

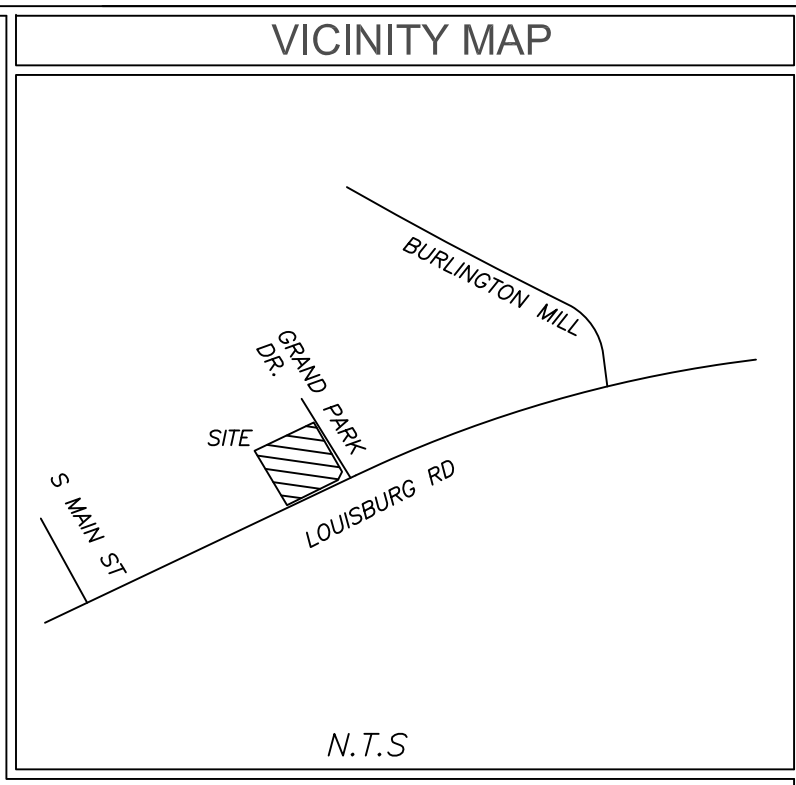
REVISION HISTORY	

DRAWING LEGEND

NOTE: THIS LEGEND DOES NOT APPLY TO 'EXISTING CONDITIONS' SHEET(S). THOSE ARE SHOWN IN THE ORIGINAL FORMAT AS RECEIVED BY THE SURVEYOR

OBJECTS AND SYMBOLS	EXISTING	NEW	OBJECTS AND SYMBOLS	EXISTING	NEW	ABBREVIATIONS	EXISTING	NEW	SWPP PLAN LEGEND
Right of Way			Benchmark		N/A	Sewer Easement	Ex. S.E.	S.E.	Turf Reinforcement Mat (TR)
Lot Line			Sanitary Sewer Manhole			Storm Easement	Ex. W.E.	W.E.	Sodding (S)
Adjoining Property Line		N/A	Sanitary Sewer Manhole ID #	N/A		Drainage Easement	Ex. D.E.	D.E.	Surface Roughening (SR)
Centerline		(Same as Existing)	Sanitary Sewer Cleanout			General Utility Easement	Ex. G.U.E.	G.U.E.	Temporary Seeding (TS)
Easement			Double Sanitary Sewer Service (Residential Only)			Access Easement	Ex. A.E.	A.E.	Permanent Seeding (PS)
Setback		(Same as Existing)	Single Sanitary Sewer Service (Residential Only)			Ingress/Egress Easement	Ex. I.E.E.	I.E.E.	Mulching (M)
Sanitary Sewer (Gravity)			TYPE 1 Storm Drainage Structure (CI-1)			Pond Maintenance Easement	Ex. P.M.E.	P.M.E.	Typical Lot Erosion Control Plan (LE)
Sanitary Sewer (Force Main)			TYPE 16 Storm Drainage Structure (CI-16)			Home Owner's Association	Ex. HOA	HOA	Flexible Growth Medium (FG)
Water Line			TYPE 17 Storm Drainage Structure (Right) (CI-17)			Property Owners Association	Ex. POA	POA	Erosion Control Blanket (EC)
Curb & Gutter (Straight)			TYPE 17 Storm Drainage Structure (Left) (CI-17)			HATCH PATTERNS			
Curb & Gutter (Roll)			TYPE 18 Storm Drainage Structure (CI-18)			Freshwater Wetland			Dust Control (DC)
Previous Phase Storm Drain Pipe		N/A	Isolation Box (IB)			Freshwater Wetland Buffer			Bonded Fiber Matrix (BF)
Storm Drain Pipe			Storm Drainage Junction Box (JB)			Saltwater Marsh			Concrete Washout Basin (CW)
Drainage Flow Arrow	N/A		Yard Inlet (YI)			Saltwater Marsh Buffer			Portable Toilet (PT)
Roof Drain			Control Structure (CS)			Site Clearing Area			Block & Stone Inlet Protection
Subsurface Drainage			Storm Drainage Structure ID #	N/A		Area Previously Cleared Included in Limits of Disturbance			Temp. Sediment Control Tube (See Tube)
Silt Fence, Standard			Telephone Box			Area to be Permanently Stabilized			Temp. Rock Ditch Checks
Silt Fence, Reinforced			Telephone Manhole						Turf Reinforcement Mat Outlet Protection (and Turf and Grasses Specs)
Phase Line	N/A		Electrical Box						Filter Fabric Inlet Protection
Drainage Basin Limits	N/A		Electrical Manhole						Temp. Curb Inlet Weep Filter
Flood Zone	ZONE 'X' ZONE 'AE'	N/A	Power Pole						Curb Inlet Sediment Filter
Conduit			Light Pole						Both Curb Inlet Filters (See Above)
Natural Gas			Fire Hydrant Assembly						Construction Entrance
Overhead Electrical			Water Blowoff						Dandy Sack or Grate Gator Inlet Protection
Underground Electrical			Water Line Valve						
Underground Telephone			Water Line Reducer						
Underground Cable			Water Line Bends, Angle Varies	N/A					
Underground Fiber Optic			Water Line Valve						
Fence			Water Line Reducer						
Elevation Contour			Single Water Service (Residential Only)						
Revision Cloud (Encloses Revision)	N/A		Double Water Service (Residential Only)						
			Sign						
			ADA Accessible Parking Space						
			Spot Elevation						
			Drainage Basin Area	N/A					
			Keynote	N/A					
			Parking Count ID #	N/A					
			Lot #	N/A					
			Revision ID #	N/A					
			Rip Rap at Pipe Outlet	N/A					

501 WINDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29546 | JUDSON MILLS BUILDING 6000, 701 EASLEY BROOK RD, SUITE 600 | GREENVILLE, SC 29611 | 230 PETERSON DR. | CHARLOTTE, NC 28217 | 720 N. CENAP STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MCGRAW AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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TITLE EXCEPTIONS

- Schedule B-Section II Title Exceptions
 Fidelity National Title Insurance Company
 Commitment Number: NC252306067V;NACS230520; Effective Date: June 29, 2023
- Easements, rights of ways, boundary lines, and improvements as set forth on Plat recorded in Book of Maps 2000, Page 1239, Book of Maps 1996, Page 1582, Book of Maps 1999, Page 1039, and Book of Maps 2003, Page 614, Wake County Registry. (AFFECTS SITE AS PLOTTED)
 - Deed of Easement Vehicular Access and Utility Services to Elevated Water Tank Facility from Grand Park Properties LLC to the City of Raleigh, dated May 5, 2003 and recorded in Book 10123, Page 2779, Wake County Registry. (AFFECTS SITE AS PLOTTED)
 - Right of way conveyance and easements contained in Deed for Highway Right of Way in favor of the Department of Transportation dated April 1, 2021, recorded April 11, 2022, in Book 18987, Page 1849, Wake County Registry. (AFFECTS SITE AS PLOTTED)
 - Cross Access Easement Agreement between Wallbrook Landco LLC and Grand Park Properties, LLC, dated April 12, 2022 and recorded in Book 18988, Page 1102, Wake County Registry. (AFFECTS SITE: UNABLE TO PLOT; NO DESCRIPTION OR MEASUREMENTS FOR EASEMENT)

SURVEYORS CERTIFICATION

* To: Fidelity National Title Insurance Company and TWAS Properties LLC, a Delaware limited liability company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1-6a,b,7a,b, 8, 9, 11, 13, 16, 17, 18, 20 and 21 of Table A thereof. The field work was completed on 6/6/23.

NIF
 GRAND PARK PROPERTIES LLC
 PIN# 1758479244
 (BM1999-01039)

6/6/23
 Date

Michael S. Perdue PLS #L-4322

LEGEND

- | | | | |
|--------|--------------------------|---------|------------------------|
| CB CPP | CATCH BASIN | — T — | PHONE LINE |
| CT | CORRUGATED PLASTIC PIPE | — C — | GUY WIRE |
| DI | CRIMPED TOP PIPE | — W — | GAS LINE |
| IE | DROP INLET | — W — | WATER LINE |
| JB | INVERT ELEVATION | — OHP — | POWER LINE |
| MH | JUNCTION BOX | — E — | UNDERGROUND POWER LINE |
| OT | MANHOLE | | POWER POLE |
| POB | OPEN TOP PIPE | | SANITARY SEWER MANHOLE |
| POC | POINT OF BEGINNING | | STORM SEWER MANHOLE |
| POC | POINT OF COMMENCEMENT | | CATCH BASIN |
| TBM | TEMPORARY BENCHMARK | | GAS METER |
| RCP | REINFORCED CONCRETE PIPE | | TRANSFORMER |
| SS | SANITARY SEWER | | IRON PIN FOUND |
| OHP | OVERHEAD POWER | | IRON PIN SET |
| EIP | IRON PIN FOUND | | WATER VALVE |
| NP | IRON PIN SET | | WATER METER |
| WV | WATER VALVE | | GAS VALVE |
| WM | WATER METER | | GAS METER |
| GV | GAS VALVE | | TELEPHONE PEDESTAL |
| GM | GAS METER | | FIRE HYDRANT |
| TP | TELEPHONE PEDESTAL | | LIGHT POLE |
| PH | PHONE LINE | | POWER METER |
| FH | FIRE HYDRANT | | BACKFLOW VALVE |
| LP | LIGHT POLE | | ELECTRICAL BOX |
| PM | POWER METER | | |
| BV | BACKFLOW VALVE | | |
| EB | ELECTRICAL BOX | | |

GENERAL NOTES

This property is in Zone X based on Flood Insurance Rate Map 3720175800K dated 07/19/2022. This determination was made by graphically determining the position of said site on said FIRM Map.

Contact proper Authorities Before building near utility lines, for easement width and restrictions. Underground Utilities are approximate and should be verified prior to any construction. Locations shown are approximate.

This survey has been prepared for the exclusive use of the person or entities named hereon. No express or implied warranties with respect to the information shown hereon is to be extended to any persons or entities other than those shown hereon.

Elevations based on GPS VRS connected to NC GPS Network. Vertical Datum NAVD 88.

Property Zoned GI-CZ
 Setbacks to be verified by Engineer prior to development.

I, Michael S. Perdue certify that this plat was drawn under my supervision from an actual survey made under my supervision and is a portion property as shown in (DB. 8438, PG. 1116); that the ratio of precision as calculated 1: 20,000 +/- and was not adjusted; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration # and seal this 6th day of June 2023.

That this survey is of an existing parcel of land, existing structures and buildings and does not create a new street or change existing streets.

Michael S. Perdue, PLS# L-4322

All matters shown on recorded plats are shown on survey, if applicable.

There was evidence of recent earth moving work or construction was observed on the property.

There was no visible evidence of cemeteries or burial grounds found.

No evidence of the site being used as a solid waste dump, sump or sanitary landfill.

No evidence of wetlands being marked on subject property.

