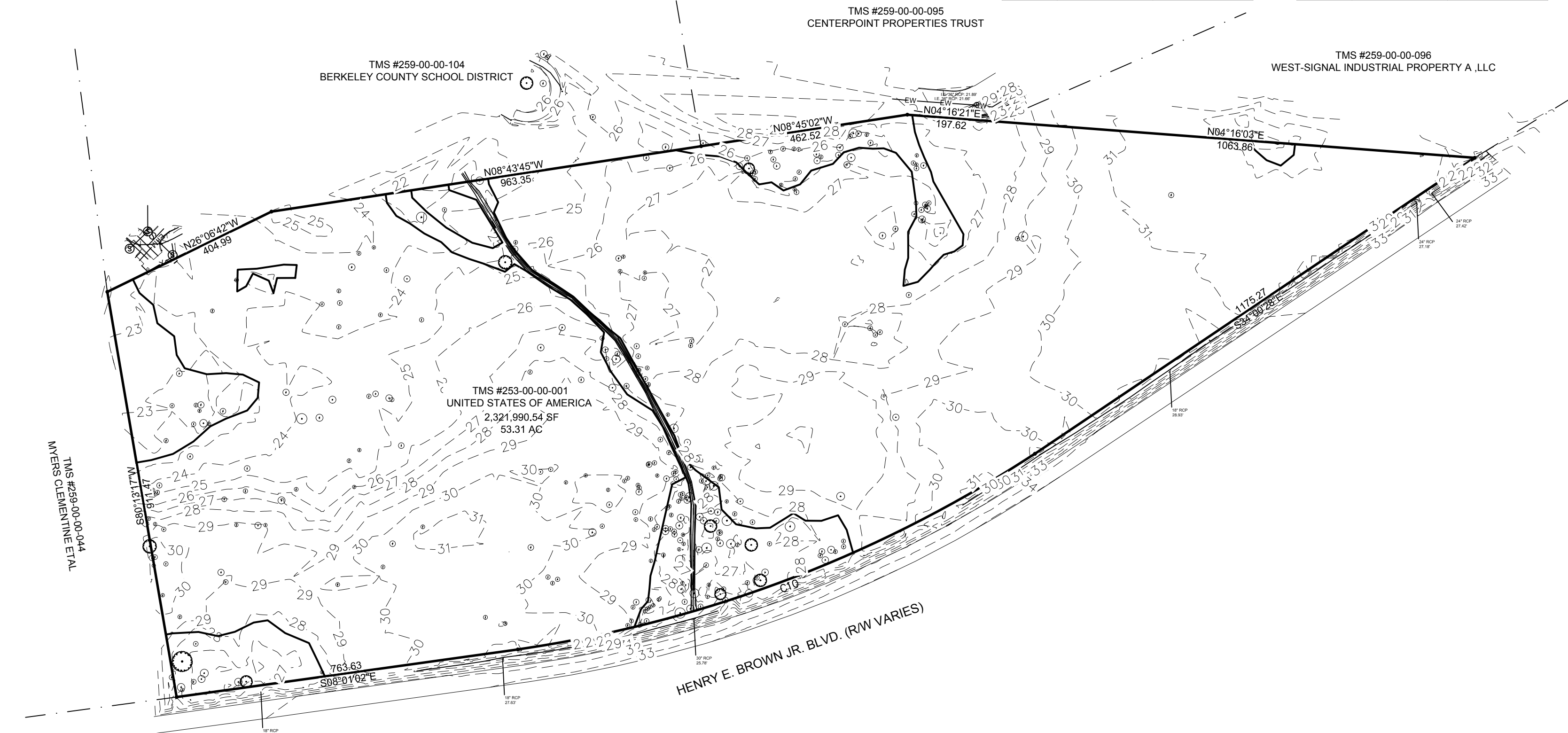
| #    | SIZE  | SPECIES |
|------|-------|---------|
| 5265 | 12    | OAK     |
| 5274 | 16    | OAK     |
| 5275 | 10    | OAK     |
| 5285 | 14    | OAK     |
| 5324 | 14/14 | OAK     |
| 5334 | 11    | OAK     |

| #    | SIZE       | SPECIES |
|------|------------|---------|
| 3895 | 11         | HICK    |
| 3896 | 9          | HICK    |
| 3897 | 9          | HICK    |
| 3900 | 6/3        | HICK    |
| 3901 | 8          | HICK    |
| 3925 | 14         | OAK     |
| 3929 | 7/3        | OAK     |
| 3949 | 11         | OAK     |
| 3967 | 14         | OAK     |
| 4100 | 12         | OAK     |
| 4101 | 15         | OAK     |
| 4121 | 11         | OAK     |
| 4122 | 13         | OAK     |
| 4124 | 10         | OAK     |
| 4125 | 8          | OAK     |
| 4141 | 8/6        | OAK     |
| 4142 | 3/9        | OAK     |
| 4192 | 12/3/2/2/2 | OAK     |
| 4193 | 10         | OAK     |
| 4236 | 7/5        | OAK     |
| 3724 | 18/10      | POPLAR  |
| 3693 | 10         | TUPELO  |
| 3930 | 6/5/4/5    | TUPELO  |
| 3489 | 9          | TUPELO  |
| 3491 | 10         | TUPELO  |
| 3511 | 8          | TUPELO  |
| 3515 | 10         | TUPELO  |
| 3524 | 8          | TUPELO  |

| #    | SIZE | SPECIES |
|------|------|---------|
| 3550 | 10   | TUPELO  |
| 3551 | 20   | TUPELO  |
| 3552 | 14   | TUPELO  |
| 3553 | 8    | TUPELO  |
| 3554 | 9    | TUPELO  |
| 3559 | 16   | TUPELO  |
| 3561 | 15   | TUPELO  |
| 3563 | 8    | TUPELO  |
| 3564 | 11   | TUPELO  |
| 3565 | 12   | TUPELO  |
| 3566 | 20   | TUPELO  |
| 3567 | 18   | TUPELO  |
| 3573 | 14   | TUPELO  |
| 3574 | 11   | TUPELO  |
| 3597 | 28   | TUPELO  |
| 3604 | 15   | TUPELO  |
| 3611 | 14   | TUPELO  |
| 3616 | 11   | TUPELO  |
| 3620 | 8    | TUPELO  |
| 3623 | 13   | TUPELO  |
| 3629 | 11   | TUPELO  |
| 3634 | 8    | TUPELO  |
| 3646 | 18   | TUPELO  |
| 3662 | 8    | TUPELO  |
| 3667 | 8    | TUPELO  |
| 3671 | 12   | TUPELO  |
| 3672 | 12   | TUPELO  |
| 3673 | 8    | TUPELO  |

| #    | SIZE      | SPECIES    |
|------|-----------|------------|
| 3680 | 11/4      | TUPELO     |
| 3694 | 9         | TUPELO     |
| 3711 | 13        | TUPELO     |
| 3712 | 14        | TUPELO     |
| 3713 | 14        | TUPELO     |
| 3716 | 11        | TUPELO     |
| 3846 | 10        | TUPELO     |
| 3848 | 11        | TUPELO     |
| 3850 | 8         | TUPELO     |
| 3877 | 13        | TUPELO     |
| 3928 | 15        | TUPELO     |
| 3931 | 7/3/3     | TUPELO     |
| 3932 | 8         | TUPELO     |
| 3933 | 12        | TUPELO     |
| 3946 | 11        | TUPELO     |
| 3947 | 10        | TUPELO     |
| 3974 | 18        | TUPELO     |
| 3600 | 22        | TUPELO     |
| 3891 | 22        | TUPELO     |
| 3046 | 4/7       | WILLOW OAK |
| 3077 | 13        | WILLOW OAK |
| 3220 | 15        | WILLOW OAK |
| 3222 | 5/4       | WILLOW OAK |
| 3445 | 10        | WILLOW OAK |
| 3475 | 10        | WILLOW OAK |
| 3512 | 13        | WILLOW OAK |
| 3658 | 21        | WILLOW OAK |
| 3709 | 10        | WILLOW OAK |
| 3710 | 17/5      | WILLOW OAK |
| 3843 | 15        | WILLOW OAK |
| 3847 | 5/7       | WILLOW OAK |
| 3888 | 15        | WILLOW OAK |
| 3894 | 7/2       | WILLOW OAK |
| 3898 | 13        | WILLOW OAK |
| 3899 | 14        | WILLOW OAK |
| 3902 | 10        | WILLOW OAK |
| 3903 | 10        | WILLOW OAK |
| 3904 | 8         | WILLOW OAK |
| 3905 | 11        | WILLOW OAK |
| 3906 | 8         | WILLOW OAK |
| 3927 | 13        | WILLOW OAK |
| 3948 | 11        | WILLOW OAK |
| 3024 | 10        | WATER OAK  |
| 3028 | 4/3/3/2   | WATER OAK  |
| 3029 | 9/8/5/5/3 | WATER OAK  |
| 3030 | 8         | WATER OAK  |
| 3031 | 8         | WATER OAK  |
| 3032 | 8         | WATER OAK  |
| 3036 | 8         | WATER OAK  |
| 3037 | 9         | WATER OAK  |
| 3059 | 11        | WATER OAK  |
| 3071 | 10        | WATER OAK  |
| 3176 | 4/3/2     | WATER OAK  |
| 3182 | 8         | WATER OAK  |
| 3197 | 5/5/3/3   | WATER OAK  |
| 3199 | 6/4/4     | WATER OAK  |
| 3213 | 5/4       | WATER OAK  |
| 3223 | 4/4/3     | WATER OAK  |
| 3224 | 5/4       | WATER OAK  |
| 3225 | 6/4       | WATER OAK  |
| 3226 | 6/4       | WATER OAK  |

| #    | SIZE  | SPECIES   |
|------|-------|-----------|
| 3250 | 7/5   | WATER OAK |
| 3262 | 8     | WATER OAK |
| 3263 | 5/6   | WATER OAK |
| 3272 | 5/4   | WATER OAK |
| 3313 | 6/4   | WATER OAK |
| 3382 | 8     | WATER OAK |
| 3446 | 13    | WATER OAK |
| 3449 | 7/4   | WATER OAK |
| 3468 | 9     | WATER OAK |
| 3470 | 6/5/3 | WATER OAK |
| 3476 | 8/3   | WATER OAK |
| 3479 | 9     | WATER OAK |
| 3517 | 6/6   | WATER OAK |
| 3518 | 7/4   | WATER OAK |
| 3519 | 9     | WATER OAK |
| 3521 | 6/4   | WATER OAK |
| 3522 | 6/5   | WATER OAK |
| 3523 | 8     | WATER OAK |
| 3536 | 7/4   | WATER OAK |
| 3537 | 14    | WATER OAK |
| 3543 | 5/5   | WATER OAK |
| 3544 | 9     | WATER OAK |
| 3569 | 10    | WATER OAK |
| 3571 | 10    | WATER OAK |
| 3596 | 15    | WATER OAK |
| 3707 | 3/5   | WATER OAK |
| 3720 | 8     | WATER OAK |
| 3721 | 10/10 | WATER OAK |
| 3728 | 8/2   | WATER OAK |
| 3754 | 8     | WATER OAK |
| 3757 | 9     | WATER OAK |
| 3758 | 9     | WATER OAK |
| 3759 | 8     | WATER OAK |
| 3762 | 9     | WATER OAK |
| 3763 | 5/4   | WATER OAK |
| 3765 | 13    | WATER OAK |
| 3767 | 8     | WATER OAK |
| 3768 | 8     | WATER OAK |
| 3849 | 9     | WATER OAK |
| 3885 | 9     | WATER OAK |
| 3887 | 6/3   | WATER OAK |
| 3889 | 6/4   | WATER OAK |
| 3926 | 7/7/4 | WATER OAK |
| 4092 | 12    | WATER OAK |
| 4123 | 8     | WATER OAK |
| 4143 | 3/6   | WATER OAK |
| 4144 | 2/8   | WATER OAK |
| 4145 | 12    | WATER OAK |
| 4146 | 9     | WATER OAK |
| 4149 | 12    | WATER OAK |
| 4150 | 16    | WATER OAK |
| 4151 | 8     | WATER OAK |



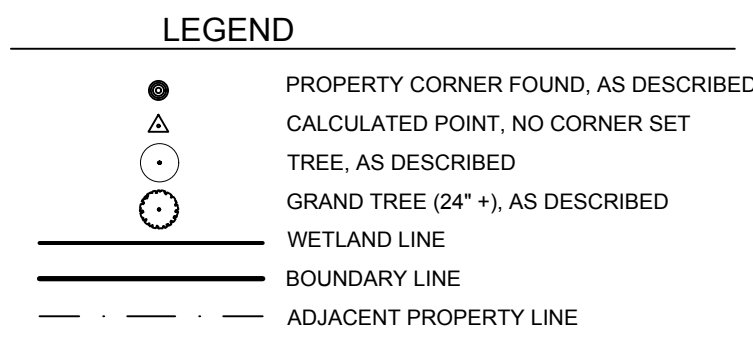
TMS #259-00-00-004  
MENS CLEMENTINE EVAL

HENRY E. BROWN JR. BLVD. (R/W VARIES)

REFERENCES:

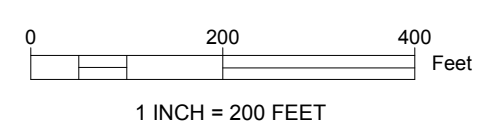
| PLAT BOOK | PAGE |
|-----------|------|
| CABO      | 265  |
| CABP      | 033  |
| CABP      | 317  |
| CABS      | 166  |

TMS #253-00-00-001



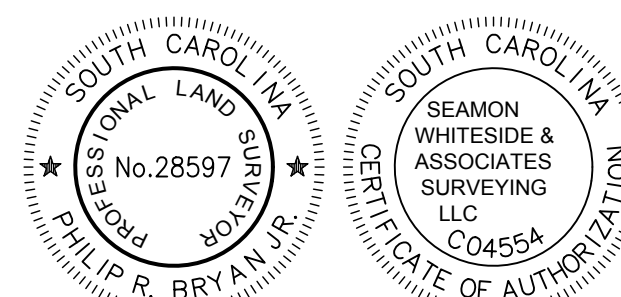
I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN.

PHILIP R. BRYAN, JR. S.C.P.L.S. No. 28597



NOTES:

- ANYTHING SHOWN OUTSIDE THE DEFINED BOUNDARY OF THIS PLAT IS FOR DESCRIPTIVE PURPOSES ONLY.
- AREA DETERMINED BY COORDINATE (DMD) METHOD.
- THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED AND NECESSARY FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH.
- BEARINGS ARE BASED ON SOUTH CAROLINA STATE PLANE NAD 1983.
- ALL ELEVATIONS ARE BASED ON NAVD 1988.
- PROPERTY IS LOCATED IN FLOOD ZONE X AS SCALED FROM F.I.R.M. PANEL NO. 45015C 0685E & NO. 45015C 0705E, EFFECTIVE DECEMBER 07, 2018.
- PROPERTY FLOOD ZONES AND SETBACKS SHOULD BE APPROVED BY THE APPROPRIATE AUTHORITY BEFORE ANY DESIGN OR CONSTRUCTION.
- THIS PROPERTY MAY BE SUBJECT TO VARIOUS UTILITY EASEMENTS THAT WERE NOT NOTED IN THE REFERENCED PLATS. THE UTILITIES SHOWN HEREON WERE BASED ON SURFACE LOCATIONS AND WERE NOT VERIFIED AS TO DEPTH, SIZE, OR MATERIAL. THIS SURVEY DOES NOT SHOW SUBTERRANEAN CONDITIONS.



| NO. | DATE       | DESCRIPTION           |
|-----|------------|-----------------------|
| 1   | 02-13-2020 | ADDITIONAL TOPO AREAS |
| 2   | 02-28-2020 | ADDED WATER LINE      |
| 3   | 10-01-2020 | UPDATED FLOOD PANELS  |

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

A TREE AND TOPOGRAPHICAL SURVEY OF  
 A PORTION OF TMS #253-00-00-001  
 OWNED BY THE UNITED STATES OF AMERICA  
 LOCATED IN THE CITY OF HANAHAN  
 BERKELEY COUNTY, SOUTH CAROLINA

DATE: 09-18-2018

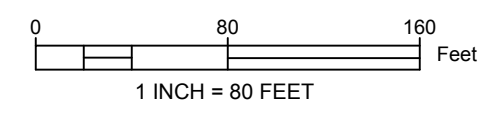
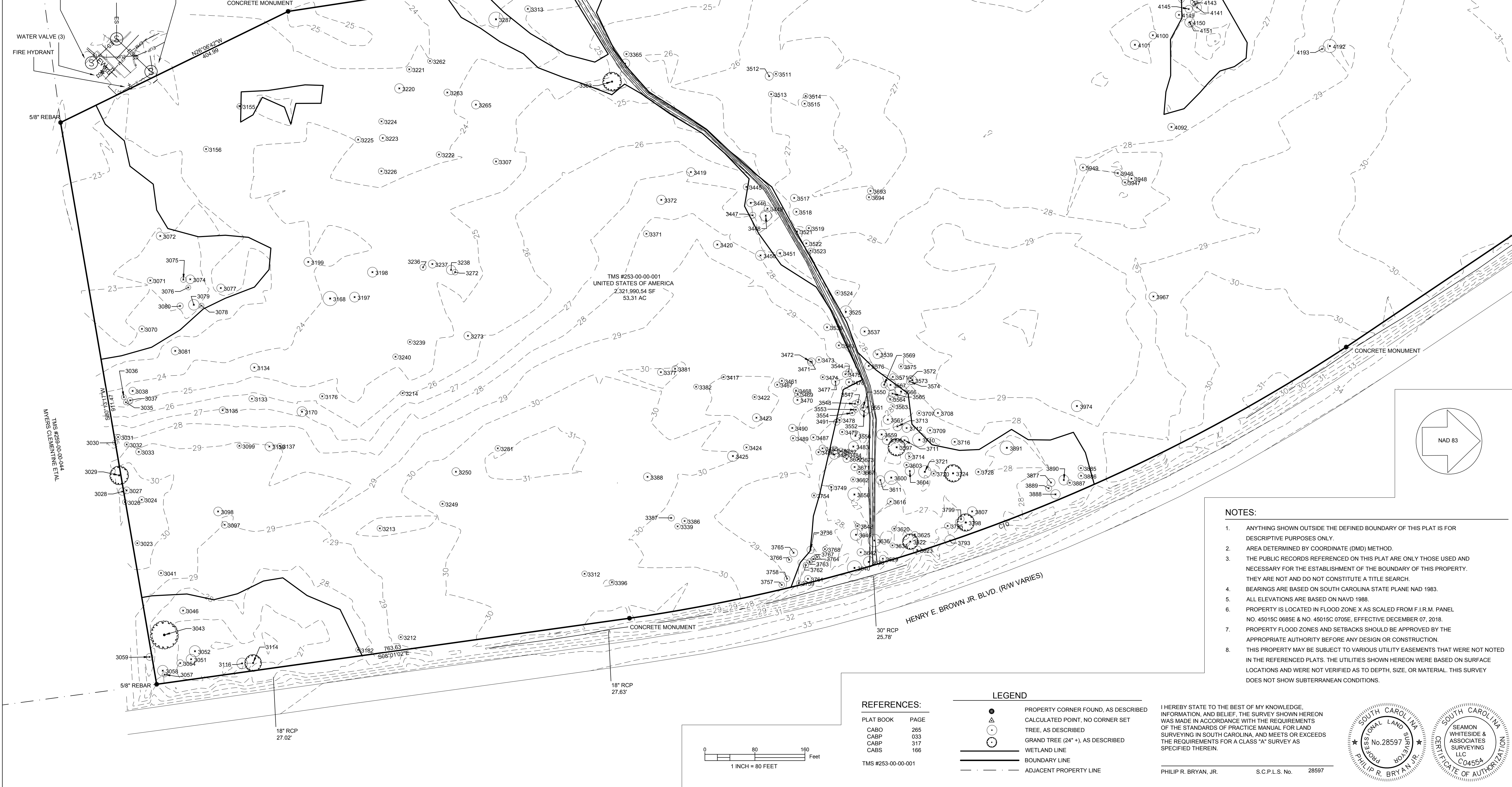
|        |          |
|--------|----------|
| DRAWN: | MAS      |
| CHECK: | PRB      |
| CC:    | SB       |
| JOB:   | 18088    |
| DWG:   | 18088T&T |
| SHEET: | 1 OF 3   |





VICINITY MAP (NOT TO SCALE)

SEWER MANHOLE RIM: 23.26' I.E.(IN): 10.70' I.E.(OUT): 10.57'  
 SEWER MANHOLE RIM: 23.86' I.E.(IN): 10.92' I.E.(OUT): 10.96'  
 SEWER MANHOLE RIM: 24.27' I.E.: 11.43' I.E.(OUT): 10.80'



**REFERENCES:**

| PLAT BOOK | PAGE |
|-----------|------|
| CABO      | 265  |
| CABP      | 033  |
| CABP      | 317  |
| CABS      | 166  |

TMS #253-00-00-001

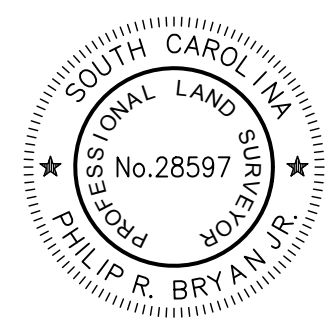
**LEGEND**

|  |                                     |
|--|-------------------------------------|
|  | PROPERTY CORNER FOUND, AS DESCRIBED |
|  | CALCULATED POINT, NO CORNER SET     |
|  | TREE, AS DESCRIBED                  |
|  | GRAND TREE (24" +), AS DESCRIBED    |
|  | WETLAND LINE                        |
|  | BOUNDARY LINE                       |
|  | ADJACENT PROPERTY LINE              |

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

PHILIP R. BRYAN, JR. S.C.P.L.S. No. 28597

- NOTES:**
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  2. AREA DETERMINED BY COORDINATE (DMD) METHOD.
  3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED AND NECESSARY FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH.
  4. BEARINGS ARE BASED ON SOUTH CAROLINA STATE PLANE NAD 1983.
  5. ALL ELEVATIONS ARE BASED ON NAVD 1988.
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| NO. | DATE       | DESCRIPTION           |
|-----|------------|-----------------------|
| 1   | 02-13-2020 | ADDITIONAL TOPO AREAS |
| 2   | 02-28-2020 | ADDED WATER LINE      |
| 3   | 10-01-2020 | UPDATED FLOOD PANELS  |

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

**A TREE AND TOPOGRAPHICAL SURVEY OF A PORTION OF TMS #253-00-00-001 OWNED BY THE UNITED STATES OF AMERICA LOCATED IN THE CITY OF HANAHAN BERKELEY COUNTY, SOUTH CAROLINA**

DATE: 09-18-2018

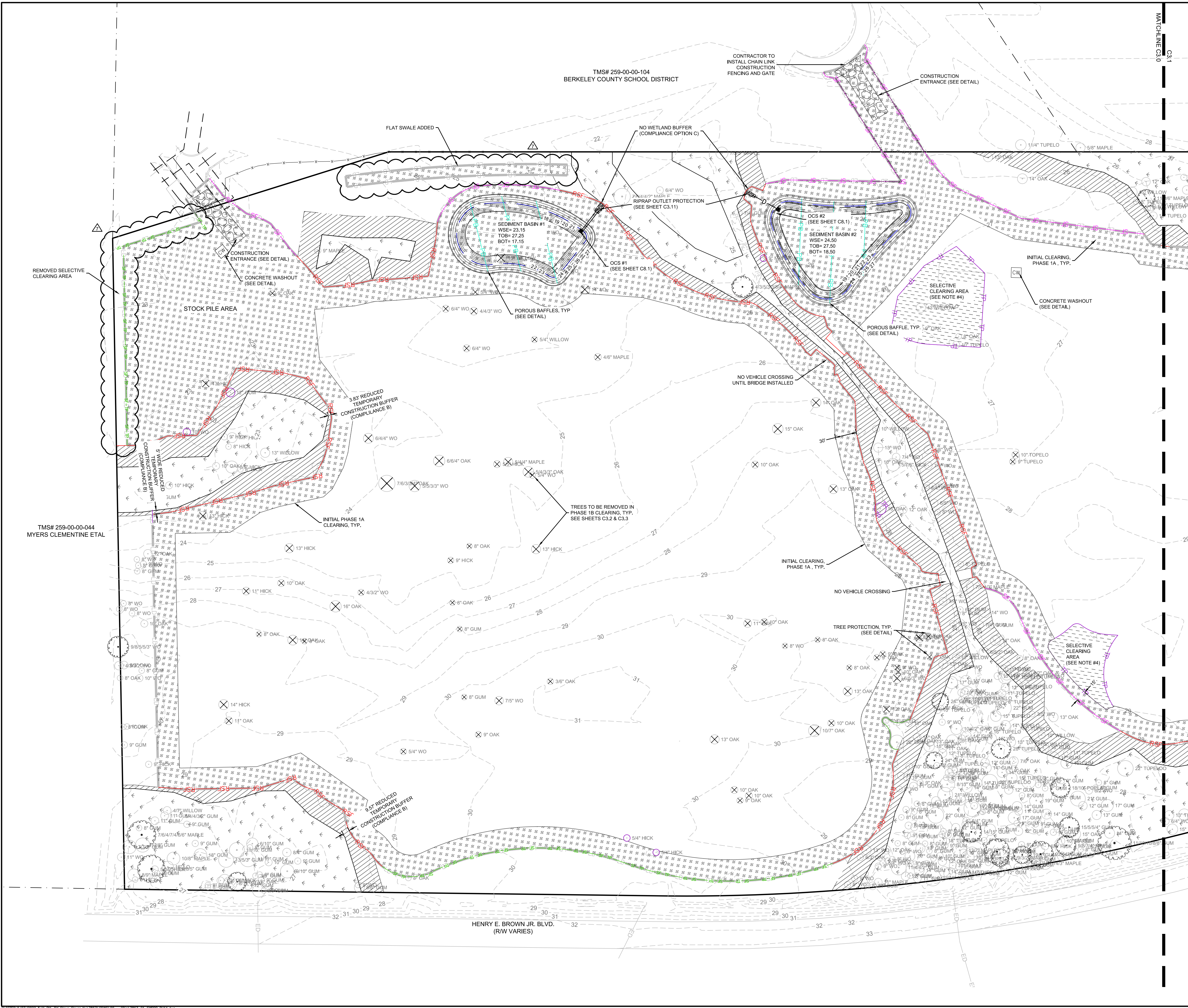
|        |          |
|--------|----------|
| DRAWN: | MAS      |
| CHECK: | PRB      |
| CC:    | SB       |
| JOB:   | 18088    |
| DWG:   | 18088T&T |
| SHEET: | 2 OF 3   |







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**LEGEND**

- SF SF SF SILT FENCE
- RSF RSF REINFORCED SILT FENCE
- PB PB PB POROUS BAFFLES
- LD LD LD LIMIT OF DISTURBANCE
- SF-TP SF-TP SF-TP SILT FENCE AND TREE PROTECTION
- TP TP TP TREE PROTECTION
- SELECTIVE CLEARING (SEE GENERAL NOTES #4)
- AREA OF LAND DISTURBANCE
- WETLAND- DO NOT DISTURB
- WETLAND BUFFER- DO NOT DISTURB
- INITIAL PHASE 1A CLEARING LIMITS
- CW CONCRETE WASHOUT

- GENERAL NOTES:**
- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. SUBSURFACE INVESTIGATION OF UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.
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  - THE CONTRACTOR SHALL MAINTAIN AND BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY.
  - SELECTIVE CLEARING NOTE: THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING DURING SWPPP - PHASE 2 IN ACCORDANCE WITH SPECIFICATION SECTION 311000 - SITE CLEARING AND EROSION CONTROL. CONTRACTOR AREAS SHALL BE REVIEWED BY THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF SELECTIVE CLEARING ACTIVITIES.
  - DO NOT DISTURB ANY ONSITE WETLANDS OR WETLAND BUFFER.

**NOTES:**

- ALL SEDIMENT CONTROL BMP'S LOCATED IN THE INITIAL CLEARING AND GRUBBING AREA SHALL BE INSTALLED AS PART OF THE PHASE 1A SWPPP. BMP'S LOCATED OUTSIDE OF THE INITIAL CLEARING AND GRUBBING AREA SHALL BE INSTALLED AS PART OF THE PHASE 1B SWPPP.

TOTAL TREE INCHES REMOVED: 644"

SEE PLANTING PLANS FOR FINAL STABILIZATION

**DISTURBED ACREAGE**

**40.0 ACRES**

SEE SHEET C1.1 FOR LEGEND AND SHEETS C3.8 - C3.11 FOR SWPPP NOTES AND DETAILS.

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**811**

Know what's below.  
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SCALE: 1" = 60'

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SEAMON WHITESIDE

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 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

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 PROFESSIONAL ENGINEER  
 STATE OF SOUTH CAROLINA

**SEAMON, WHITESIDE & ASSOCIATES, INC.**  
 No. 20961  
 11/27/22  
 PROFESSIONAL LANDSCAPE ARCHITECT  
 STATE OF SOUTH CAROLINA

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

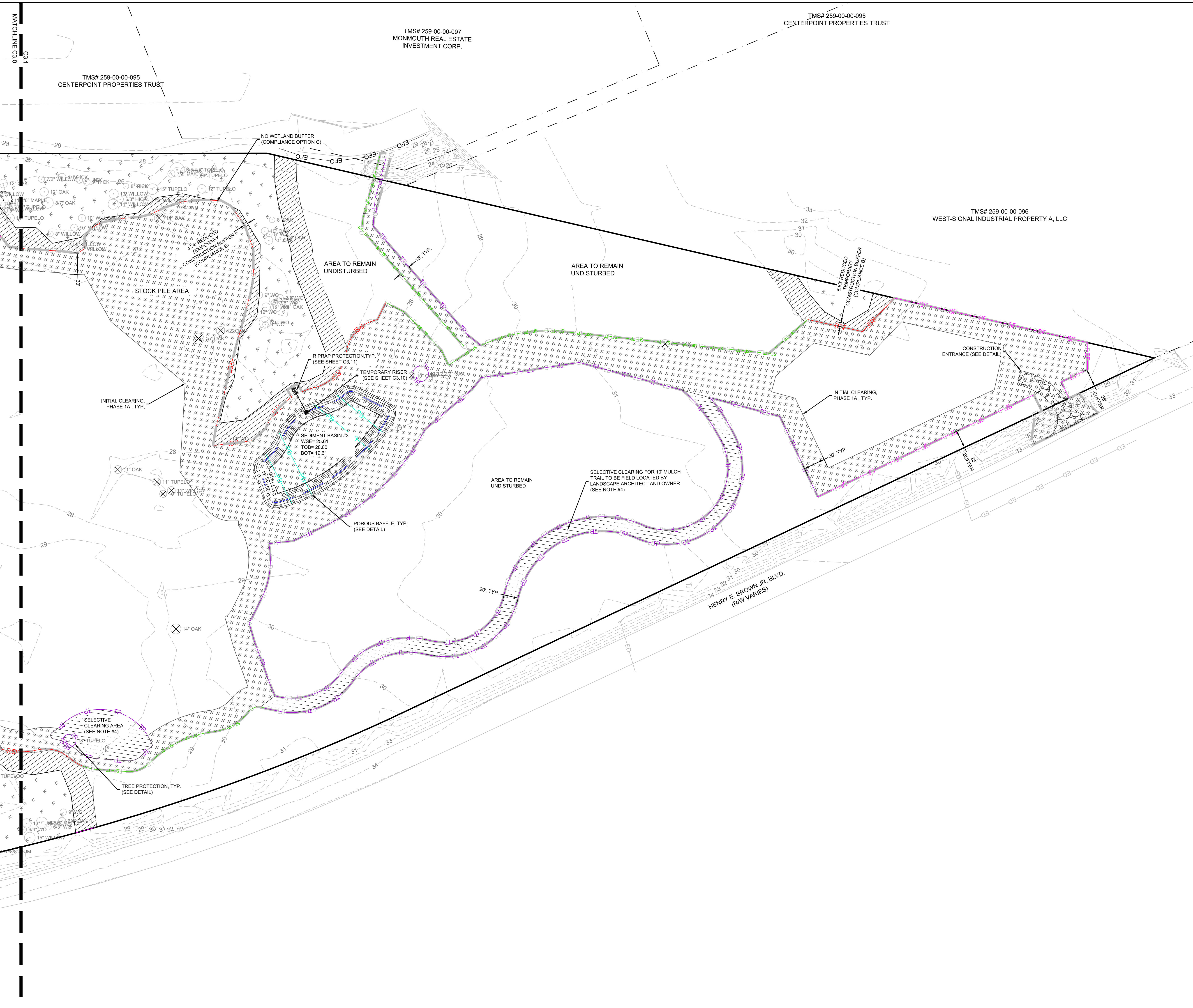
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| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |
| E | 08/22/22 |

SWPPP PLAN  
PHASE 1A

C3.0



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**LEGEND**

|  |   |
|--|---|
|  | SILT FENCE                                |
|  | REINFORCED SILT FENCE                     |
|  | POROUS BAFFLES                            |
|  | LIMIT OF DISTURBANCE                      |
|  | SILT FENCE AND TREE PROTECTION            |
|  | TREE PROTECTION                           |
|  | SELECTIVE CLEARING (SEE GENERAL NOTES #4) |
|  | AREA OF LAND DISTURBANCE                  |
|  | WETLAND- DO NOT DISTURB                   |
|  | WETLAND BUFFER- DO NOT DISTURB            |
|  | INITIAL PHASE 1A CLEARING LIMITS          |
|  | CONCRETE WASHOUT                          |

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  - DO NOT DISTURB ANY ONSITE WETLANDS OR WETLAND BUFFER.

**NOTES:**

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TOTAL TREE INCHES REMOVED: 644

SEE PLANTING PLANS FOR FINAL STABILIZATION

**DISTURBED ACREAGE**

**40.0 ACRES**

SEE SHEET C1.1 FOR LEGEND AND SHEETS C3.8 - C3.11 FOR SWPPP NOTES AND DETAILS.

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Call before you dig.

SCALE: 1" = 60'

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SUMMERVILLE, SC 843.972.0710  
SPARTANBURG, SC 864.298.0534  
CHARLOTTE, NC 980.312.5450  
WWW.SEAMONWHITESIDE.COM

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No. C00472  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF SOUTH CAROLINA

**SEAMON, WHITESIDE & ASSOCIATES, INC.**  
No. 20961  
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
STATE OF SOUTH CAROLINA

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

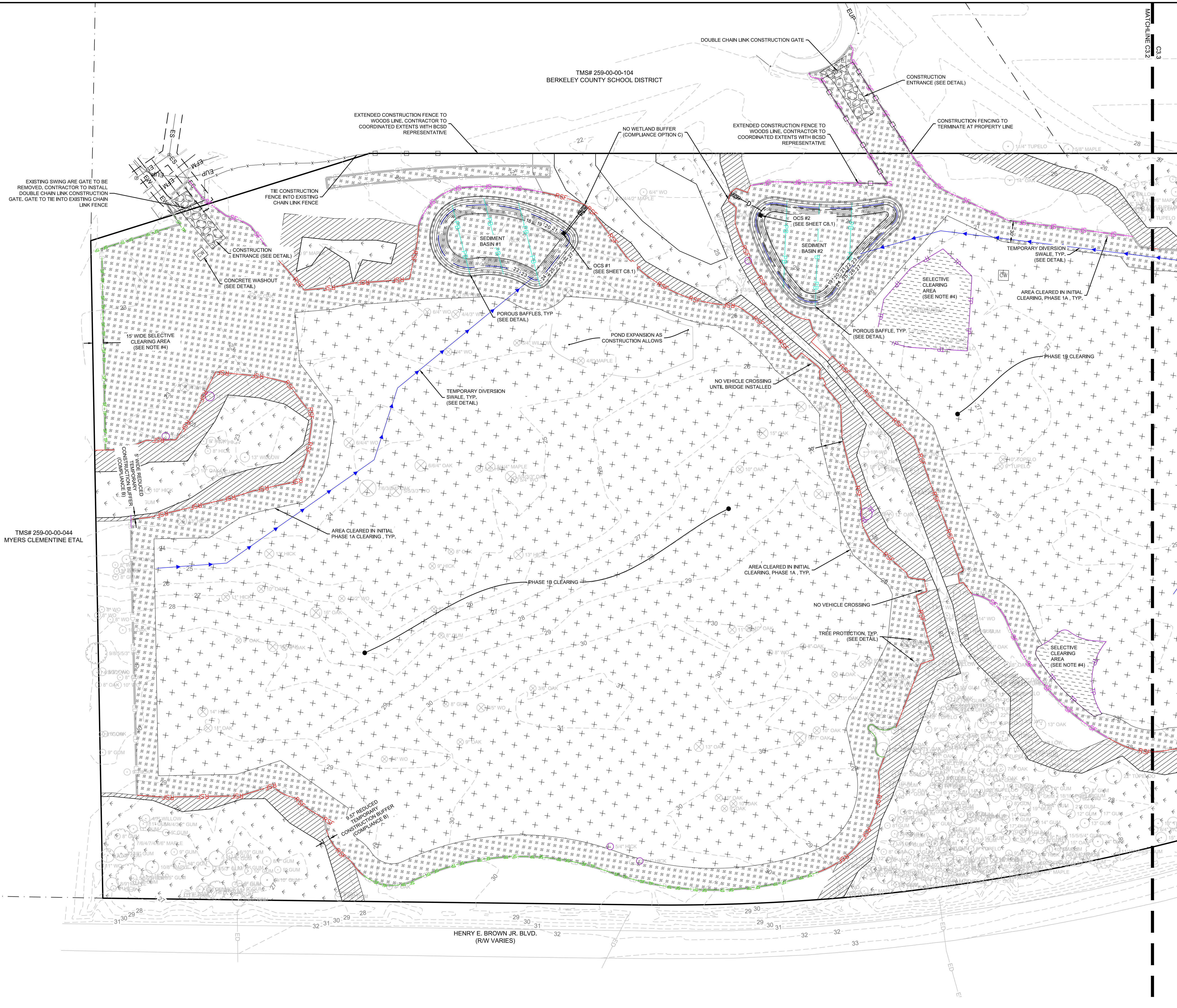
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| A | 6/12/20  |
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SWPPP PLAN  
PHASE 1A

**C3.1**



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**LEGEND**

- SF—SF—SF— SILT FENCE
- RSF—RSF— REINFORCED SILT FENCE
- >—>—>— DIVERSION SWALE
- LD—LD—LD— LIMIT OF DISTURBANCE
- SF-TP—SF-TP—SF-TP— SILT FENCE AND TREE PROTECTION
- TP—TP—TP— TREE PROTECTION
- SELECTIVE CLEARING (SEE GENERAL NOTES #4)
- PHASE 1B CLEARING LIMITS
- WETLAND- DO NOT DISTURB
- WETLAND BUFFER- DO NOT DISTURB
- INITIAL PHASE 1A CLEARING LIMITS
- CONCRETE WASHOUT

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TOTAL TREE INCHES REMOVED: 644

SEE PLANTING PLANS FOR FINAL STABILIZATION

**DISTURBED ACREAGE**  
**40.0 ACRES**

SEE SHEET C1.1 FOR LEGEND AND SHEETS C3.8 - C3.11 FOR SWPPP NOTES AND DETAILS.

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SCALE: 1" = 60'

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 No. C0047  
 STATE OF SOUTH CAROLINA  
 PROFESSIONAL ENGINEER

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

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|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |

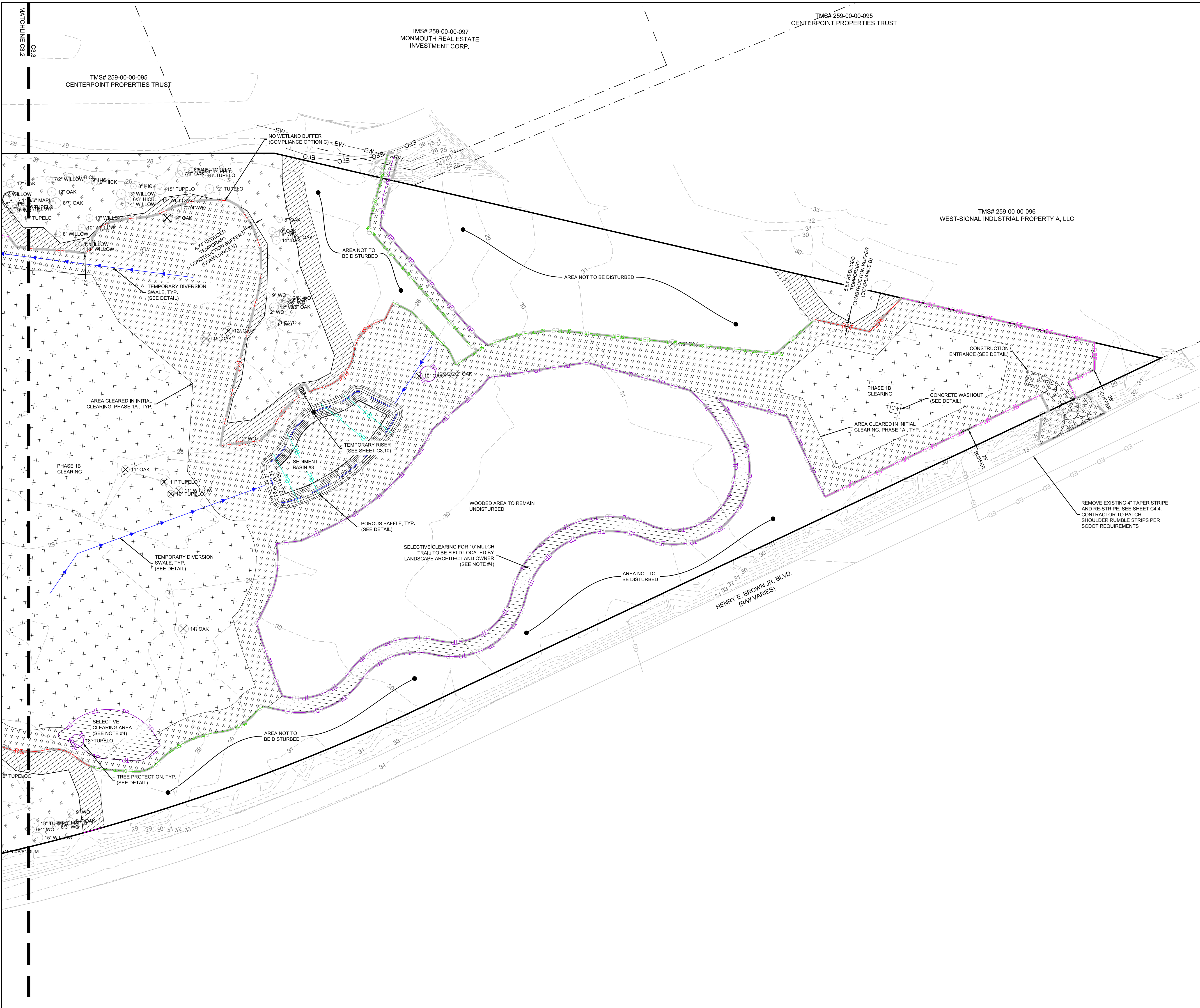
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SWPPP PLAN  
 PHASE 1B

C3.2



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**LEGEND**

- SILT FENCE
- REINFORCED SILT FENCE
- DIVERSION SWALE
- LIMIT OF DISTURBANCE
- SILT FENCE AND TREE PROTECTION
- TREE PROTECTION
- SELECTIVE CLEARING (SEE GENERAL NOTES #4)
- PHASE 1B CLEARING LIMITS
- WETLAND- DO NOT DISTURB
- WETLAND BUFFER- DO NOT DISTURB
- INITIAL PHASE 1A CLEARING LIMITS
- CONCRETE WASHOUT

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TOTAL TREE INCHES REMOVED: 644

SEE PLANTING PLANS FOR FINAL STABILIZATION

**DISTURBED ACREAGE**

**40.0 ACRES**

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SEAMON WHITESIDE

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SPARTANBURG, SC 864.298.0534  
CHARLOTTE, NC 980.312.5450  
WWW.SEAMONWHITESIDE.COM

**SEAMON WHITESIDE & ASSOCIATES, INC.**  
No. C00472  
STATE OF SOUTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER  
PA 12625

**SEAMON WHITESIDE & ASSOCIATES, INC.**  
No. 20961  
STATE OF SOUTH CAROLINA  
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
PA 12625

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

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| A | 6/12/20  |
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SWPPP PLAN  
PHASE 1B



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BERKELEY COUNTY SCHOOL DISTRICT

TMS# 259-00-00-044  
MYERS CLEMENTINE ETAL



**LEGEND**

|  |                                |
|--|--------------------------------|
|  | SILT FENCE                     |
|  | REINFORCED SILT FENCE          |
|  | TURBIDITY BARRIER              |
|  | LIMIT OF DISTURBANCE           |
|  | SILT FENCE AND TREE PROTECTION |
|  | TREE PROTECTION                |
|  | SELECTIVE CLEARING             |
|  | WETLAND- DO NOT DISTURB        |
|  | WETLAND BUFFER                 |
|  | CONCRETE WASHOUT               |
|  | CURB INLET PROTECTION          |
|  | FILTER FABRIC INLET PROTECTION |

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  2. ALL CURB INLETS & ALL CATCH BASINS IN PAVED AREAS SHALL HAVE TEMPORARY WEEP FILTERS PER DETAIL #6 ON SHEET C3.9. INSTALL WEEP FILTERS ON BOTH SIDES FOR ALL INLETS THAT RECEIVE DRAINAGE FROM BOTH SIDES.

SEE PLANTING PLANS FOR FINAL STABILIZATION

**DISTURBED ACREAGE**  
40.0 ACRES

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SCALE: 1" = 60'

**REVISION HISTORY**

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| D | 03/11/21 |

SWPPP PLAN  
PHASE 2

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SPARTANBURG, SC 864.298.0534  
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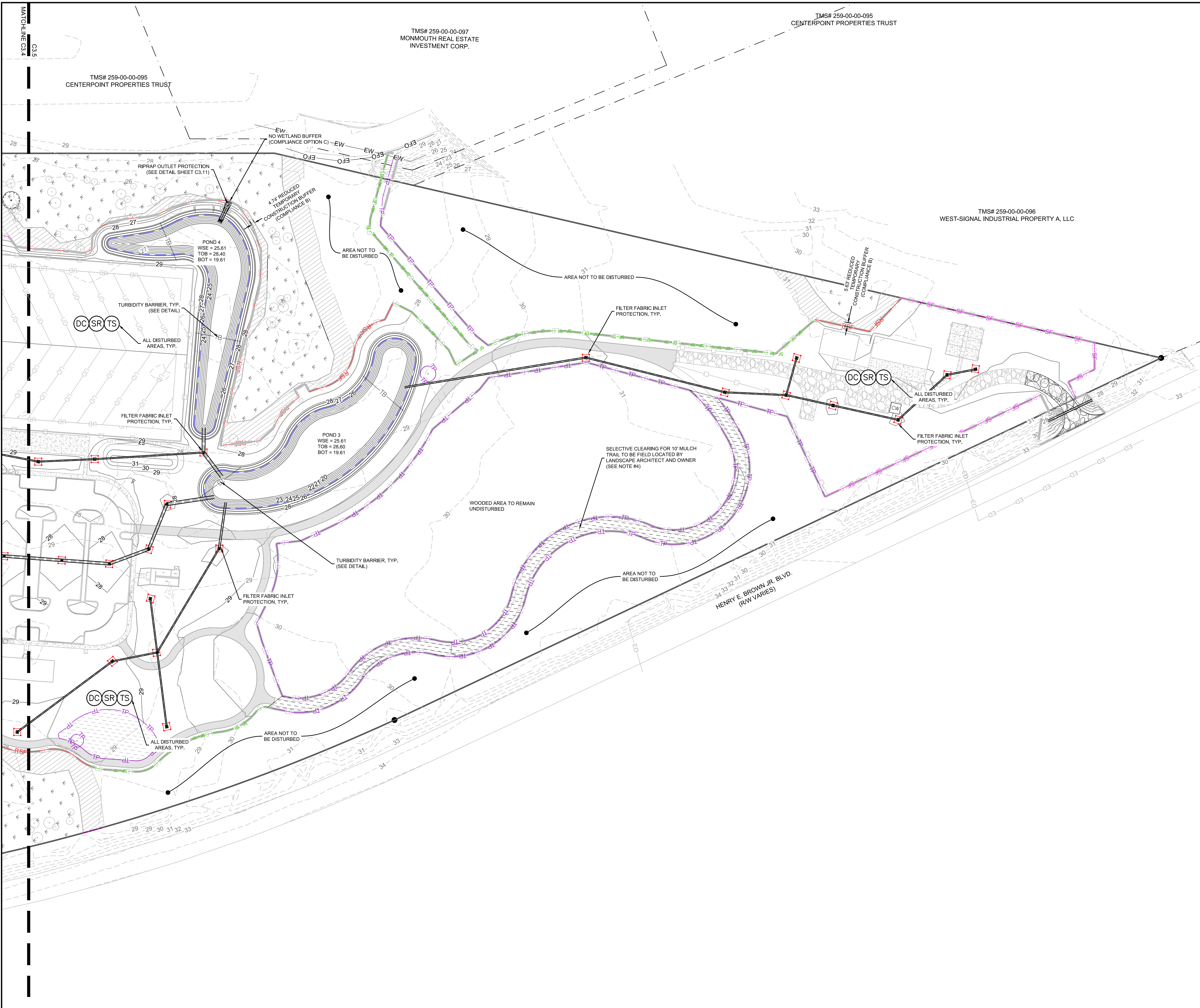
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CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**C3.4**



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**LEGEND**

|  |                                |
|--|--------------------------------|
|  | SILT FENCE                     |
|  | REINFORCED SILT FENCE          |
|  | TURBIDITY BARRIER              |
|  | LIMIT OF DISTURBANCE           |
|  | SILT FENCE AND TREE PROTECTION |
|  | TREE PROTECTION                |
|  | SELECTIVE CLEARING             |
|  | WETLAND- DO NOT DISTURB        |
|  | WETLAND BUFFER                 |
|  | CONCRETE WASHOUT               |
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40.0 ACRES

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 LICENSED PROFESSIONAL ENGINEER  
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |

SWPPP PLAN  
 PHASE 2



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TMS# 259-00-00-104  
BERKELEY COUNTY SCHOOL DISTRICT

TMS# 259-00-00-044  
MYERS CLEMENTINE ETAL



**LEGEND**

- SF — SF — SF — SILT FENCE
- RSF — RSF — REINFORCED SILT FENCE
- TB — TB — TB — TURBIDITY BARRIER
- LD — LD — LD — LIMIT OF DISTURBANCE
- SF-TP — SF-TP — SF-TP — SILT FENCE AND TREE PROTECTION
- TP — TP — TP — TREE PROTECTION
- SELECTIVE CLEARING (SEE NOTE #4)
- PERMANENT STABILIZATION (SEE LANDSCAPE PLANS)
- WETLAND- DO NOT DISTURB
- WETLAND BUFFER

**GENERAL NOTES:**

1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. SUBSURFACE INVESTIGATION OF UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.
2. THE CONTRACTOR SHALL VERIFY THE EXISTING TOPOGRAPHIC WORK AND EXISTING UTILITY LINE LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING WORK. SHOULD THE CONTRACTOR FIND AND DISCREPANCIES ON THE DRAWINGS PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
3. THE CONTRACTOR SHALL MAINTAIN AND BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY.
4. SELECTIVE CLEARING NOTE: THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING DURING SWPPP - PHASE 2 IN ACCORDANCE WITH SPECIFICATION SECTION 311000 - SITE CLEARING AND EROSION CONTROL. CONTRACTOR AREAS SHALL BE REVIEWED BY THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF SELECTIVE CLEARING ACTIVITIES.
5. DO NOT DISTURB ANY ONSITE WETLANDS OR WETLAND BUFFER
6. UPON FINAL APPROVAL BY ENGINEER AND AUTHORITIES HAVING JURISDICTION, PROMPTLY REMOVE ALL SILT FENCE, TREE PROTECTION, AND OTHER TEMPORARY EROSION CONTROL DEVICES AND LEGALLY DISPOSE.

- NOTES:**
1. SEE PLANTING PLAN FOR FINAL STABILIZATION.
  2. DANDY SACK INLET SEDIMENT CONTROL DEVICE OR APPROVED EQUAL IS TO BE INSTALLED IN ALL CATCH BASINS AFTER ROCK OR PAVEMENT IS INSTALLED ADJACENT TO THE CATCH BASIN.

**DISTURBED ACREAGE**  
**40.0 ACRES**

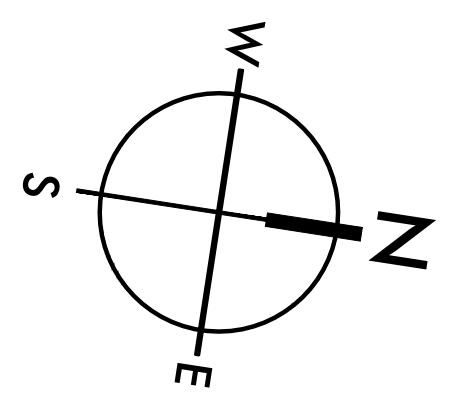
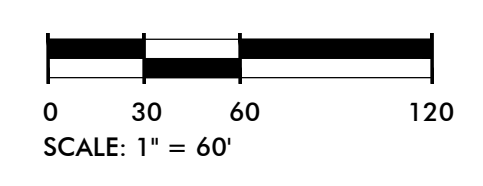
SEE SHEET C1.1 FOR LEGEND AND SHEETS C3.8 - C3.11 FOR SWPPP NOTES AND DETAILS.

**EXISTING UTILITY NOTE:**

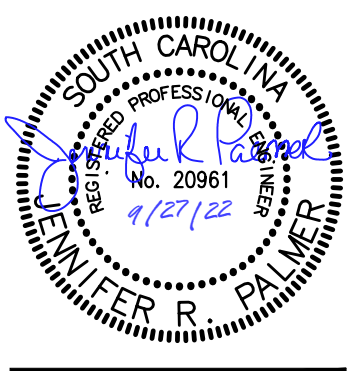
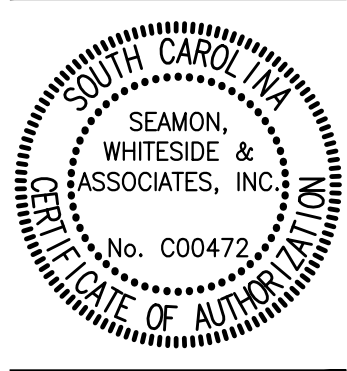
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

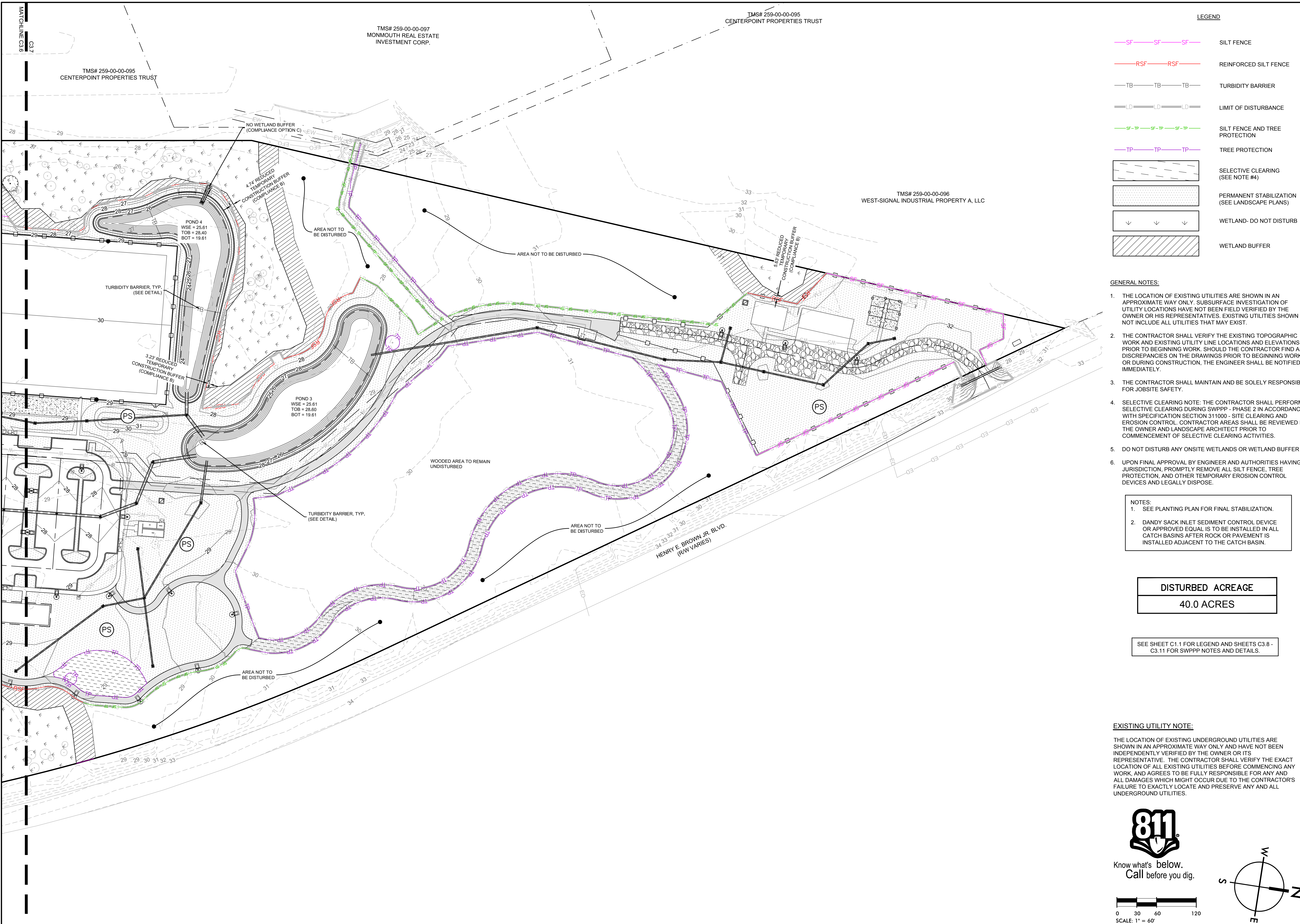
SW+ PROJECT: 7867  
 DATE: 06/12/20  
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| REVISION HISTORY |                     |
|------------------|---------------------|
| A                | 6/12/20             |
| B                | 10/29/20            |
| C                | 01/22/21            |
| D                | 03/11/21 7 08/22/22 |

SWPPP PLAN PHASE 3



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**LEGEND**

- SF— —SF— —SF— SILT FENCE
- RSF— —RSF— —RSF— REINFORCED SILT FENCE
- TB— —TB— —TB— TURBIDITY BARRIER
- LD— —LD— —LD— LIMIT OF DISTURBANCE
- SF-TP— —SF-TP— —SF-TP— SILT FENCE AND TREE PROTECTION
- TP— —TP— —TP— TREE PROTECTION
- SELECTIVE CLEARING (SEE NOTE #4)
- PERMANENT STABILIZATION (SEE LANDSCAPE PLANS)
- WETLAND- DO NOT DISTURB
- WETLAND BUFFER

- GENERAL NOTES:**
1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. SUBSURFACE INVESTIGATION OF UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.
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  5. DO NOT DISTURB ANY ONSITE WETLANDS OR WETLAND BUFFER
  6. UPON FINAL APPROVAL BY ENGINEER AND AUTHORITIES HAVING JURISDICTION, PROMPTLY REMOVE ALL SILT FENCE, TREE PROTECTION, AND OTHER TEMPORARY EROSION CONTROL DEVICES AND LEGALLY DISPOSE.

- NOTES:**
1. SEE PLANTING PLAN FOR FINAL STABILIZATION.
  2. DANDY SACK INLET SEDIMENT CONTROL DEVICE OR APPROVED EQUAL IS TO BE INSTALLED IN ALL CATCH BASINS AFTER ROCK OR PAVEMENT IS INSTALLED ADJACENT TO THE CATCH BASIN.

|                          |
|--------------------------|
| <b>DISTURBED ACREAGE</b> |
| <b>40.0 ACRES</b>        |

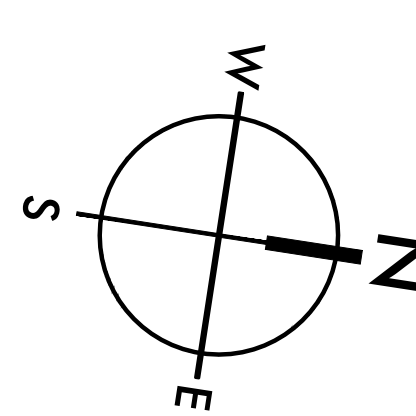
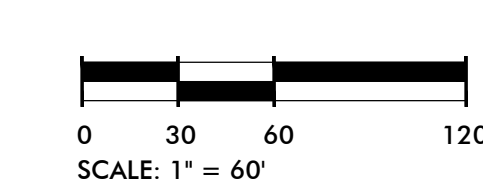
SEE SHEET C1.1 FOR LEGEND AND SHEETS C3.8 - C3.11 FOR SWPPP NOTES AND DETAILS.

**EXISTING UTILITY NOTE:**

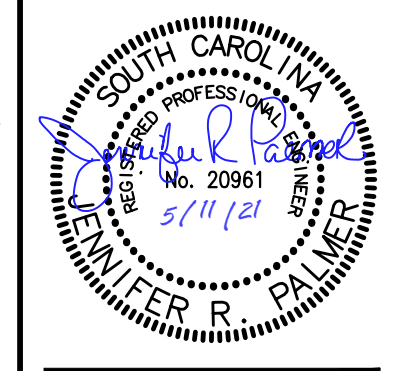
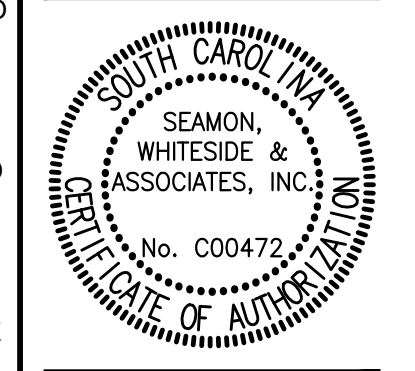
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SWPPP PLAN  
PHASE 3







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### SILT FENCE INSTALLATION

**PLAN SYMBOL**  
—SF—SF—

**FLAT-BOTTOM TRENCH DETAIL**  
1.25 LB./LINEAR FT. STEEL POSTS  
FILTER FABRIC  
MAXIMUM SPACING = 6 FT.  
BACKFILL TRENCH WITH COMPACTED EARTH  
RUNOFF  
USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SEE DETAILS  
HEAVY DUTY PLASTIC TIE FOR STEEL POSTS (RESTRICT TO TOP 8-INCHES OF FABRIC)  
BURY FABRIC

**V-SHAPED TRENCH DETAIL**  
FILTER FABRIC  
HEAVY DUTY PLASTIC TIES  
18-IN. TO 24-IN.  
6-IN.  
24-IN. (MINIMUM)  
6-IN.  
BURY FILTER FABRIC AT LEAST 12-INCHES

**POST INSTALLATION DETAIL**  
1.25 LB./LINEAR FT. STEEL POSTS  
24-IN. MIN.  
3-FT. MAX. SPACING

**FILTER FABRIC INSTALLATION DETAIL**  
ATTACH FILTER FABRIC TO POSTS WITH HEAVY DUTY PLASTIC TIES ALONG TOP 8-INCHES OF FABRIC.  
FOLD FABRIC TO OVERLAP 1 FOOT AND SECURE TO POSTS WITH HEAVY DUTY PLASTIC TIES  
BURY FABRIC (SEE DETAIL)

**PLAN SYMBOL**  
[Symbol]

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
STANDARD DRAWING NO. SC-03 Page 1 of 2  
NOT TO SCALE FEBRUARY 2014 DATE

### SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overlaid flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
  - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
  - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties or.
  - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

### SILT FENCE - POST REQUIREMENTS

- Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
  - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
  - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
  - Weight 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 6-feet on center.

### SILT FENCE - FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
  - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are 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 any defects or flaws that significantly affect its physical and/or filtering properties; and
  - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter fabric shall be installed at a minimum of 24-inches above the ground.

### SILT FENCE - INSPECTION & MAINTENANCE

- The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
- Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
- Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
STANDARD DRAWING NO. SC-03 Page 2 of 2  
GENERAL NOTES FEBRUARY 2014 DATE

### REINFORCED SILT FENCE

(NOT TO SCALE)

**PLAN SYMBOL**  
—RSF—RSF—

"U" OR "T" SECTION STEEL POST, MAX SPACING = 6' O.C.  
STEEL WELDED WIRE REINFORCEMENT 6X6-W2.9XW2.9  
EXCAVATE TRENCH FOR FULL LENGTH OF SILT FENCE, POSITION FABRIC, THEN BACKFILL AND COMPACT WITH EXCAVATED SOIL.  
DRAINAGE FLOW  
24" (MINIMUM)  
24" (MINIMUM)  
6"

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
STANDARD DRAWING NO. SC-03 Page 2 of 2  
GENERAL NOTES FEBRUARY 2014 DATE

### FLAT-BOTTOM TRENCH DETAIL

1.25 LB./LINEAR FT. STEEL POSTS  
FILTER FABRIC  
HEAVY DUTY PLASTIC TIES  
18-IN. TO 24-IN.  
6-IN.  
24-IN. (MINIMUM)  
6-IN.  
BURY FILTER FABRIC AT LEAST 12-INCHES

### V-SHAPED TRENCH DETAIL

1.25 LB./LINEAR FT. STEEL POSTS  
24-IN. MIN.  
3-FT. MAX. SPACING

### POST INSTALLATION DETAIL

1.25 LB./LINEAR FT. STEEL POSTS  
24-IN. MIN.  
3-FT. MAX. SPACING

### FILTER FABRIC INSTALLATION DETAIL

ATTACH FILTER FABRIC TO POSTS WITH HEAVY DUTY PLASTIC TIES ALONG TOP 8-INCHES OF FABRIC.  
FOLD FABRIC TO OVERLAP 1 FOOT AND SECURE TO POSTS WITH HEAVY DUTY PLASTIC TIES  
BURY FABRIC (SEE DETAIL)

### PLAN SYMBOL

**South Carolina Department of Health and Environmental Control**  
**Type A FILTER FABRIC INLET PROTECTION**  
STANDARD DRAWING NO. SC-07 PAGE 1 of 2  
NOT TO SCALE FEBRUARY 2014 DATE

### TYPE A - FILTER FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
  - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are 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 any defects or flaws that significantly affect its physical and/or filtering properties; and
  - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter fabric shall be installed at a minimum of 24-inches above the ground.

### TYPE A - POST REQUIREMENTS

- Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
  - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
  - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
  - Weight 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 3-feet on center.

### TYPE A - INSPECTION & MAINTENANCE

- The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.
- Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.
- Inlet protection structures should be removed after all 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. Stabilize all bare areas immediately.

**South Carolina Department of Health and Environmental Control**  
**Type A FILTER FABRIC INLET PROTECTION**  
STANDARD DRAWING NO. SC-07 PAGE 2 of 2  
GENERAL NOTES FEBRUARY 2014 DATE

### CURB INLET SEDIMENT FILTER

(NOT TO SCALE)

**PLAN SYMBOL**  
[Symbol]

WHERE SHOULDER SLOPES TOWARD CURB, INSTALL SILT FENCE AROUND CURB INLET TOP (CUTAWAY VIEW SHOWN FOR CLARITY)  
6"x6" BLOCK  
TOP OF CURB  
GUTTER  
CURB INLET THROAT (BEHIND FILTER)  
MANUFACTURED CURB INLET SEDIMENT FILTER (GUTTERBUDDY, GUTTERGUARD OR APPROVED EQUAL)

**NOTES:**  
1. INSPECT AND REMOVE ACCUMULATED SEDIMENT WITHIN 24 HOURS AFTER EACH STORM EVENT.  
2. DO NOT REMOVE SEDIMENT FILTER UNTIL ACCUMULATED SEDIMENT HAS FIRST BEEN REMOVED AND DISPOSED OF IN A MANNER SUCH THAT IT WILL NOT ENTER THE UNPROTECTED INLET.

**South Carolina Department of Health and Environmental Control**  
**Type A FILTER FABRIC INLET PROTECTION**  
STANDARD DRAWING NO. SC-07 PAGE 2 of 2  
GENERAL NOTES FEBRUARY 2014 DATE

### CONSTRUCTION ENTRANCE - GENERAL NOTES

- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
- Install a non-woven geotextile fabric prior to placing any stone.
- Install a culvert pipe across the entrance when needed to provide positive drainage.
- The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
- Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
- The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
- Limestone may not be used for the stone pad.

### CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
- Reshape the stone pad as necessary for drainage and runoff control.
- Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
- Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
- During maintenance activities, any broken pavement should be repaired immediately.
- Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

**South Carolina Department of Health and Environmental Control**  
**CONSTRUCTION ENTRANCE**  
STANDARD DRAWING NO. SC-06 PAGE 1 of 2  
NOT TO SCALE FEBRUARY 2014 DATE

### DRAINAGE INLET WEEP FILTER

(NOT TO SCALE)

**PLAN SYMBOL**  
[Symbol]

NOTE #1  
NOTE #2  
NOTE #3  
NOTE #4/5  
SURFACE COURSE  
BINDER COURSE (WHERE APPLICABLE)  
SECURE SOCK TO COVER PIPE END  
CURB INLET SEDIMENT FILTER (SEE SEPARATE DETAIL)  
CURB INLET  
CURB INLET SEDIMENT FILTER  
BASE COURSE  
SUBGRADE  
INLET THROAT  
4" DIAM. SLOTTED PIPE DRAIN WITH FILTER SOCK  
PLAN VIEW  
SECTION "A-A"

**NOTES:**  
1. PROVIDE "FILTER FABRIC INLET PROTECTION" (SEE DETAIL) FOR UNCOMPLETED STRUCTURE AS REQ.  
2. GROUT SLOTTED PIPE DRAIN INTO WALL OPENING WATERTIGHT.  
3. EXTEND SLOTTED PIPE DRAIN 8-12" ABOVE SURFACE OF BASE/BINDER COURSE AS APPLICABLE.  
4. WHERE TRAFFIC IS TO BE ALLOWED ON BINDER COURSE PRIOR TO COMPLETION OF SURFACE COURSE, TRIM PIPE FLUSH AND SECURE SOCK TO COVER PIPE END. TUCK EXCESS INTO PIPE END.  
5. BEFORE PLACING SURFACE COURSE, TRIM SLOTTED PIPE DRAIN FLUSH WITH TOP OF BASE/BINDER COURSE (AS APPLICABLE) AND GROUT ENTIRE LENGTH OF PIPE COMPLETELY FULL AND WATERTIGHT. SMOOTH GROUT FLUSH WITH INTERIOR WALL AND SURFACE OF BASE/BINDER COURSE.

**South Carolina Department of Health and Environmental Control**  
**CONSTRUCTION ENTRANCE**  
STANDARD DRAWING NO. SC-06 PAGE 2 of 2  
GENERAL NOTES FEBRUARY 2014 DATE

**SW**  
SEAMONWHITESIDE

MOUNT PLEASANT, SC 843.884.1667  
GREENVILLE, SC 864.298.0534  
SUMMERVILLE, SC 843.972.0710  
SPARTANBURG, SC 864.298.0534  
CHARLOTTE, NC 980.312.5450  
WWW.SEAMONWHITESIDE.COM

**SEAMON, WHITESIDE & ASSOCIATES, INC.**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF SOUTH CAROLINA  
LICENSE NO. C00477  
DATE OF EXPIRATION: 12/31/2024

**SEAMON, WHITESIDE & ASSOCIATES, INC.**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF SOUTH CAROLINA  
LICENSE NO. 20961  
DATE OF EXPIRATION: 5/11/21

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |
| 2                | 04/01/21 |

SWPPP DETAILS

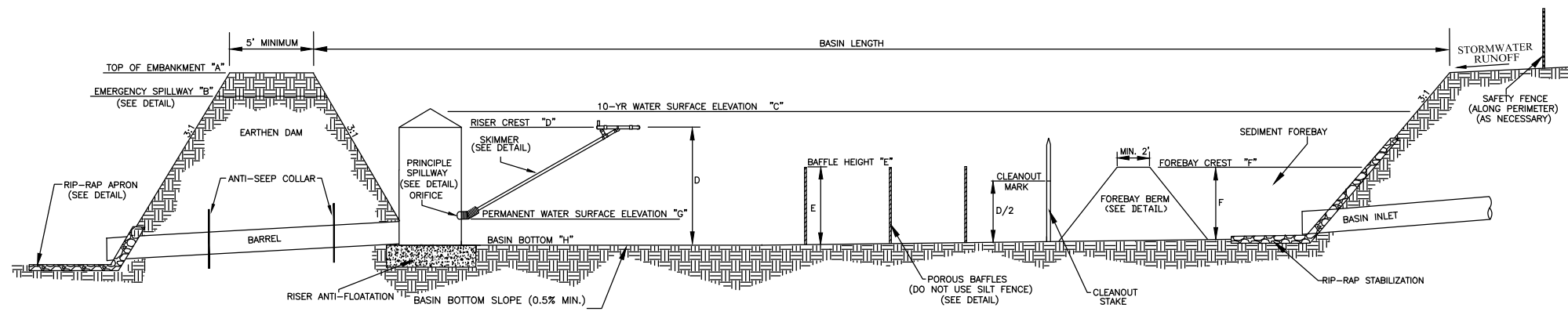


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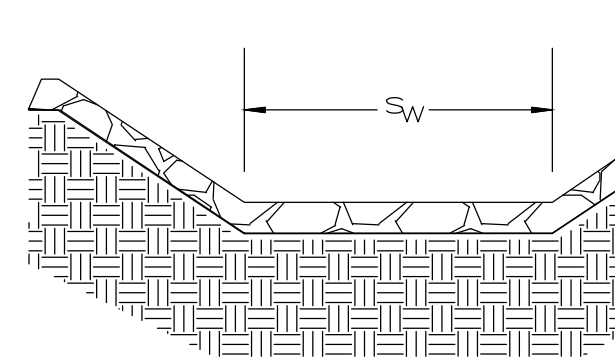
501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601

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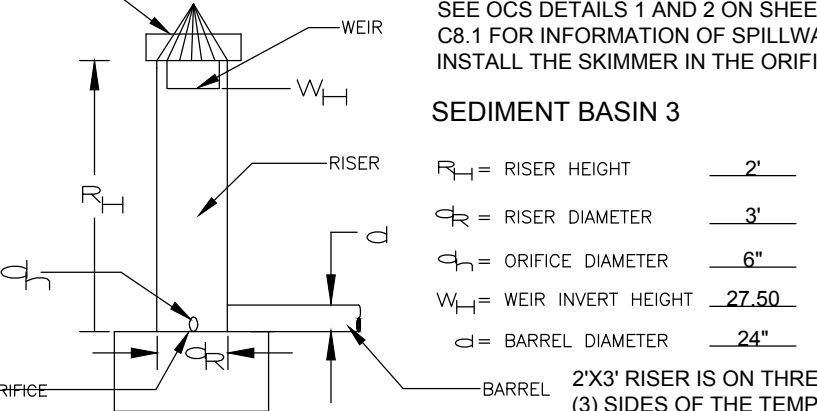
**WET SEDIMENT BASIN SECTIONAL VIEW**



**EMERGENCY SPILLWAY DETAIL**



**PRINCIPLE SPILLWAY DETAIL**



SEE OCS DETAILS 1 AND 2 ON SHEET C8.1 FOR INFORMATION OF SPILLWAY. INSTALL THE SKIMMER IN THE ORIFICE.

**SEDIMENT BASIN 3**

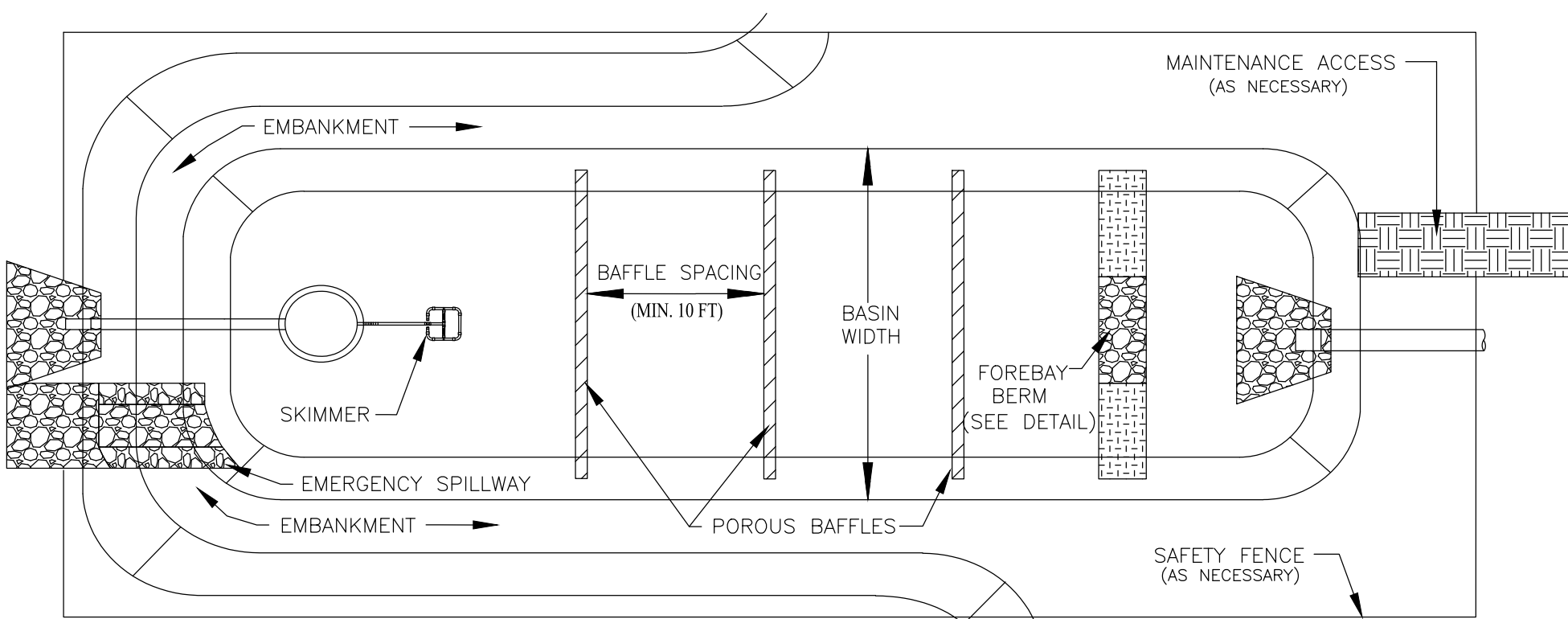
R<sub>1</sub> = RISER HEIGHT = 2'  
 R<sub>2</sub> = RISER DIAMETER = 3'  
 O = ORIFICE DIAMETER = 6"  
 W<sub>1</sub> = WEIR INVERT HEIGHT = 27.50'  
 D = BARREL DIAMETER = 24"

2X3" RISER IS ON THREE (3) SIDES OF THE TEMP. RISER.

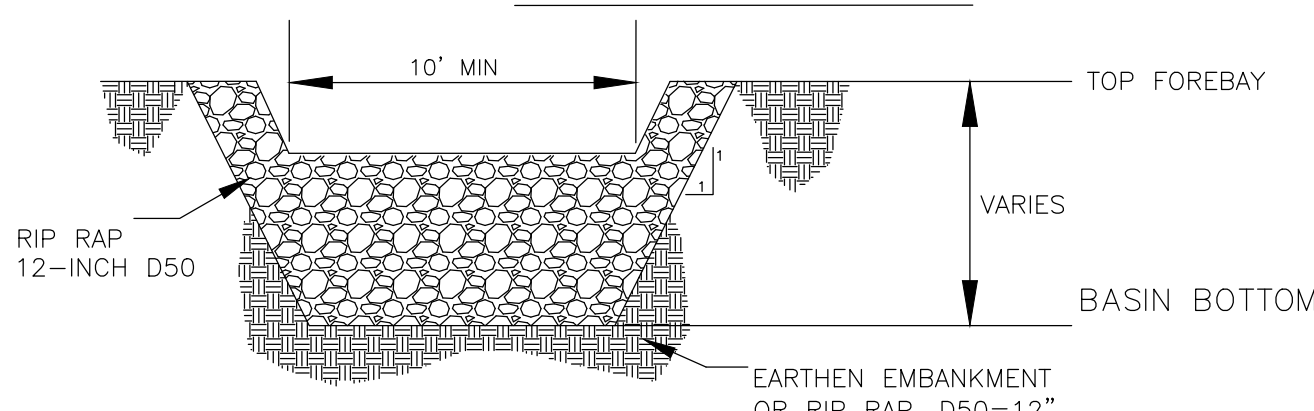
**SEDIMENT BASIN DESIGN TABLE**

| Sediment Basin Name/Number | "A"   | "B"   | "C"   | "D"   | "E" | "F" | "G"   | "H"   | Skimmer Size (in.) | Skimmer Orifice (in.) | Skimmer Daily Discharge Capacity (FT <sup>3</sup> /DAY) | Skimmer Average Discharge Rate (CFS) | Dewatering Time (Days) | No. of Skimmers |
|----------------------------|-------|-------|-------|-------|-----|-----|-------|-------|--------------------|-----------------------|---|--------------------------------------|------------------------|-----------------|
| BASIN 1                    | 27.25 | 25.53 | 25.39 | 26.50 | 4'  | 4'  | 23.15 | 17.15 | 6"                 | 6"                    | 51,840  | 0.6                                  | 1.28                   | 1               |
| BASIN 2                    | 27.50 | 26.46 | 26.43 | 27.50 | 4'  | 4'  | 24.50 | 18.50 | 4"                 | 4"                    | 20,109  | 0.23                                 | 1.71                   | 1               |
| BASIN 3                    | 28.60 | 28.20 | 28.40 | 27.50 | 4'  | 4'  | 25.61 | 19.61 | 6"                 | 6"                    | 51,840  | 0.6                                  | 1.23                   | 1               |

**WET SEDIMENT BASIN PLAN VIEW**



**FOREBAY BERM DETAIL**



South Carolina Department of Health and Environmental Control  
**WET SEDIMENT BASIN**  
 STANDARD DRAWING NO. SC-01A  
 FEBRUARY 2004  
 NOT TO SCALE

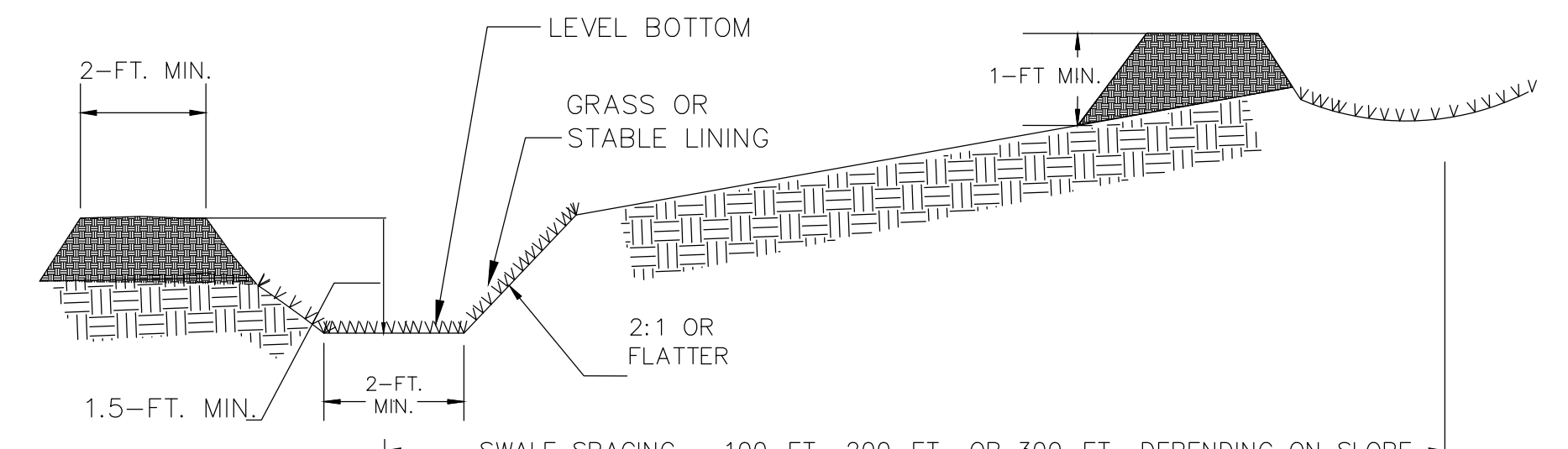
**WET SEDIMENT BASIN - GENERAL NOTES**

- Sediment basins should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
- Sediment basin's side slopes shall be seeded and, when necessary, stabilized with vegetative or synthetic matting to prevent the formation of rills and gullies.
- Install three (3) rows of porous baffles with a minimum spacing of 10 feet. Baffles should ultimately be placed to maximize the space between each row of baffles and the basin's inlets/outlets. Only two (2) rows of baffles are necessary for basins that are less than 50 feet in length.
- Porous Baffles should be composed of coir-based materials or TRMs with a light penetration (open spaces) between 10-35%. These materials should not have loose straw. Silt Fence may not be used as Porous Baffles.
- Each porous baffle shall be installed across the entire width of the basin and along the basin's side slope until the height of the baffle intersects the slope.
- Install skimmer and coupling (as necessary) to riser structure at orifice along bottom of the principle spillway's riser structure. (Refer to skimmer manufacturer for installation procedures and skimmer specifications.)
- Skimmer should be equipped with a mechanism, such as a rope, to allow easy access to skimmer to unclogged orifice or perform other necessary maintenance.
- Stormwater runoff entering the basin must be directed into proper BMPs to prevent erosion along side slopes and to prevent scour at the basin's inlets.
- The forebay berm should consist of riprap, gabion, or an earthen berm with a rock filled outlet that is constructed across the bottom of the basin's width.
- An additional cleanup stake for the forebay area is recommended and should be marked for cleanup at 50% of provided sediment storage.
- The elevation of the emergency spillway should be at least 1 foot below the top of the embankment. The emergency spillway should not be located on fill material, when possible. Riprap and geotextile liner should be placed on all spillways that must be located on fill material.

**WET SEDIMENT BASIN - INSPECTION AND MAINTENANCE**

- The key to a functional sediment basin is weekly inspections, routine maintenance, and regular sediment removal.
- Attention to sediment accumulations within the basin is extremely important. Accumulated sediment deposition should be continually checked and removed when necessary.
- Remove accumulated sediment when it reaches 50% of the design sediment storage volume or 1/2 the height of the riser structure, whichever is reached first.
- Removed sediment from the basin shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.
- Inspections of sediment basins should be conducted once every calendar week and, as recommended, within 24-hours of each rainfall event that produces 1/2-inch or more of precipitation.
- All temporary sediment basins, which are not to be converted to a detention basin post-construction, should be removed within 30 days after final site stabilization is achieved.
- Disturbed areas resulting from the removal of the sediment basin should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to accept stormwater runoff from this disturbed area until final stabilization is reached.

South Carolina Department of Health and Environmental Control  
**WET SEDIMENT BASIN**  
 STANDARD DRAWING NO. SC-01A Page 3 of 3  
**GENERAL NOTES** FEBRUARY 2004



**DIVERSION SWALE**

**Installation**

The bottom width should be a minimum of 2-feet, and the bottom should be level. The depth should be a minimum of 1.5-feet and the side slopes should be 2H:1V or flatter.

The maximum grade shall be 5%, with positive drainage to a suitable outlet.

Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion.

The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary.

Sediment-laden runoff shall be directed to a sediment trapping facility.

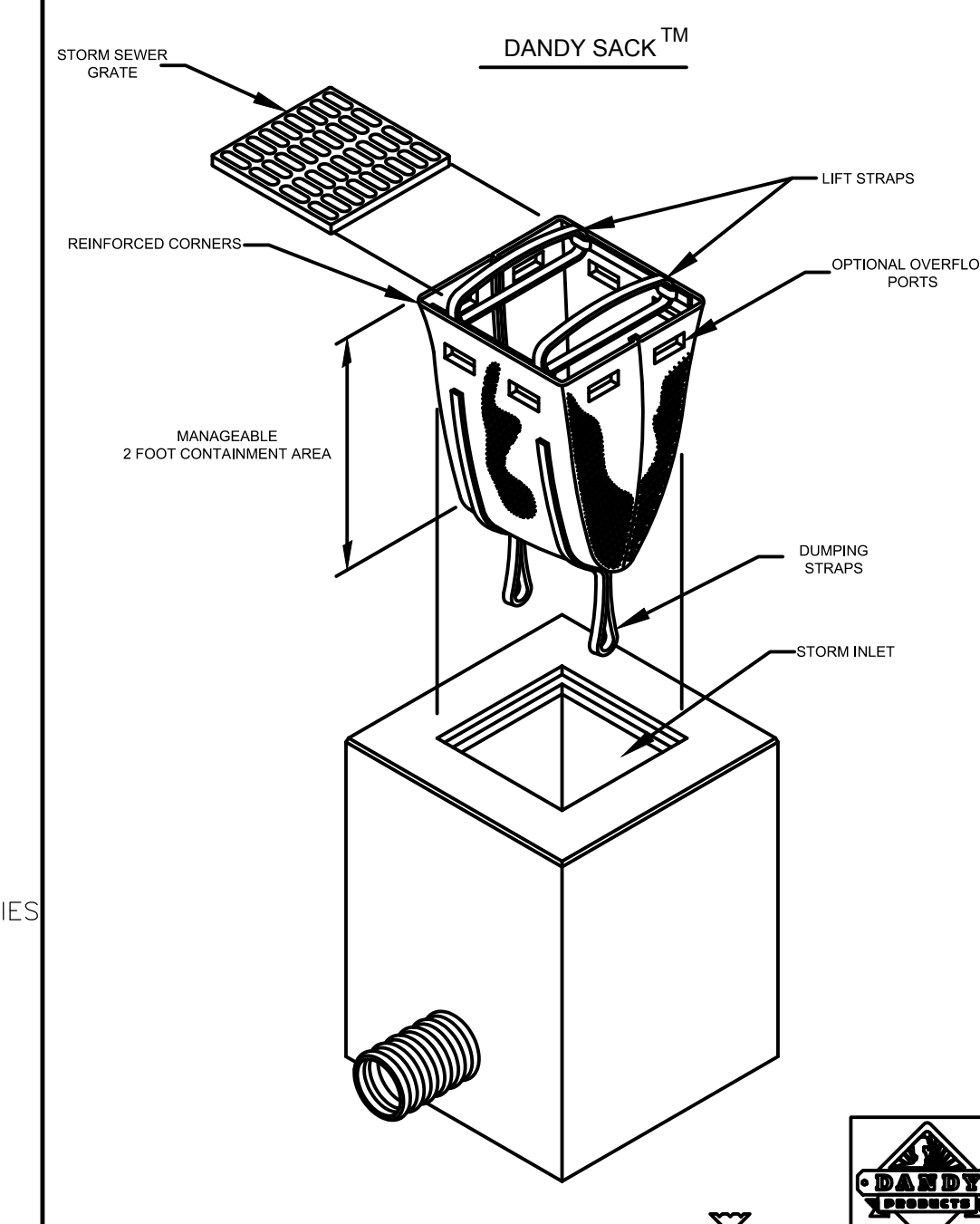
**Inspection and Maintenance**

Swales should be inspected, every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inches or more of precipitation and repairs made as necessary.

Damage caused by construction traffic or other activity must be repaired before the end of each working day.