Property PIN# 1758479244

Survey Reference
 (DB. 8438, PG. 1116)
 (BM. 2000-01239)

ALTA/NSPS LAND TITLE SURVEY
 FOR

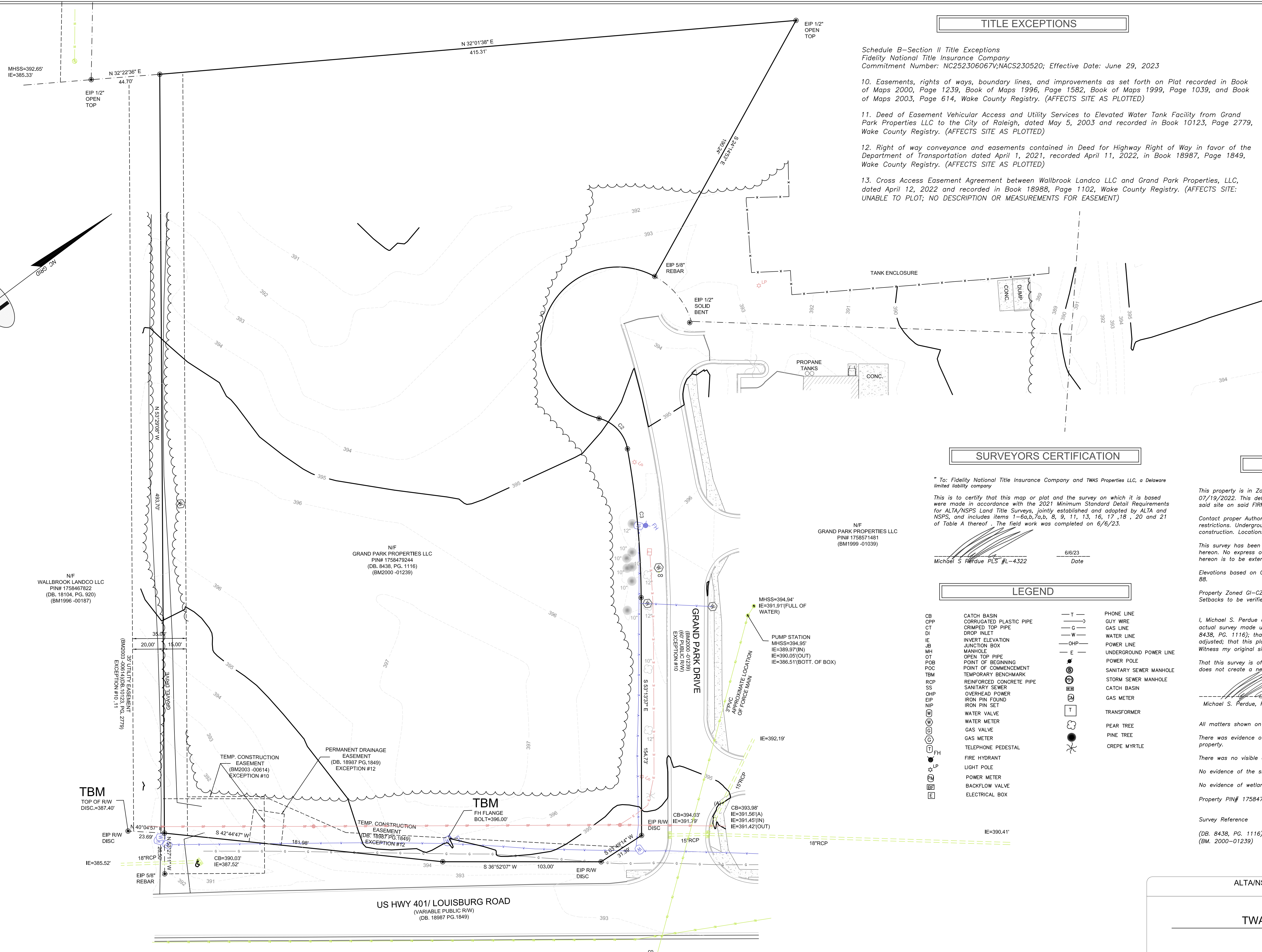
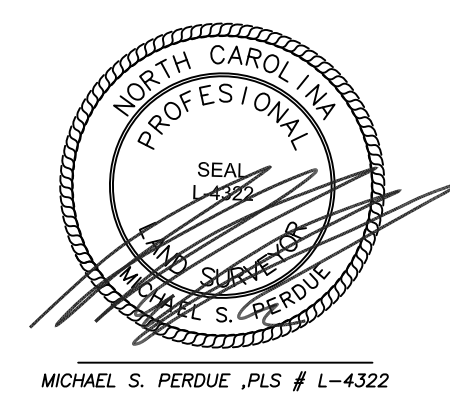
TWAS Properties LLC

TOWN: ROLESVILLE COUNTY: WAKE STATE: NORTH CAROLINA

DATE: 6/6/23 SCALE: 1:30

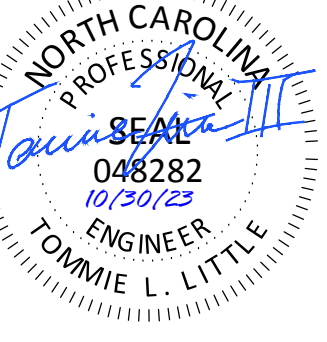
FIELD WORK: MSP DRAWN BY: MSP REVIEWED BY: MSP

MSP FILE: twrolesville MSP JOB#: 231820



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	50.00'	1.6977'	99.20'	S 31°42'56" E	1194°32'39"	391.83'
C2	25.01'	28.63'	27.05'	N 83°49'48" E	65°34'40"	16.11'
C3	570.00'	197.34'	97.22'	S 58°23'28" E	9°47'04"	48.79'

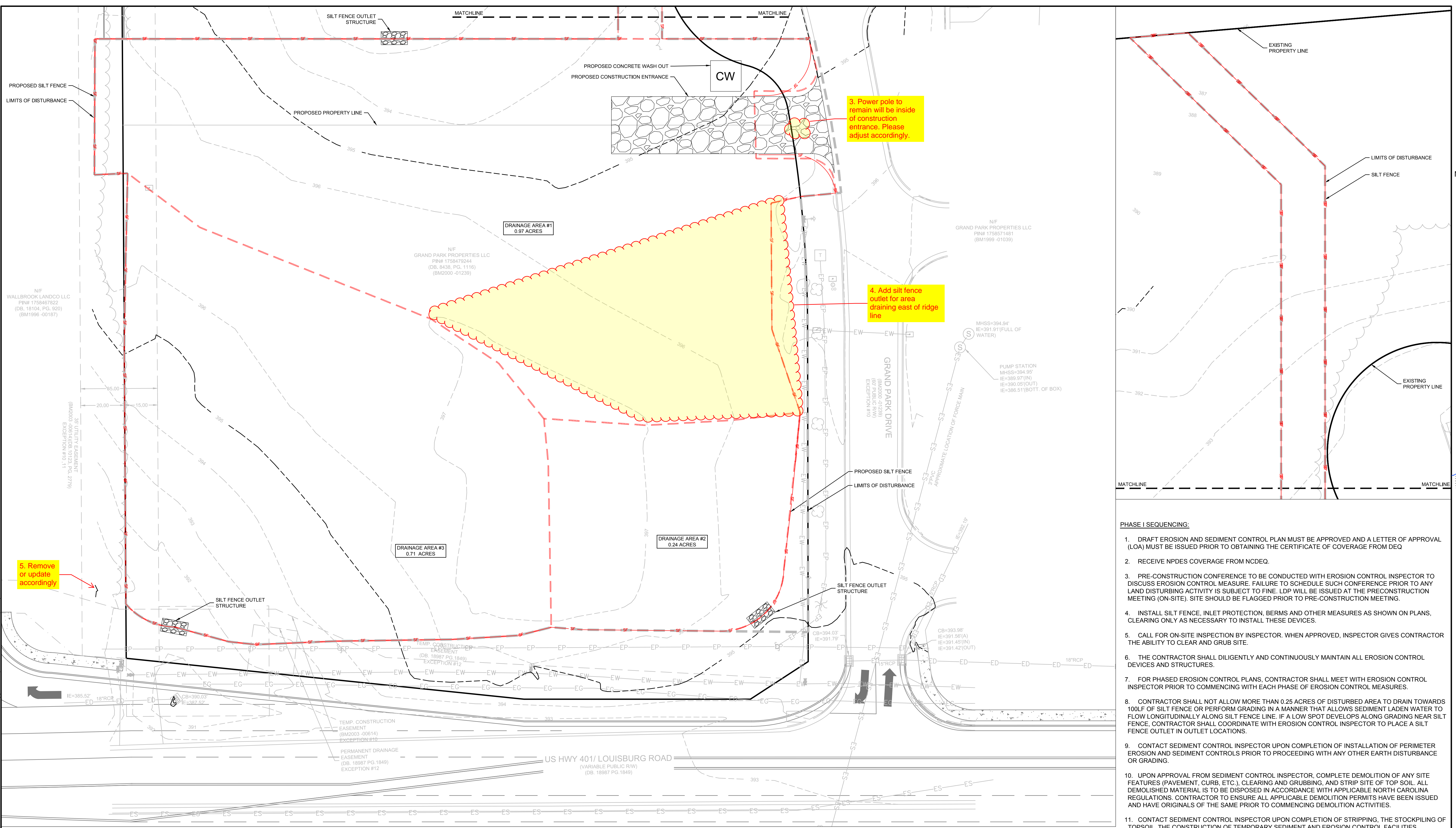




REVISION HISTORY

NO.	DESCRIPTION	DATE

EROSION CONTROL PH I



- PHASE I SEQUENCING:**
- DRAFT EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED AND A LETTER OF APPROVAL (LOA) MUST BE ISSUED PRIOR TO OBTAINING THE CERTIFICATE OF COVERAGE FROM DEQ
 - RECEIVE NPDES COVERAGE FROM NCDEQ.
 - PRE-CONSTRUCTION CONFERENCE TO BE CONDUCTED WITH EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURE. FAILURE TO SCHEDULE SUCH CONFERENCE PRIOR TO ANY LAND DISTURBING ACTIVITY IS SUBJECT TO FINE. LDP WILL BE ISSUED AT THE PRECONSTRUCTION MEETING (ON-SITE). SITE SHOULD BE FLAGGED PRIOR TO PRE-CONSTRUCTION MEETING.
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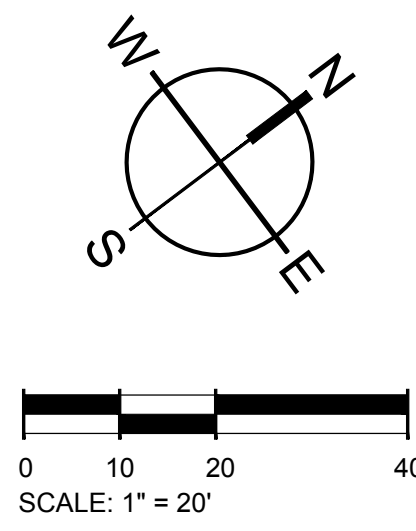
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TOTAL SITE ACREAGE
1.82 ACRES

DISTURBED ACREAGE
2.02 ACRES

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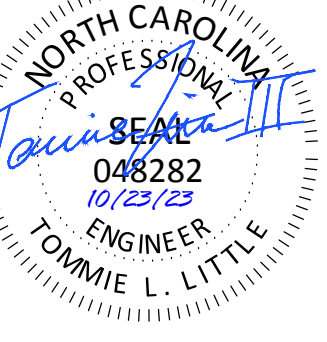


E&S PLAN LEGEND

LIMITS OF DISTURBANCE	---	CONCRETE WASHOUT BASIN (SEE DETAIL)	CW
SILT FENCE, STANDARD	—	DANDY SACK INLET PROTECTION	⊙
SILT FENCE OUTLET/RIP RAP APRON/RIP RAP BASIN & ROCK SEDIMENT TRAP	⊞	HARDWARE CLOTH AND GRAVEL INLET PROTECTION	⊞
CONSTRUCTION ENTRANCE	⊞	TEMPORARY SEEDING	⊙
PERMANENT SOD	⊙		



501 WANDOPARKBOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29546 | JUDSON MILLS BUILDING 6000, 701 EASLEY BROOK RD, SUITE 6000, GREENVILLE, SC 29611 | 230 PETERSON DR., CHARLOTTE, NC 28217 | 710 N. CEDAR STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MORGAN AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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TIDAL WAVE AUTO SPA
ROLESVILLE, NC

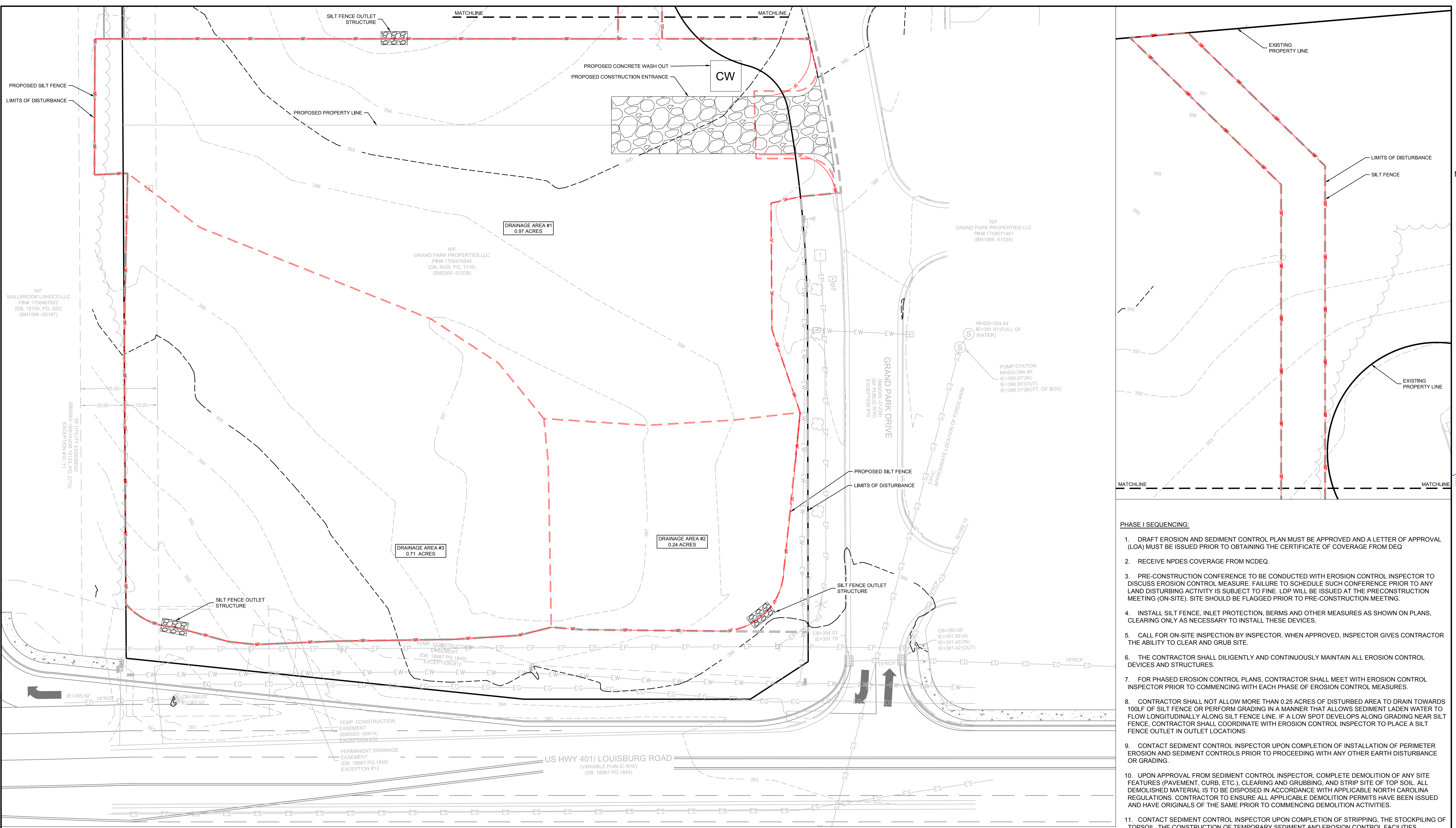
SW+ PROJECT: 10772
DATE: 10/30/23
DRAWN BY: CPE
CHECKED BY: DWJ

REVISION HISTORY

NO.	DESCRIPTION	DATE

EROSION CONTROL PHASE I

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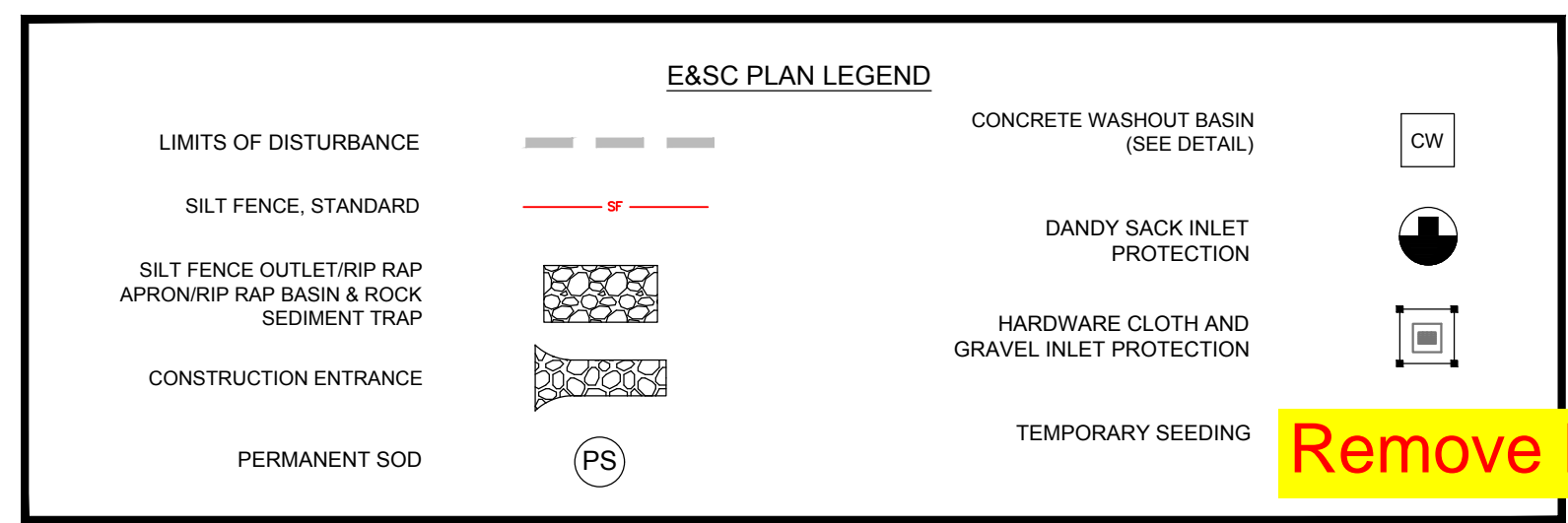
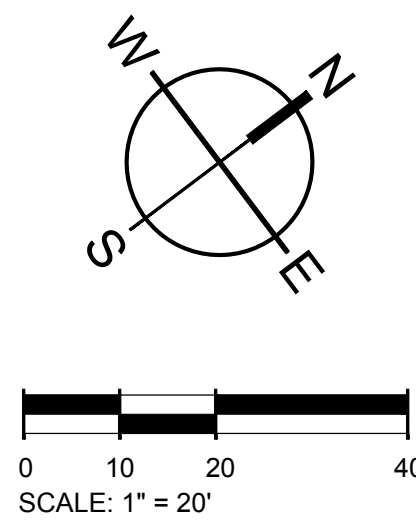
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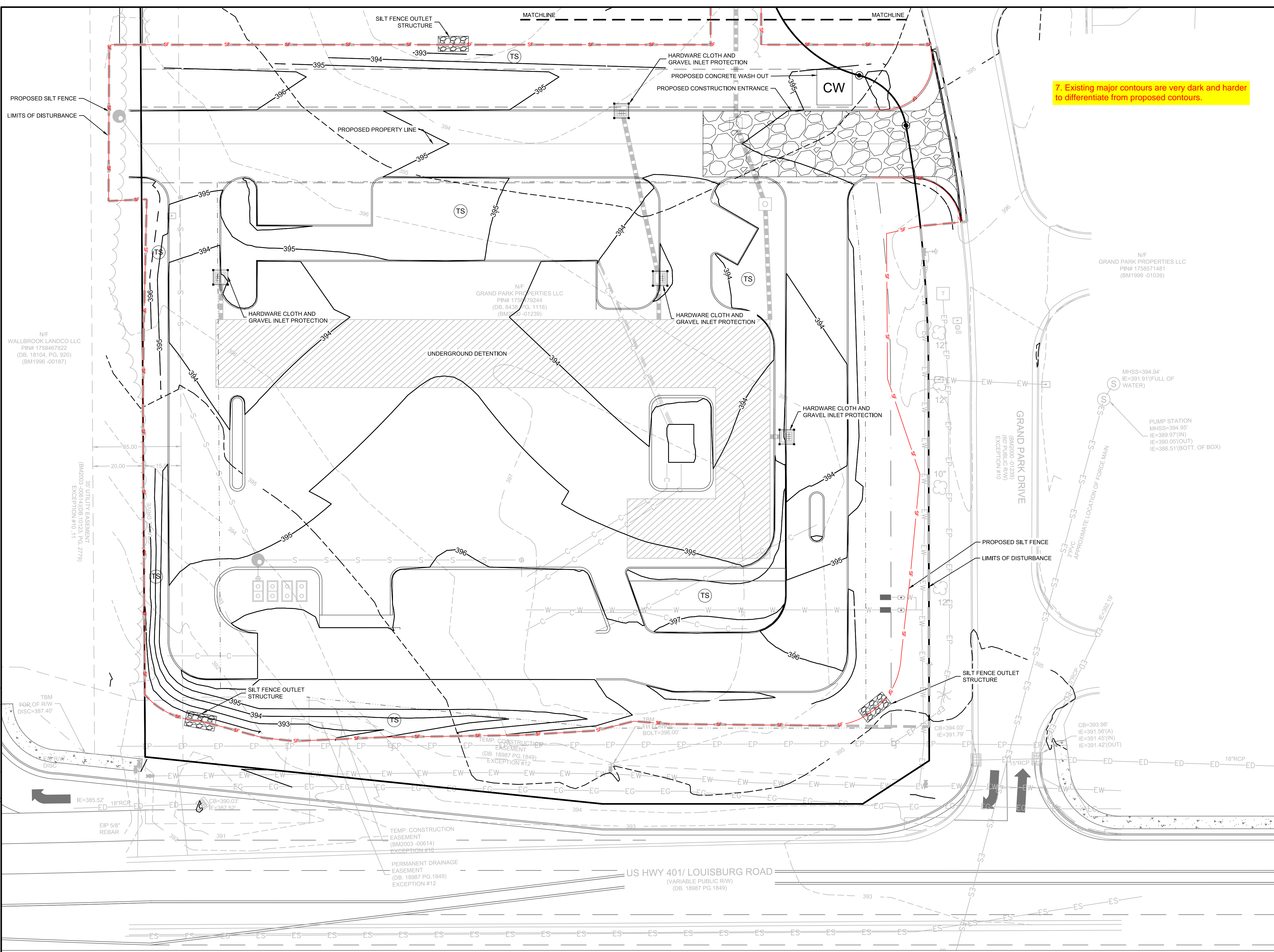
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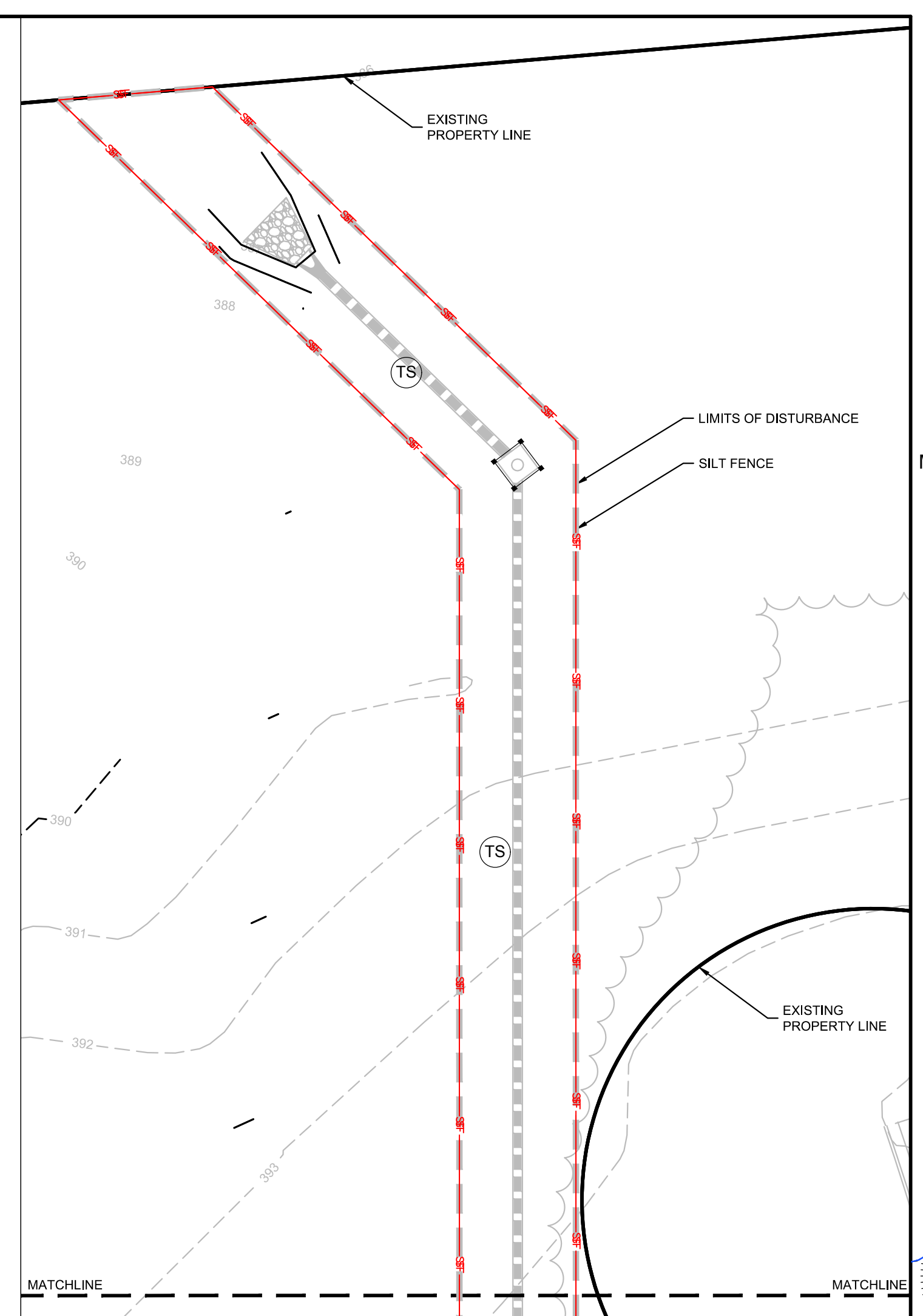
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7. Existing major contours are very dark and harder to differentiate from proposed contours.