South Carolina Department of Health and Environmental Control  
**DIVERSION SWALE**  
 STANDARD DRAWING NO. RC-03  
 NOT TO SCALE JULY 31, 2005  
 DATE

**3**



**DANDY SACK™ SPECIFICATIONS**

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

**REGULAR FLOW DANDY SACK™ (BLACK)**

| Mechanical Properties   | Test Method | Units   | MARV                    |
|-------------------------|-------------|---|-------------------------|
| Grab Tensile Strength   | ASTM D 4832 | kN (lbs)  | 1.78 (400) x 1.40 (315) |
| Grab Tensile Elongation | ASTM D 4832 | %   | 15 - 15                 |
| Puncture Strength       | ASTM D 4833 | kN (lbs)  | 0.67 (150)              |
| Mullen Burst Strength   | ASTM D 3786 | kPa (psi)                                       | 4506 (650)              |
| Trapezoid Tear Strength | ASTM D 4533 | kN (lbs)  | 0.67 (150) x 0.73 (165) |
| UV Resistance           | ASTM D 4355 | %   | 0.425 (40)              |
| Apparent Opening Size   | ASTM D 4751 | Mm (US Std Sieve)                               | 30                      |
| Flow Rate               | ASTM D 4481 | l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> ) | 2852 (70)               |
| Permeability            | ASTM D 4481 | Sec   | 0.90                    |

**HI-FLOW DANDY SACK™ (SAFETY ORANGE)**

| Mechanical Properties   | Test Method | Units   | MARV                    |
|-------------------------|-------------|---|-------------------------|
| Grab Tensile Strength   | ASTM D 4832 | kN (lbs)  | 1.62 (365) x 0.89 (200) |
| Grab Tensile Elongation | ASTM D 4832 | %   | 24 x 10                 |
| Puncture Strength       | ASTM D 4833 | kN (lbs)  | 0.40 (90)               |
| Mullen Burst Strength   | ASTM D 3786 | kPa (psi)                                       | 3997 (450)              |
| Trapezoid Tear Strength | ASTM D 4533 | kN (lbs)  | 0.61 (138) x 0.33 (75)  |
| UV Resistance           | ASTM D 4355 | %   | 0                       |
| Apparent Opening Size   | ASTM D 4751 | Mm (US Std Sieve)                               | 0.425 (40)              |
| Flow Rate               | ASTM D 4481 | l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> ) | 6907 (145)              |
| Permeability            | ASTM D 4481 | Sec   | 2.1                     |

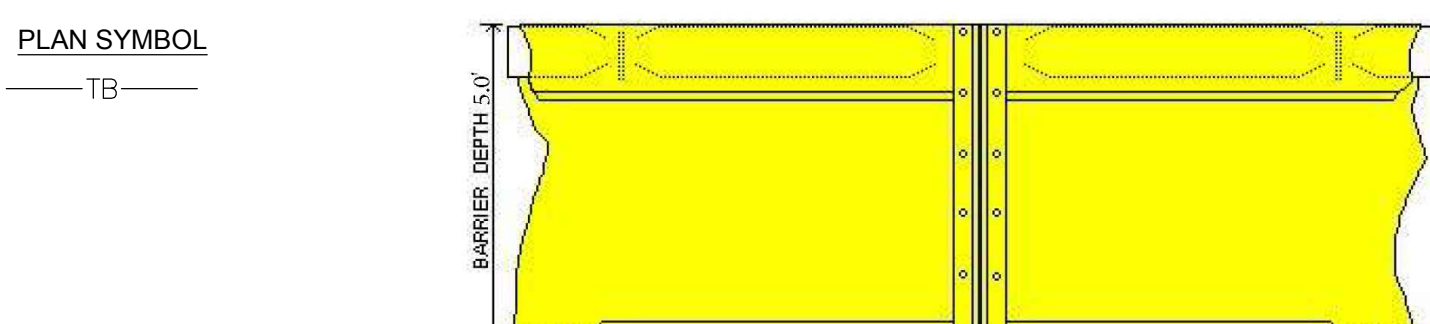
\*Note: All Dandy Sack™ can be ordered with our optional oil absorbent pillows

CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL BY OWNER AND ENGINEER

**4**

**DANDY BAGS (NOT TO SCALE)**

**1**



**Tough Guy® Floating Turbidity Barrier Type 1.DOT**

**Specifications (ST: 10/08)**

Fabric - 18 oz. nominal laminated vinyl/polyester having the following characteristics:

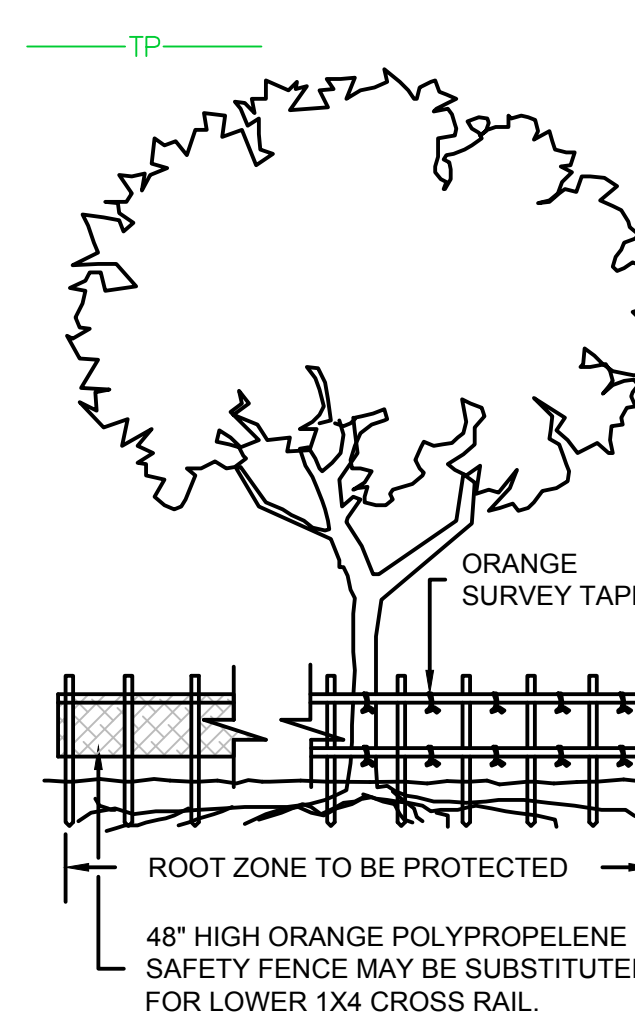
- Construction - vinyl laminate on 9X9 1000 x 1300 denier polyester scrim
- Weight - 18.5 oz. per sq. yd. (434 gr./sq. m.)
- Adhesion - 24 x 20 lb./2"
- Grab Tensile - 410 x 410 lb./in. (430 x 421 daN/5cm.)
- Tongue Tear - 100 x 100 lb. (85 x 95 daN)
- Hydrostatic - 600 psi (4187 kPa)
- Cold resistance to crack: -40° F/C

- All seams heat sealed
- 5/8 inch diameter poly rope reinforced vertical edges
- #4 brass grommets
- 14 in. galvanized chain ballast
- EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft. buoyancy in saltwater.

CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL BY OWNER AND ENGINEER

**5 TOUGH GUY TYPE 1 TURBIDITY BARRIER (NOT TO SCALE)**

**PLAN SYMBOL**

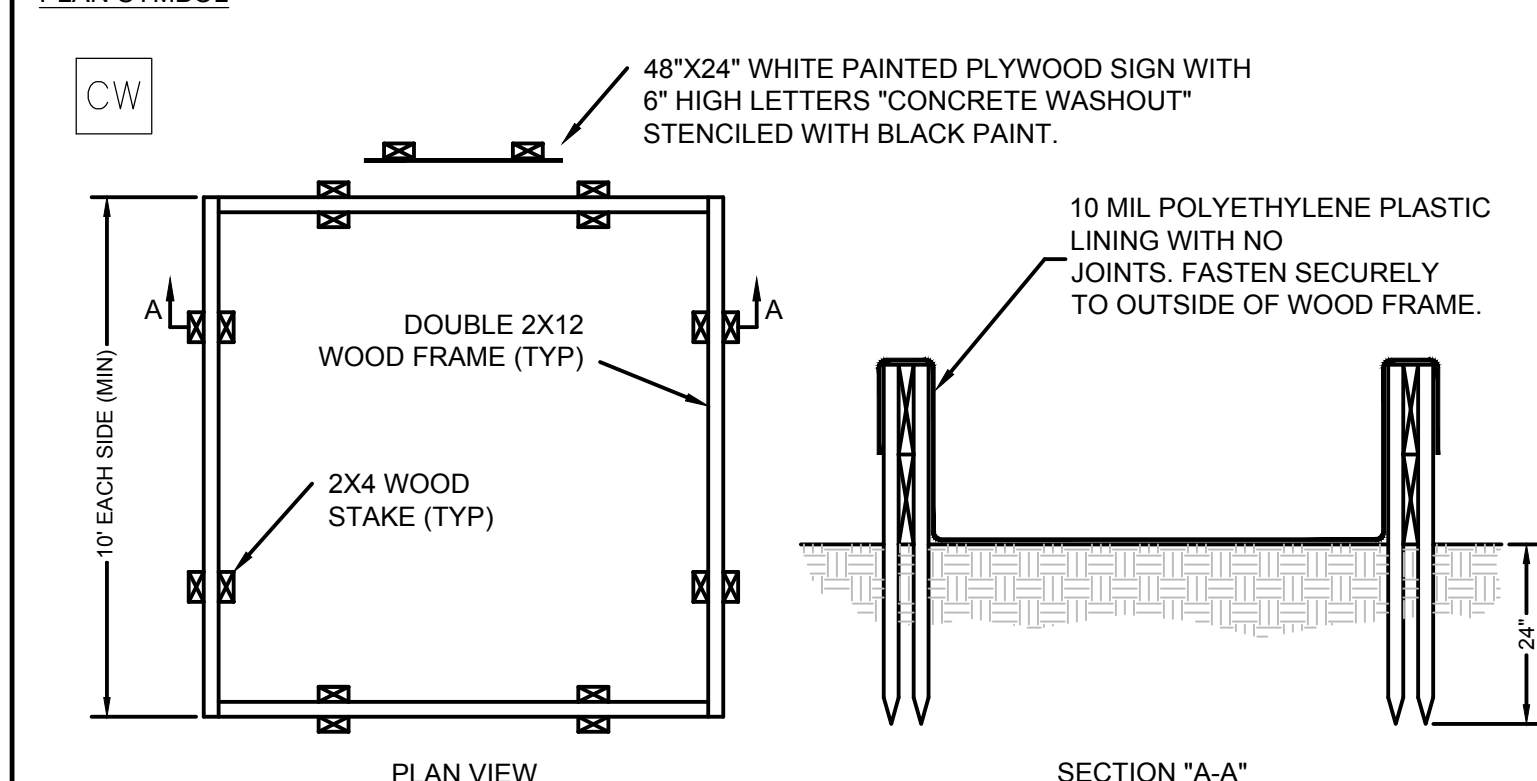


**NOTES:**

- BARRICADES SHALL BE INSTALLED AROUND ALL TREES INDICATED ON THE PLANS ACCORDING TO THE FOLLOWING STANDARDS:
  - BARRICADES SHALL HAVE EITHER TWO WOODEN RAILS OR A SINGLE WOODEN TOP RAIL WITH ORANGE POLY FENCING AS INDICATED.
  - BARRICADES SHALL ENCLOSE A CIRCULAR AREA CENTERED ABOUT THE TREE. THE DIAMETER OF WHICH SHALL BE EQUAL TO ONE FOOT FOR EACH INCH OF DIAMETER OF THE TREE MEASURED AT BREAST HEIGHT (DBH).
  - VARIATIONS FROM THE ABOVE STANDARDS, WHERE NECESSARY DUE TO SITE CONDITIONS, WILL REQUIRE APPROVAL FROM THE CITY OF HANAHAN PLANING DEPARTMENT.

**6 TREE PROTECTION (NOT TO SCALE)**

**PLAN SYMBOL**



**NOTES:**

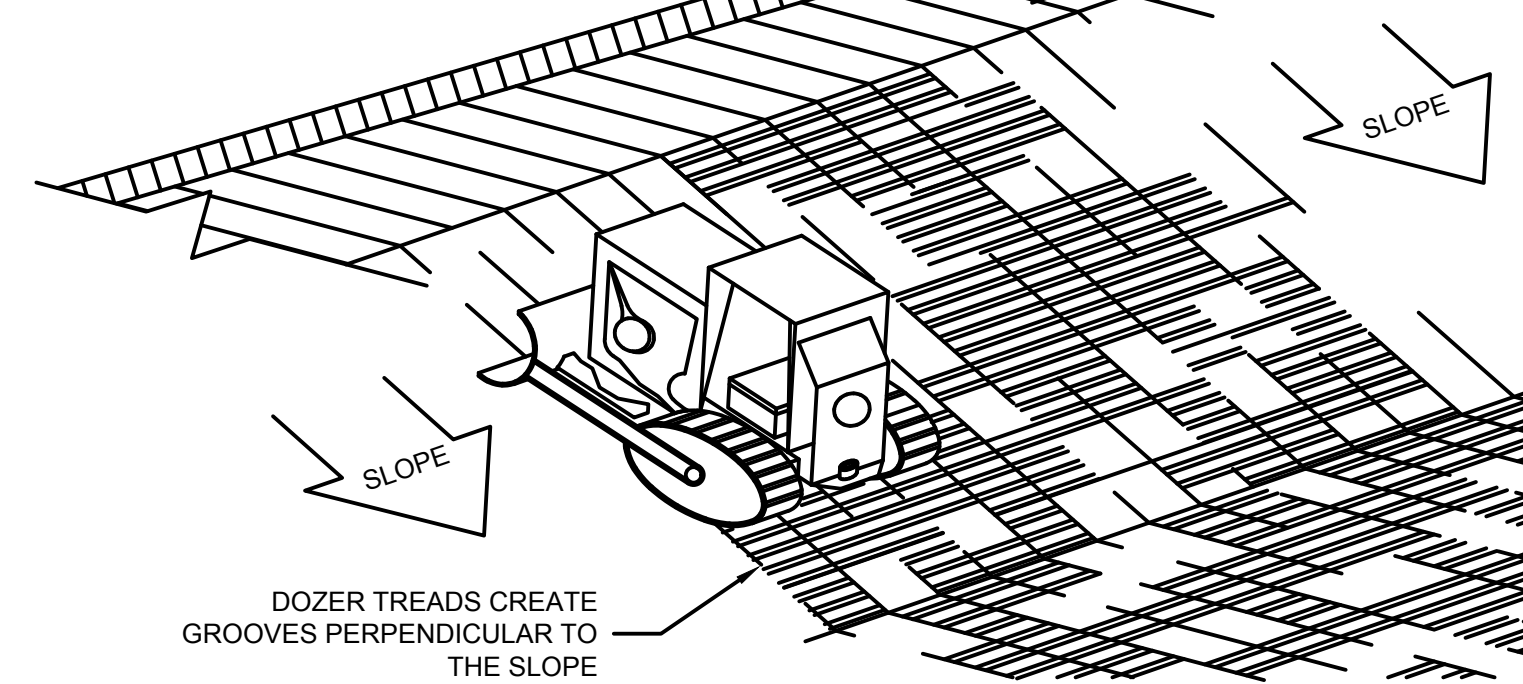
- PREPARE GROUND & FRAME SUCH THAT SHARP OBJECTS/CORNERS DO NOT DAMAGE THE LINER. PROMPTLY REMOVE CONTENTS (AS NOTED BELOW) & REPLACE LINER IF LEAKAGE IS OBSERVED.
- LIQUID & CONCRETE DEBRIS SHALL BE REMOVED BY VACUUM TRUCK & LEGALLY DISPOSED UPON COMPLETION OF PROJECT OR ANYTIME WHEN LIQUID REACHES A LEVEL 8" BELOW THE TOP.

**7 CONCRETE WASHOUT BASIN (NOT TO SCALE)**

**(SR)**

1. SHOW TEMPORARY SEED AND ESTABLISH TURF IMMEDIATELY UPON COMPLETION OF GRADING AND SOIL PREPARATION.

2. WHEN DIRECTED BY ENGINEER, RE-GRADE SLOPE TO FINAL DESIGN CONFIGURATION AND PROCEED WITH SUBSEQUENT CONSTRUCTION OR FINAL STABILIZATION MEASURES AS INDICATED.

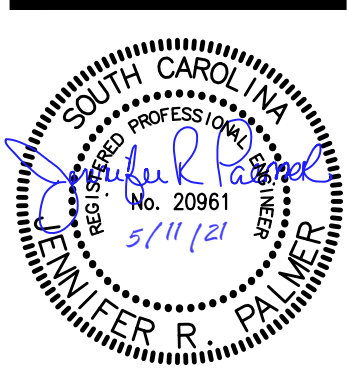


DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE

**8 TEMPORARY SURFACE TRACKING (NOT TO SCALE)**



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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

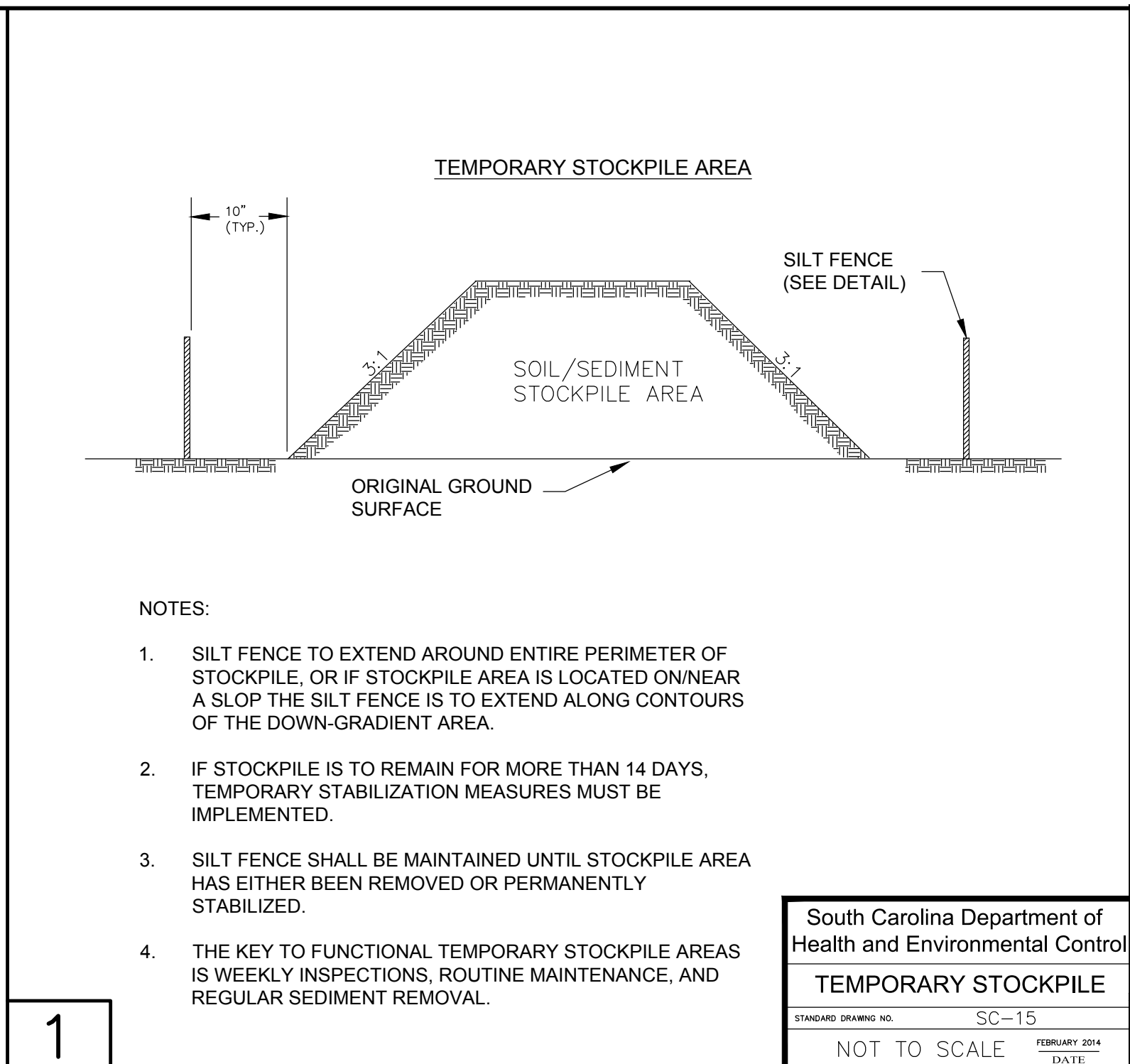
**REVISION HISTORY**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  |             |
| B   | 10/29/20 |             |
| C   | 01/22/21 |             |
| D   | 03/11/21 |             |

SWPPP DETAILS

C3.10





South Carolina Department of Health and Environmental Control

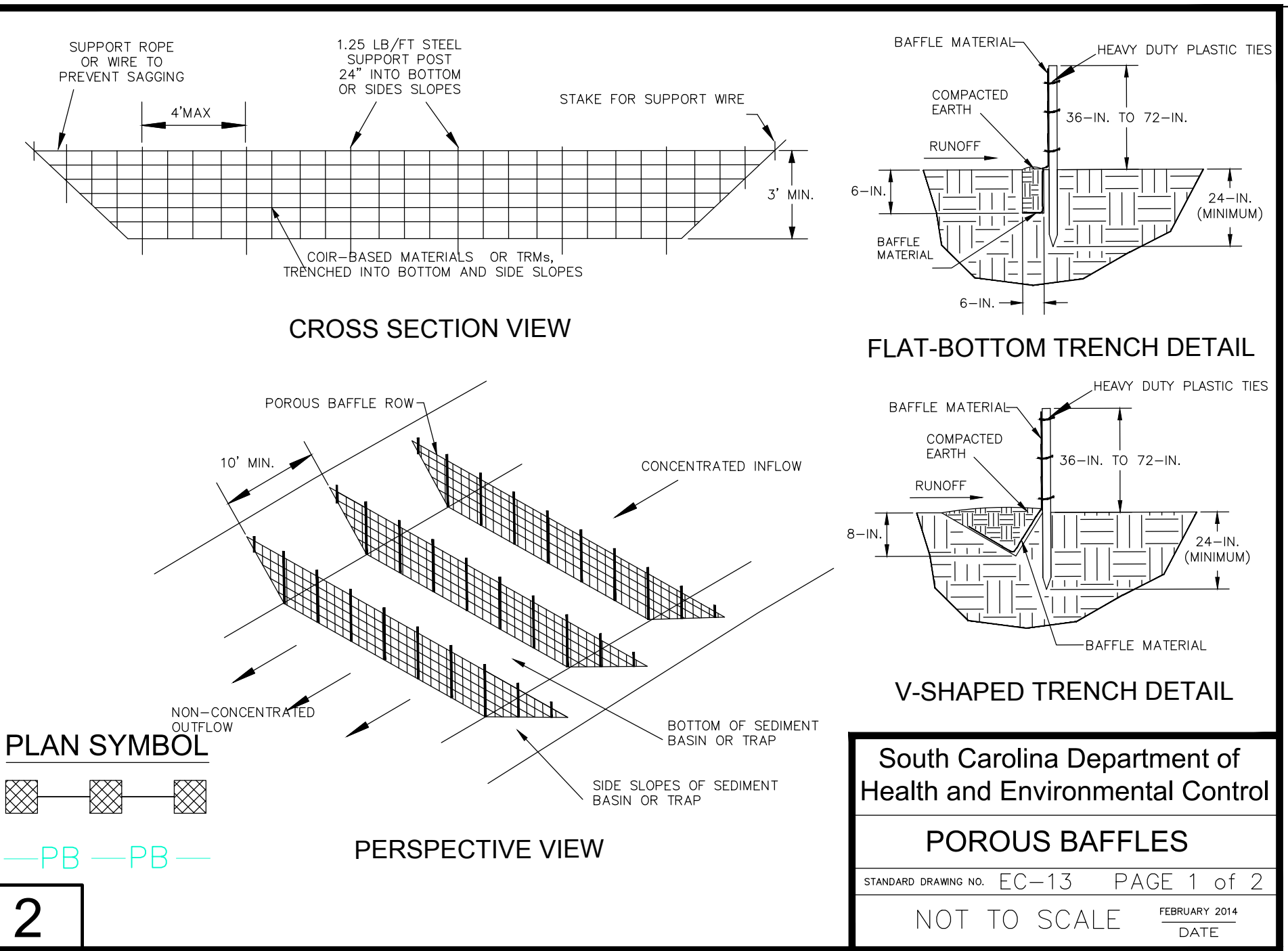
**TEMPORARY STOCKPILE**

STANDARD DRAWING NO. SC-15

FEBRUARY 2014 DATE

NOT TO SCALE

1



**BAFFLES — POST REQUIREMENTS**

- Porous baffle posts must be 60-inch to 96-inch long steel posts that meet, at a minimum, the following physical characteristics:
  - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
  - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
  - Weight 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of baffle material.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 4-feet on center.

**BAFFLES — MATERIAL REQUIREMENTS**

- Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements:
  - Have a light penetration (% openings) between 10–35%;
  - Free of loose straw material;
  - Have a minimum tensile strength of 145 lb/ft; and,
  - Have a minimum width of 48-inches.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled or baffle material may be stapled into ground by using 12-inch staples with a maximum spacing of 12-inches.
- Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.

**BAFFLES — GENERAL NOTES**

- Attach baffle to the steel posts using heavy-duty plastic ties that are evenly spaced along the above ground portion of each post.
- Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean-out.

**BAFFLES — INSPECTION & MAINTENANCE**

- The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
- Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along each row of baffles is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the baffle row or when it reaches the clean-out height of the sediment basin or trap, whichever is reached first.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath each row of baffles, or where the baffle has sagged or collapsed due to runoff overtopping the baffle.
- Check for tears/rips within the baffles, areas where the baffle has begun to decompose, and for any other circumstances that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately.
- Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

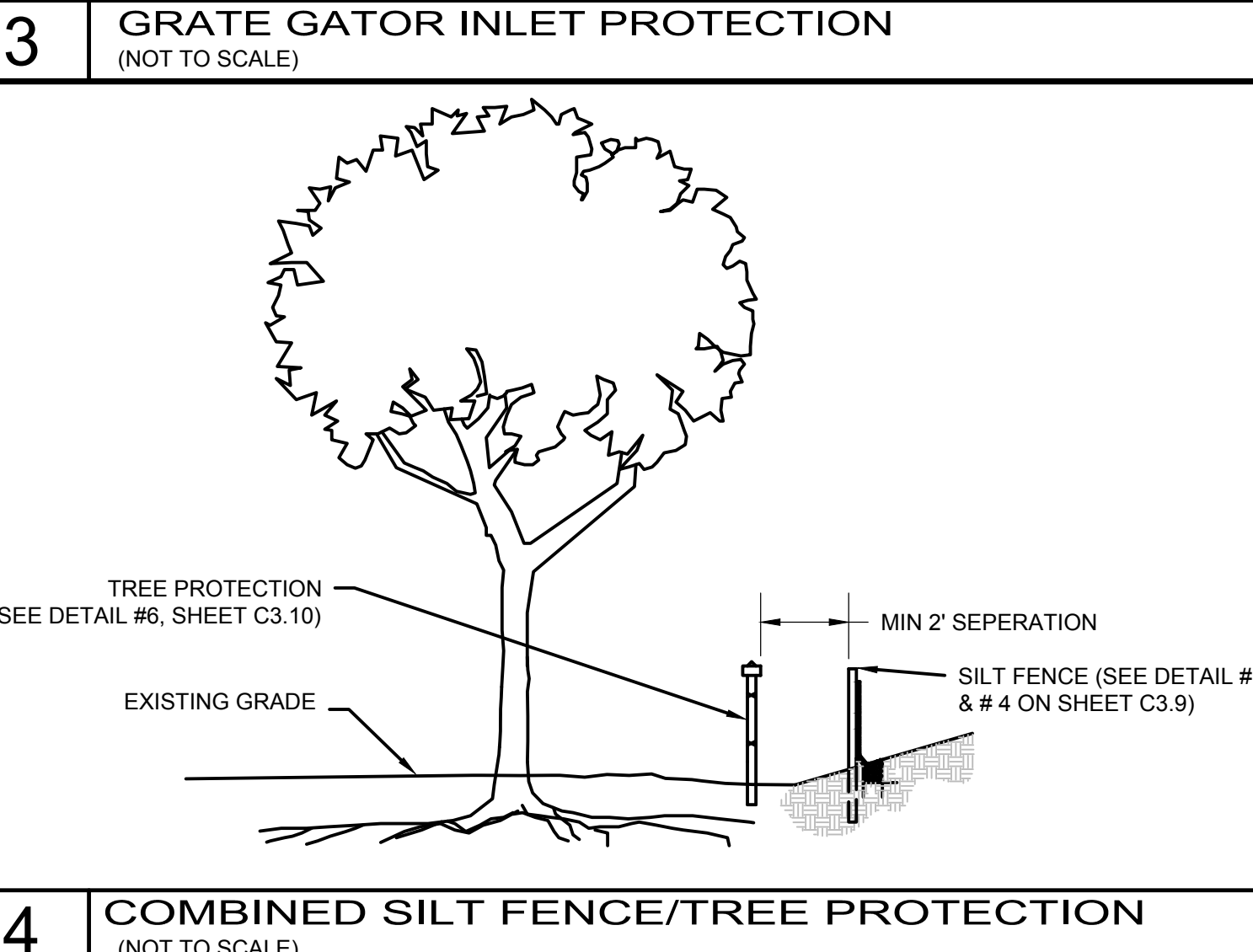
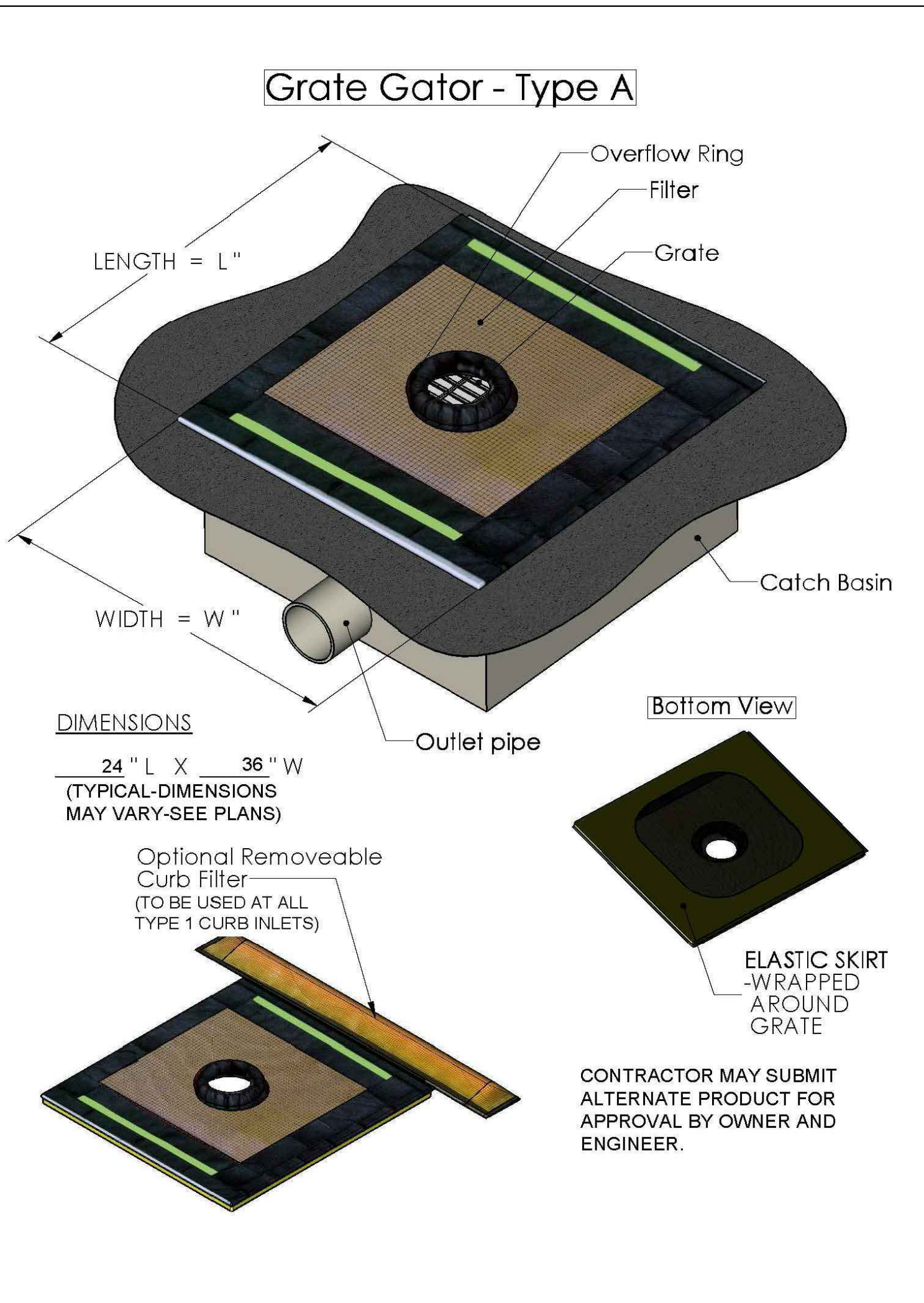
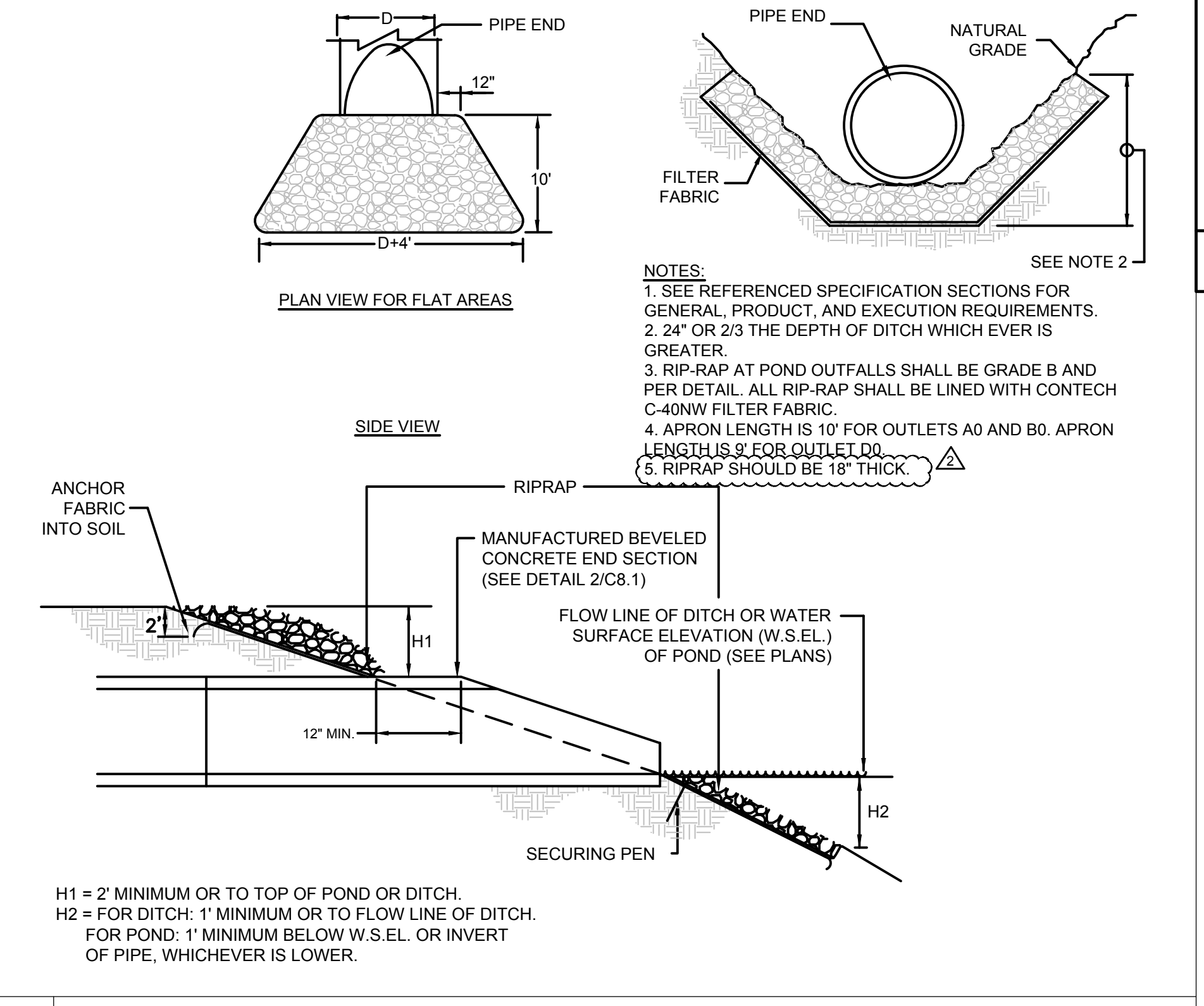
South Carolina Department of Health and Environmental Control

**POROUS BAFFLES**

STANDARD DRAWING NO. SC-13 PAGE 2 of 2

FEBRUARY 2014 DATE

GENERAL NOTES



**SW** SEAMON WHITESIDE

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SOUTH CAROLINA PROFESSIONAL ENGINEER

SEAMON, WHITESIDE & ASSOCIATES, INC.

No. C00472

PAUL M. SEAMON

5/11/21

SOUTH CAROLINA PROFESSIONAL ENGINEER

SEAMON, WHITESIDE & ASSOCIATES, INC.

No. 20961

5/11/21

PAUL M. SEAMON

**HANAHAN RECREATION COMPLEX**

CITY OF HANAHAN

HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867

DATE: 06/12/20

DRAWN BY: BET

CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
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| D | 03/11/21 |
| 2 | 04/01/21 |

SWPPP DETAILS



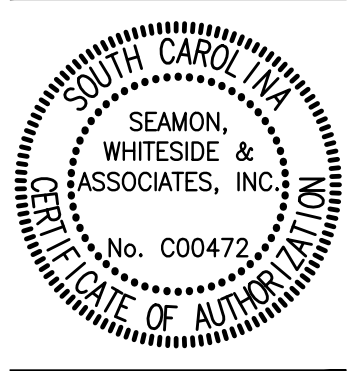
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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OVERALL SITE PLAN

**SITE COVERAGE**

|                        |          |
|------------------------|----------|
| PROPERTY AREA:         | 53.31 AC |
| NEW IMPERVIOUS AREA:   | 6.55 AC  |
| WET POND AREA:         | 2.25 AC  |
| IMPERVIOUS COVERAGE %: | 16.5%    |

**SIDEWALKS TRAILS:**

|                               |
|-------------------------------|
| 44,470 LF (CONCRETE SIDEWALK) |
| 43,870 LF (ASPHALT TRAIL)     |
| 1,000 LF (MULCH TRAIL)        |
| 49,340 LF (TOTAL)             |

**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018.  
 PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**TOTAL SITE ACREAGE:** 53.31 ACRES  
**TOTAL LAND DISTURBANCE:** 40.0 ACRES  
**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

**PARKING CALCULATIONS:**  
 NEW STANDARD SPACES: 309  
 OVERFLOW PARKING: +/- 99  
 HANDICAP SPACES: 14  
 TOTAL: 422

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

**EXISTING UTILITY NOTE:**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

**CONSTRUCTION TRAFFIC NOTE:**  
 NO CONSTRUCTION TRAFFIC FROM 6:30AM - 8:00AM AND 1:30PM - 2:45 PM

- NOTES:**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB, UNLESS OTHERWISE NOTED.
  - WETLANDS ARE NOT TO BE DISTURBED.
  - SEE ARCHITECTURE PLANS FOR BUILDING DIMENSIONS.
  - ALL SITE ROADWAYS TO BE STANDARD DUTY ASPHALT UNLESS OTHERWISE NOTED.
  - SEE ELECTRICAL PLANS FOR LIGHTING.
  - SIDEWALKS ADJACENT TO HEAD IN PARKING TO BE 6' UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO WORK IN SELECTIVE CLEARING AREAS AND REFER TO SPECIFICATION 311000- SITE CLEARING AND EROSION CONTROL.

**SHEET C4.4**

**SHEET C4.3**

**SHEET C4.2**

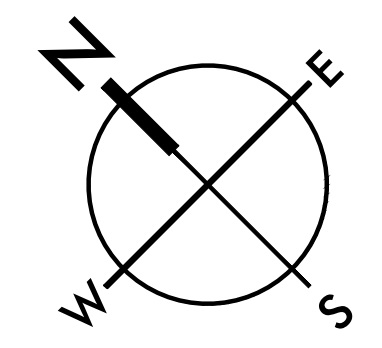
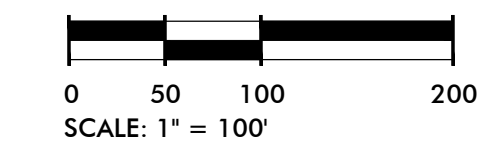
**SHEET C4.1**

- KEY**
- MULTIPURPOSE FIELDS
  - SYNTHETIC TURF FIELD
  - BASKETBALL COURT
  - SAND VOLLEYBALL COURT
  - DOG PARK
  - ASPHALT TENNIS COURTS
  - PLAYGROUND AREA
  - PAVILION
  - RESTROOM BUILDING
  - RECREATION BUILDING
  - MAINTENANCE AREA

**LEGEND**

|  |                                |
|--|--------------------------------|
|  | WETLAND- DO NOT DISTURB        |
|  | WETLAND BUFFER- DO NOT DISTURB |
|  | SELECTIVE CLEARING             |
|  | CONCRETE SIDEWALKS             |
|  | ASPHALT TRAIL                  |
|  | MULCH TRAIL                    |
|  | GABC ROAD                      |
|  | RETAINING WALL                 |

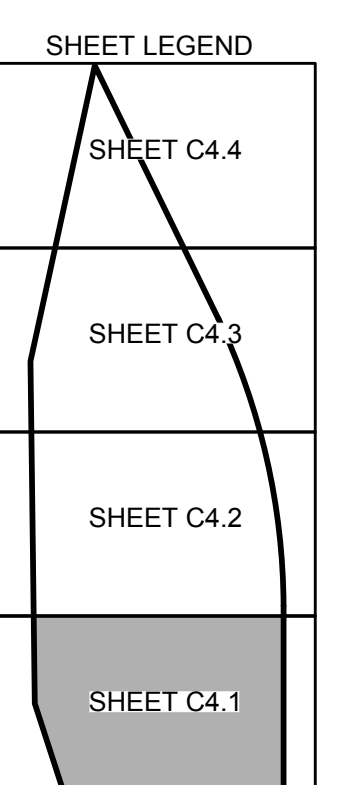
- OWNER FURNISHED, OWNER INSTALLED (OFO) ITEMS**
- PLAYGROUND EQUIPMENT
  - OUTDOOR BLEACHERS
  - MAINTENANCE SHELTER
  - POLE BARN (STRUCTURE AND SLAB)
  - DOG POUND ROOF STRUCTURE





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- KEYNOTE LEGEND**
- CROSSWALK (10/C5.1)
  - SIDEWALK RAMP TYPE A (11/C5.1)
  - SIDEWALK RAMP TYPE P (12/C5.1)
  - SIDEWALK RAMP TYPE O (8/C5.1)
  - SIDEWALK RAMP TYPE Z (2/C5.1)
  - 6" CONCRETE SIDEWALK (7/C5.0)
  - ADA PARKING SIGN (5/C5.1)
  - ADA PARKING SPACE (10/C5.1)
  - DOG PARK ENTRANCE (1/L1.3)
  - 6" HT CHAIN LINK 17" DOUBLE WIDE GATE (2/L1.0)
  - 4" HT CHAIN LINK SINGLE GATE (3/L1.0)
  - 4" HT CHAIN LINK DOUBLE GATE (2/L1.0)
  - 4" HT CHAIN LINK FENCE (1/L1.0)
  - 6" HT CHAIN LINK FENCE (1/L1.0)
  - 28" TALL CHAIN LINK BACKSTOP (1/L1.1)
  - DOUBLE ARM SWING GATE (7/C5.2)
  - SINGLE ARM SWING GATE (4/C5.2)
  - ASPHALT TRAIL (1/C5.2)
  - DRINKING FOUNTAIN (11/L1.2)
  - CONCRETE BLEACHER PAD (11/C5.0)
  - 18" STRAIGHT CURB & GUTTER (6/C5.0)
  - DEPRESSED CURB END (3/C5.1)
  - 18" ROLLED CURB AND GUTTER (5/C5.0)
  - TRANSITION FROM 18" STRAIGHT CURB AND GUTTER TO 18" ROLLED CURB
  - ASPHALT PAVING (2/C5.0)
  - STOP SIGN & BAR (4,7/C5.1)
  - "ONE WAY ONLY" SIGN (2/C5.2)
  - 4" PAINTED WHITE PARKING STRIPE
  - GRASS SEATING BERM (SHEETS C6.0-C6.4 & L2.0-L2.2)
  - TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
  - 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
  - POND FOUNTAIN (3/L1.1)



**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP. THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**TOTAL SITE ACREAGE:** 53.31 ACRES

**TOTAL LAND DISTURBANCE:** 40.0 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

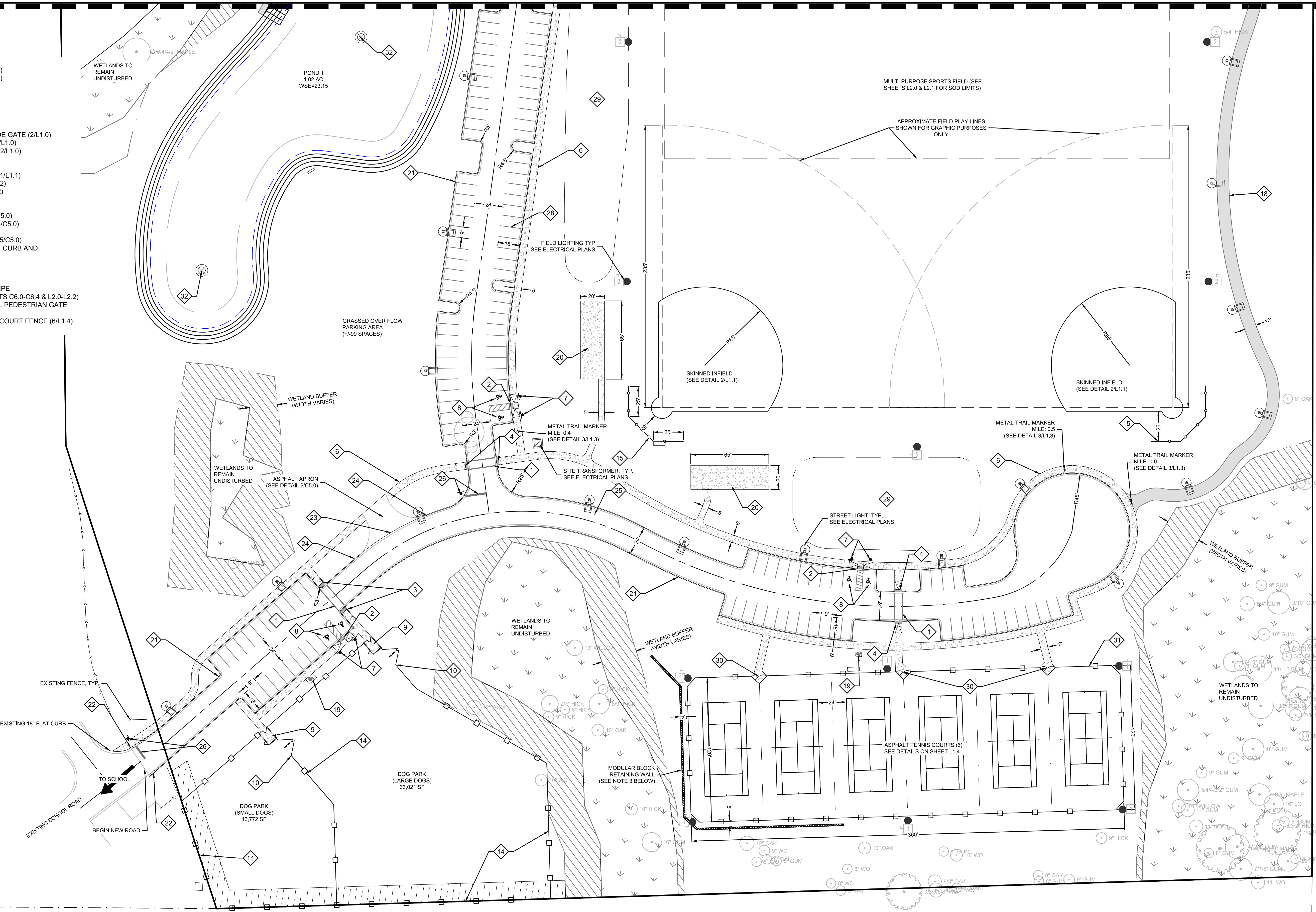
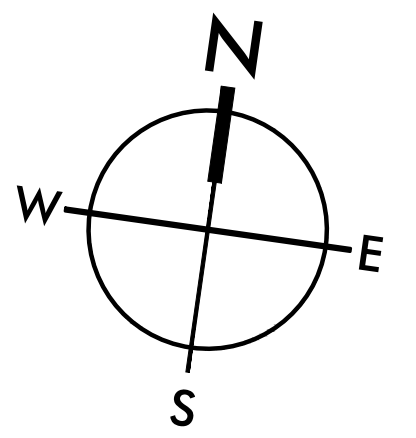
SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

SEE SHEETS ##### - ##### FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

- NOTES:**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.
  - SEE LANDSCAPE DETAILS FOR TENNIS COURT FENCING AND STRIPING DETAILS.
  - RETAINING WALL(S) SHOWN IS FOR GENERAL INFORMATION ONLY AND IS NOT TO BE INTERPRETED AS A FINAL DESIGN TO BE USED FOR CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE COMPLETE DESIGN DRAWINGS (INCLUDING GEOTECHNICAL INVESTIGATIONS AS REQUIRED) PREPARED AND STAMPED BY A SC REGISTERED STRUCTURAL ENGINEER. THE WALL(S) IS TO BE DESIGNED WITH CONSIDERATION OF ALL APPURTENANT AND ADJOINING IMPROVEMENTS SHOWN AND UTILIZING MATERIALS INDICATED IN THESE CONSTRUCTION DOCUMENTS (IF SPECIFIC MATERIALS ARE NOT INDICATED, CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER FOR MATERIAL SELECTION). CONTRACTOR SHALL PROVIDE THE REQUIRED DRAWINGS TO SW+ AND THE OWNER FOR REVIEW PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |

**SITE PLAN**

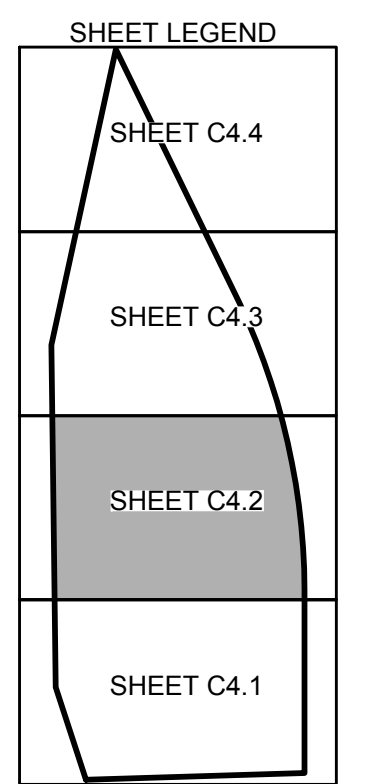
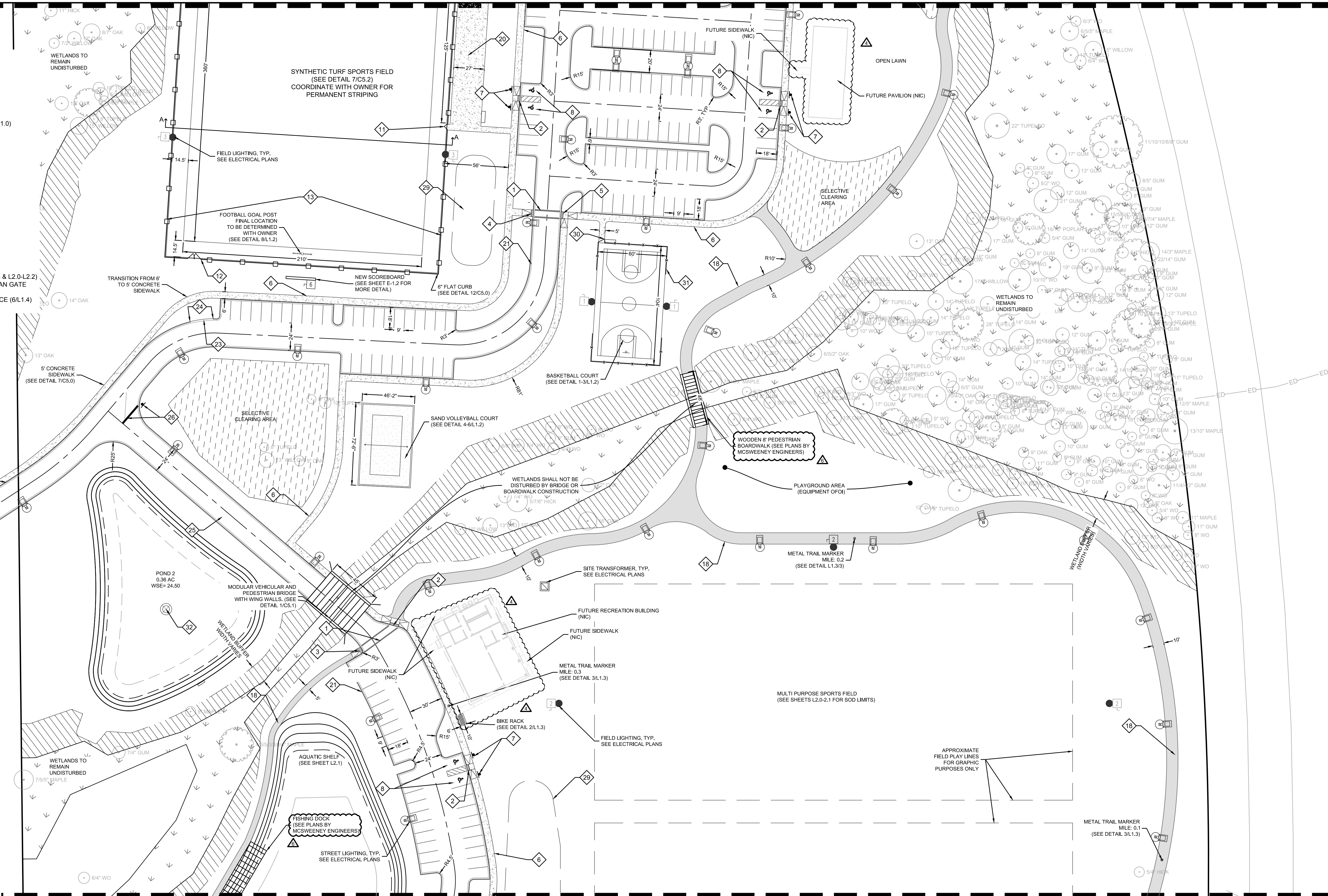
C4.1



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**KEYNOTE LEGEND**

1. CROSSWALK (10/C5.1)
2. SIDEWALK RAMP TYPE A (11/C5.1)
3. SIDEWALK RAMP TYPE P (12/C5.1)
4. SIDEWALK RAMP TYPE O (8/C5.1)
5. SIDEWALK RAMP TYPE Z (2/C5.1)
6. 6" CONCRETE SIDEWALK (7/C5.0)
7. ADA PARKING SIGN (5/C5.1)
8. ADA PARKING SPACE (10/C5.1)
9. DOG PARK ENTRANCE (1/L1.3)
10. 6' HT CHAIN LINK 17' DOUBLE WIDE GATE (2/L1.0)
11. 4' HT CHAIN LINK SINGLE GATE (3/L1.0)
12. 4' HT CHAIN LINK DOUBLE GATE (2/L1.0)
13. 4' HT CHAIN LINK FENCE (1/L1.0)
14. 6' HT CHAIN LINK FENCE (1/L1.0)
15. 28" TALL CHAIN LINK BACKSTOP (1/L1.1)
16. DOUBLE ARM SWING GATE (7/C5.2)
17. SINGLE ARM SWING GATE (4/C5.2)
18. ASPHALT TRAIL (1/C5.2)
19. DRINKING FOUNTAIN (11/L1.2)
20. CONCRETE BLEACHER PAD (11/C5.0)
21. 18" STRAIGHT CURB & GUTTER (6/C5.0)
22. DEPRESSED CURB END (3/C5.1)
23. 18" ROLLED CURB AND GUTTER (5/C5.0)
24. TRANSITION FROM 18" STRAIGHT CURB AND GUTTER TO 18" ROLLED CURB
25. ASPHALT PAVING (2/C5.0)
26. STOP SIGN & BAR (4/7/C5.1)
27. "ONE WAY ONLY" SIGN (2/C5.2)
28. 4" PAINTED WHITE PARKING STRIPE
29. GRASSED SEATING BERM (SHEETS C6.0-C6.4 & L2.0-L2.2)
30. TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
31. 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
32. POND FOUNTAIN (3/L1.1)



**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**TOTAL SITE ACREAGE:** 53.31 ACRES

**TOTAL LAND DISTURBANCE:** 40.0 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

SEE SHEETS L1.0 - L1.4 FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

**NOTES:**

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2. CONSTRUCTION TRAFFIC ACROSS MODULAR BRIDGE MUST BE COORDINATED WITH MANUFACTURER FOR WEIGHT LIMITS.

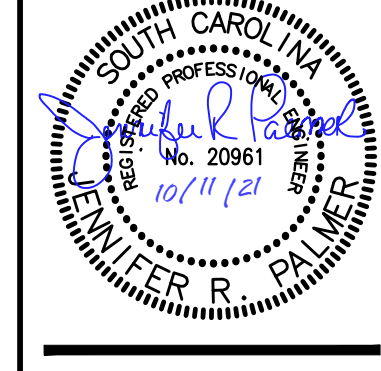
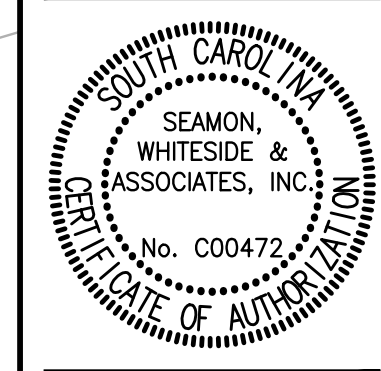
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**SW SEAMONWHITESIDE**

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 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

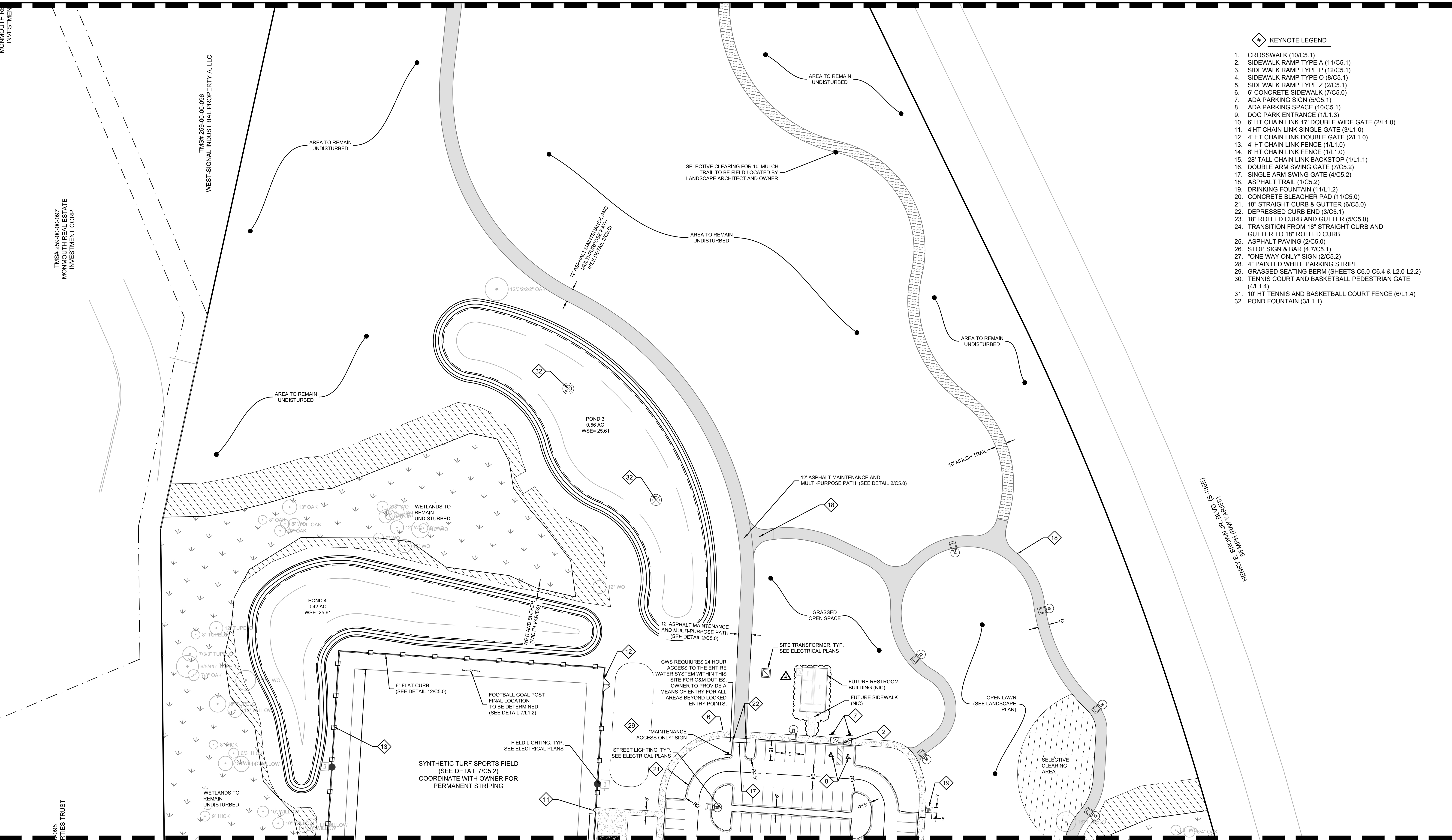
**REVISION HISTORY**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  | 4 06/18/21  |
| B   | 10/29/20 |             |
| C   | 01/22/21 | 6 10/11/21  |
| D   | 03/11/21 |             |

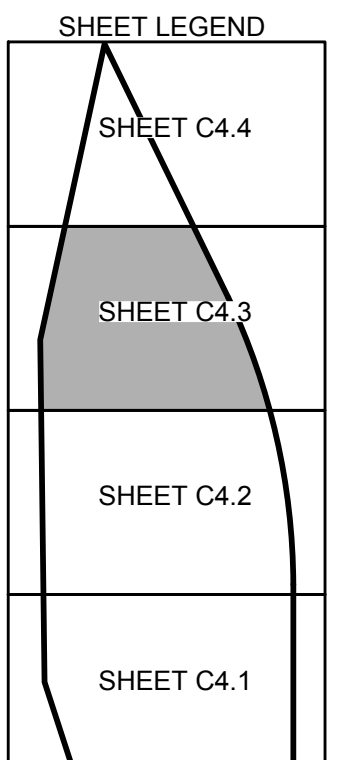
**SITE PLAN**



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- KEYNOTE LEGEND**
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  - 4' HT CHAIN LINK FENCE (1/L1.0)
  - 6' HT CHAIN LINK FENCE (1/L1.0)
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  - DOUBLE ARM SWING GATE (7/C5.2)
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  - ASPHALT TRAIL (1/C5.2)
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  - 18" STRAIGHT CURB & GUTTER (6/C5.0)
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  - 18" ROLLED CURB AND GUTTER (5/C5.0)
  - TRANSITION FROM 18" STRAIGHT CURB AND GUTTER TO 18" ROLLED CURB
  - ASPHALT PAVING (2/C5.0)
  - STOP SIGN & BAR (4/7/C5.1)
  - "ONE WAY ONLY" SIGN (2/C5.2)
  - 4" PAINTED WHITE PARKING STRIPE
  - GRASSED SEATING BERM (SHEETS C6.0-C6.4 & L2.0-L2.2)
  - TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
  - 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
  - POND FOUNTAIN (3/L1.1)



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**TOTAL SITE ACREAGE:** 53.31 ACRES  
**TOTAL LAND DISTURBANCE:** 40.0 ACRES

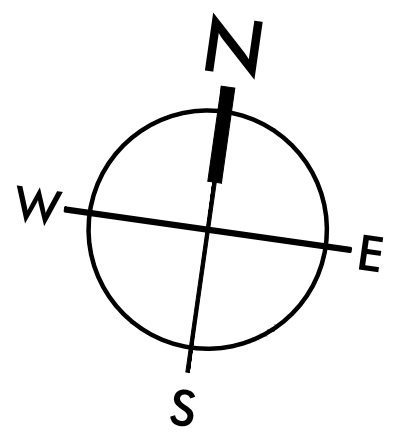
**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

SEE SHEETS L1.0 - L1.4 FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

**NOTES:**  
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

|   |          |   |          |
|---|----------|---|----------|
| A | 6/12/20  | 4 | 06/18/21 |
| B | 10/29/20 |   |          |
| C | 01/22/21 |   |          |
| D | 03/11/21 |   |          |

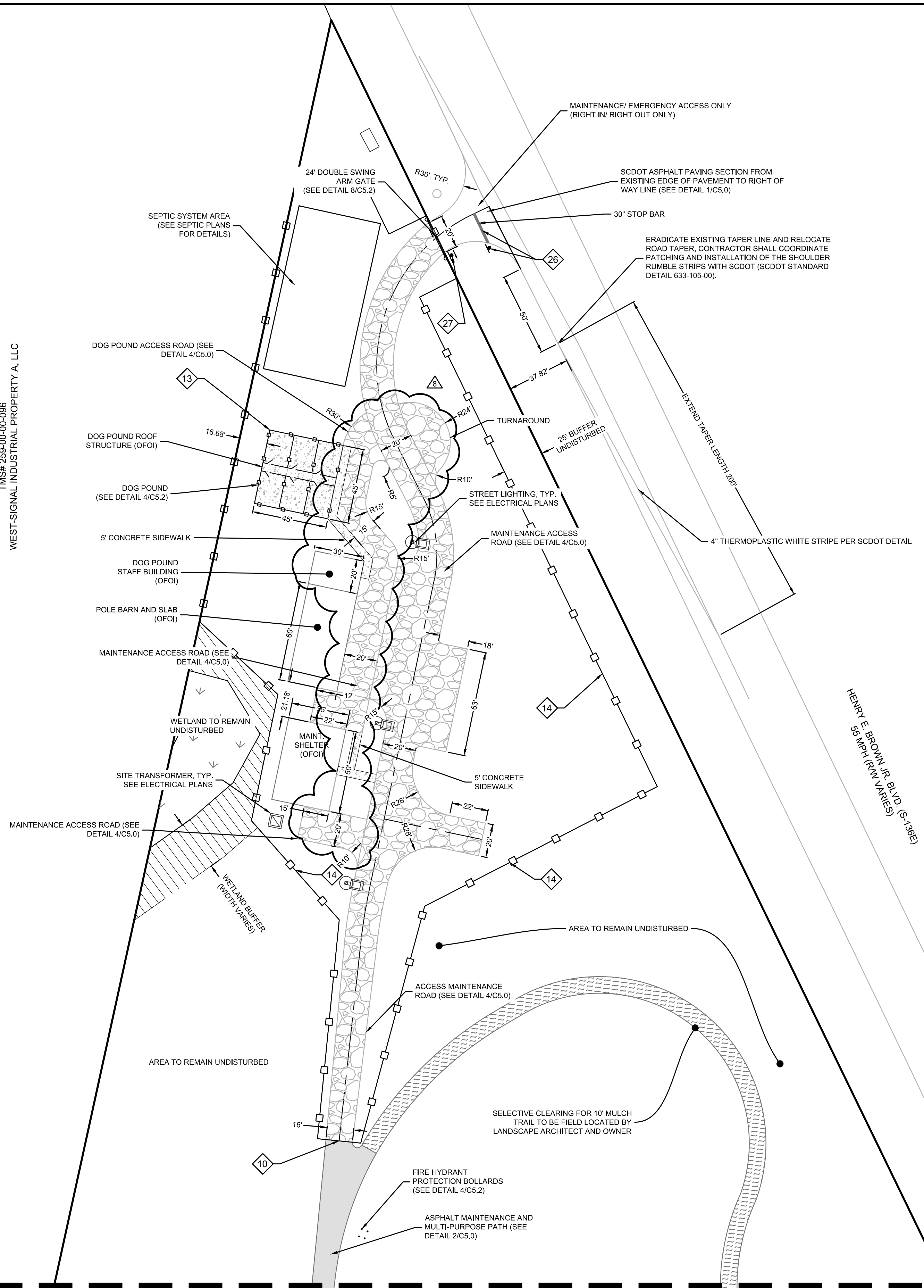
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C4.3



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TMS# 259-00-00-086  
 WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC



- KEYNOTE LEGEND**
- CROSSWALK (10/C5.1)
  - SIDEWALK RAMP TYPE A (11/C5.1)
  - SIDEWALK RAMP TYPE P (12/C5.1)
  - SIDEWALK RAMP TYPE D (8/C5.1)
  - SIDEWALK RAMP TYPE Z (2/C5.1)
  - 6' CONCRETE SIDEWALK (7/C5.0)
  - ADA PARKING SIGN (5/C5.1)
  - ADA PARKING SPACE (10/C5.1)
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  - 4' HT CHAIN LINK FENCE (1/L1.0)
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  - TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
  - 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
  - POND FOUNTAIN (3/L1.1)

**SCDOT NOTE:**  
 WHERE ANY PORTION OF THE ADJACENT SCDOT TRAVEL LANE SURFACE THAT IS DAMAGED ALONG S-136, THE CONTRACTOR SHALL REPLACE THE FULL WIDTH OF THE LANE BY MILLING 2" AND REPAVING PER SCDOT STANDARDS FOR THE LENGTH OF THE DAMAGE PLUS 10 FEET AT EACH END.

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 SUMMERVILLE, SC 843.972.0710  
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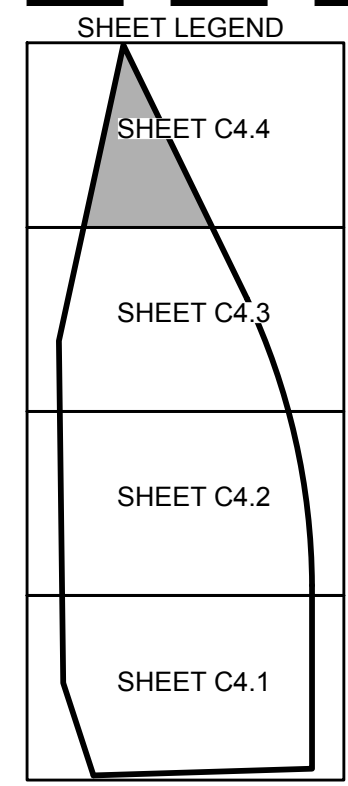
**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

| REV | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  |             |
| B   | 10/29/20 |             |
| C   | 01/22/21 | 6 10/11/21  |
| D   | 03/11/21 | 8 12/22/22  |
| 2   | 04/01/21 |             |

**SITE PLAN**



**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).  
**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE "X". SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.  
**TOTAL SITE ACREAGE:** 53.31 ACRES  
**TOTAL LAND DISTURBANCE:** 40.0 ACRES  
**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

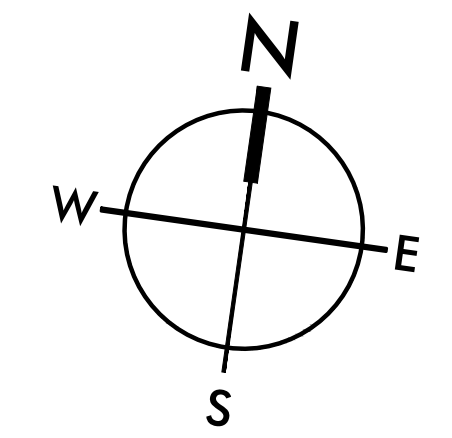
SEE SHEETS L1.0 - L1.4 FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

**NOTES:**  
 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

0 20 40 80  
 SCALE: 1" = 40'





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| ITEM:                        | MATERIAL:                                      | SCDOT SPECIFICATION SECTION: |
|------------------------------|--|------------------------------|
| SUBGRADE                     | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL    | SECTION 208                  |
| BASE COURSE                  | HOT MIX ASPHALT AGGREGATE BASE COURSE (TYPE A) | SECTION 310                  |
| TACK COAT                    | ASPHALT BINDER OR EMULSIFIED ASPHALT           | SECTION 401                  |
| INTERMEDIATE (BINDER) COURSE | HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B)   | SECTION 402                  |
| SURFACE COURSE               | HOT MIX ASPHALT SURFACE COURSE (TYPE B)        | SECTION 403                  |

**NOTES:**  
 1. SEE REFERENCED SCDOT STANDARD SPECIFICATION SECTIONS FOR MATERIAL, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS.  
 2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED PAVEMENTS. CONTRACTOR MUST COORDINATE REQUIRED GEOTECHNICAL TESTING & INSPECTION TO ENSURE THAT SUBGRADE AND PAVEMENT STRENGTH REQUIREMENTS ARE MET.

| ITEM:          | MATERIAL:                                   | SWA SPECIFICATION SECTION NAME: |
|----------------|---|---------------------------------|
| SUBGRADE       | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL | EARTH MOVING                    |
| BASE COURSE    | GRADED AGGREGATE BASE COURSE                | EARTH MOVING                    |
| SURFACE COURSE | HOT MIX ASPHALT SURFACE COURSE (TYPE C)     | ASPHALT PAVING                  |

**NOTE:**  
 1. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED PAVEMENTS. CONTRACTOR MUST COORDINATE REQUIRED GEOTECHNICAL TESTING & INSPECTION TO ENSURE THAT SUBGRADE AND PAVEMENT STRENGTH REQUIREMENTS ARE MET.

| ITEM:             | MATERIAL:                                   | SWA SPECIFICATION SECTION NAME: |
|-------------------|---|---------------------------------|
| SUBGRADE          | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL | EARTH MOVING                    |
| BASE COURSE       | GRADED AGGREGATE BASE COURSE                | EARTH MOVING                    |
| CONCRETE PAVEMENT | CAST-IN-PLACE CONCRETE                      | CONCRETE PAVING                 |

**NOTES:**  
 1. WHERE SHOWN, SEE PLAN FOR EXPANSION AND CONTROL JOINT LOCATIONS. OTHERWISE, SEE SPECS FOR REQUIRED LOCATION AND SPACING.  
 2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED PAVEMENTS. CONTRACTOR MUST COORDINATE REQUIRED GEOTECHNICAL TESTING & INSPECTION TO ENSURE THAT SUBGRADE AND PAVEMENT STRENGTH REQUIREMENTS ARE MET.

| ITEM:       | MATERIAL:                                   | SWA SPECIFICATION SECTION NAME: |
|-------------|---|---------------------------------|
| SUBGRADE    | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL | EARTH MOVING                    |
| BASE COURSE | GRADED AGGREGATE BASE COURSE                | EARTH MOVING                    |

**1 ASPHALT PAVING WITHIN SCDOT R/W**  
(NOT TO SCALE)

**2 ASPHALT PAVING SECTION**  
(NOT TO SCALE)

**3 HEAVY DUTY CONCRETE PAVING SECTION**  
(NOT TO SCALE)

**4 MAINTENANCE ACCESS ROAD PAVING SECTION**  
(NOT TO SCALE)

**NOTES:**  
 1. ALTERNATE SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB.  
 2. UNLESS OTHERWISE SHOWN ON DRAWINGS, LOCATE CONTROL JOINTS AT 10' INTERVALS AND EXPANSION JOINTS AT 50' INTERVALS. WHERE CURB IS ADJACENT TO CONCRETE WALK, JOINTS SHALL COINCIDE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**TYPICAL DOWNSLOPE SECTION**      **ALTERNATE UPSLOPE SECTION**

**NOTES:**  
 1. ALTERNATE UPSLOPE SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB.  
 2. UNLESS OTHERWISE SHOWN ON DRAWINGS, LOCATE CONTROL JOINTS AT 10' INTERVALS AND EXPANSION JOINTS AT 50' INTERVALS. WHERE CURB IS ADJACENT TO CONCRETE WALK, JOINTS SHALL COINCIDE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**TYPICAL DOWNSLOPE SECTION**      **ALTERNATE UPSLOPE SECTION**

**NOTES:**  
 1. SIDEWALK CROSS SLOPE NOT TO EXCEED 2%.  
 2. SIDEWALK TO HAVE LIGHT BROOM FINISH, PERPENDICULAR TO DIRECTION OF TRAVEL.  
 3. SEE PLAN FOR SIDEWALK WIDTH.  
 4. UNLESS OTHERWISE SHOWN ON DRAWINGS, SPACE CONTROL JOINTS AT TWICE THE SIDEWALK WIDTH, NOT TO EXCEED 10'. SPACE EXPANSION JOINTS TO COINCIDE WITH CONTROL JOINTS, NOT TO EXCEED 50'. WHERE CURB IS ADJACENT TO CONCRETE WALK, JOINTS SHALL COINCIDE. SEE SPECIFICATIONS FOR ADDITIONAL INFO.

**CONTROL JOINT (SEE NOTE #4)**      **EXPANSION JOINT (SEE NOTE #4)**

**NOTES:**  
 1. SEE SIDEWALK SECTION DETAIL FOR CONTROL AND EXPANSION JOINT INFORMATION.  
 2. SIDEWALK JOINTS SHALL COINCIDE WITH CURB JOINTS UNLESS OTHERWISE NOTED.  
 3. SIDEWALK TO HAVE LIGHT BROOM FINISH, PERPENDICULAR TO DIRECTION OF TRAVEL.

**PAVEMENT SECTION (SEE DETAIL & SPECIFICATIONS)**

**5 18" ROLL CURB AND GUTTER**  
(NOT TO SCALE)

**6 18" STRAIGHT CURB AND GUTTER**  
(NOT TO SCALE)

**7 SIDEWALK SECTION**  
(NOT TO SCALE)

**8 CONCRETE SIDEWALK ADJACENT TO CURB**  
(NOT TO SCALE)

**NOTES:**  
 1. CROSS SLOPE OF SIDEWALK NOT TO EXCEED 2%.  
 2. SIDEWALK AND CURB SPACING VARIES, SEE PLAN FOR SIDEWALK LOCATION.

**INVERTED PARABOLIC CROWN VARIES SEE GRADING PLAN**

**NOTES:**  
 1. CROSS SLOPE OF SIDEWALK NOT TO EXCEED 2%.  
 2. SIDEWALK AND CURB SPACING VARIES, SEE PLAN FOR SIDEWALK LOCATION.

| ITEM:             | MATERIAL:                                   | SWA SPECIFICATION SECTION NAME: |
|-------------------|---|---------------------------------|
| SUBGRADE          | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL | EARTH MOVING                    |
| CONCRETE PAVEMENT | CAST-IN-PLACE CONCRETE                      | CONCRETE PAVING                 |

**NOTES:**  
 1. WHERE SHOWN, SEE PLAN FOR EXPANSION AND CONTROL JOINT LOCATIONS. OTHERWISE, SEE SPECS FOR REQUIRED LOCATION AND SPACING.  
 2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED PAVEMENTS. CONTRACTOR MUST COORDINATE REQUIRED GEOTECHNICAL TESTING & INSPECTION TO ENSURE THAT SUBGRADE AND PAVEMENT STRENGTH REQUIREMENTS ARE MET.  
 3. 5" THICK PAVING SECTION FOR BLEACHER PAD. 4" THICK PAVING SECTION FOR BASKETBALL COURT.

**NOTES:**  
 1. CONTRACTOR MUST INSTALL CURB AND SYNTHETIC TURF PER MANUFACTURER SPECIFICATIONS.

**9 TYPICAL INVERTED CROWN SECTION - WITH PARKING**  
(NOT TO SCALE)

**10 TYPICAL CROWN CROSS SECTION WITH PARKING**  
(NOT TO SCALE)

**11 CONCRETE PAVING SECTION**  
(NOT TO SCALE)

**12 6" CONCRETE FLAT CURB**  
(NOT TO SCALE)

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 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