PHASE II SEQUENCING:

- CONTACT SEDIMENT CONTROL INSPECTOR FOR APPROVAL TO PROCEED.
- TEMPORARILY STABILIZE GRADED AREAS (NON-STEEP SLOPES) AS REQUIRED.
- COMPLETE ROUGH GRADING. COMPLETE THE INSTALLATION OF STORMWATER SYSTEM AND SITE UTILITIES.
- CONTACT SEDIMENT CONTROL INSPECTOR UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE, OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS.
- INSTALL CURB ALONG THE PERIMETER OF THE SITE TO AID IN THE PROTECTION OF THE EXISTING ADJACENT PROPERTIES AND THE ADJACENT ROADWAYS.

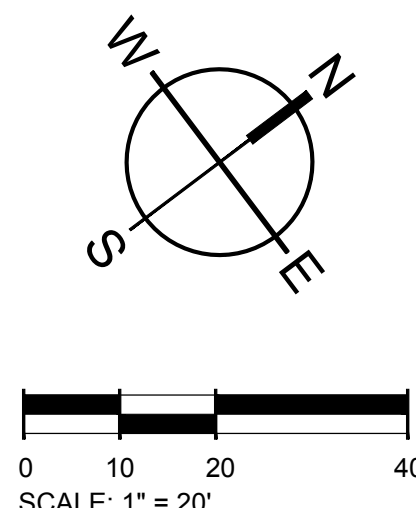
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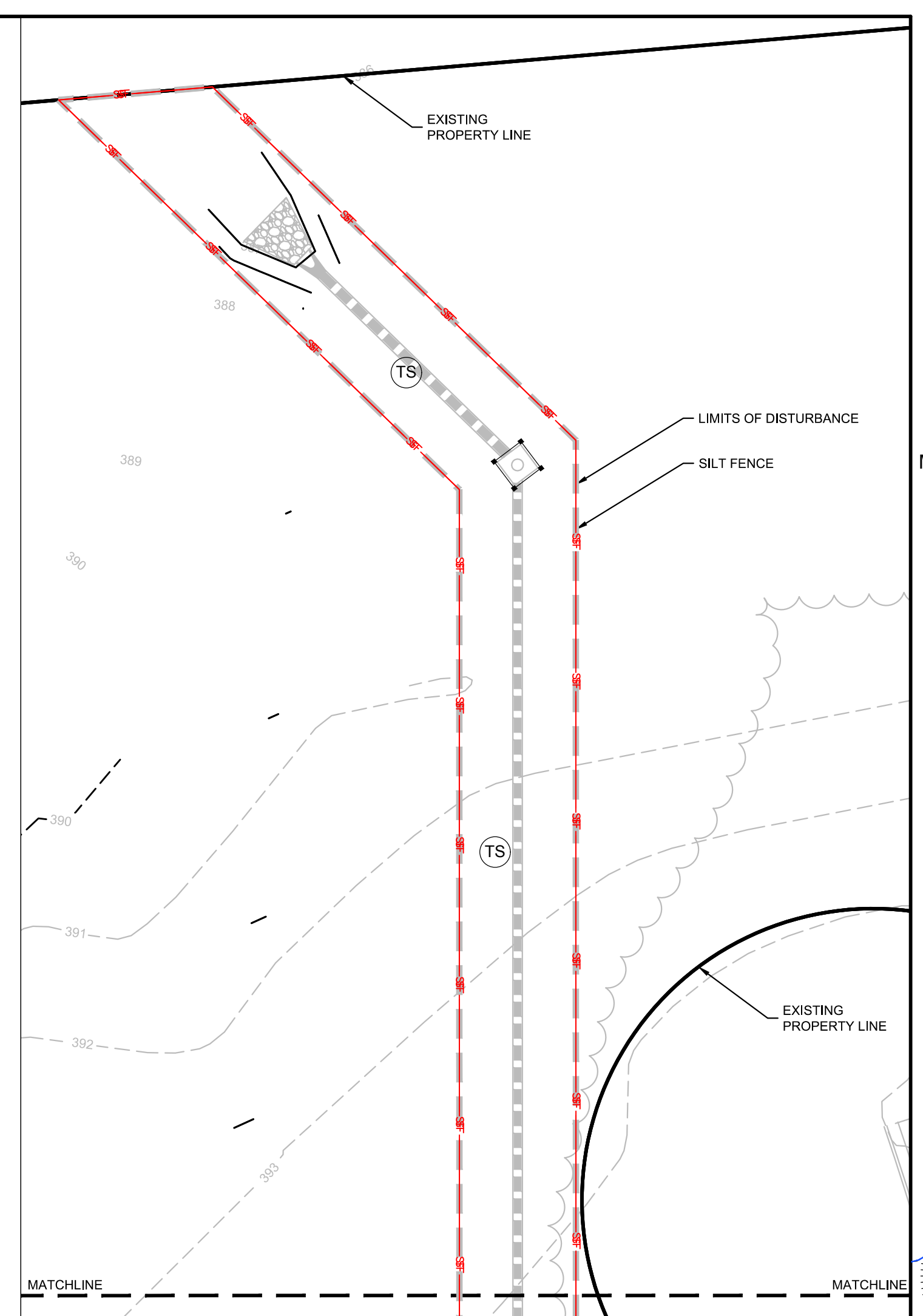
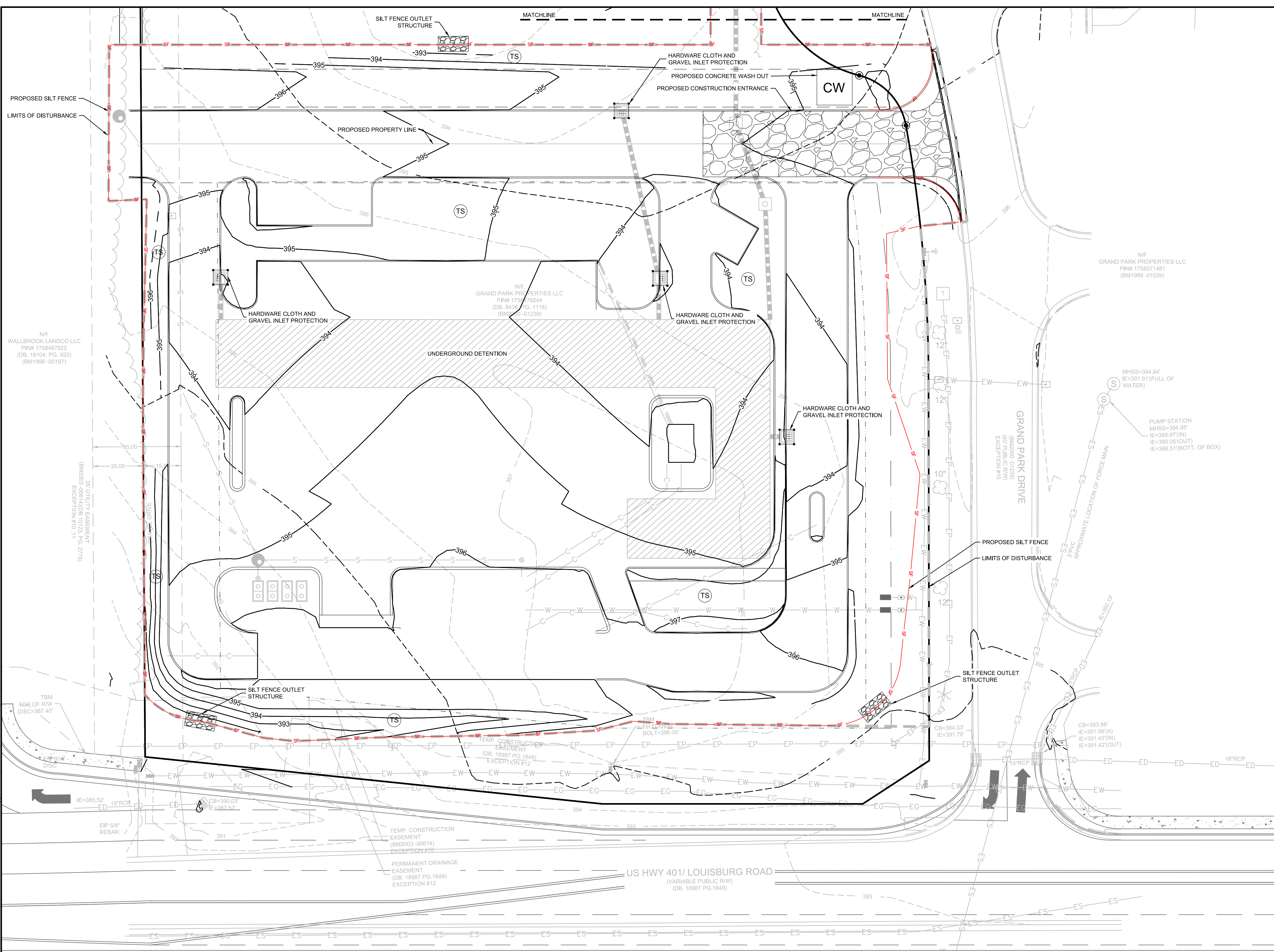


E&S PLAN LEGEND

LIMITS OF DISTURBANCE	CONCRETE WASHOUT BASIN (SEE DETAIL)	CW
SILT FENCE, STANDARD	DANDY SACK INLET PROTECTION	
SILT FENCE OUTLET/ RIP RAP APRON/ RIP RAP BASIN & ROCK SEDIMENT TRAP	HARDWARE CLOTH AND GRAVEL INLET PROTECTION	
CONSTRUCTION ENTRANCE	TEMPORARY SEEDING	TS
PERMANENT SOD		PS



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- PHASE II SEQUENCING:**
- CONTACT SEDIMENT CONTROL INSPECTOR FOR APPROVAL TO PROCEED.
 - TEMPORARILY STABILIZE GRADED AREAS (NON-STEEP SLOPES) AS REQUIRED.
 - COMPLETE ROUGH GRADING. COMPLETE THE INSTALLATION OF STORMWATER SYSTEM AND SITE UTILITIES.
 - CONTACT SEDIMENT CONTROL INSPECTOR UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE, OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS.
 - INSTALL CURB ALONG THE PERIMETER OF THE SITE TO AID IN THE PROTECTION OF THE EXISTING ADJACENT PROPERTIES AND THE ADJACENT ROADWAYS.