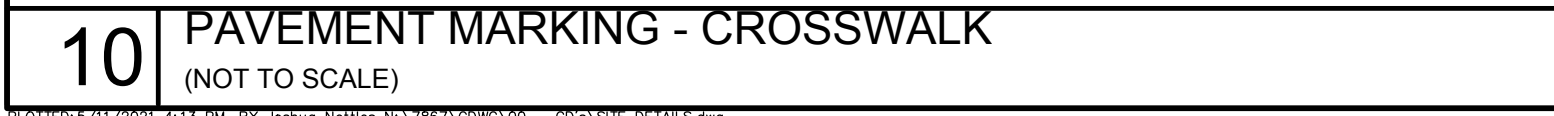
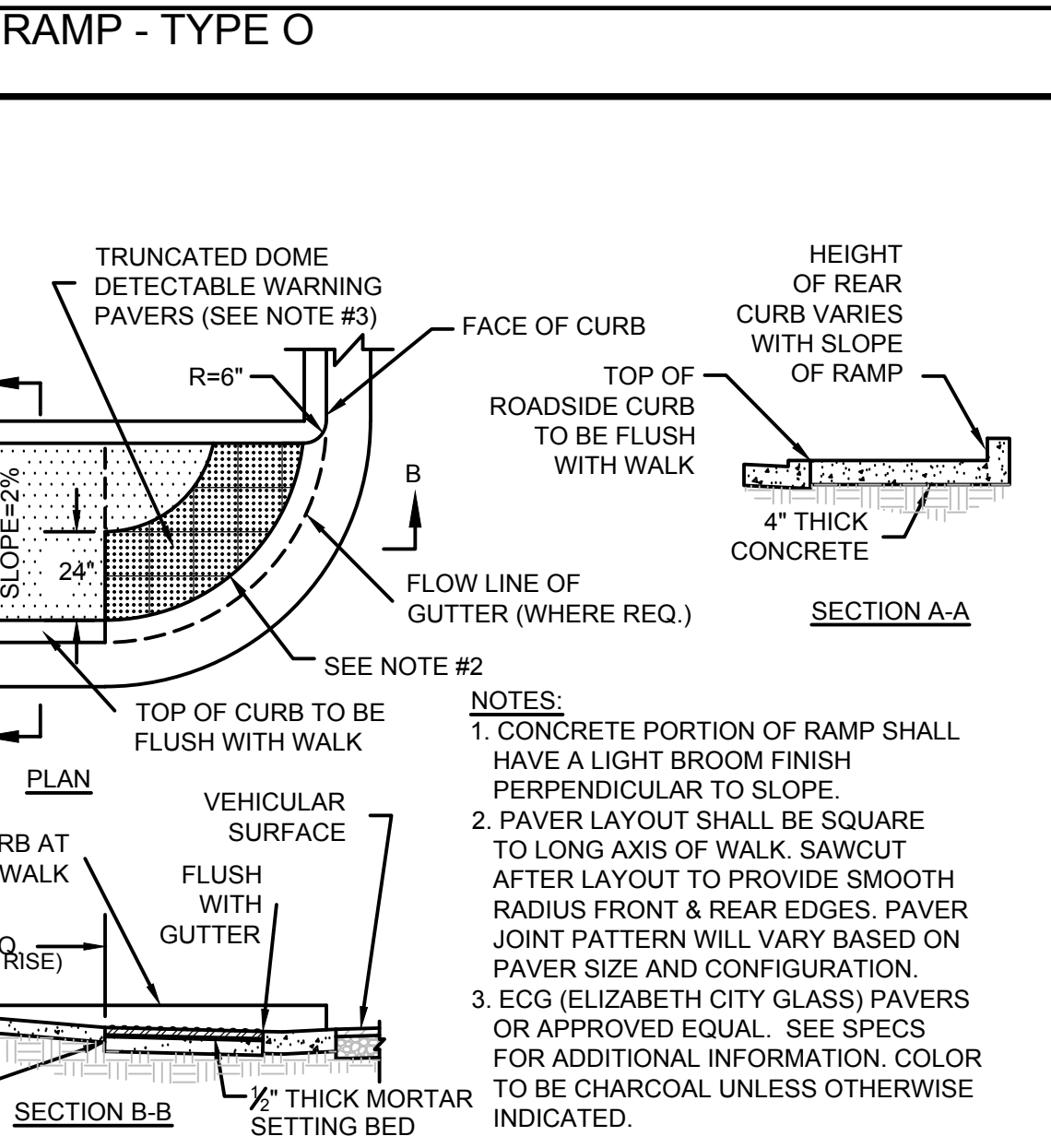
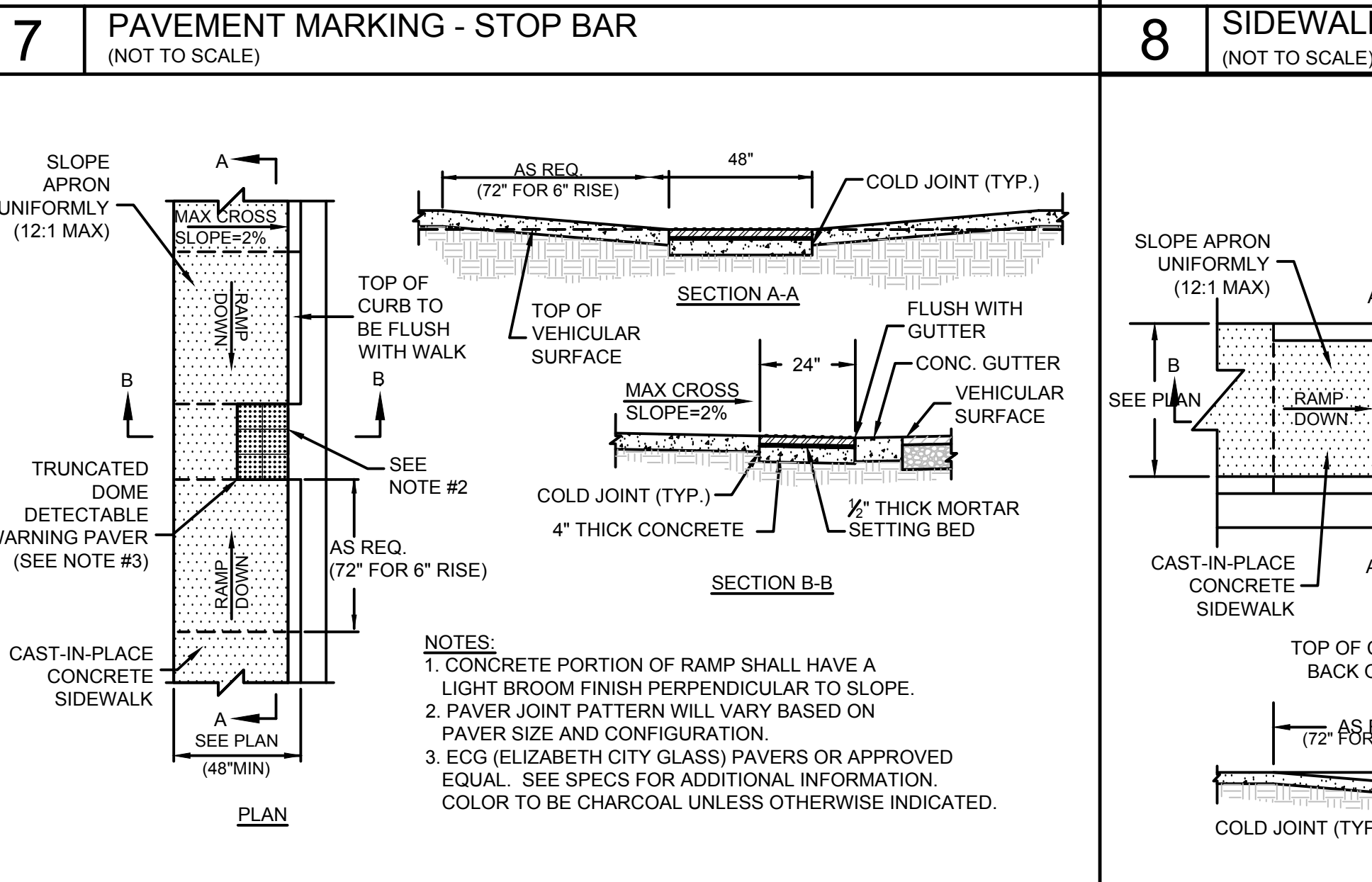
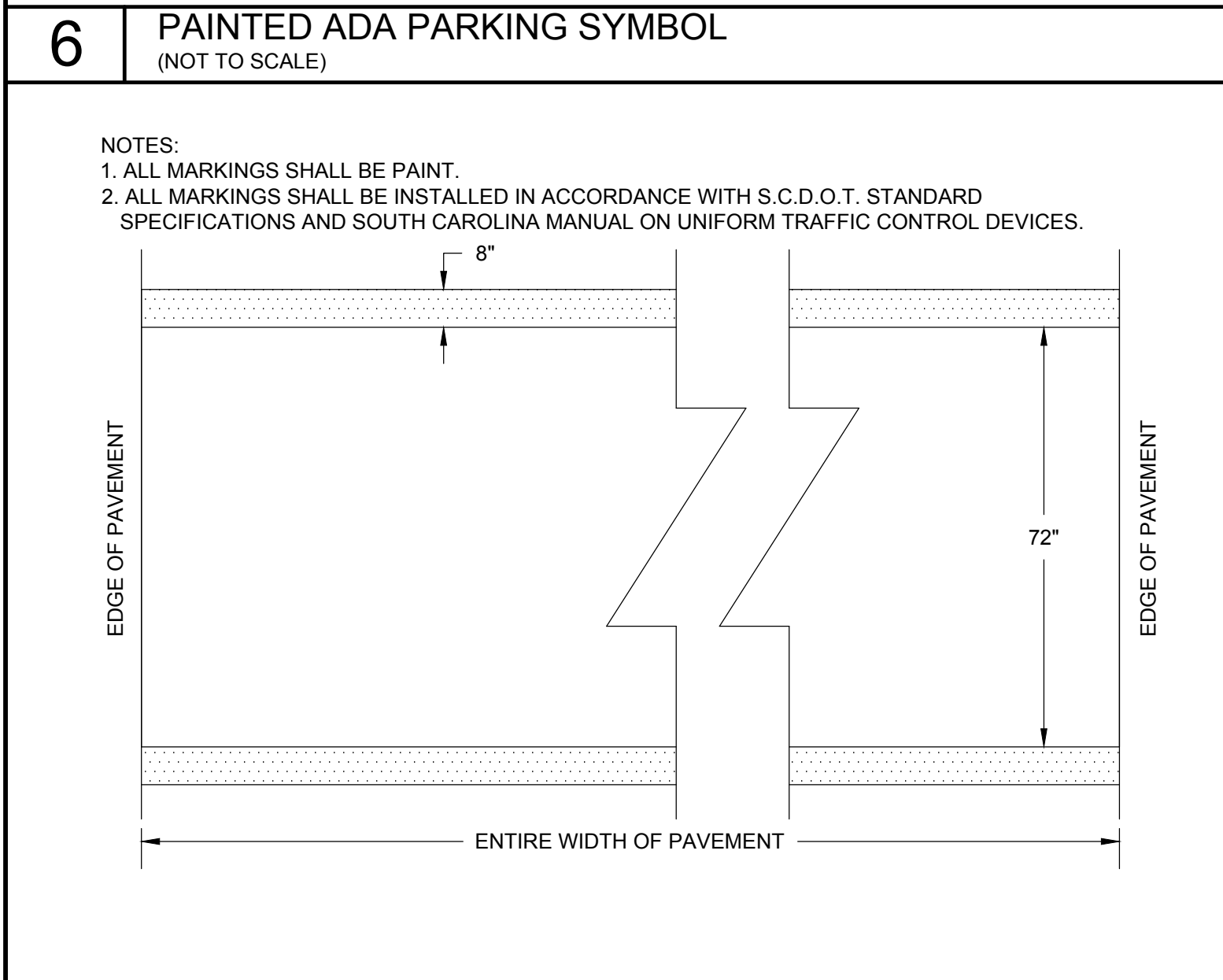
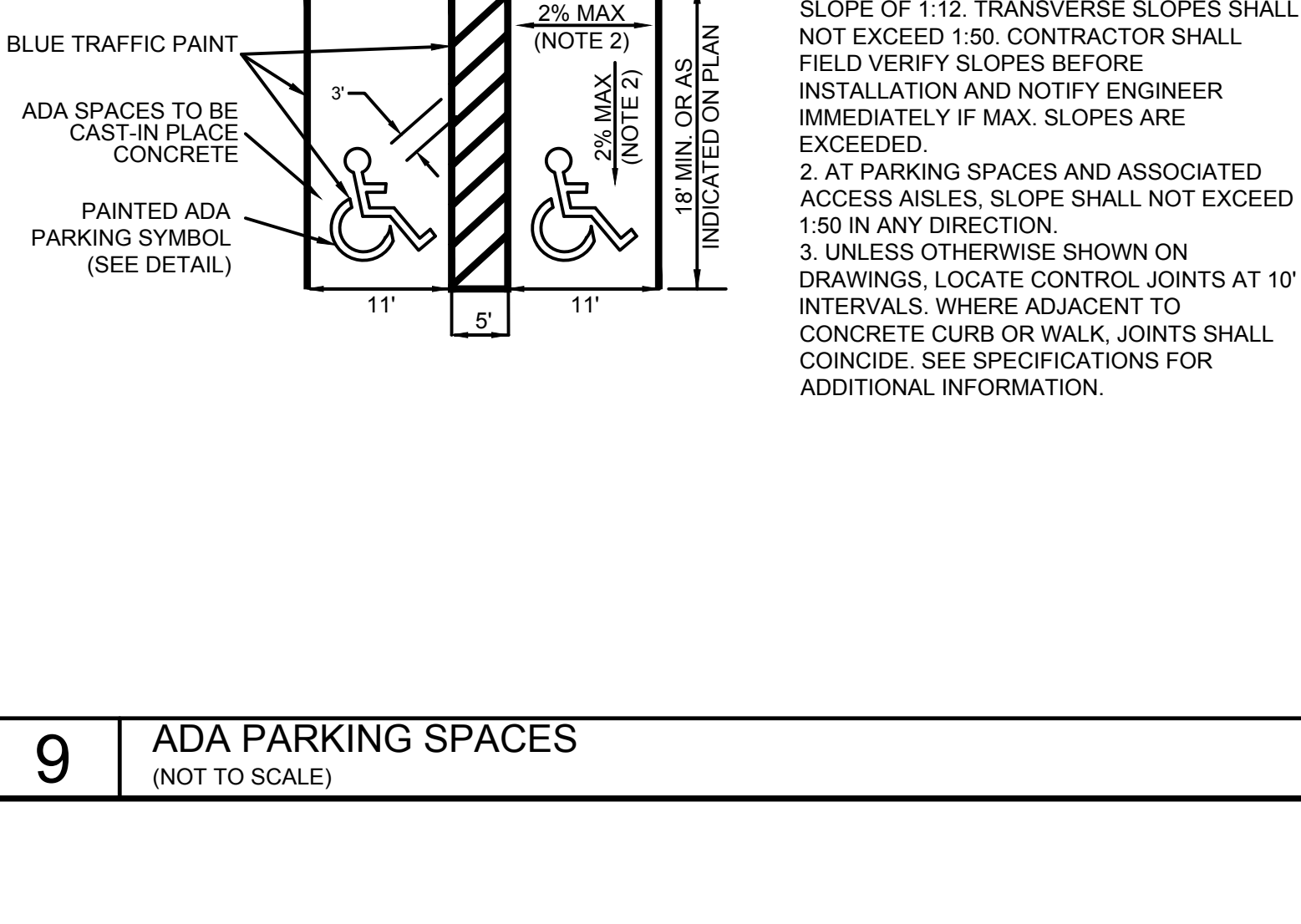
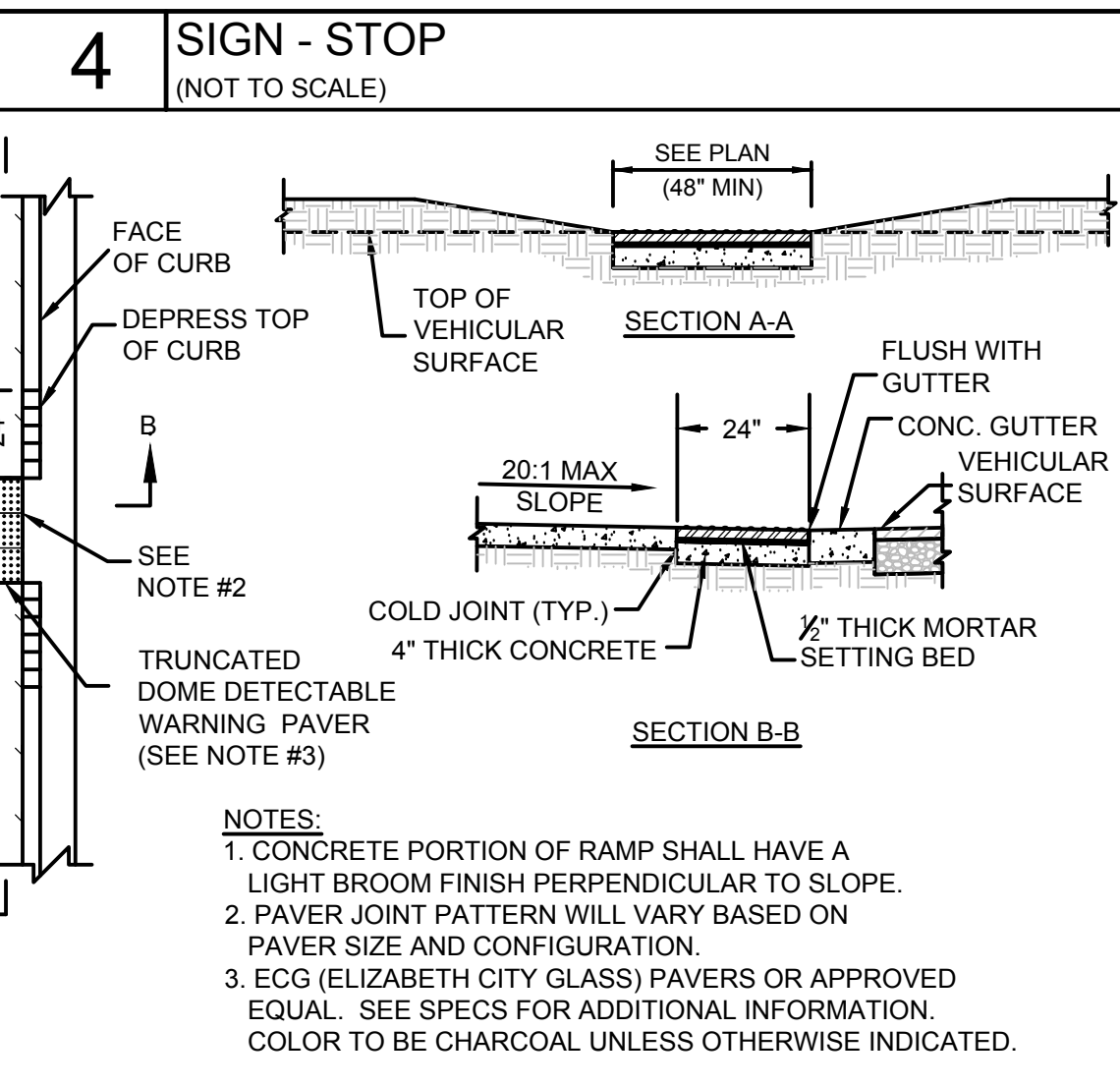
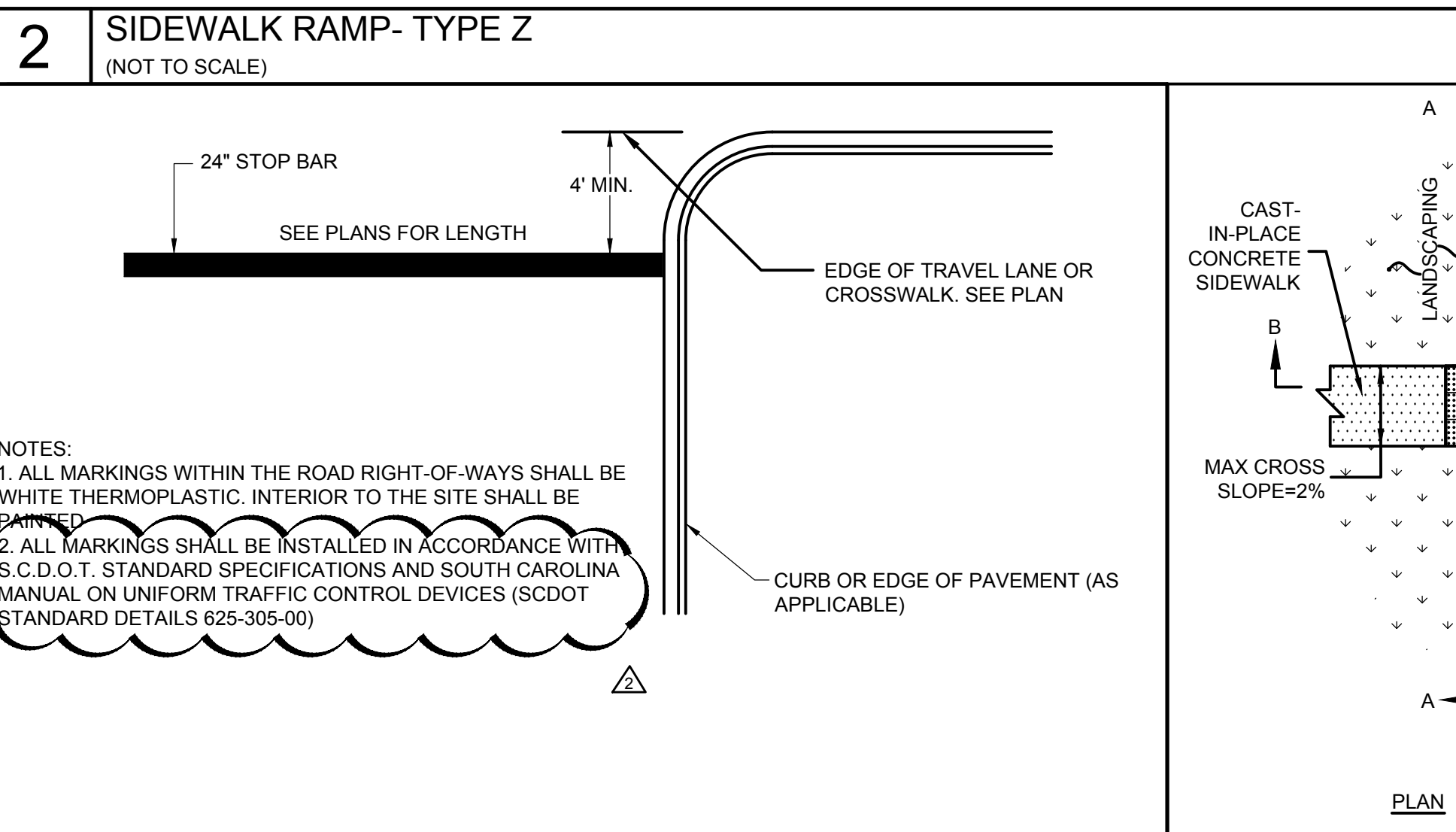
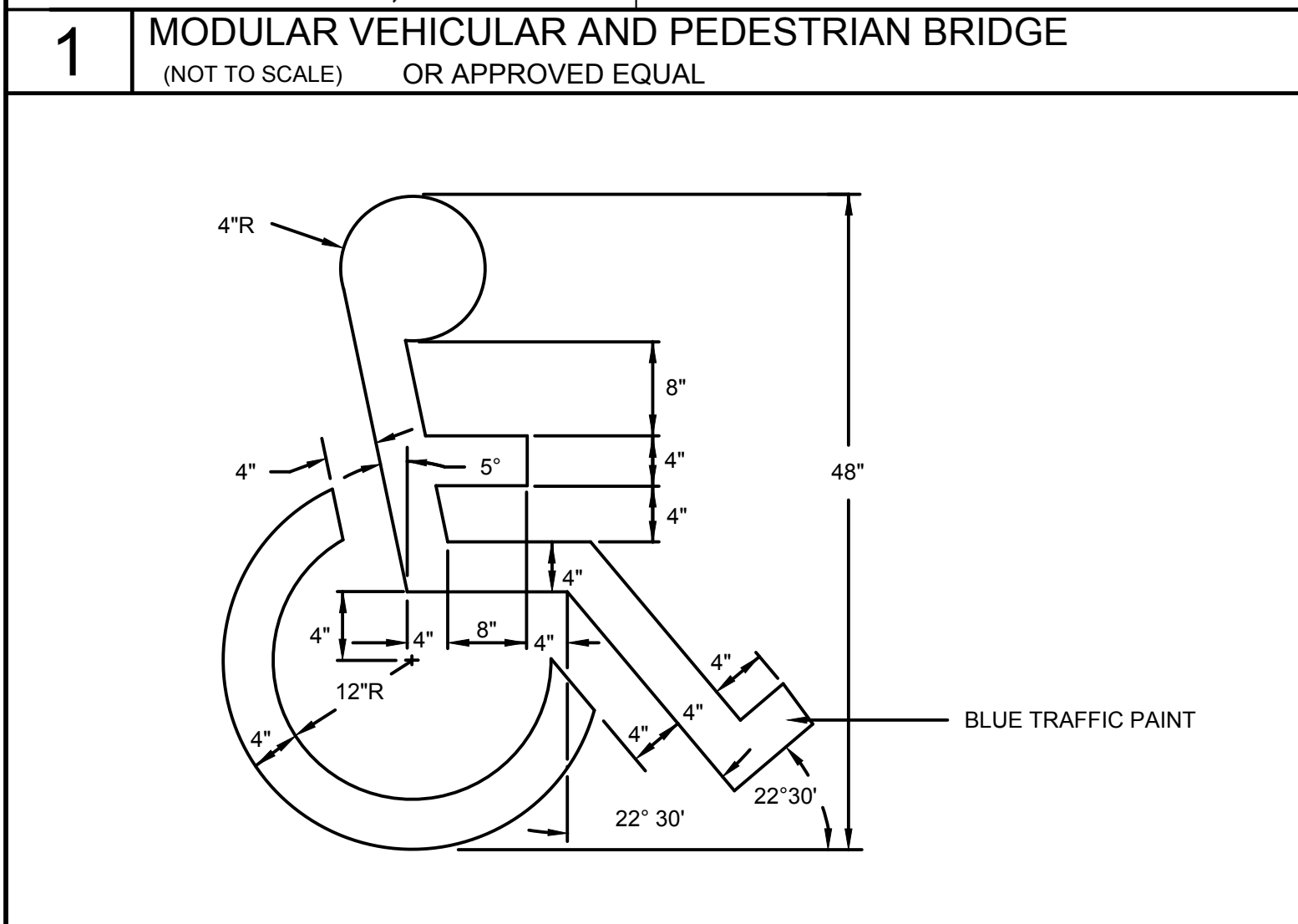
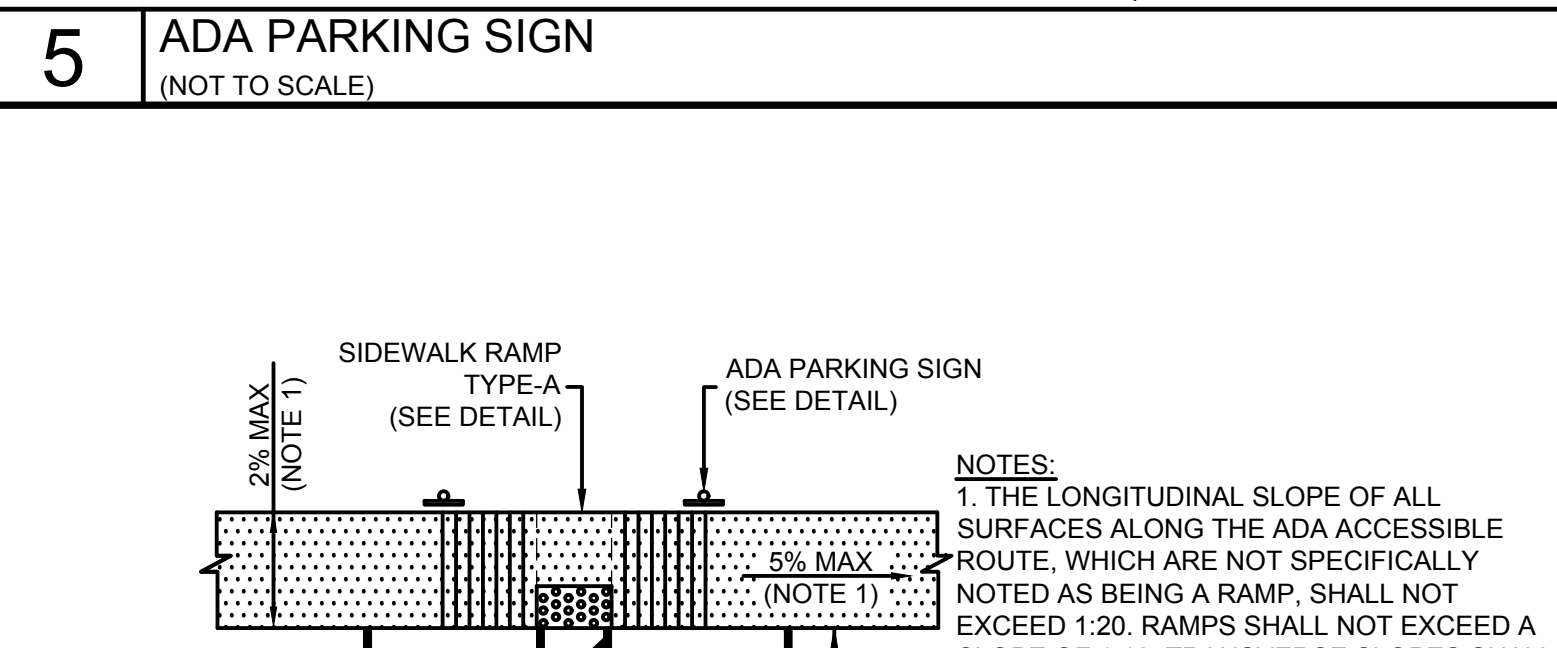
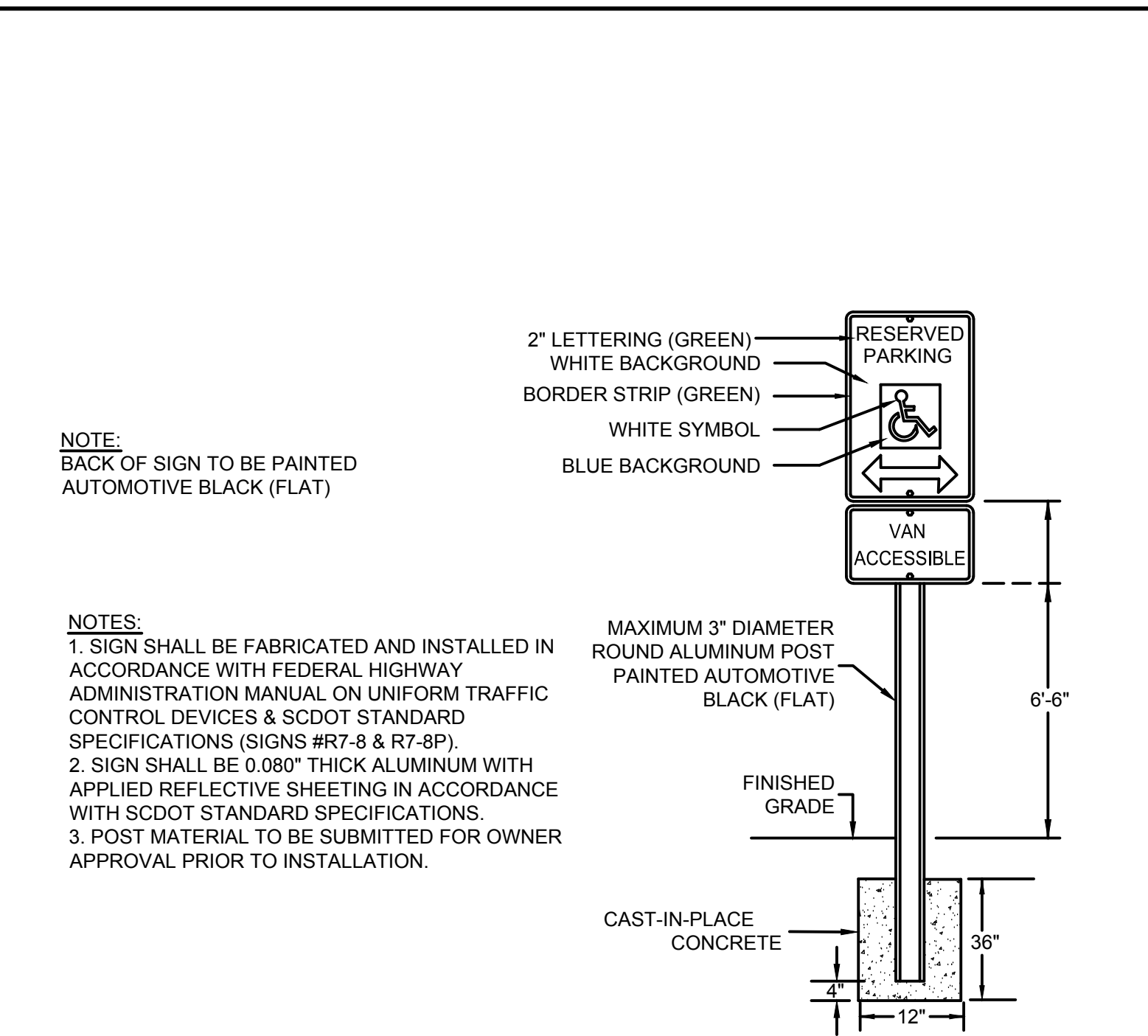
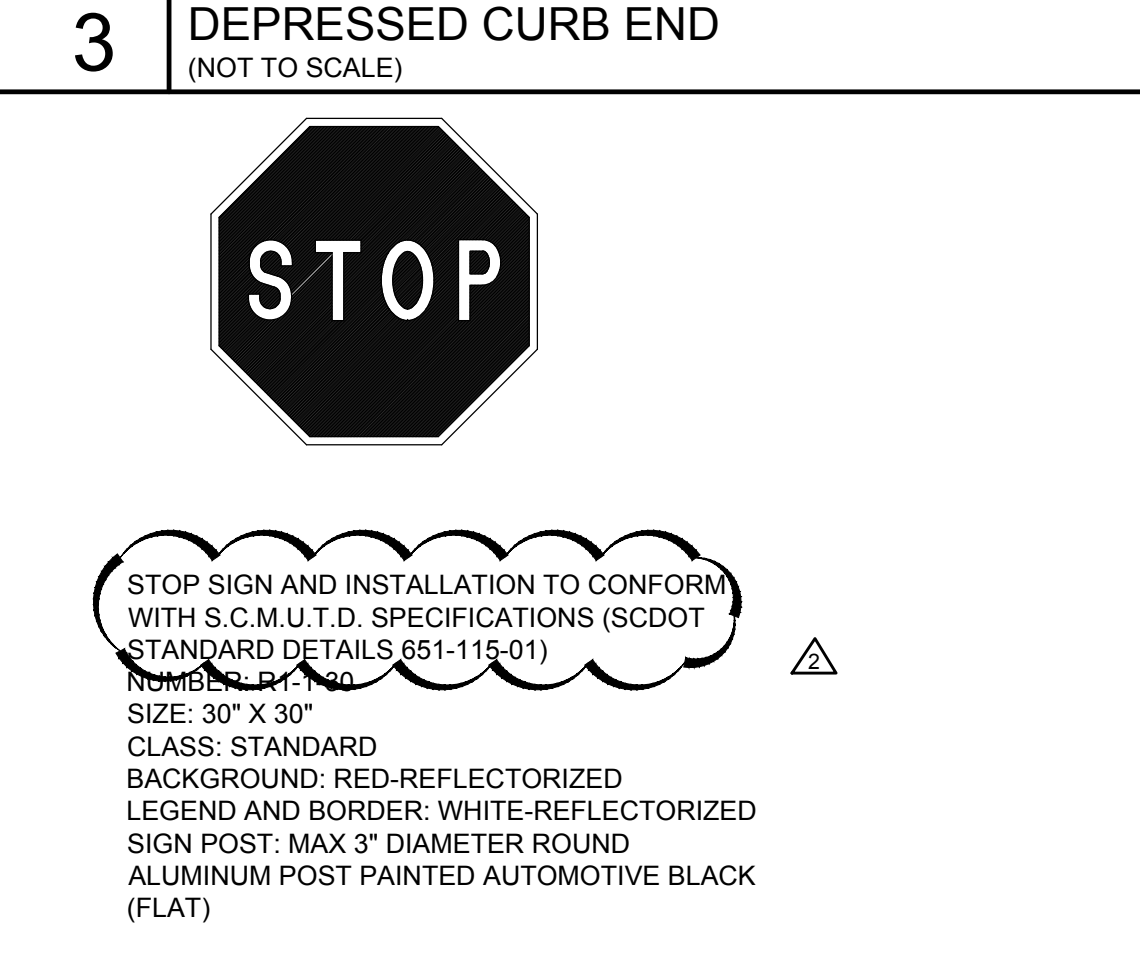
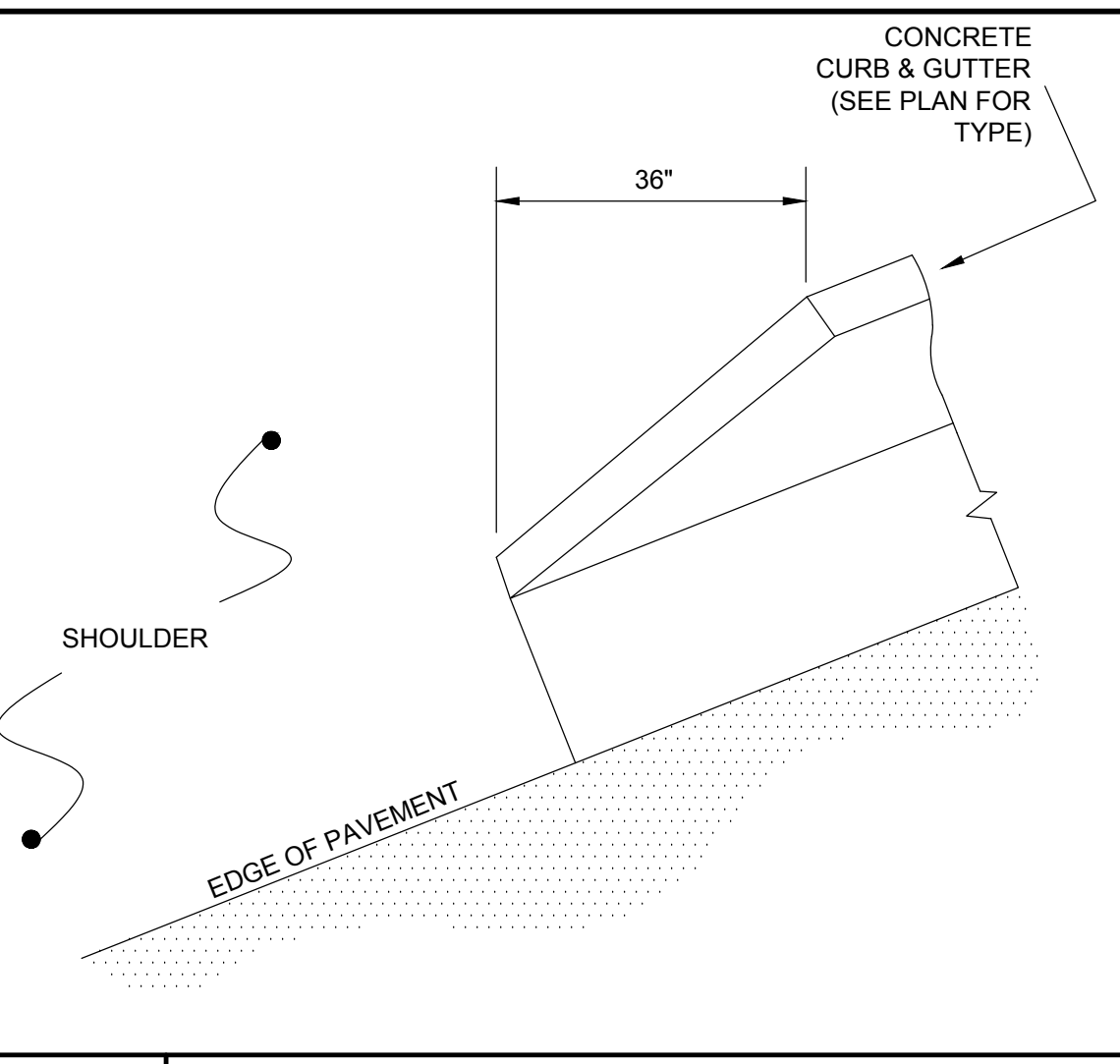
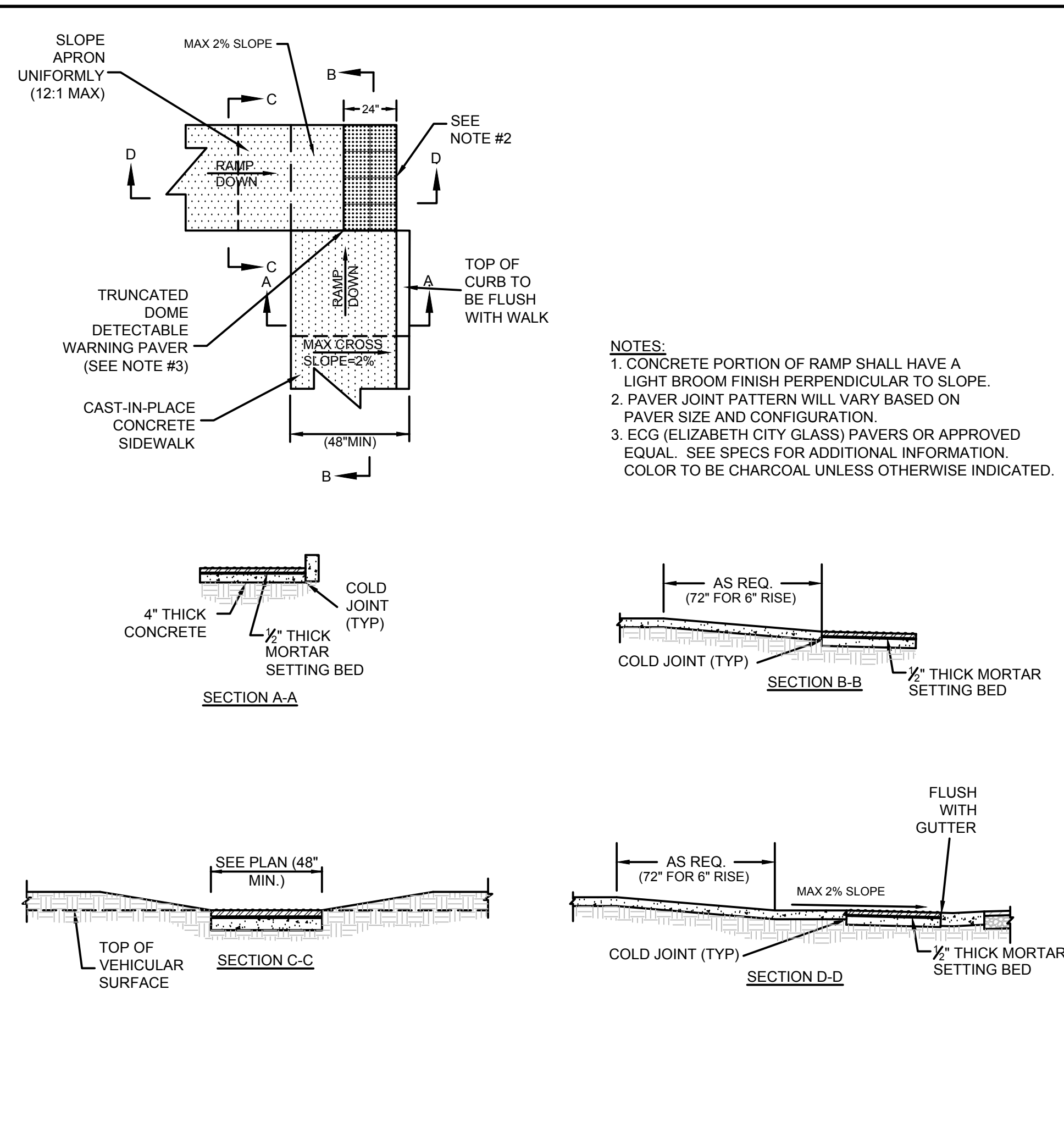
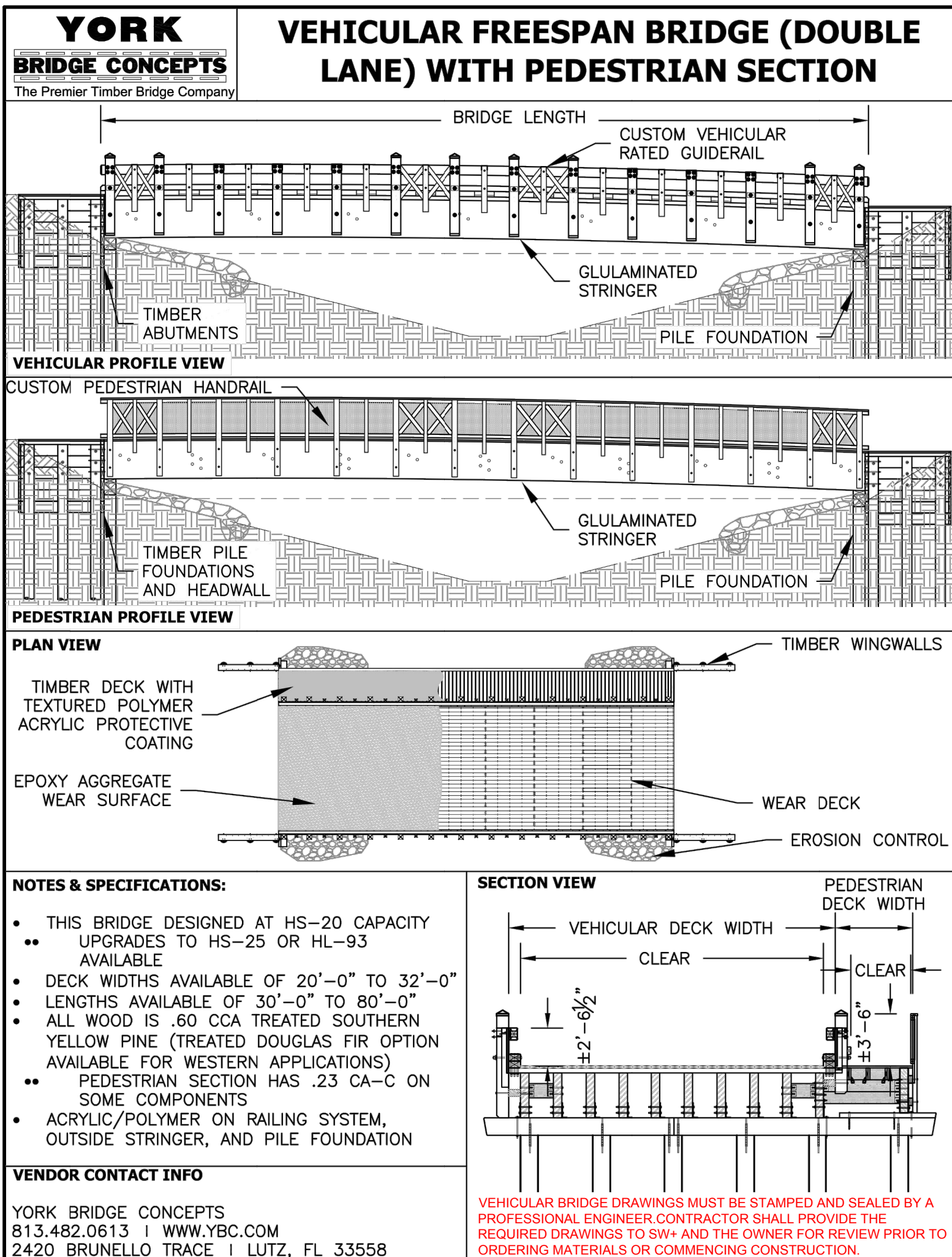
| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |

**SITE DETAILS**

**C5.0**



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SOUTH CAROLINA PROFESSIONAL ENGINEER  
 SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. C00472  
 LICENSED PROFESSIONAL ENGINEER  
 SOUTH CAROLINA PROFESSIONAL ENGINEER  
 SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. 20961  
 5/11/21  
 LICENSED PROFESSIONAL ENGINEER

HANAHAN RECREATION COMPLEX  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |
| E | 04/01/21 |

SITE DETAILS

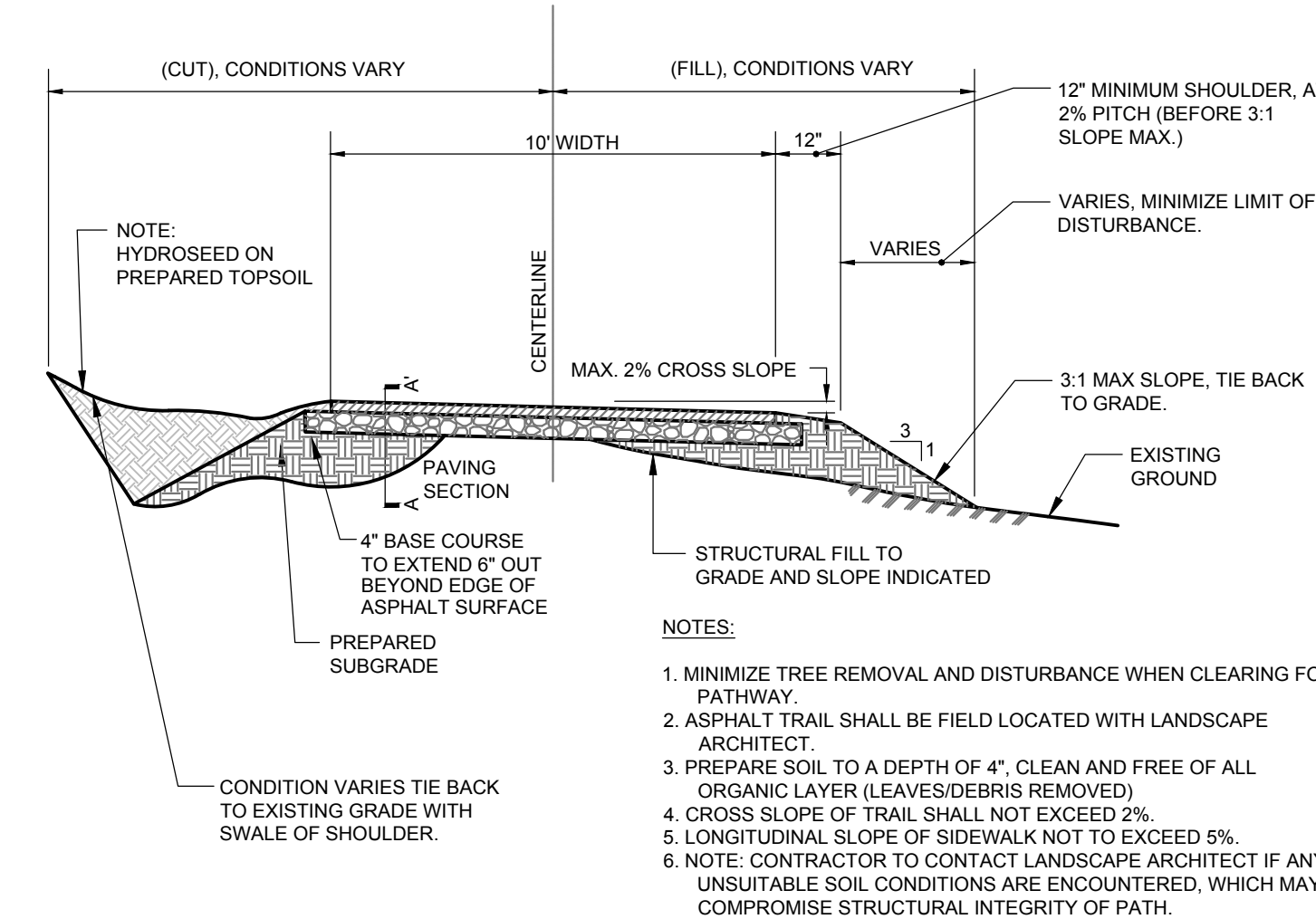
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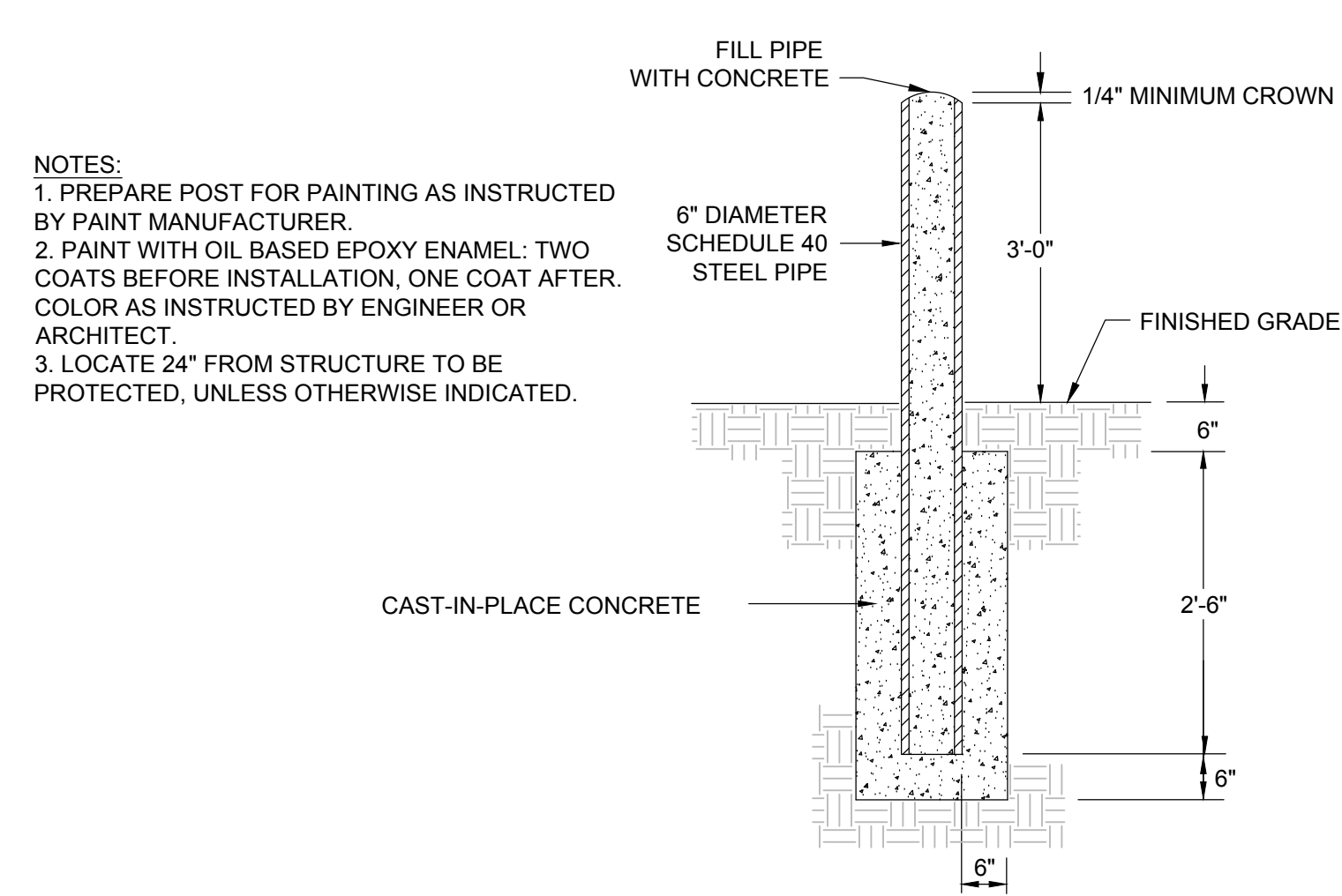
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| SUBGRADE       | PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL | EARTH MOVING                    |
| BASE COURSE    | GRADED AGGREGATE BASE COURSE                | EARTH MOVING                    |
| SURFACE COURSE | HOT MIX ASPHALT SURFACE COURSE (TYPE C)     | ASPHALT PAVING                  |



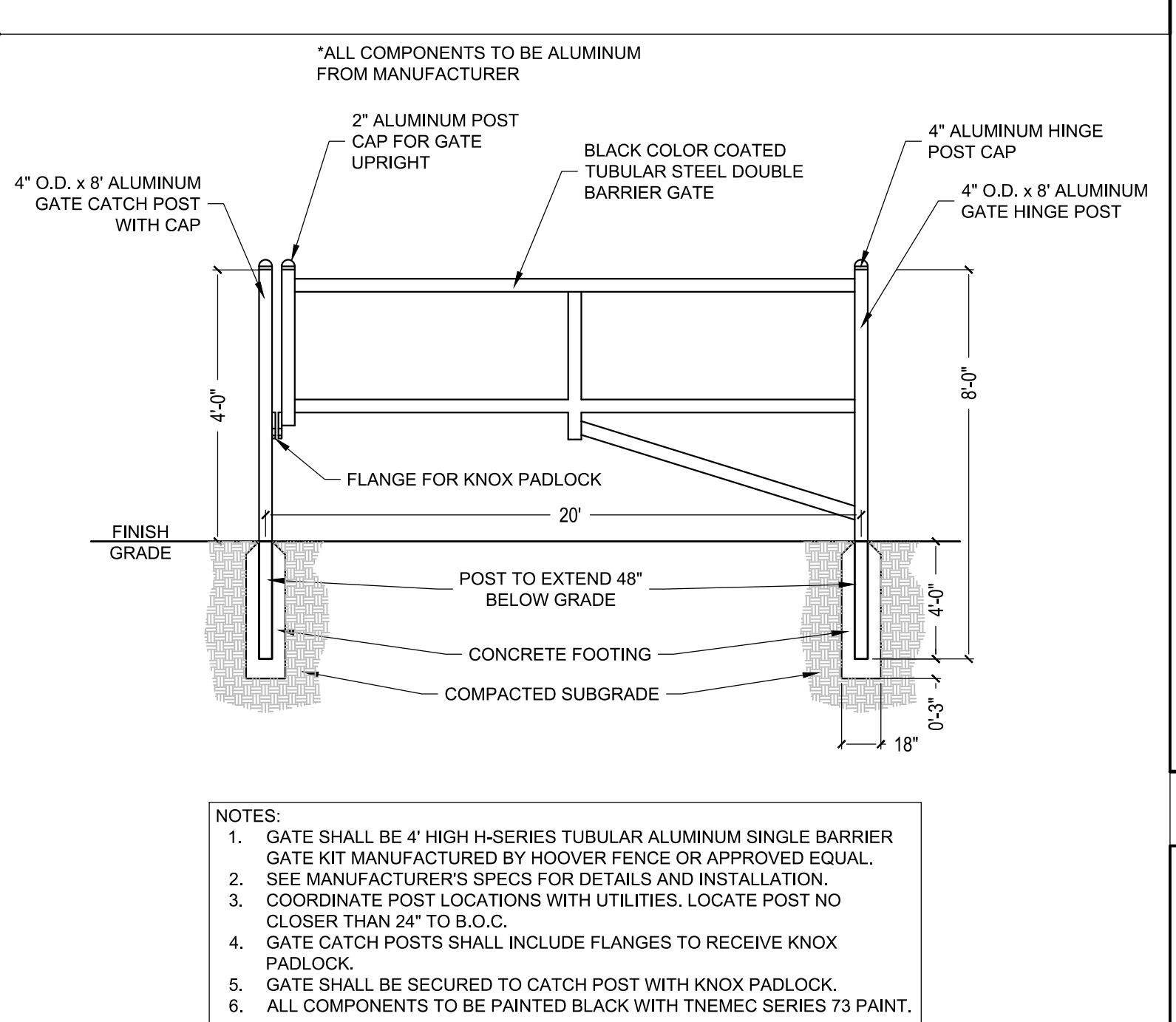
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 ONE-WAY SIGNS AND INSTALLATION TO CONFORM WITH M.U.T.C.D. SPECIFICATIONS.  
 SIZE: 36" X 12"  
 CLASS: STANDARD  
 BACKGROUND AND WORDS: BLACK  
 ARROW AND BORDER: WHITE-REFLECTORIZED  
 SIGN POST: GALVANIZED U-CHANNEL PER SCOTD SPECIFICATIONS

**1 ASPHALT TRAIL**  
(NOT TO SCALE)

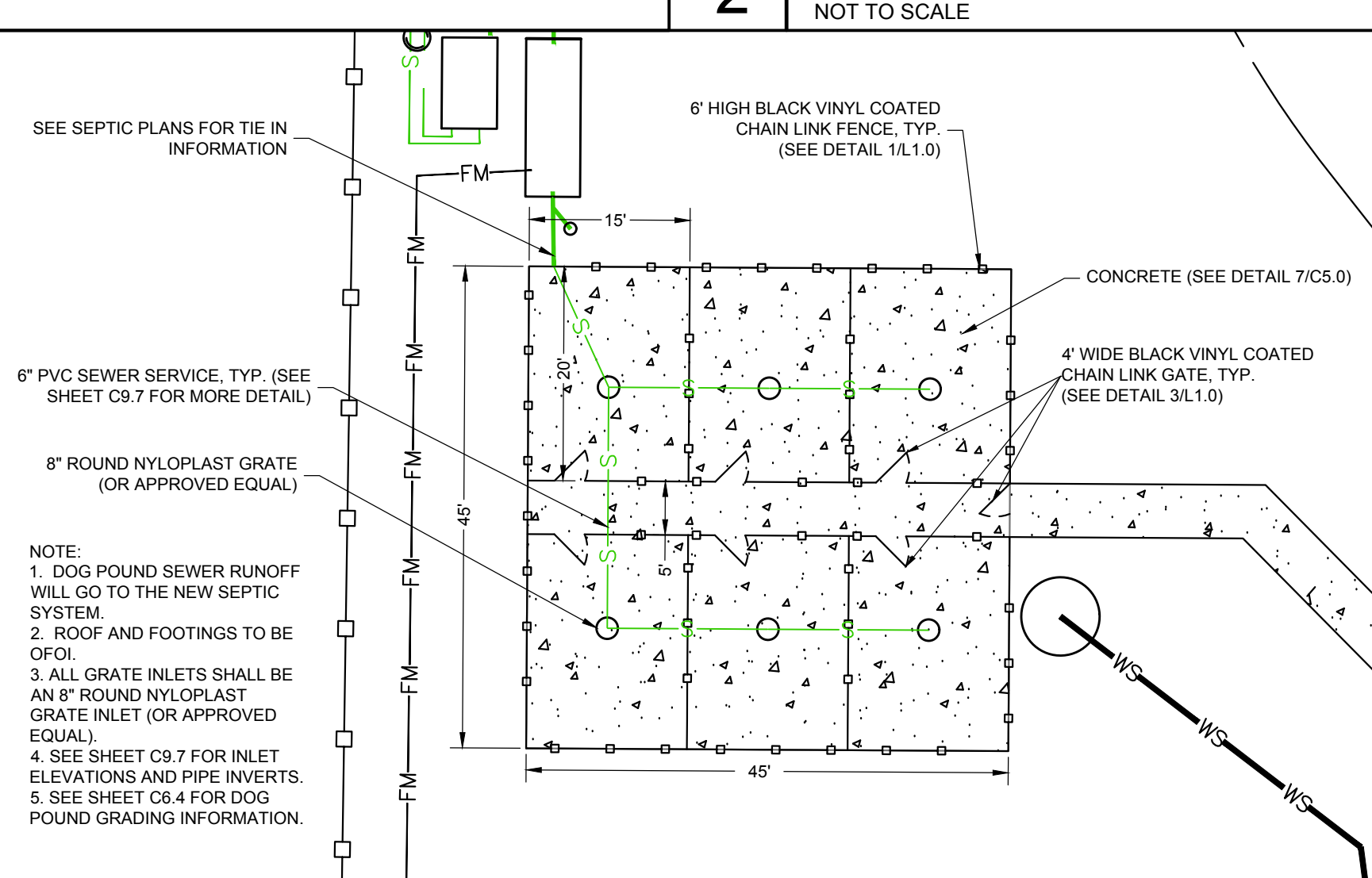
**2 SIGN - ONE - WAY**  
(NOT TO SCALE)



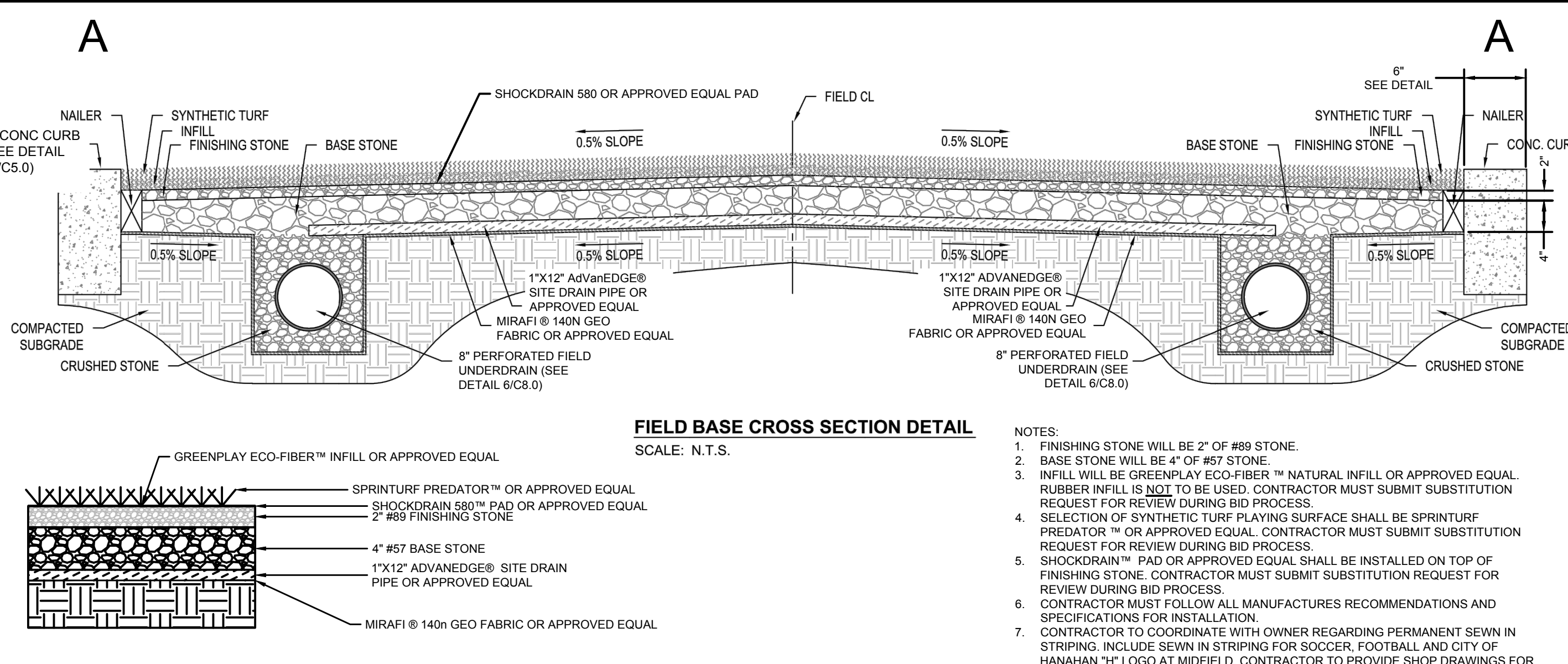
**3 GUARD BOLLARD**  
(NOT TO SCALE)



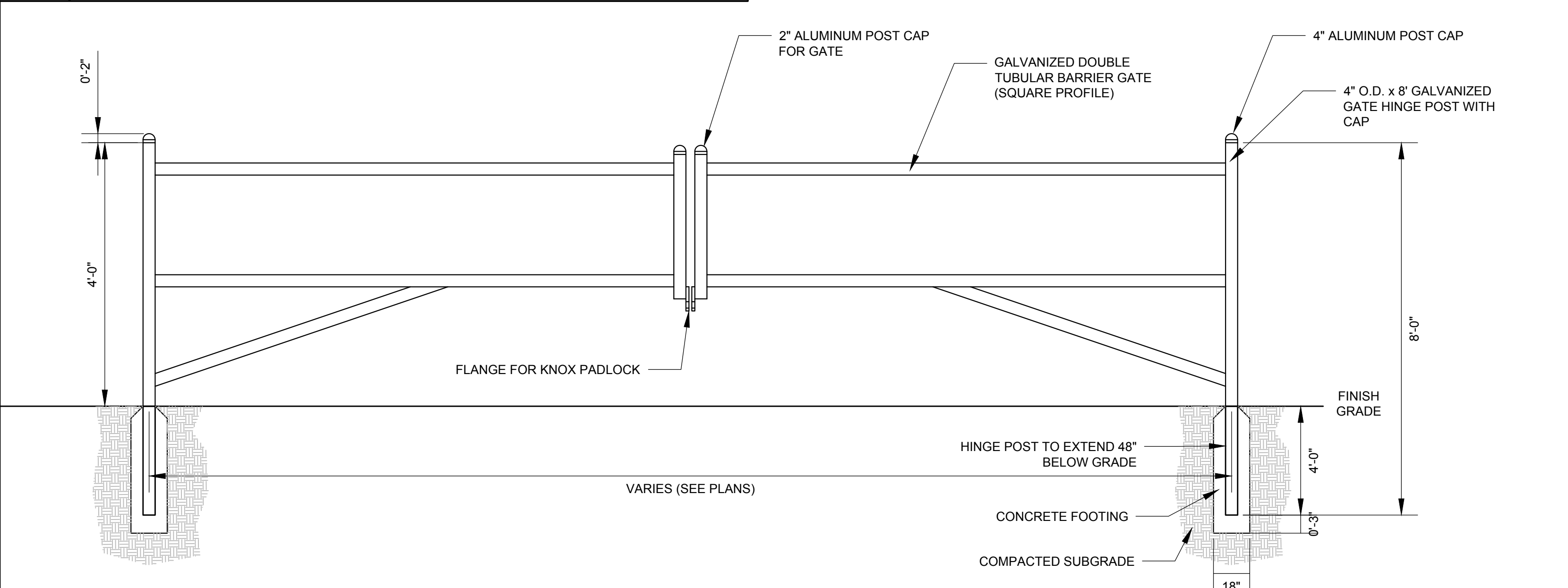
**4 SINGLE ARM BARRIER GATE**  
(NOT TO SCALE)



**5 DOG POUND**  
(NOT TO SCALE)



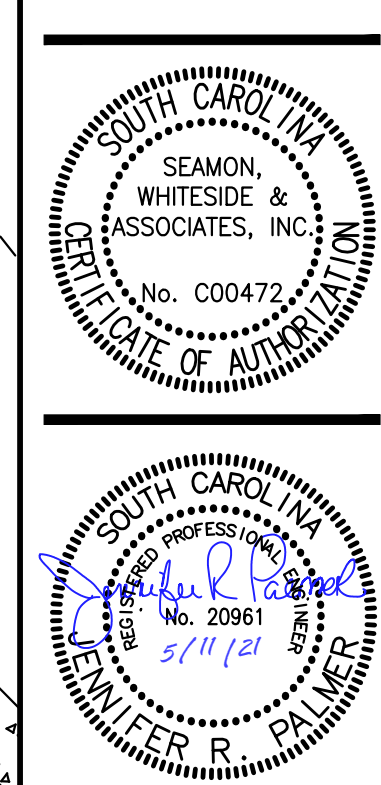
**6 SYNTHETIC TURF FIELD CROSS SECTION**  
(NOT TO SCALE)



**7 DOUBLE SWING ARM BARRIER GATE**  
(NOT TO SCALE)

**SW**  
SEAMON WHITESIDE

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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

| REVISION HISTORY |
|------------------|
| A 6/12/20        |
| B 10/29/20       |
| C 01/22/21       |
| D 03/11/21       |
| 2 04/01/21       |

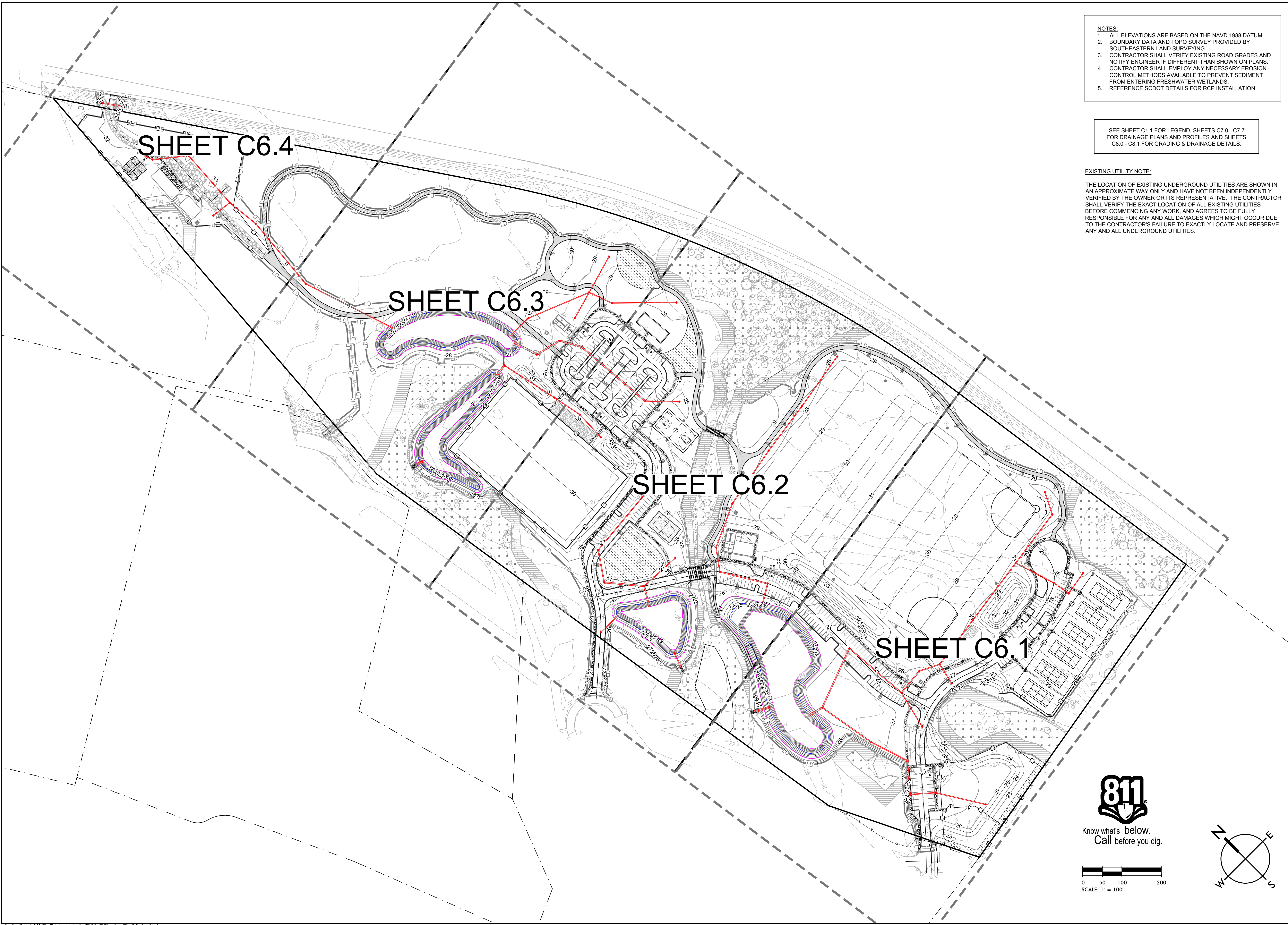
SITE DETAILS



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- NOTES:**
1. ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
  2. BOUNDARY DATA AND TOPO SURVEY PROVIDED BY SOUTHEASTERN LAND SURVEYING.
  3. CONTRACTOR SHALL VERIFY EXISTING ROAD GRADES AND NOTIFY ENGINEER IF DIFFERENT THAN SHOWN ON PLANS.
  4. CONTRACTOR SHALL EMPLOY ANY NECESSARY EROSION CONTROL METHODS AVAILABLE TO PREVENT SEDIMENT FROM ENTERING FRESHWATER WETLANDS.
  5. REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.

SEE SHEET C1.1 FOR LEGEND, SHEETS C7.0 - C7.7 FOR DRAINAGE PLANS AND PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

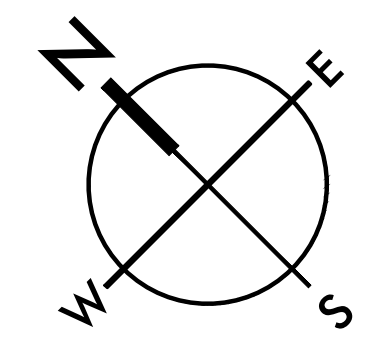
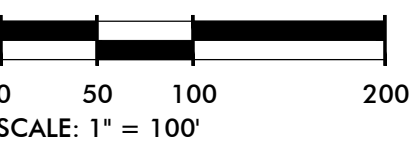
SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |

**OVERALL GRADING PLAN**

C6.0





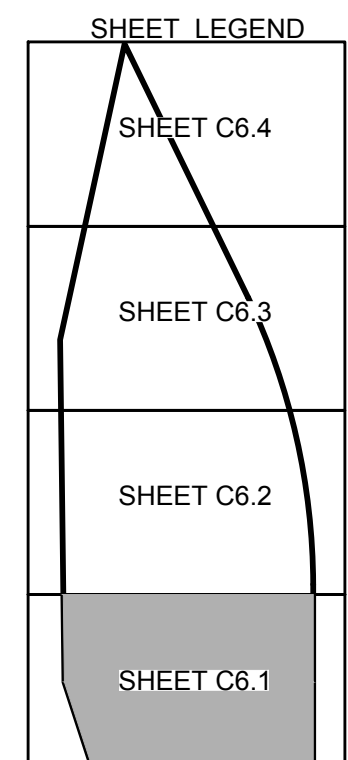
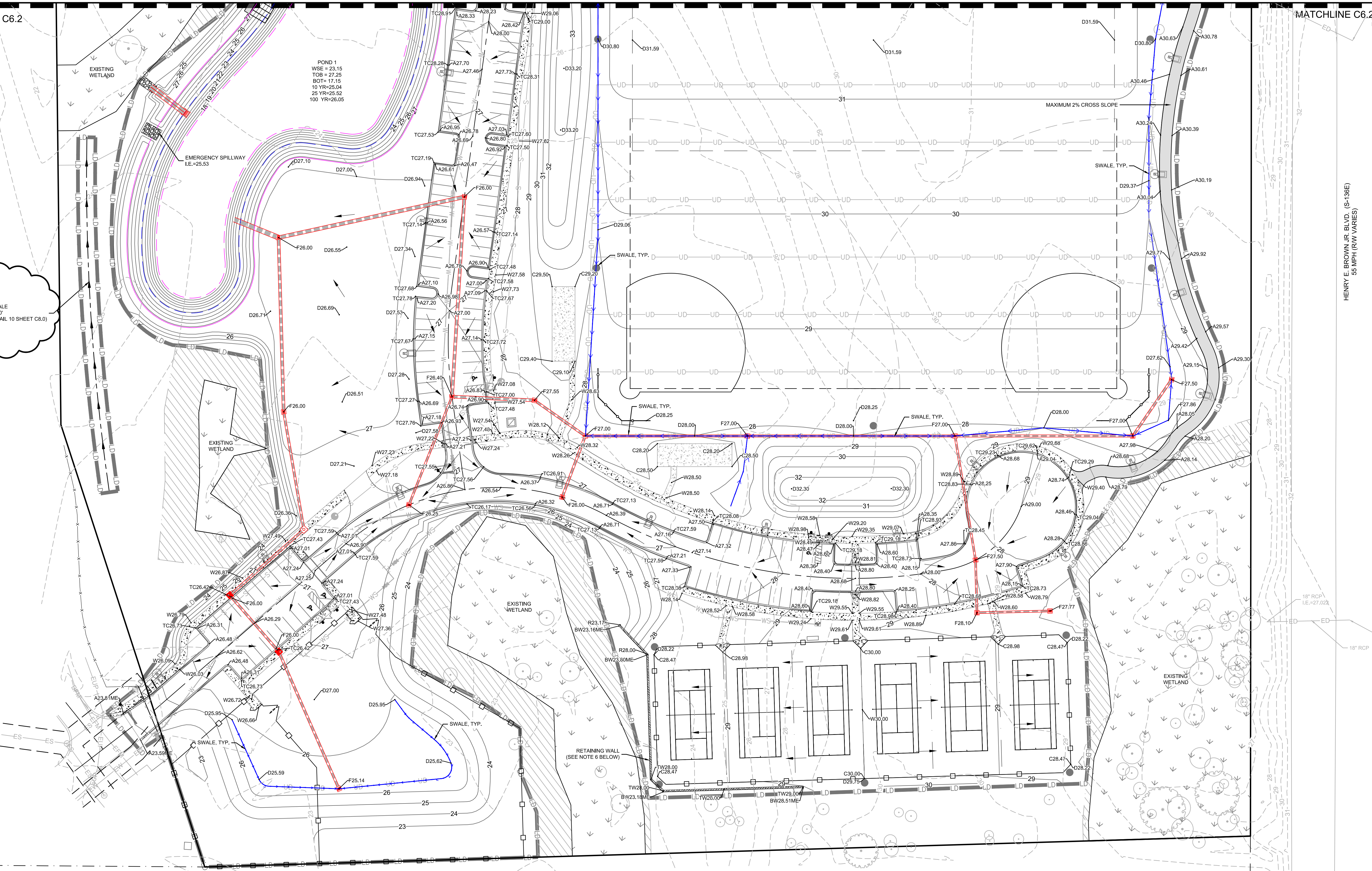
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MATCHLINE C6.2

MATCHLINE C6.2

FLAT SWALE  
ELEV: 23.0'  
(SEE DETAIL 10 SHEET C8.0)

BOWENS CORNER ELEMENTARY  
 TMS# 259-00-104  
 BERKELEY COUNTY SCHOOL DISTRICT



**NOTES:**

- ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
- BOUNDARY DATA AND TOPO SURVEY PROVIDED BY SOUTHEASTERN LAND SURVEYING.
- CONTRACTOR SHALL VERIFY EXISTING ROAD GRADES AND NOTIFY ENGINEER IF DIFFERENT THAN SHOWN ON PLANS.
- CONTRACTOR SHALL EMPLOY ANY NECESSARY EROSION CONTROL METHODS AVAILABLE TO PREVENT SEDIMENT FROM ENTERING FRESHWATER WETLANDS.
- REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.
- RETAINING WALL(S) SHOWN IS FOR GENERAL INFORMATION ONLY AND IS NOT TO BE INTERPRETED AS A FINAL DESIGN TO BE USED FOR CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE COMPLETE DESIGN DRAWINGS (INCLUDING GEOTECHNICAL INVESTIGATIONS AS REQUIRED) PREPARED AND STAMPED BY A SC REGISTERED STRUCTURAL ENGINEER. THE WALL(S) IS TO BE DESIGNED WITH CONSIDERATION OF ALL APPURTENANT AND ADJOINING IMPROVEMENTS SHOWN AND UTILIZING MATERIALS INDICATED IN THESE CONSTRUCTION DOCUMENTS (IF SPECIFIC MATERIALS ARE NOT INDICATED, CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER FOR MATERIAL SELECTION). CONTRACTOR SHALL PROVIDE THE REQUIRED DRAWINGS TO SW+ AND THE OWNER FOR REVIEW PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION.

**SPOT ELEV KEY (FINISHED GRADING)**

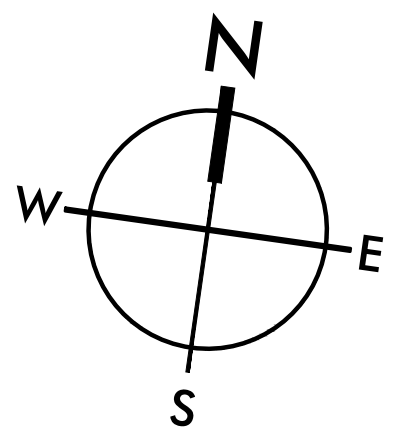
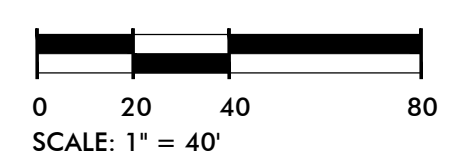
|   |
|---|
| A-(ASPHALT) SURFACE OF FINISHED ASPHALT ROADWAY OR WALKING PATH                           |
| C-(CONCRETE) CONCRETE PAVING  |
| D-(DIRT) FINISHED GROUND ELEVATION  |
| F-(FLOW) ELEVATION AT WHICH SURFACE WATER FLOWS INTO DRAINAGE STRUCTURE                   |
| -SURFACE OF ASPHALT ADJACENT TO THROAT OR GRATE AT CURB INLET                             |
| -SURFACE OF ACCESS COVER FOR JUNCTION OR ISOLATION BOX                                    |
| -SURFACE OF GRATE AT OUTSIDE EDGE FOR CATCH BASIN, GUTTER INLET, OR GRATED POND STRUCTURE |
| FFE - FINISHED FLOOR ELEVATION  |
| G-(GUTTER) SURFACE OF FINISHED GUTTER AT LOWEST POINT (ALONG WATER FLOW PATH)             |
| W-(WALK) SURFACE OF FINISHED CONCRETE OR INTERLOCKING PAVEMENT, PATIO, PLAZA, OR SLAB     |
| TC - TOP OF CURB ELEVATION  |
| BC - BOTTOM OF CURB ELEVATION   |
| TS - TOP OF STAIRS ELEVATION  |
| BS - BOTTOM OF STAIRS ELEVATION   |
| TW - FINISHED GRADE ELEVATION AT TOP OF WALL  |
| BW - FINISHED GRADE ELEVATION AT BOTTOM OF WALL   |
| ME-(MATCH EXISTING) FOLLOWING ELEVATION NUMBER -  |
| INDICATES TO MATCH ELEVATION OF EXISTING SURFACE AT POINT OF CONNECTION                   |

EXAMPLE: A12.56ME MEANS THAT THE SURFACE OF NEW ASPHALT IS TO BE AT ELEVATION 12.56 WHICH SHOULD MATCH THE ELEVATION OF THE EXISTING ASPHALT SURFACE AT THE JOINT

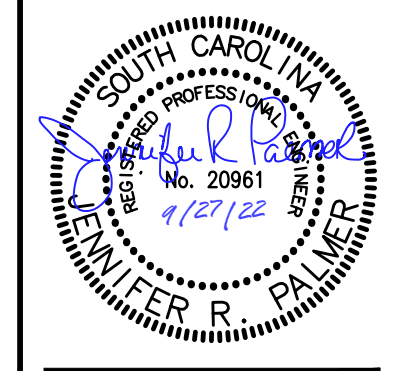
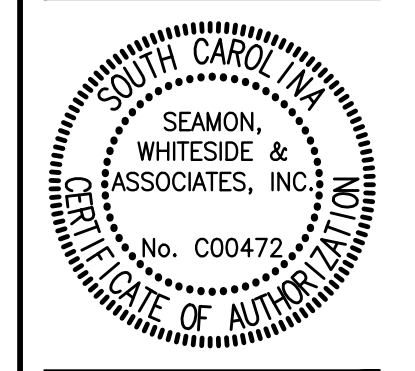
SEE SHEET C1.1 FOR LEGEND, SHEETS C7.0 - C7.7 FOR DRAINAGE PLANS AND PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
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SW+ PROJECT: 7867  
 DATE: 06/12/20  
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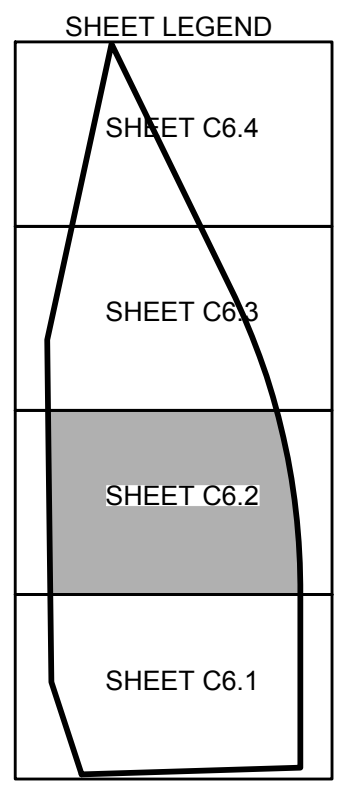
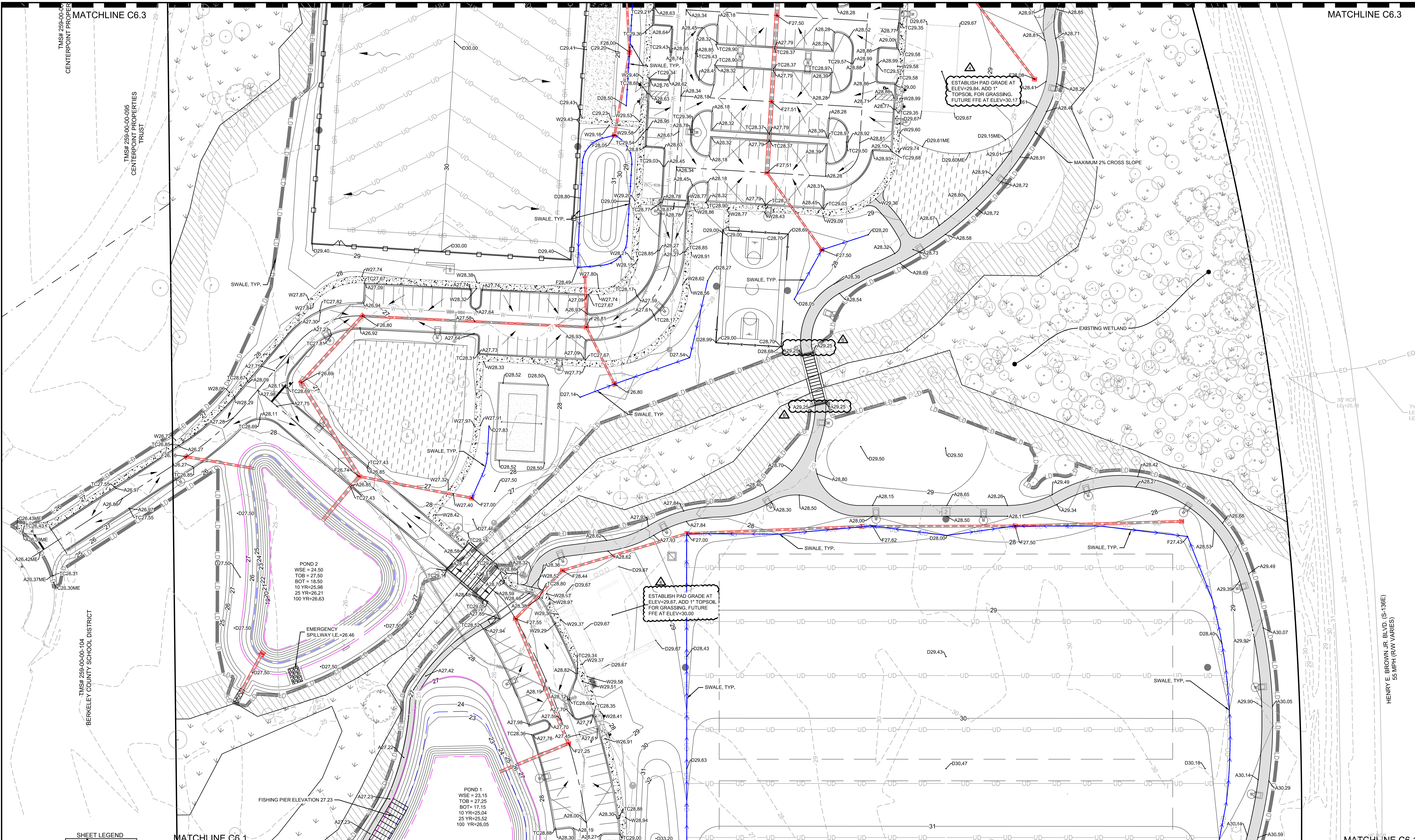
**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |
| E | 08/22/22 |

GRADING PLAN



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MATCHLINE C6.1

MATCHLINE C6.1

- NOTES:**
1. ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
  2. BOUNDARY DATA AND TOPO SURVEY PROVIDED BY SOUTHEASTERN LAND SURVEYING.
  3. CONTRACTOR SHALL VERIFY EXISTING ROAD GRADES AND NOTIFY ENGINEER IF DIFFERENT THAN SHOWN ON PLANS. CONTRACTOR SHALL EMPLOY ANY NECESSARY EROSION CONTROL METHODS AVAILABLE TO PREVENT SEDIMENT FROM ENTERING FRESHWATER WETLANDS.
  4. REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.

**SPOT ELEV KEY (FINISHED GRADING)**

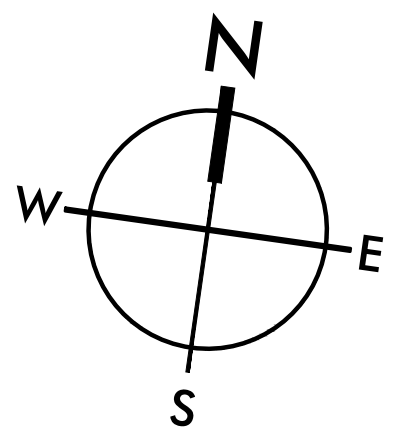
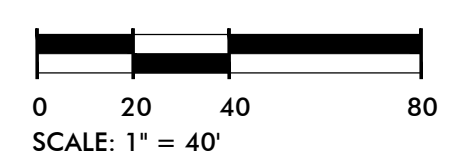
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  - C- (CONCRETE) CONCRETE PAVING
  - D- (DIRT) FINISHED GROUND ELEVATION
  - F- (FLOW) ELEVATION AT WHICH SURFACE WATER FLOWS INTO DRAINAGE STRUCTURE
  - G- (GUTTER) SURFACE OF FINISHED GUTTER AT LOWEST POINT (ALONG WATER FLOW PATH)
  - W- (WALK) SURFACE OF FINISHED CONCRETE OR INTERLOCKING PAVER SIDEWALK, PATIO, PLAZA, OR SLAB
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SEE SHEET C1.1 FOR LEGEND, SHEETS C7.0 - C7.7 FOR DRAINAGE PLANS AND PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

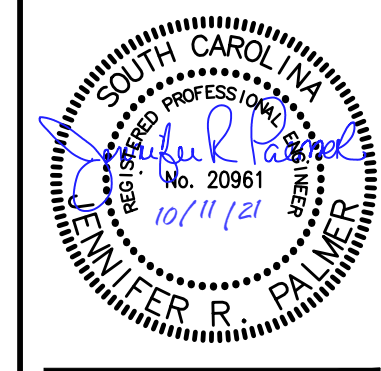
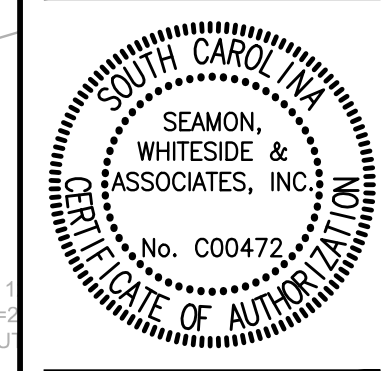
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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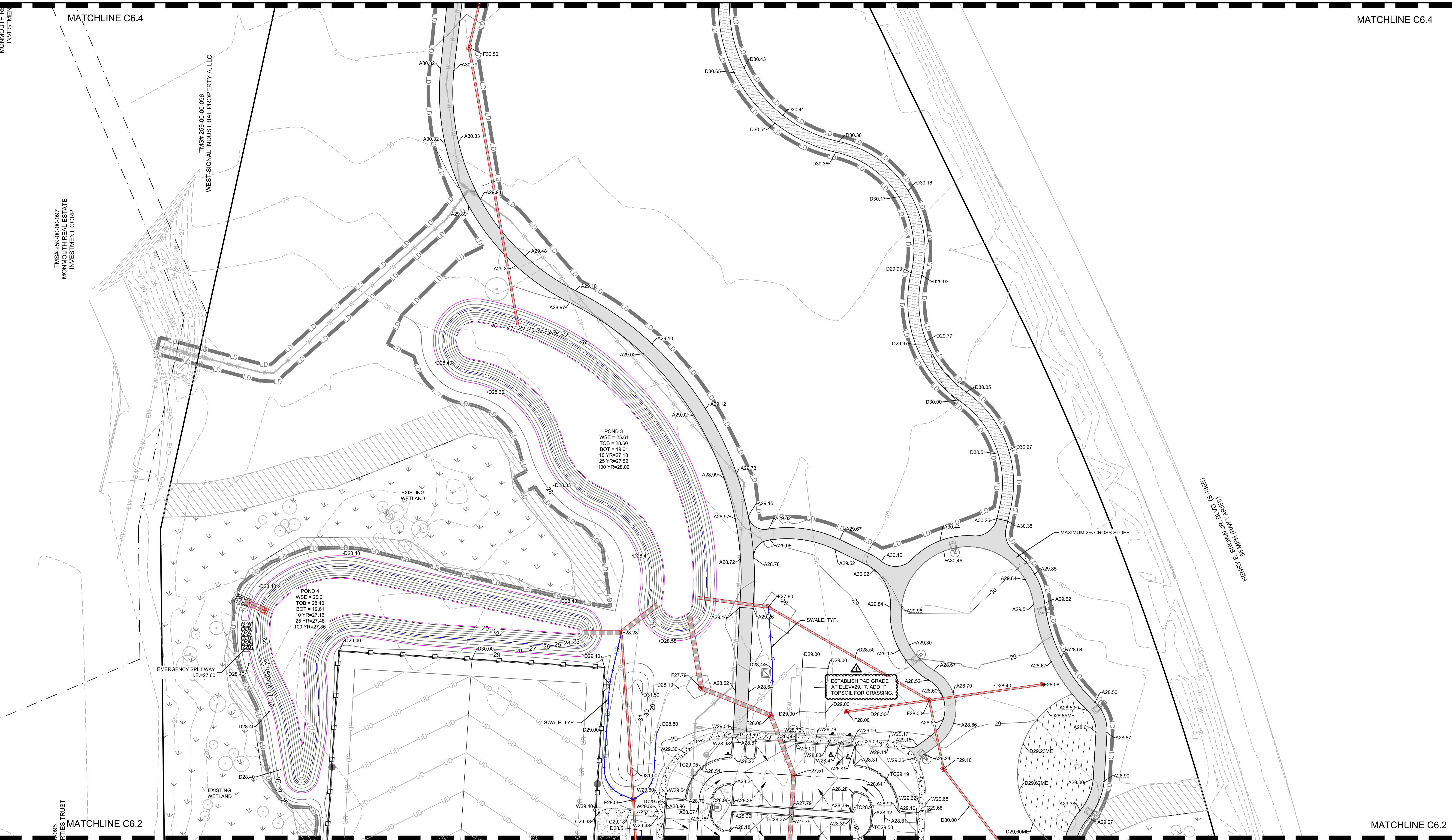
**REVISION HISTORY**

|   |          |   |          |
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| A | 6/12/20  | 4 | 06/18/21 |
| B | 10/29/20 |   |          |
| C | 01/22/21 | 6 | 10/11/21 |
| D | 03/11/21 |   |          |
| 1 | 03/26/21 |   |          |

**GRADING PLAN**



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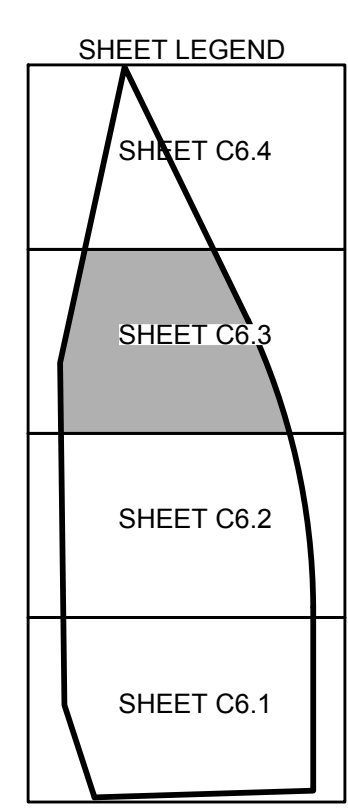


MATCHLINE C6.4

MATCHLINE C6.4

MATCHLINE C6.2

MATCHLINE C6.2



- NOTES:**
1. ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
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**SPOT ELEV KEY (FINISHED GRADING)**

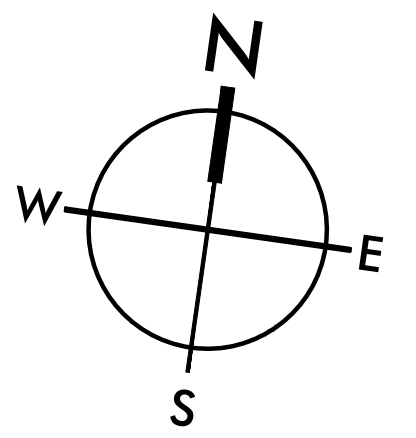
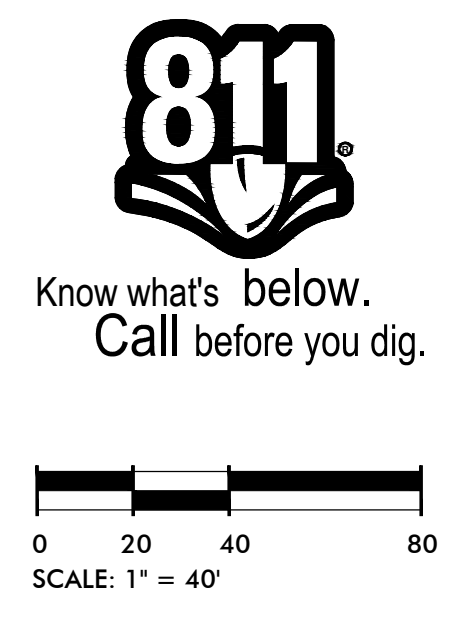
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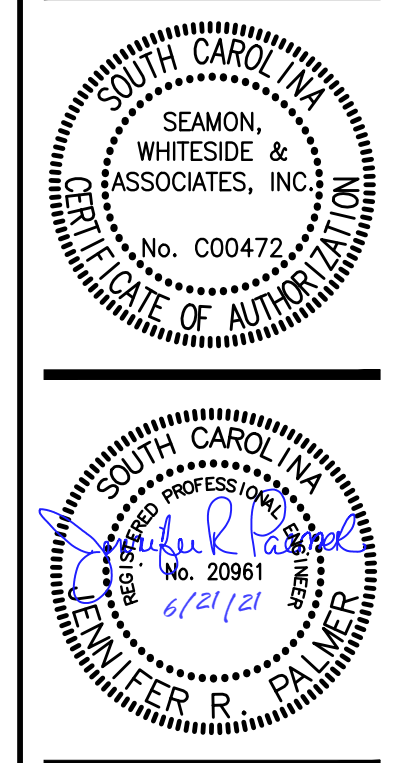
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
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 CHECKED BY: JRP

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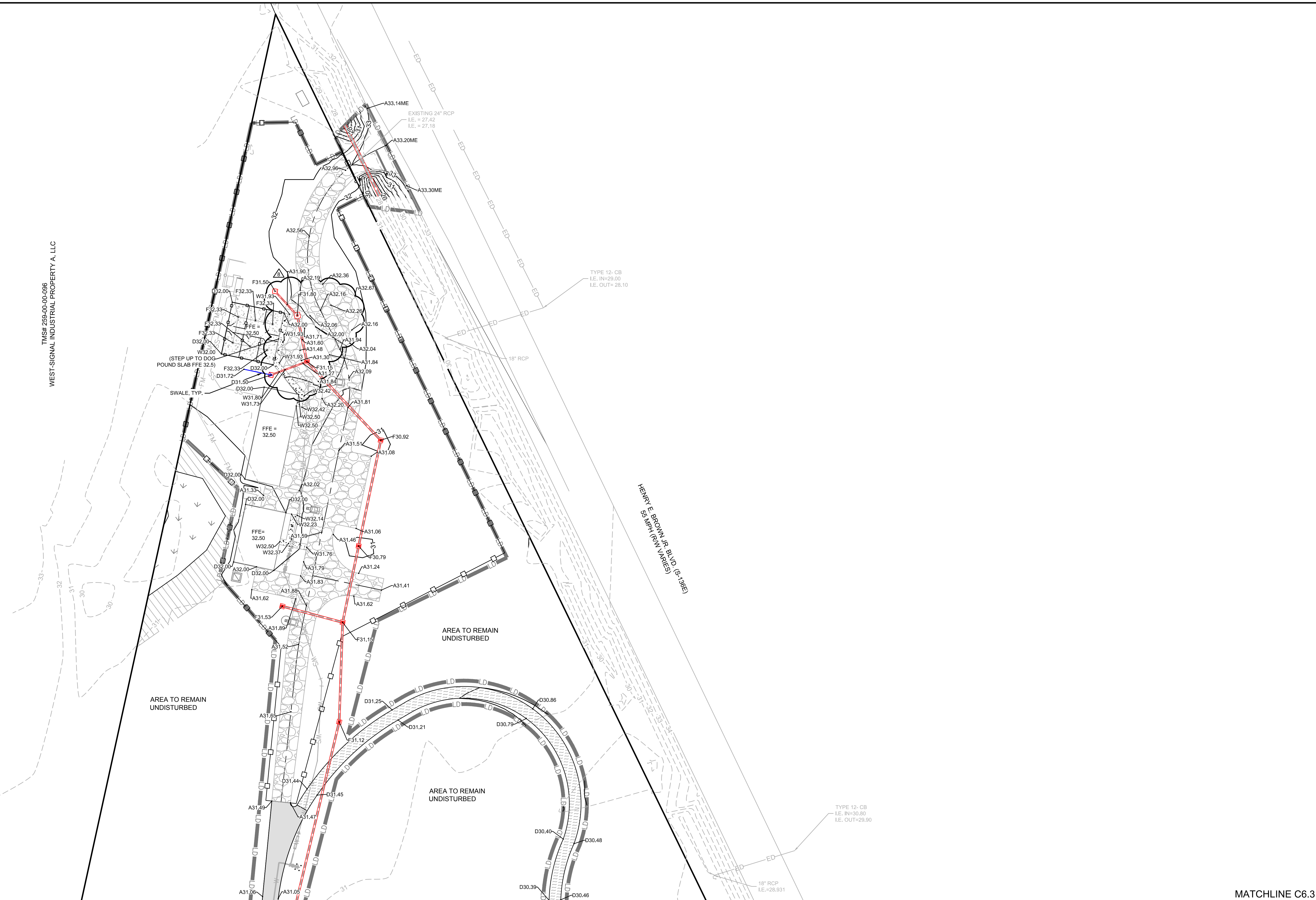
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| B | 10/29/20 |   |          |
| C | 01/22/21 |   |          |
| D | 03/11/21 |   |          |

GRADING PLAN



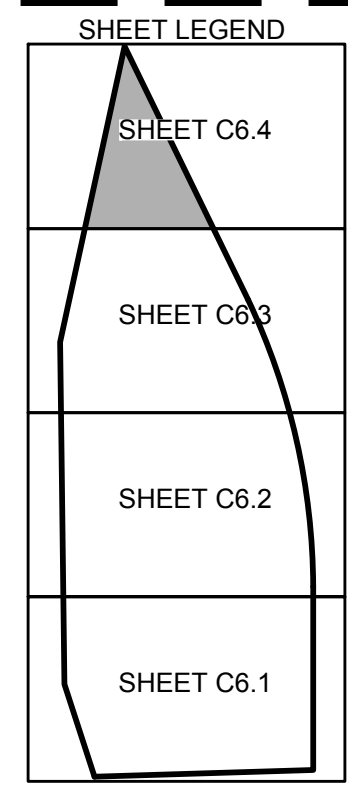
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MATCHLINE C6.3

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- NOTES:**
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**SPOT ELEV KEY (FINISHED GRADING)**

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- C-(CONCRETE) CONCRETE PAVING
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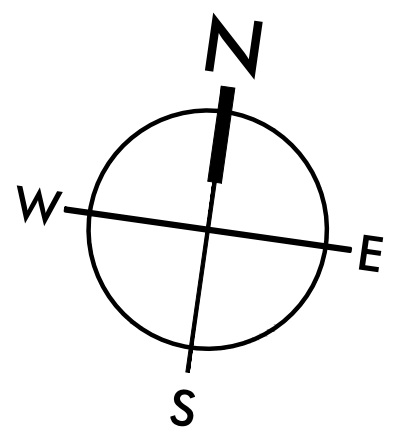
SEE SHEET C1.1 FOR LEGEND, SHEETS C7.0 - C7.7 FOR DRAINAGE PLANS AND PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

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SCALE: 1" = 40'



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 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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**REVISION HISTORY**

| REV | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  |             |
| B   | 10/29/20 |             |
| C   | 01/22/21 | 6 10/11/21  |
| D   | 03/11/21 | 8 12/22/22  |

**GRADING PLAN**  
 C6.4



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SHEET C7.4

SHEET C7.3

SHEET C7.2

SHEET C7.1

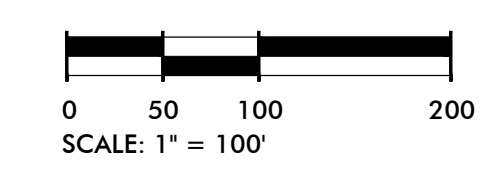
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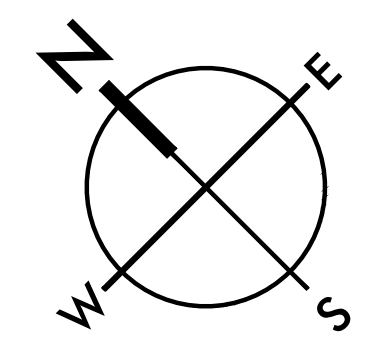
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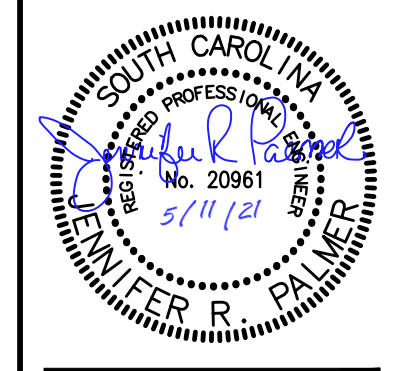
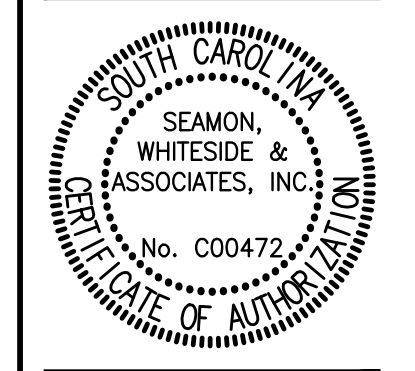
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REVISION 3 NOTE:  
STORM PIPE INVERT ELEVATIONS UPDATED.