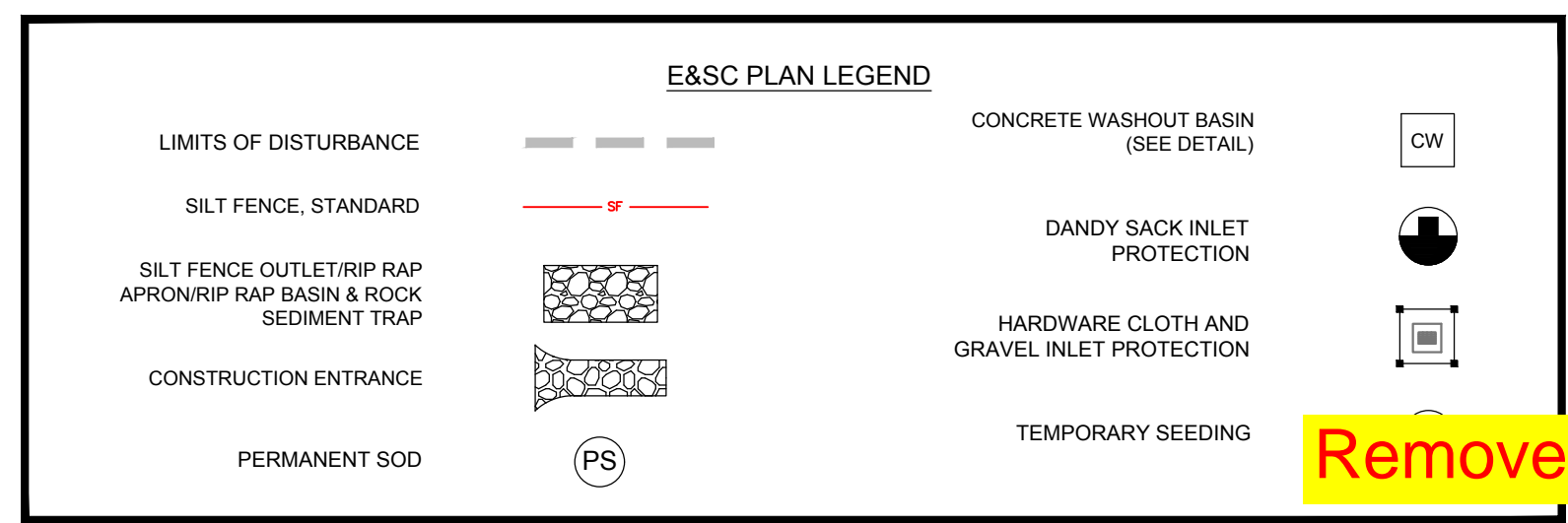
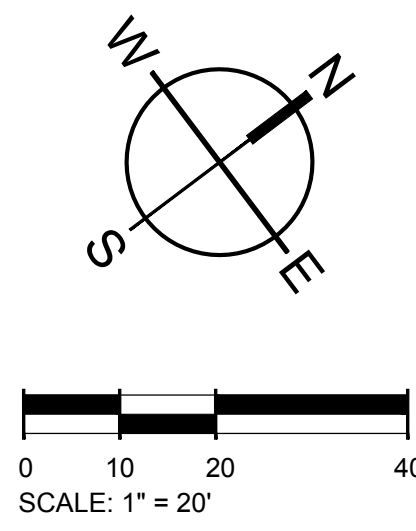
INLET PROTECTION NOTE:
PROVIDE APPROPRIATE INLET PROTECTION FOR VARIOUS PHASES OF THE CONSTRUCTION. HARDWARE CLOTH AND GRAVEL INLET PROTECTION SHALL BE PROVIDED FOR INLETS IN NON-PAVED AREA. DANDY SACK INLET PROTECTION SHALL BE PROVIDED FOR INLETS IN PAVED AREAS.

TOTAL SITE ACREAGE
1.82 ACRES

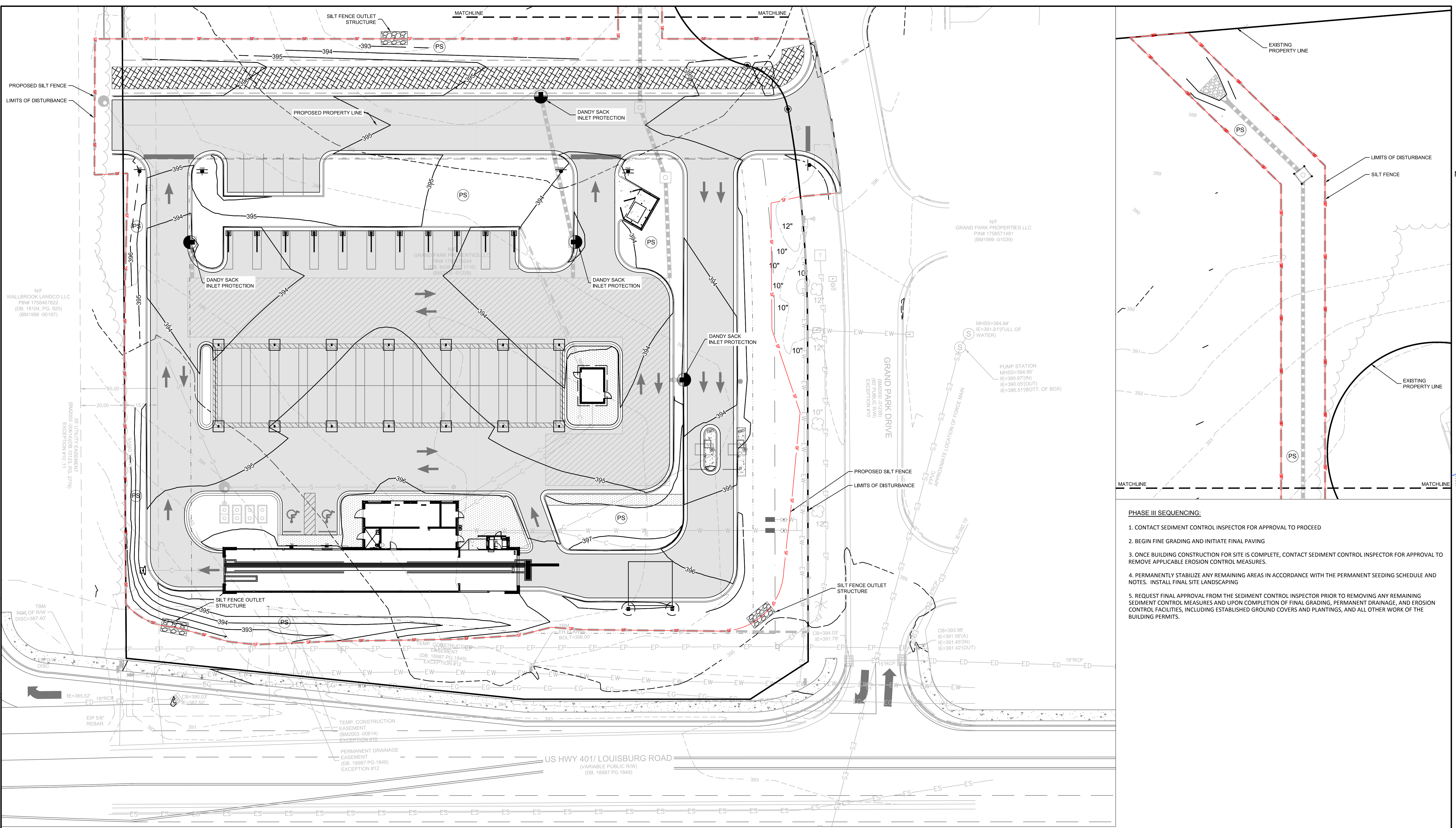
DISTURBED ACREAGE
2.02 ACRES

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 DETERMINE 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.

STABILIZATION NOTE:
PROVIDE FINAL STABILIZATION FOR ALL DISTURBED AREAS. REFER TO THE LANDSCAPE PLAN FOR SPECIFIC MATERIALS / PLANTINGS. ANY DISTURBED AREA NOT ADDRESSED IN THE LANDSCAPE PLANS SHALL BE PERMANENT SEEDED.



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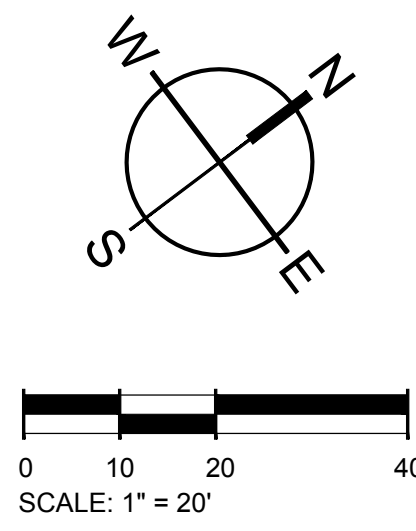
- PHASE III SEQUENCING:**
1. CONTACT SEDIMENT CONTROL INSPECTOR FOR APPROVAL TO PROCEED
 2. BEGIN FINE GRADING AND INITIATE FINAL PAVING
 3. ONCE BUILDING CONSTRUCTION FOR SITE IS COMPLETE, CONTACT SEDIMENT CONTROL INSPECTOR FOR APPROVAL TO REMOVE APPLICABLE EROSION CONTROL MEASURES.
 4. PERMANENTLY STABILIZE ANY REMAINING AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING SCHEDULE AND NOTES. INSTALL FINAL SITE LANDSCAPING
 5. REQUEST FINAL APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR PRIOR TO REMOVING ANY REMAINING SEDIMENT CONTROL MEASURES AND UPON COMPLETION OF FINAL GRADING, PERMANENT DRAINAGE, AND EROSION CONTROL FACILITIES, INCLUDING ESTABLISHED GROUND COVERS AND PLANTINGS, AND ALL OTHER WORK OF THE BUILDING PERMITS.

TOTAL SITE ACREAGE
1.82 ACRES

DISTURBED ACREAGE
2.02 ACRES

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 DETERMINE 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.

STABILIZATION NOTE:
PROVIDE FINAL STABILIZATION FOR ALL DISTURBED AREAS. REFER TO THE LANDSCAPE PLAN FOR SPECIFIC MATERIALS / PLANTINGS. ANY DISTURBED AREA NOT ADDRESSED IN THE LANDSCAPE PLANS SHALL BE PERMANENT SEEDDED.



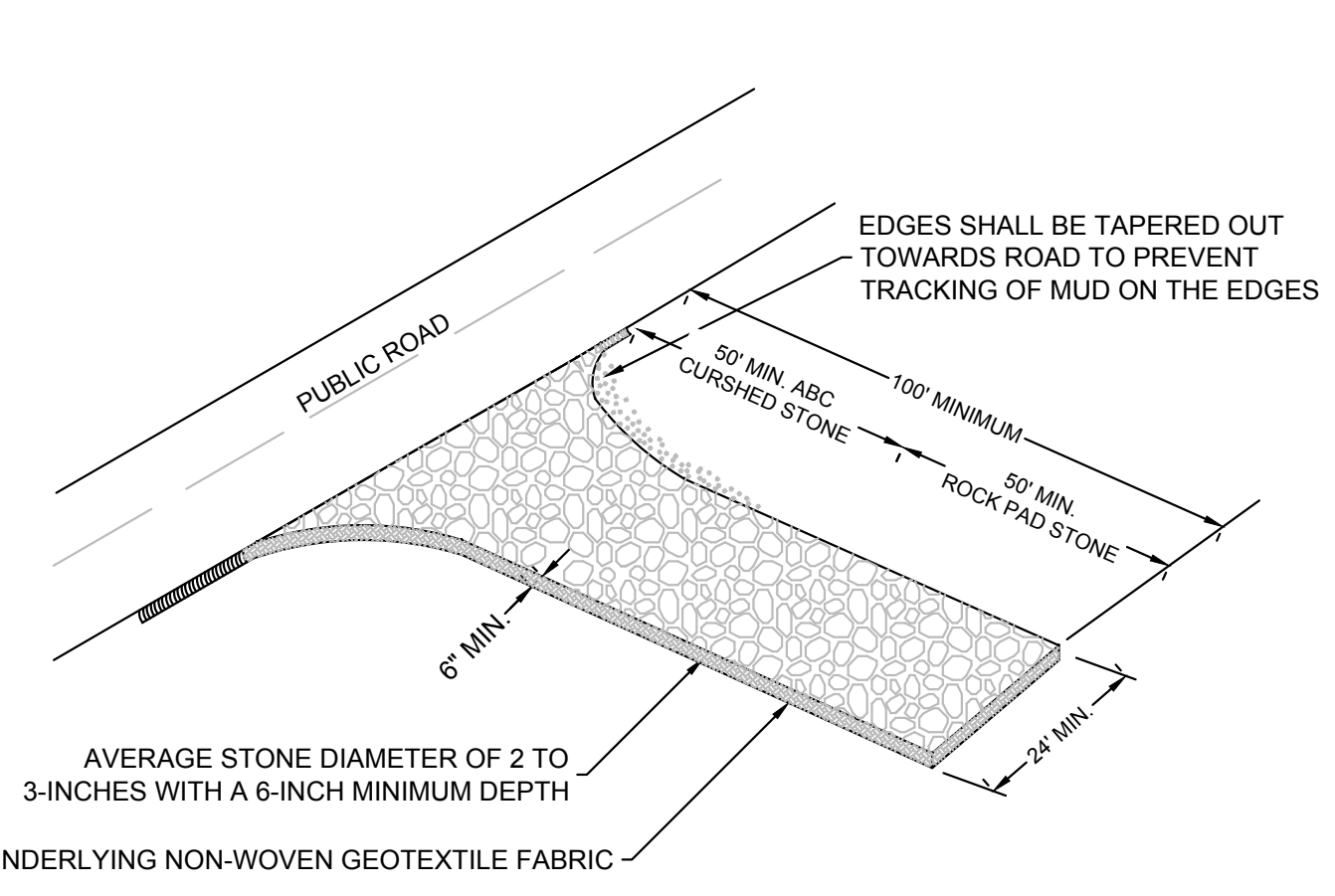
E&S PLAN LEGEND

LIMITS OF DISTURBANCE	CONCRETE WASHOUT BASIN (SEE DETAIL)	CW
SILT FENCE, STANDARD	DANDY SACK INLET PROTECTION	DS
SILT FENCE OUTLET/RIP RAP APRON/RIP RAP BASIN & ROCK SEDIMENT TRAP	HARDWARE CLOTH AND GRAVEL INLET PROTECTION	HC
CONSTRUCTION ENTRANCE	TEMPORARY SEEDING	PS
PERMANENT SOD		



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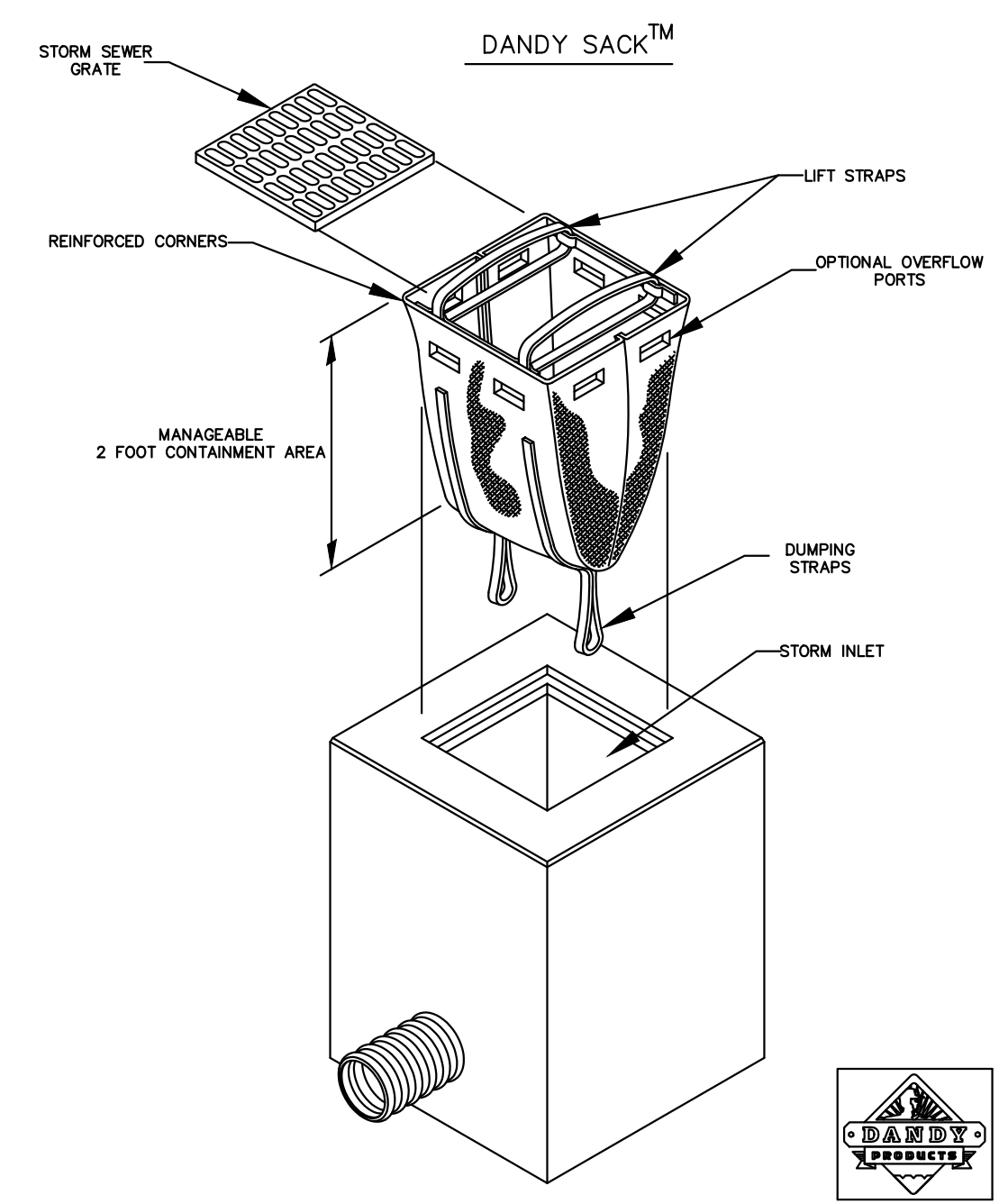


SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES
ABC STONE SIZE	D = 1-1.5 INCHES

1 Temporary Construction Entrance
SCALE: NOT TO SCALE

- CONSTRUCTION ENTRANCE - INSPECTION & MAINTENANCE**
- THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
 - AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPs BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPs.
 - 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.

- 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.



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:

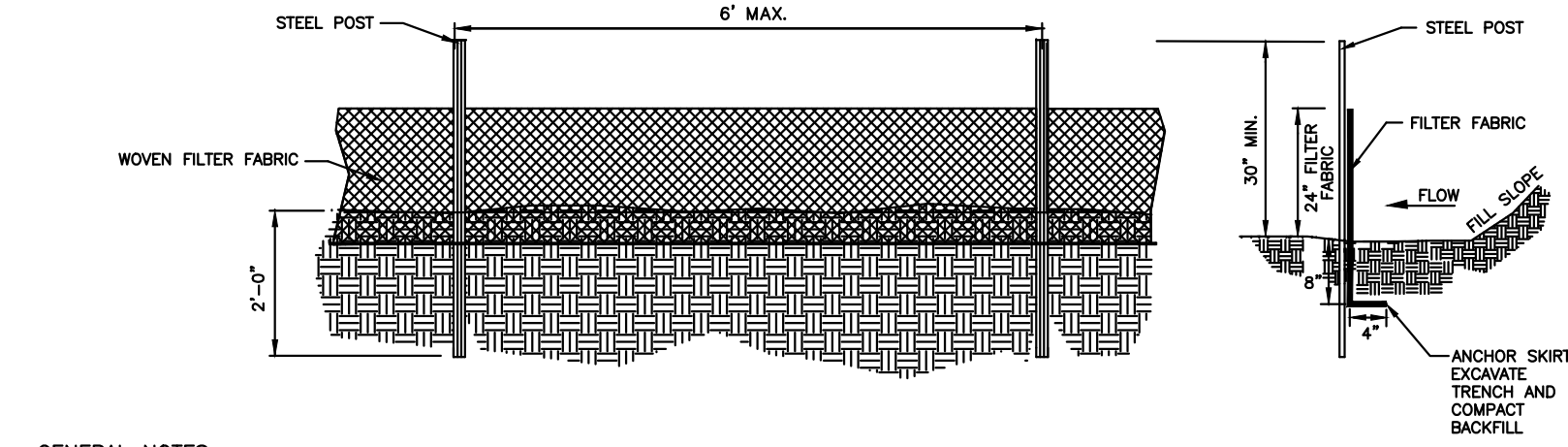
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kn (lbf)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kn (lbf)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5068 (800)
Trapezoid Tear Strength	ASTM D 4533	kn (lbf)	0.67 (150) x 0.73 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m²	2852 (70)
Permittivity	ASTM D 4491	(gs/min/ft²)	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kn (lbf)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kn (lbf)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kn (lbf)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m²	5907 (145)
Permittivity	ASTM D 4491	(gs/min/ft²)	2.1