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| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |
| 3                | 05/11/21 |

OVERALL DRAINAGE PLAN



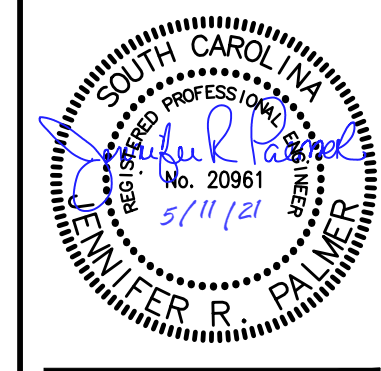
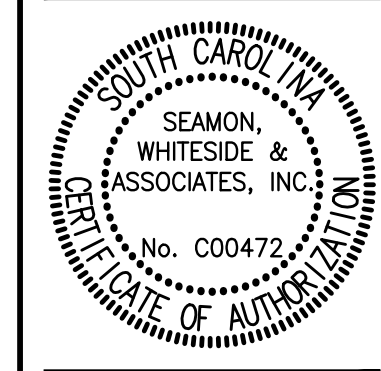
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MATCHLINE C7.1

MATCHLINE C7.1



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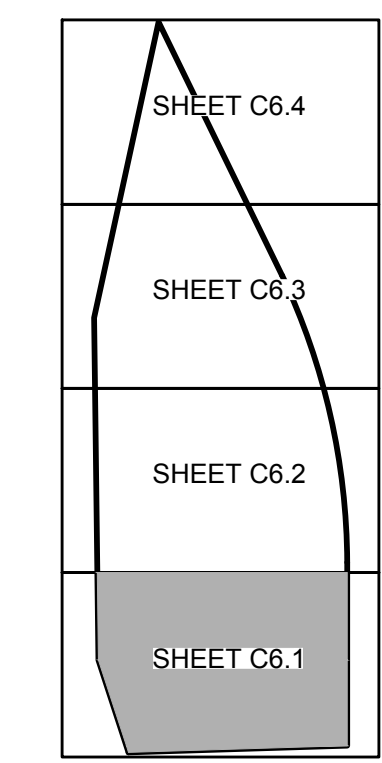
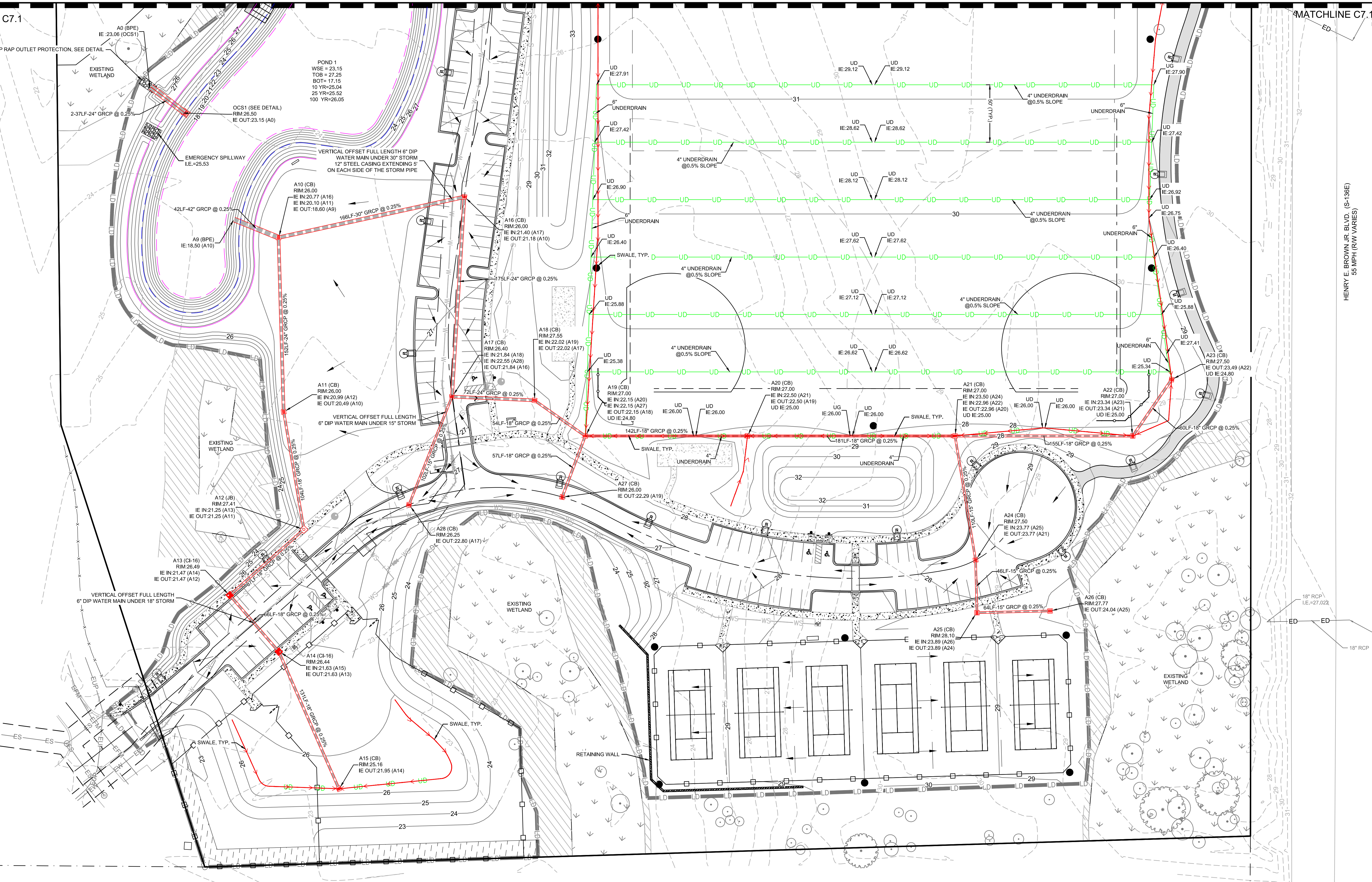
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SW+ PROJECT: 7867  
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| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |
| 3                | 05/11/21 |

**DRAINAGE PLAN**

C7.1



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  - REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.

- LEGEND**
- DRAINAGE PIPE ABBREVIATIONS (SEE SPECS FOR ADDITIONAL INFORMATION)**
- GRCP - REINFORCED CONCRETE PIPE: ASTM C 76, CLASS III, WALL B WITH GASKETED JOINTS (ASTM C 443).
  - SRCP - REINFORCED CONCRETE PIPE: ASTM C 76, CLASS III, WALL B WITH SEALANT JOINTS (ASTM C 900)
  - PVC - POLYVINYL CHLORIDE PLASTIC PIPE: ASTM D 3034, SDR 26 WITH WATER-TIGHT, GASKETED JOINTS (ASTM D 3212).
- DRAINAGE STRUCTURE ABBREVIATIONS (SEE SPECS AND DETAILS FOR ADDITIONAL INFORMATION)**
- CB - CATCH BASIN
  - CI-16 - CURB INLET SCDOT TYPE 16
  - JB - JUNCTION BOX
  - PE - PIPE END
  - BPE - BEVELED PIPE END
  - UNDERDRAIN
  - SWALE

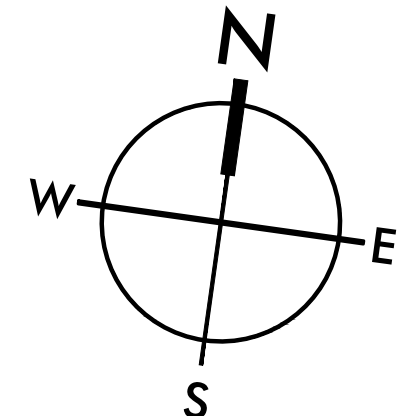
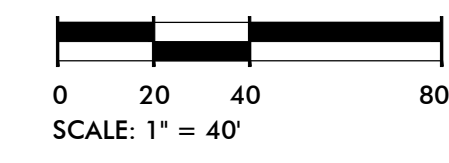
SEE SHEET C1.1 FOR LEGEND, SHEETS C7.5 - C7.7 FOR DRAINAGE PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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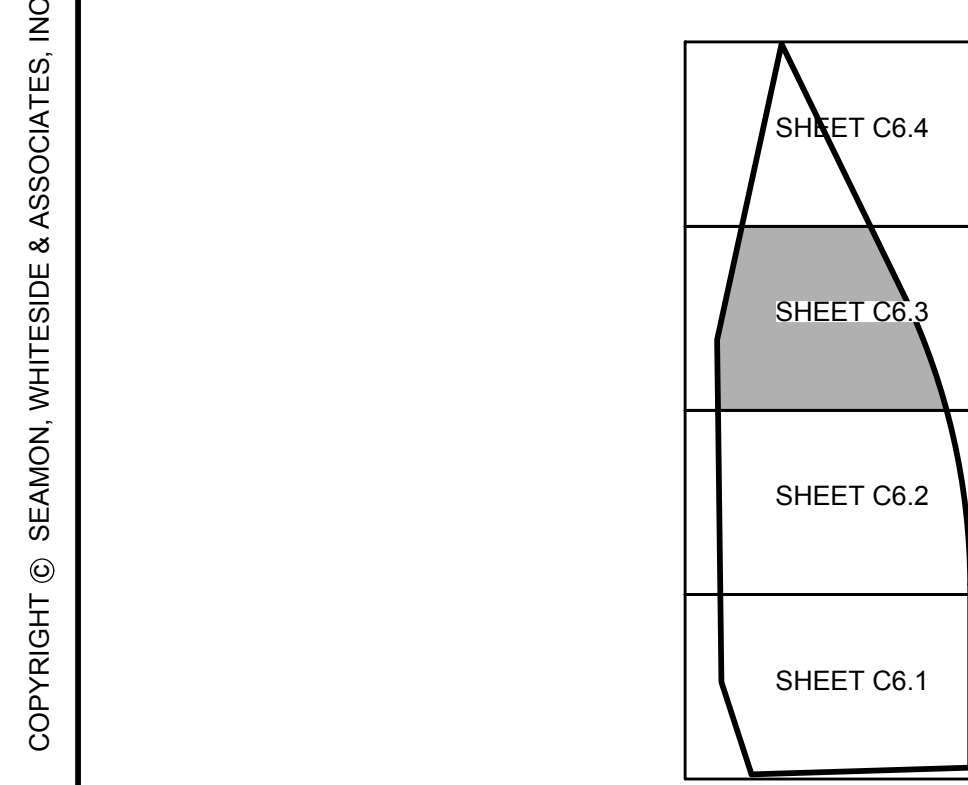
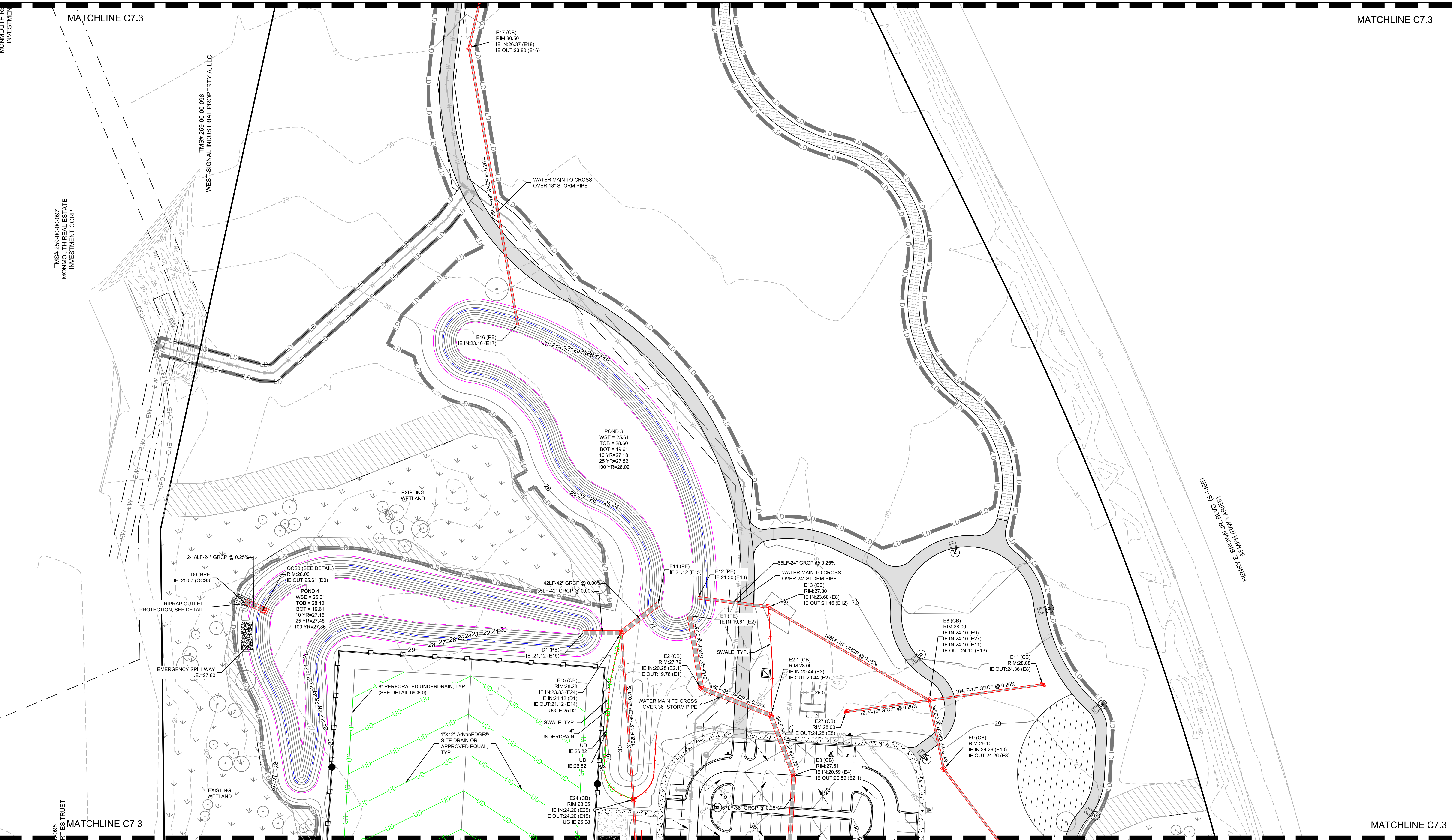
REVISION 3 NOTE:  
STORM PIPE INVERT ELEVATIONS UPDATED.







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- NOTES:**
- ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
  - BOUNDARY DATA AND TOPO SURVEY PROVIDED BY SOUTHEASTERN LAND SURVEYING.
  - CONTRACTOR SHALL EMPLOY ANY NECESSARY EROSION CONTROL METHODS AVAILABLE TO PREVENT SEDIMENT FROM ENTERING FRESHWATER WETLANDS.
  - REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.

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  - SWALE

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REVISION 3 NOTE:  
STORM PIPE INVERT ELEVATIONS UPDATED.

REVISION HISTORY

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |
| 3 | 05/11/21 |

**DRAINAGE PLAN**

SCALE: 1" = 40'

MATCHLINE C7.3

**SEAMON WHITESIDE & ASSOCIATES, INC.**  
No. C0047

**SEAMON WHITESIDE & ASSOCIATES, INC.**  
No. 20961  
5/11/21

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

MATCHLINE C7.3

C7.3

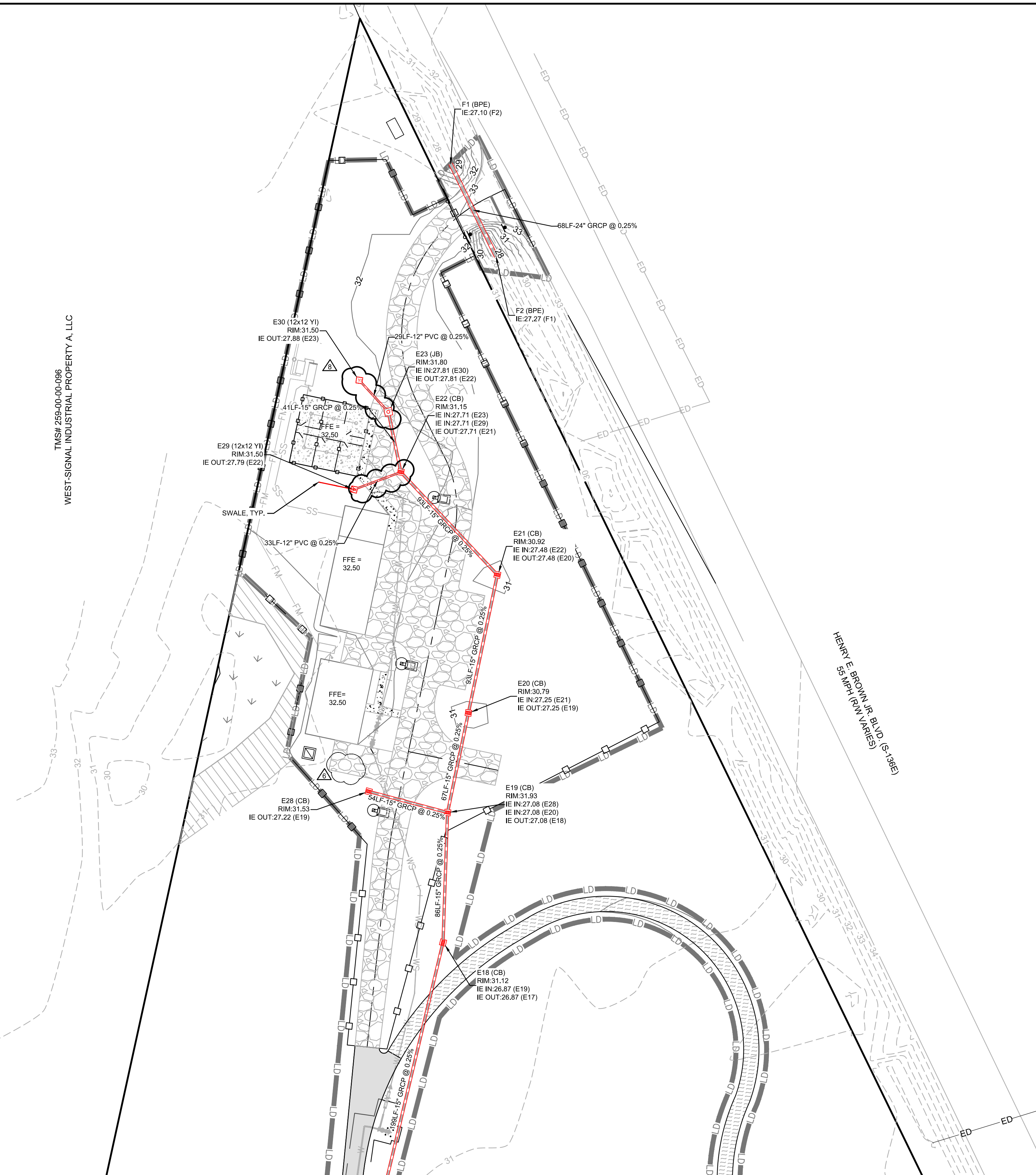


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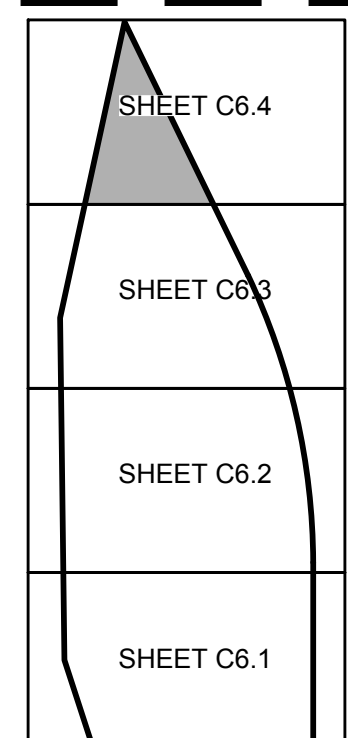
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WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC



MATCHLINE C6.4

MATCHLINE C7.4



- NOTES:**
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**EXISTING UTILITY NOTE:**

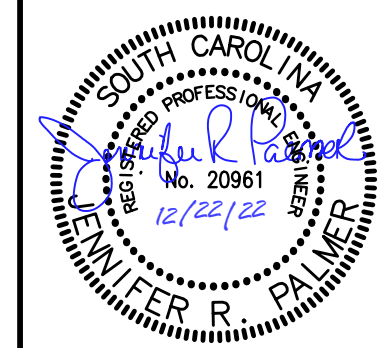
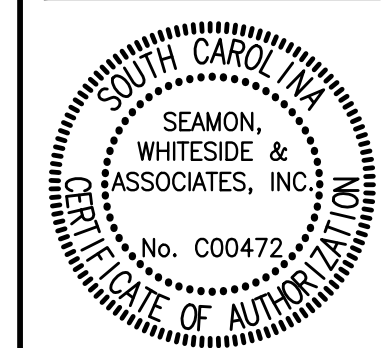
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SCALE: 1" = 40'

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**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

|   |          |            |
|---|----------|------------|
| A | 6/12/20  |            |
| B | 10/29/20 |            |
| C | 01/22/21 | 6 10/11/21 |
| D | 03/11/21 | 8 12/22/22 |
| 2 | 04/01/21 |            |
| 3 | 05/11/21 |            |

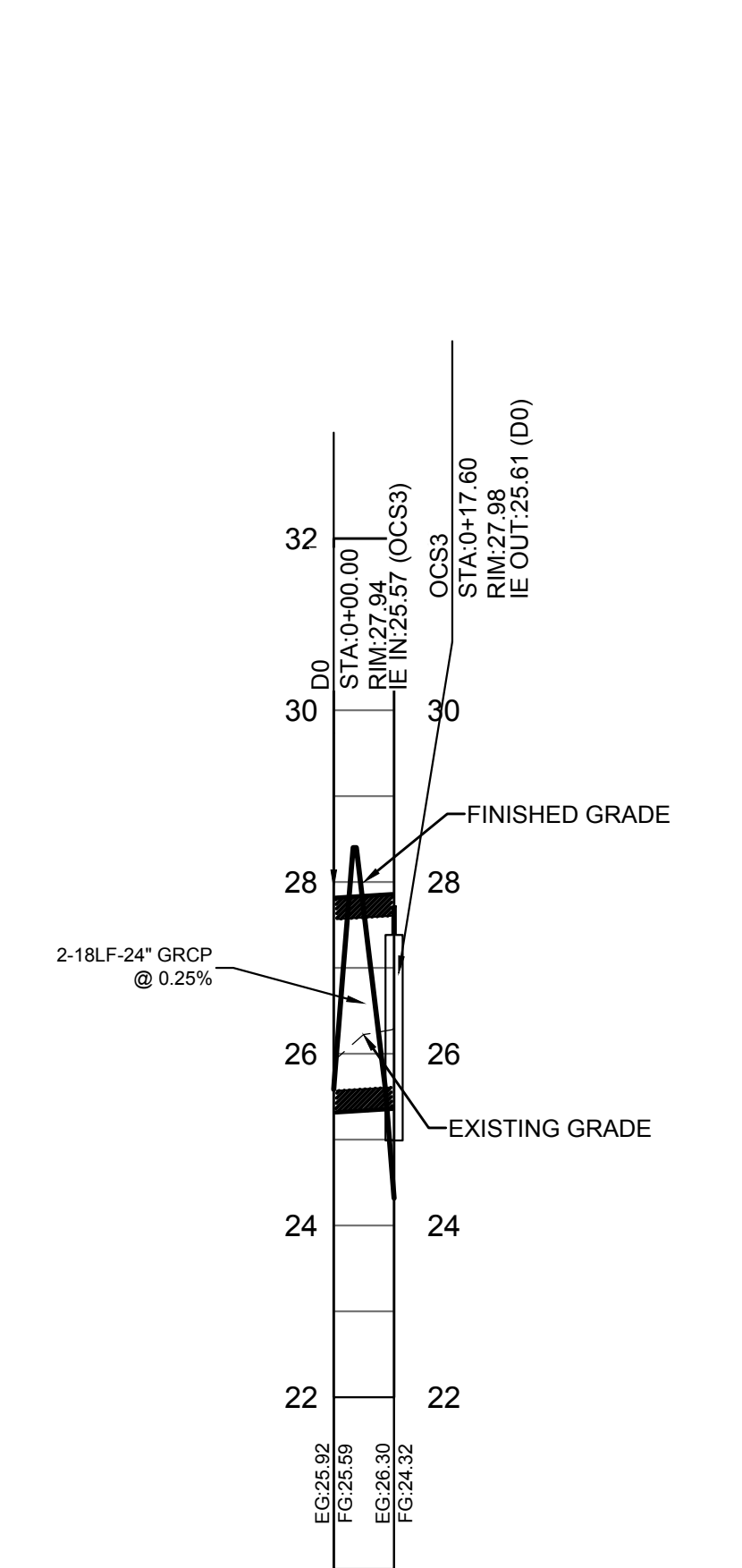
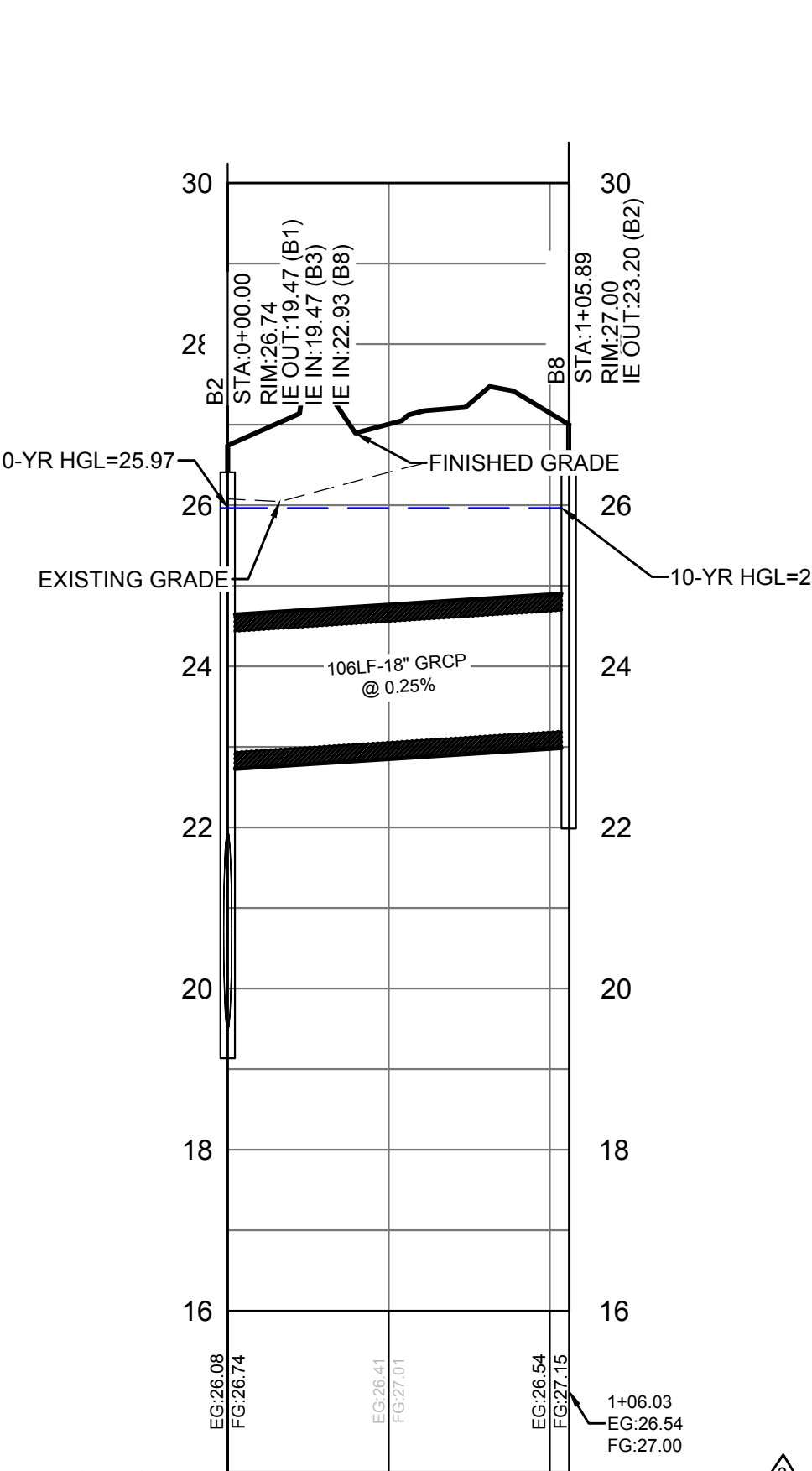
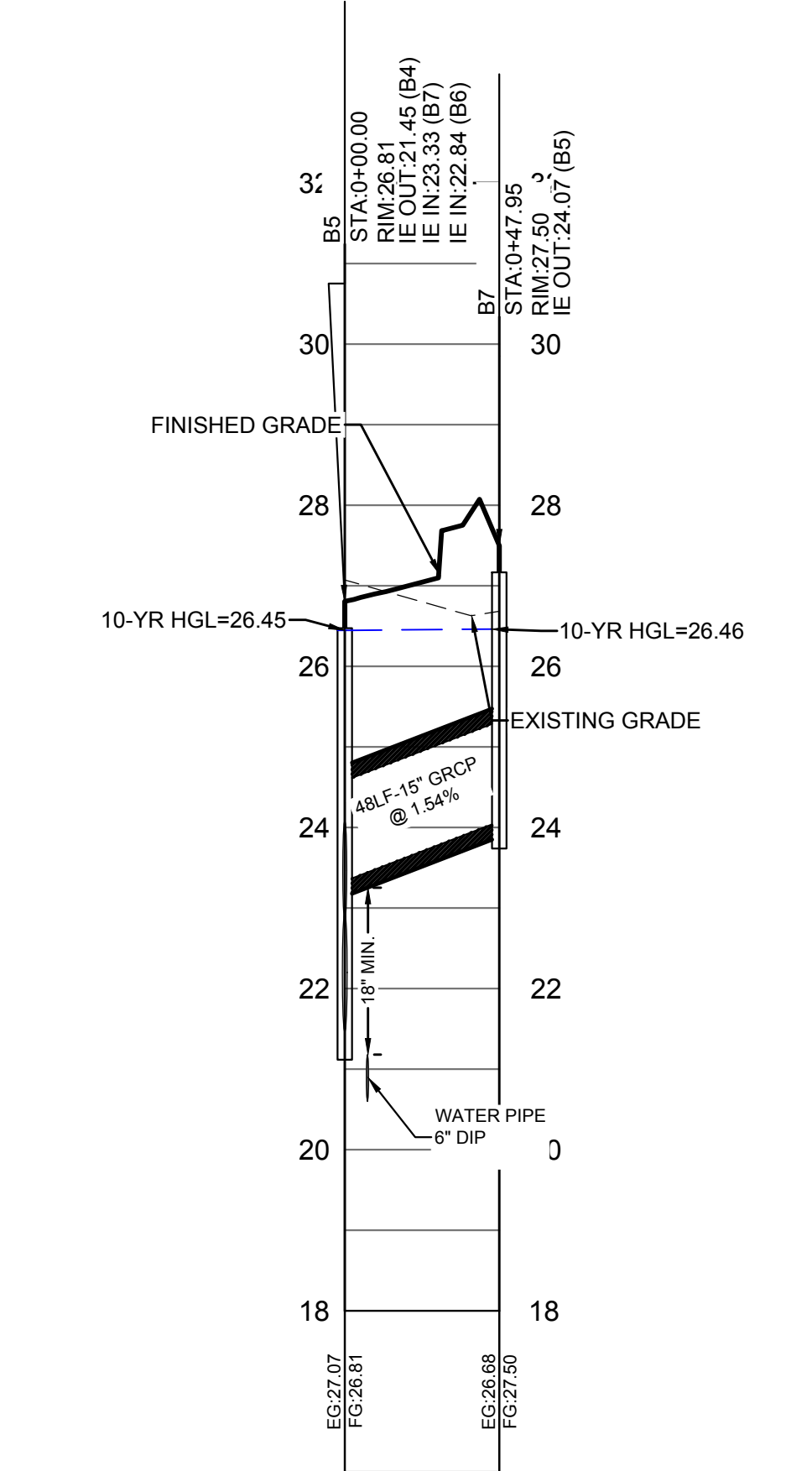
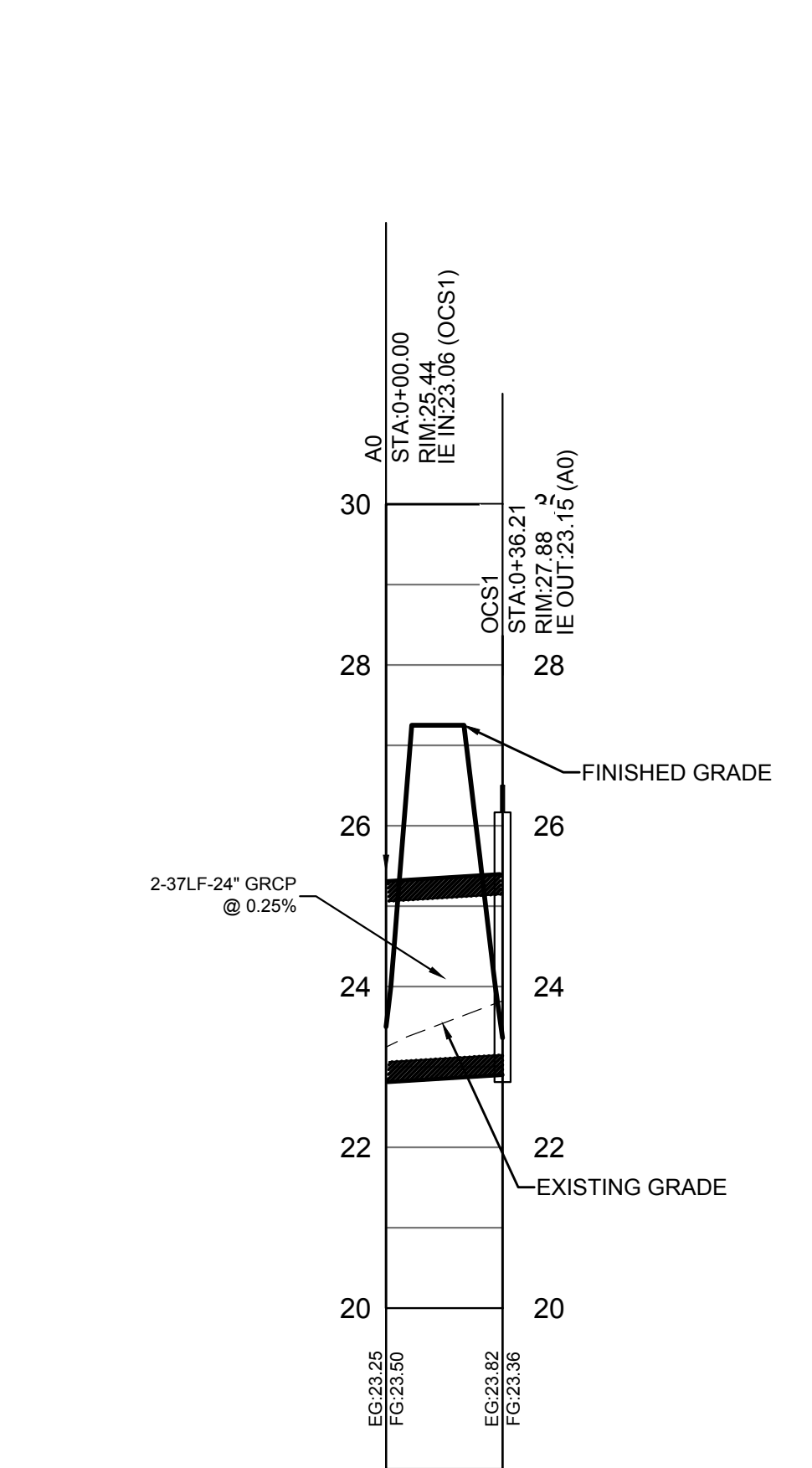
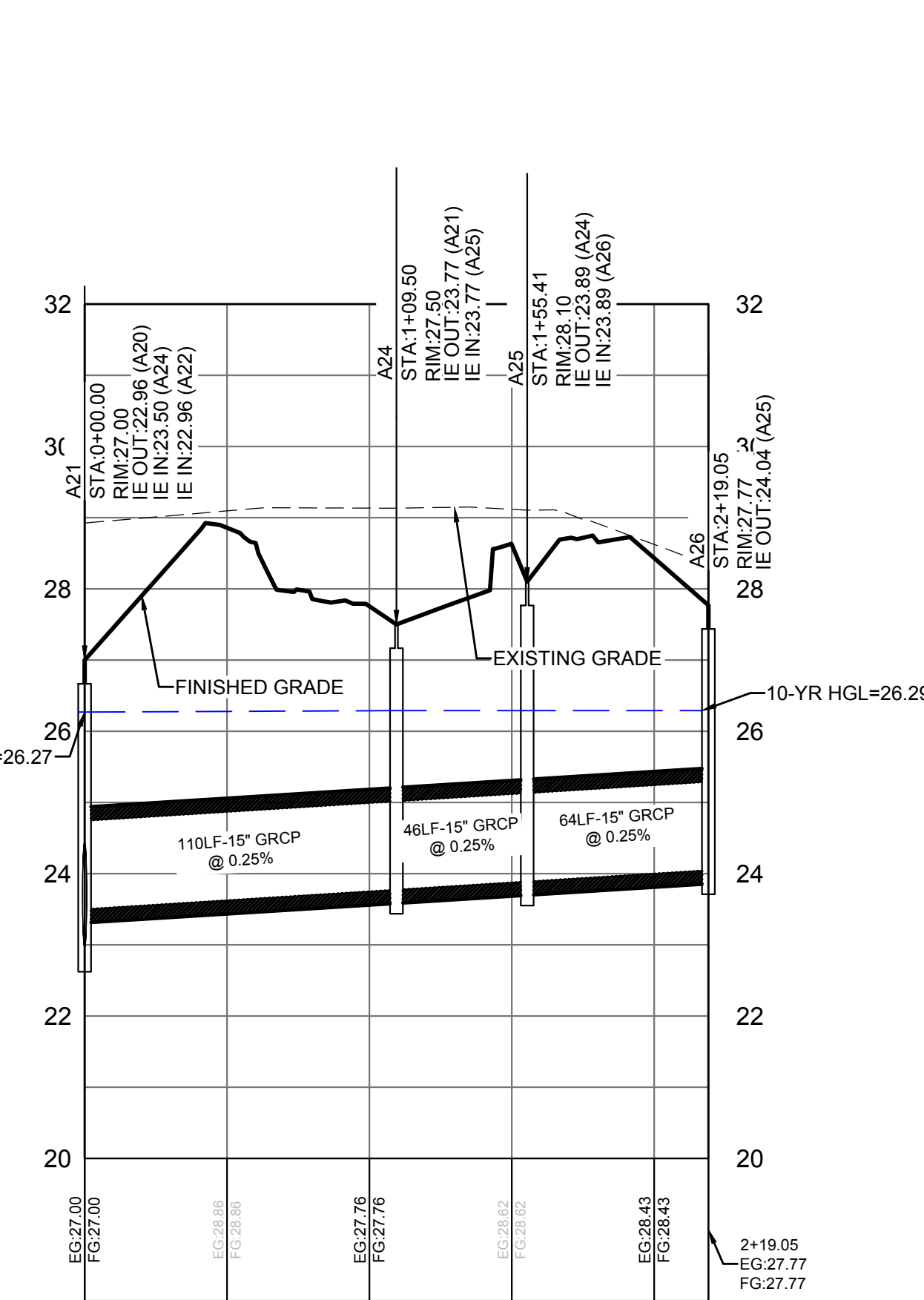
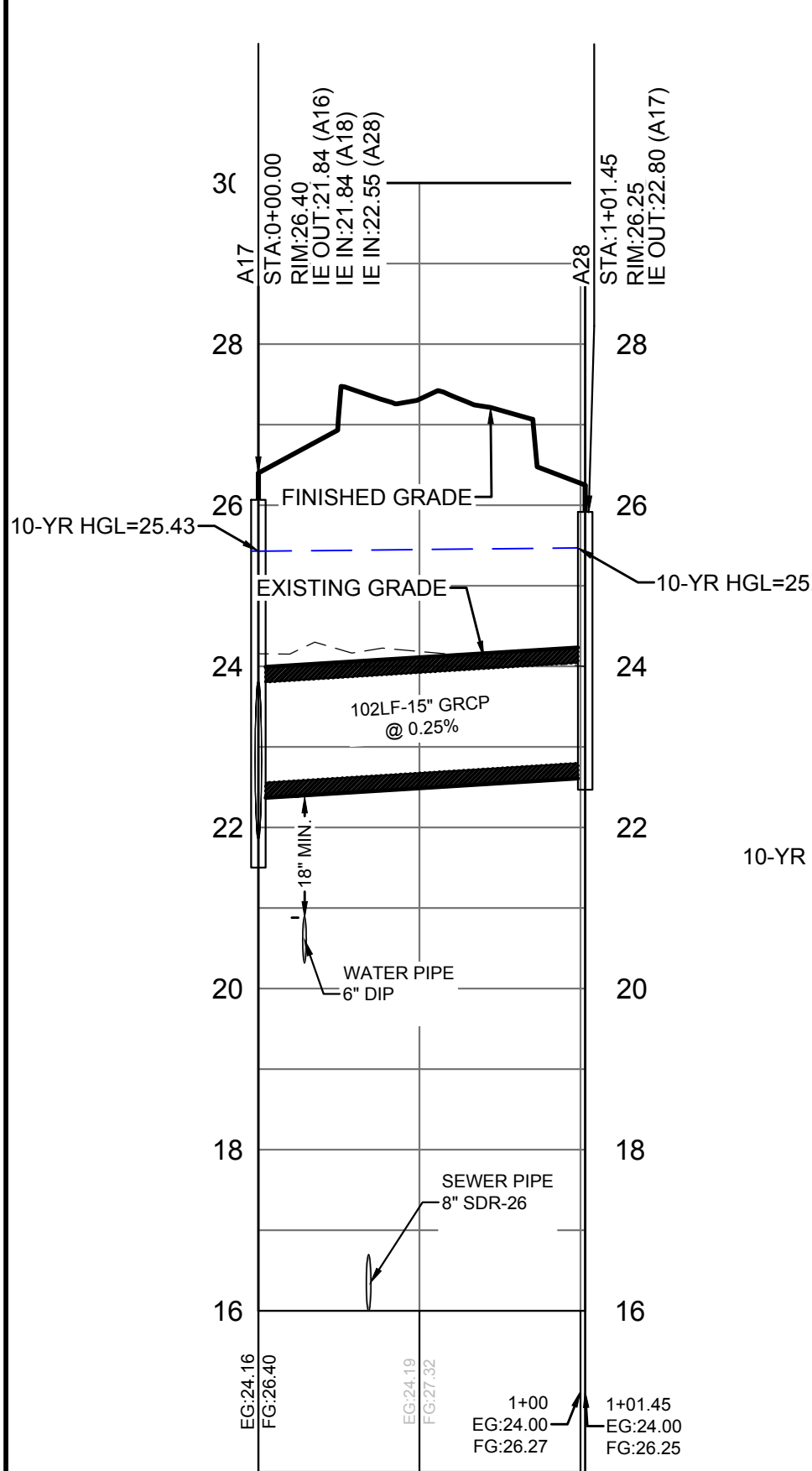
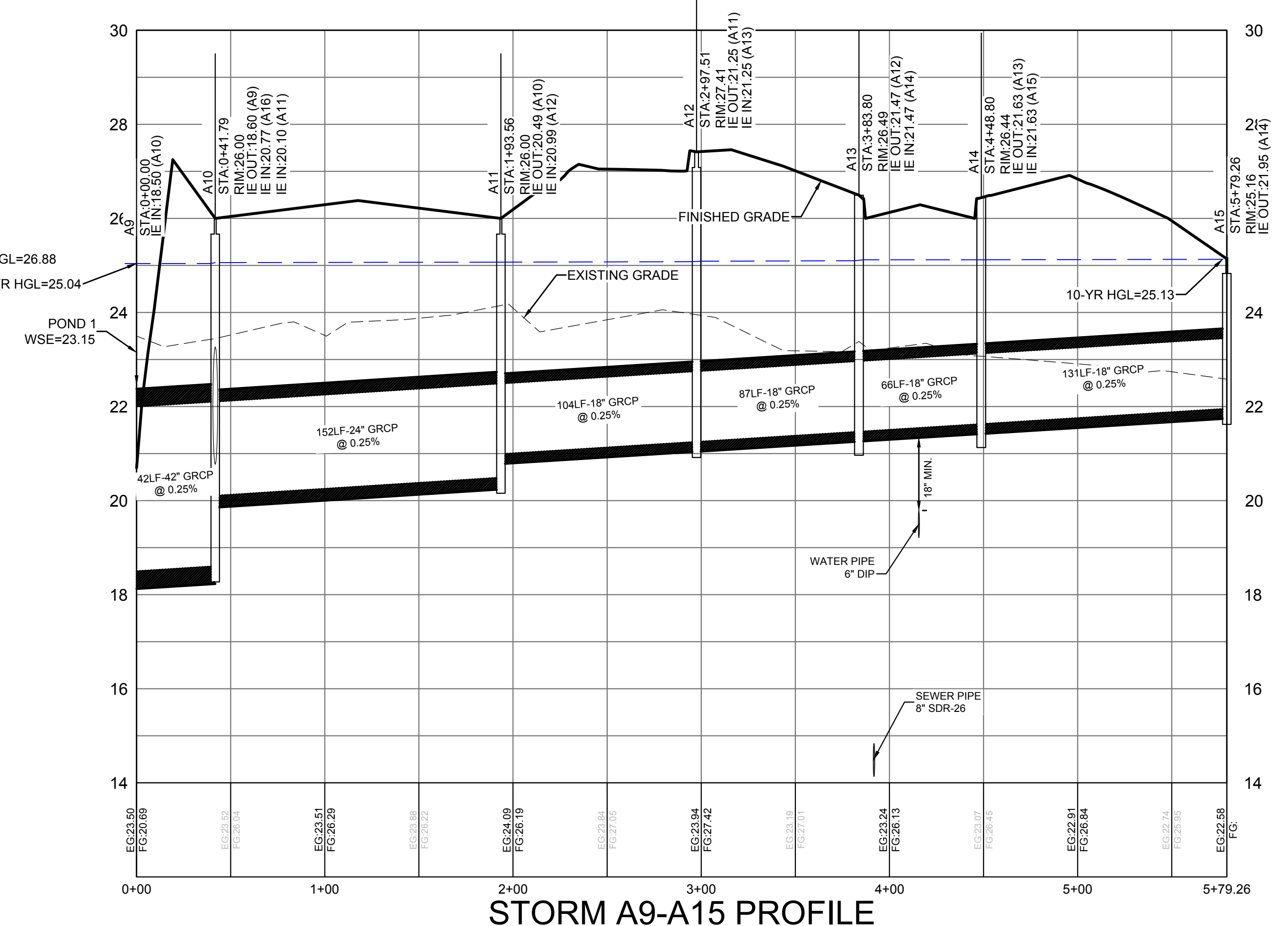
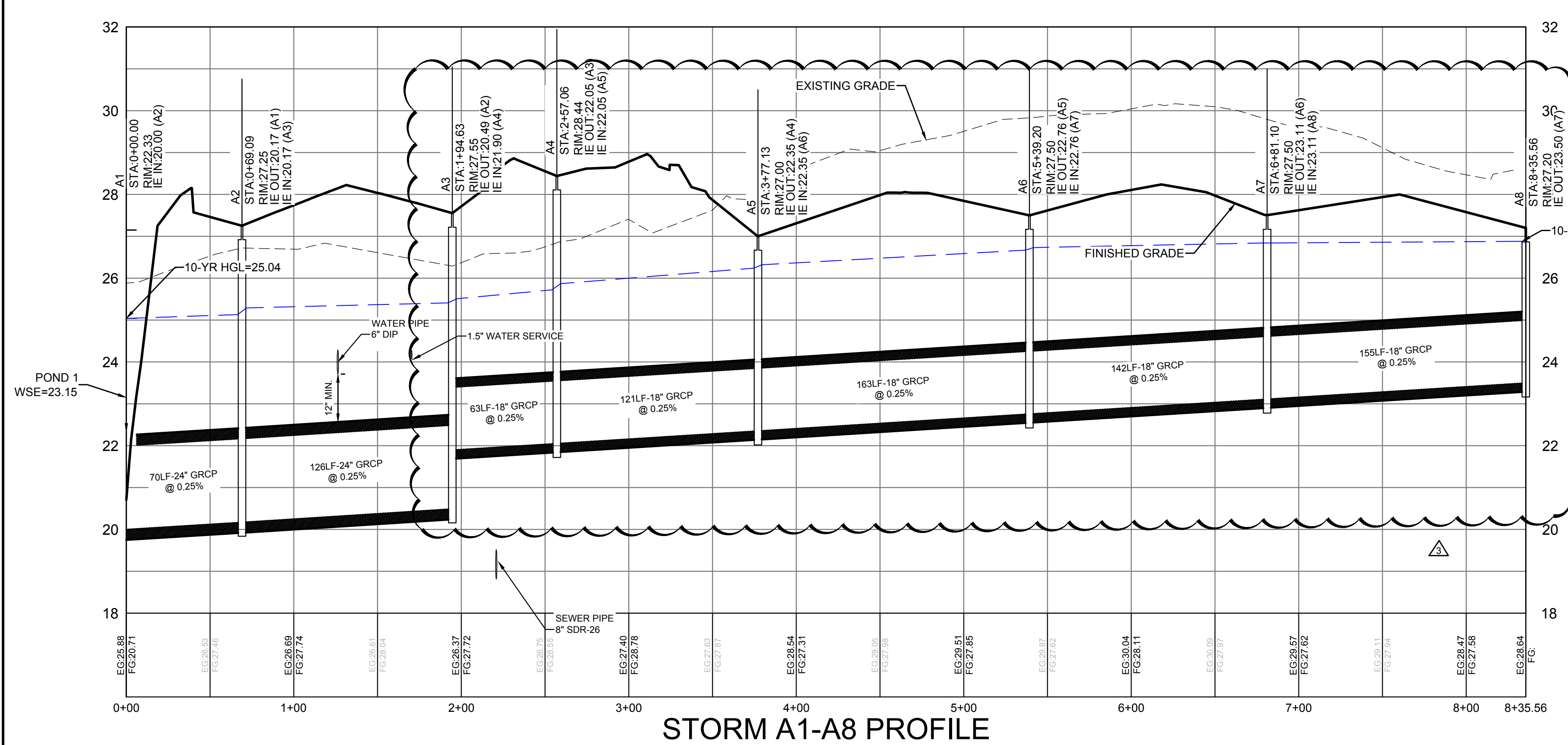
DRAINAGE PLAN



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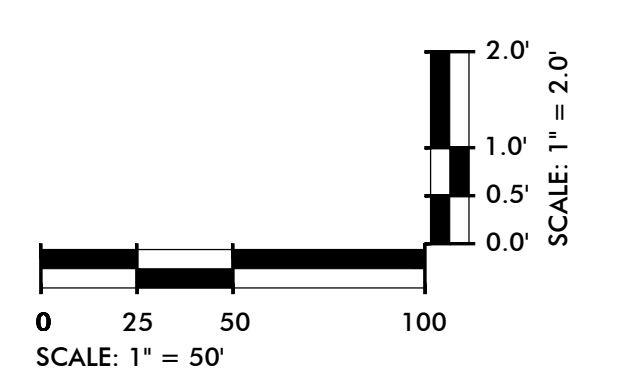
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**LINETYPE LEGEND**

|  |   |
|--|---|
|  | FINISHED GRADE                              |
|  | EXISTING GROUND                             |
|  | HYDRAULIC GRADE LINE<br>25 YEAR STORM EVENT |



**DRAINAGE STRUCTURE LEGEND & DEFINITION OF RIM ELEVATIONS**

N.B. - SEE DETAIL SHEET FOR STRUCTURE DETAILS

| TYPE 16, 17, 18 CURB INLET |        |        |       | TYPE 1 CURB INLET |  |
|----------------------------|--------|--------|-------|-------------------|--|
|                            |        |        |       |                   |  |
| CI-16                      | CI-17L | CI-17R | CI-18 | CI-1              |  |

\*RIM = ELEVATION AT CENTER OF TOP  
\*\*TOP OF SLAB TO MATCH ADJACENT GROUND SLOPE

| DRAINAGE BASINS OR JUNCTION BOXES |    |    |    |    |     |
|-----------------------------------|----|----|----|----|-----|
|                                   |    |    |    |    |     |
| YI                                | CS | IB | CB | JB | SMH |

RIM = FRAME OR (THROAT ON TYPE 9)

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 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

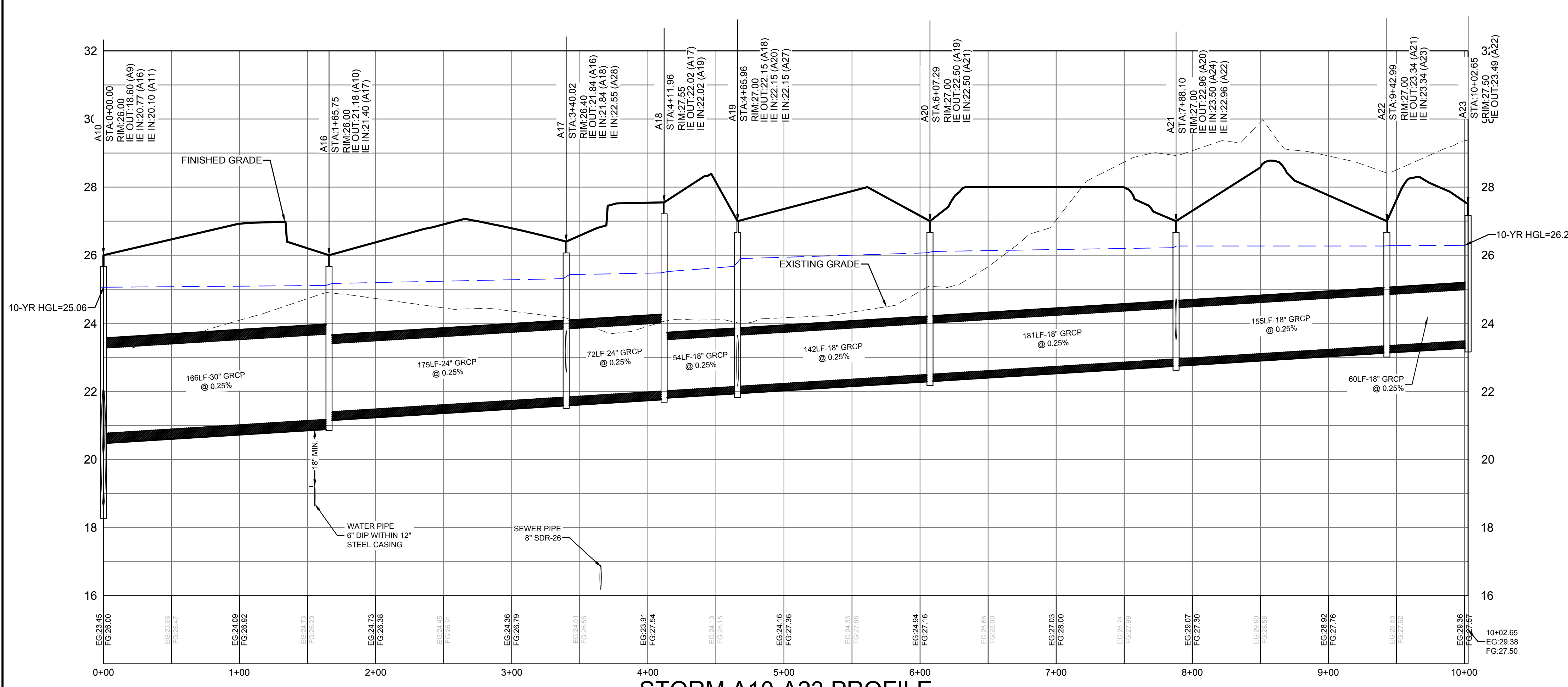
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|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| 0                | 03/11/21 |
| 1                | 03/26/21 |
| 3                | 05/11/21 |

**DRAINAGE PROFILES**

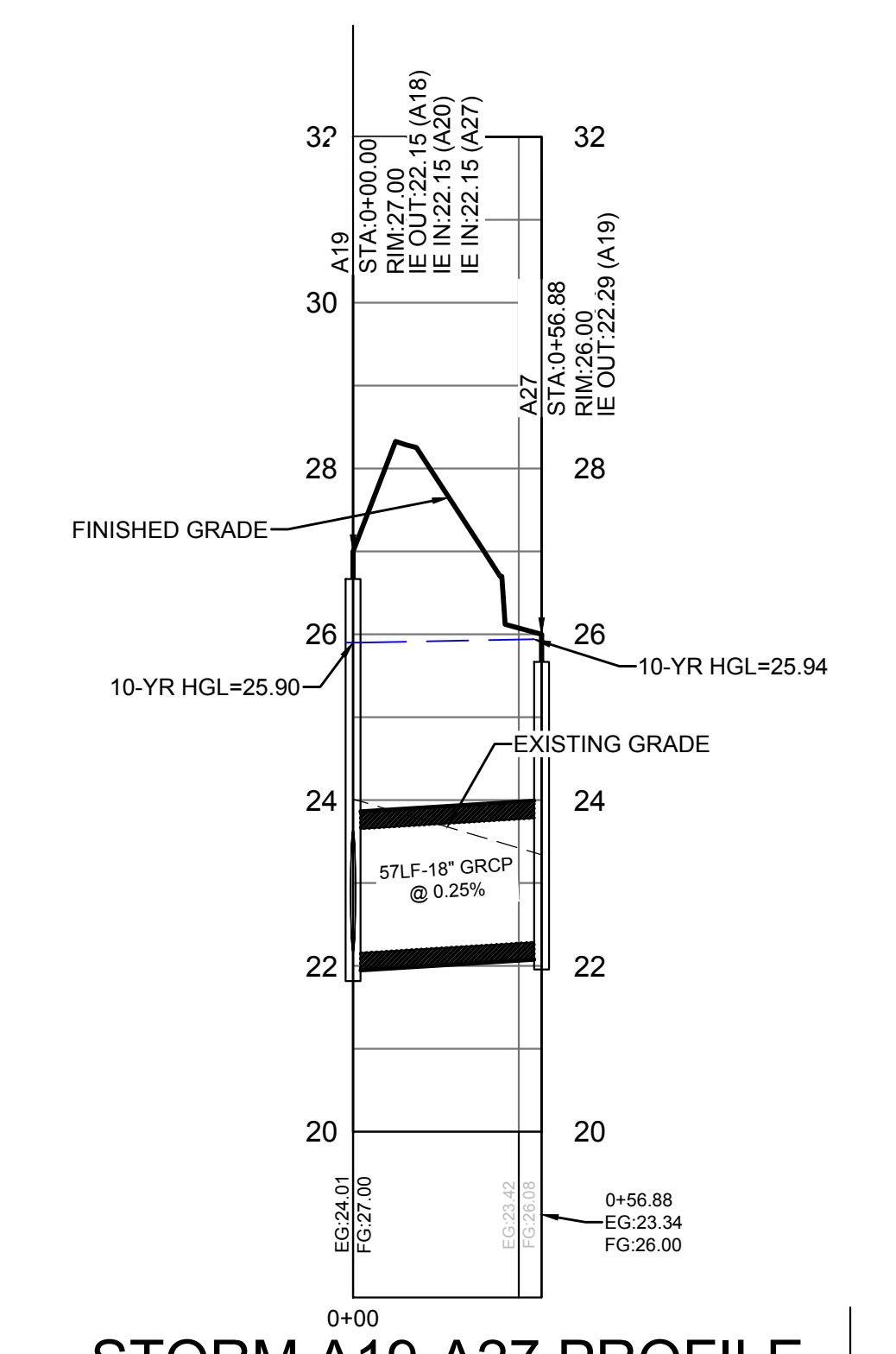
C7.5



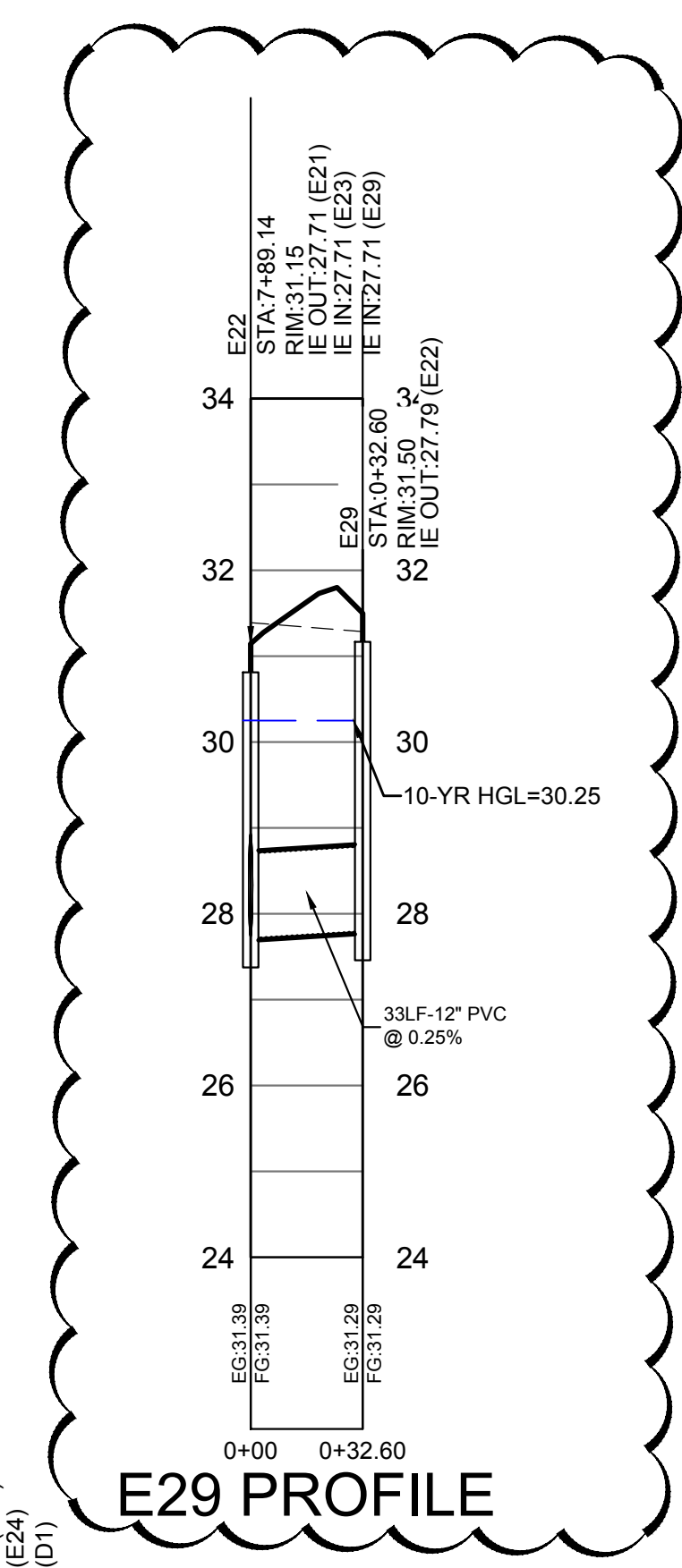
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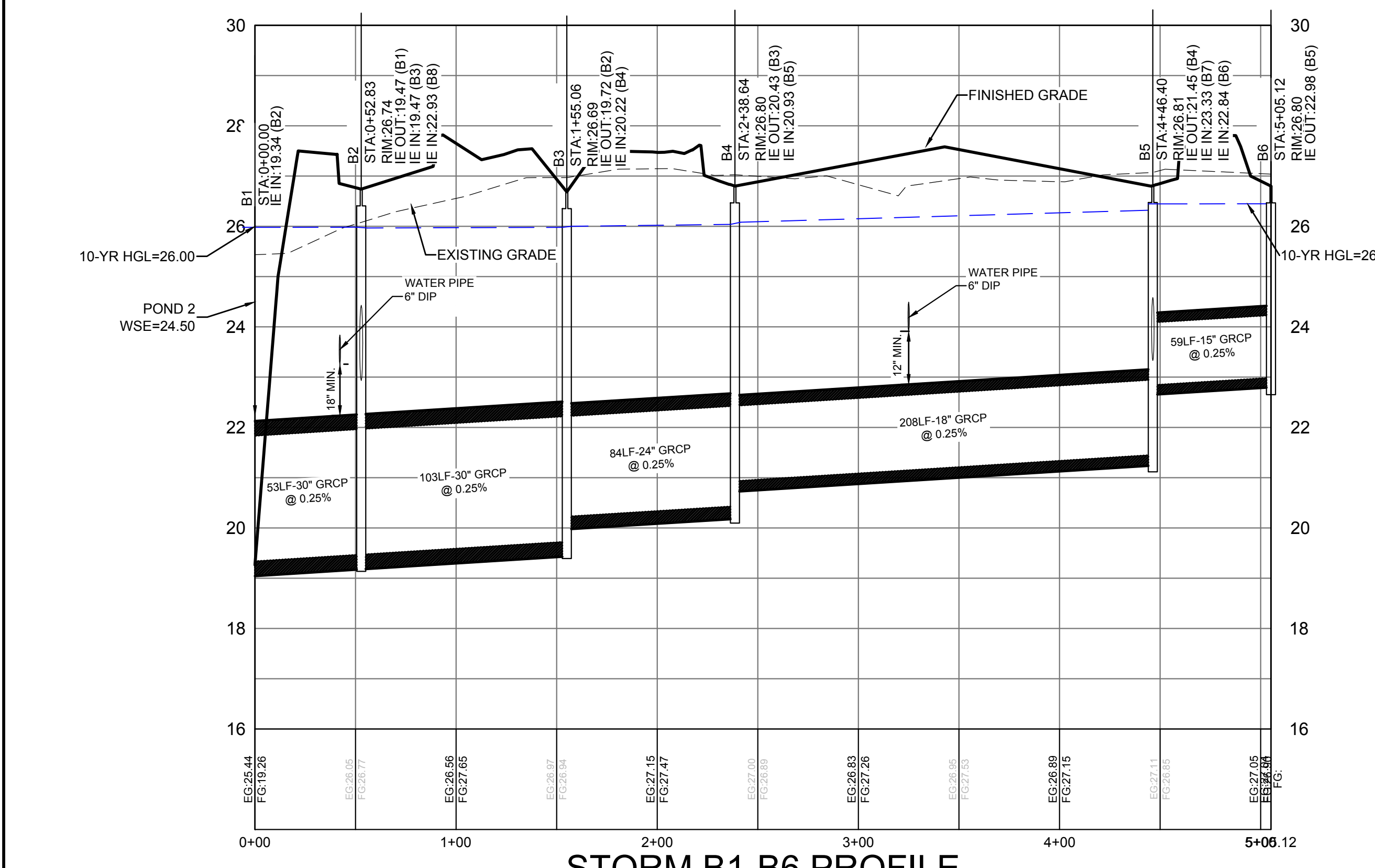
**STORM A10-A23 PROFILE**



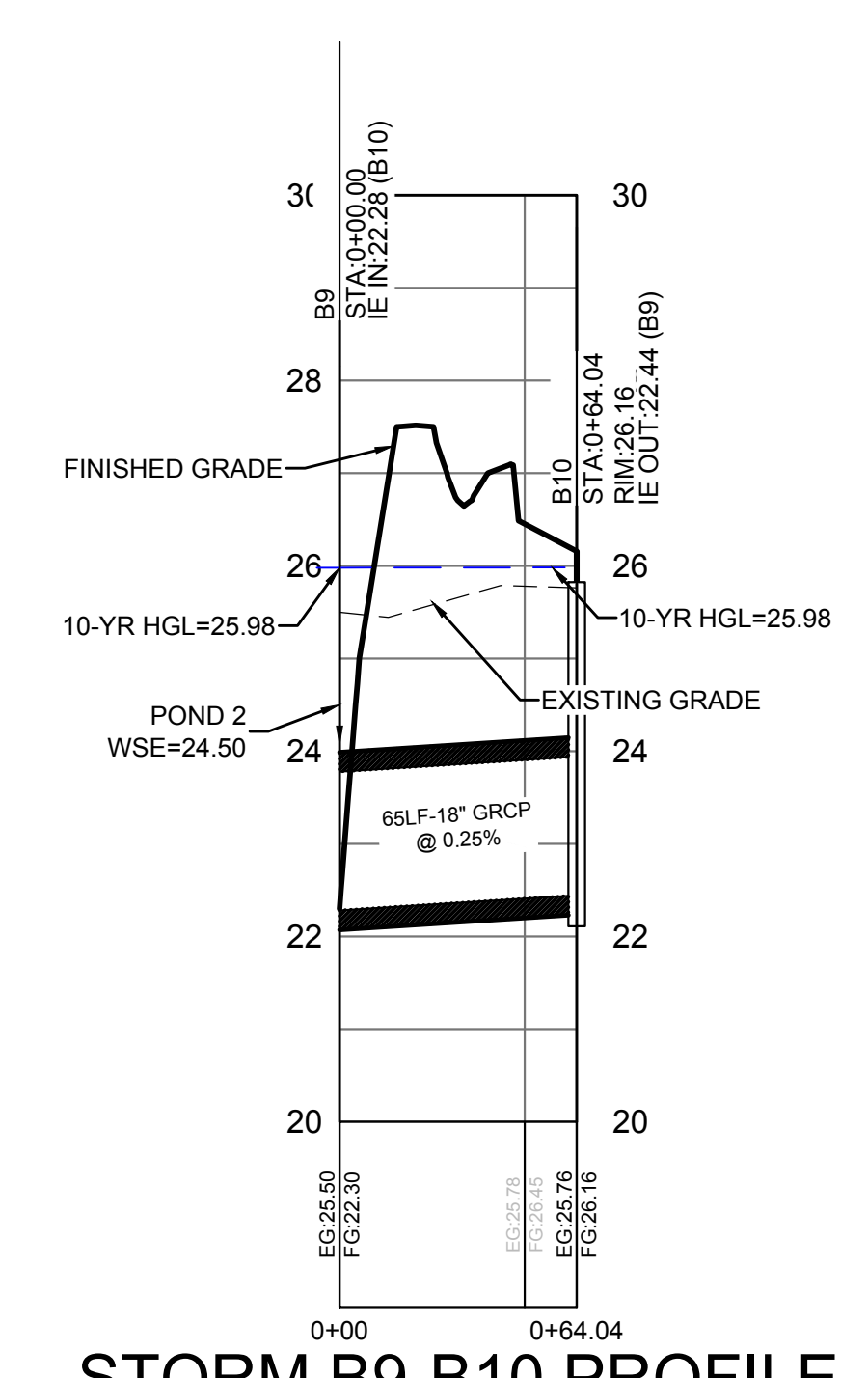
**STORM A19-A27 PROFILE**



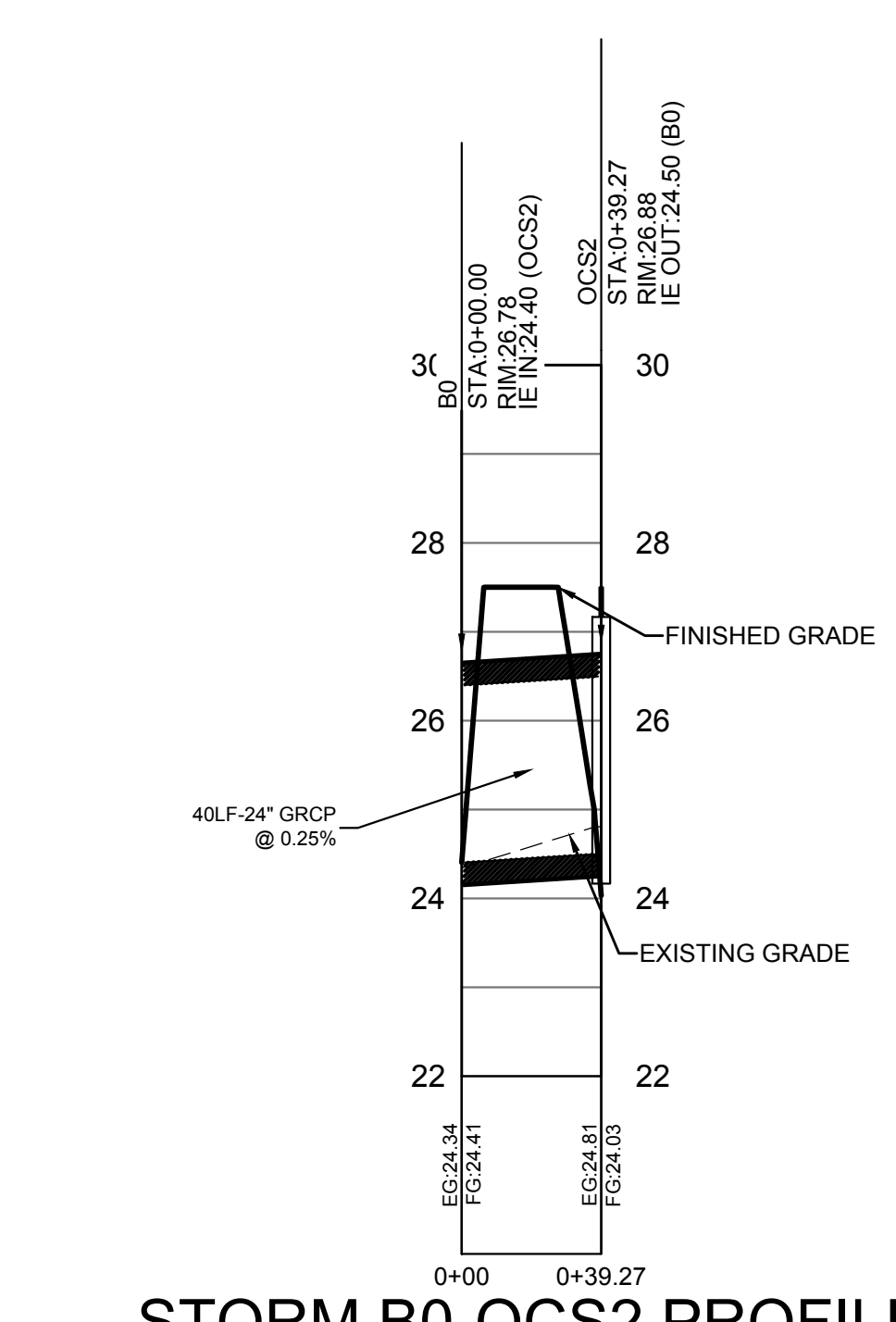
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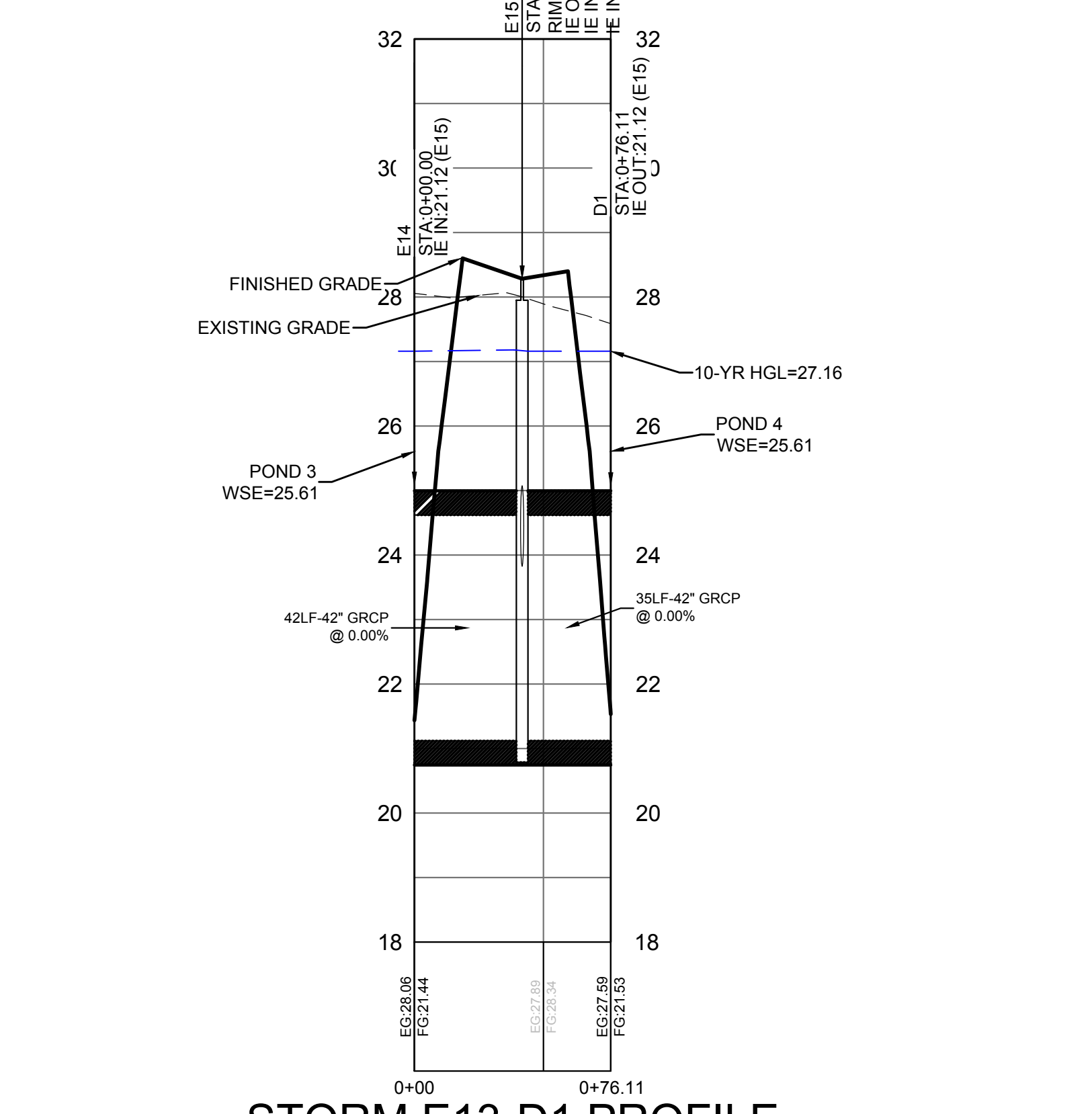
**STORM B1-B6 PROFILE**



**STORM B9-B10 PROFILE**

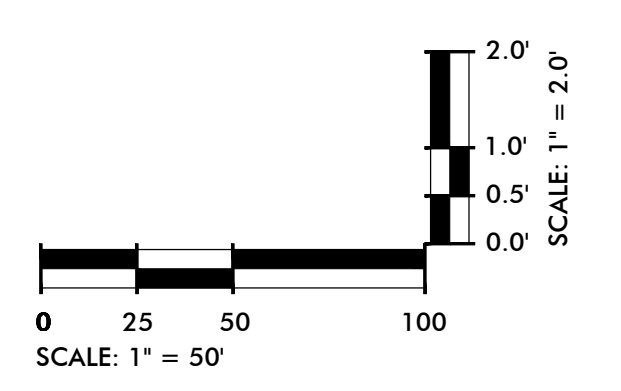


**STORM B0-OCS2 PROFILE**



**STORM E13-D1 PROFILE**

| LINETYPE LEGEND |   |
|-----------------|---|
|                 | FINISHED GRADE                              |
|                 | EXISTING GROUND                             |
|                 | HYDRAULIC GRADE LINE<br>25 YEAR STORM EVENT |



**DRAINAGE STRUCTURE LEGEND & DEFINITION OF RIM ELEVATIONS**  
 N.T.S. - SEE DETAIL SHEET FOR STRUCTURE DETAILS

| TYPE 16, 17, 18 CURB INLET  |  |  |  | TYPE 1 CURB INLET |  | CATCH BASINS OR JUNCTION BOXES       |  |  |  |  |  |  |
|---|--|--|--|-------------------|--|--------------------------------------|--|--|--|--|--|--|
|   |  |  |  |                   |  |                                      |  |  |  |  |  |  |
| *RIM = ELEVATION AT CENTER OF TOP<br>**TOP OF SLAB TO MATCH ADJACENT GROUND SLOPE |  |  |  | RIM (BOC)         |  | RIM = FRAME OR<br>(THROAT ON TYPE 9) |  |  |  |  |  |  |

PAVEMENT, BOC, RIM, GUTTER, GROUND, PAVEMENT, GROUND, PAVEMENT, GROUND

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SOUTH CAROLINA PROFESSIONAL ENGINEER  
 SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. C00472  
 STATE OF SOUTH CAROLINA  
 PALMETTO

SOUTH CAROLINA PROFESSIONAL ENGINEER  
 No. 20961  
 STATE OF SOUTH CAROLINA  
 PALMETTO

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

| REVISION HISTORY |            |
|------------------|------------|
| A                | 6/12/20    |
| B                | 10/29/20   |
| C                | 01/22/21   |
| D                | 03/11/21   |
|                  | 8 12/22/22 |
|                  | 3 05/11/21 |

**DRAINAGE PROFILES**

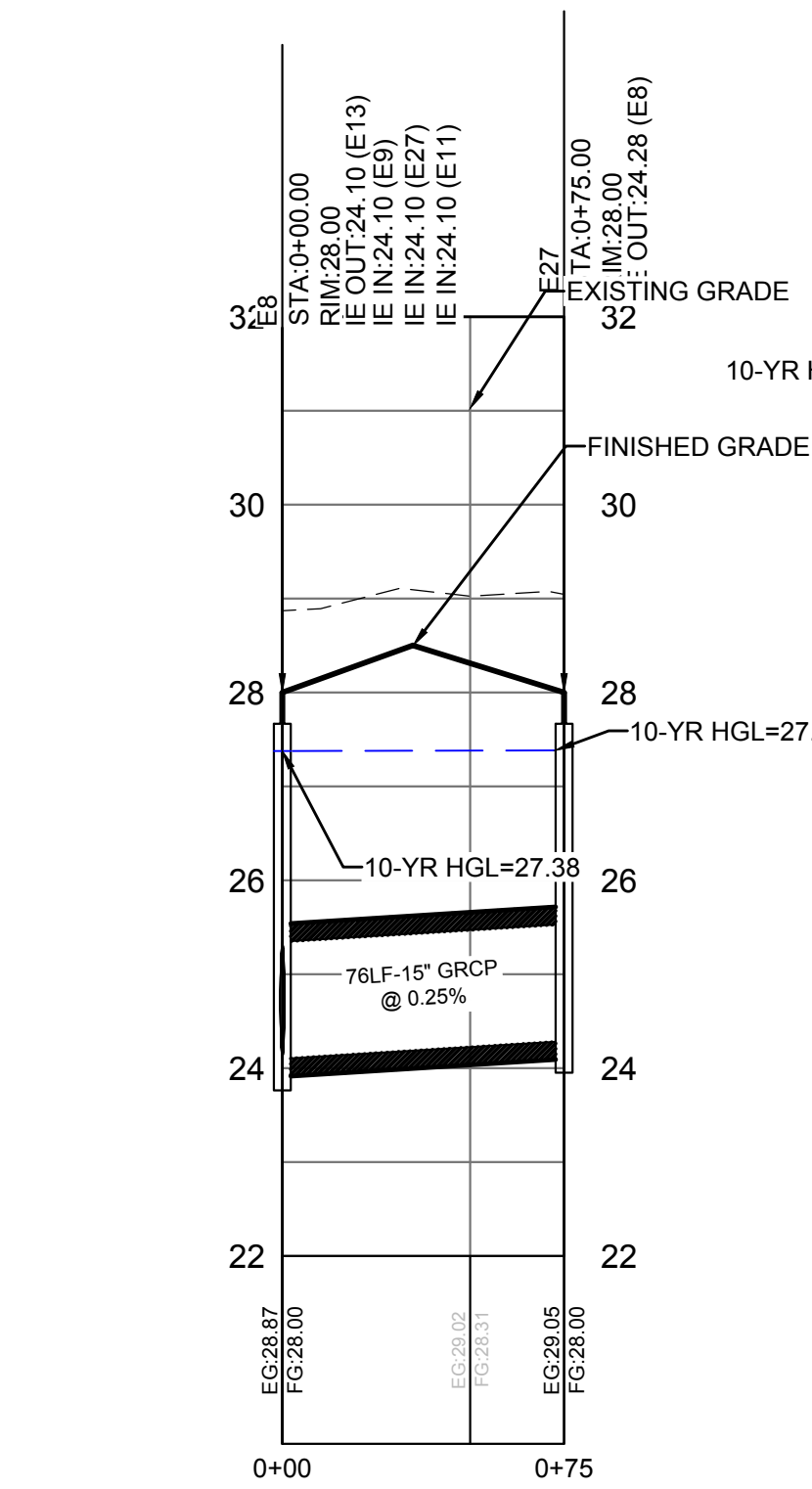
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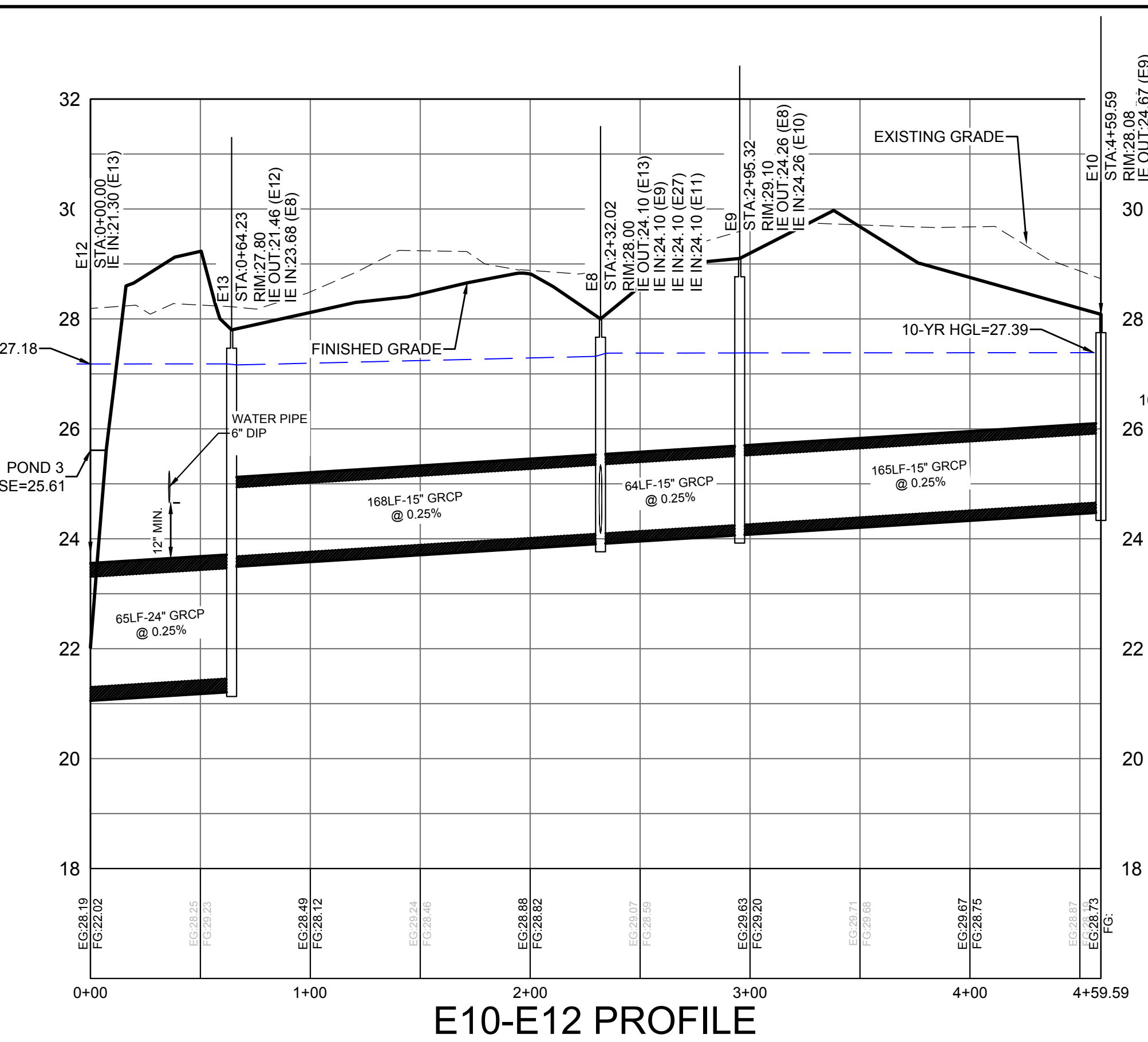
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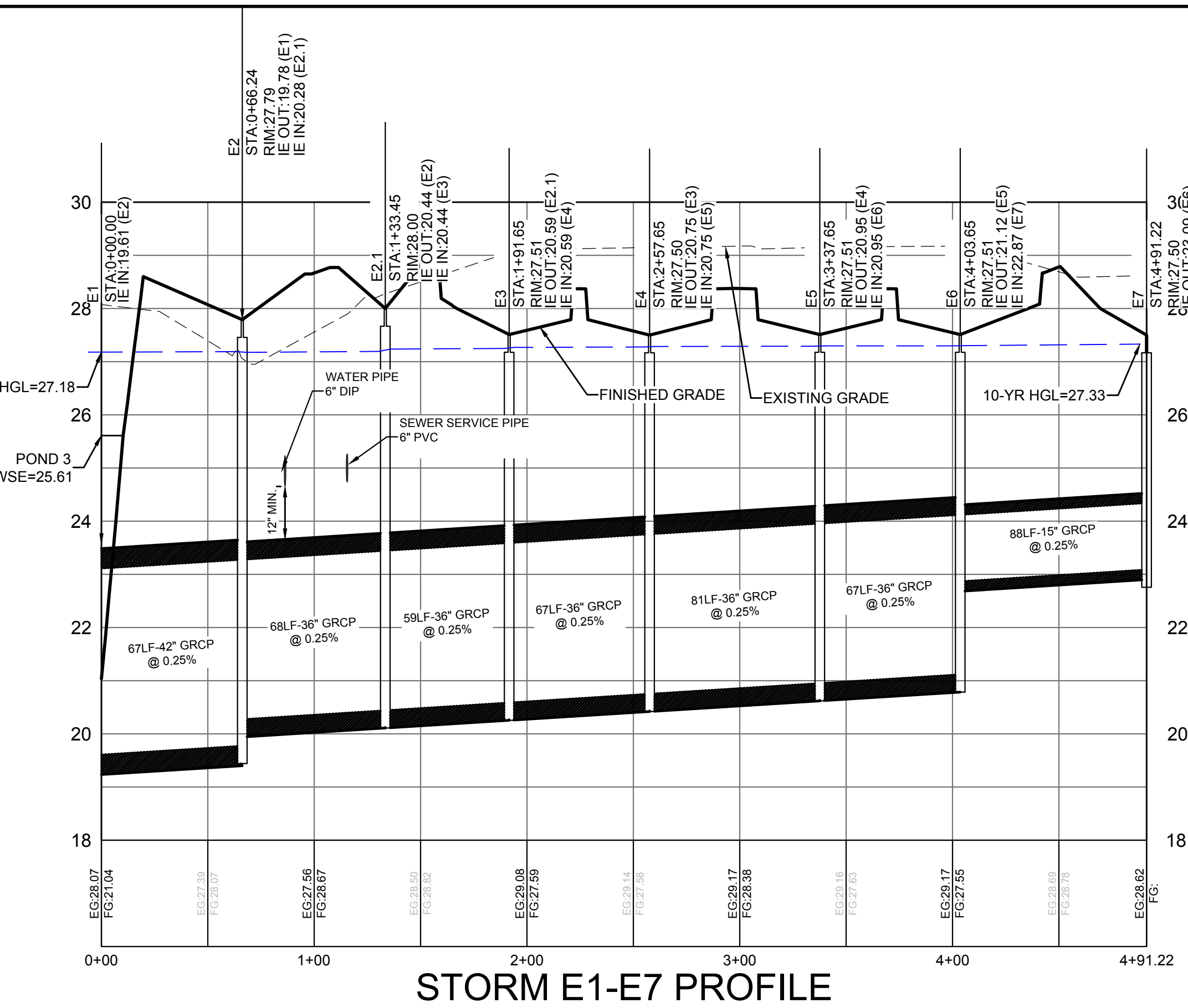
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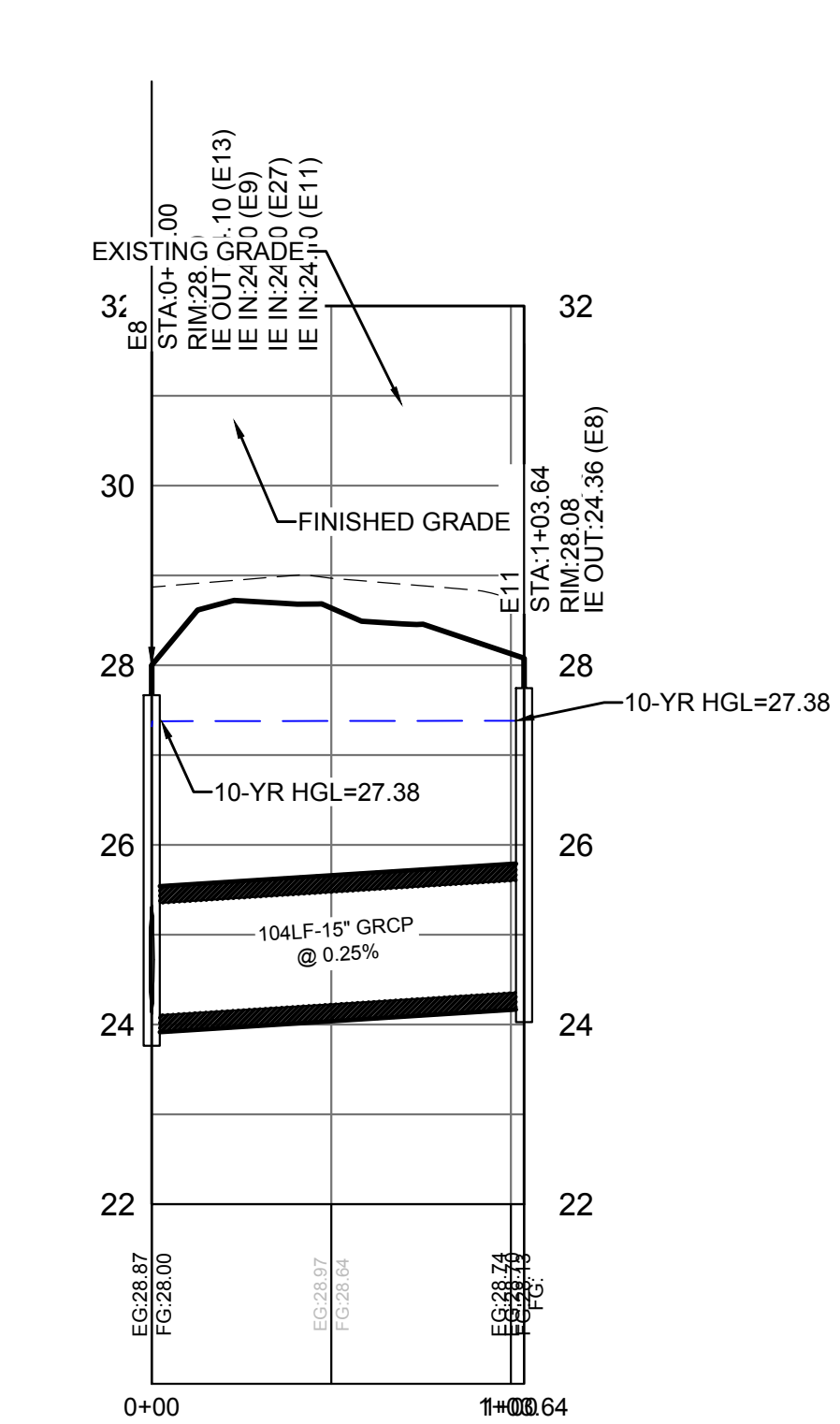
STORM E8-E27 PROFILE



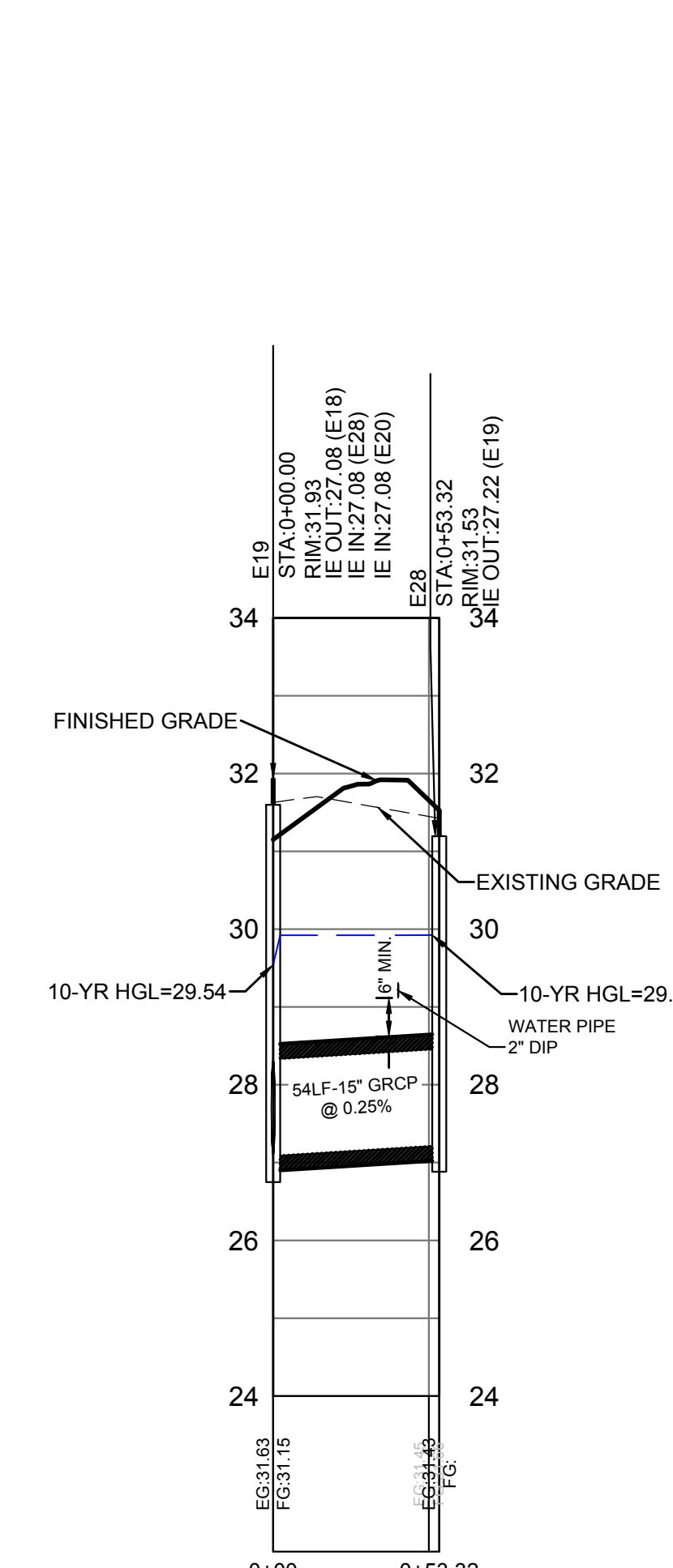
E10-E12 PROFILE



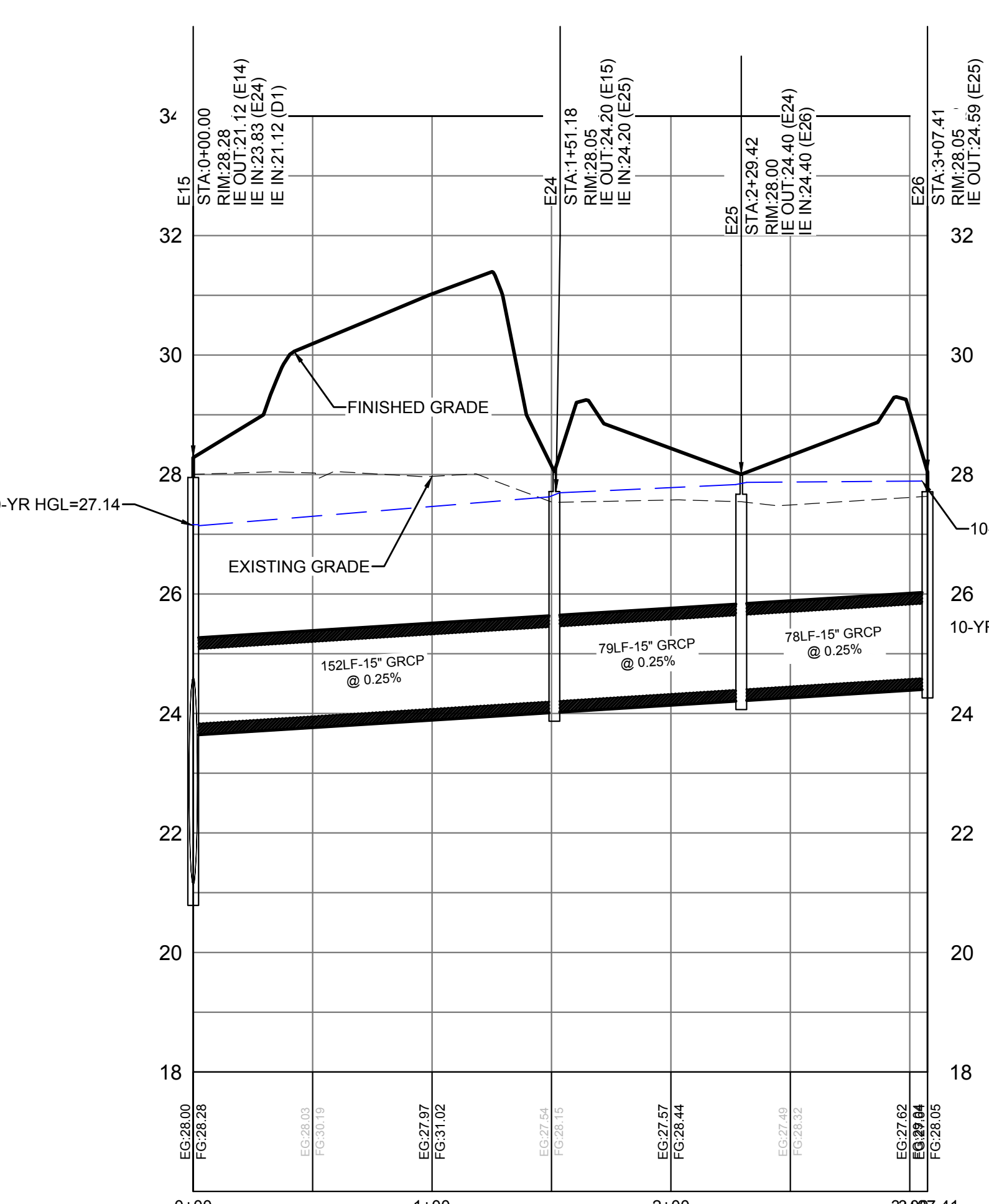
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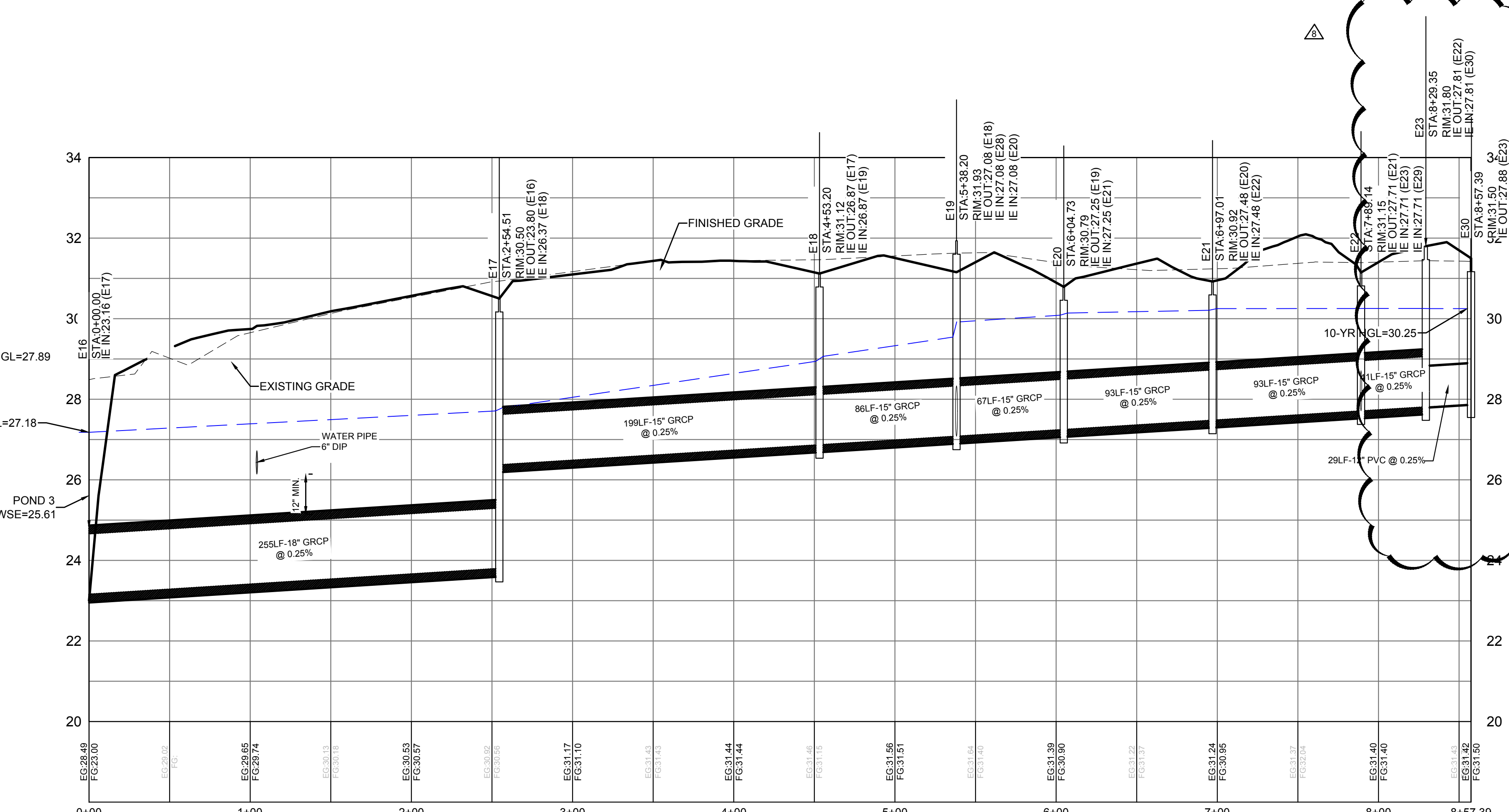
STORM E8-E11 PROFILE



STORM E19-E28 PROFILE



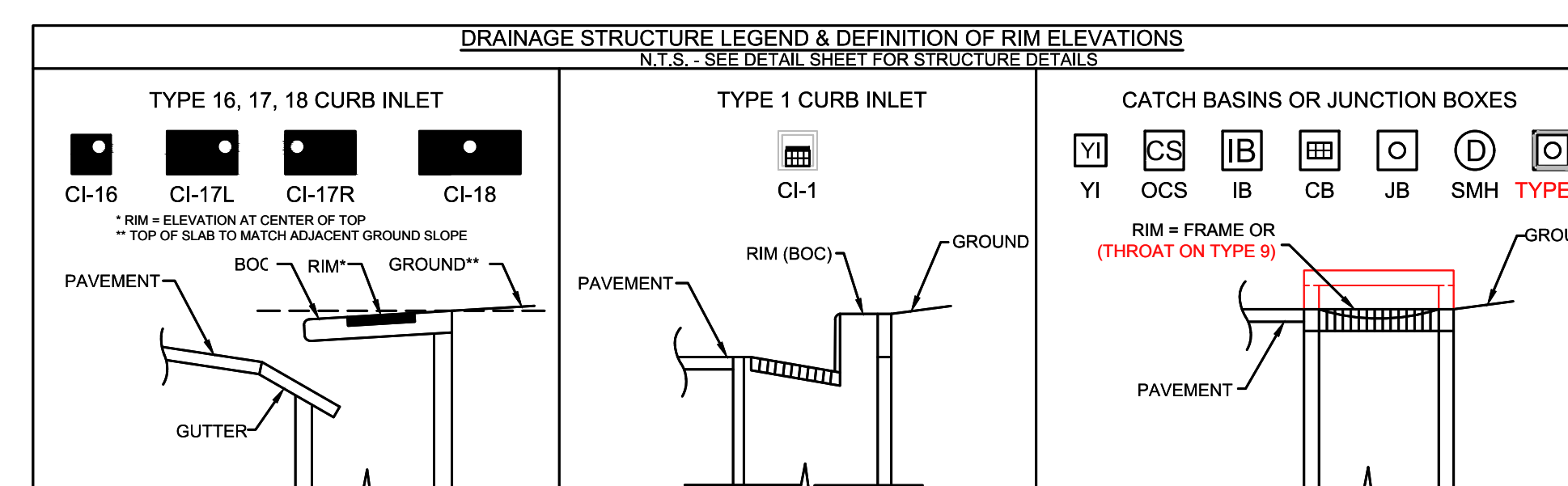
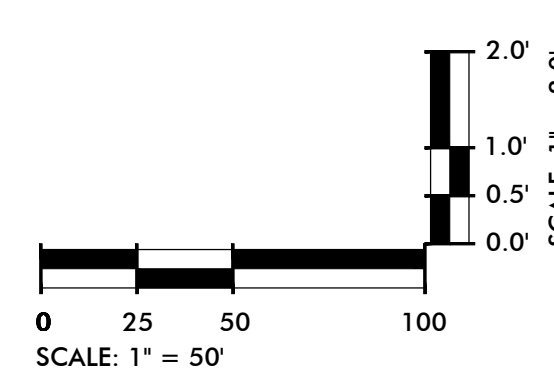
STORM E15-E26 PROFILE



STORM E16-E23 PROFILE

**LINETYPE LEGEND**

|  |   |
|--|---|
|  | FINISHED GRADE                              |
|  | EXISTING GROUND                             |
|  | HYDRAULIC GRADE LINE<br>25 YEAR STORM EVENT |



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LICENSED PROFESSIONAL ENGINEER  
STATE OF SOUTH CAROLINA

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**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

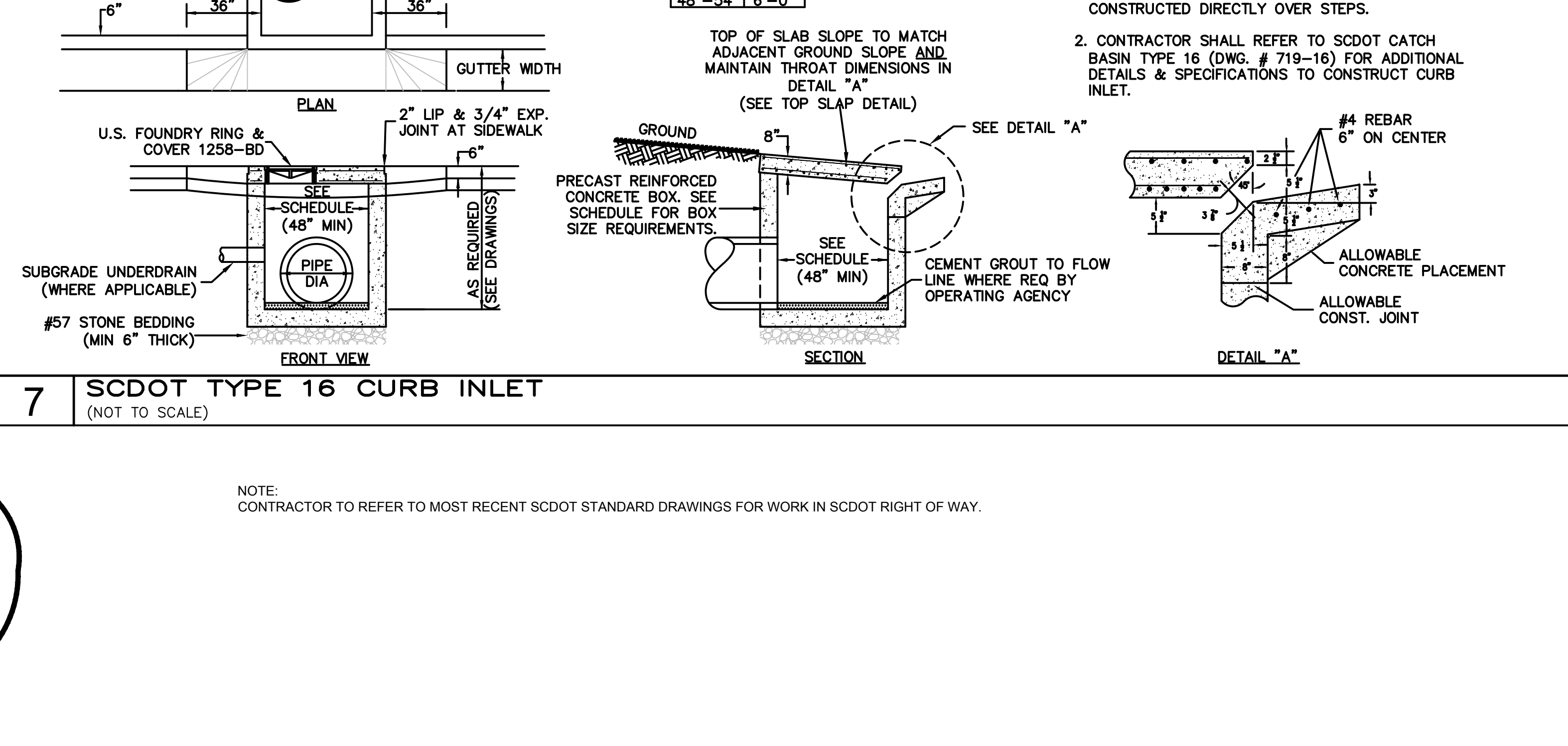
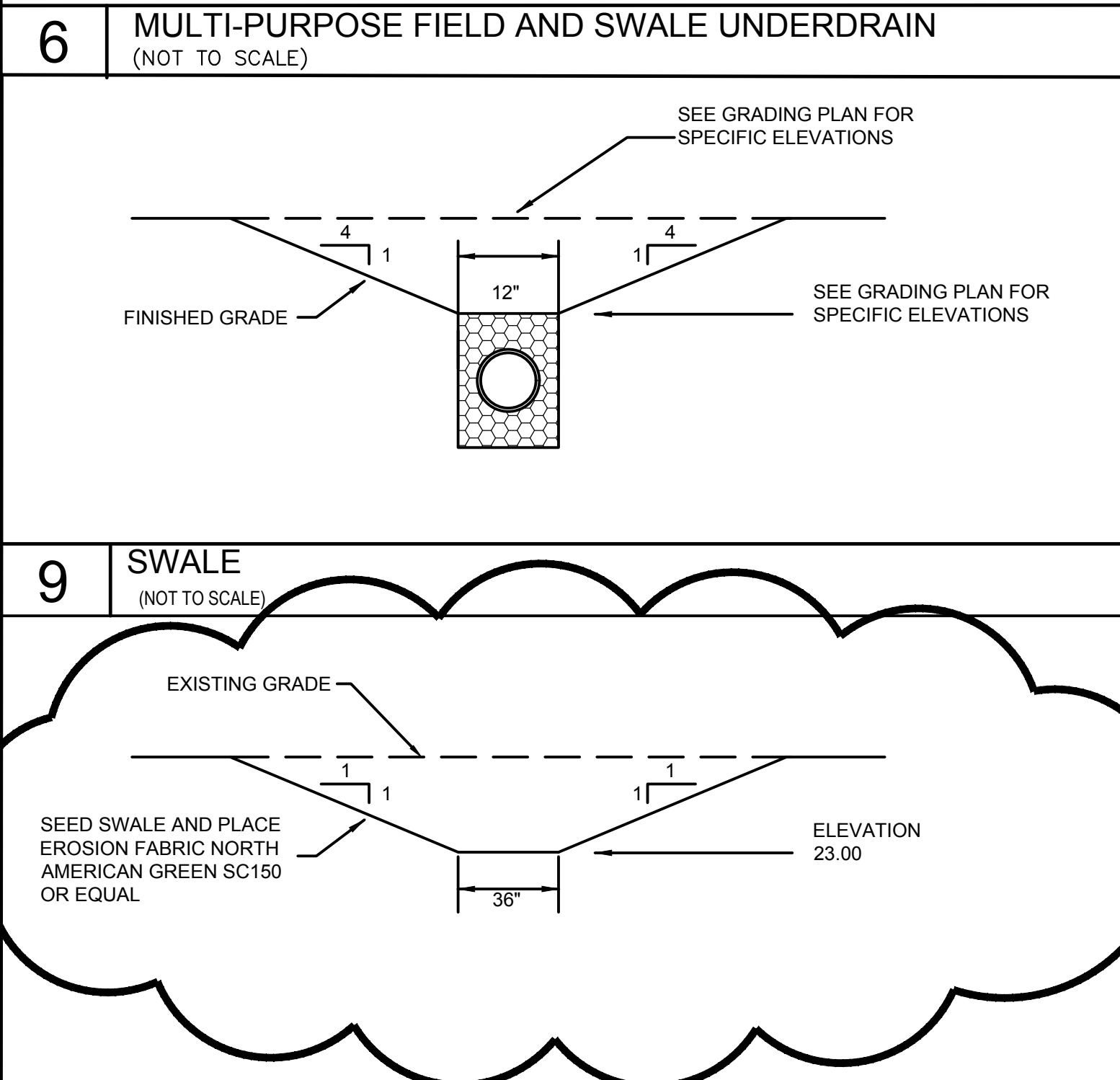
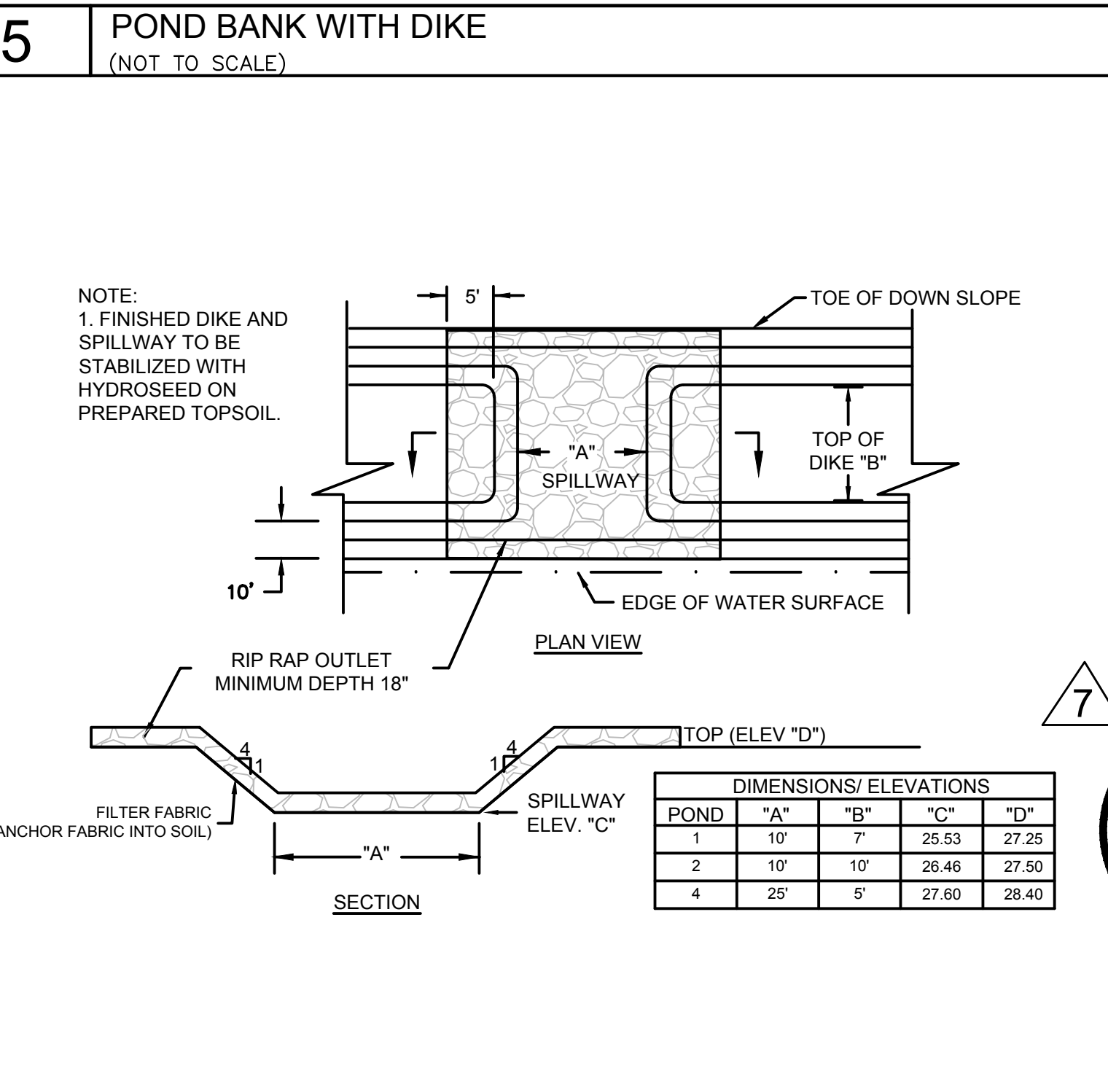
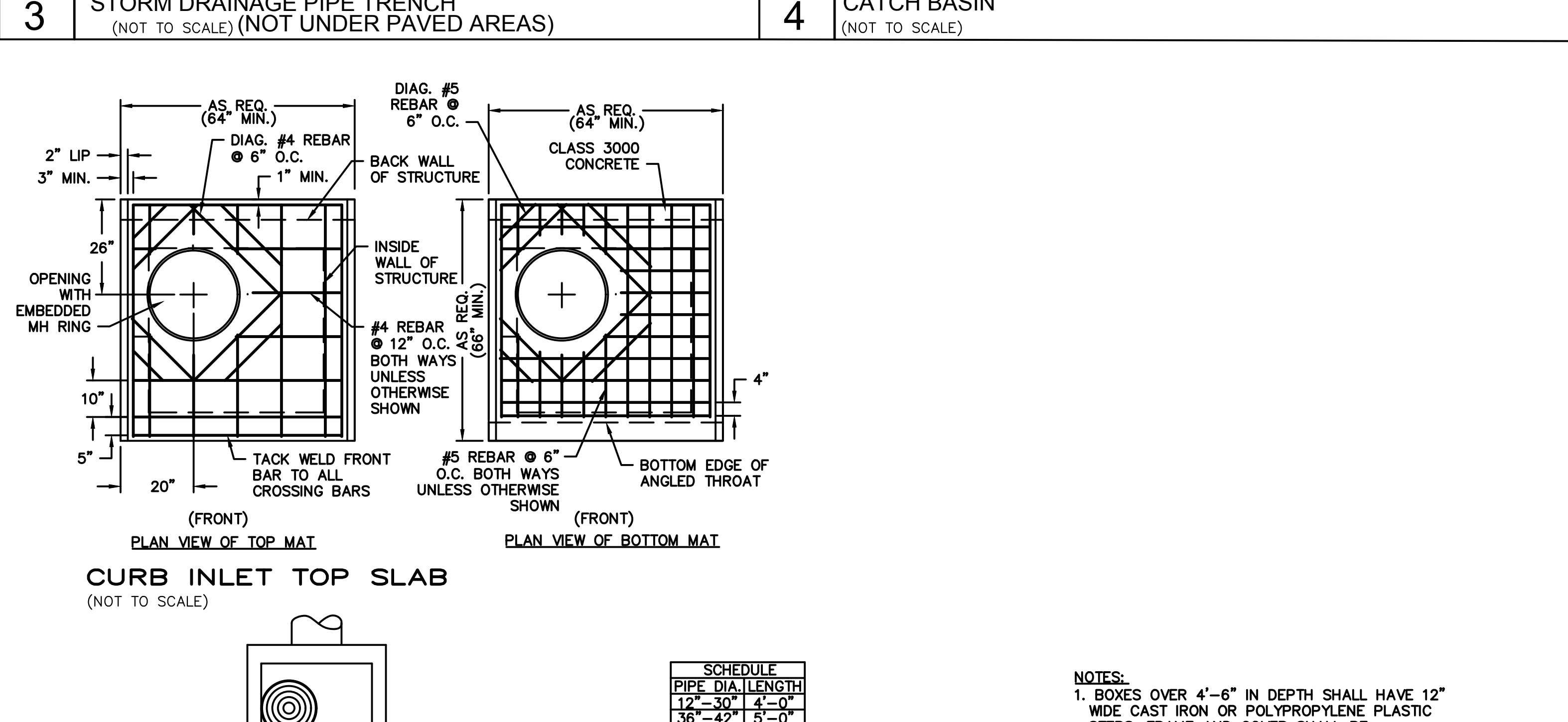
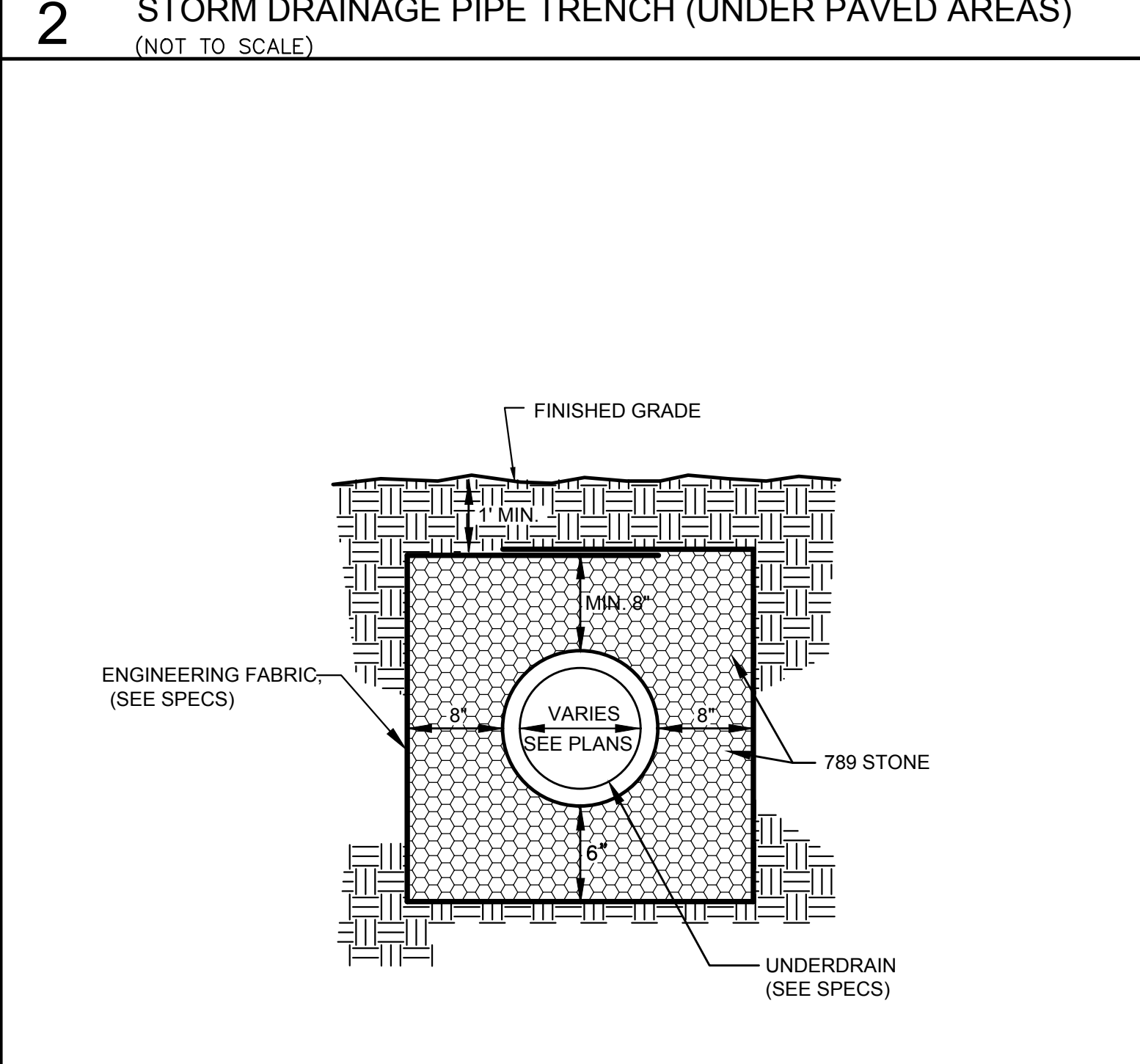
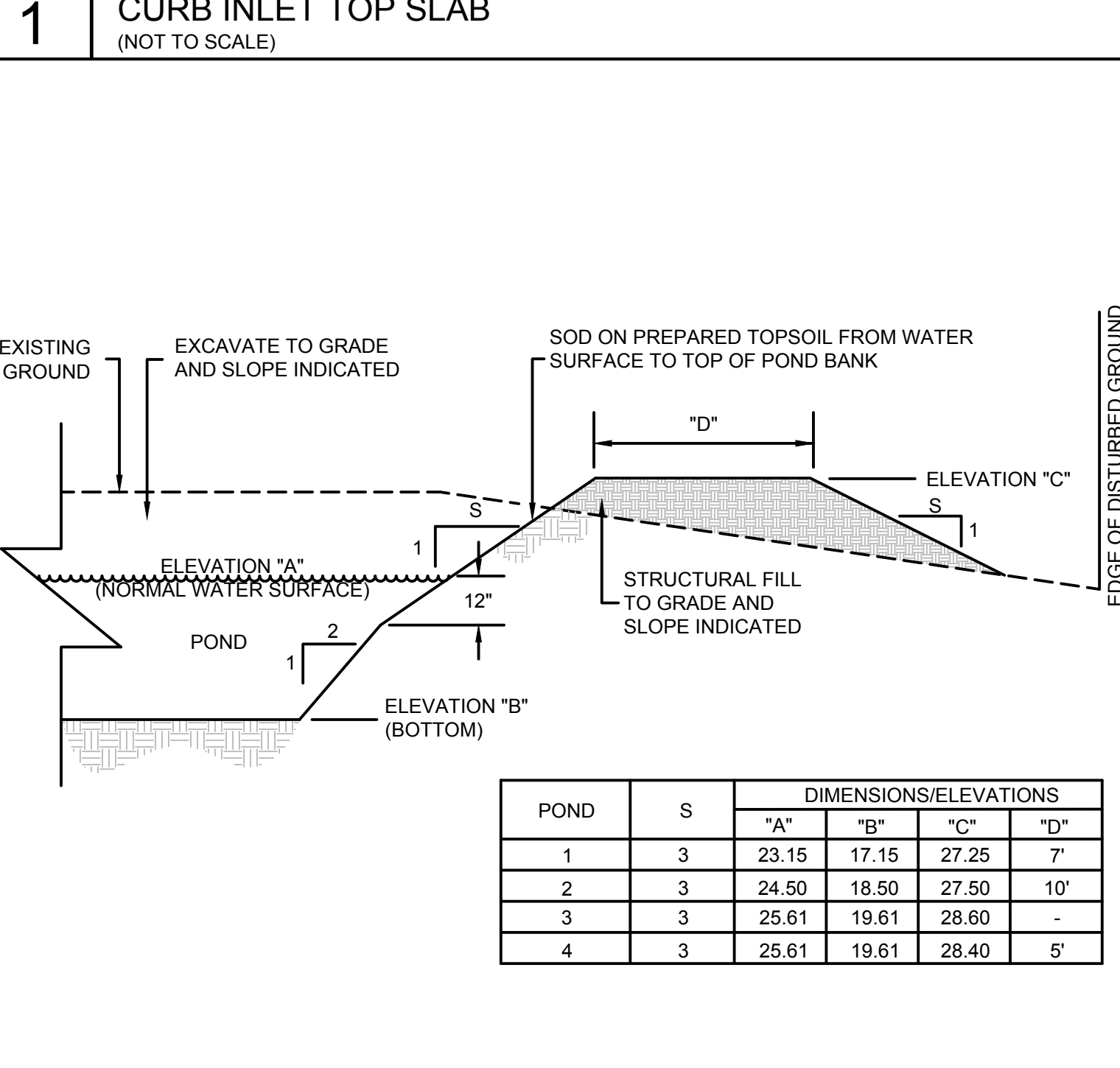
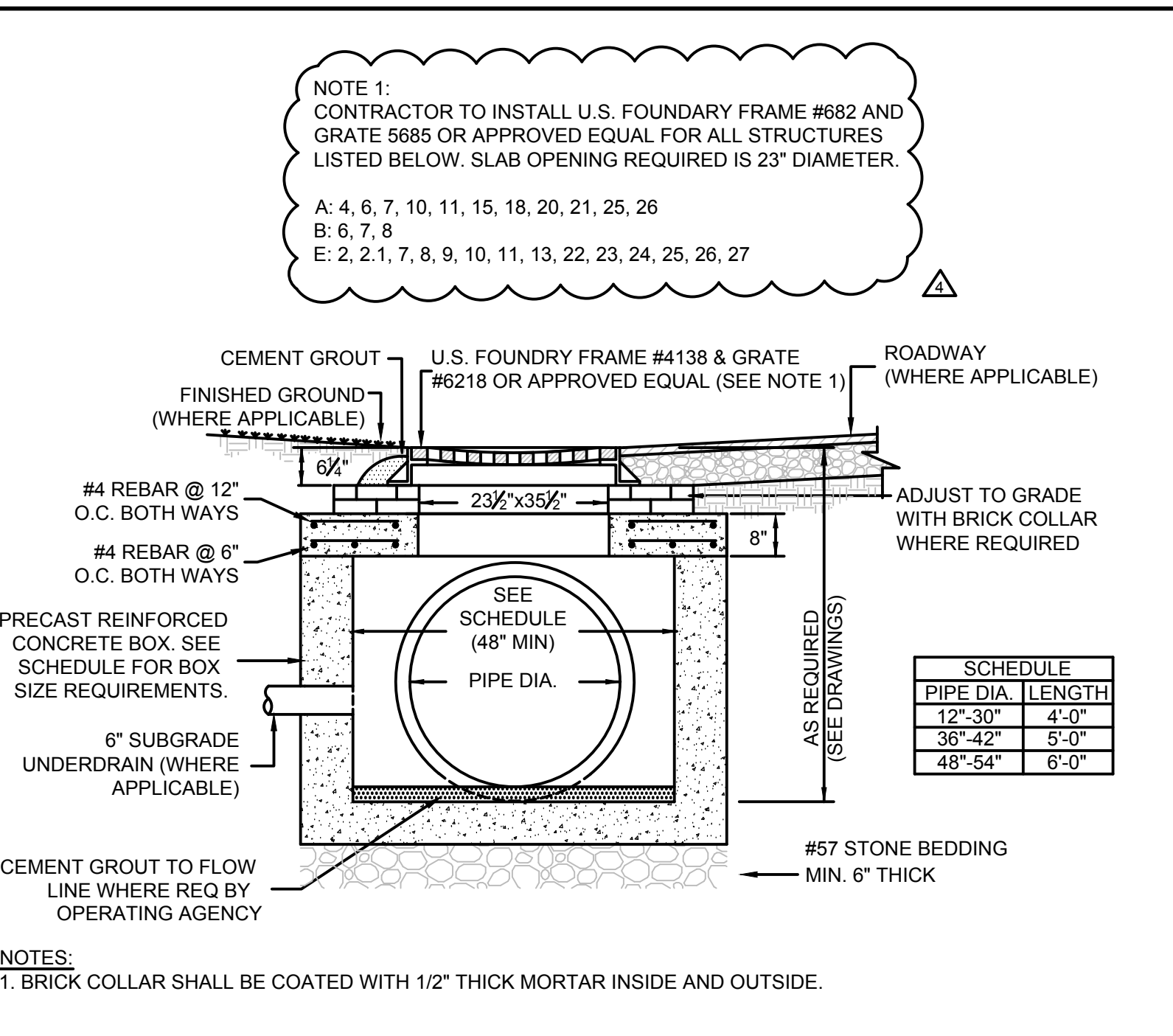
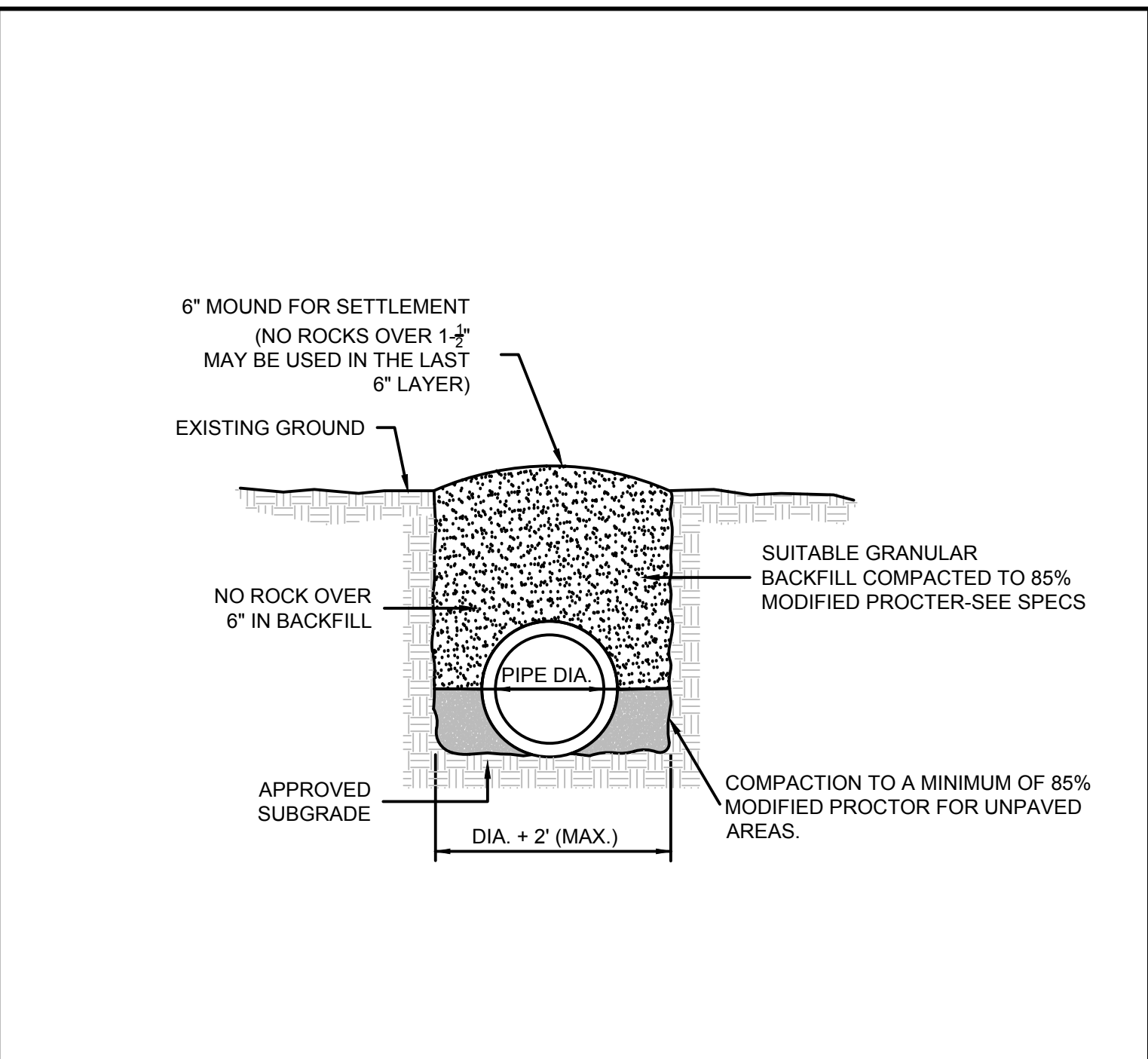
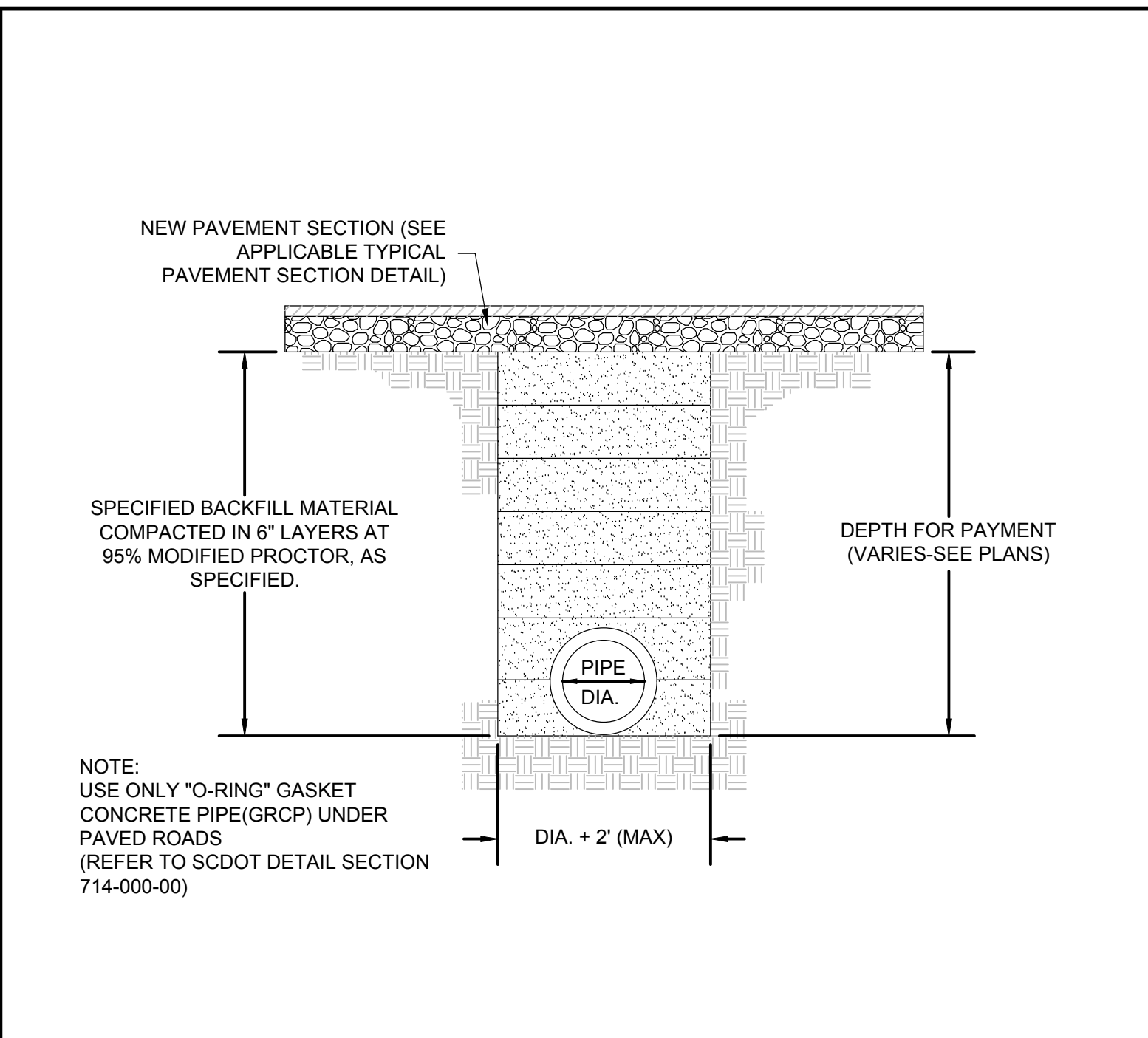
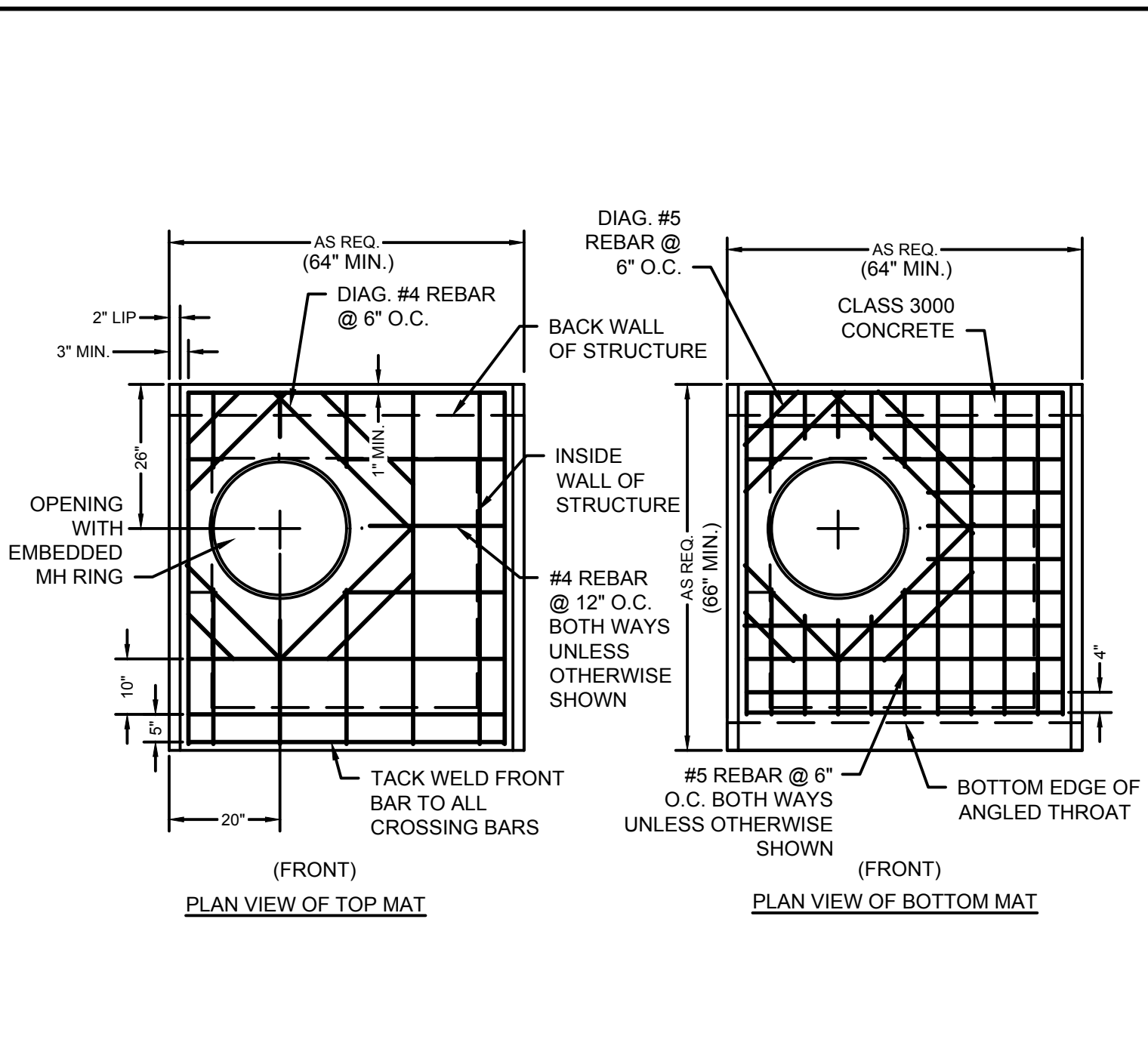
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| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |
| E | 05/11/21 |
| F | 12/22/22 |



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NOTE 1:  
CONTRACTOR TO INSTALL U.S. FOUNDRY FRAME #682 AND GRATE 5685 OR APPROVED EQUAL FOR ALL STRUCTURES LISTED BELOW. SLAB OPENING REQUIRED IS 23" DIAMETER.

A: 4, 6, 7, 10, 11, 15, 18, 20, 21, 25, 26  
B: 6, 7, 8  
E: 2, 2.1, 7, 8, 9, 10, 11, 13, 22, 23, 24, 25, 26, 27

**SEAMON WHITESIDE**  
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**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

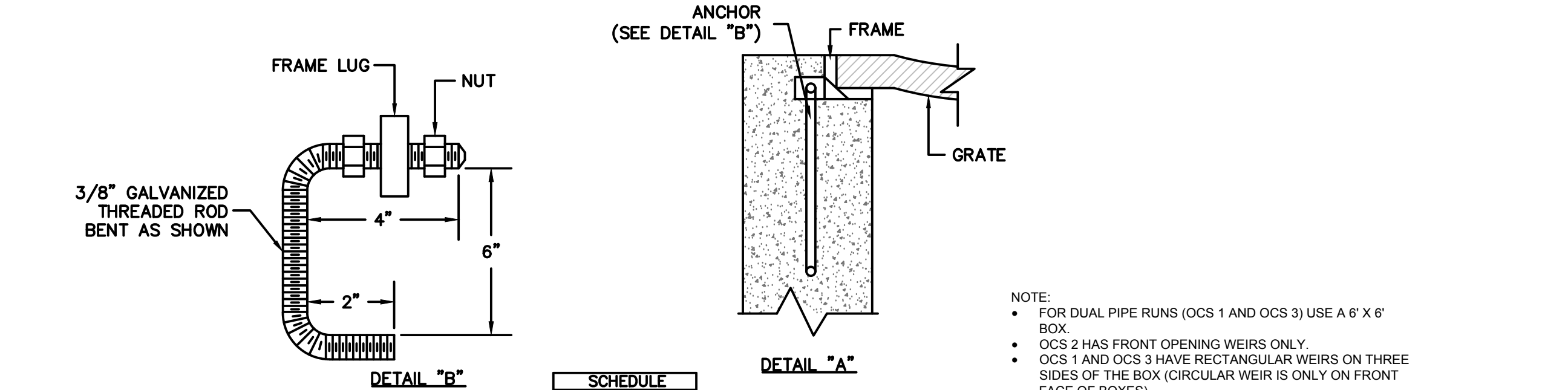
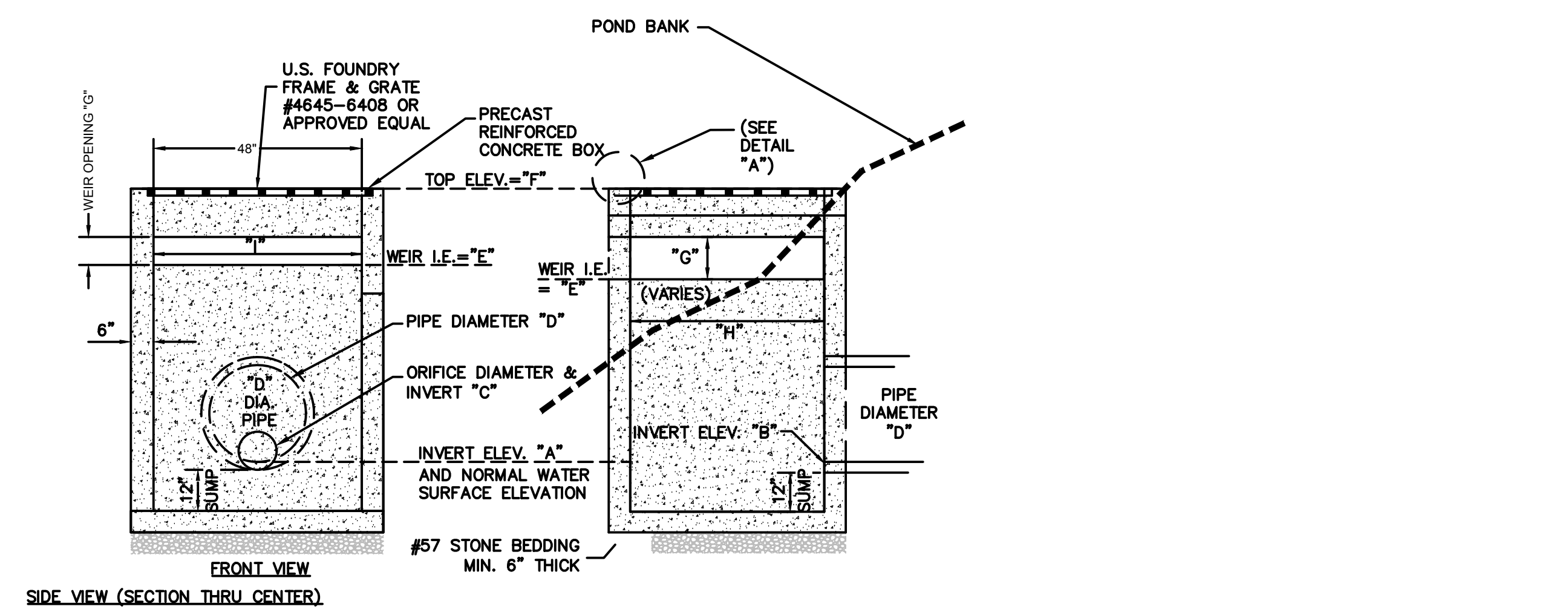
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| B                | 10/29/20 |            |
| C                | 01/22/21 |            |
| 0                | 03/11/21 | 7 08/22/22 |
| 2                | 04/01/21 |            |

GRADING & DRAINAGE DETAILS



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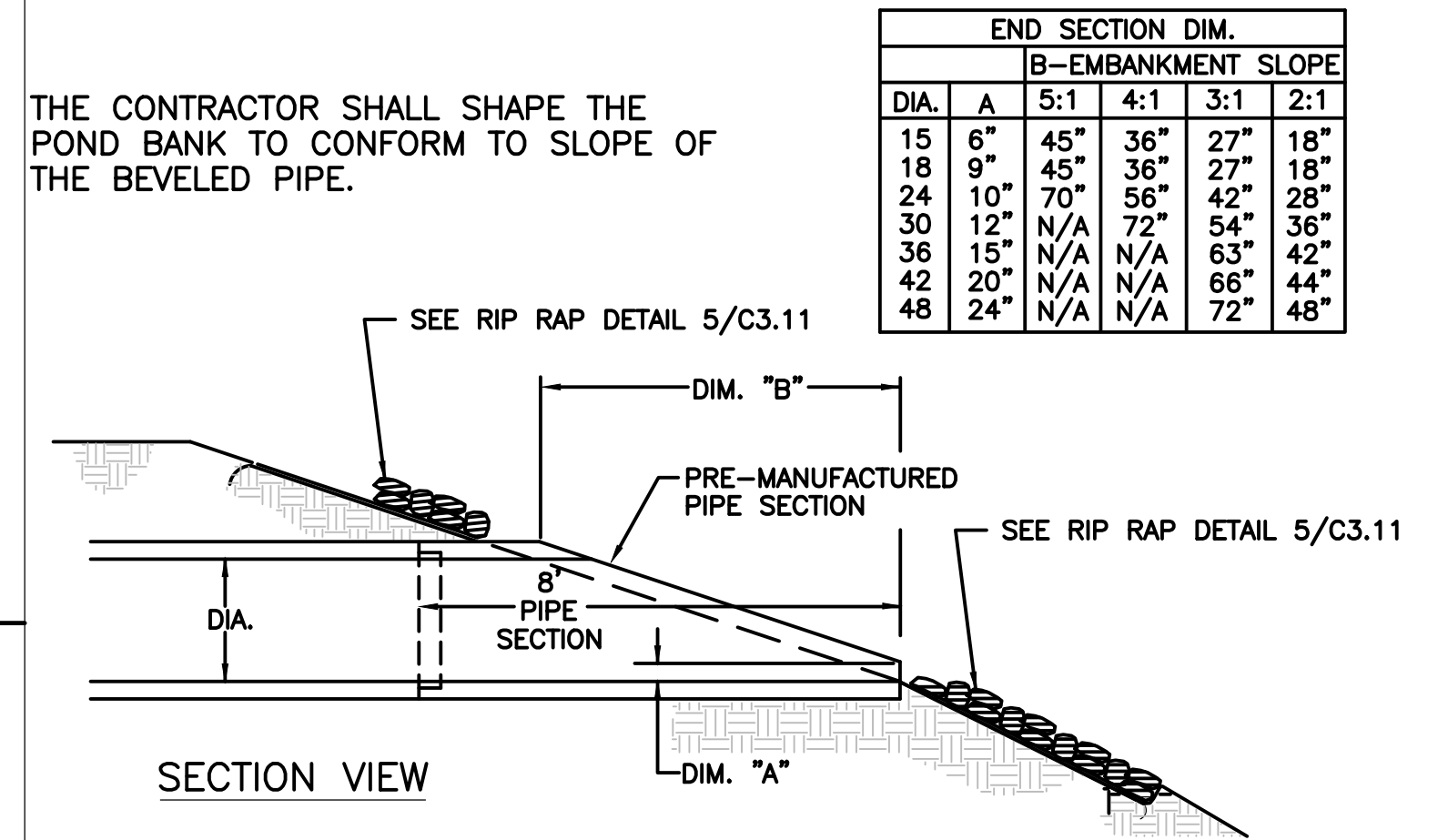


| PIPE DIA. | LENGTH |
|-----------|--------|
| 12"       | 4'-0"  |
| 18"       | 5'-0"  |
| 24"       | 6'-0"  |

| STRUCTURE | POND   | ELEVATIONS |       | FRONT ORIFICE |       | PIPE DIAMETER | WEIR I.E. | MIN. RIM ELEV. | WEIR OPENING |               |     |     |
|-----------|--------|------------|-------|---------------|-------|---------------|-----------|----------------|--------------|---------------|-----|-----|
|           |        | "A"        | "B"   | "C"           | I.E.  |               |           |                | "D"          | "E"           | "G" | "H" |
| OCS 1     | POND 1 | 23.15      | 23.15 | 6"            | 23.15 | 2-24"         | 24.25     | 26.50          | 6"           | 36" (3 SIDES) |     |     |
| OCS 2     | POND 2 | 24.50      | 24.50 | 4"            | 24.50 | 24"           | 25.50     | 27.50          | 6"           | 0"            |     |     |
| OCS 3     | POND 4 | 25.61      | 25.61 | 8"            | 25.61 | 2-24"         | 26.65     | 28.00          | 6"           | 36" (3 SIDES) |     |     |

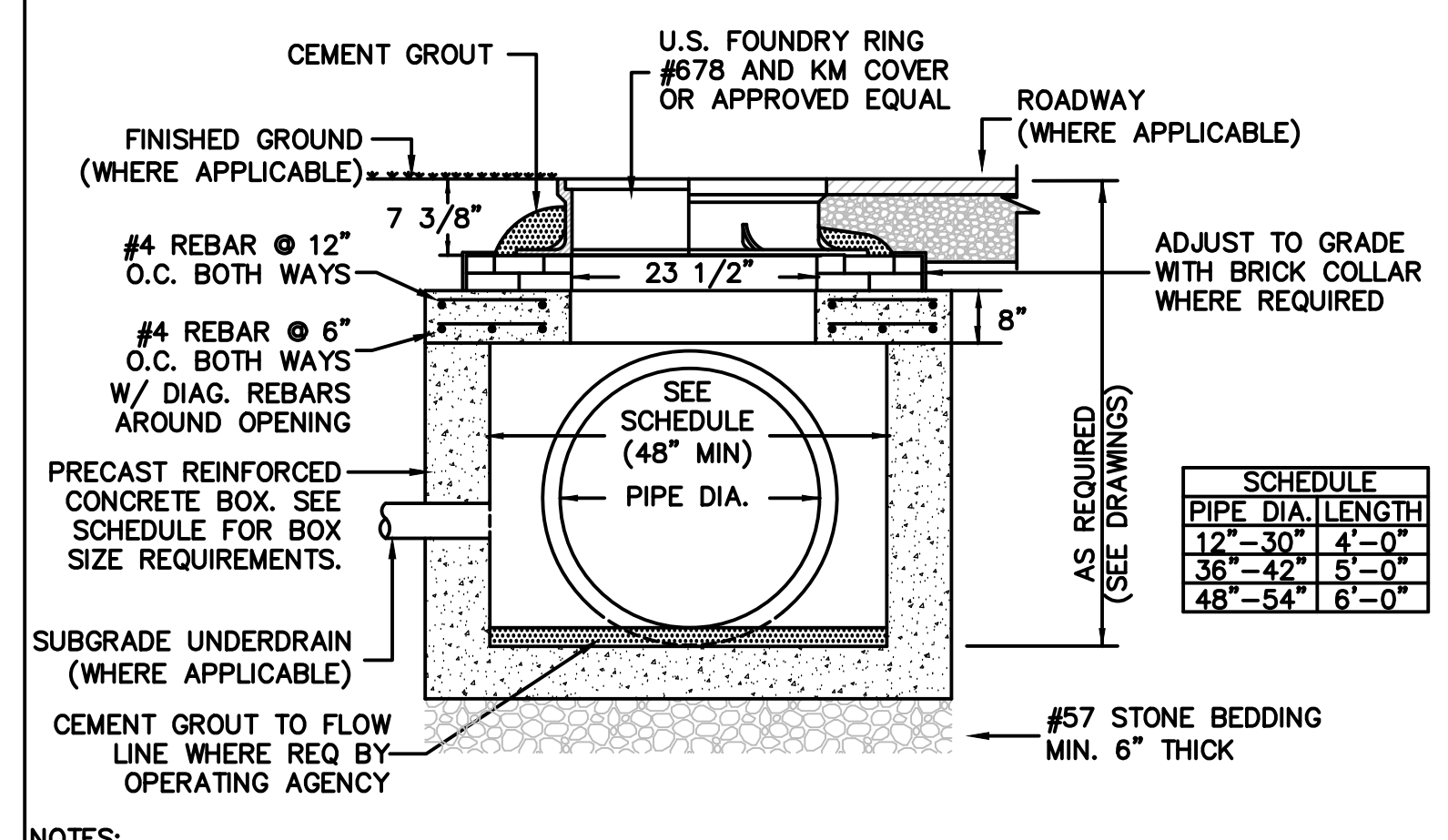
NOTE:  
 • FOR DUAL PIPE RUNS (OCS 1 AND OCS 3) USE A 6' X 6' BOX  
 • OCS 2 HAS FRONT OPENING WEIRS ONLY  
 • OCS 1 AND OCS 3 HAVE RECTANGULAR WEIRS ON THREE SIDES OF THE BOX (CIRCULAR WEIR IS ONLY ON FRONT FACE OF BOXES)

**1 OUTLET CONTROL STRUCTURES**  
(NOT TO SCALE)



| DIA. | B-EMBANKMENT SLOPE |     |     |     |
|------|--------------------|-----|-----|-----|
|      | 5:1                | 4:1 | 3:1 | 2:1 |
| 18"  | 45"                | 36" | 27" | 18" |
| 24"  | 70"                | 56" | 42" | 28" |
| 30"  | N/A                | 72" | 54" | 36" |
| 36"  | N/A                | N/A | 63" | 42" |
| 42"  | N/A                | N/A | 66" | 44" |
| 48"  | N/A                | N/A | 72" | 48" |

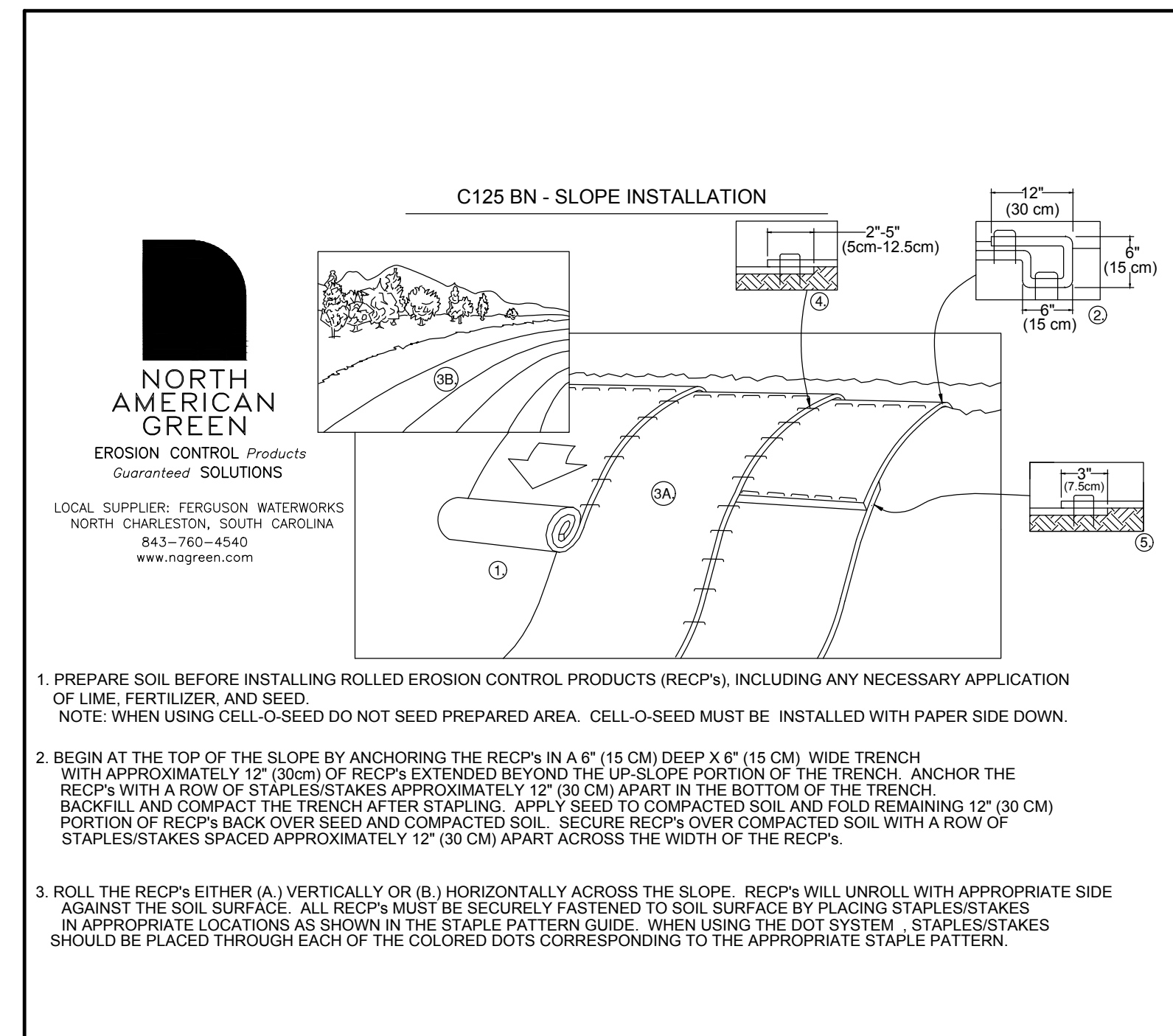
**2 PRECAST BEVELED PIPE END**  
(NOT TO SCALE)



| PIPE DIA. | LENGTH |
|-----------|--------|
| 12"       | 4'-0"  |
| 18"       | 5'-0"  |
| 24"       | 6'-0"  |

NOTES:  
 1. BRICK COLLAR SHALL BE COATED WITH 1/2" THICK MORTAR INSIDE AND OUTSIDE.

**3 JUNCTION BOX**  
(NOT TO SCALE)



**4 EROSION CONTROL BLANKET**  
(NOT TO SCALE)

**1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.**  
 NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

**2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.**

**3. ROLL THE RECP'S EITHER (A) VERTICALLY OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.**

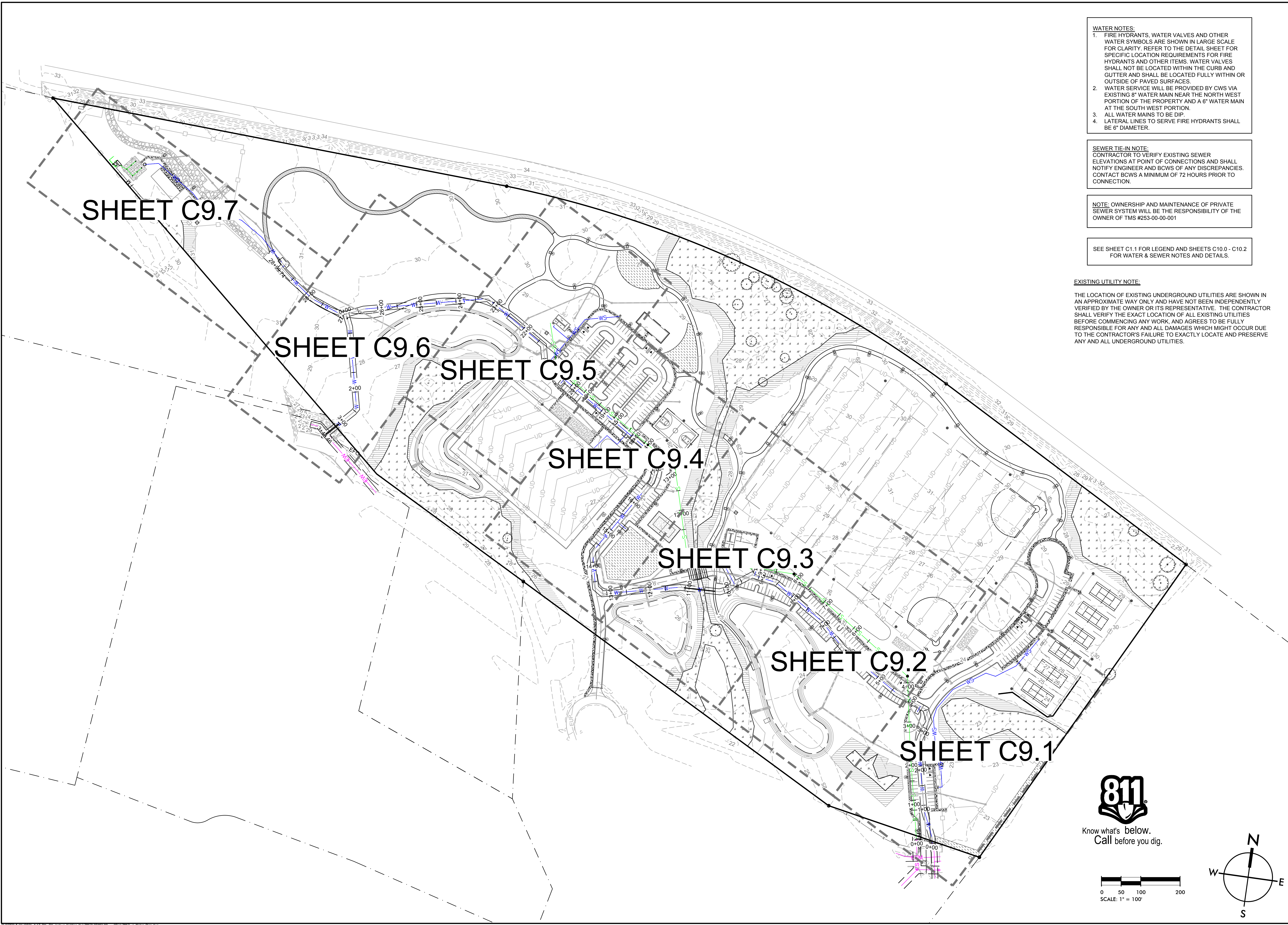
SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |

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**WATER NOTES:**  
1. FIRE HYDRANTS, WATER VALVES AND OTHER WATER SYMBOLS ARE SHOWN IN LARGE SCALE FOR CLARITY. REFER TO THE DETAIL SHEET FOR SPECIFIC LOCATION REQUIREMENTS FOR FIRE HYDRANTS AND OTHER ITEMS. WATER VALVES SHALL NOT BE LOCATED WITHIN THE CURB AND GUTTER AND SHALL BE LOCATED FULLY WITHIN OR OUTSIDE OF PAVED SURFACES.  
2. WATER SERVICE WILL BE PROVIDED BY CWS VIA EXISTING 8" WATER MAIN NEAR THE NORTH WEST PORTION OF THE PROPERTY AND A 6" WATER MAIN AT THE SOUTH WEST PORTION.  
3. ALL WATER MAINS TO BE DIP.  
4. LATERAL LINES TO SERVE FIRE HYDRANTS SHALL BE 6" DIAMETER.

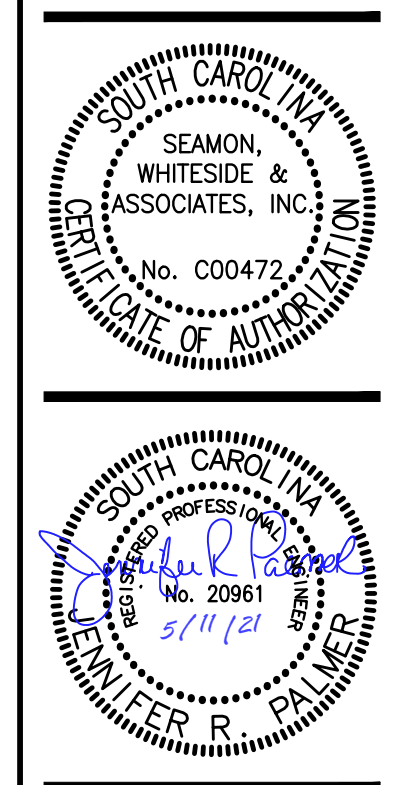
**SEWER TIE-IN NOTE:**  
CONTRACTOR TO VERIFY EXISTING SEWER CONNECTIONS AT POINT OF CONNECTIONS AND SHALL NOTIFY ENGINEER AND BCWS OF ANY DISCREPANCIES. CONTACT BCWS A MINIMUM OF 72 HOURS PRIOR TO CONNECTION.

**NOTE:** OWNERSHIP AND MAINTENANCE OF PRIVATE SEWER SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF TMS #253-00-001

SEE SHEET C.1.1 FOR LEGEND AND SHEETS C10.0 - C10.2 FOR WATER & SEWER NOTES AND DETAILS.

**EXISTING UTILITY NOTE:**  
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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**HANAHAN RECREATION  
COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

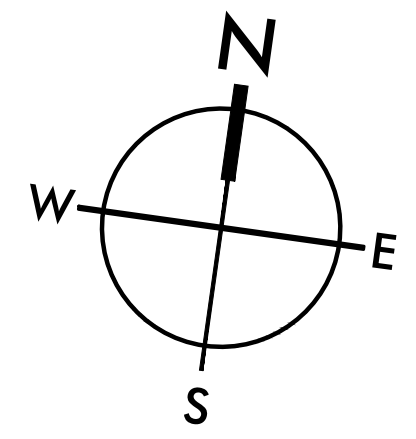
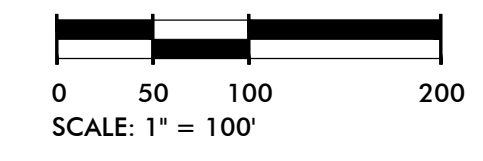
SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| 0                | 03/11/21 |
| 1                | 03/26/21 |

OVERALL  
WATER &  
SEWER PLAN

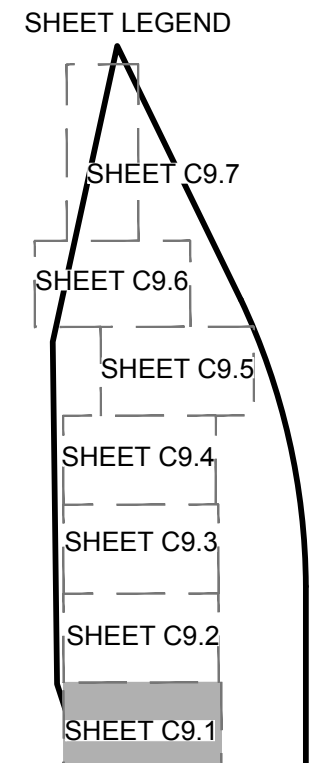
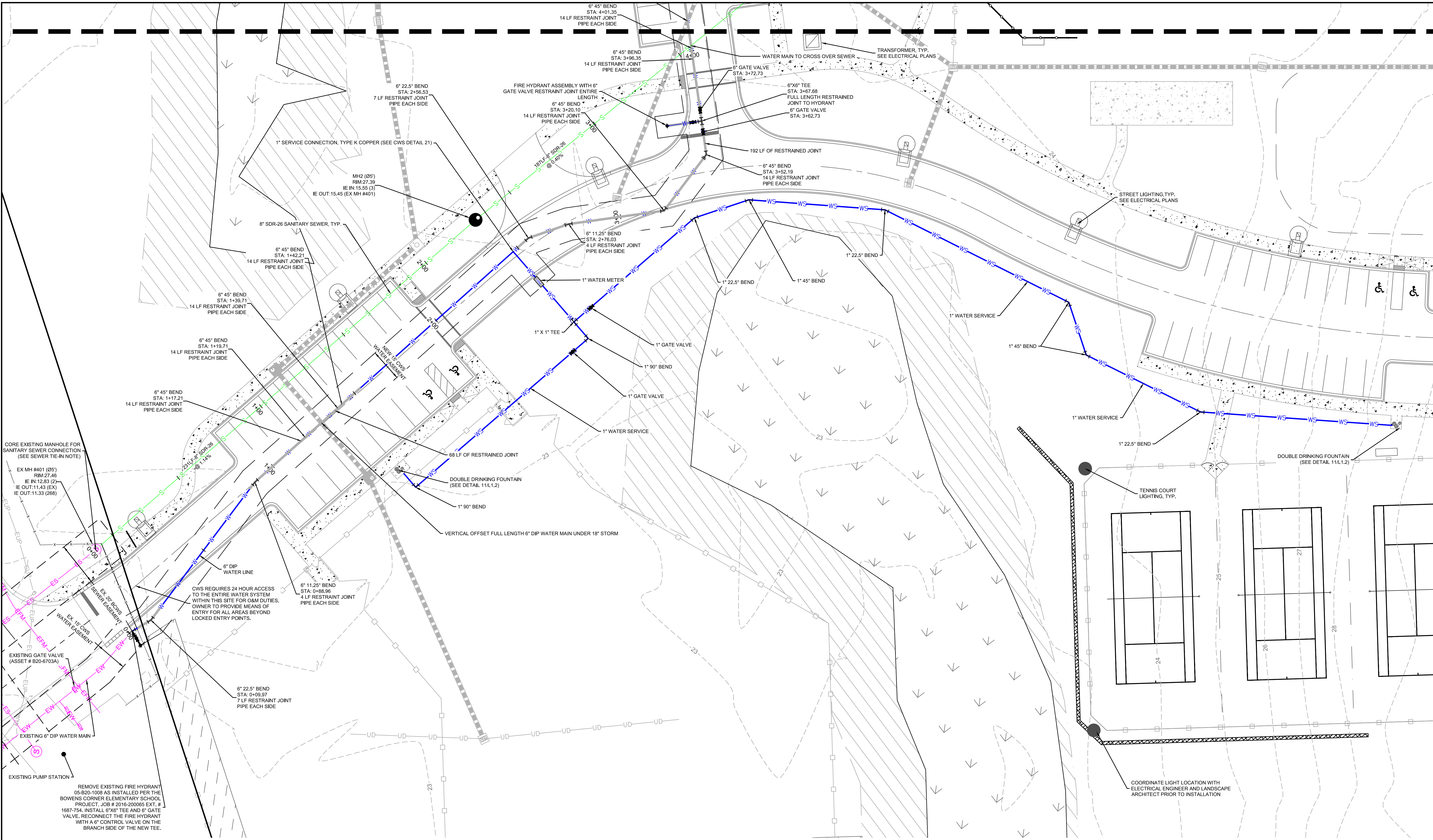


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**WATER NOTES:**

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- WATER SERVICE WILL BE PROVIDED BY CWS VIA EXISTING 8" WATER MAIN NEAR THE NORTH WEST PORTION OF THE PROPERTY AND A 6" WATER MAIN AT THE SOUTH WEST PORTION.
- ALL WATER LINES TO BE DIP.
- 6" LATERAL LINES TO FIRE HYDRANTS
- CWS REQUIRES 24 HOUR ACCESS TO THE ENTIRE WATER SYSTEM WITHIN THE SITE FOR O&M DUTIES. OWNER TO PROVIDE A MEANS OF ENTRY FOR ALL AREAS BEYOND LOCKED ENTRY POINTS.

**SEWER TIE-IN NOTE:**

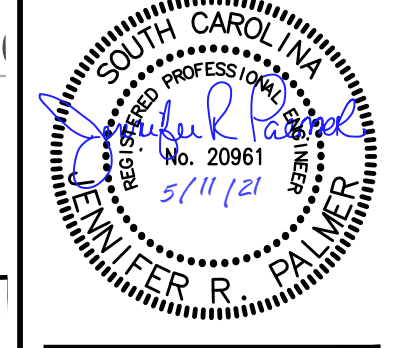
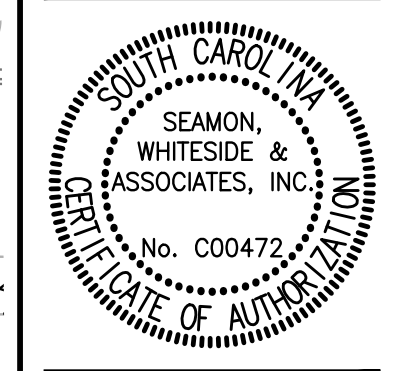
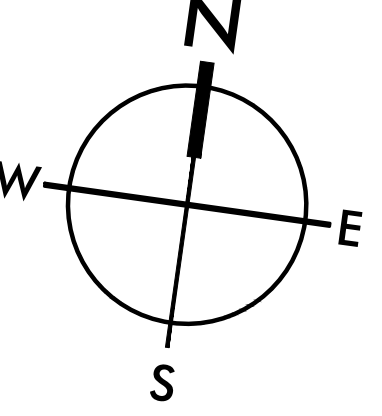
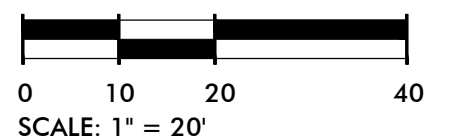
- CONTRACTOR TO VERIFY EXISTING MH ELEVATIONS AND NOTIFY ENGINEER AND BCWS OF ANY DISCREPANCIES. CONTACT BCWS A MINIMUM OF 72 HOURS PRIOR FOR CONNECTION.
- CONNECTION TO EXISTING SEWER SYSTEM SHALL BE MADE IN THE PRESENCE OF BCWS INSPECTOR WITH AT LEAST 72 HOURS ADVANCED NOTICE

**NOTE: OWNERSHIP AND MAINTENANCE OF PRIVATE SEWER SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF TMS #259-00-00-189**

SEE SHEET C1.1 FOR LEGEND AND SHEETS C10.0 - C10.3 FOR WATER & SEWER NOTES AND DETAILS.

**EXISTING UTILITY NOTE:**

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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

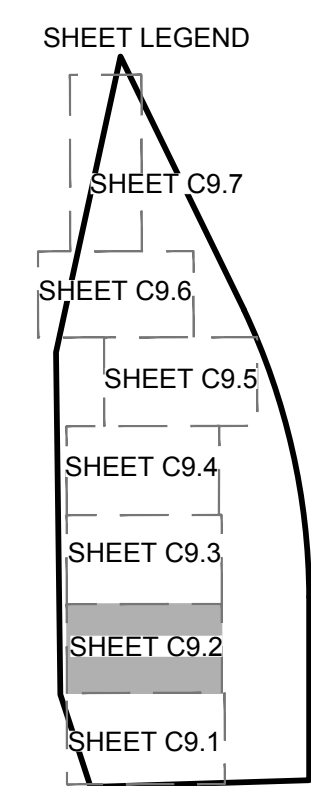
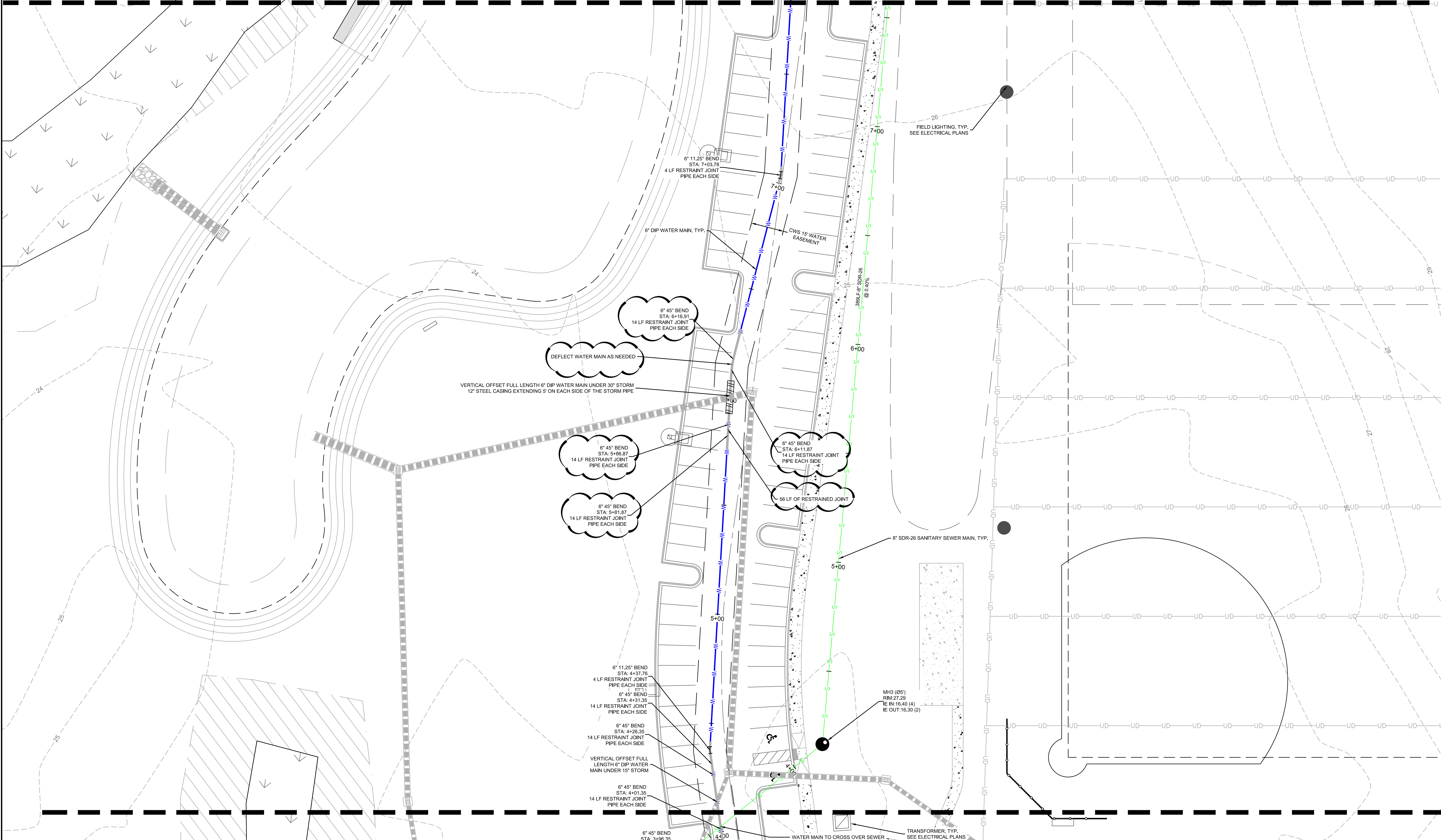
SW+ PROJECT: 7867  
 DATE: 06/12/20  
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| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| 0                | 03/11/21 |
| 1                | 03/26/21 |

WATER & SEWER PLAN



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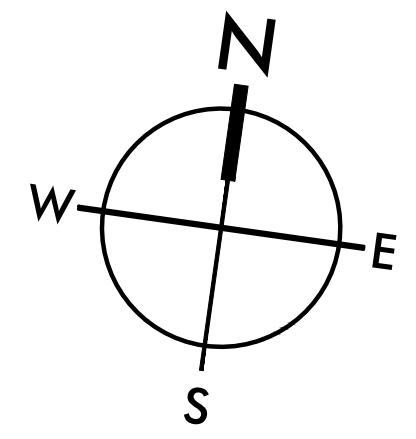
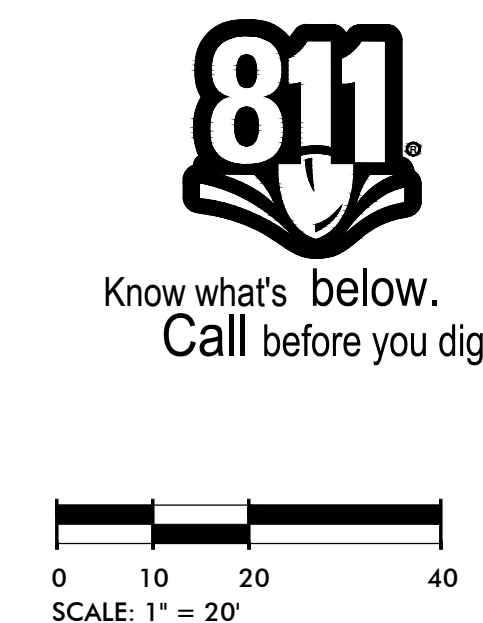
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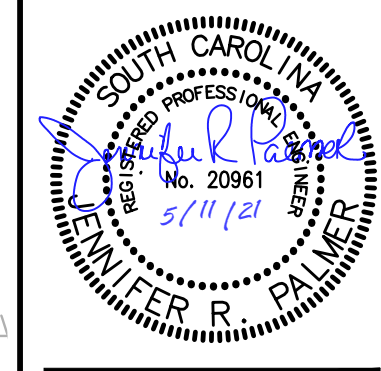
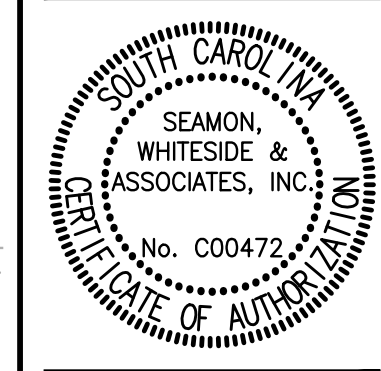
SEE SHEET C1.1 FOR LEGEND AND SHEETS C10.0 - C10.3 FOR WATER & SEWER NOTES AND DETAILS.

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**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
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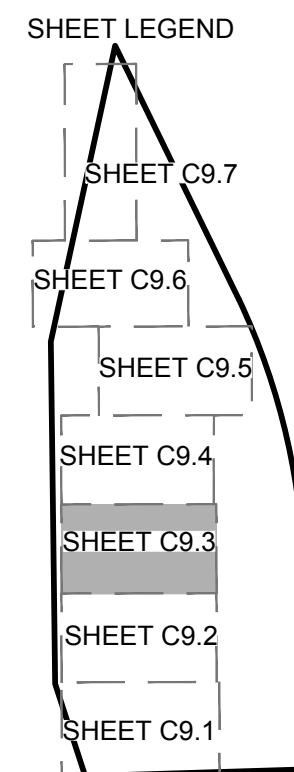
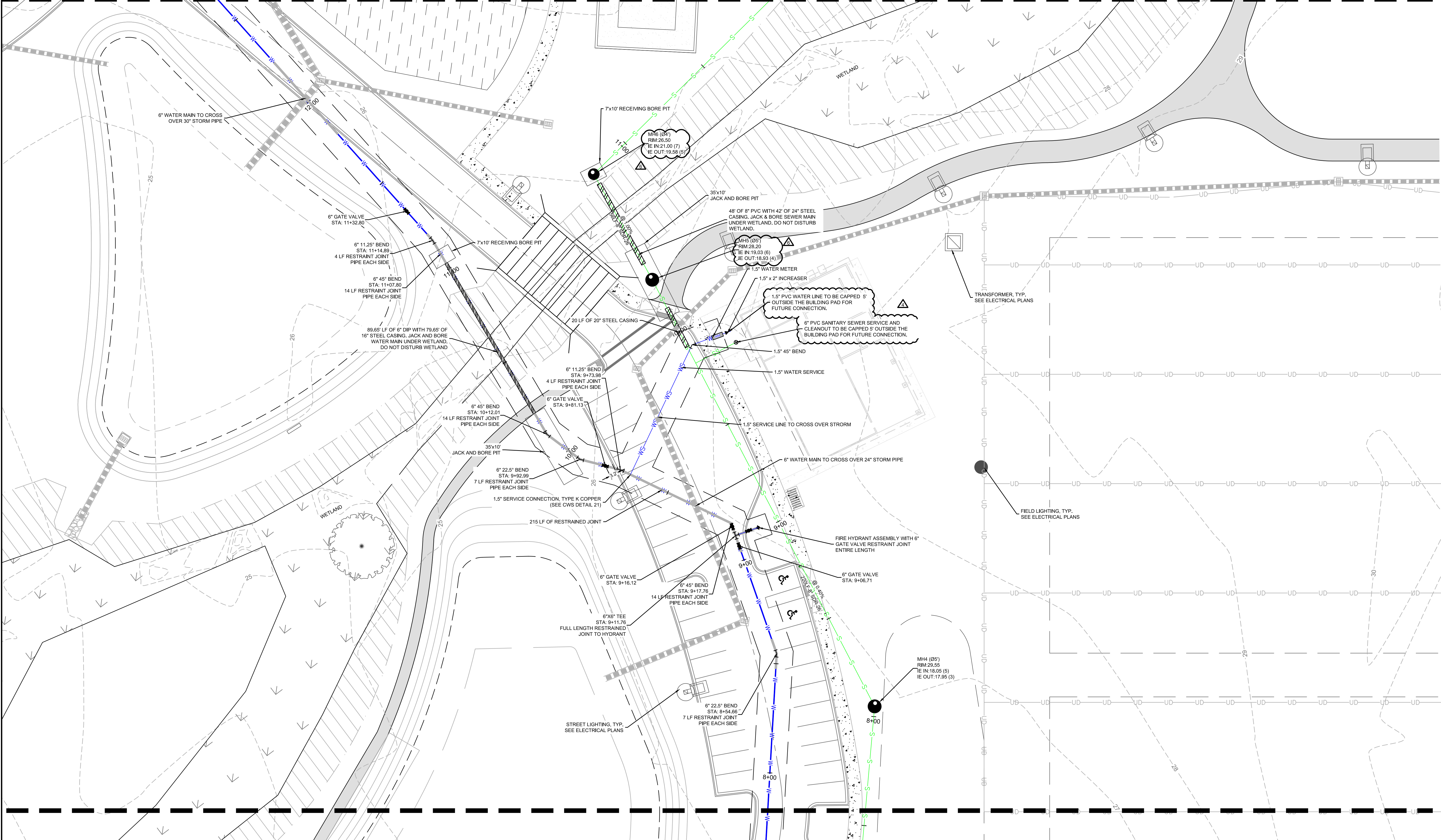
SW+ PROJECT: 7867  
DATE: 06/12/20  
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| REVISION HISTORY |          |
|------------------|----------|
| B                | 10/29/20 |
| C                | 01/22/21 |
| O                | 03/11/21 |
| 1                | 03/26/21 |

**WATER & SEWER PLAN**



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**NOTE: OWNERSHIP AND MAINTENANCE OF PRIVATE SEWER SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF TMS #259-00-00-189**

**HDD BORE NOTE:**

- CONTRACTOR TO PROVIDE HDD BORE PROFILE TO CWS FOR APPROVAL PRIOR TO INSTALLATION.

SEE SHEET C1.1 FOR LEGEND AND SHEETS C10.0 - C10.3 FOR WATER & SEWER NOTES AND DETAILS.

**EXISTING UTILITY NOTE:**

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**811**  
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SCALE: 1" = 20'

**SW**  
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 SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. C00477  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF SOUTH CAROLINA

**SEAL OF SOUTH CAROLINA**  
 J. R. PALMER  
 No. 20961  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF SOUTH CAROLINA

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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 CHECKED BY: JRP

**REVISION HISTORY**

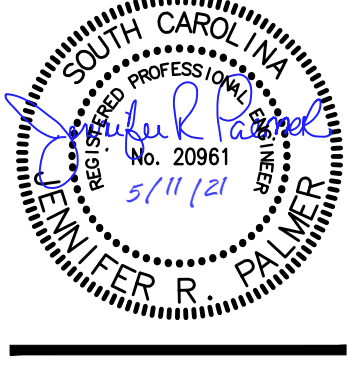
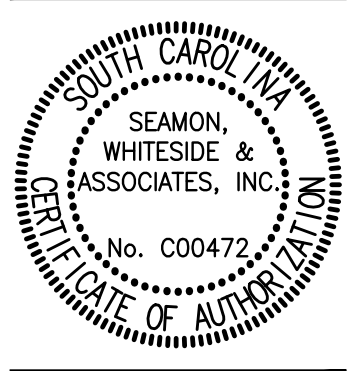
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| 1 | 03/26/21 |   |          |

**WATER & SEWER PLAN**

**C9.3**



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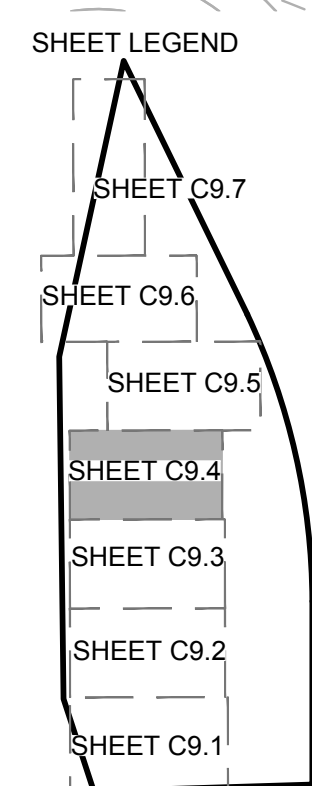
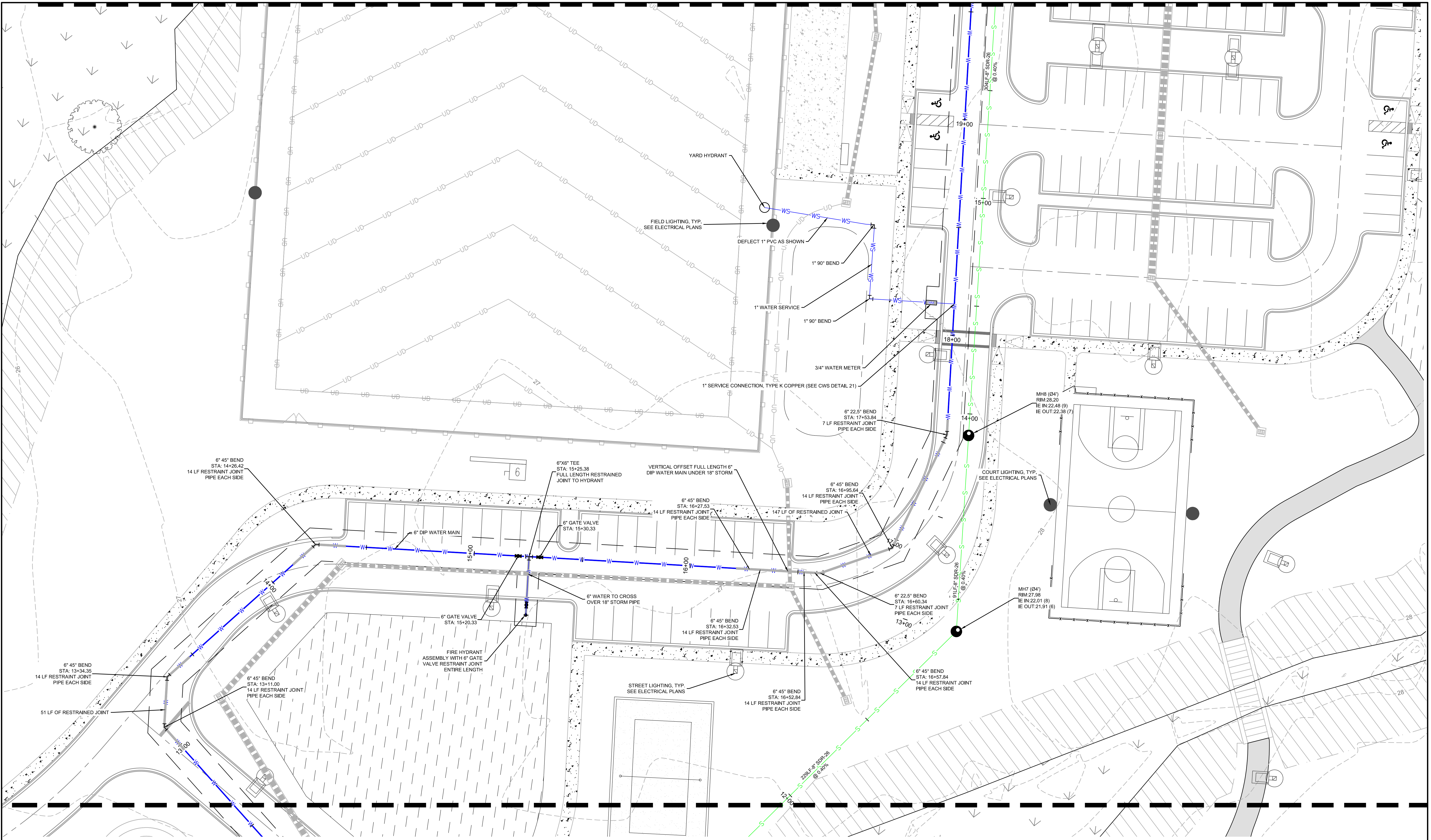


HANAHAN RECREATION COMPLEX  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

| REVISION HISTORY |          |
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| C                | 01/22/21 |
| O                | 03/11/21 |
| 1                | 03/26/21 |

WATER & SEWER PLAN



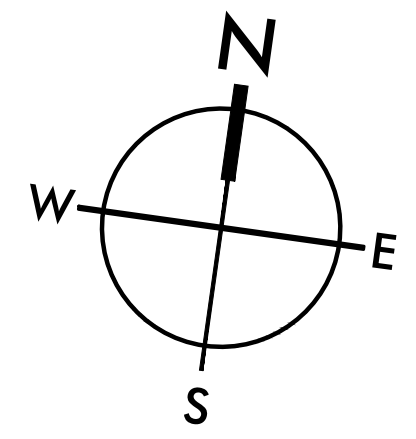
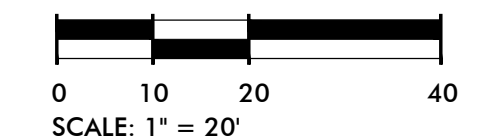
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3. ALL WATER LINES TO BE DIP.  
4. 6" LATERAL LINES TO FIRE HYDRANTS

**SEWER TIE-IN NOTE:**  
1. CONTRACTOR TO VERIFY EXISTING MH ELEVATIONS AND NOTIFY ENGINEER AND BCWS OF ANY DISCREPANCIES. CONTACT BCWS A MINIMUM OF 72 HOURS PRIOR FOR CONNECTION.

**NOTE: OWNERSHIP AND MAINTENANCE OF PRIVATE SEWER SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF TMS #259-00-00-189**

SEE SHEET C.1 FOR LEGEND AND SHEETS C10.0 - C10.3 FOR WATER & SEWER NOTES AND DETAILS.

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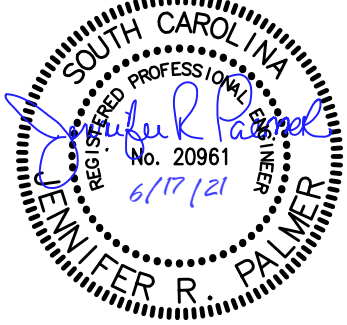
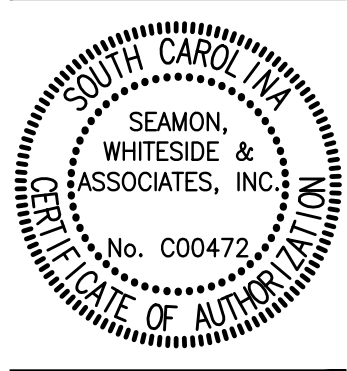
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# HANAHAN RECREATION COMPLEX

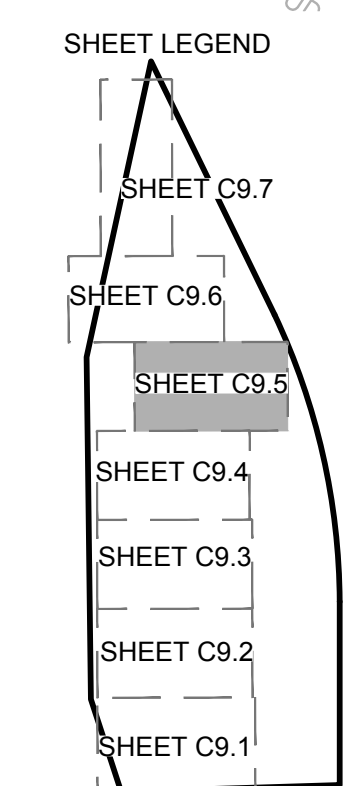
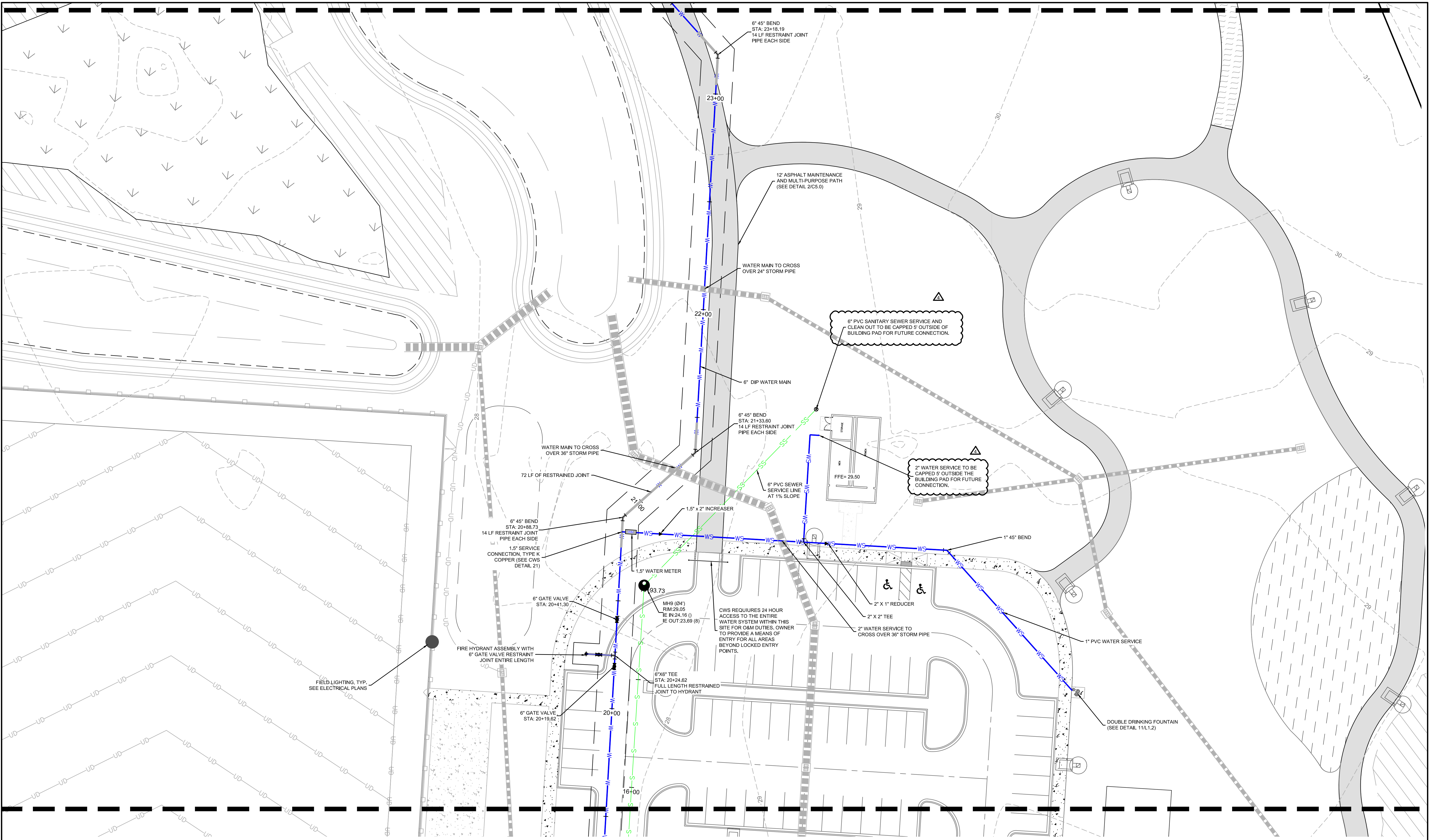
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

| REVISION HISTORY |                     |
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| B                | 10/29/20 4 06/18/21 |
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| O                | 03/11/21            |
| 1                | 03/26/21            |

WATER & SEWER PLAN

C9.5



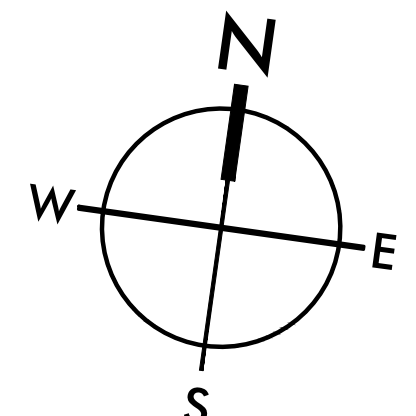
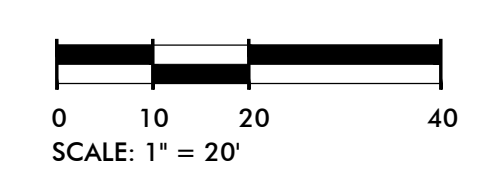
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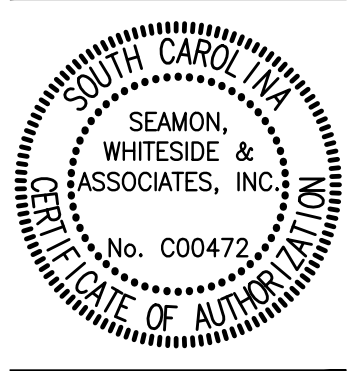




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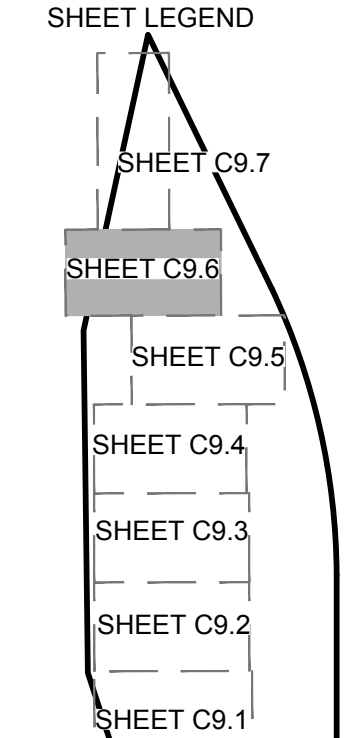
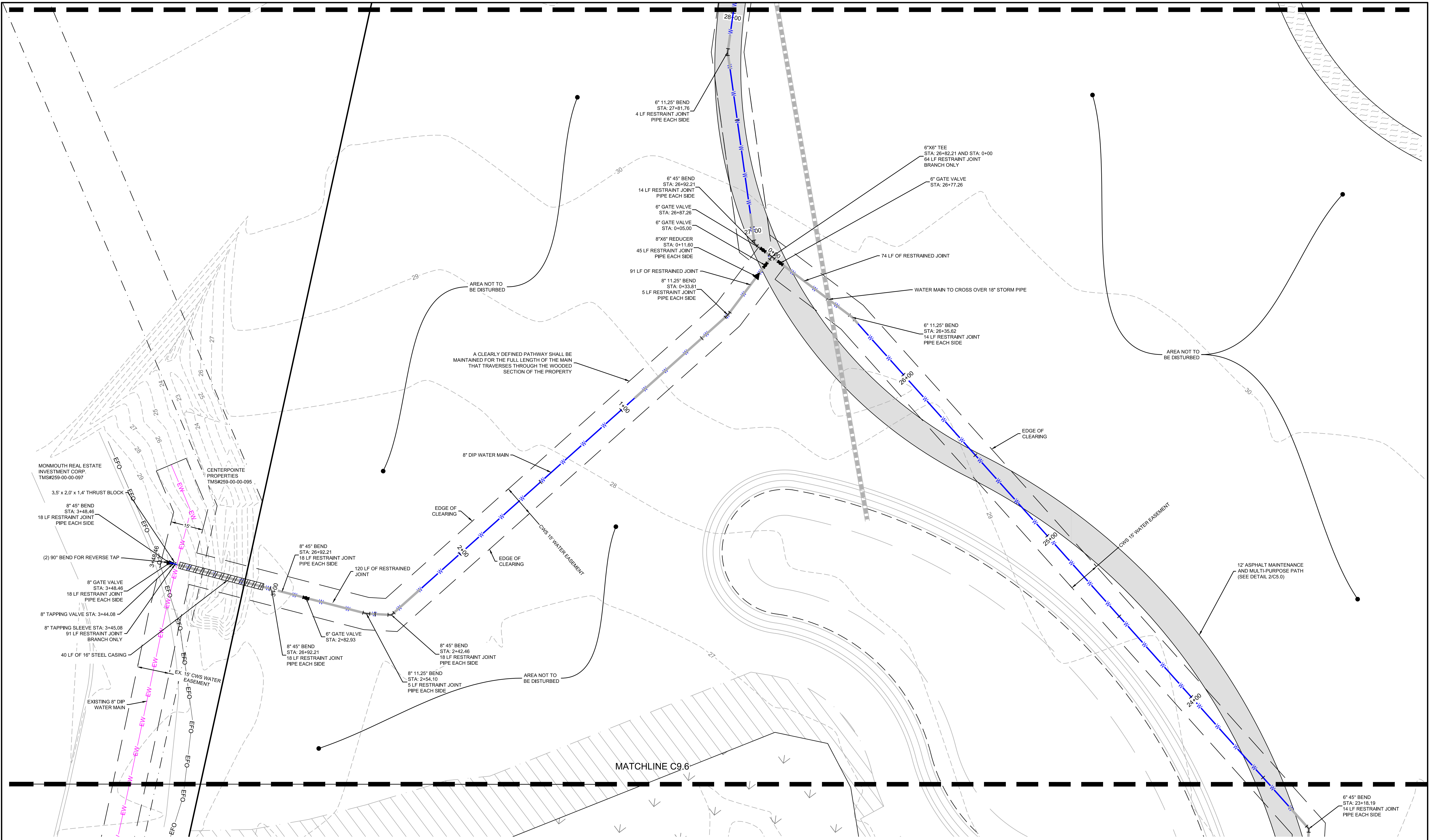


**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

| REVISION HISTORY |          |
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WATER & SEWER PLAN



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**SEWER TIE-IN NOTE:**

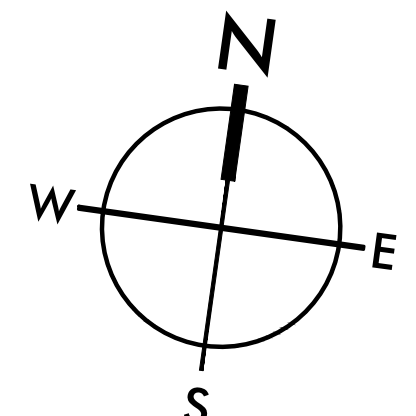
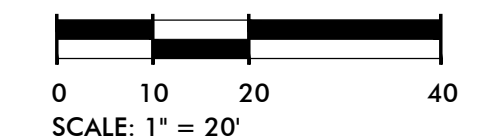
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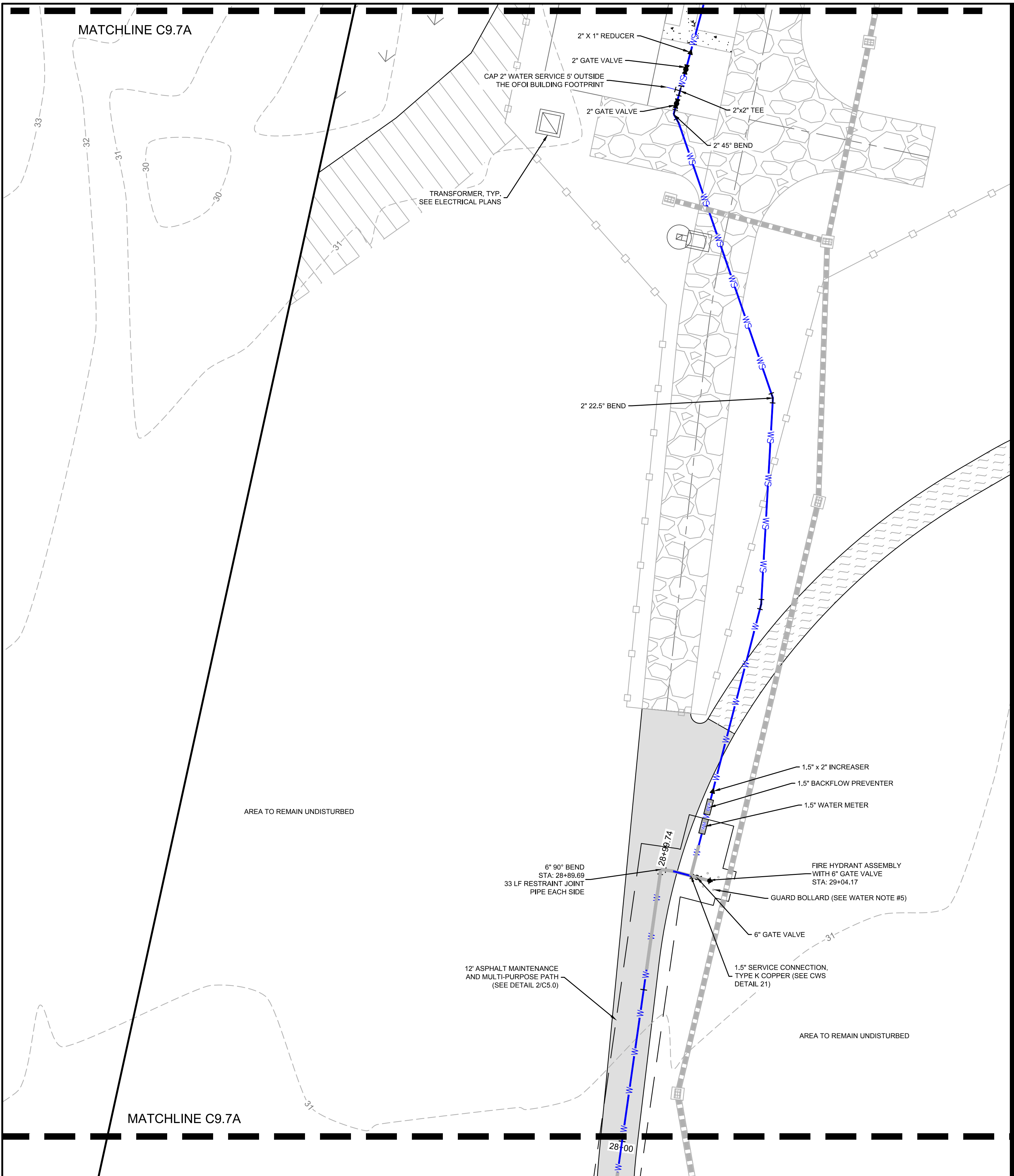


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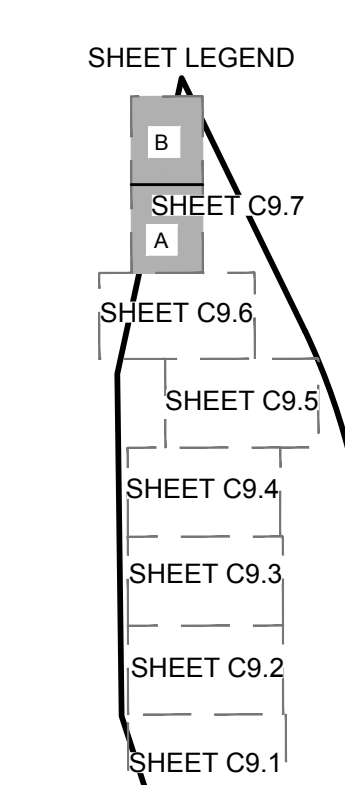


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MATCHLINE C9.7A



MATCHLINE C9.7A



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  - ALL WATER LINES TO BE DIP.
  - 8" LATERAL LINES TO FIRE HYDRANTS
  - FOUR BOLLARDS SHALL BE INSTALLED AROUND ANY FIRE HYDRANT THAT WILL BE VULNERABLE TO BEING STRUCK BY A VEHICLE. BOLLARDS SHALL BE:
    - 6" DIAMETER STEEL/IRON PIPE
    - 7' LENGTH, 3' BURIED IN CONCRETE AND 4' EXPOSED
    - PAINT CAUTION YELLOW
    - DO NOT LOCATE BOLLARDS IN FRONT OF HYDRANT NOZZLES
    - BOLLARDS SHALL BE LOCATED 3' FROM CENTER OF HYDRANT

**SEWER TIE-IN NOTE:**

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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
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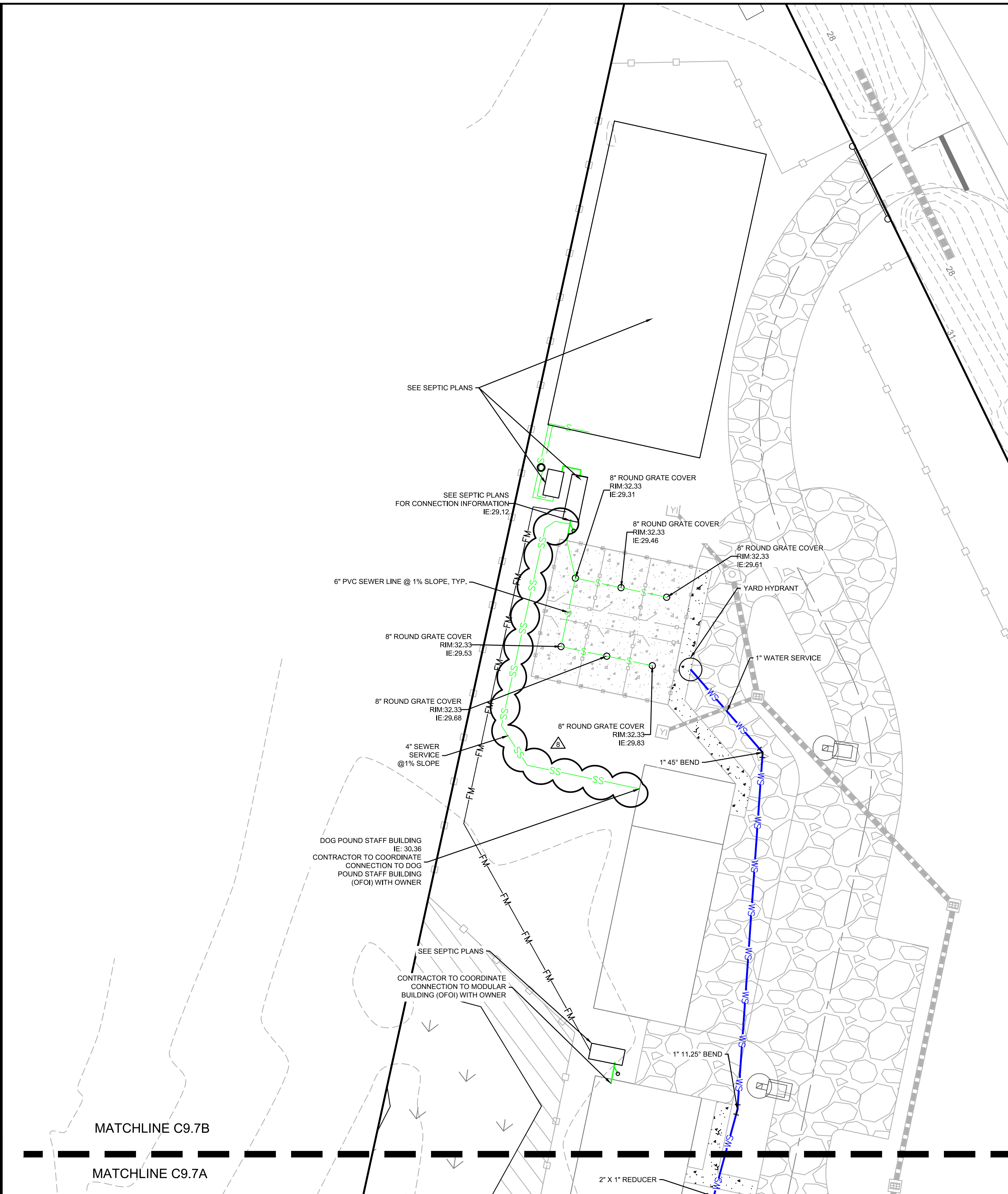
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WATER & SEWER PLAN

C9.7

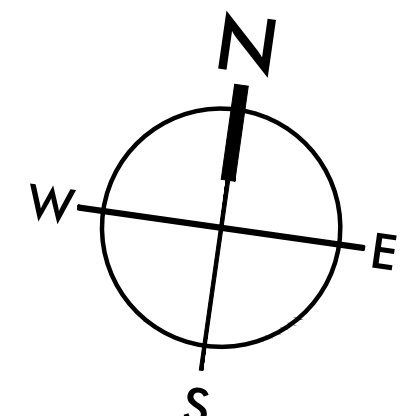
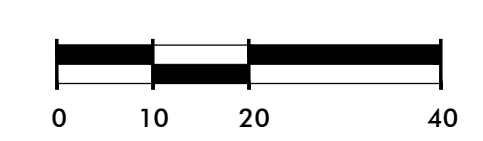
MATCHLINE C9.7B

MATCHLINE C9.7A



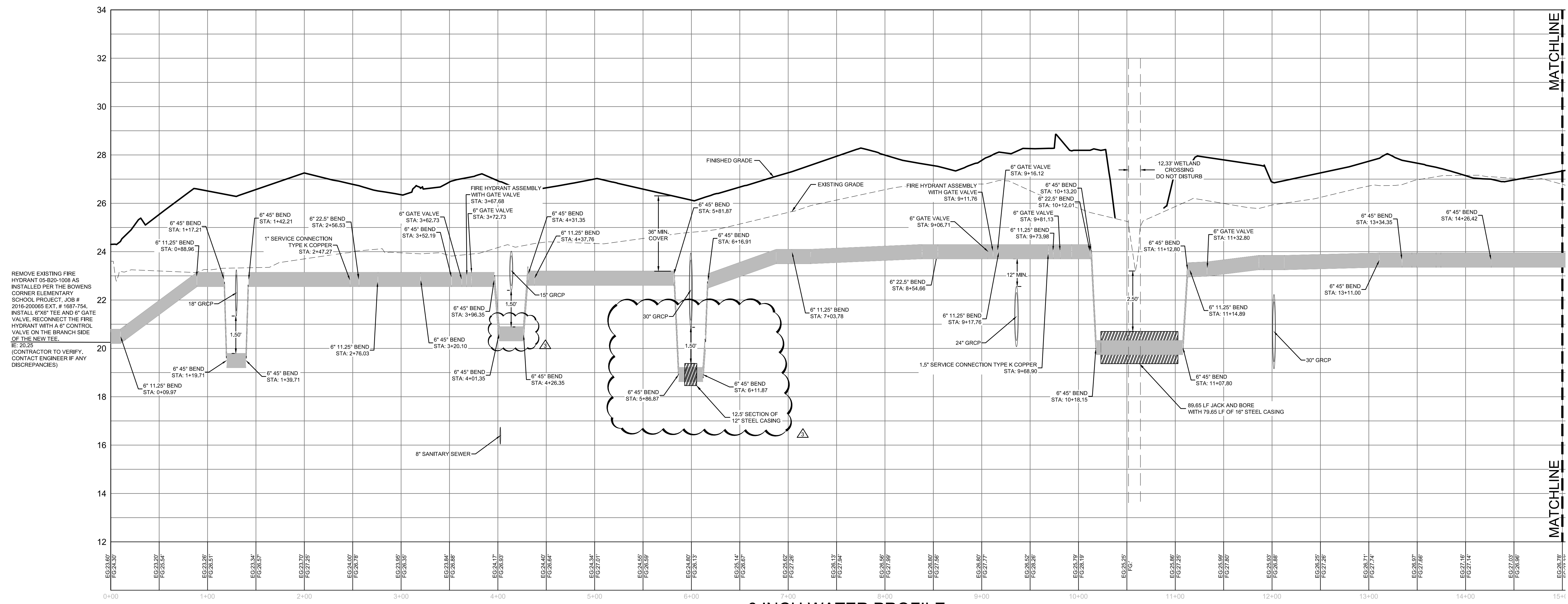
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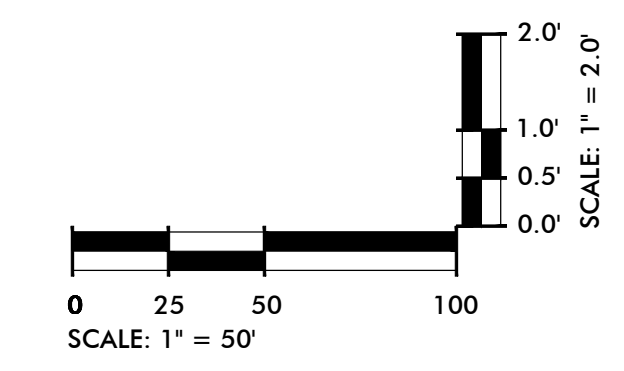
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REMOVE EXISTING FIRE HYDRANT 05-820-1008 AS INSTALLED PER THE BOWENS CORNER ELEMENTARY SCHOOL PROJECT, JOB # 2016-200065 EXT. # 1687-754. INSTALL 6"X6" TEE AND 6" GATE VALVE. RECONNECT THE FIRE HYDRANT WITH A 6" CONTROL VALVE ON THE BRANCH SIDE OF THE NEW TEE.  
 SEE 2025 (CONTRACTOR TO VERIFY, CONTACT ENGINEER IF ANY DISCREPANCIES)

6 INCH WATER PROFILE

**NOTE:**  
 ALL 6" AND 8" WATER MAIN SHALL BE D.I.P



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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

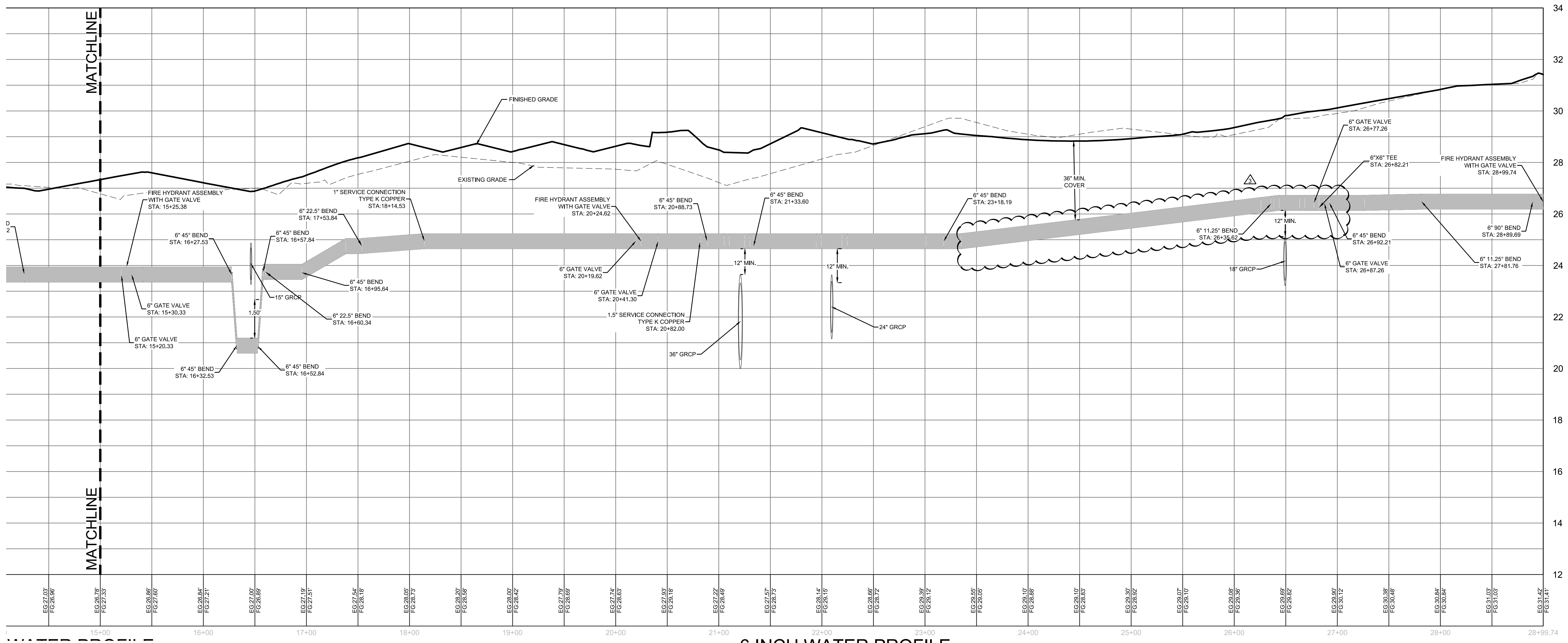
SW+ PROJECT: 7867  
 DATE: 06/12/20  
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| REVISION HISTORY |          |
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| 3                | 05/11/21 |

WATER PROFILES

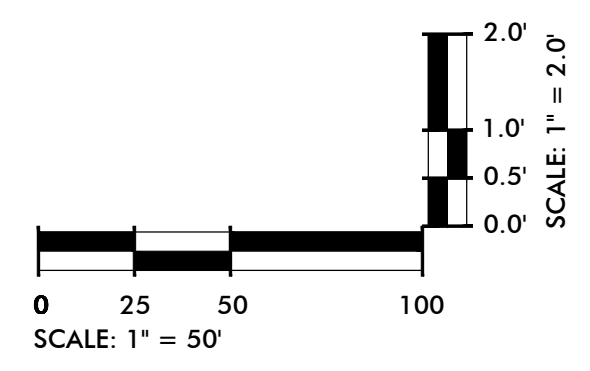


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6 INCH WATER PROFILE

**NOTE:**  
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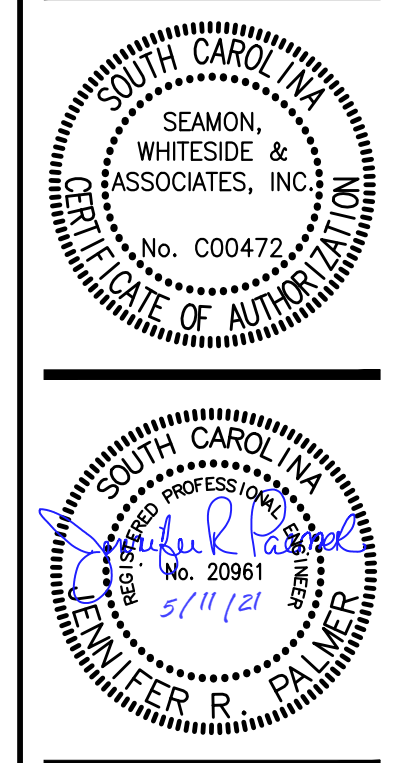


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**HANAHAN RECREATION  
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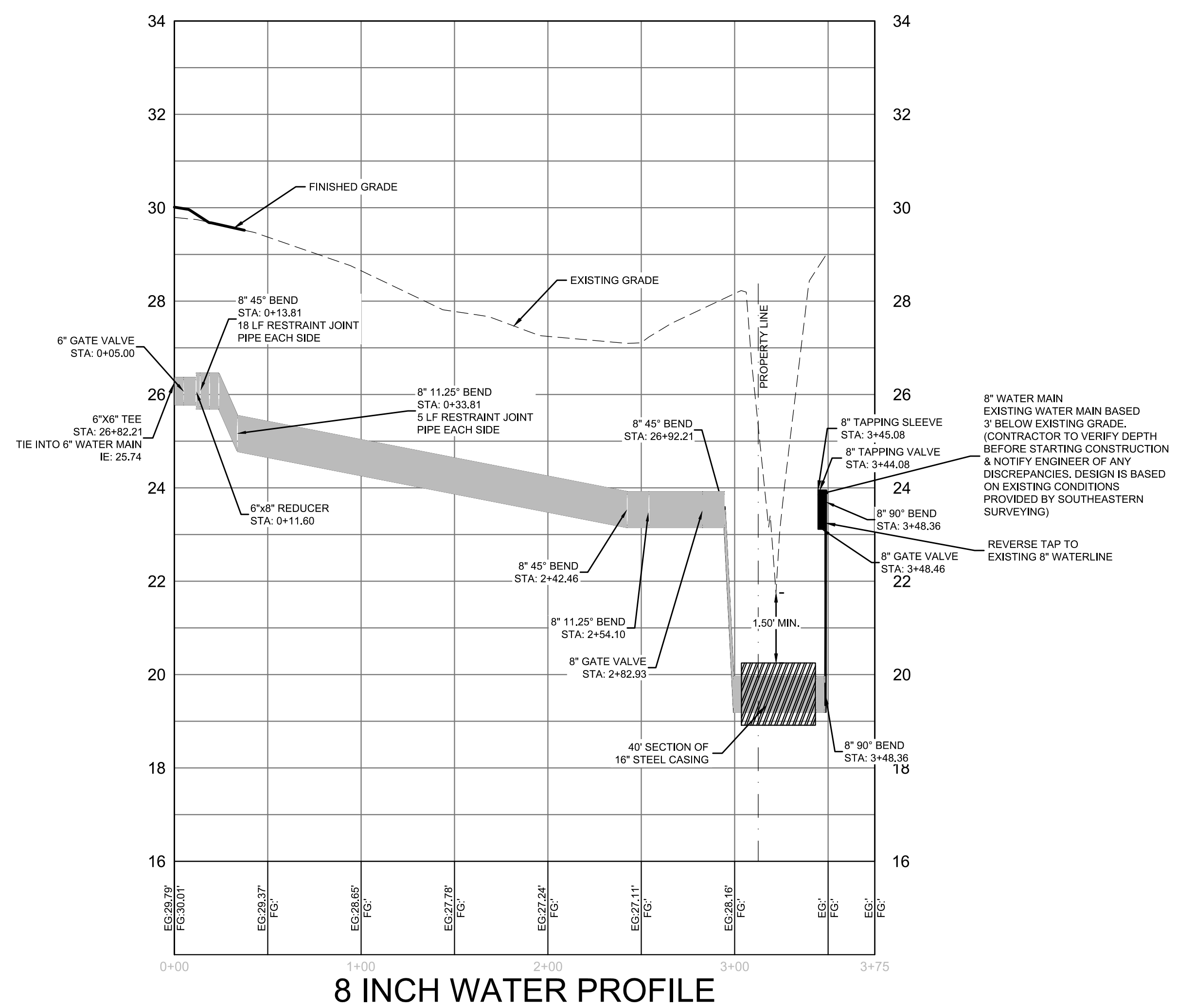
WATER PROFILES



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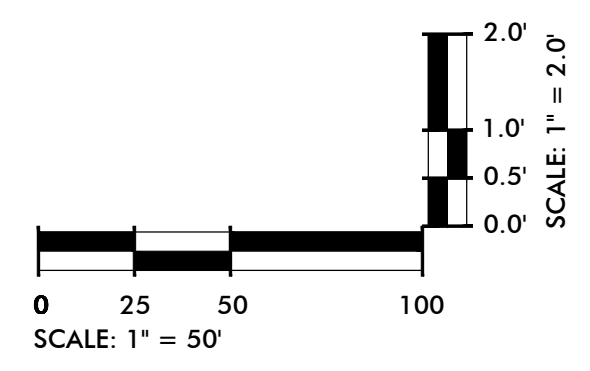
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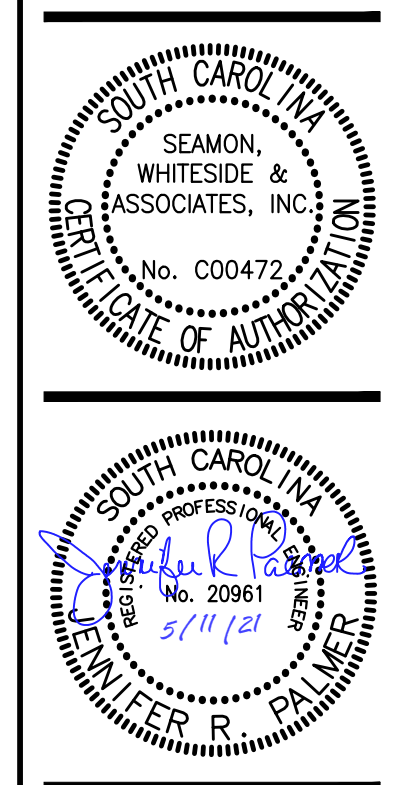
8 INCH WATER PROFILE

**NOTE:**  
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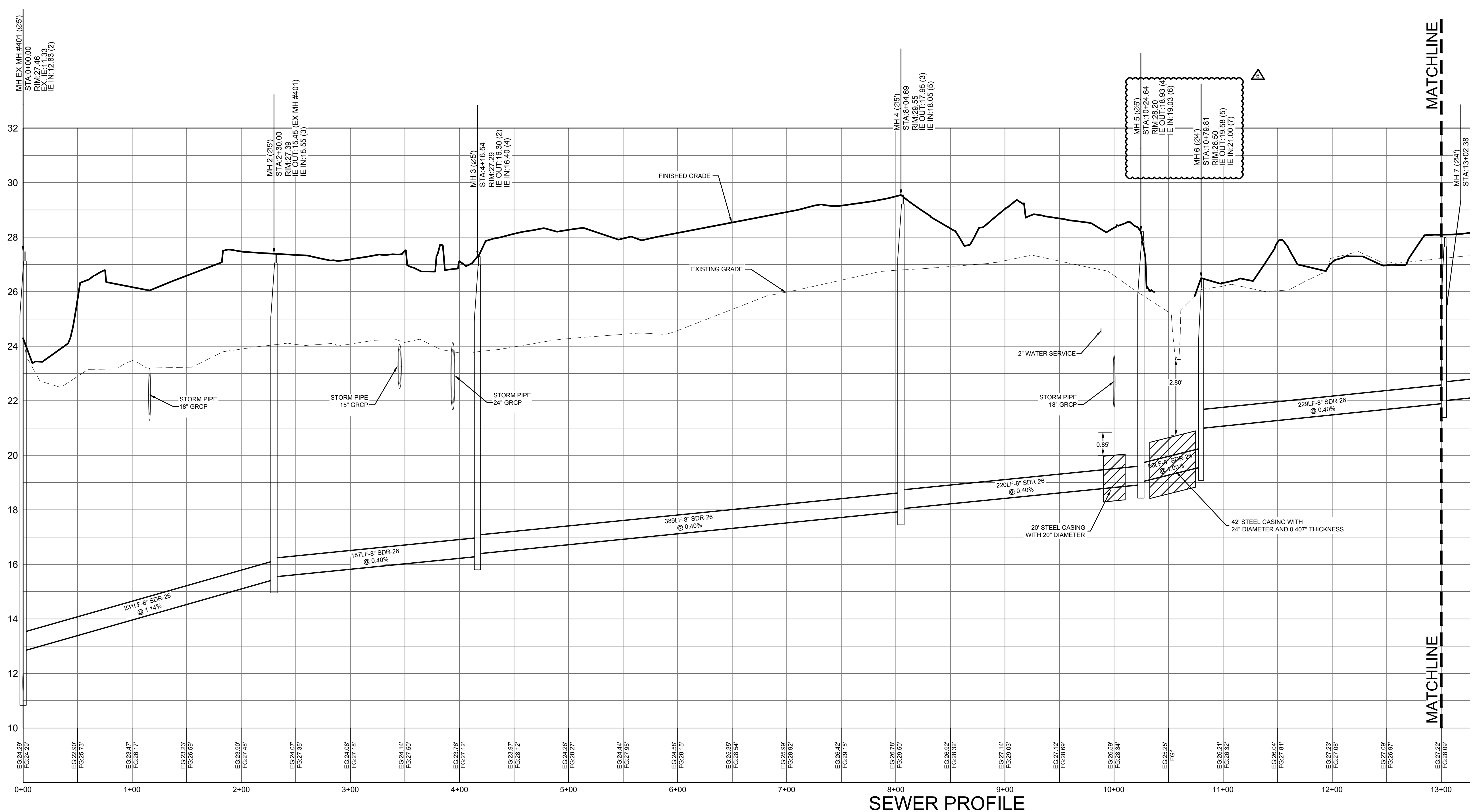
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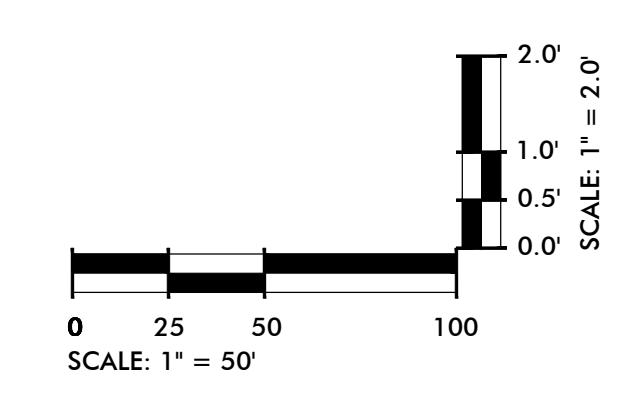
WATER  
PROFILES



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 DRAWN BY: BET  
 CHECKED BY: JRP

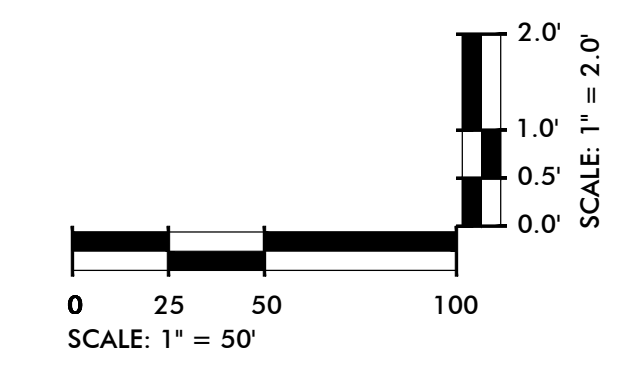
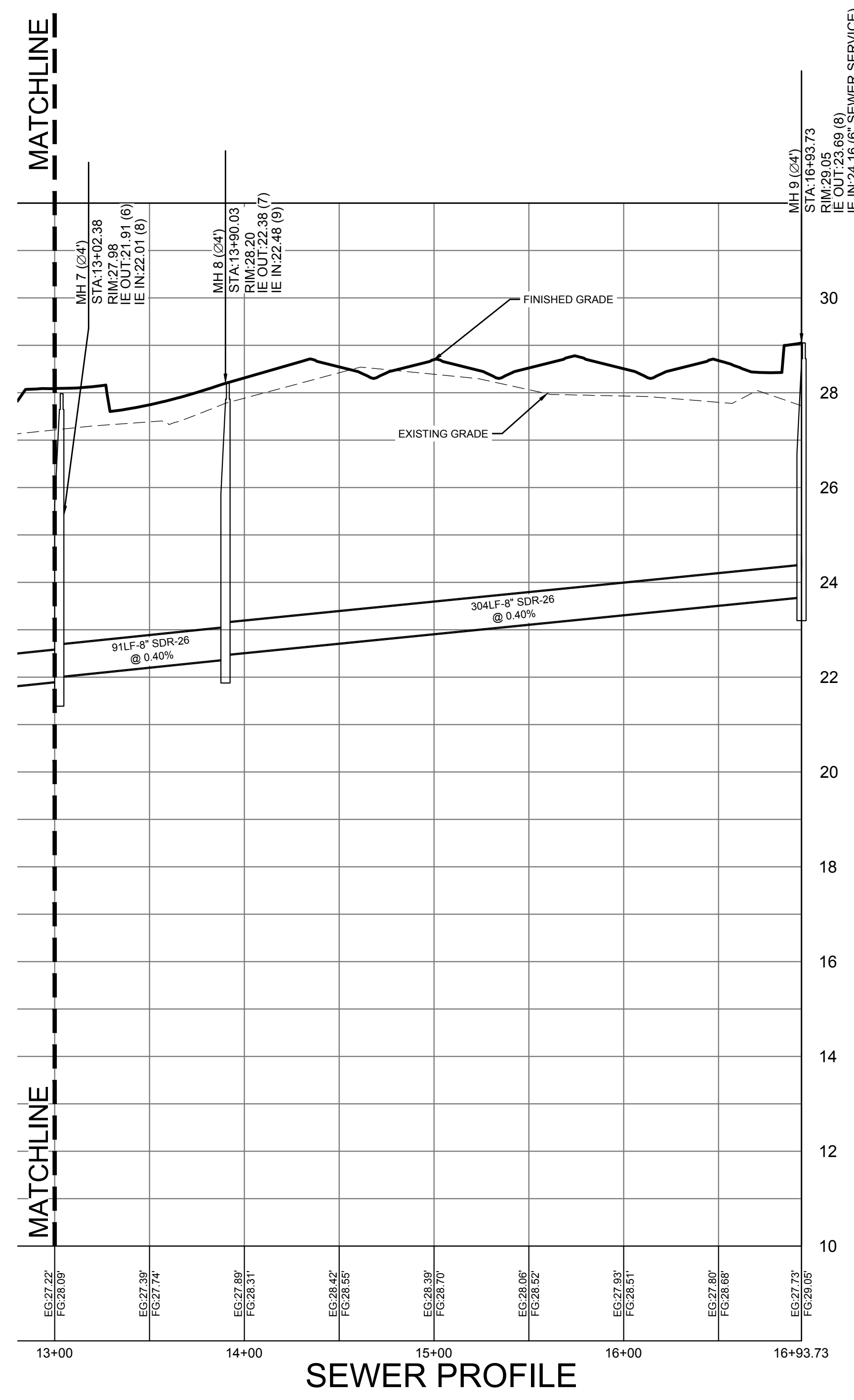
**REVISION HISTORY**

|   |                     |
|---|---------------------|
| A | 6/12/20             |
| B | 10/29/20            |
| C | 01/22/21 6 10/11/21 |
| D | 03/11/21            |

SEWER PROFILES



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**HANAHAN RECREATION  
 COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

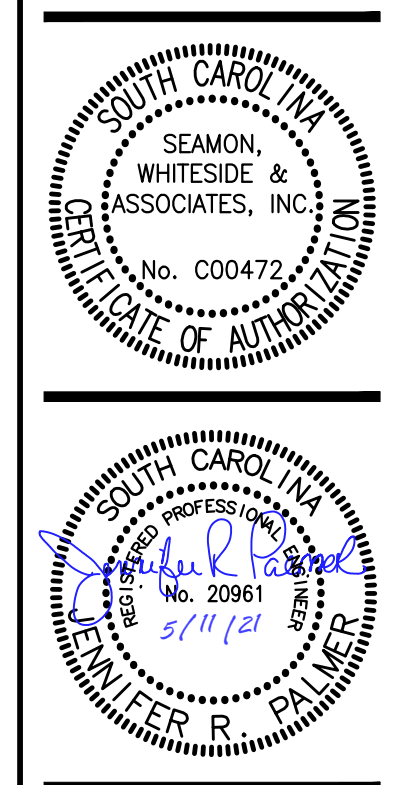
| REVISION HISTORY |          |
|------------------|----------|
| A                | 6/12/20  |
| B                | 10/29/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |

SEWER PROFILES

C9.12

**SW**  
 SEAMON WHITESIDE

MOUNT PLEASANT, SC 843.884.1667  
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RESTRAIN JOINT TABLE

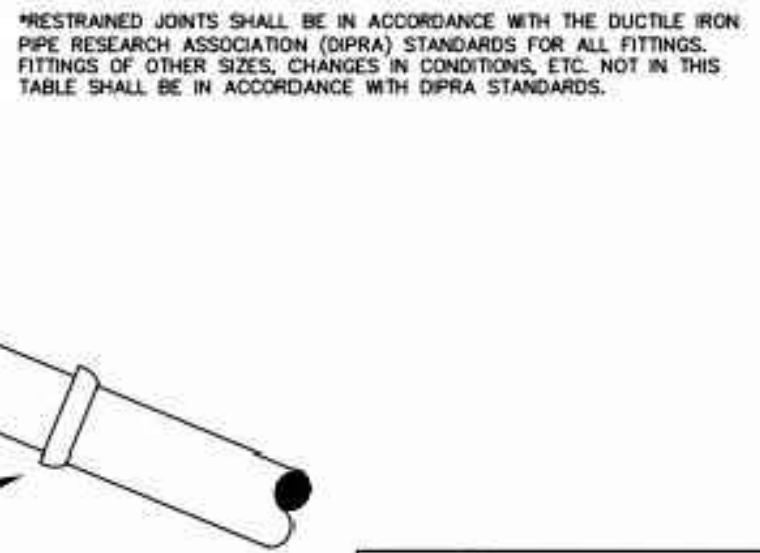
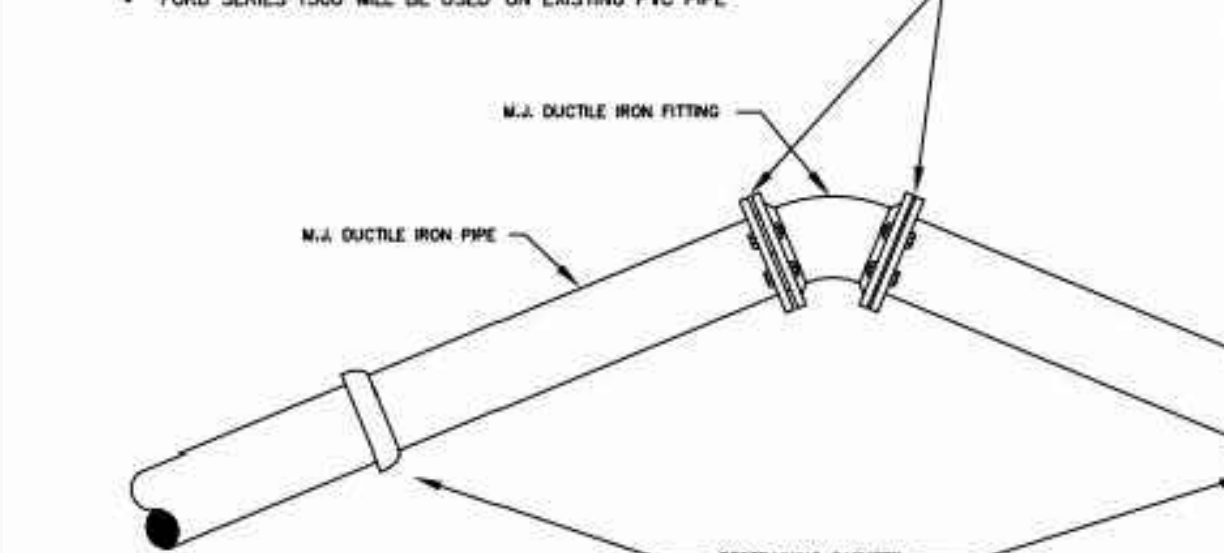
RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (IN L.F. EACH SIDE OF THE FITTING)

| SIZE | 11.1/4" | 22.1/2" | 45" | 90" | TEE BRANCH | TEE DEAD END | REDUCER |
|------|---------|---------|-----|-----|------------|--------------|---------|
| 4"   | 2       | 5       | 10  | 24  | 38         | 61           | 44      |
| 6"   | 4       | 7       | 14  | 33  | 64         | 85           | 47      |
| 8"   | 5       | 9       | 18  | 44  | 91         | 111          | 45      |
| 10"  | 6       | 11      | 22  | 52  | 113        | 132          | 46      |
| 12"  | 6       | 12      | 25  | 60  | 133        | 155          | 84      |
| 16"  | 8       | 16      | 32  | 76  | 177        | 198          | 84      |
| 20"  | 9       | 18      | 36  | 91  | 218        | 236          | 83      |
| 24"  | 11      | 21      | 43  | 104 | 255        | 277          | 116     |

RESTRAIN JOINT TABLE

RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (IN L.F. EACH SIDE OF THE FITTING)

| SIZE | 11.1/4" | 22.1/2" | 45" | 90" | TEE BRANCH | TEE DEAD END | REDUCER |
|------|---------|---------|-----|-----|------------|--------------|---------|
| 4"   | 2       | 5       | 10  | 24  | 38         | 61           | 44      |
| 6"   | 4       | 7       | 14  | 33  | 64         | 85           | 47      |
| 8"   | 5       | 9       | 18  | 44  | 91         | 111          | 45      |
| 10"  | 6       | 11      | 22  | 52  | 113        | 132          | 46      |
| 12"  | 6       | 12      | 25  | 60  | 133        | 155          | 84      |
| 16"  | 8       | 16      | 32  | 76  | 177        | 198          | 84      |
| 20"  | 9       | 18      | 36  | 91  | 218        | 236          | 83      |
| 24"  | 11      | 21      | 43  | 104 | 255        | 277          | 116     |



RESTRAINED JOINT FITTING (HORIZONTAL PIPE ONLY) NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 4

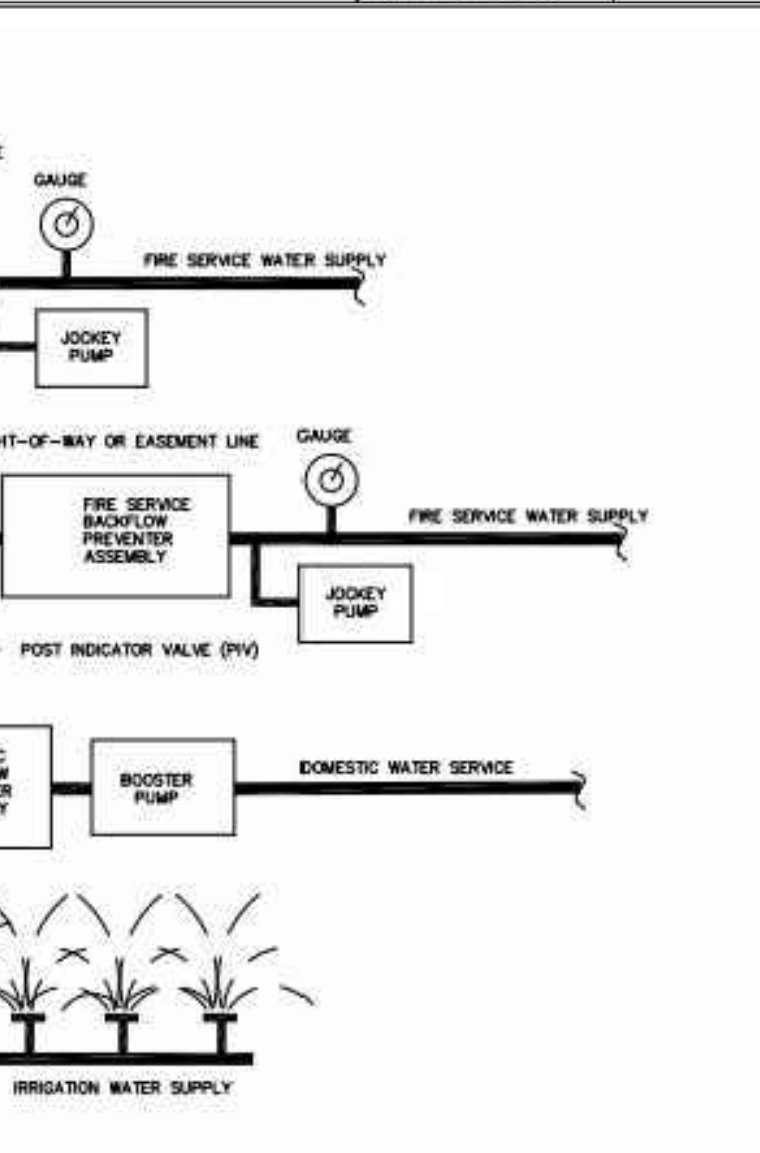
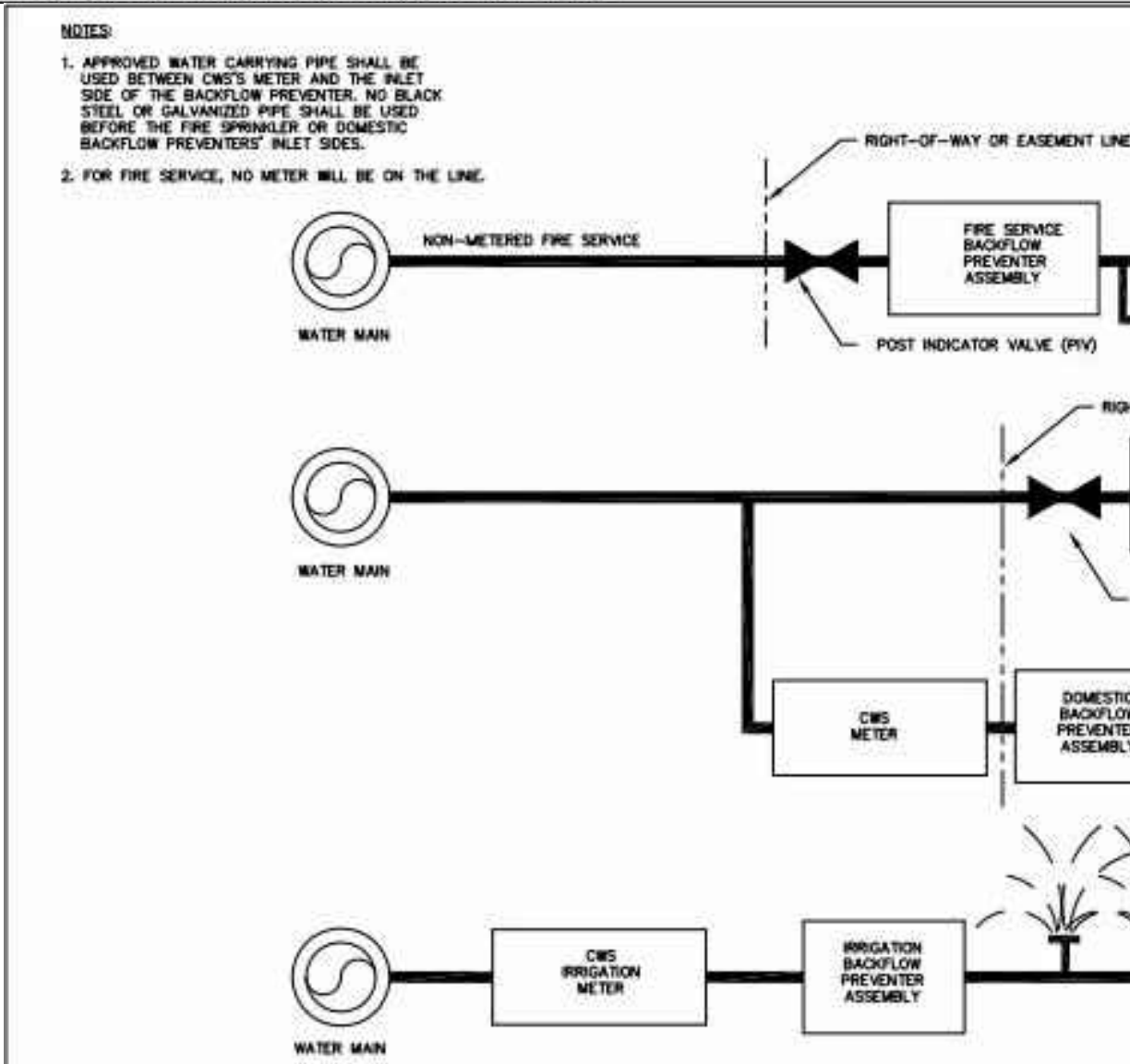
REVISION DATE: JAN 1, 2016

TYPICAL BELL JOINT CLAMP (FOR RESTRAINING EXISTING PIPE ONLY) NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 5

REVISION DATE: JAN 1, 2016



METER AND BACKFLOW SCHEMATIC FOR FIRE, DOMESTIC, AND IRRIGATION SERVICES NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 36

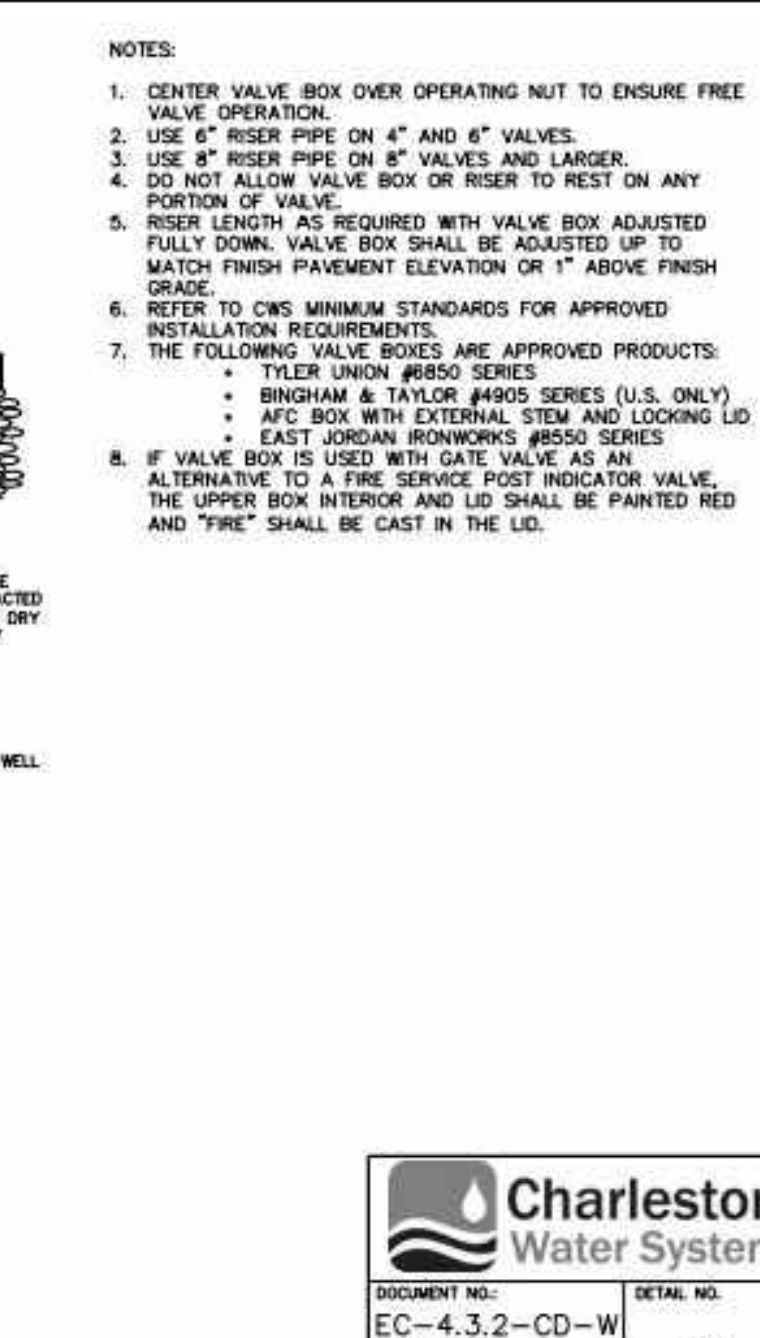
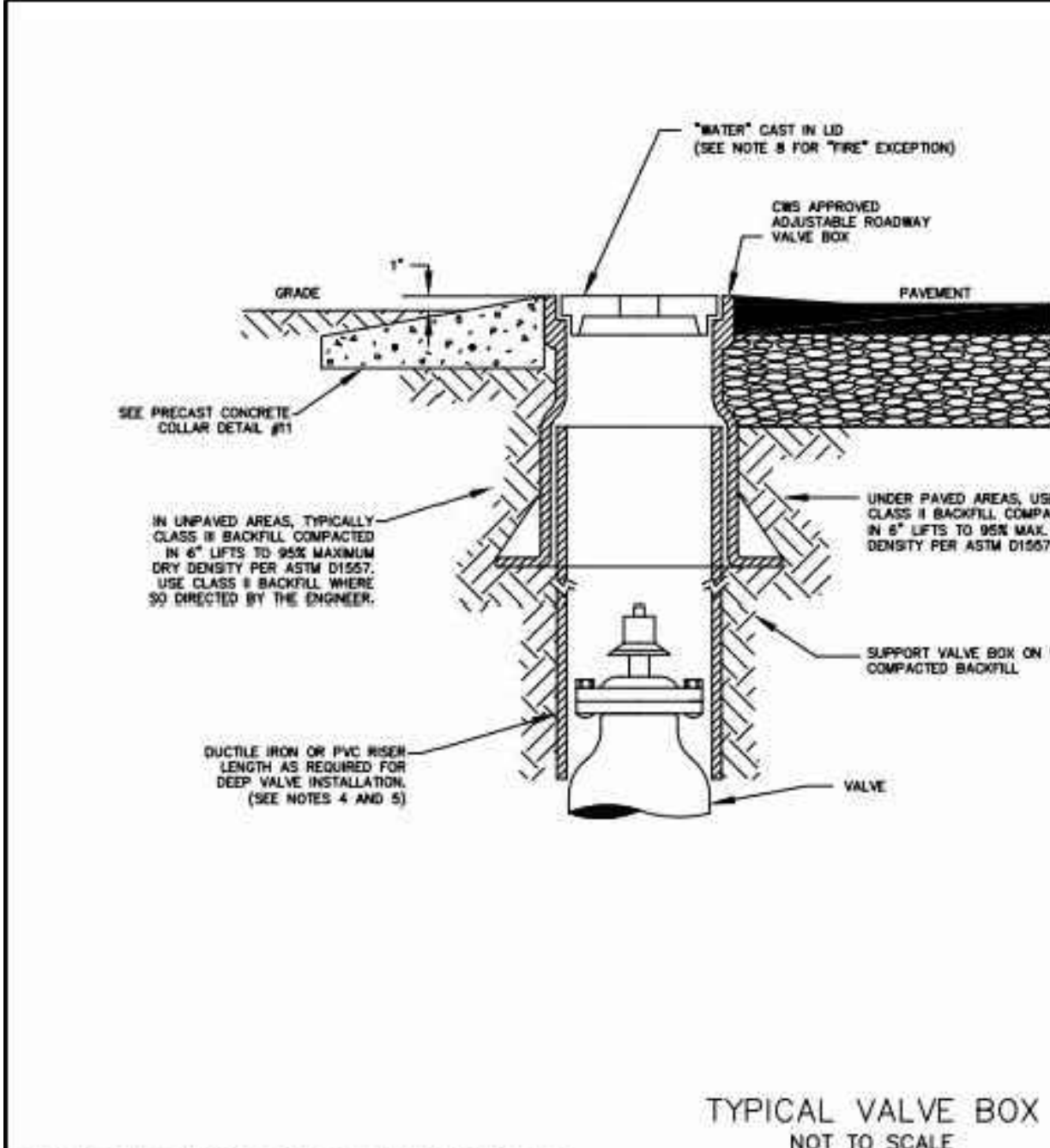
REVISION DATE: NOV 1, 2015

WATER MAIN BEDDING NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 1

REVISION DATE: NOV 1, 2015



TYPICAL VALVE BOX NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 10

REVISION DATE: JAN 1, 2016

1 1/2" AND 2" WATER SERVICE NOT TO SCALE

Charleston Water System

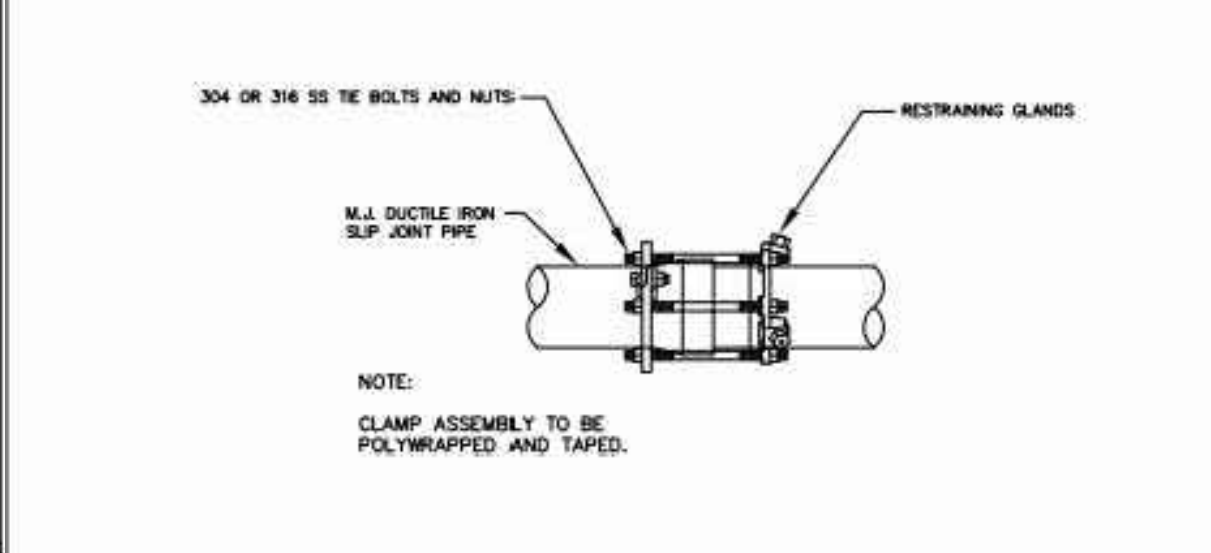
DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 21

REVISION DATE: NOV 1, 2015

RESTRAIN JOINT TABLE

RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (IN L.F. EACH SIDE OF THE FITTING)

| SIZE | 11.1/4" | 22.1/2" | 45" | 90" | TEE BRANCH | TEE DEAD END | REDUCER |
|------|---------|---------|-----|-----|------------|--------------|---------|
| 4"   | 2       | 5       | 10  | 24  | 38         | 61           | 44      |
| 6"   | 4       | 7       | 14  | 33  | 64         | 85           | 47      |
| 8"   | 5       | 9       | 18  | 44  | 91         | 111          | 45      |
| 10"  | 6       | 11      | 22  | 52  | 113        | 132          | 46      |
| 12"  | 6       | 12      | 25  | 60  | 133        | 155          | 84      |
| 16"  | 8       | 16      | 32  | 76  | 177        | 198          | 84      |
| 20"  | 9       | 18      | 36  | 91  | 218        | 236          | 83      |
| 24"  | 11      | 21      | 43  | 104 | 255        | 277          | 116     |

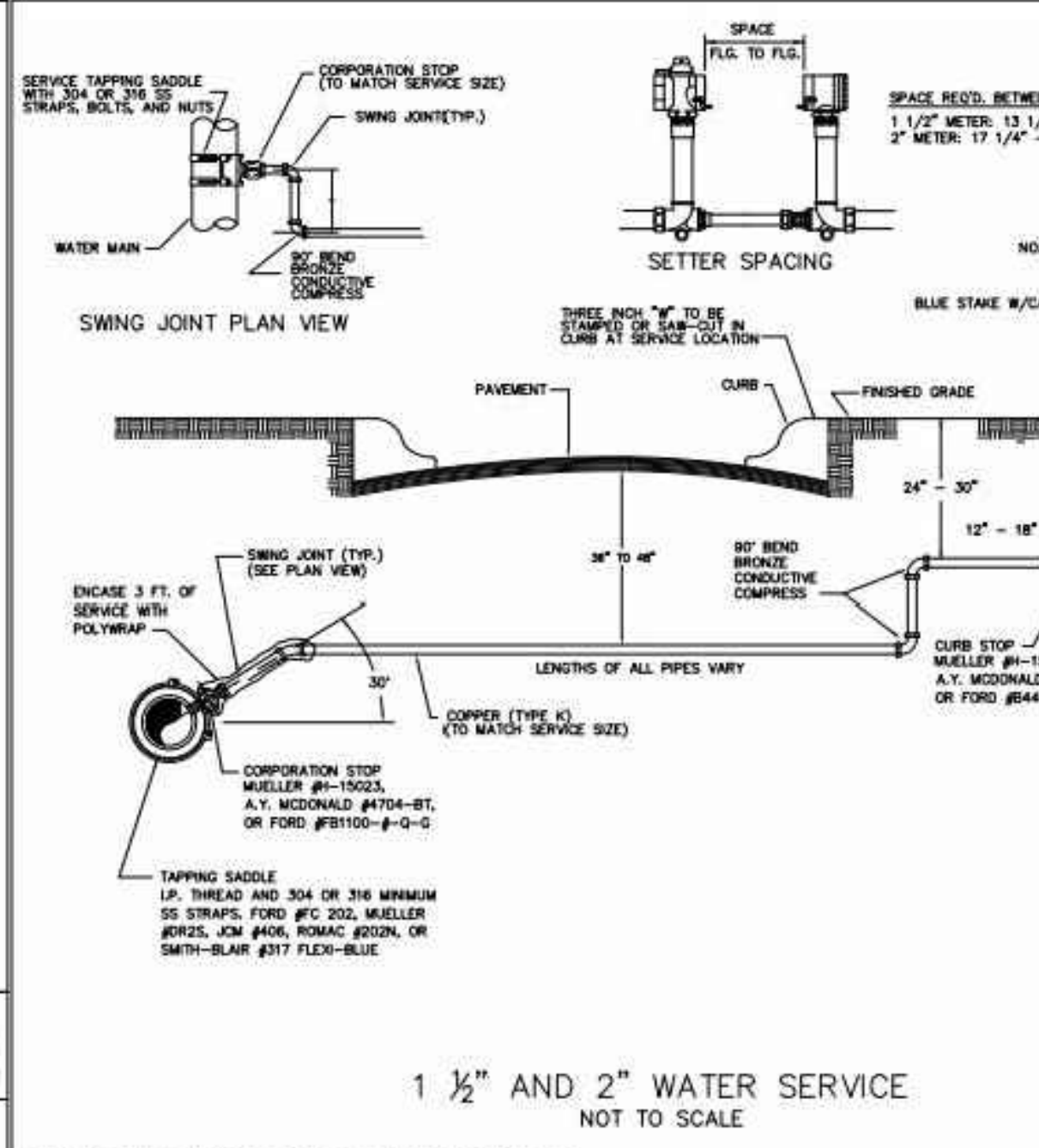
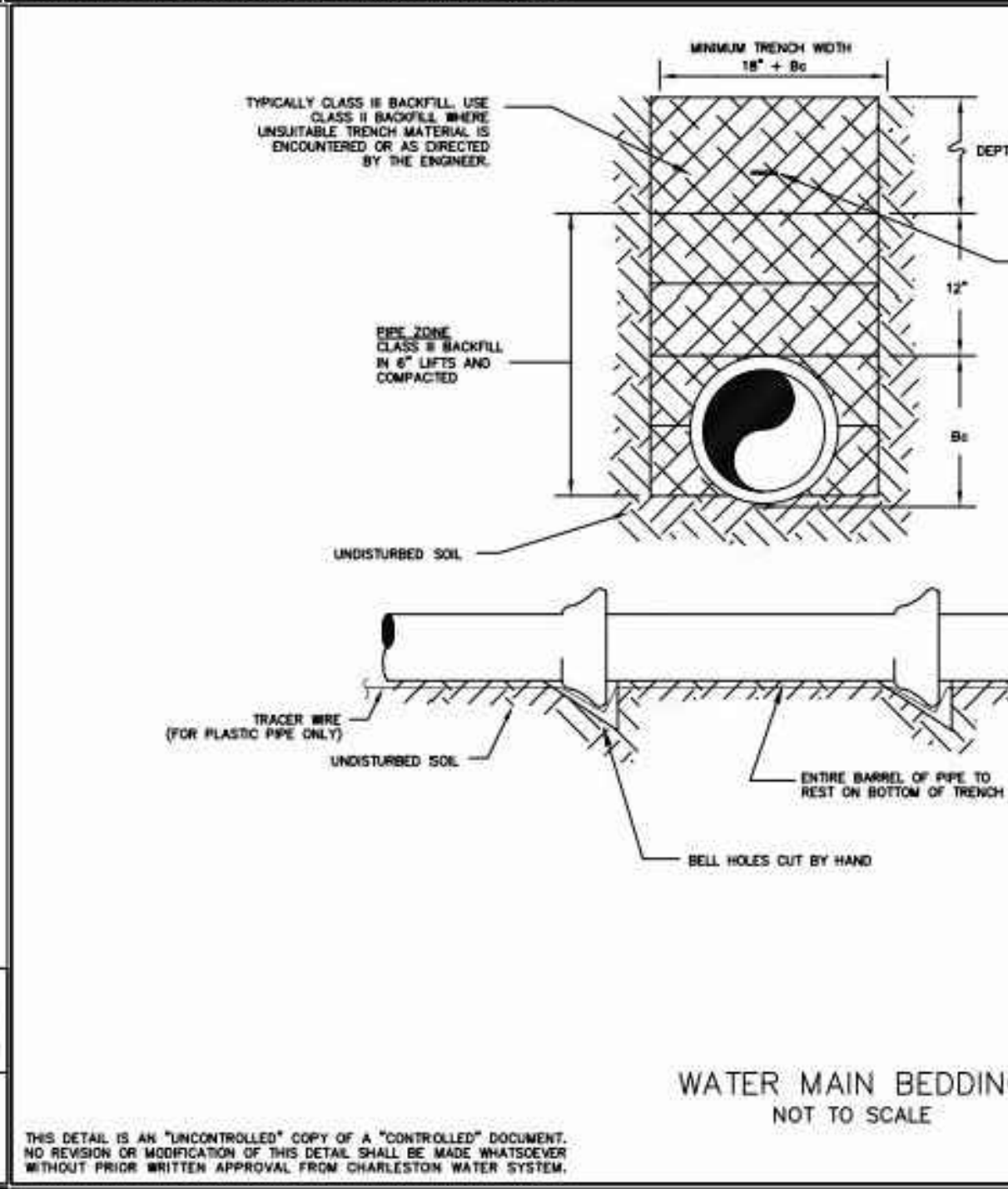


TYPICAL HYDRANT INSTALLATION NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 7

REVISION DATE: NOV 1, 2015



1 1/2" AND 2" WATER SERVICE NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 37

REVISION DATE: NOV 1, 2015

RESTRAIN JOINT TABLE

RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (IN L.F. EACH SIDE OF THE FITTING)

| SIZE | 11.1/4" | 22.1/2" | 45" | 90" | TEE BRANCH | TEE DEAD END | REDUCER |
|------|---------|---------|-----|-----|------------|--------------|---------|
| 4"   | 2       | 5       | 10  | 24  | 38         | 61           | 44      |
| 6"   | 4       | 7       | 14  | 33  | 64         | 85           | 47      |
| 8"   | 5       | 9       | 18  | 44  | 91         | 111          | 45      |
| 10"  | 6       | 11      | 22  | 52  | 113        | 132          | 46      |
| 12"  | 6       | 12      | 25  | 60  | 133        | 155          | 84      |
| 16"  | 8       | 16      | 32  | 76  | 177        | 198          | 84      |
| 20"  | 9       | 18      | 36  | 91  | 218        | 236          | 83      |
| 24"  | 11      | 21      | 43  | 104 | 255        | 277          | 116     |

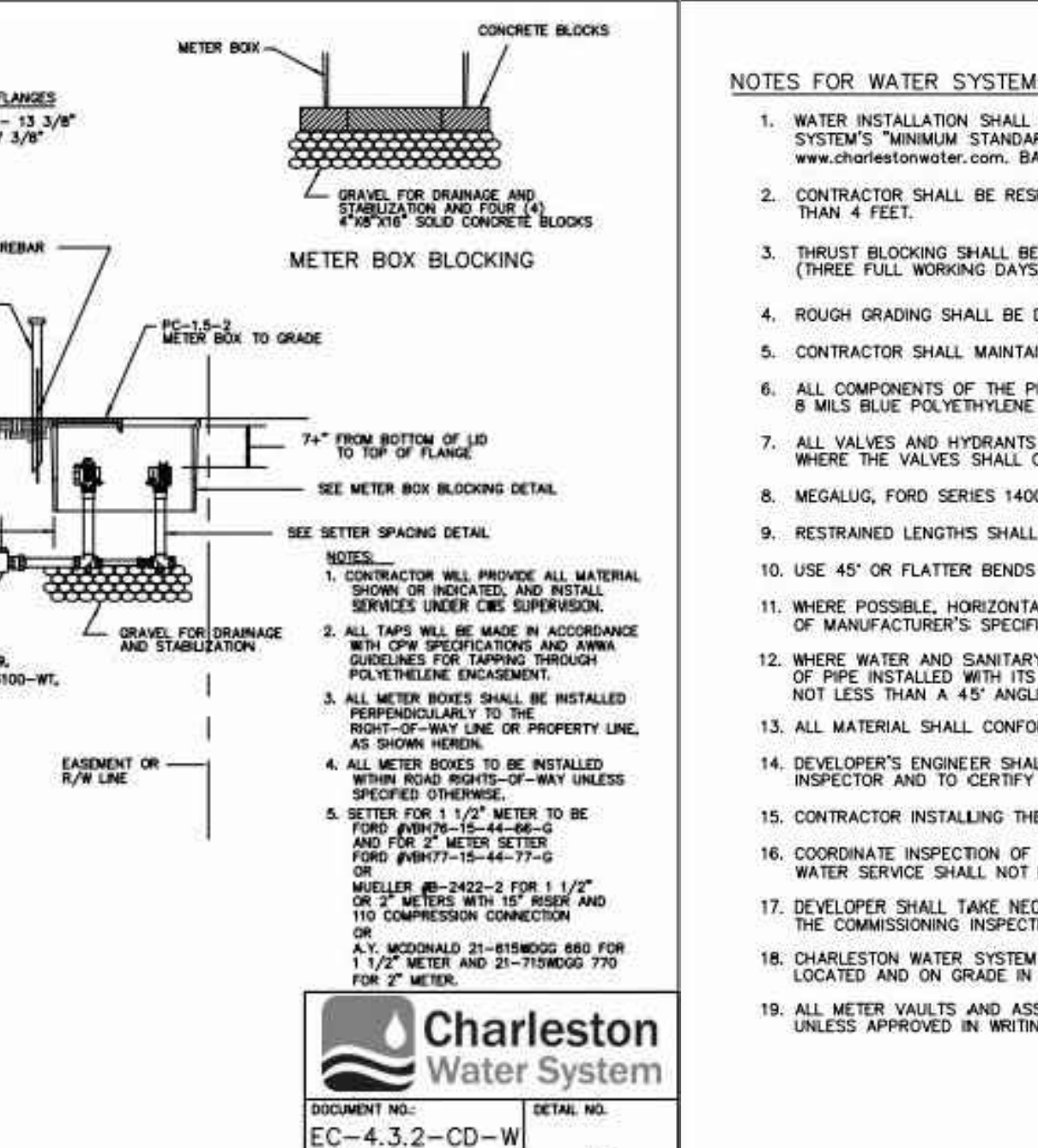
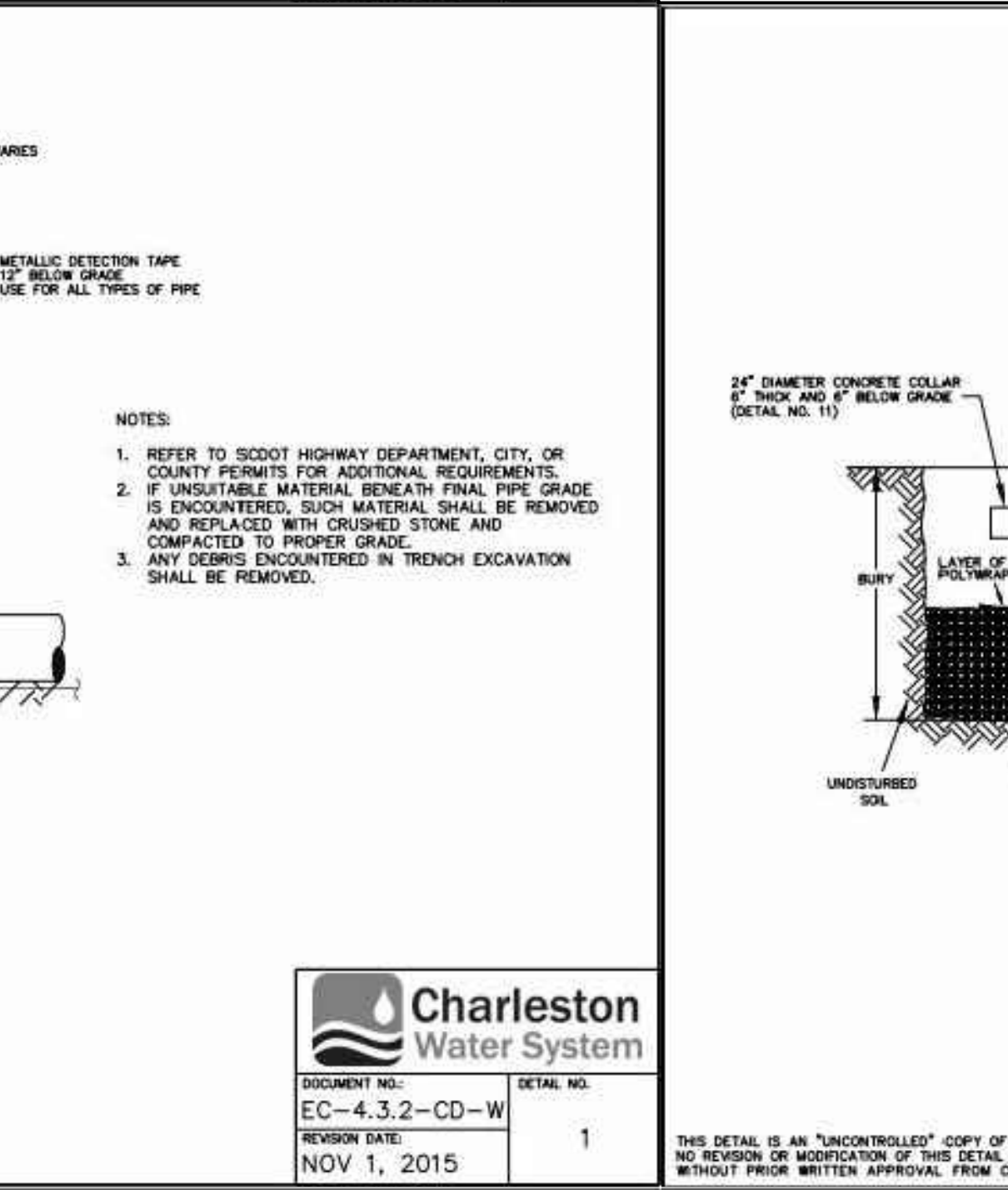


TYPICAL HYDRANT INSTALLATION NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 7

REVISION DATE: NOV 1, 2015



1 1/2" AND 2" WATER SERVICE NOT TO SCALE

Charleston Water System

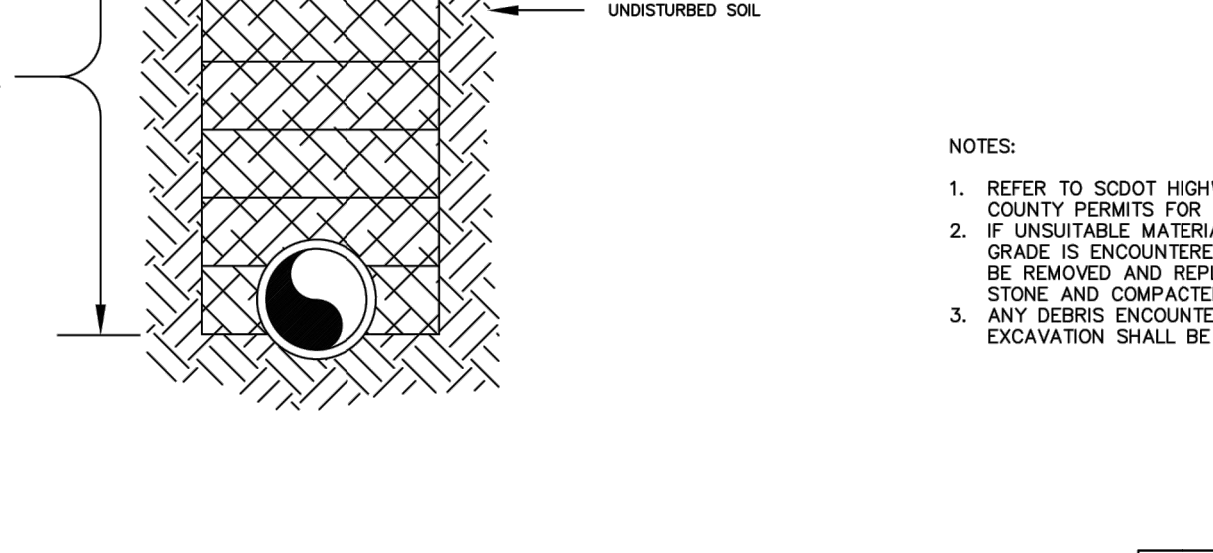
DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 37

REVISION DATE: NOV 1, 2015

RESTRAIN JOINT TABLE

RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (IN L.F. EACH SIDE OF THE FITTING)

| SIZE | 11.1/4" | 22.1/2" | 45" | 90" | TEE BRANCH | TEE DEAD END | REDUCER |
|------|---------|---------|-----|-----|------------|--------------|---------|
| 4"   | 2       | 5       | 10  | 24  | 38         | 61           | 44      |
| 6"   | 4       | 7       | 14  | 33  | 64         | 85           | 47      |
| 8"   | 5       | 9       | 18  | 44  | 91         | 111          | 45      |
| 10"  | 6       | 11      | 22  | 52  | 113        | 132          | 46      |
| 12"  | 6       | 12      | 25  | 60  | 133        | 155          | 84      |
| 16"  | 8       | 16      | 32  | 76  | 177        | 198          | 84      |
| 20"  | 9       | 18      | 36  | 91  | 218        | 236          | 83      |
| 24"  | 11      | 21      | 43  | 104 | 255        | 277          | 116     |

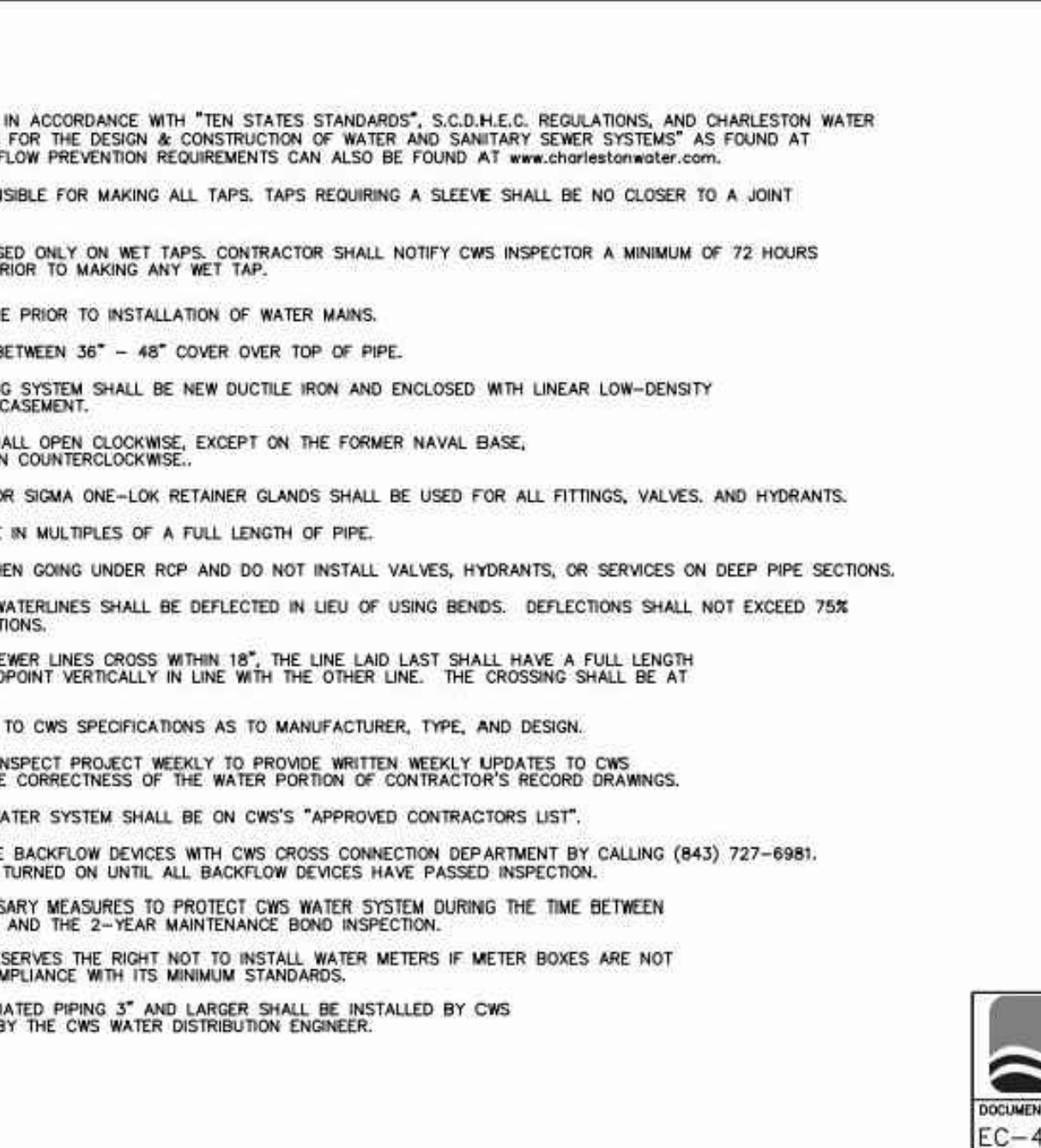
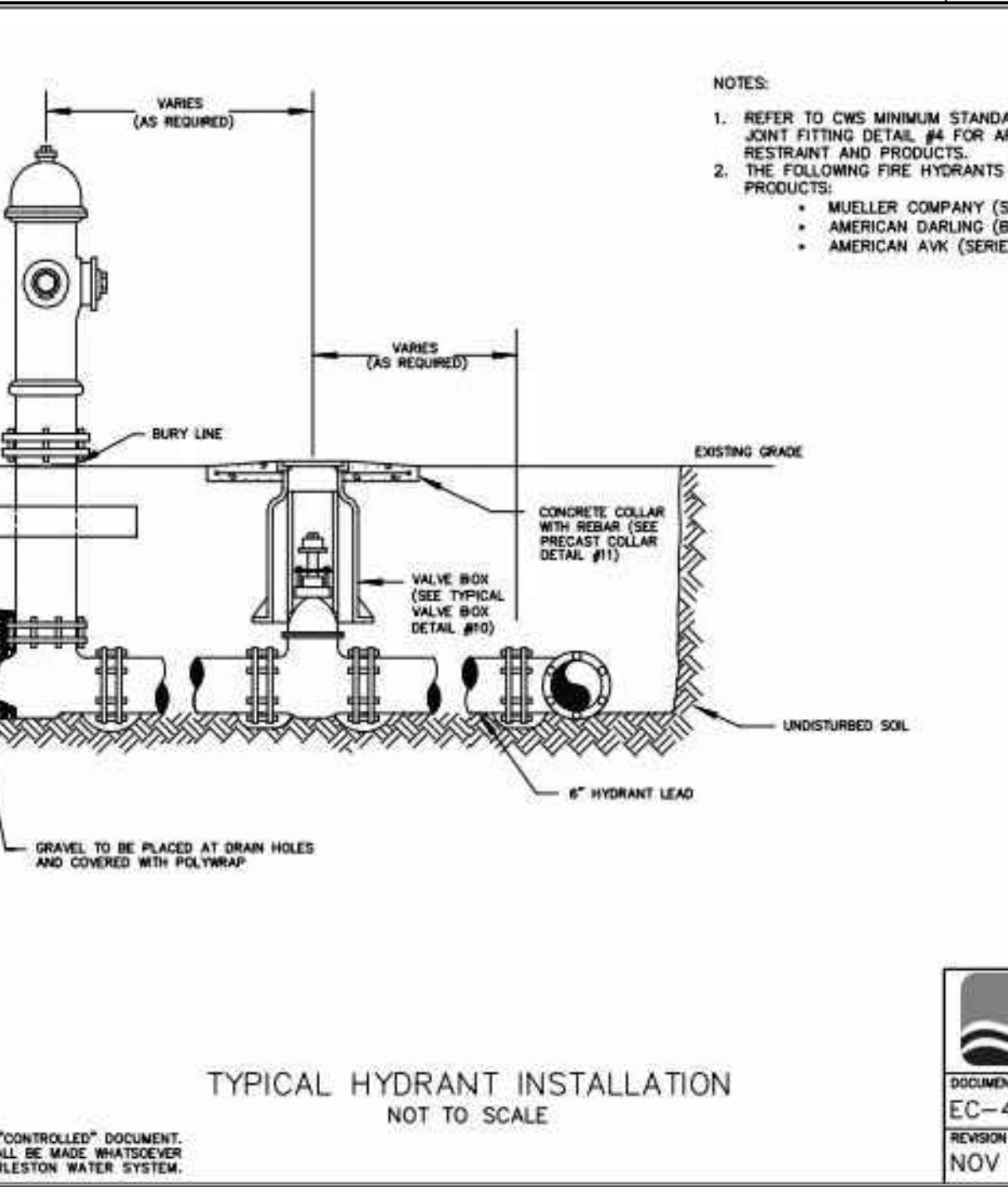


TYPICAL HYDRANT INSTALLATION NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 7

REVISION DATE: NOV 1, 2015



1 1/2" AND 2" WATER SERVICE NOT TO SCALE

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 37

REVISION DATE: NOV 1, 2015

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 3

REVISION DATE: NOV 1, 2015

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 7

REVISION DATE: NOV 1, 2015

Charleston Water System

DOCUMENT NO.: EC-4.3.2-CD-W DETAIL NO.: 37

REVISION DATE: NOV 1, 2015

SEAMON WHITESIDE & ASSOCIATES, INC.

REGISTERED PROFESSIONAL ENGINEER

STATE OF SOUTH CAROLINA

No. 00047

DATE: 5/11/21

SEAMON WHITESIDE & ASSOCIATES, INC.

REGISTERED PROFESSIONAL ENGINEER

STATE OF SOUTH CAROLINA

No. 20961

DATE: 5/11/21

HANAHAN RECREATION COMPLEX

CITY OF HANAHAN

HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867

DATE: 06/12/20

DRAWN BY: BET

CHECKED BY: JRP

REVISION HISTORY

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 10/29/20 |
| C | 01/22/21 |
| D | 03/11/21 |

WATER DETAILS



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**NOTES:**

- TAPPING SADDLES ARE NOT ALLOWED FOR MAIN-ON-MAIN TAPS.
- REFER TO THE CWS MINIMUM STANDARDS FOR APPROVED INSTALLATION REQUIREMENTS.
- THE FOLLOWING TAPPING SLEEVES ARE APPROVED PRODUCTS:
  - 4" THROUGH 24" - MUELLER H-515 OR AMERICAN FLOW CONTROL SERIES 2800
  - 30" THROUGH 36" - AMERICAN FLOW CONTROL SERIES 2800 OR JCM 414 FABRICATED MECHANICAL JOINT WITH FUSION BONDED EPOXY COATING.
- BOLTS AND NUTS FOR TAPPING SLEEVES SHALL BE AS STATED IN SECTION 8 OF THE MINIMUM STANDARDS.
- USE THRUST BLOCKING ONLY FOR WET TAPS UNLESS OTHERWISE APPROVED BY CWS.
- DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING.
- THE END OF THE TAPPING SLEEVE SHALL BE NO CLOSER THAN 4 FEET TO A JOINT.

| TAP SIZE | W   | H   | D   |
|----------|-----|-----|-----|
| 4" & 6"  | 2.0 | 1.4 | 1.0 |
| 8"       | 3.5 | 2.0 | 1.4 |
| 10"      | 4.0 | 2.5 | 1.8 |
| 12"      | 5.0 | 3.0 | 2.5 |

**TYPICAL TAPPING SLEEVE**  
NOT TO SCALE

THIS DETAIL IS AN "UNCONTROLLED" COPY OF A "CONTROLLED" DOCUMENT. NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WHATSOEVER WITHOUT PRIOR WRITTEN APPROVAL FROM CHARLESTON WATER SYSTEM.

DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: JAN 1, 2016  
DETAIL NO.: 8

**PRECAST CONCRETE COLLAR**  
NOT TO SCALE

NOTE:  
NO PRECAST CONCRETE COLLAR IS NEEDED IF VALVE BOX IS LOCATED IN PAVED OR CONCRETE AREA.

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DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: NOV 1, 2015  
DETAIL NO.: 11

**CWS VALVE MARKER**  
NOT TO SCALE

**NOTES:**

- MARKER SHALL HAVE A 2" DIA. BRASS INSERT CAST IN TOP. PLACE MARKER 1'-0" NOSE & W WITH A DIRECTION ARROW A DISTANCE FROM MARKER TO VALVE STAMPED ON BRASS INSERT.
- MARKER SHALL BE PAINTED WATER BLUE.
- THE LETTERS "WV" SHALL BE ON THE ROAD SIDE OF THE MARKER.
- LOCATE AT ALL BURIED VALVES ON MAINS GREATER THAN 12".

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DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: NOV 1, 2015  
DETAIL NO.: 29

**TYPICAL ROAD CUT**  
NOT TO SCALE

**NOTES:**

- REFER TO SCDOT HIGHWAY DEPARTMENT, CITY, OR COUNTY PERMITS FOR ADDITIONAL REQUIREMENTS.
- IF UNSUITABLE MATERIAL BENEATH FINAL PIPE GRADE IS ENCOUNTERED, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH CRUSHED STONE AND COMPACTED TO PROPER GRADE.
- ANY DEBRIS ENCOUNTERED IN TRENCH EXCAVATION SHALL BE REMOVED.

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DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: NOV 1, 2015  
DETAIL NO.: 2

**TYPICAL 15' CWS WATER EASEMENT**  
NOT TO SCALE

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DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: NOV 1, 2015  
DETAIL NO.: 27

| RESTRAIN JOINT TABLE | RESTRAIN ALL JOINTS WITHIN THESE LENGTHS (ON I.E. EACH SIDE OF THE FITTING) |         |     |     |     |      |         |        |
|----------------------|---|---------|-----|-----|-----|------|---------|--------|
| SIZE                 | 11 1/4'   | 22 1/2' | 40' | 60' | TEE | DEAD | REDUCER | BRANCH |
| 4"                   | 2   | 5       | 10  | 24  | 38  | 61   | 44      |        |
| 6"                   | 4   | 7       | 14  | 33  | 64  | 85   | 47      |        |
| 8"                   | 5   | 9       | 18  | 44  | 91  | 111  | 45      |        |
| 10"                  | 6   | 11      | 22  | 52  | 113 | 132  | 46      |        |
| 12"                  | 6   | 12      | 25  | 60  | 133 | 155  | 84      |        |
| 16"                  | 8   | 16      | 32  | 76  | 177 | 198  | 84      |        |
| 20"                  | 9   | 18      | 38  | 91  | 218 | 238  | 83      |        |
| 24"                  | 11  | 21      | 43  | 104 | 255 | 277  | 116     |        |

**RESTRAIN JOINT TABLE**  
NOT TO SCALE

**NOTES:**

- THE FOLLOWING CONDITIONS WERE USED TO CALCULATE THE RESTRAINED LENGTHS SHOWN IN THE TABLE:
  - LAYING CONDITION IS TYPE 3
  - SOIL DESIGNATED AS SAND-SILT
  - DEPTH IS 3 FT.
  - DESIGN PRESSURE (TEST) IS 150 P.S.I.
  - SAFETY FACTOR IS 1.5
- FOR THE TEE BRANCH AND REDUCER, LENGTHS ARE BASED ON BRANCHING AND REDUCING FROM THE NEXT LARGER SIZE IN THE TABLE. TEE BRANCH LENGTH BASED ON RUN LENGTH TO FIRST JOINT OF 10 FT. DEVIATIONS FROM THESE CONDITIONS MUST BE BASED ON THE ABOVE PARAMETERS.
- REFER TO CWS MINIMUM STANDARDS FOR APPROVED RESTRAINING METHODS. THE FOLLOWING RESTRAINING GLANDS AND GASKETS ARE APPROVED PRODUCTS:
  - FOR DUCTILE IRON PIPE:
    - AMERICAN CAST IRON PIPE - FAST GRIP, FLEX-RING, FIELD FLEX-RING, OR LOCK-RING
    - US PIPE - TR FLEX OR FIELD LOK 350 GASKETS
    - GRIFIN PIPE - SNAP-LOK RESTRAINED JOINT, OR TALON RJ GASKET
    - EBAA - MEGALUG RESTRAINED GLAND
    - FORD - SERIES 1400 RESTRAINED GLAND
    - SIGMA - ONE-LOK SERIES SLD RESTRAINED GLAND
    - MCWANE - SURE STOP 350 RESTRAINED GLAND
  - FOR PVC PIPE:
    - EBAA MEGALUG SERIES 2000PV
    - FORD SERIES 1500 WILL BE USED ON EXISTING PVC PIPE

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DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: JAN 1, 2016  
DETAIL NO.: 6

**NOTES:**

- CONTRACTOR WILL PROVIDE ALL MATERIAL AND INSTALL SERVICES UNDER CWS SUPERVISION.
- ALL TAPS WILL BE MADE IN ACCORDANCE WITH CWS MINIMUM STANDARDS AND ANNA GUIDELINES FOR TAPPING THROUGH POLYETHYLENE ENCASEMENT.
- ALL METER BOXES SHALL BE INSTALLED PERPENDICULAR TO THE RIGHT-OF-WAY LINE OR PROPERTY LINE, AS SHOWN HEREIN.
- ALL METER BOXES TO BE INSTALLED WITHIN ROAD RIGHTS-OF-WAY UNLESS SPECIFIED OTHERWISE.

**3/4" - 1" SINGLE WATER SERVICE (NEAR SIDE)**  
NOT TO SCALE

THIS DETAIL IS AN "UNCONTROLLED" COPY OF A "CONTROLLED" DOCUMENT. NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WHATSOEVER WITHOUT PRIOR WRITTEN APPROVAL FROM CHARLESTON WATER SYSTEM.

DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: JAN 1, 2016  
DETAIL NO.: 19

**TYPICAL VALVE CARD**  
NOT TO SCALE

| LOCATION | SIZE | MAKE        | DATE SET  | NO. TURNS |
|----------|------|-------------|-----------|-----------|
| A        | 8"   | AM. DARLING | 11/1/2014 | 27        |
| B        | 6"   | AM. DARLING | 11/1/2014 | 20.5      |
| C        | 12"  | AM. DARLING | 11/1/2014 | 38.5      |
| D        | 8"   | AM. DARLING | 11/1/2014 | 27        |
| E        | 12"  | AM. DARLING | 11/1/2014 | 38.5      |

THIS DETAIL IS AN "UNCONTROLLED" COPY OF A "CONTROLLED" DOCUMENT. NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WHATSOEVER WITHOUT PRIOR WRITTEN APPROVAL FROM CHARLESTON WATER SYSTEM.

DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: JAN 1, 2016  
DETAIL NO.: 28

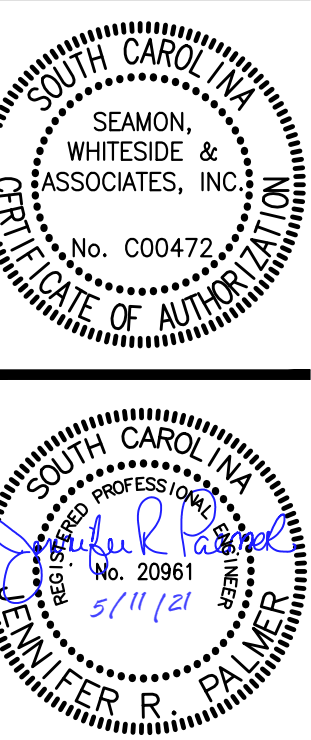
**NOTES:**

- FOR NEW STREETS, INSTALL WATER VALVES (WV) AT THE TANGENTS OF THE RIGHT-OF-WAY (ROW) INTERSECTION CURVES.
- FOR EXISTING STREETS, INSTALL VALVES AT THE ENDS OF PAVED TRANSITION CURVES.
- THE MAIN LINE VALVE SHALL NORMALLY BE SET BEYOND ANY FIRE HYDRANT (FH) AT THE INTERSECTION.
- VALVES SHOULD BE INSTALLED OUTSIDE OF PAVED ROADWAYS UNLESS OTHERWISE SPECIFIED.

**INTERSECTION VALVE LOCATIONS**  
NOT TO SCALE

THIS DETAIL IS AN "UNCONTROLLED" COPY OF A "CONTROLLED" DOCUMENT. NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WHATSOEVER WITHOUT PRIOR WRITTEN APPROVAL FROM CHARLESTON WATER SYSTEM.

DOCUMENT NO.: EC-4.3.2-CD-W  
REVISION DATE: NOV 1, 2015  
DETAIL NO.: 13



SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

**REVISION HISTORY**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 6/12/20  |             |
| B   | 10/29/20 |             |
| C   | 01/22/21 |             |
| D   | 03/11/21 |             |

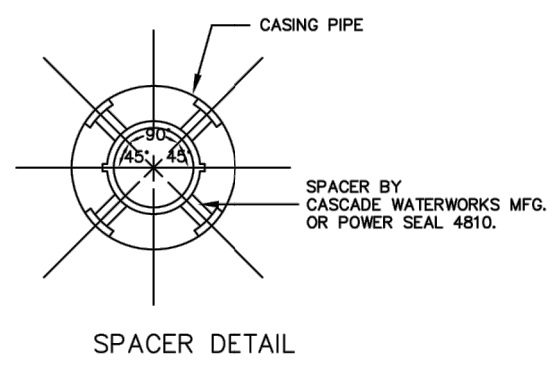
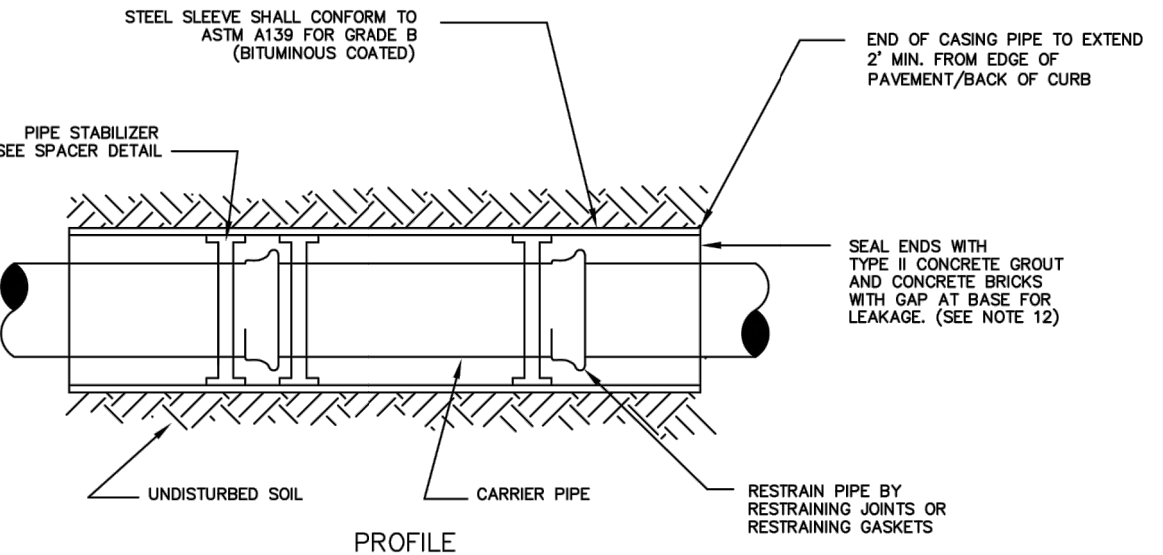


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- NOTES:**
- REFER TO APPLICABLE PERMITS FOR MINIMUM REQUIREMENTS GOVERNING HIGHWAY OR RAILROAD UNDERCROSSINGS.
  - THE MINIMUM DIAMETER AND THICKNESS OF THE CASING PIPE SHALL BE AS LISTED IN THE TABLE SHOWN IN THIS DETAIL.
  - SEE AGENCY PERMIT FOR LENGTH AND DEPTH REQUIREMENTS.
  - IN CASE OF A CONFLICT BETWEEN THIS DETAIL AND A PERMIT, THE STRICTEST REQUIREMENT SHALL GOVERN.
  - PERFORM ALL EXCAVATION AND BACKFILLING ACTIVITIES IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (PL 91-597), AS AMENDED.
  - USE CASING SPACERS (SEE DETAIL) TO MOVE CARRIER PIPE INTO CASING PIPE. SPACING OF SPACERS WILL BE DICTATED BY THE LENGTH OF CASING PIPE AND NUMBER OF JOINTS OF CARRIER PIPE. USE A MINIMUM OF 2 SPACERS PER JOINT OF PIPE OR 1 SPACER PER 10'.
  - AT NO TIME DURING THE BORING AND JACKING OPERATION SHALL THE ALUZER HEAD BE ALLOWED TO EXTEND OUT IN FRONT OF THE CASING BEING INSTALLED.
  - THE BORING AND JACKING OF THE CASING PIPE SHALL BE A CONTINUOUS INSTALLATION, WITH NO WELDING OF THE CASING UNDER THE TRAVEL LANE PAVEMENT AND IN ACCORDANCE WITH THE APPLICABLE ENDORSEMENT PERMIT.
  - CONTRACTOR SHALL SUBMIT PLANS AND SPECIFICATIONS FOR DEWATERING TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING THE PROCESS (FOR RAILWAYS, RAILWAY AUTHORITY MUST APPROVE ALSO). IT WILL BE THE SOLE JUDGMENT OF DOT OR RAILWAY AUTHORITY AS TO WHEN THE OPERATION CAN BE SAFELY HALTED.
  - BORED INSTALLATIONS SHALL HAVE A BORED HOLE NO MORE THAN 1-INCH GREATER THAN OUTSIDE DIAMETER OF THE CASING PIPE.
  - JOINTS BETWEEN LENGTHS SHALL BE COMPLETELY WELDED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY RECOMMENDED PROCEDURES.
  - SEAL CASING ENDS WITH TYPE II CONCRETE GROUT AND CONCRETE BRICKS, SO AS TO PREVENT THE ENTRANCE OF SOIL. LEAVE A GAP TO ALLOW LEAKAGE TO PASS IN CASE OF A MAIN BREAK.
  - PIPING INSIDE CASING SHALL BE POLYTRAPPED.

| STEEL CASING PIPE SIZE REQUIREMENTS FOR ASTM A139 GRADE B |                              |                                   |
|---|------------------------------|-----------------------------------|
| RESTRAINED JOINT OF CARRIER PIPE SIZE (INCHES)            | MINIMUM CASING SIZE (INCHES) | MINIMUM CASING THICKNESS (INCHES) |
| 4   | 14                           | 0.250                             |
| 6   | 16                           | 0.281                             |
| 8   | 18                           | 0.312                             |
| 10  | 20                           | 0.343                             |
| 12  | 24                           | 0.375                             |
| 14  | 26                           | 0.406                             |
| 16  | 30                           | 0.469                             |
| 18  | 32                           | 0.500                             |
| 20  | 36                           | 0.532                             |
| 24  | 42                           | 0.625                             |
| 30  | 48                           | 0.688                             |
| 36  | 54                           | 0.750                             |
| 42  | 54                           | 0.812                             |
| 48  | 60                           | 0.875                             |
| 54  | 72                           | 1.000                             |

NOTE: ACTUAL THICKNESS SHALL BE DETERMINED BY THE CASING INSTALLER BASED ON AN EVALUATION OF THE REQUIRED JACKING FORCES.



**Charleston Water System**

DOCUMENT NO.: EC-4.3.2-CD-W

DETAIL NO.: 18

REVISION DATE: JAN 1, 2016

- NOTES:**
- ONLY DOUBLE CHECK VALVE ASSEMBLIES 2" AND SMALLER MAY BE INSTALLED BELOW GROUND AS SHOWN. ALL REDUCED PRESSURE PRINCIPLE ASSEMBLIES AND DOUBLE CHECK VALVE ASSEMBLIES LARGER THAN 2" MUST BE INSTALLED ABOVE GROUND.
  - BOX MUST BE SIZED TO ALLOW ADEQUATE ROOM FOR TESTING AND MAINTENANCE. TYPICALLY THIS DIMENSION SHOULD BE A MIN. OF 6" ALL AROUND (SIDES AND BOTTOM).
  - BELOW-GROUND INSTALLATIONS SHALL BE INSTALLED USING AN ACCEPTABLE ENCLOSURE BOX WITH TOP FOR ASSEMBLIES EXPOSED TO VEHICULAR TRAFFIC A TRAFFIC-GRADE ENCLOSURE BOX OR PROTECTIVE BOLLARDS ARE REQUIRED.

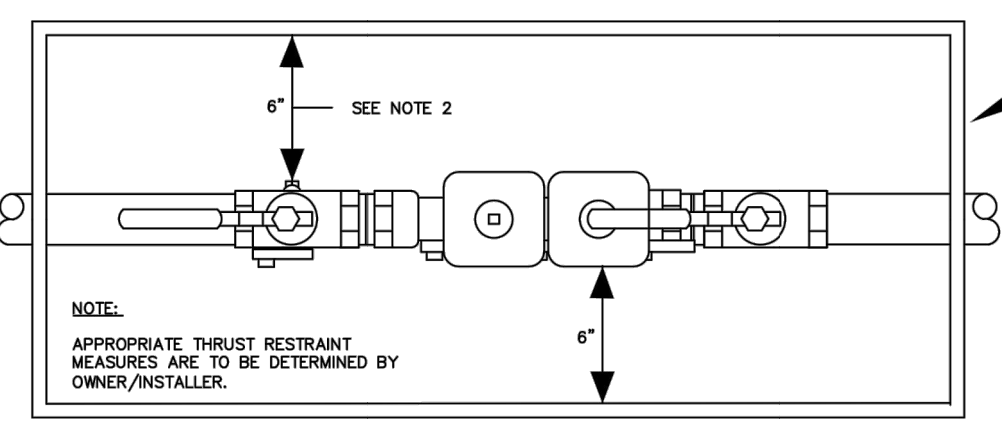
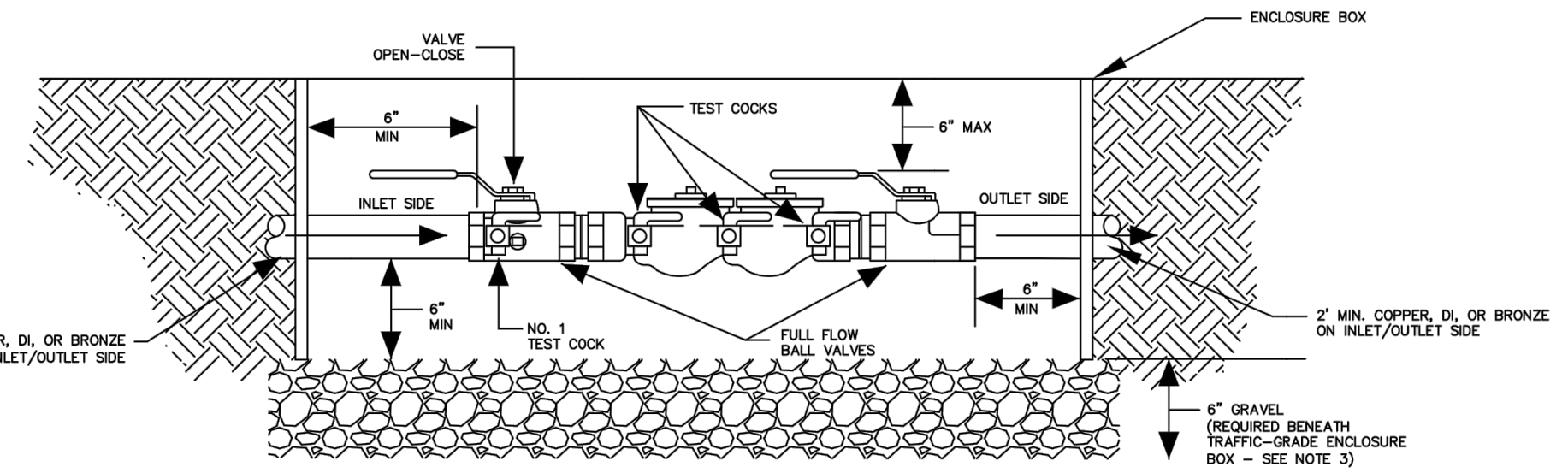
TYPICAL 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY ONLY BACKFLOW PREVENTION ASSEMBLY ABOVE GROUND INSTALLATION NOT TO SCALE

**Charleston Water System**

DOCUMENT NO.: EC-4.3.2-CD-W

DETAIL NO.: 31

REVISION DATE: NOV 1, 2015



**SW SEAMONWHITESIDE**

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GREENVILLE, SC 864.298.0534

SUMMERVILLE, SC 843.972.0710

SPARTANBURG, SC 864.298.0534

CHARLOTTE, NC 980.312.5450

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SOUTH CAROLINA PROFESSIONAL ENGINEER

SEAMON, WHITESIDE & ASSOCIATES, INC.

No. C00472

STATE OF SOUTH CAROLINA

Professional Engineer

No. 20961

5/11/21

PK MEEB

**HANAHAN RECREATION COMPLEX**

CITY OF HANAHAN

HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867

DATE: 06/12/20

DRAWN BY: BET

CHECKED BY: JRP

**REVISION HISTORY**

|   |          |
|---|----------|
| B | 10/29/20 |
| C | 01/22/21 |
| 0 | 03/11/21 |
| 1 | 03/26/21 |

WATER DETAILS



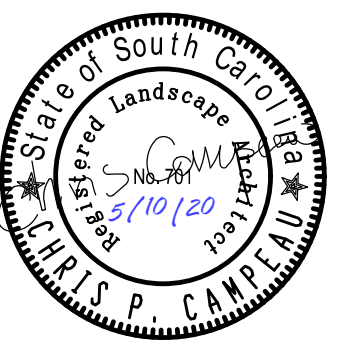
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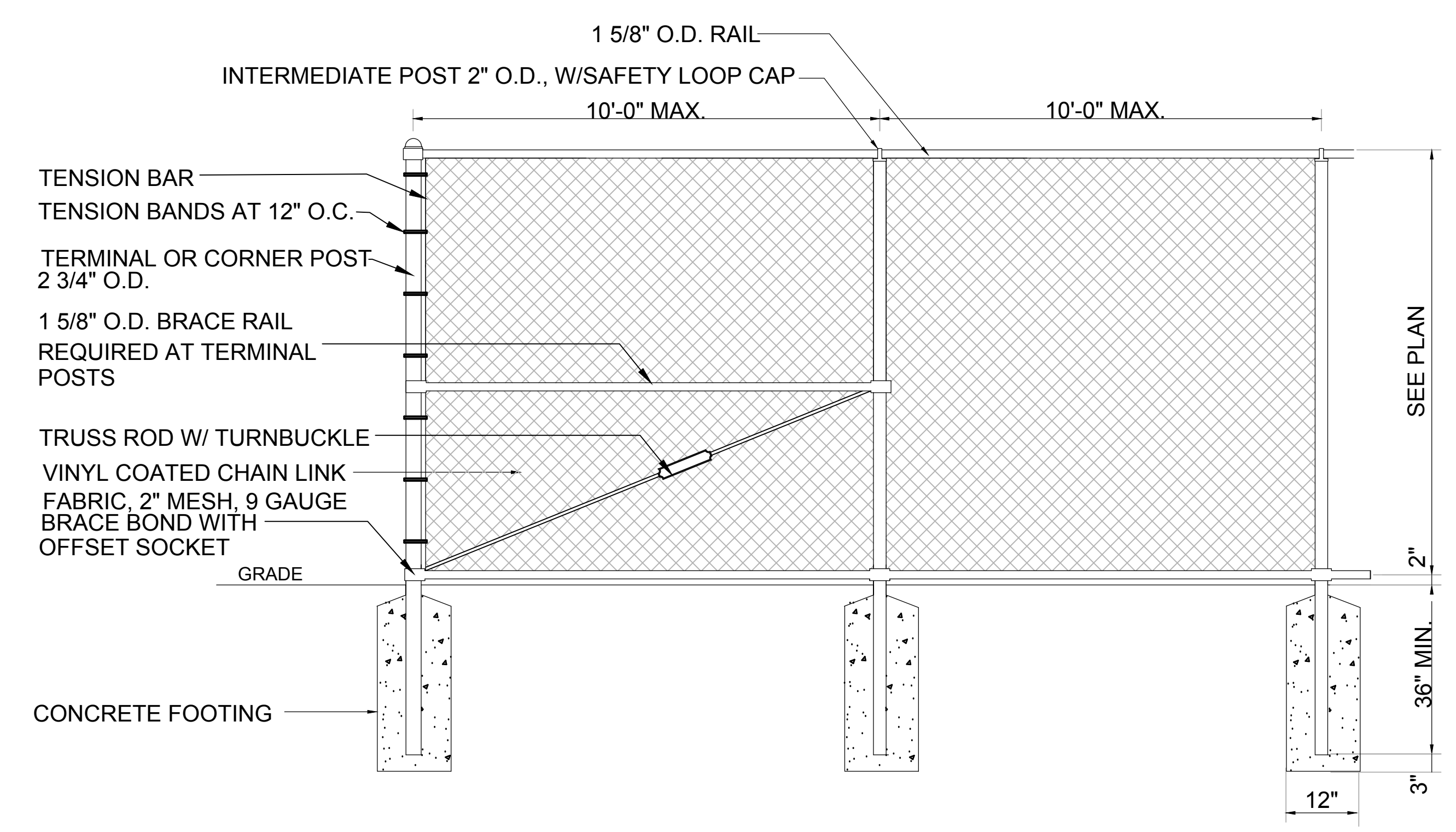
**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BAE  
CHECKED BY: CPC

REVISION HISTORY

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
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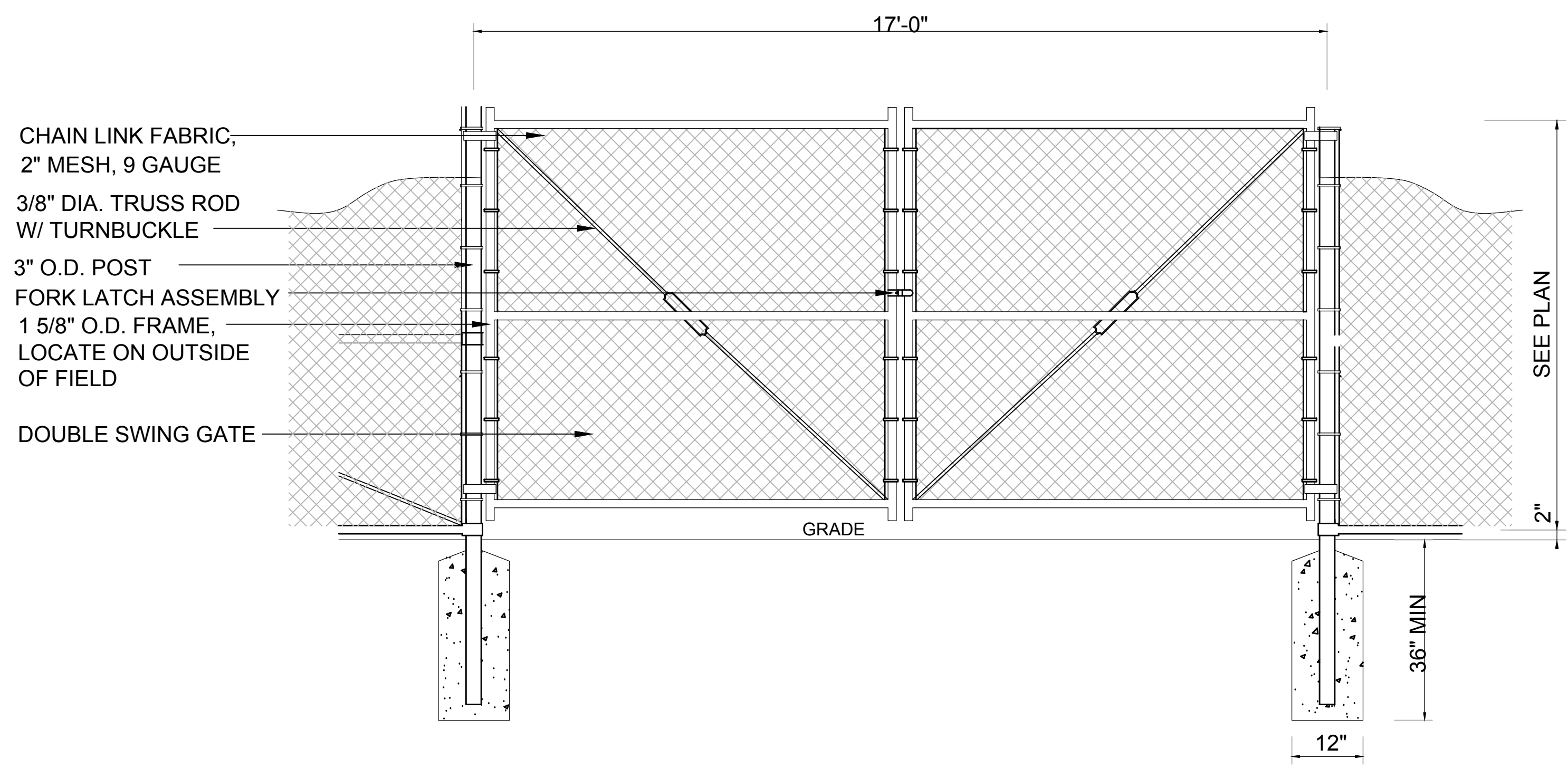
HARDSCAPE DETAILS



NOTES:  
1. ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

NTS

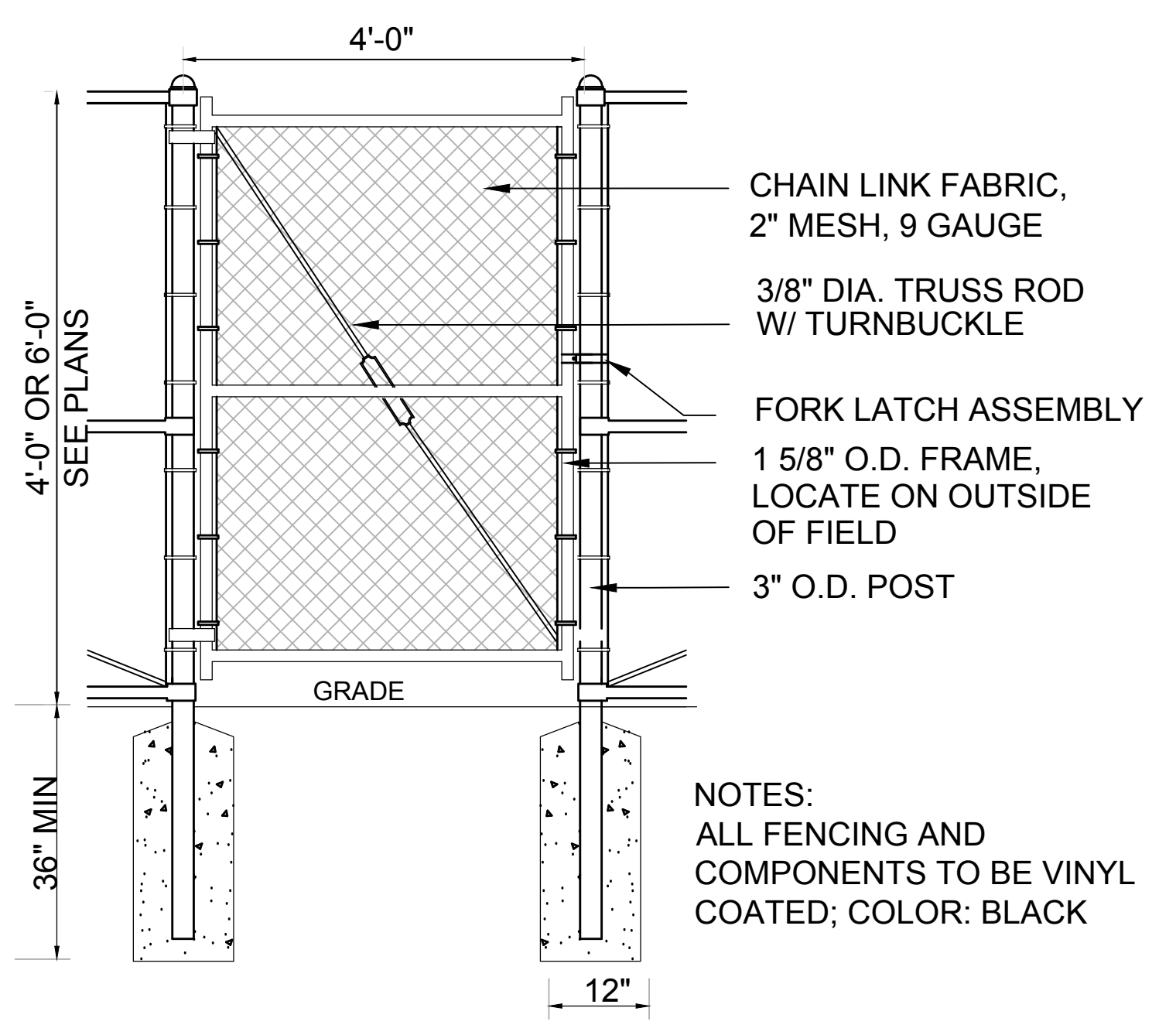
1 CHAIN LINK FENCE



NOTES:  
1. ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

NTS

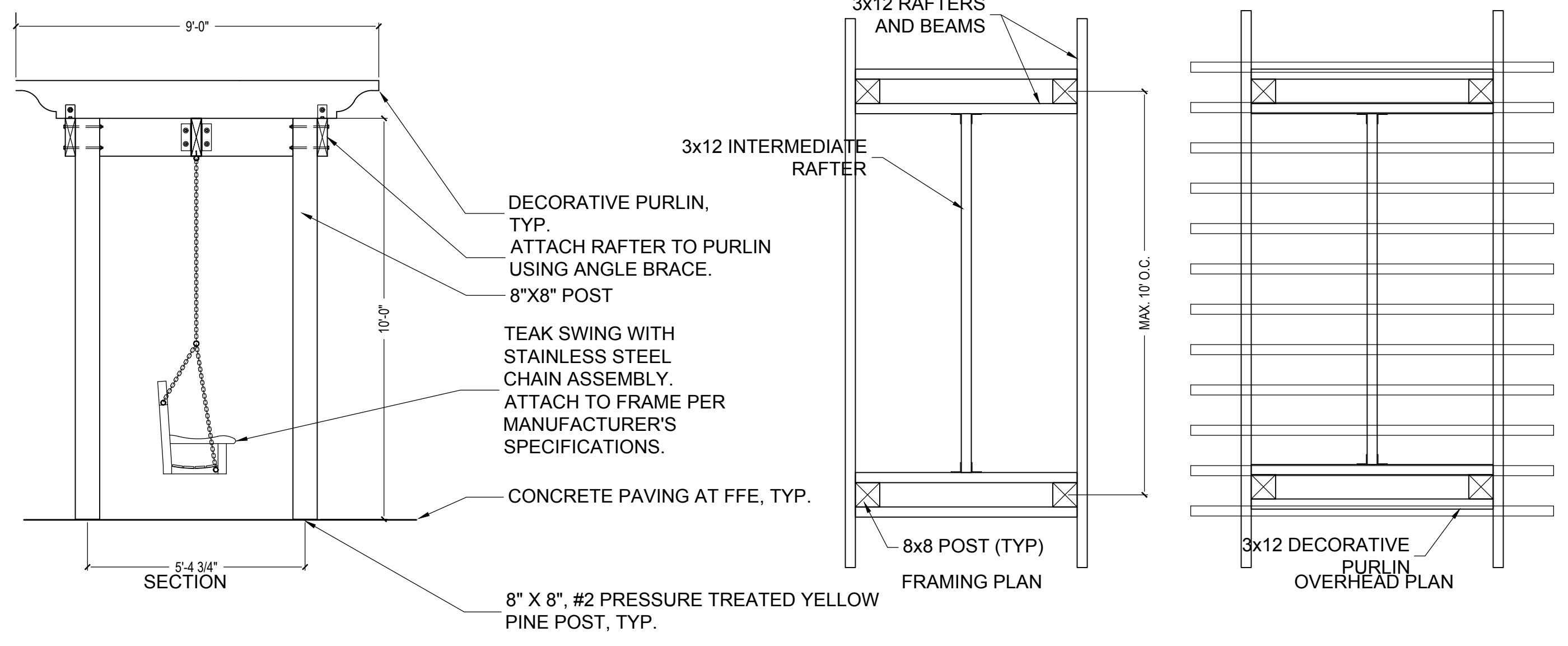
2 CHAIN LINK FENCE - 17' WIDE DOUBLE GATE



NOTES:  
ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

3 CHAIN LINK FENCE - 4' PEDESTRIAN GATE

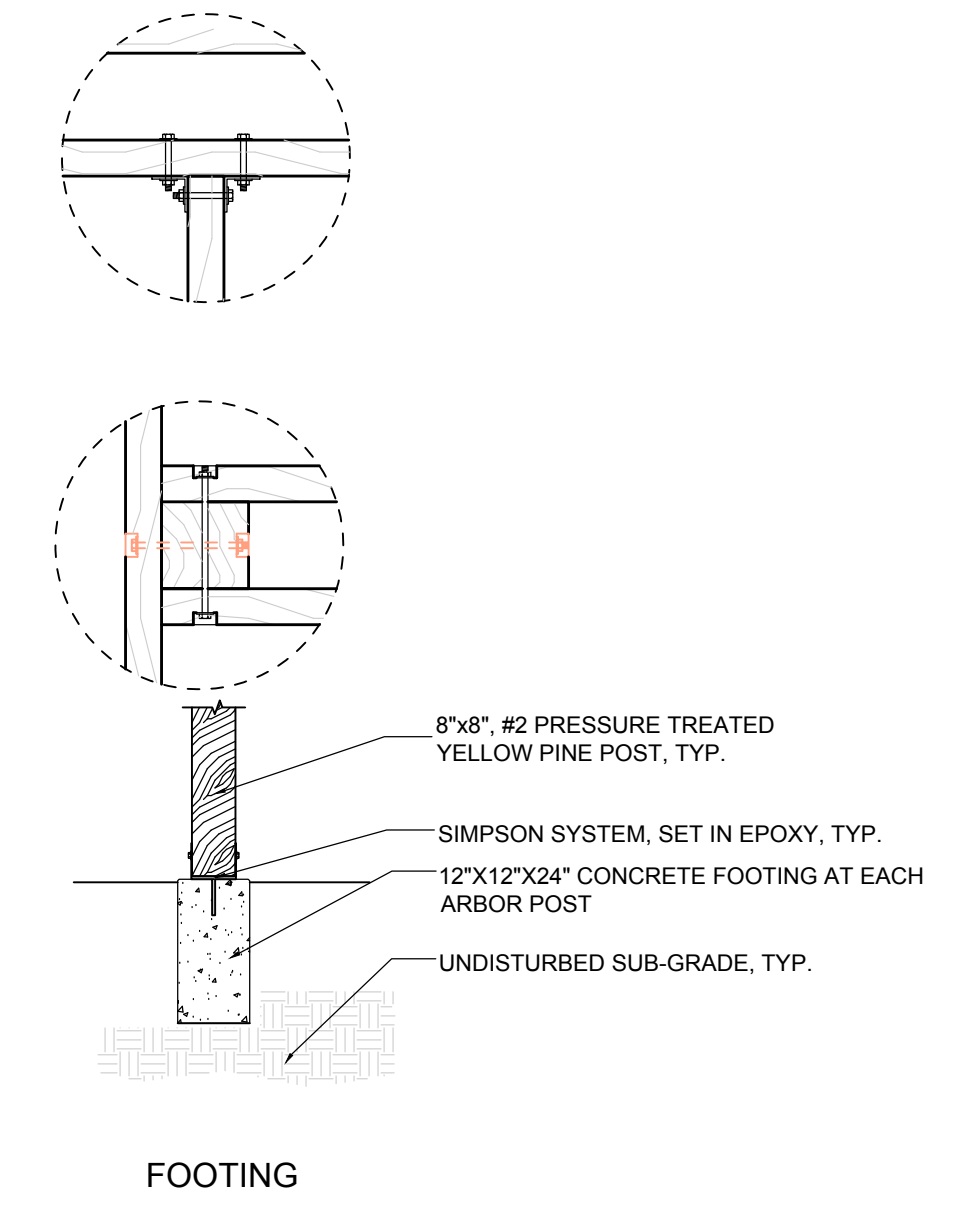
NOTES:  
1. ALL WOOD TO BE NO. 2 OR BETTER TREATED SOUTHERN YELLOW PINE. POSTS TO BE PRESSURE TREATED FOR GROUND CONTACT USE, OTHER UNITS FOR ABOVE GROUND USE.  
2. ALL HARDWARE AND FASTENERS TO BE STAINLESS STEEL, NAILS TO BE GALVANIZED SPIRAL DECKING NAILS.  
3. ALL WOOD TO HAVE NATURAL FINISH.  
4. LOCATION OF ARBORS TO BE DETERMINED. QUANTITY: 2  
5. SWING INFORMATION QUANTITY: 2  
MANUFACTURER: COUNTRY CASUAL  
STYLE: WINDERMERE 5' SWING  
FINISH: TEAK WATER AND STAIN GUARD



NTS

4 SWING ARBOR

NOTE:  
1. REFER TO LEGEND FOR MATERIAL COLOR & FINISH.  
2. ALL HARDWARE & FASTENERS TO BE STAINLESS STEEL.  
3. NAILS TO BE GALVANIZED SPIRAL DECKING NAILS.  
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY CLIENT & LANDSCAPE ARCHITECT.



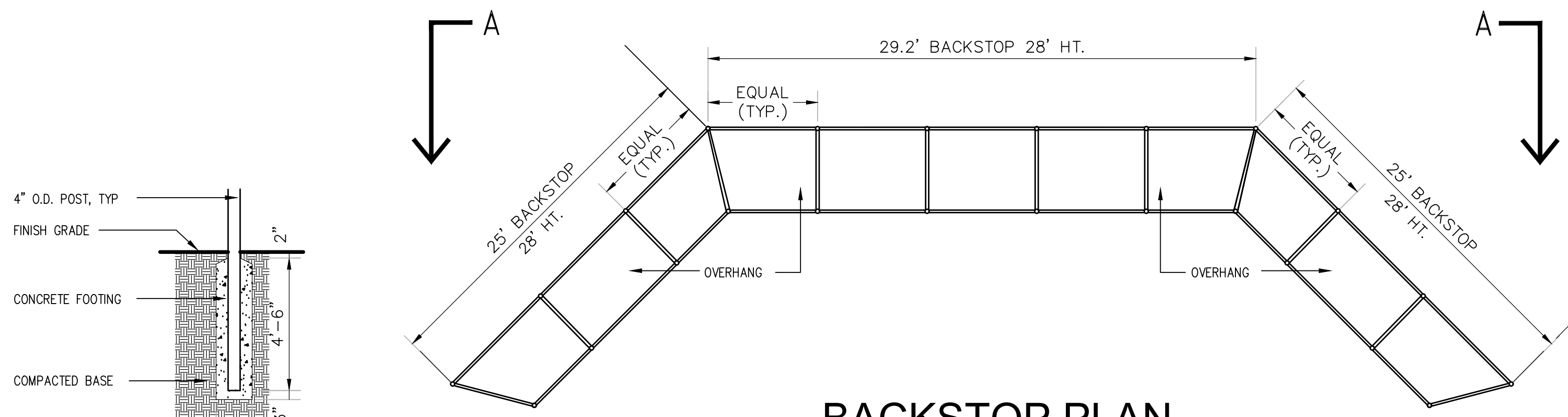
HARDSCAPE DETAILS



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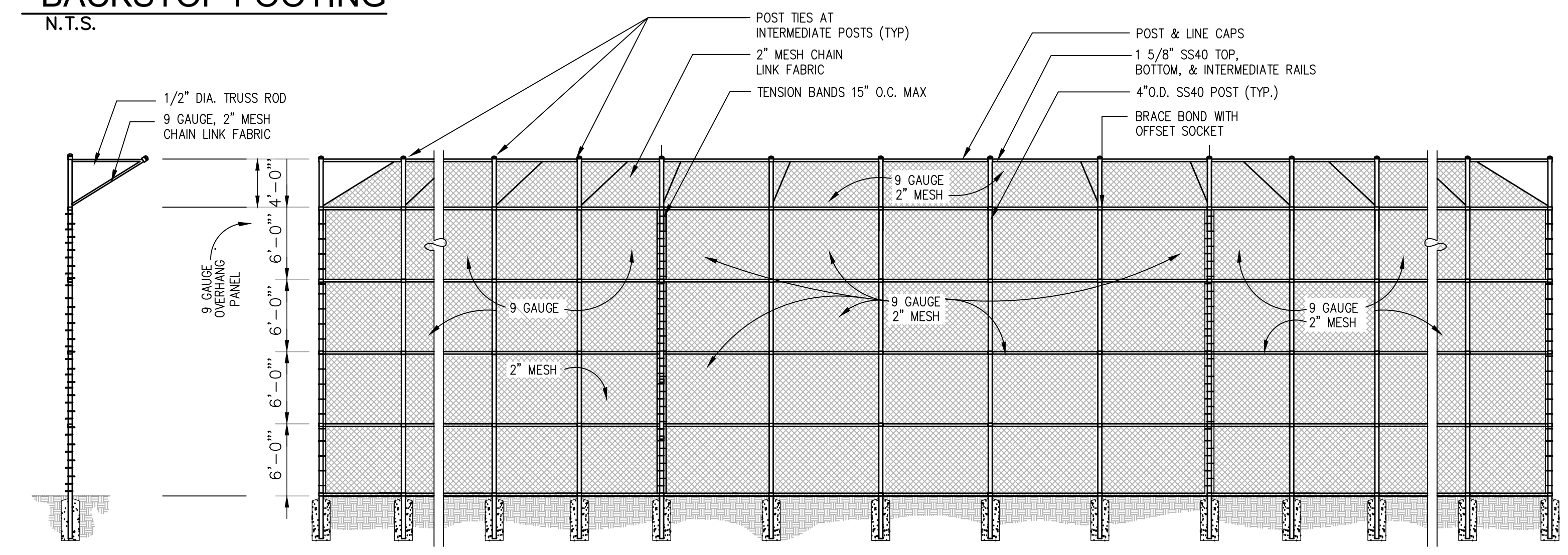
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**BACKSTOP PLAN**  
NOT TO SCALE

**NOTES:**  
1. POSTS & RAILS SHALL BE INSTALLED ON OUTSIDE OF BACKSTOP.  
2. ALL BACKSTOP POSTS SHALL BE 4" O.D.

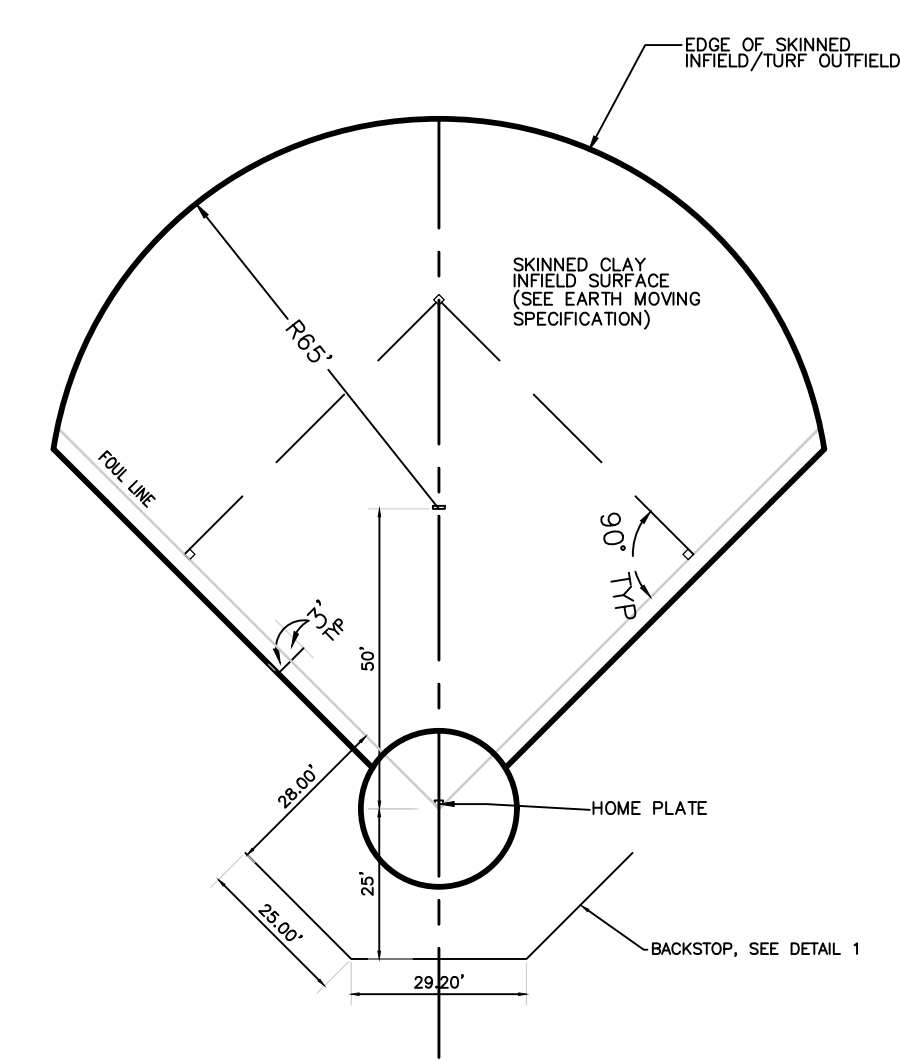
**BACKSTOP FOOTING**  
N.T.S.



**SECTION**  
NOT TO SCALE

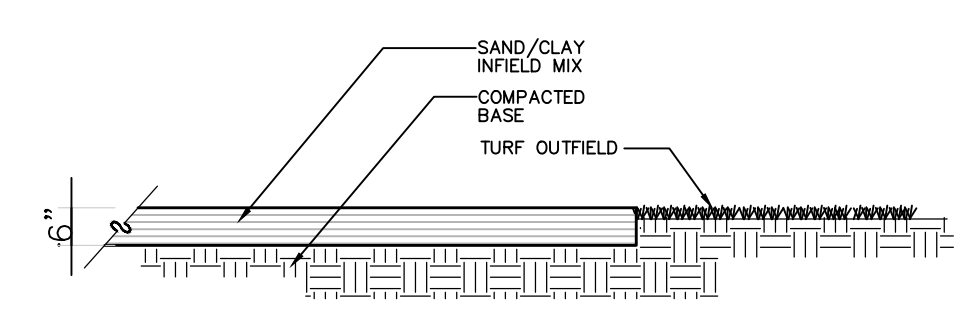
**ELEVATION AA**  
NOT TO SCALE

NTS



**INFIELD LAYOUT**  
SCALE: 1" = 20'

**NOTES:**  
1. FIELD MARKINGS NOT INCLUDED IN CONTRACT.



**EDGE OF SKINNED INFIELD / TURF OUTFIELD**  
NOT TO SCALE



**"DISABLED VIEWING AREA" SIGNAGE**  
NOT TO SCALE

**NOTES:**  
1. CONTRACTOR TO PROVIDE FIELD IDENTIFICATION SIGNS FOR ALL FIELDS. CONTRACTOR TO INSTALL SIGNS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AT LOCATIONS INDICATED ON PLANS.  
2. BOLT TO CORNER BACKSTOP POST.  
3. SIGN SHALL BE 18 GA. STEEL WITH BAKED ENAMEL FINISH.  
4. SIZE 12" X 12" BACKGROUND: WHITE LETTERS: BLUE BORDER: GREEN

NTS

**1 BASEBALL BACKSTOP**

**2 BASEBALL INFIELD DETAILS**

**MASTERS SERIES LAKWOOD**

| MODEL           | 1     | 2     | 3     | 4     | 5     | 6     |
|-----------------|-------|-------|-------|-------|-------|-------|
| WATERWAY        | 12000 | 15000 | 18000 | 21000 | 24000 | 27000 |
| FLOW RATE (GPM) | 1200  | 1500  | 1800  | 2100  | 2400  | 2700  |
| WATERWAY        | 12000 | 15000 | 18000 | 21000 | 24000 | 27000 |
| FLOW RATE (GPM) | 1200  | 1500  | 1800  | 2100  | 2400  | 2700  |
| WATERWAY        | 12000 | 15000 | 18000 | 21000 | 24000 | 27000 |
| FLOW RATE (GPM) | 1200  | 1500  | 1800  | 2100  | 2400  | 2700  |

**MASTERS SERIES DESIGN TYPES**

- 1-5 HP Masters Series Vertical Design (Min. Operating Depth - 4ft.)
- 7.5-10 HP Masters Series Cart Design

**MASTERS SERIES INSTALLATION**

**ANCHORING**

**MOORING**

**CONTROL PANEL**

**CONTROL PANEL COMPONENTS**

- Outdoor rated, backlit enclosure constructed of galvanized steel powder coated gray
- Standard enclosure size: 18" x 18" x 18" for 1-5 HP and 24" x 24" x 18" for 7.5-10 HP (18" x 24" x 18" for 7.5-10 HP)
- Overcurrent protection
- Ground fault protection
- Motor overcurrent and overload
- Capacitors (single phase only)
- Digital timers with battery backup
- LED lighting circuit included in all 1/2 HP and 3/4 HP
- Custom Control Panels for multiple units and options available

**MANUFACTURER:** AQUAMASTER  
16024 COUNTY RD X  
KIEL, WI 53042

**MODEL/STYLE:** MASTERS SERIES - LAKWOOD - VERTICAL DESIGN

**NOTES:** (1) HORSEPOWER  
240 VOLT 1-PHASE POWER

**INSTALLATION:** INSTALL PER MANUFACTURER'S INSTRUCTIONS

**QUANTITY:** 5 (AS SHOWN ON PLAN)

**CONTACT:** (800) 693-3144

**NOTE:** CONTRACTOR MAY SUBMIT AN ALTERNATE PRODUCT FOR REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

**3 POND FOUNTAIN**

NTS

**SW**  
SEAMONWHITESIDE

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SEAMON, WHITESIDE & ASSOCIATES, INC.  
Landscape Architecture  
No. 32  
STATE OF SOUTH CAROLINA  
LANDSCAPE ARCHITECTURE  
C. P. CAMPBELL  
2/10/20

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BAE  
CHECKED BY: CPC

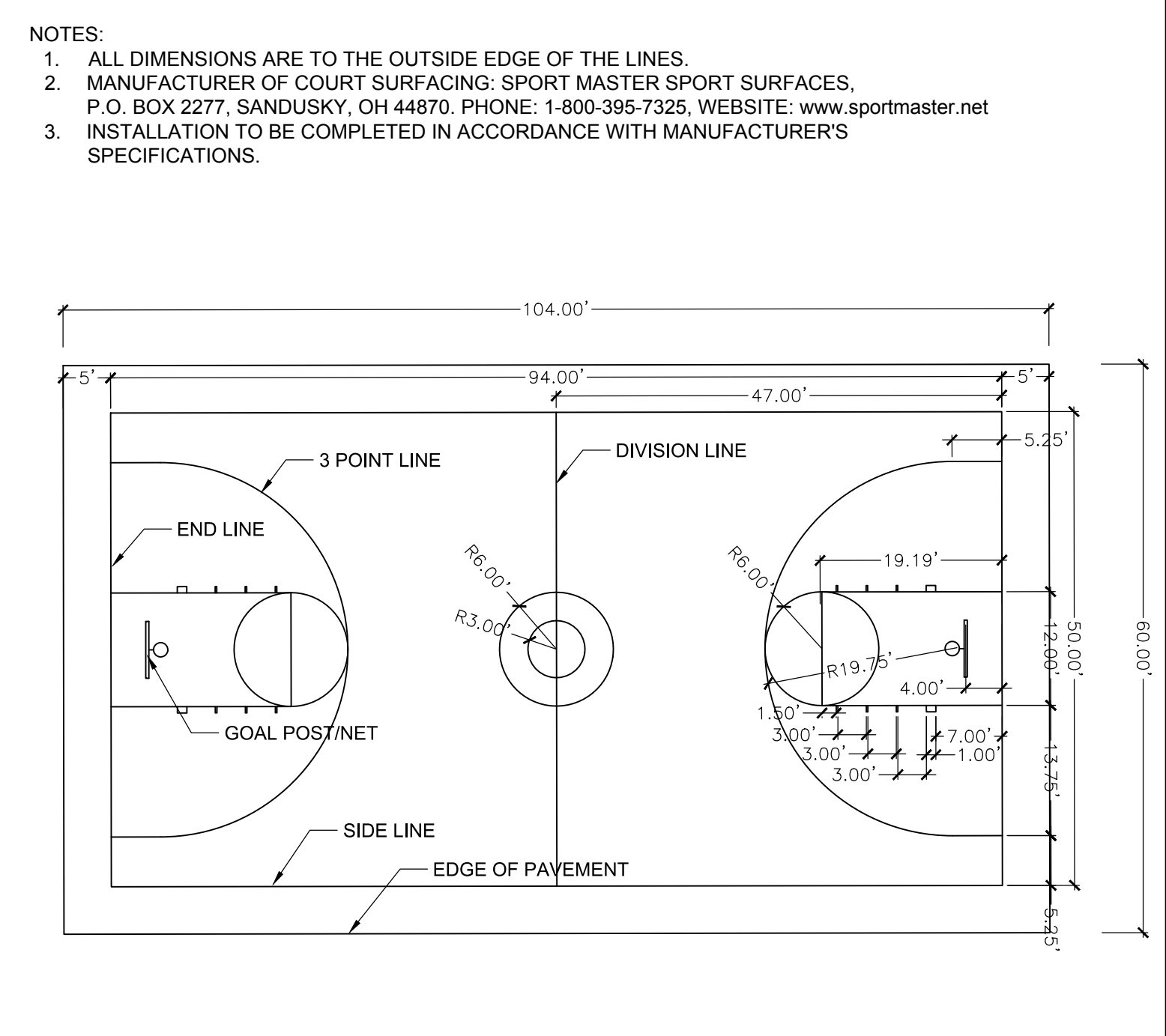
**REVISION HISTORY**

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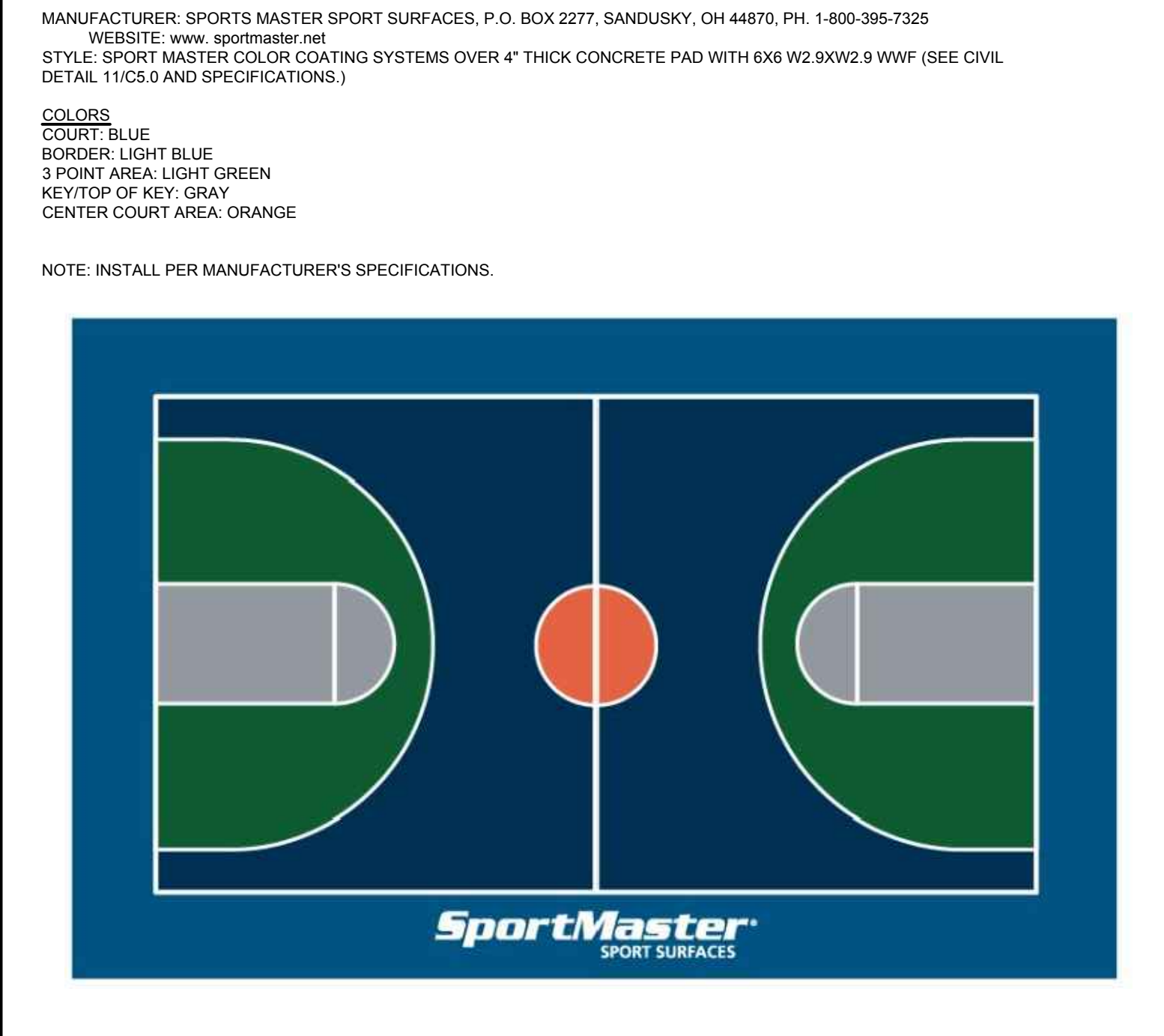
**HARDSCAPE DETAILS**



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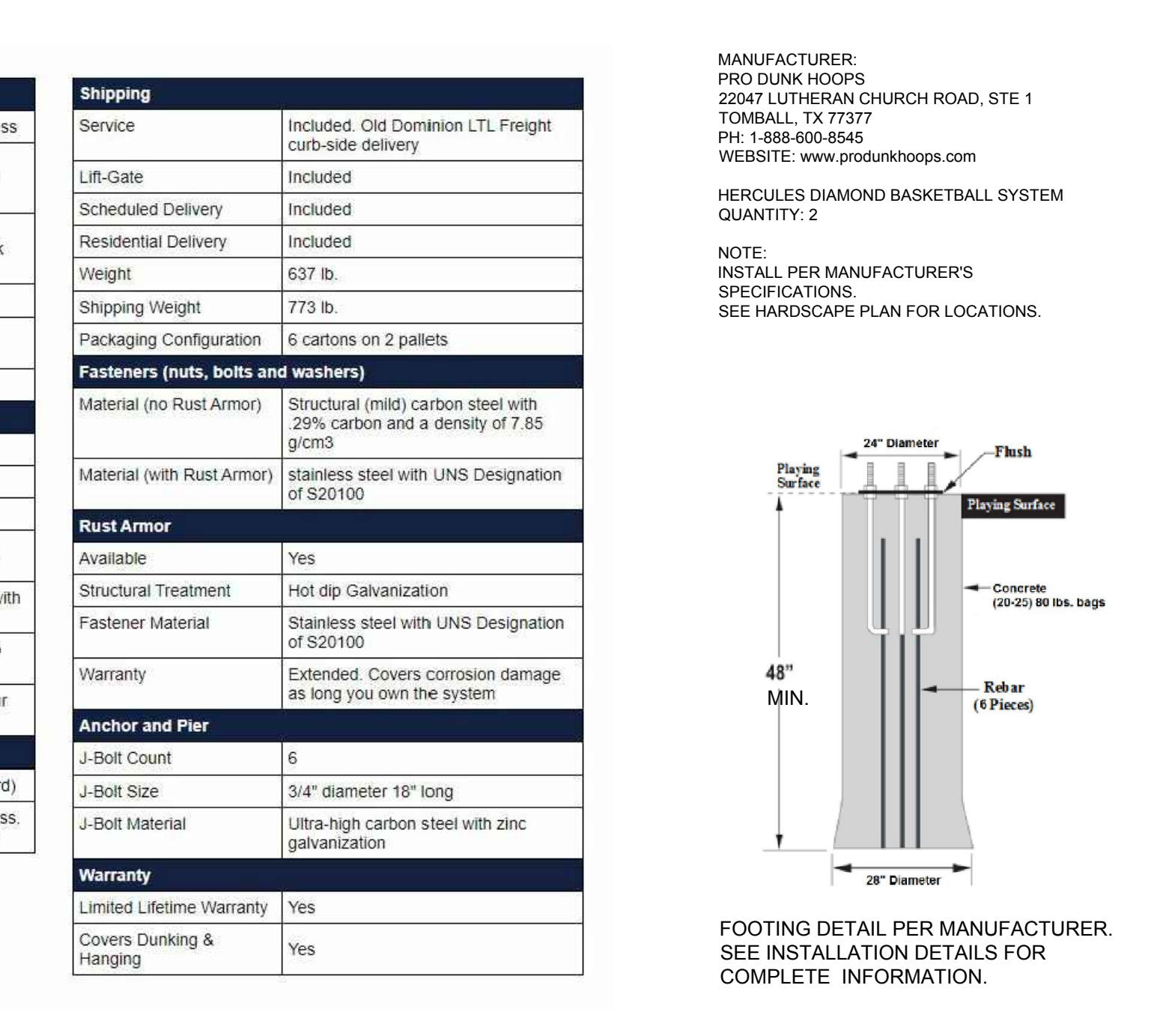
**1 BASKETBALL COURT DIMENSIONS** NTS



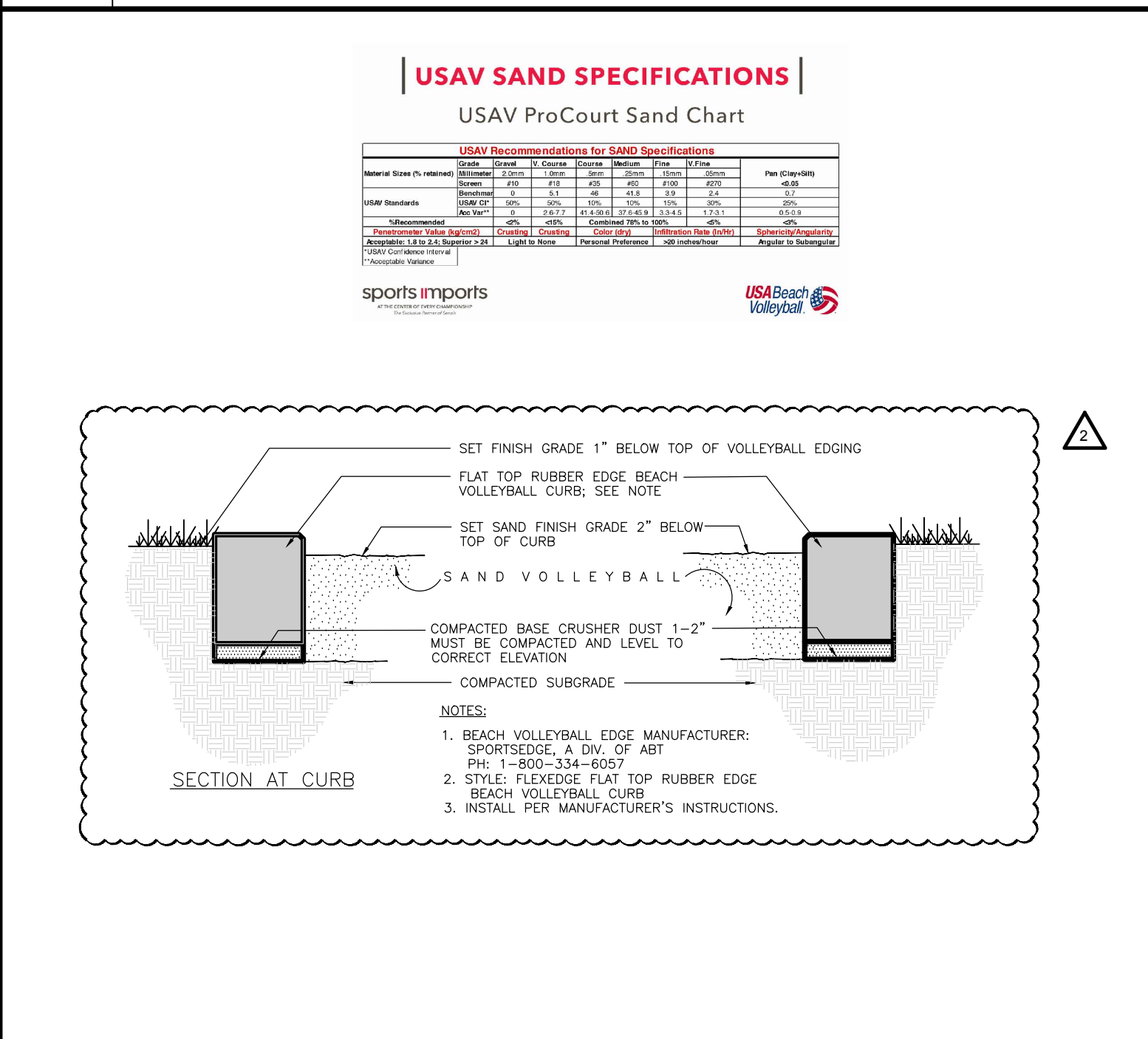
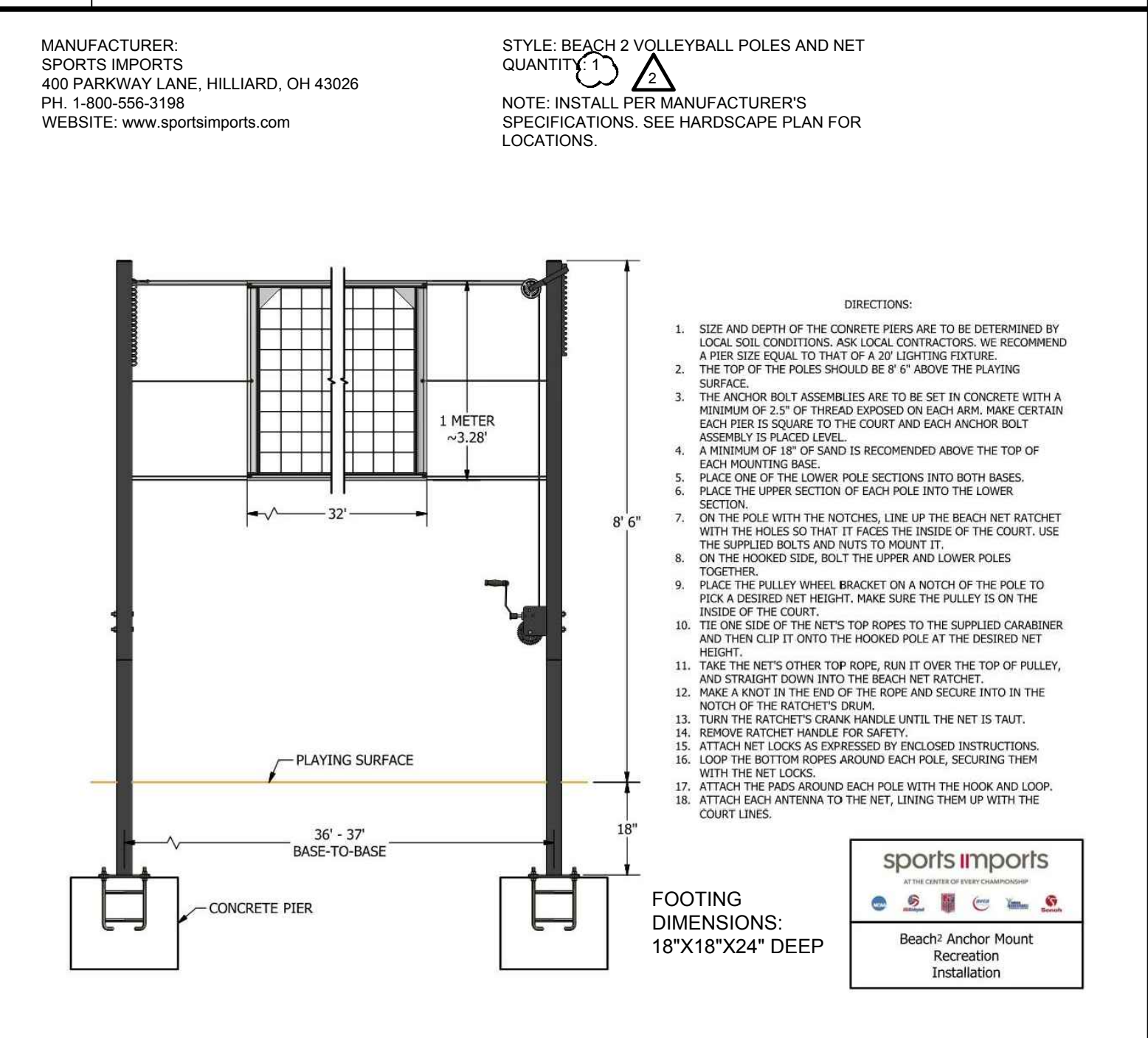
**2 COURT SURFACING** NTS



**3 BASKETBALL GOAL** NTS



**4 VOLLEYBALL NET** NTS

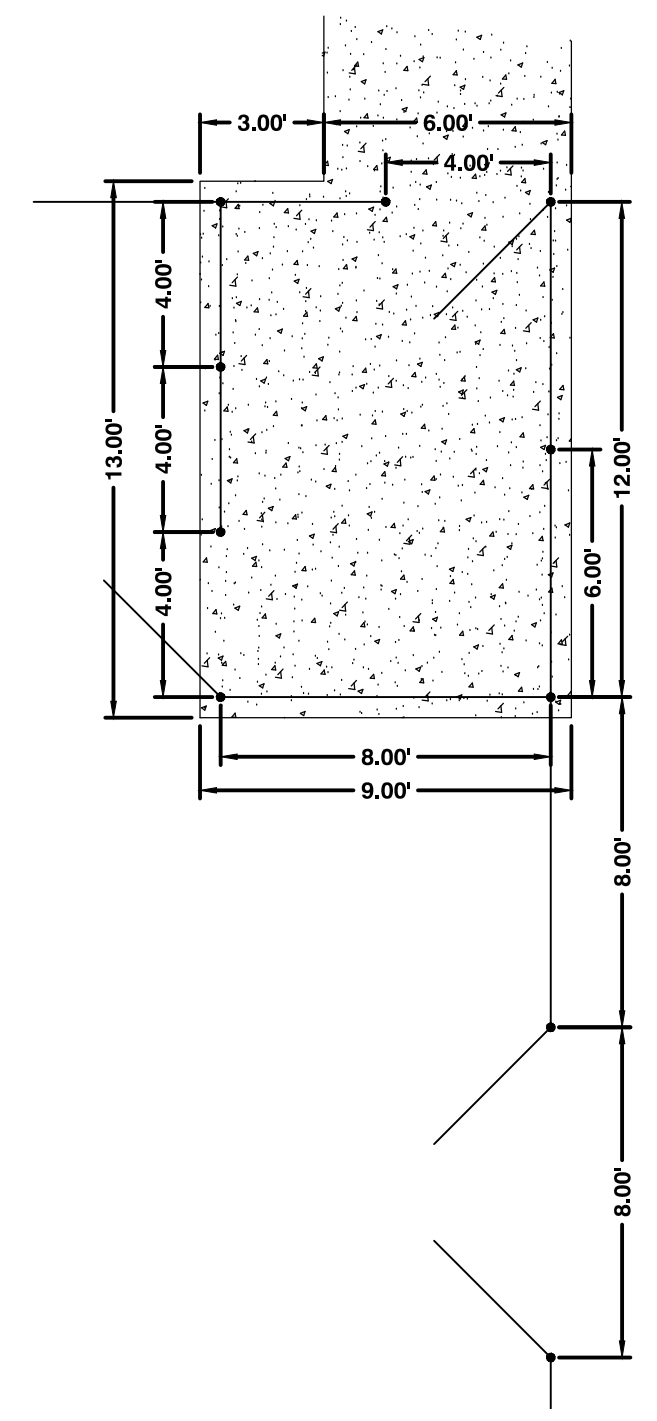




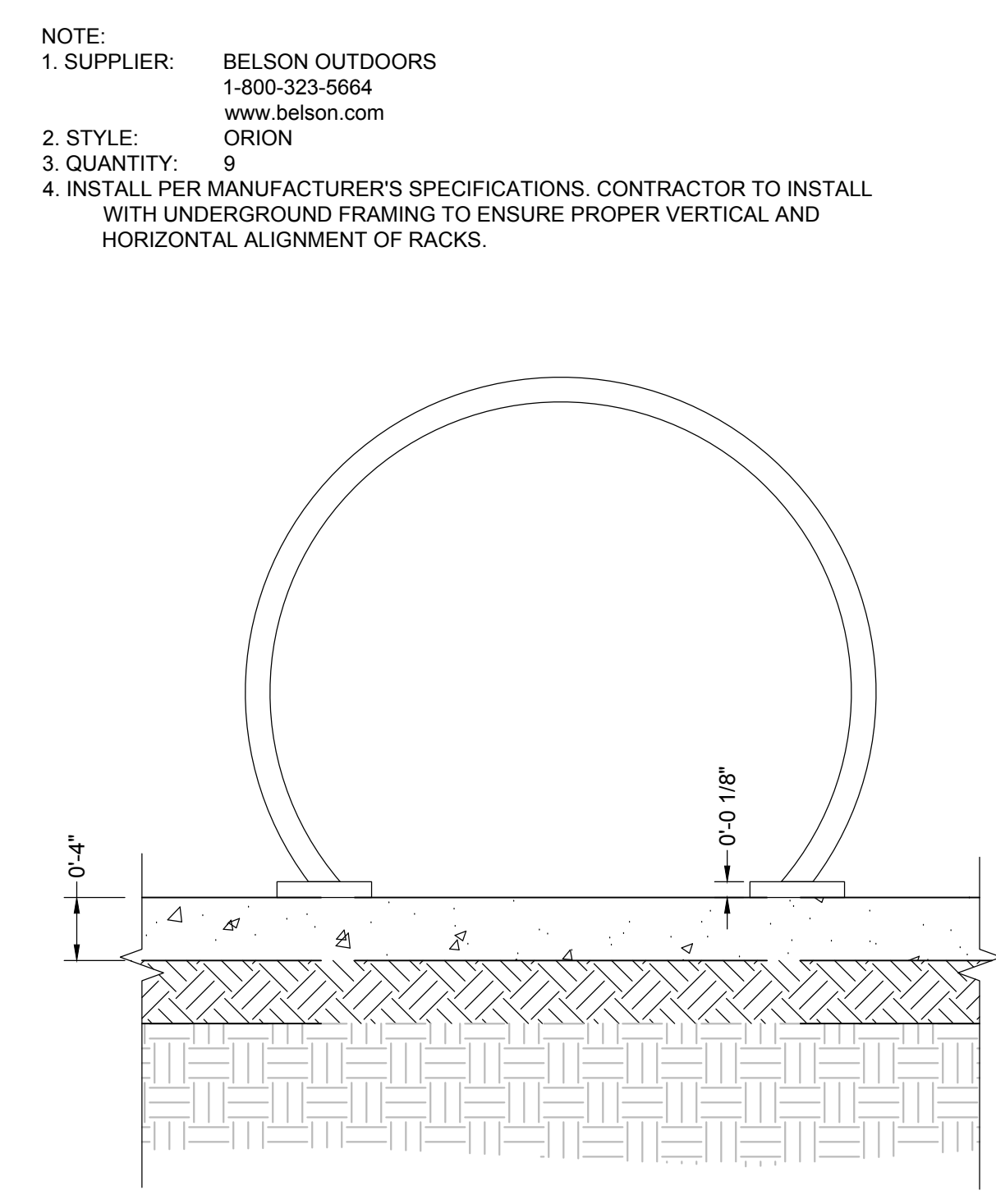
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- TIMBER FRAMING NOTES:**
- TIMBER SHALL BE NO. 1 SO. YELLOW PINE, AND SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION AND SHALL BEAR A STAMP INDICATING QUALITY AND TREATMENT.
  - ALL TIMBER MATERIALS SHALL BE NEW UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS.
  - CUT JOINTS ACCURATELY TO MAKE A NEAT, SNUG FIT. TOLERANCE SHALL BE  $\frac{1}{8}$ ".
  - REMOVE ANY STAINING FROM SOIL, OIL OR GREASE.
  - TIMBERS WITH A MODERATE BOW ARE PERMITTED WHERE THEIR INTENDED USE WILL STRAIGHTEN THEM. DO NOT USE SEVERELY BOWED TIMBERS OR TIMBERS BOWED IN MORE THAN ONE DIRECTION.
  - TIMBER CONSTRUCTION SHALL CONFORM TO NATIONAL DESIGN STANDARD FOR WOOD CONSTRUCTION, CURRENT EDITION.
  - ALL CUTS, HOLES, AND DAMAGE TO THE SURFACE OF TREATED WOOD SHALL BE FIELD TREATED WITH COPPER NAPHTHALATE (OR EQUAL.)

- HARDWARE NOTES:**
- ALL GALVANIZED BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED PER ASTM-153 WITH 20 OUNCES OF ZINC PER SQUARE FOOT.
  - ALL BOLTS SHALL BE EQUIPPED WITH WASHERS, LOCK WASHERS AND NUTS.
  - ALL WOOD SCREWS SHALL BE 316 STAINLESS STEEL.
  - ALL NAILS (IF USED) SHALL BE STAINLESS STEEL RING SHANK.
  - SET SCREW HEAD FLUSH WITH MEMBER TO BE CONNECTED AND DO NOT ALLOW TIP OR THREADS TO PROTRUDE.
  - ROUND OVER (EASE EDGE) ALL HANDRAIL COMPONENTS.



**1 DOG PARK ENTRY** NTS



**2 BIKE RACK** NTS



**MANUFACTURER:** BERNTSEN  
P.O. BOX 8670  
MADISON, WI 53708-8670  
1-877-643-2269

**MODEL/STYLE:** C4FB-P  
**SIZE:** 4"  
**COLOR:** BRONZE  
**INSTALLATION:** IN-GROUND MOUNT INSTALLATION PER MANUFACTURER'S INSTRUCTIONS REFER TO LABELS ON PLAN FOR INDIVIDUAL MILE MARKER DISTANCE

**NOTE:**

**QUANTITY:** 6

**3 METAL TRAIL MARKER** NTS



**PRODUCT:** PET STATION DOG WASTE DISPOSAL  
**MODEL NUMBER:** DOG1003-L  
**DESCRIPTION:** STURDY ALUMINUM, 400-BAG CAPACITY DISPENSER SET INCLUDES

- \* TWO 200-BAG ROLLS
- \* HINGED, LOCKING FRONT ACCESS PANEL
- \* CLEARLY POSTED INSTRUCTIONS

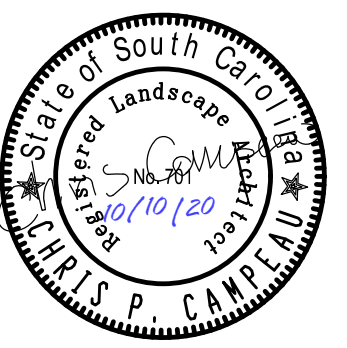
10 GAL. STEEL TRASH RECEPTACLE WITH LID  
4'-8" TELESCOPING SQUARE POST WITH HARDWARE  
50 LDPE TRASH BAGS  
EYE-CATCHING 12" X 18" ALUMINUM PET WASTE SIGN TO ENCOURAGE RESPONSIBLE BEHAVIOR  
**QUANTITY:** 2 (LOCATION TO BE DETERMINED)  
WWW.BARCOPRODUCTS.COM  
PHONE #: 1-800-338-2697

**5 PET WASTE STATION** NTS

DETAILS DELETED



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CHARLOTTE, NC 980.312.5450  
WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BAE  
CHECKED BY: CPC

**REVISION HISTORY**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 6   | 10/11/21 |             |

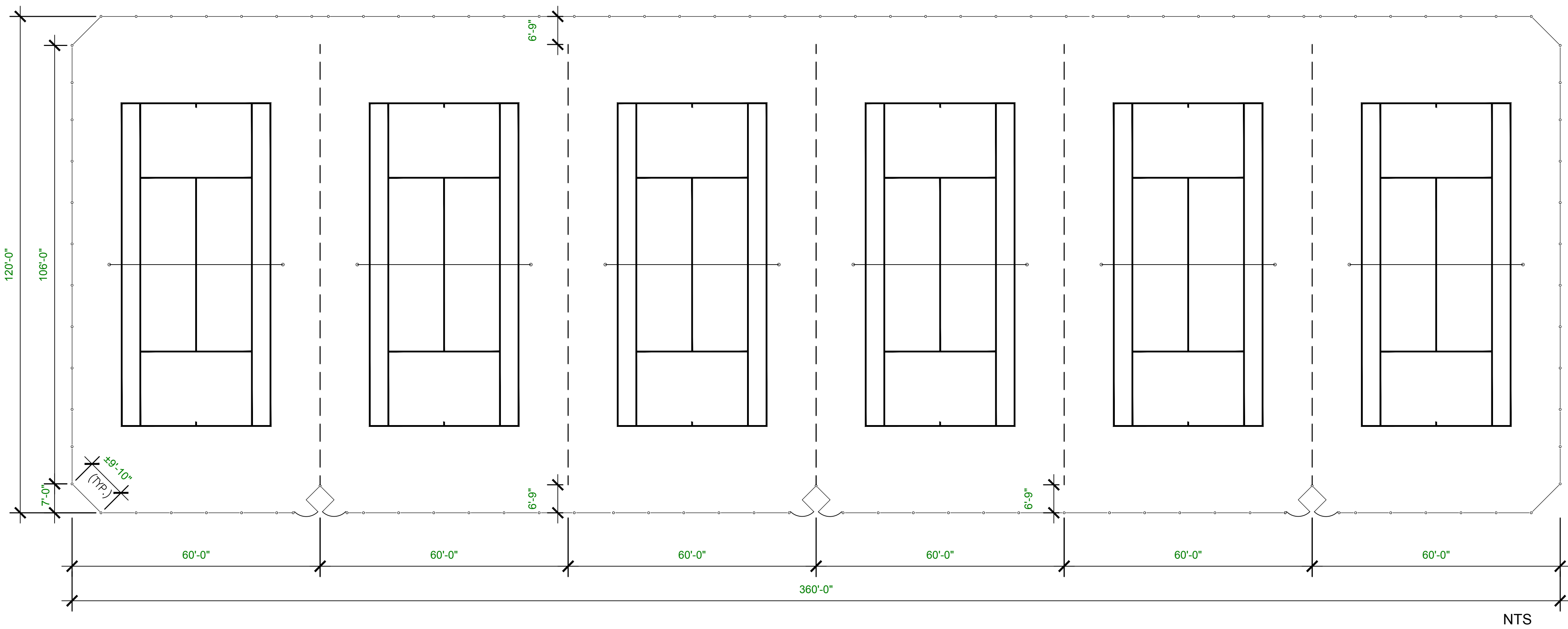
**HARDSCAPE DETAILS**



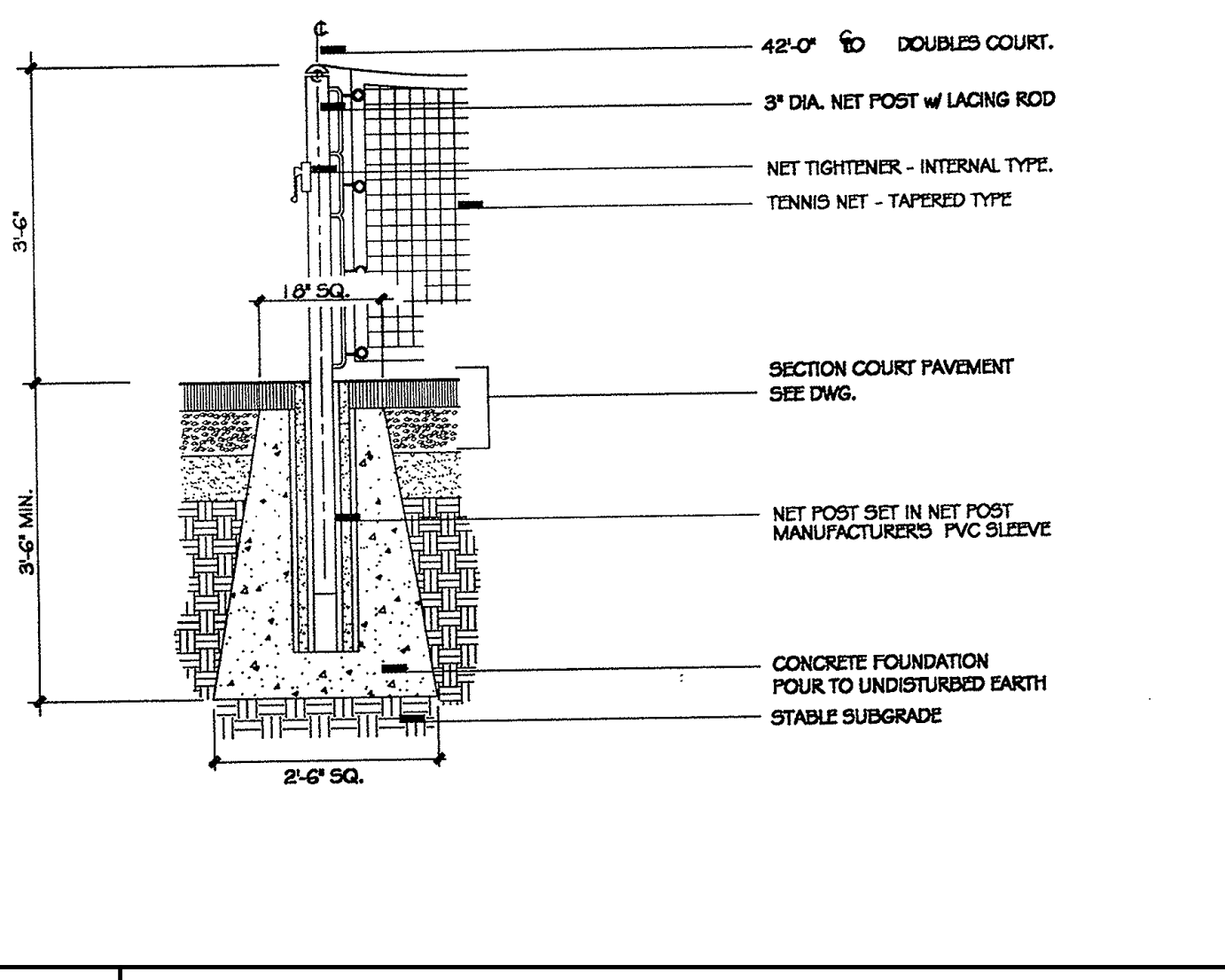
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**1 TENNIS LAYOUT PLAN** NTS

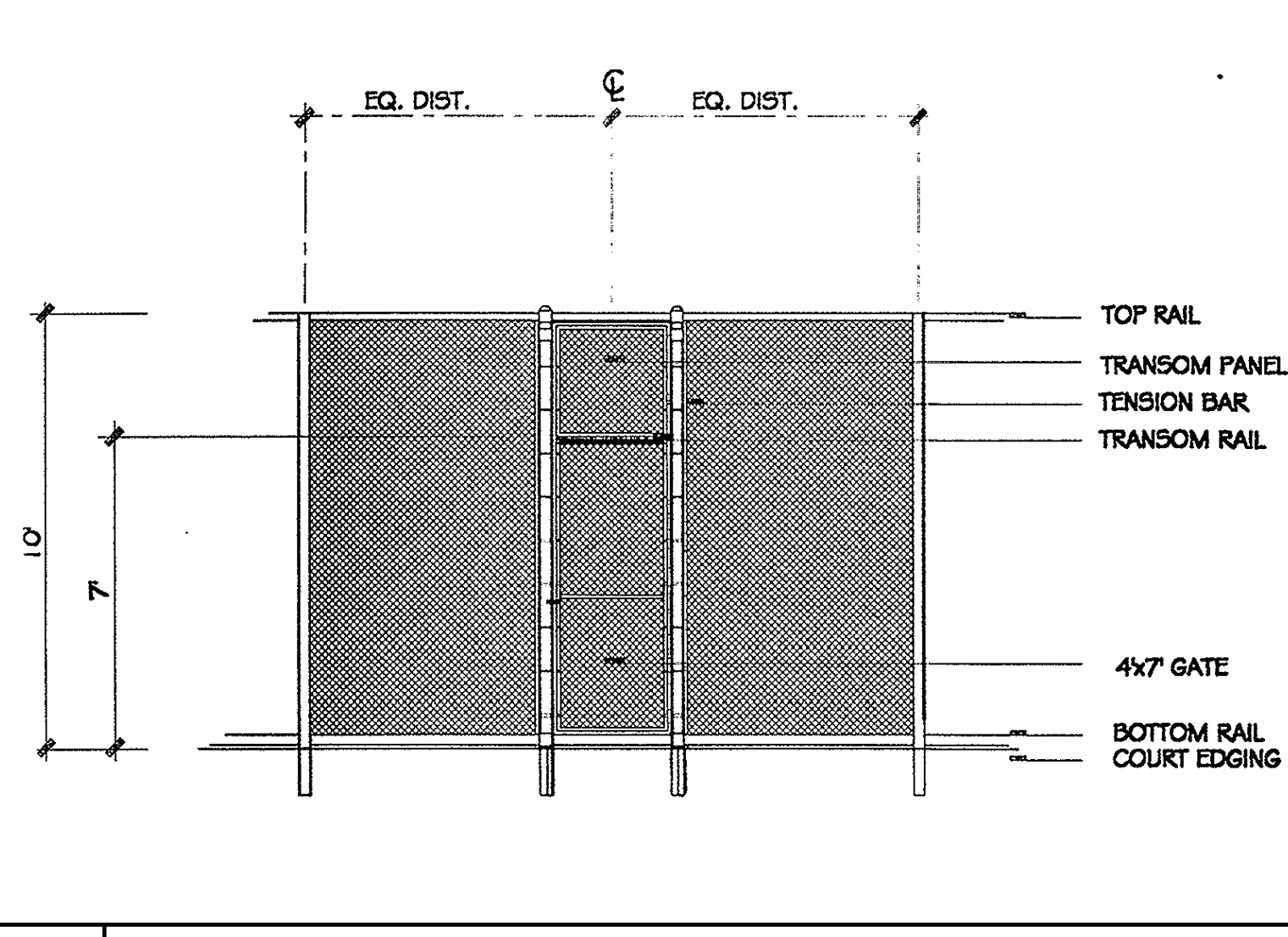


| MATERIAL SCHEDULE             | 10' HT.   | POST FOUNDATION MINIMUM DIAMETER |
|-------------------------------|---|----------------------------------|
| CORNER, GATE & TERMINAL POSTS | 3"Ø   | 12"                              |
| LINE POSTS                    | 2-1/2"Ø   | 10"                              |
| TOP AND BOTTOM RAILS          | 1-5/8"Ø   | 10"                              |
| GATE FRAMES                   | 2"Ø   |                                  |
| FENCE FABRIC                  | 1 1/2" SQUARE #9 GAUGE CORE BONDED VINYL COATED |                                  |

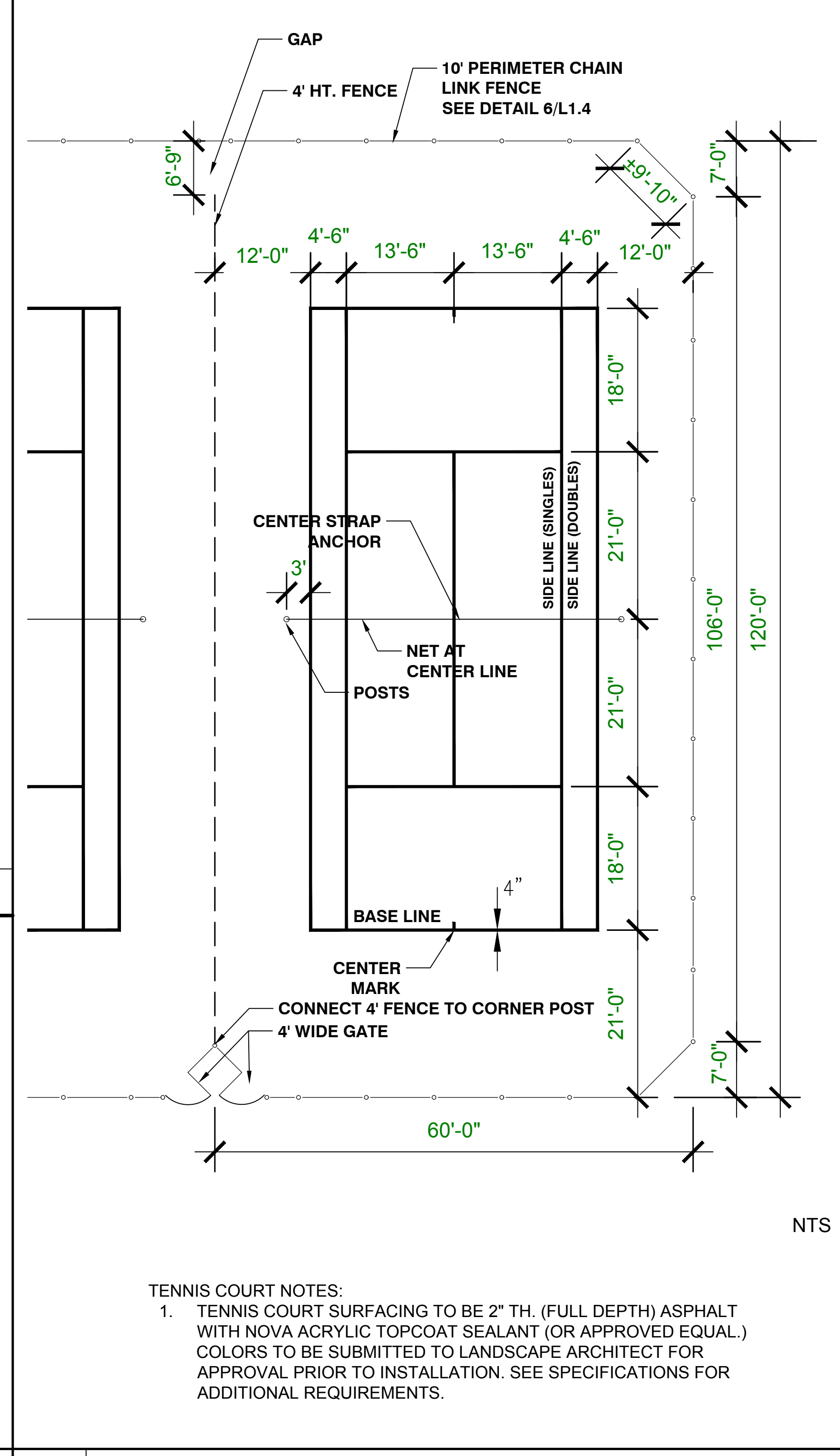
NOTES:  
 1. ALL FENCE FRAME MATERIALS SHALL BE SCH40 VINYL COATED.  
 2. FENCE COLOR SHALL BE BLACK.  
 3. FENCE FABRIC TO BE 1/2" ABOVE ASPHALT PAVEMENT  
 4. FENCE FABRIC TO BE UNIFORM 1/2 DIAMOND ABOVE CENTERLINE OF TOP RAIL (LOWER RAIL IN DOUBLE RAIL AREAS).  
 5. ALL CORNER, GATE AND TERMINAL POSTS TO BE CUT TO EXTEND UNIFORMLY 2" ABOVE THE TOP RAIL.  
 6. ALL TIE WIRE SHALL BE 9 GAUGE CORE x 8-1/2" VINYL CLAD ALUMINUM WIRE.  
 7. SPACING OF TIE WIRES SHALL BE 15 INCHES ON THE RAILS, 12 INCHES ON THE POSTS. ENDS SHALL BE WOUND IN A TELEGRAPH TWIST 2-1/2 TURNS.  
 8. FENCE POST FOUNDATIONS TO BE 40" DEEP WITH 36" PIPE INSERTION.  
 9. PROVIDE ALL FENCE POSTS IN PVC SLEEVES TO ALLOW FOR FENCE REMOVAL.  
 10. INSTALL FENCE FABRIC ON COURT SIDE OF POSTS  
 11. PROVIDE WINDSCREENS TO BE 6" CLOSED MESH SCREEN VIPOL MATRIX 10 OZ. MATERIAL, TUFFY BRAND OR APPROVED ALTERNATE.

**2 TENNIS COURT NET POST FOUNDATION DETAIL** NTS

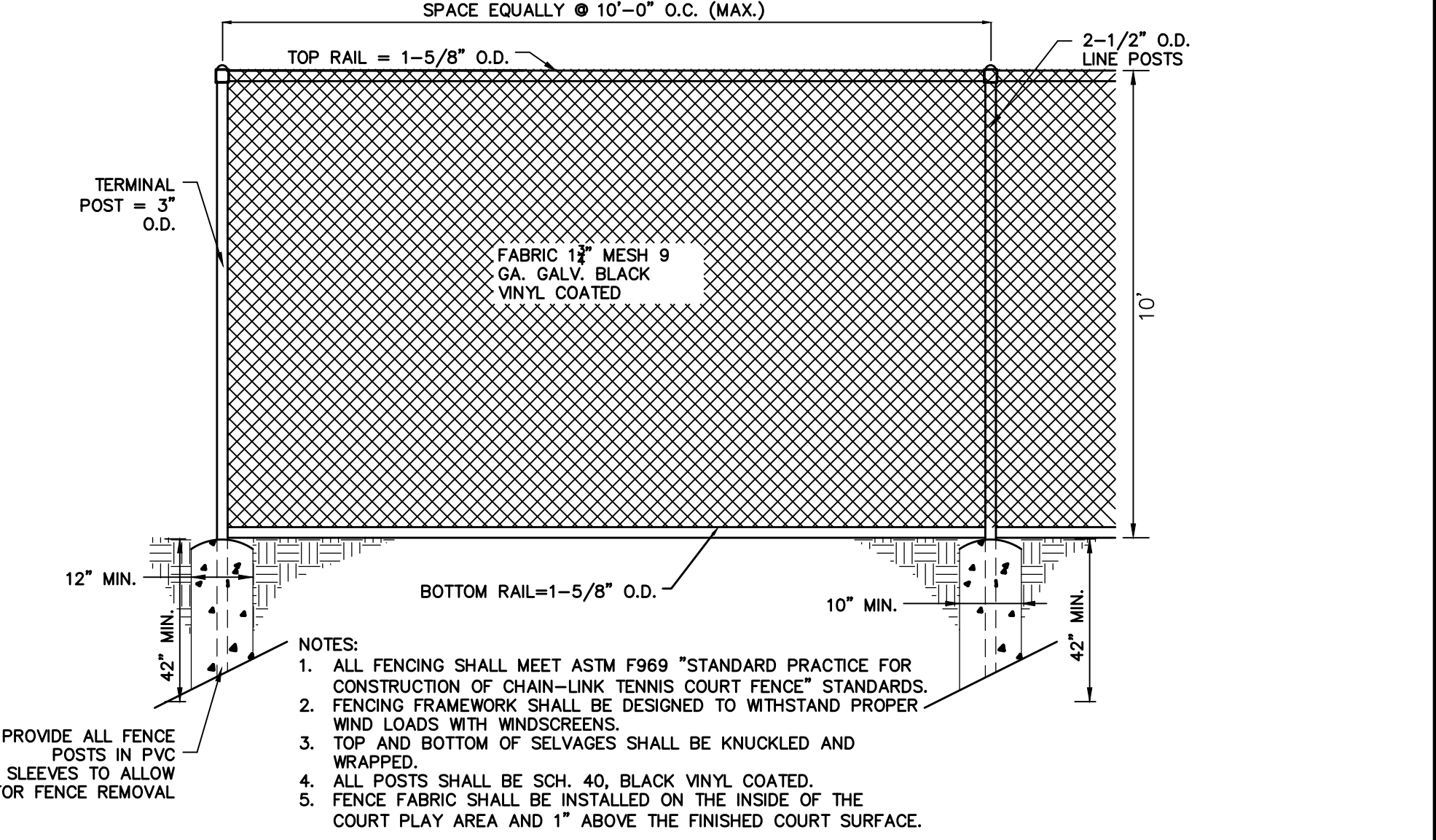
**3 TENNIS COURT FENCE TECHNICAL DATA** NTS



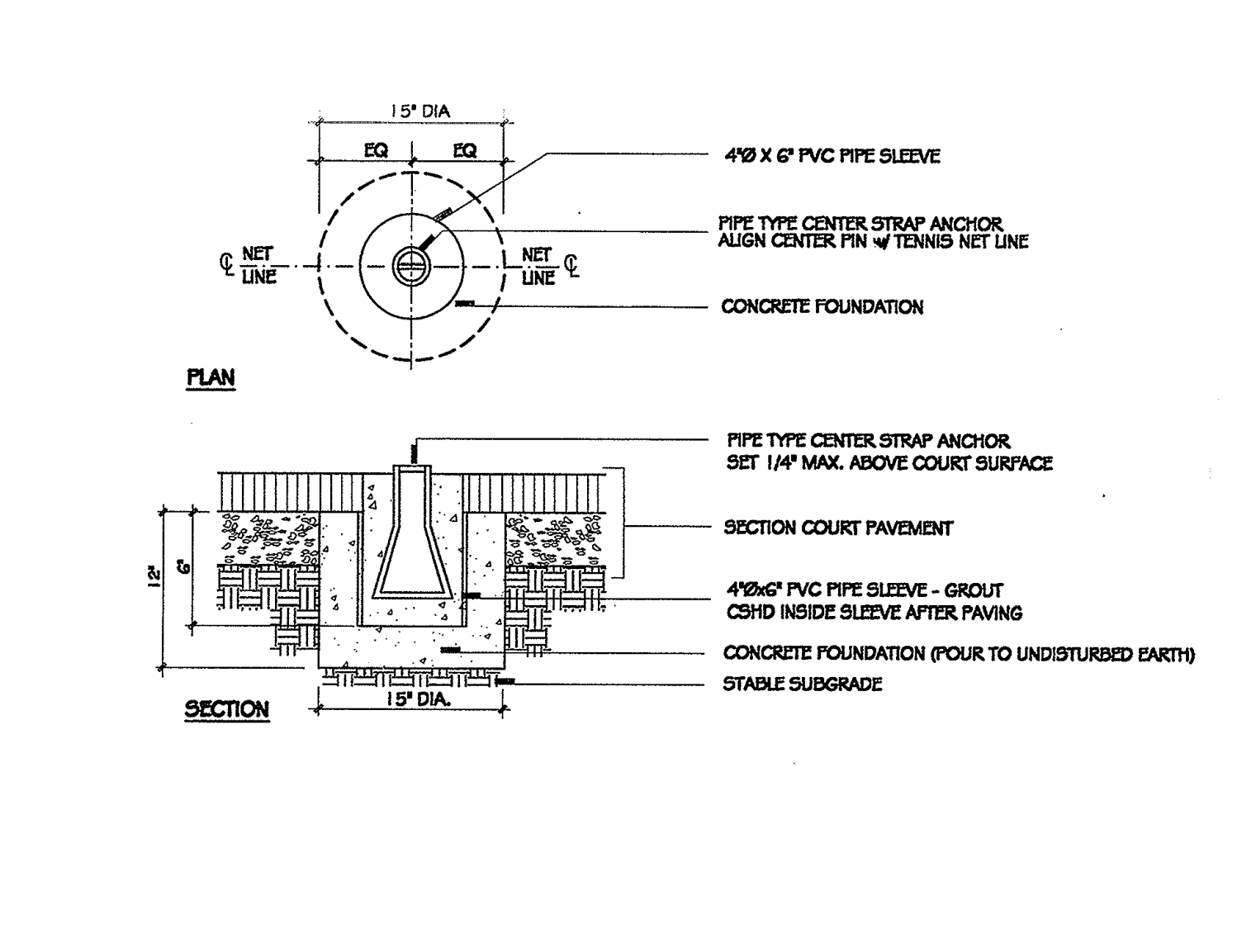
**4 TENNIS/BASKETBALL COURT PEDESTRIAN GATE** NTS



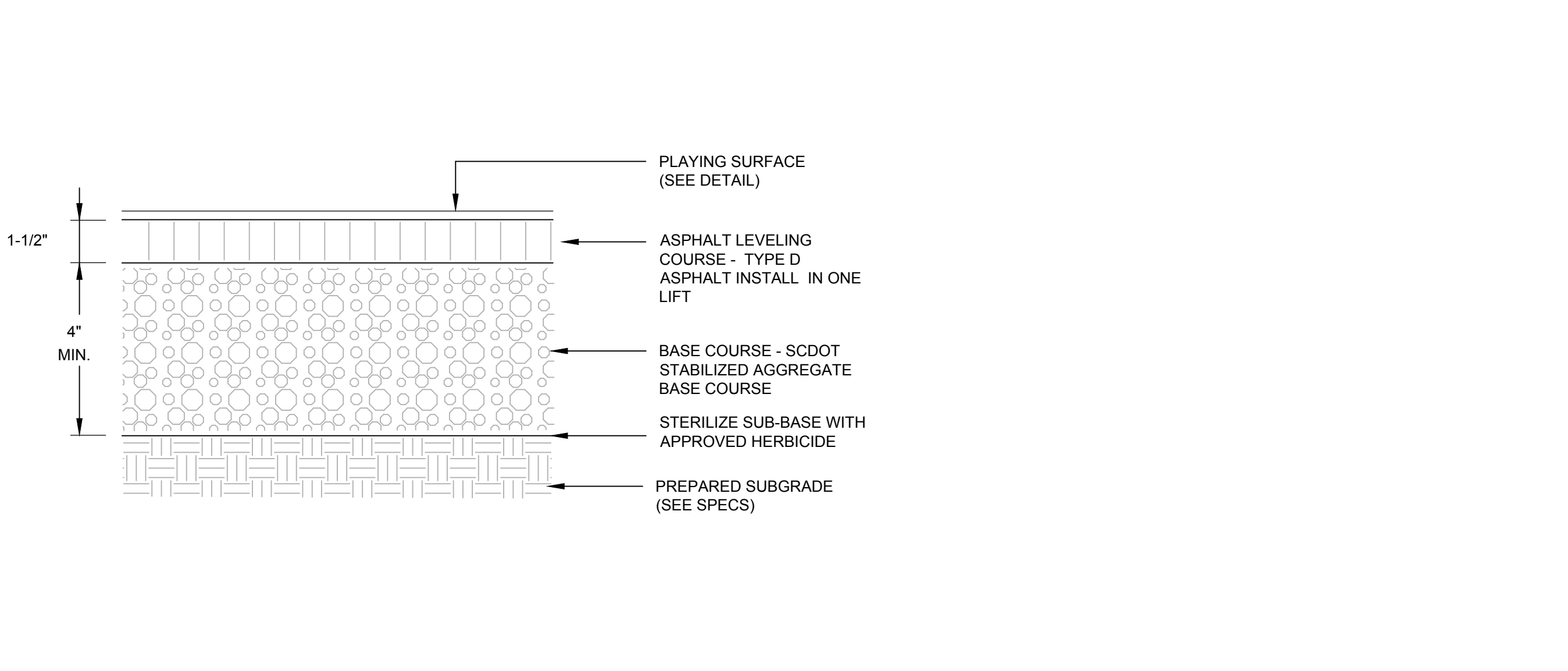
**5 TENNIS COURT LAYOUT PLAN** NTS



**6 TENNIS AND BASKETBALL COURT FENCE (10' HIGH)** NTS



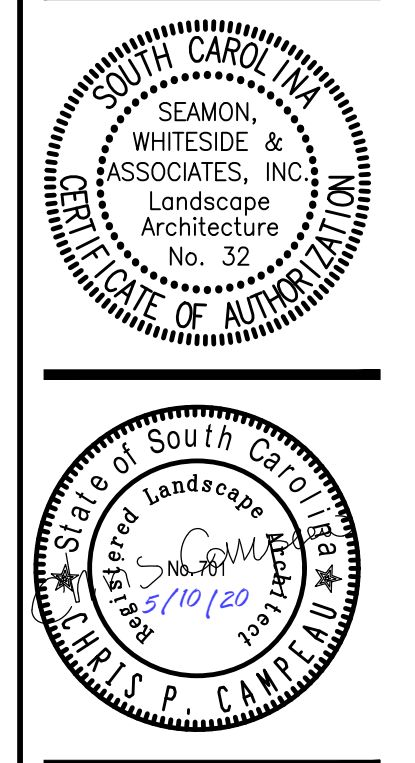
**7 CENTER STRAP ANCHOR FOUNDATION DETAIL** NTS



**8 HARD TENNIS COURT PAVEMENT SECTION** NTS

**TENNIS COURT NOTES:**  
 1. TENNIS COURT SURFACING TO BE 2" TH. (FULL DEPTH) ASPHALT WITH NOVA ACRYLIC TOPCOAT SEALANT (OR APPROVED EQUAL.) COLORS TO BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

**SW**  
 SEAMONWHITESIDE  
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 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.272.1272  
 CHARLOTTE, NC 980.312.5450  
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**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BAE  
 CHECKED BY: CPC

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |

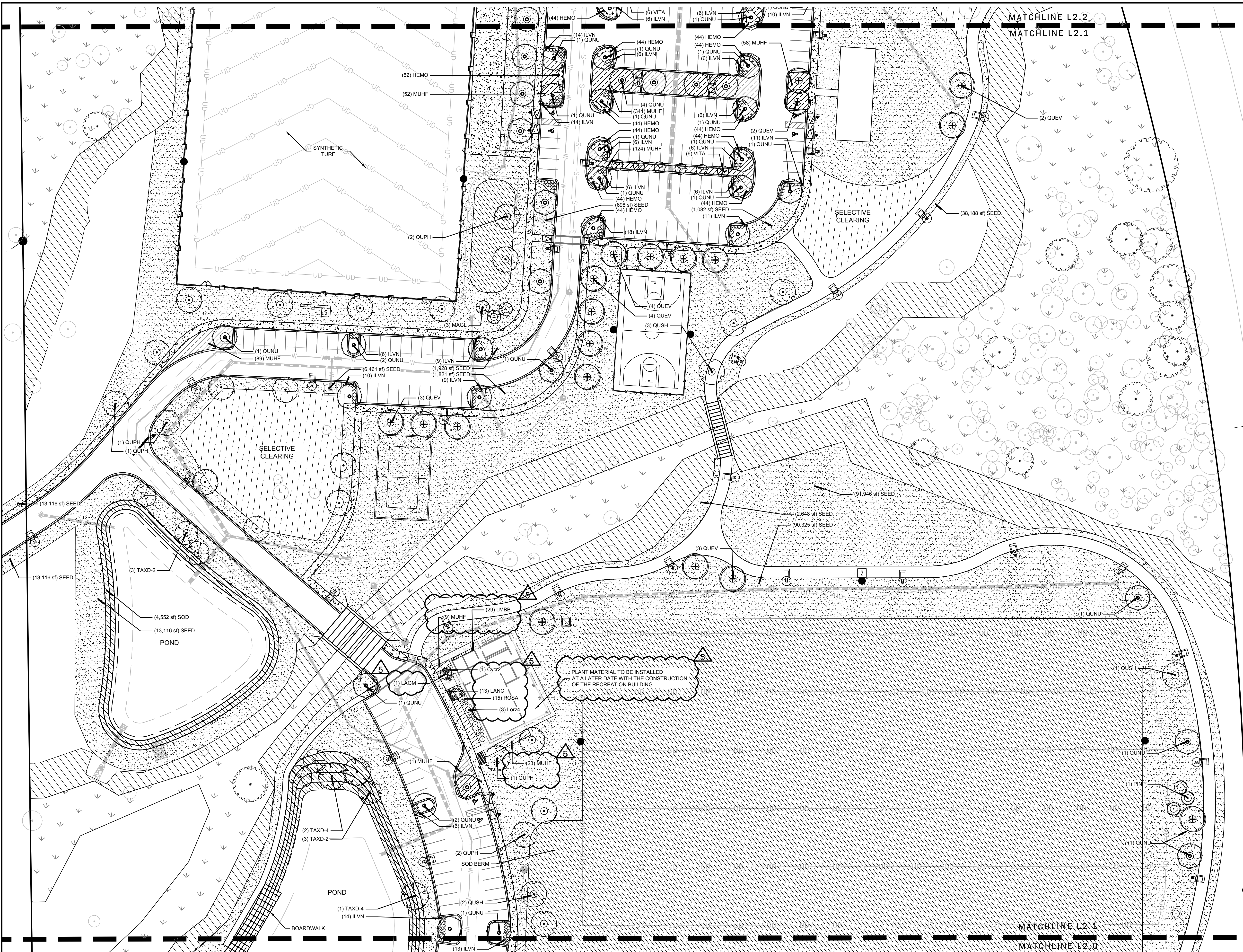
**HARDSCAPE DETAILS**







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### PLANT LEGEND

| TREES            | CODE   | BOTANICAL / COMMON NAME  |
|------------------|--------|--|
|                  | PINP   | Pinus palustris / Longleaf Pine  |
|                  | QUEV   | Quercus virginiana / Southern Live Oak   |
|                  | QUNU   | Quercus nuttallii / Nuttall Oak  |
|                  | QUPH   | Quercus phellos / Willow Oak   |
|                  | QUSH   | Quercus shumardii / Shumard Red Oak  |
|                  | TAXD-2 | Taxodium distichum / Bald Cypress  |
|                  | TAXD-4 | Taxodium distichum / Bald Cypress  |
| UNDERSTORY TREES | CODE   | BOTANICAL / COMMON NAME  |
|                  | LAGM   | Lagerstroemia x Muskogee / Muskogee Crape Myrtle                                 |
|                  | MAGL   | Magnolia grandiflora 'Claudia Wannamaker' / Claudia Wannamaker Southern Magnolia |
|                  | VITA   | Vitex agnus-castus / Chastle Tree  |
| SHRUBS           | CODE   | BOTANICAL / COMMON NAME  |
|                  | ILVN   | Ilex vomitoria 'Nana' / Dwarf Yaupon   |
|                  | LANC   | Lantana x 'Moni' / Confeiti Spreading Lantana                                    |
|                  | Lorz4  | Loropetalum chinense rubrum 'Zhuzhou' / Zhuzhou Fuchsia Loropetalum              |
|                  | ROSA   | Rosa x 'Radiko' / Double Knockout Rose   |
| CYCADS/PALMS     | CODE   | BOTANICAL / COMMON NAME  |
|                  | Cyc2   | Cycas revoluta / Sago Palm   |
| SHRUB AREAS      | CODE   | BOTANICAL / COMMON NAME  |
|                  | MUHF   | Muhlenbergia filipes / Muhly   |
| GROUND COVERS    | CODE   | BOTANICAL / COMMON NAME  |
|                  | HEMO   | Hemerocallis x 'Orange' / Orange Day Lily  |
|                  | LMBB   | Liriope muscari 'Big Blue' / Big Blue Lilyturf                                   |
| SOD/SEED         | CODE   | BOTANICAL / COMMON NAME  |
|                  | SEED   | Cynodon dactylon / Bermuda Grass   |
|                  | SOD    | Cynodon dactylon / Bermuda Grass   |

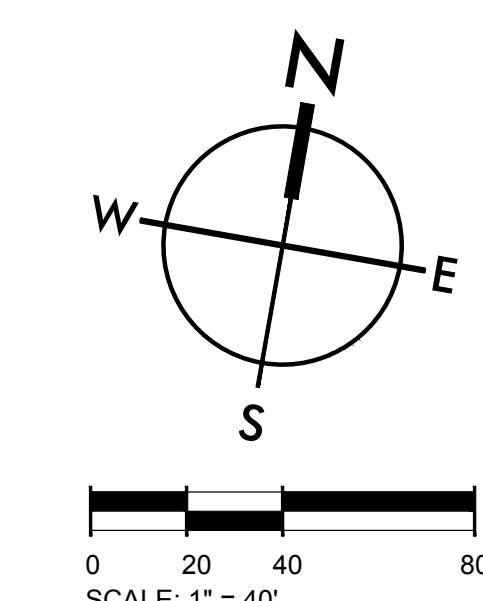
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SOUTH CAROLINA  
SEAMON, WHITESIDE & ASSOCIATES, INC.  
Landscape Architecture  
No. 32  
STATE OF SOUTH CAROLINA

State of South Carolina  
Landscape Architecture  
No. 14120  
CHRIS P. CAMPBELL

- #### GENERAL NOTES:
- SEE SWPPP PLANS (SHEETS C3.0-C3.11) FOR SILT FENCE LOCATIONS, TREE PROTECTION ZONES AND BARRICADES, AND ADDITIONAL NOTES AND DETAILS.
  - FOR REQUIRED TREE MITIGATION AND DEVELOPMENT INCHES PER THE TOWN OF HANAHAN ZONING ORDINANCE, PLEASE REFER TO SHEET L2.4 FOR PLANT SCHEDULE QUANTITY AND SIZES.
  - THE OVERALL PLANT QUANTITY FOR THE ENTIRE SITE CAN BE FOUND ON THE MASTER PLAN SCHEDULE, SHEET L-2.4
  - CONTRACTOR TO CONTACT CIVIL ENGINEER OR LANDSCAPE ARCHITECT REGARDING ANY SITING MODIFICATIONS FROM THESE PLANS PRIOR TO CHANGES IN THE FIELD. CONTACT: 843-884-1667
  - CWS REQUIRES 24 HOUR ACCESS TO THE ENTIRE WATER SYSTEM WITHIN THIS SITE FOR O&M DUTIES. OWNER TO PROVIDE MEANS OF ENTRY FOR ALL AREAS BEYOND LOCKED ENTRY POINTS.



811

Know what's below.  
Call before you dig.

## HANAHAN RECREATION COMPLEX

CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

|              |          |
|--------------|----------|
| SW+ PROJECT: | 7867     |
| DATE:        | 06/12/20 |
| DRAWN BY:    | BAE      |
| CHECKED BY:  | CPC      |

#### REVISION HISTORY

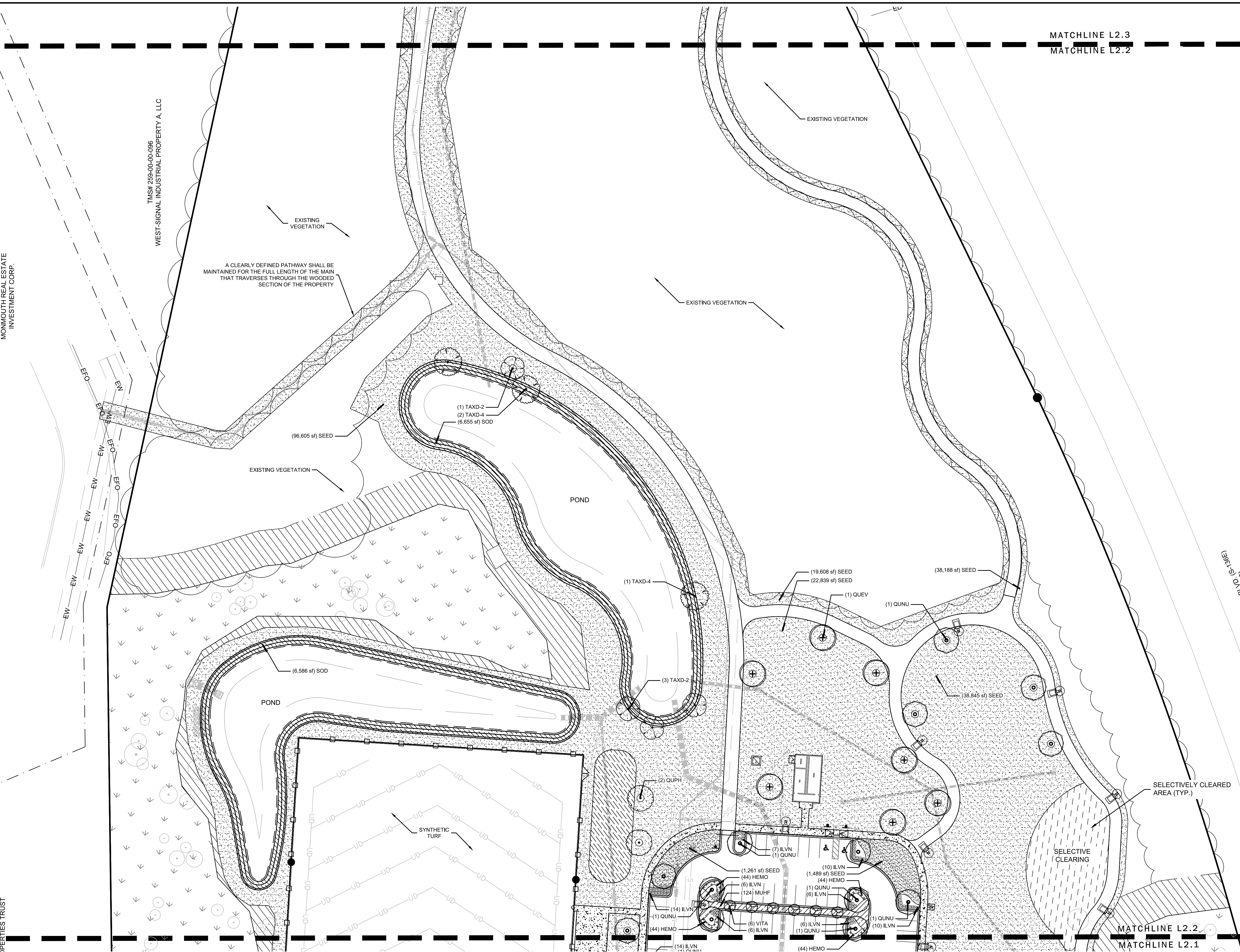
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|---|----------|
| A | 6/12/20  |
| B | 11/20/20 |
| C | 01/22/21 |
| 0 | 03/11/21 |
| 1 | 03/26/21 |
| 5 | 06/25/21 |

LANDSCAPE PLAN

L2.1

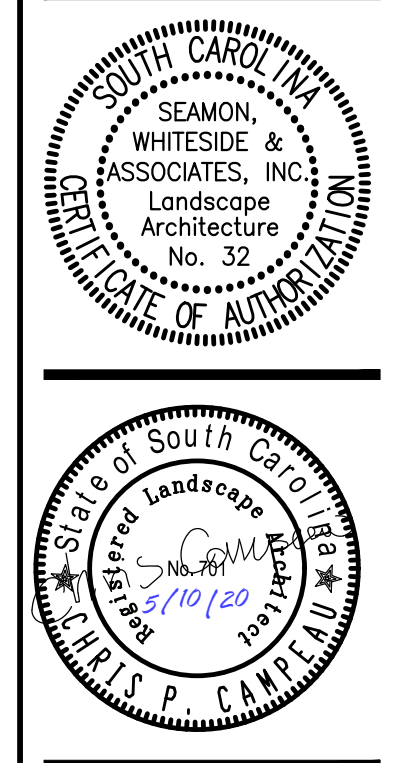


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 TMSF 259-00-00-097 MONMOUTH REAL ESTATE INVESTMENT CORP. TMSF 259-00-00-096 WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC



| PLANT LEGEND     |        |   |
|------------------|--------|---|
| TREES            | CODE   | BOTANICAL / COMMON NAME                 |
|                  | QJUEV  | Quercus virginiana / Southern Live Oak  |
|                  | QUNU   | Quercus nuttallii / Nuttall Oak         |
|                  | QUPH   | Quercus phellos / Willow Oak            |
|                  | TAXD-2 | Taxodium distichum / Bald Cypress       |
|                  | TAXD-4 | Taxodium distichum / Bald Cypress       |
| UNDERSTORY TREES | CODE   | BOTANICAL / COMMON NAME                 |
|                  | VITA   | Vitex agnus-castus / Chaste Tree        |
| SHRUBS           | CODE   | BOTANICAL / COMMON NAME                 |
|                  | ILVN   | Ilex vomitoria 'Nana' / Dwarf Yaupon    |
| SHRUB AREAS      | CODE   | BOTANICAL / COMMON NAME                 |
|                  | MUHF   | Muhlenbergia filipes / Muhly            |
| GROUND COVERS    | CODE   | BOTANICAL / COMMON NAME                 |
|                  | HEMO   | Hemerocallis 'Orange' / Orange Day Lily |
| SOD/SEED         | CODE   | BOTANICAL / COMMON NAME                 |
|                  | SEED   | Cynodon dactylon / Bermuda Grass        |
|                  | SOD    | Cynodon dactylon / Bermuda Grass        |

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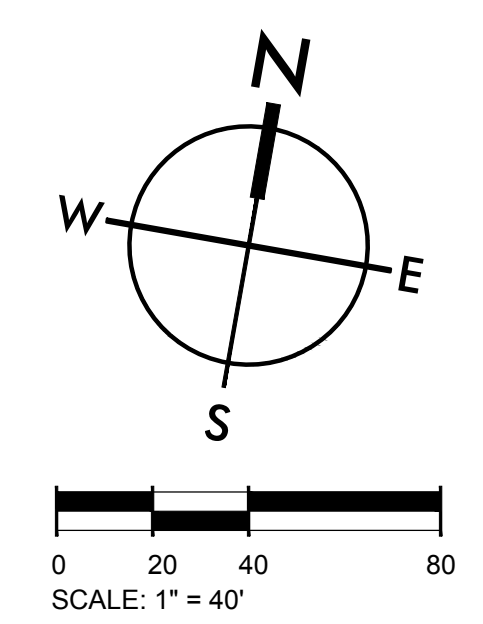
**HANAHAN RECREATION  
 COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
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| REVISION HISTORY |          |
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| B                | 11/20/20 |
| C                | 01/22/21 |
| D                | 03/11/21 |

LANDSCAPE PLAN

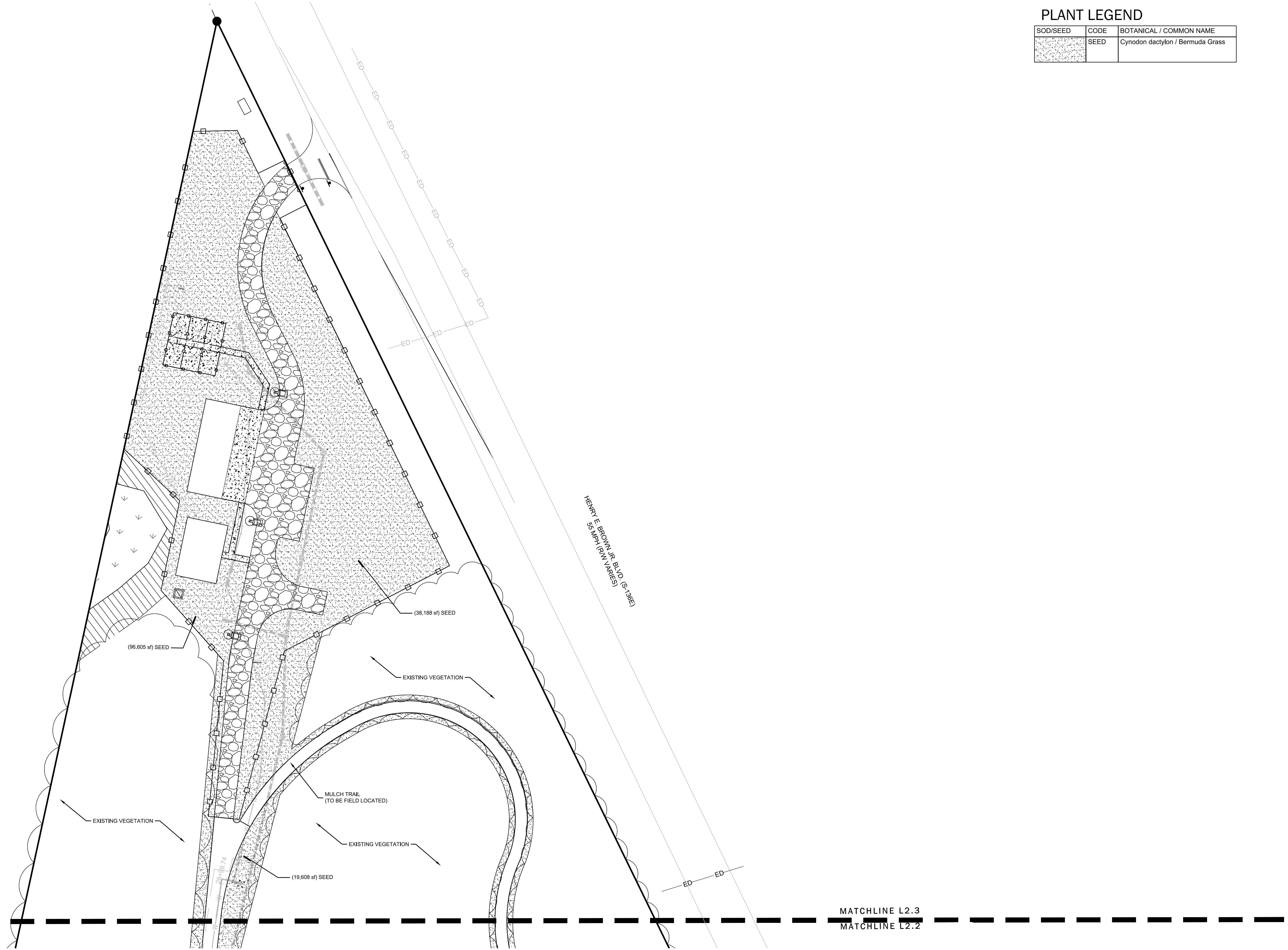
- GENERAL NOTES:**
- SEE SWPPP PLANS [SHEETS C3.0-C3.11] FOR SILT FENCE LOCATIONS, TREE PROTECTION ZONES AND BARRICADES, AND ADDITIONAL NOTES AND DETAILS.
  - FOR REQUIRED TREE MITIGATION AND DEVELOPMENT INCHES PER THE TOWN OF HANAHAN ZONING ORDINANCE, PLEASE REFER TO SHEET L2.4 FOR PLANT SCHEDULE QUANTITY AND SIZES. THE OVERALL PLANT QUANTITY FOR THE ENTIRE SITE CAN BE FOUND ON THE MASTER PLAN SCHEDULE, SHEET L-2.4
  - CONTRACTOR TO CONTACT CIVIL ENGINEER OR LANDSCAPE ARCHITECT REGARDING ANY SITEWORK MODIFICATIONS FROM THESE PLANS PRIOR TO CHANGES IN THE FIELD. CONTACT: 843-884-1667
  - CWS REQUIRES 24 HOUR ACCESS TO THE ENTIRE WATER SYSTEM WITHIN THIS SITE FOR O&M DUTIES. OWNER TO PROVIDE MEANS OF ENTRY FOR ALL AREAS BEYOND LOCKED ENTRY POINTS.





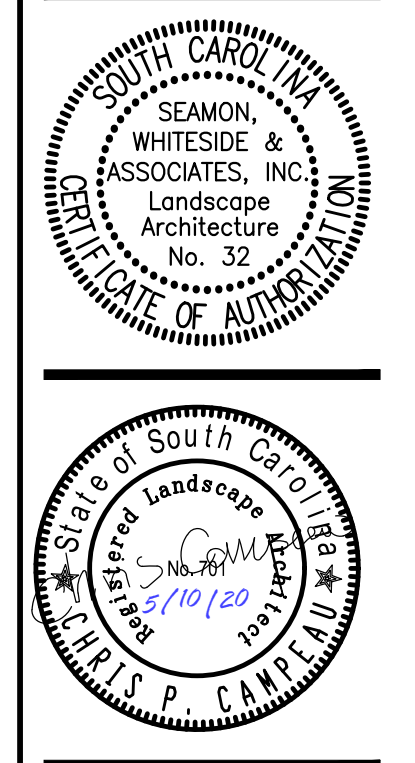
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TMS# 259-00-006  
 WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC



| SOD/SEED | CODE | BOTANICAL / COMMON NAME          |
|----------|------|----------------------------------|
|          | SEED | Cynodon dactylon / Bermuda Grass |

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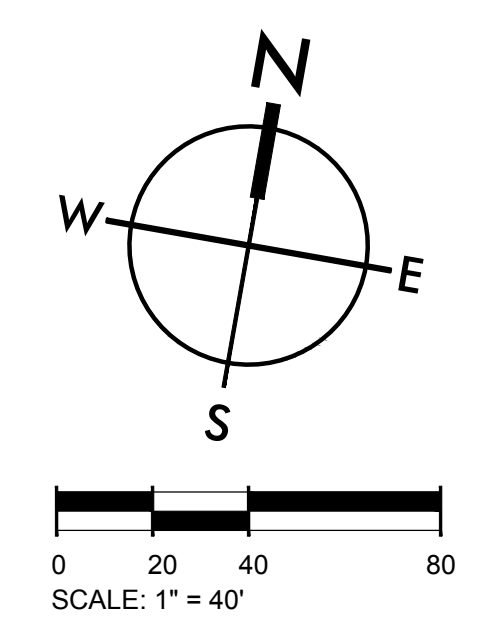
**HANAHAN RECREATION  
 COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
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| REVISION HISTORY |          |
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| A                | 6/12/20  |
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| C                | 01/22/21 |
| D                | 03/11/21 |

LANDSCAPE PLAN

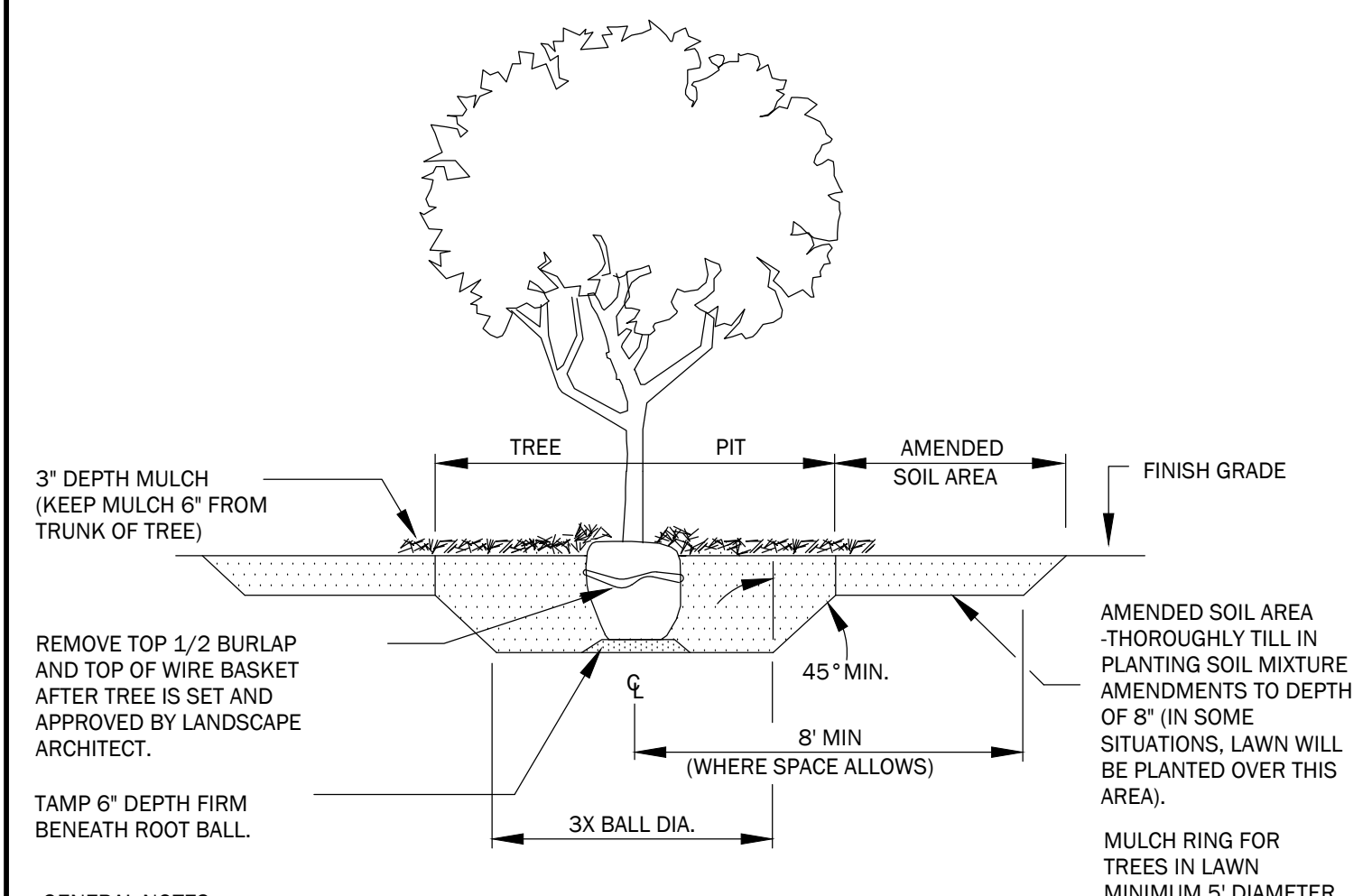
- GENERAL NOTES:**
- SEE SWPPP PLANS (SHEETS C3.0-C3.11) FOR SILT FENCE LOCATIONS, TREE PROTECTION ZONES AND BARRICADES, AND ADDITIONAL NOTES AND DETAILS.
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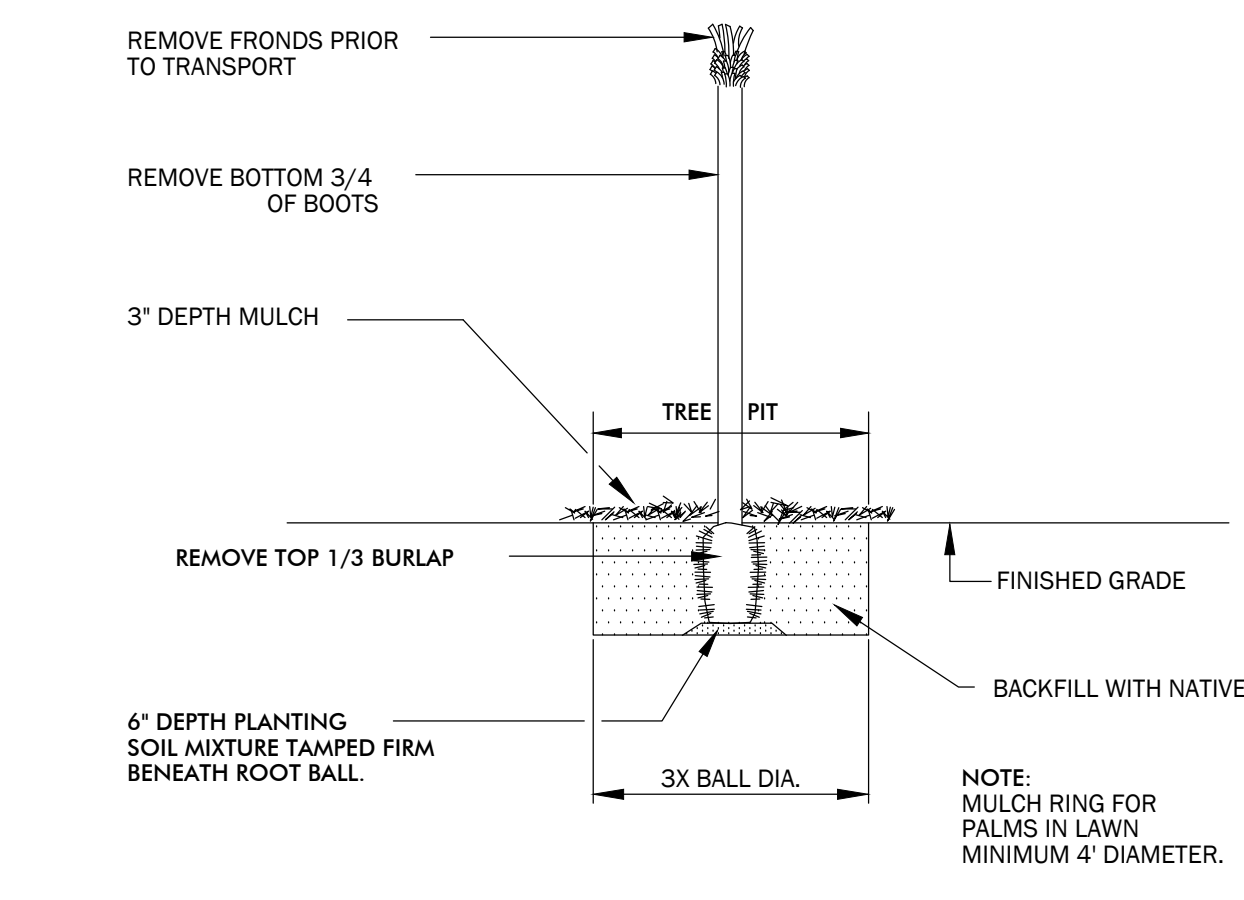


THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.

NOTE: CONTACT LANDSCAPE ARCHITECT (LA) IF TREE STAKING IS NECESSARY & LA WILL PROVIDE DETAIL.



- GENERAL NOTES:**
1. PLANT SO THAT TOP OF ROOT BALL IS 2" ABOVE FINISH GRADE.
  2. SCARIFY SIDES AND BOTTOM OF PIT.
  3. BACKFILL TREE PIT AND WATER UNTIL NO MORE WATER IS ABSORBED.
  4. HAND TAMP OR PROBE WITH SHOVEL HANDLES TO REMOVE VOIDS.
  5. DO NOT WRAP TREE TRUNKS.



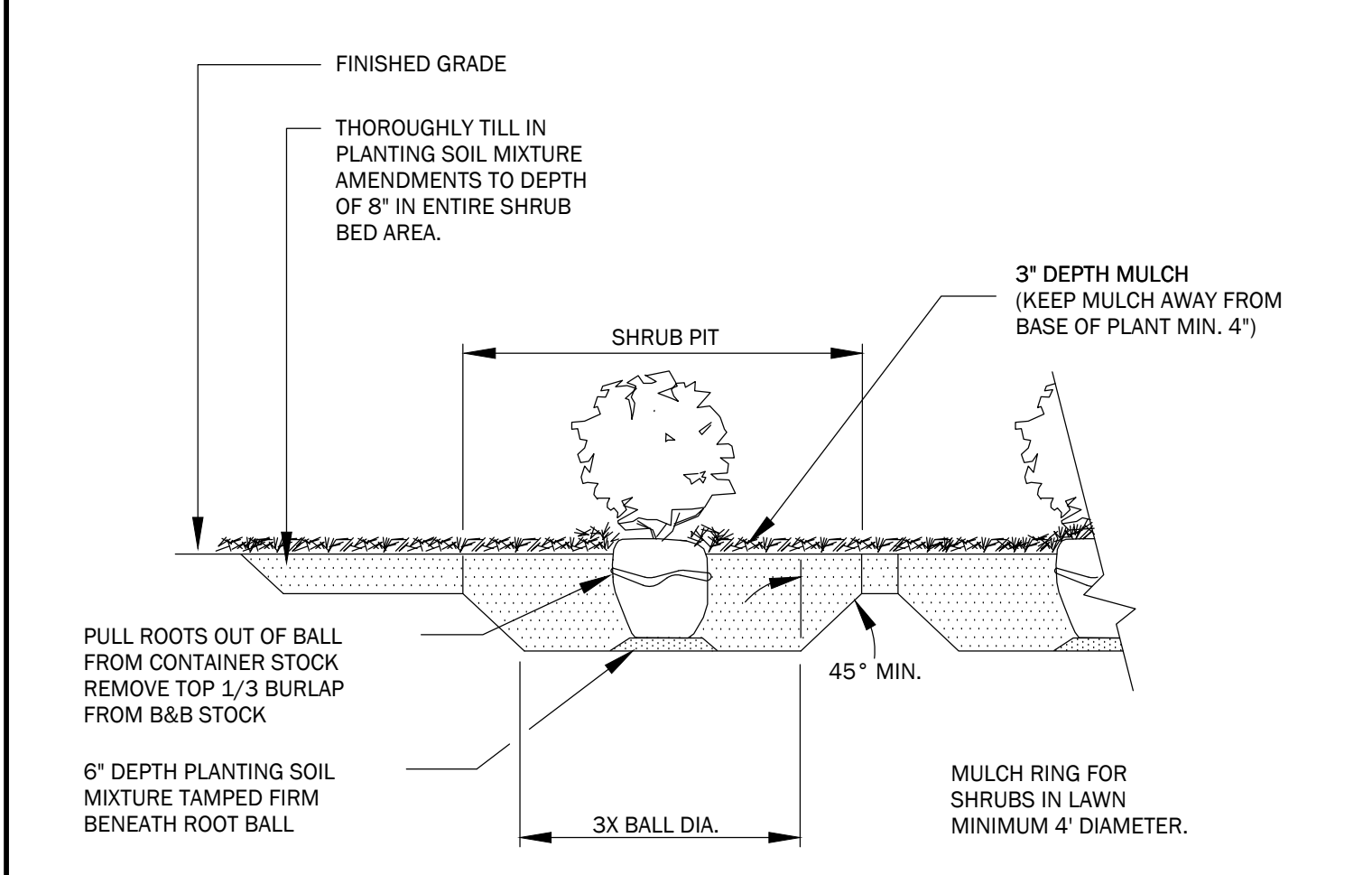
- GENERAL NOTES:**
1. PALM SHOULD BE PLANTED AT SAME DEPTH AS IT WAS HARVESTED.
  2. SCARIFY SIDES AND BOTTOM OF PIT.
  3. BACKFILL TREE PIT WITH NATIVE SOIL IN 8" LAYERS, HAND TAMPED, TO REMOVE VOIDS.
  4. WHEN 2/3 BACKFILLED, FILL WITH WATER.
  5. AFTER PLACING AND HAND-TAMPING FINAL LAYERS, WATER AGAIN UNTIL NO MORE IS ABSORBED.
  6. MAKE SURE THERE IS NO STANDING WATER IN BOTTOM OF HOLE.

**GENERAL PLANTING NOTES**

1. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST SHOULD FOLLOW OR EXCEED THE STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS (ANS). UNLESS OTHERWISE SPECIFIED, ANY SIZE SPECIFIED SHALL BE CONSIDERED MINIMUM. MINIMUMS FOR HEIGHT, SPREAD, OR CALIPER SHALL TAKE PRECEDENCE OVER A SPECIFIED CONTAINER SIZE.
2. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
3. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEAR'S VERTICAL GROWTH (TOP CANDLES).
4. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS. CONTRACTOR RESPONSIBLE FOR LOCATING, PROTECTING, AND REPAIRING ALL DAMAGE TO BUILDINGS, UTILITIES, PAVEMENT, AND CURB & GUTTER. ANY REPAIRS SHALL BE DONE PROMPTLY AT CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.
6. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE WITHIN A TWENTY-FOUR (24) HOUR PERIOD. IF WATER DOESN'T PERK, CONTRACTOR SHALL NOTIFY THE OWNER'S REP PRIOR TO INSTALLING PLANTS.
7. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

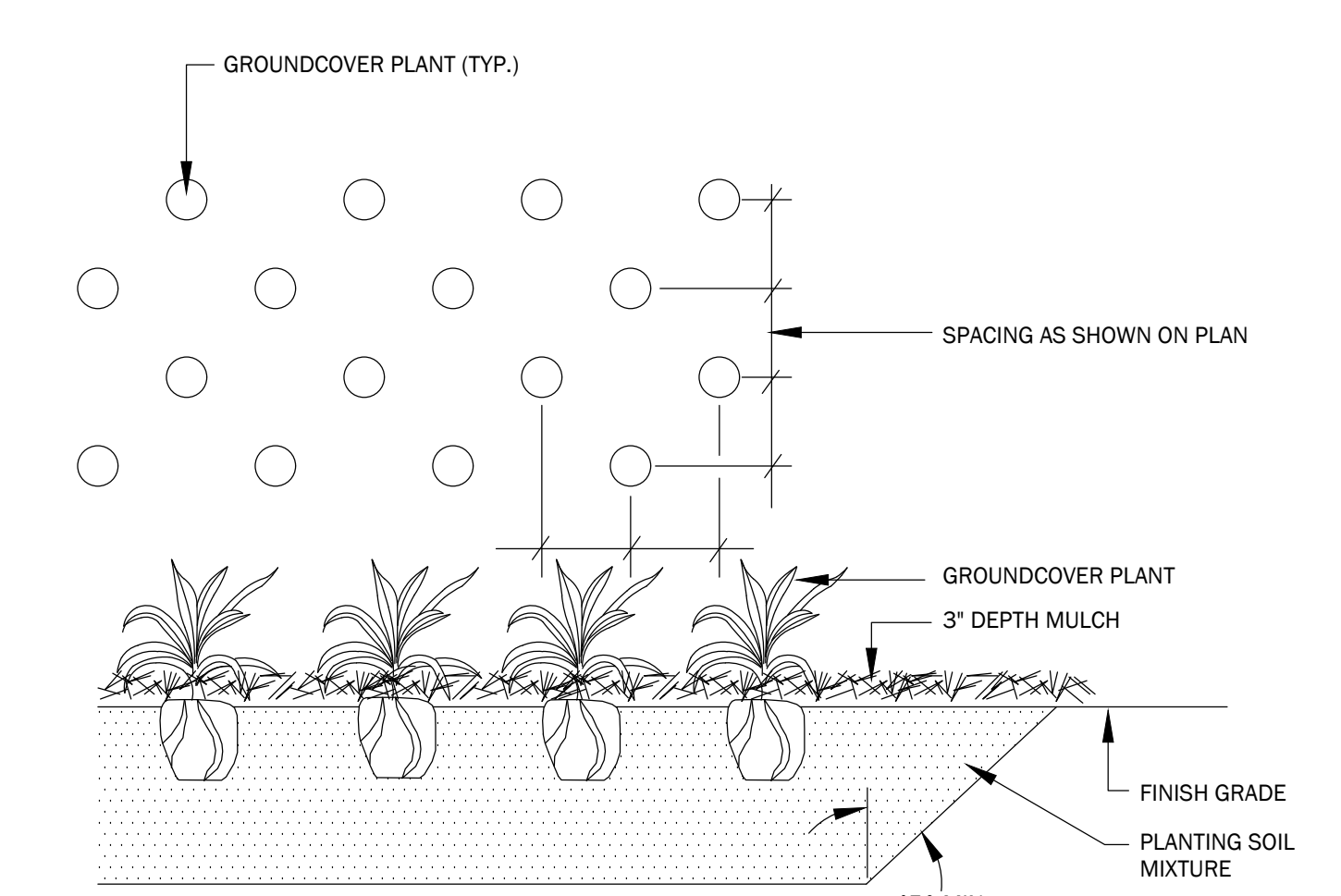
9. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE. REPLACEMENTS ARE NOT SUBJECT TO AN ADDITIONAL GUARANTEE, BUT THE LANDSCAPE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT ON REASON FOR PLANT DECLINE/DEATH AND HOW TO AVOID FUTURE INSTANCES.
10. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORDANCE WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.
11. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OVERNIGHT.
12. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.
13. REMOVE BURLAP/STRAPPING AND WIRE BASKET FROM TOP 1/3 OF ROOT BALL ON TREES.
14. REMOVE PAPER, PLASTIC OR METAL AROUND ROOT BALLS OF SHRUBS.
15. DO NOT WRAP TREES.
16. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING.
17. TREE GUYING MATERIAL SHALL BE 'ARBOR-TIE' OR EQUIVALENT.
18. ALL PLANT BEDS TO BE MULCHED WITH 3" OF PINESTRAW MULCH UNLESS OTHERWISE SPECIFIED.
19. ALL AREAS OF PLANTING, INCLUDING AREAS OF GRASS SEEDING AND SOD, SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SHALL BE PROVIDED APPROPRIATE SOIL FOR THE PROPOSED PLANTINGS.
20. ALL EXISTING VEGETATION WITHIN AREAS TO BE PLANTED, SODDED AND/OR SEEDED SHALL BE REMOVED PRIOR TO PLANTING, SODDING, AND SEEDING. ALL AREAS INDICATED TO BE GRASS SEED SHALL BE SEEDED PER GRASSING SPECIFICATIONS FOR PERMANENT STABILIZATION.

**1 | TYPICAL TREE PLANTING**



- GENERAL NOTES:**
1. PLANT SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISH GRADE.
  2. SCARIFY SIDES AND BOTTOM OF PIT.
  3. BACKFILL SHRUB PIT WITH SPECIFIED PLANTING SOIL MIXTURE IN 6" LAYERS, HAND-TAMPED, TO REMOVE VOIDS.
  4. WHEN 2/3 BACKFILLED, FILL WITH WATER.
  5. AFTER PLACING AND HAND-TAMPING FINAL LAYERS, WATER AGAIN UNTIL NO MORE WATER IS ABSORBED.

**2 | TYPICAL PALM TREE PLANTING**



- GENERAL NOTES:**
1. THOROUGHLY TILL IN PLANTING SOIL MIXTURE AMENDMENTS TO DEPTH OF 8" IN ENTIRE GROUNDCOVER BED AREA.
  2. WORK SOIL TO LOOSE, UNIFORMLY FINE TEXTURE.
  3. HAND-TAMP BACKFILL TO REMOVE VOIDS AND AIR POCKETS.
  4. WATER IMMEDIATELY AFTER PLANTING UNTIL NO MORE WATER IS ABSORBED.

**IRRIGATION NOTES**

**GENERAL NOTES**

| PLANT SCHEDULE   |        |            |  |          |         |         |          |             |
|------------------|--------|------------|--|----------|---------|---------|----------|-------------|
| TREES            | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | PINP   | 3          | Pinus palustris / Longleaf Pine  | 3" CAL   | 14'-16' | 12'-14' | AS SHOWN | FWF, SP     |
|                  | QUEV   | 39         | Quercus virginiana / Southern Live Oak   | 3" CAL   | 14'-16' | 10'-12' | AS SHOWN | FWF, SP     |
|                  | QUNU   | 61         | Quercus nuttallii / Nuttall Oak  | 3" CAL   | 14'-16' | 10'-12' | AS SHOWN | FWF, SP     |
|                  | QUPH   | 43         | Quercus phellos / Willow Oak   | 3" CAL   | 14'-16' | 10'-12' | AS SHOWN | FWF, SP     |
|                  | QUSH   | 12         | Quercus shumardii / Shumard Red Oak  | 3" CAL   | 14'-16' | 12'-14' | AS SHOWN | FWF, SP     |
|                  | TAXD-2 | 12         | Taxodium distichum / Bald Cypress  | 2" CAL   | 12'-14' | 10'-12' | AS SHOWN | FWF, SP     |
|                  | TAXD-4 | 10         | Taxodium distichum / Bald Cypress  | 4" CAL   | 16'-18' | 12'-14' | AS SHOWN | FWF, SP     |
| UNDERSTORY TREES | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | LAGM   | 8          | Lagerstroemia x 'Muskegee' / Muskegee Crape Myrtle                               | 1.5" CAL | 10'-12' | 8'-10'  | AS SHOWN | MS, FWF     |
|                  | MAGL   | 3          | Magnolia grandiflora 'Claudia Wannamaker' / Claudia Wannamaker Southern Magnolia | 1.5" CAL | 8'-10'  | 8'      | AS SHOWN | FWF, SP     |
|                  | VITA   | 30         | Vitex agnus-castus / Chaste Tree   | 1.5" CAL | 6'-8'   | 8'      | AS SHOWN | MS, FWF, SP |
| SHRUBS           | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | ILLP   | 16         | Illicium parviflorum / Anise Tree  | 3 GAL    | 12'-18" | 12'-18" | AS SHOWN | FWF, SP     |
|                  | ILVN   | 346        | Ilex vomitoria 'Nana' / Dwarf Yaupon   | 3 GAL    | 18"-24" | 18"-24" | AS SHOWN | FWF, SP     |
|                  | LANC   | 114        | Lantana x 'Moni' / Confetti Spreading Lantana                                    | 1 GAL    | 12'-18" | 12'-18" | AS SHOWN | FWF, SP     |
|                  | LIGS   | 26         | Ligustrum sinense 'Sunshine' / Sunshine Ligustrum                                | 3 GAL    | 18"-24" | 18"-24" | AS SHOWN | FWF         |
|                  | LORC   | 44         | Loropetalum chinense 'PPI' TM / Purple Daydream Dwarf Loropetalum                | 3 GAL    | 18"-24" | 18"-24" | AS SHOWN | FWF, SP     |
|                  | Lorz4  | 3          | Loropetalum chinense rubrum 'Zhuzhou' / Zhuzhou Fuchsia Loropetalum              | 15 GAL   | 36"-48" | 36"-48" | AS SHOWN | FWF, SP     |
|                  | ROSA   | 40         | Rosa x 'Radtko' / Double Knockout Rose   | 3 GAL    | 18"-24" | 18"-24" | AS SHOWN | FWF, SP     |
| CYCADS/PALMS     | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | Cyrc2  | 4          | Cycas revoluta / Sago Palm   | 7 GAL    | 24"-36" | 24"-36" | AS SHOWN | FWF, SP     |
| SHRUB AREAS      | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | BOUG   | 867        | Bouteloua gracilis / Blue Grama Grass  | 1 GAL    | 8"-12"  | 8"-12"  | 12" O.C. |             |
|                  | MUHF   | 1,323      | Muhlenbergia filipes / Muhly   | 1 gal    | 18"-24" | 18"-24" | 36" O.C. |             |
| GROUND COVERS    | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | DITA   | 209        | Dianella tasmanica 'Variegata' / Variegated Flax Lily                            | 1 GAL    | 8"-12"  | 8"-12"  | 24"      | FWF, SP     |
|                  | HEMO   | 1,010      | Hemerocallis x 'Orange' / Orange Day Lily  | 1 GAL    | 8"-12"  | 8"-12"  | 24"      | FWF, SP     |
|                  | LMBB   | 29         | Liriope muscari 'Big Blue' / Big Blue Lilyturf                                   | 4" POT   | 8"-12"  | 8"-12"  | 24"      | FWF, SP     |
| SOD/SEED         | CODE   | QTY        | BOTANICAL / COMMON NAME  | SIZE     | HEIGHT  | SPREAD  | SPACING  | REMARKS     |
|                  | SEED   | 537,329 sf | Cynodon dactylon / Bermuda Grass   | SEED     | N/A     | N/A     | N/A      | SP          |
|                  | SOD    | 351,486 sf | Cynodon dactylon / Bermuda Grass   | SOD      | N/A     | N/A     | N/A      | SP          |

- |     |                               |     |                        |
|-----|-------------------------------|-----|------------------------|
| FWF | FULL WELL FORMED              | MS  | MULTI-STEMMED TRUNK    |
| SP  | SPECIMEN MATERIAL             | CAL | TRUNK CALIPER          |
| TF  | TREE FORM HABIT               | GAL | GALLON CONTAINER       |
| EGG | EGG CAN CONTAINER             | CON | CONTAINERIZED MATERIAL |
| B&B | BALLED AND BURLAPPED MATERIAL | BR  | BARE ROOT MATERIAL     |
|     |                               | ESP | ESPALIER               |

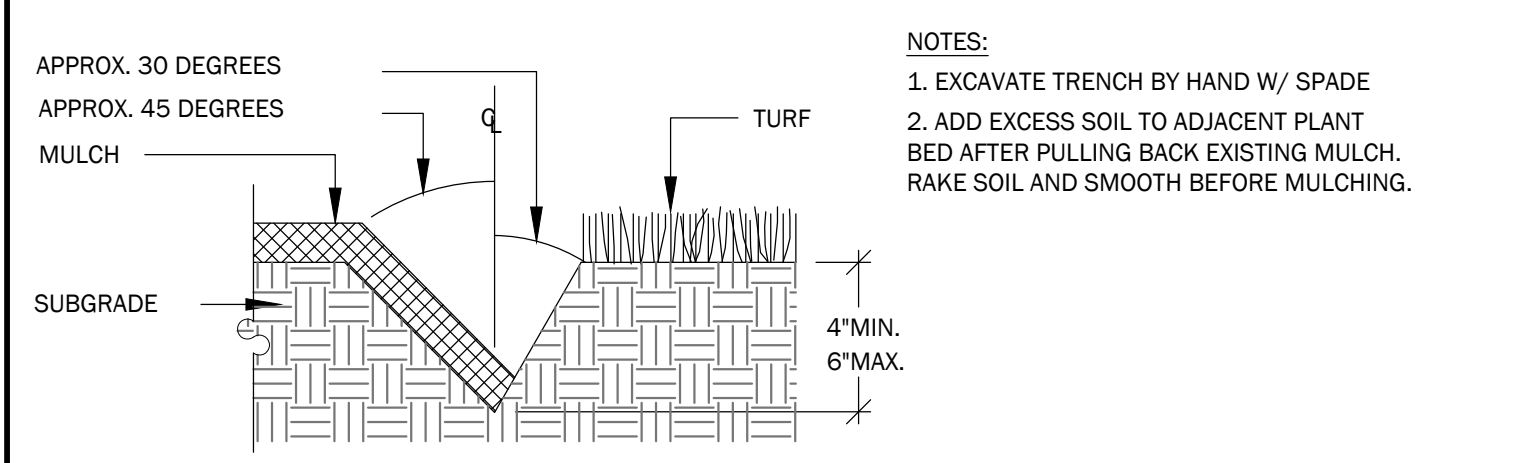
**3 | TYPICAL SHRUB PLANTING**

- GENERAL NOTES:**
1. FOR EACH UNAMENDED SOIL TYPE, FURNISH SOIL ANALYSIS AND A WRITTEN REPORT BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; SODIUM ABSORPTION RATIO; DELETERIOUS MATERIAL; BUFFER PH LEVELS; AND MINERAL AND PLANT NUTRIENT CONTENT OF THE SOIL.
  2. A MINIMUM OF THREE REPRESENTATIVE SAMPLES SHALL BE TAKEN FROM VARIED LOCATIONS FOR EACH SOIL TO BE USED OR AMENDED FOR PLANTING PURPOSES.
  3. SUBMIT TO LANDSCAPE ARCHITECT THE LAB RECOMMENDATIONS FOR SOIL TREATMENTS AND SOIL AMENDMENTS TO BE INCORPORATED. INDICATE LAB RECOMMENDATIONS IN WEIGHT PER 1000 SQ. FT. OR VOLUME PER CU. YD. FOR NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND ORGANIC AND INORGANIC SOIL AMENDMENTS TO BE ADDED TO PRODUCE PLANTING SOIL SUITABLE FOR HEALTHY, VIABLE PLANTS.
  4. ALL SOILS USED FOR PLANTING SHALL BE PREPARED AS NECESSARY USING ORGANIC AND INORGANIC SOIL AMENDMENTS AND FERTILIZERS IN THE QUANTITIES RECOMMENDED IN THE SOIL ANALYSIS REPORT TO PRODUCE SATISFACTORY PLANTING SOIL FOR HEALTHY, VIABLE PLANTS. PLANTING SOILS SHALL HAVE A PH LEVEL BETWEEN 6.0 AND 7.0.
  5. IN ALL PLANTING AREAS, SPREAD PLANTING SOIL TO A DEPTH OF 8 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT.

**4 | GRASS/GROUNDCOVER PLANTING**

1. THE TECHNICAL SPECIFICATIONS ARE MADE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND ON THESE PLANS.
2. CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY DISCREPANCIES PRIOR TO BEGINNING OR CONTINUING WORK.
3. THERE WILL BE NO SUBSTITUTIONS, DELETIONS OR ADDITIONS WITHOUT APPROVAL OF THIS OFFICE.
4. SIZE OF PLANT MATERIALS SHALL CONFORM WITH THE CURRENT EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK' FOR NUMBER ONE GRADE NURSERY STOCK AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND AMERICAN NATIONAL STANDARDS INSTITUTE.
5. THE QUANTITIES ON THE SCHEDULE ARE ONLY A GUIDE. ALL QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR ON THE PLANTING PLAN.

**SOIL NOTES**



**PLANT SCHEDULE NOTES**

| TREE MITIGATION SUMMARY  |                        |                     |               |
|--|------------------------|---------------------|---------------|
| PROTECTED TREES REMOVED  | LANDMARK TREES REMOVED | TOTAL TREES REMOVED | TREES PLANTED |
| 644*   | 0*                     | 644*                | 532*          |
| NOTE: ALTHOUGH MITIGATION IS NOT REQUIRED, TREE MITIGATION HAS BEEN MET OR EXCEEDED BY RETAINING TREES ON SITE AND THROUGH REPLACEMENT TREES |                        |                     |               |

**5 | LAWN EDGE DETAIL**

**TREE MITIGATION SUMMARY**

**PLANT SCHEDULE**

**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BAE  
CHECKED BY: CPC

**REVISION HISTORY**

|   |          |
|---|----------|
| A | 6/12/20  |
| B | 11/20/20 |
| C | 01/22/21 |
| D | 03/11/21 |

PLANT SCHEDULE, DETAILS AND NOTES

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