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

8 Dandy Bags
SCALE: NOT TO SCALE

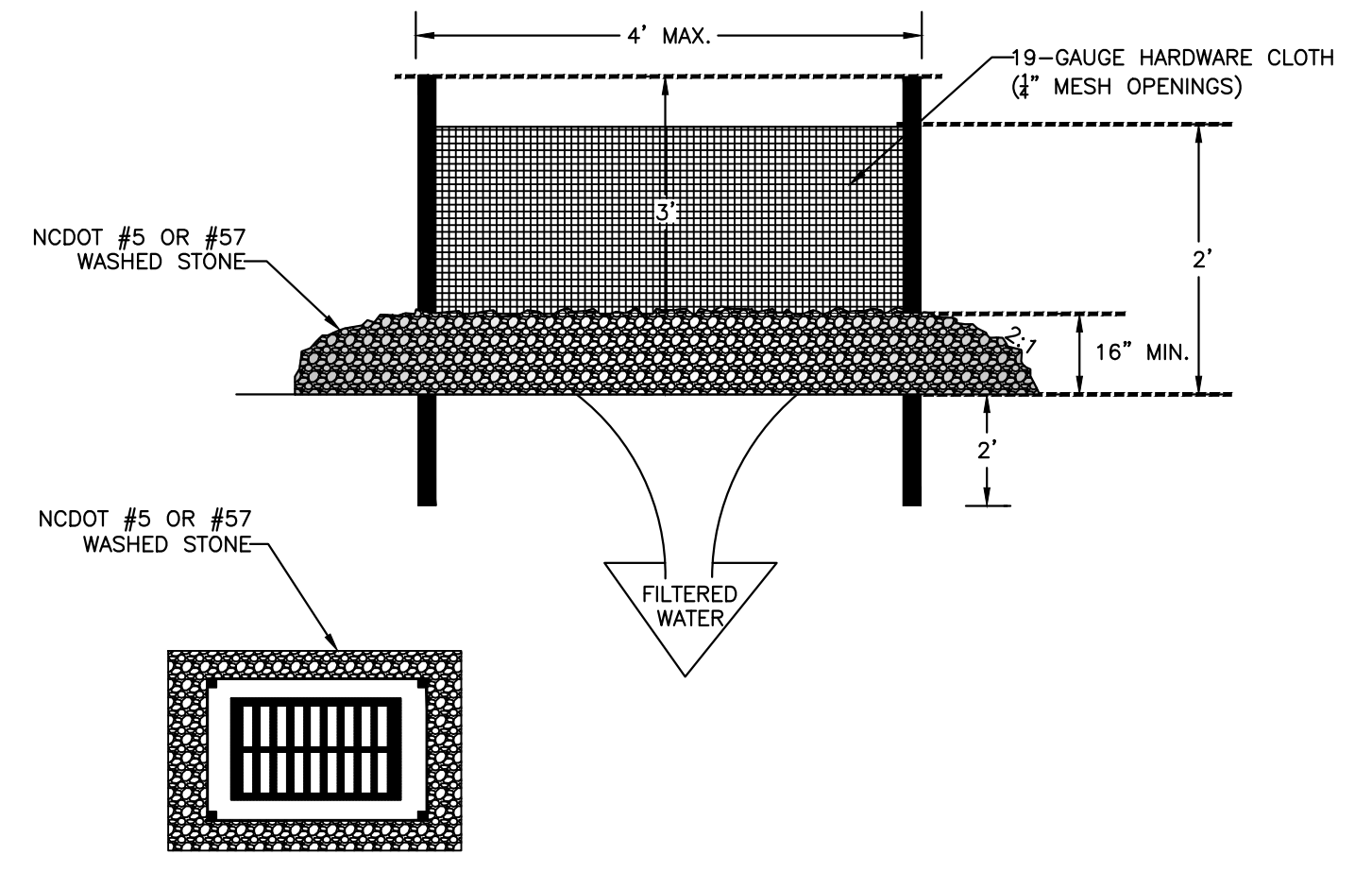


- GENERAL NOTES:**
- WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
 - STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
 - TURN SILT FENCE UP SLOPE AT ENDS.
 - DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
 - SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
 - DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.
- MAINTENANCE NOTES:**
- FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
 - SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

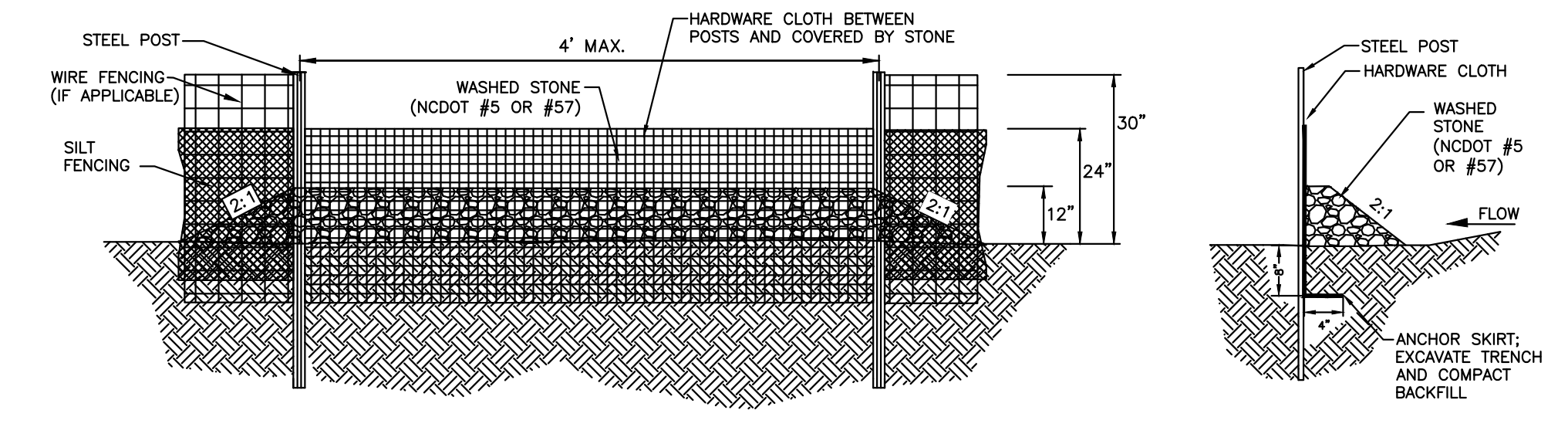
4 Temporary Silt Fence
SCALE: NOT TO SCALE

GENERAL NOTES:

- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- PLACE CLEAN GRAVEL (NO DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.



5 Hardware Cloth and Gravel Inlet Protection
SCALE: NOT TO SCALE



- GENERAL NOTES:**
- SEDIMENT FILTER OUTLET HARDWARE CLOTH SHALL BE 24" HIGH AND STONE SHALL BE A MINIMUM OF 12" HIGH.
 - HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEYED IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE SAME AS REINFORCED/HIGH HAZARD SILT FENCE (19 GAUGE, 1/4" SPACING).
 - POSTS SHALL BE NO MORE THAN 4 FEET APART.
 - SITE OUTLETS AT LOW AREAS IN CONJUNCTION WITH AND ALONG LONG RUNS OF SILT FENCE AT INTERVALS NO CLOSER THAN 100 FEET. DRAINAGE AREA TO OUTLETS SHALL NOT EXCEED 1/4 ACRE.
 - EQUIVALENT ALTERNATIVES MAY BE USED WITH PRIOR CITY APPROVAL.
- MAINTENANCE NOTES:**
- FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
 - THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

6 Silt Fence Outlet
SCALE: NOT TO SCALE

FOR LATE WINTER AND EARLY SPRING:

SEEDING MIXTURE:
RYE (GRAIN) - 120 LB/ACRE
ANNUAL LESPEDEZA (KOBE) - 50 LB/ACRE (OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE)

SEEDING DATES:
JAN. 1 - MAY 1

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FOR SUMMER:

SEEDING MIXTURE:
GERMAN MILLET - 40 LB/ACRE (A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

SEEDING DATES:
MAY 1 - AUG. 15

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FOR FALL:

SEEDING MIXTURE:
RYE (GRAIN) - 120 LB/ACRE

SEEDING DATES:
AUG. 15 - DEC 30

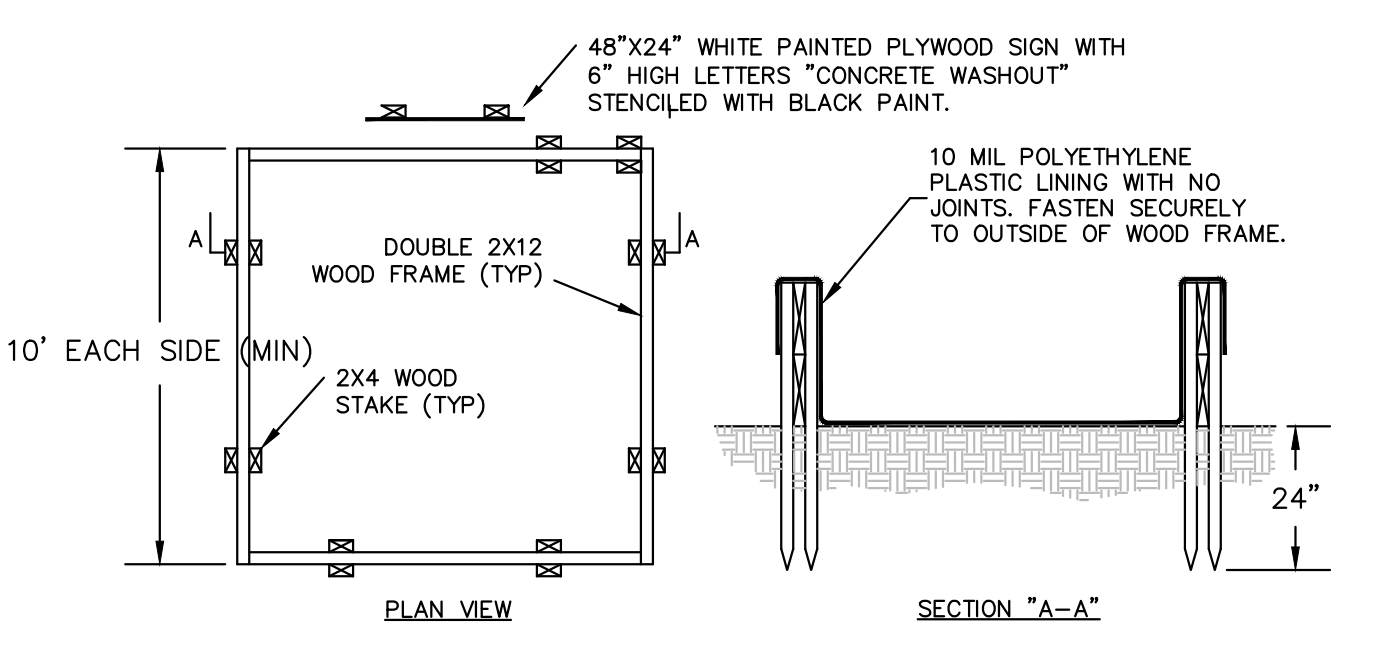
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

FOR ADDITIONAL INFORMATION, REFER TO NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE RATES OF APPLICATION OF LIMESTONE, FERTILIZER, AND SEED, REFER TO NCDENR ESCPDM SECTION 6.11.

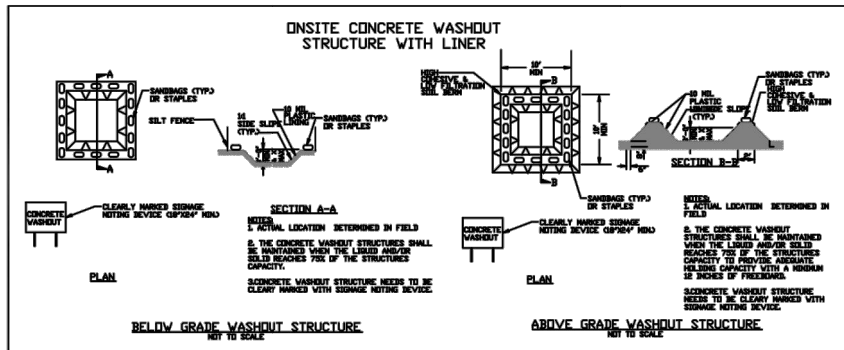
7 Temporary Seeding Schedule
SCALE: NOT TO SCALE



- 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 6" BELOW THE TOP.

3 Concrete Washout Basin
SCALE: NOT TO SCALE

501 WINDY PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29564 | JUDSON MILLS BUILDING #600, 701 EASLEY BRIDGE RD, SUITE #600 | GREENVILLE, SC 29611 | 230 PETERSON DR. | SPARTANBURG, SC 29661 | 104 N. DANIEL MCGOWAN AVENUE, SUITE 300 | SPARTANBURG, SC 29661



- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle steel, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove loadings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining loadings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
 - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
 - Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
 - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
 - Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
 - Anchor all lightweight items in waste containers during times of high winds.
 - Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
 - Dispose waste off-site at an approved disposal facility.
 - On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
 - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Contain liquid wastes in a controlled area.
 - Containment must be labeled, sized and placed appropriately for the needs of site.
 - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
 - Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown that no other alternatives are reasonably available.
 - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
 - Provide stable stone access point when feasible.
 - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed. -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	
(e) Areas with slopes flatter than 4:1	14	

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

- POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**
- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
 - Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
 - Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
 - Provide ponding area for containment of treated Stormwater before discharging offsite.
 - Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 313 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 148-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 856-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list, as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the Federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)(1)-(4) above	<ul style="list-style-type: none"> Anticipated bypasses (40 CFR 122.41(m)(7)) Unanticipated bypasses (40 CFR 122.41(m)(8))
(c) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(n)(7))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. The notification shall include an evaluation of the anticipated quality and effect of the bypass. Within 7 calendar days, a report that contains a description of the noncompliance, and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. (40 CFR 122.41(n)(8)). Division staff may waive the requirement for a written report on a case-by-case basis.



EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S plan.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- Documentation to be Retained for Three Years
All data used to complete the e-NCR and all inspection records shall be maintained for a period of three years after project completion and made available upon request. (40 CFR 122.41)

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurements for those unattended days (and the wettest day if a rain gauge is removed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-measuring device approved by the Division. 1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken.
(2) Stormwater discharge outfalls (SDCO)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollutants such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(3) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(4) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2)(a) of this permit.
(5) Ground stabilization measures	After each phase of grading	1. The phases of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframes or as soon as they will be provided as soon as possible.

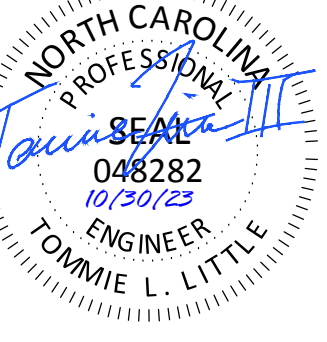
NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION 6, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices.
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING



TIDAL WAVE AUTO SPA
ROLESVILLE, NC

SW+ PROJECT: 10772
DATE: 10/30/23
DRAWN BY: CPE
CHECKED BY: DWJ

REVISION HISTORY

NO.	DESCRIPTION

SITE PLAN

C5.1

SITE INFORMATION:

ADDRESS: ROLESVILLE, NC
PROPERTY AREA: 1.82 ACRES
PARCEL: 1758479244
EXISTING USE: UNDEVELOPED
PROPOSED USE: CAR WASH

PROPERTY ZONING: GI-CZ (GENERAL INDUSTRIAL - CONDITIONAL ZONING)

BUILDING SETBACKS:

FRONT (SE):	30'
FRONT (NE):	25'
SIDE (NW):	15'
SIDE (SW):	30'

PERIMETER LANDSCAPE YARDS:
NORTHEAST: 15'

PRE VS. POST DEVELOPMENT AREA:

SITE AREA:	1.82 AC
PRE-IMPERVIOUS AREA:	0.04 AC (2.20%)
POST-IMPERVIOUS AREA:	1.29 AC (70.88%)

PARKING NOTE:

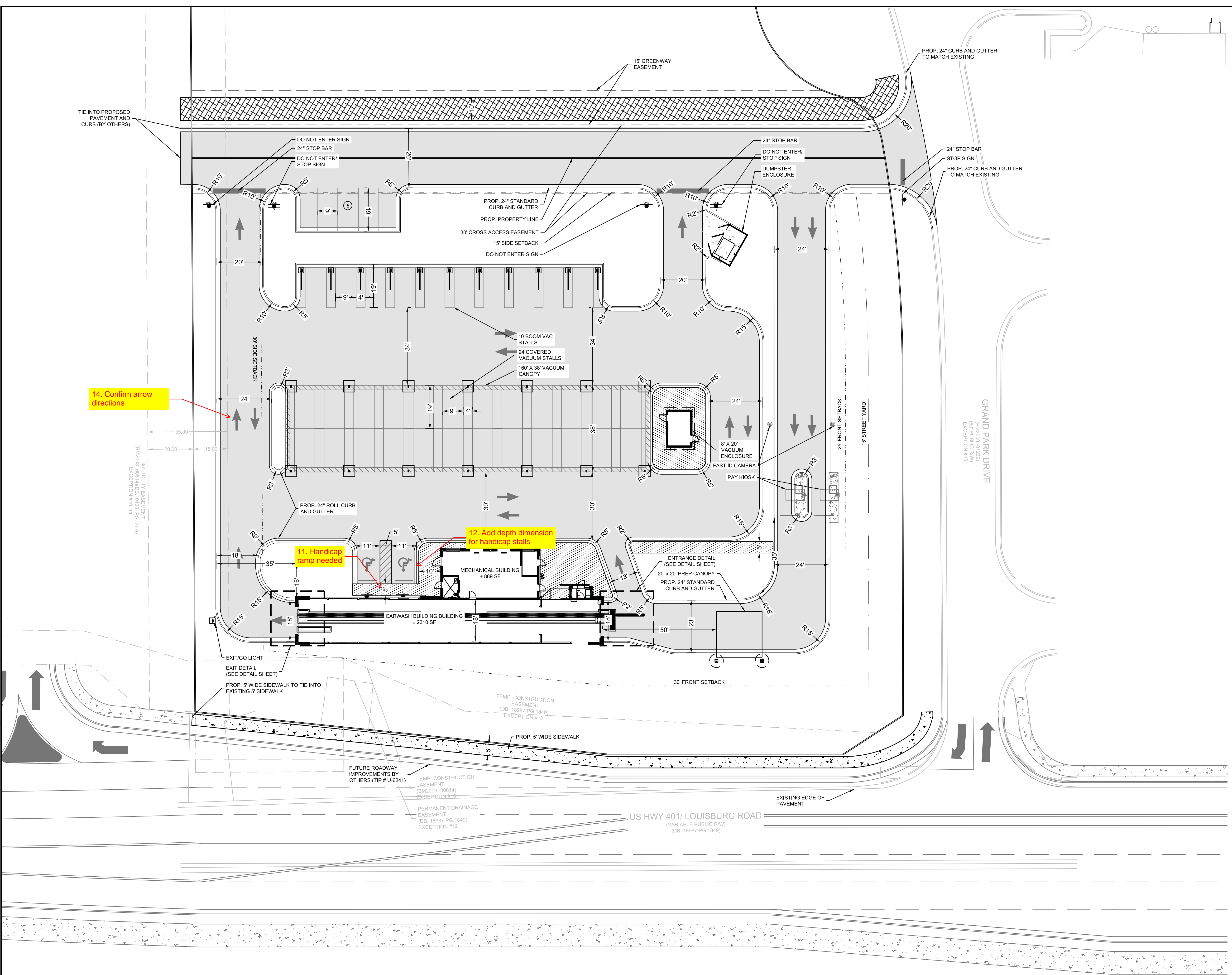
PARKING REQUIRED:
1 SPACE PER 400 SF GFA OR 5 SPACES MINIMUM = 5 SPACES

PARKING PROVIDED:
EMPLOYEE SPACES: 5 SPACES (1 ADA)
(4 MAX ON SHIFT)
VACUUM STALLS: 34 STALLS

SITE LAYOUT AND STAKING NOTES:

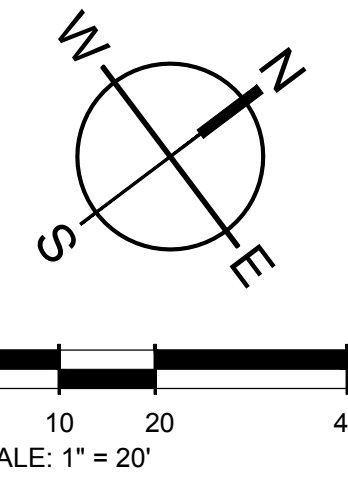
- CONTRACTOR SHALL CAREFULLY EXAMINE ALL DOCUMENTS AND THE CONSTRUCTION SITE TO OBTAIN FIRST HAND KNOWLEDGE OF EXISTING CONDITIONS.
- ENTIRE SITE SHALL BE DRESSED TO UNIFORM, WELL DRAINED AND VISUALLY APPEALING SURFACE WITH A MINIMUM TOPSOIL LAYER OF FOUR INCHES.
- ALL STRIPING AND SIGNS SHALL CONFORM WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION. PARKING STALL STRIPING TO BE WHITE WITH BLUE HANDICAPPED STRIPING.
- ALL HANDICAP PARKING SPACED AND ACCESSIBLE ROUTE SHALL CONFORM WITH THE AMERICAN WITH DISABILITY ACT DESIGN GUIDELINES AND SPECIFICATIONS LATEST EDITION.
- DIMENSIONS AND CURVE RADII ARE GIVEN TO FACE OF CURB, WHERE CURB AND GUTTER IS SHOWN. OTHERWISE DIMENSIONS ARE GIVEN TO THE EDGE OF PAVEMENT. CONTRACTOR IS TO COORDINATE WITH THE ARCHITECTURAL PLANS AS TO THE BUILDING LAYOUT AND DIMENSIONS.

13. Please provide fire truck and trash truck movement exhibit due to ingress and egress route running through the car wash.
14. Confirm arrow directions for directions of traffic flows.

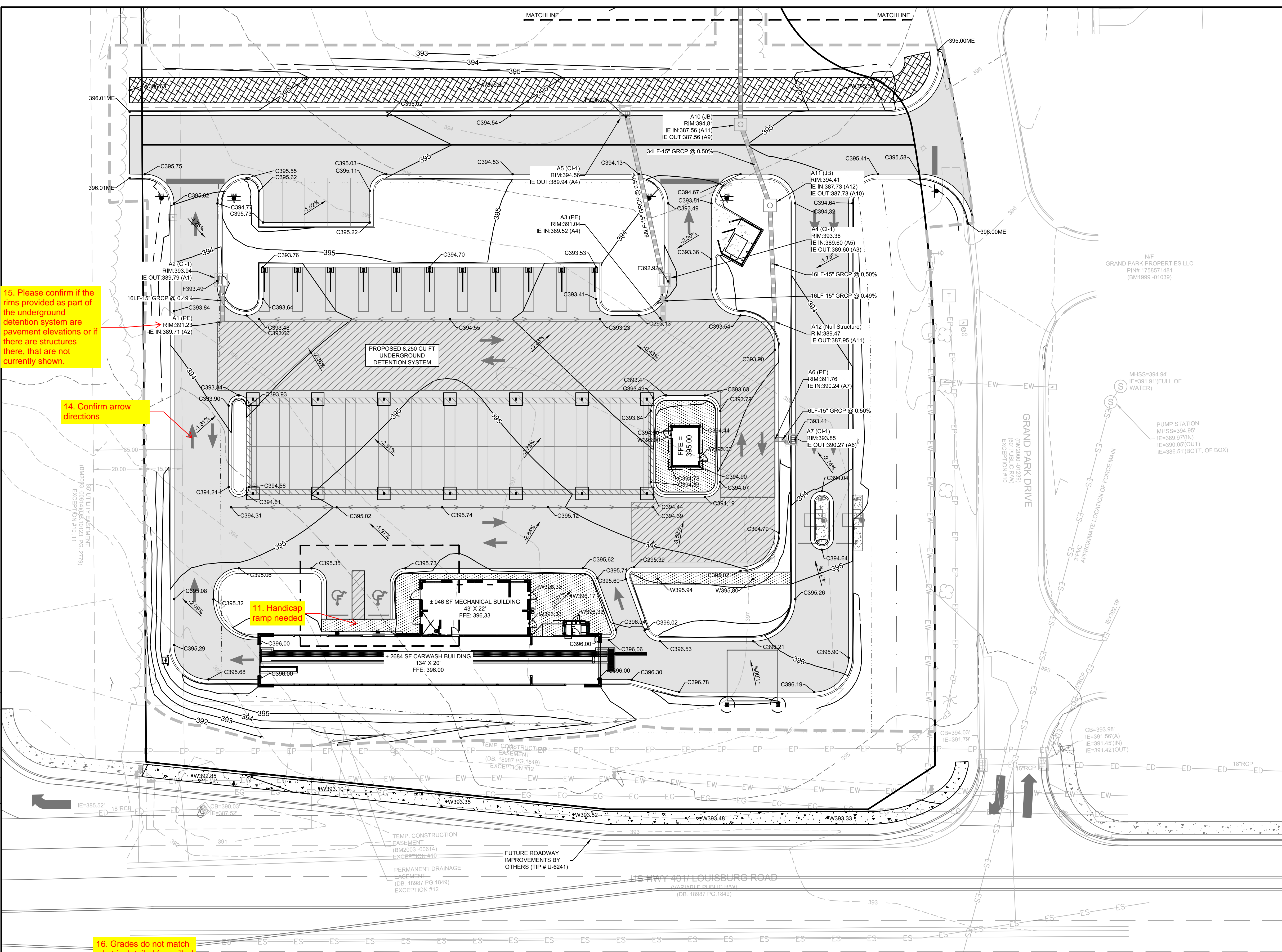


SITE LEGEND

	PROPOSED SIDEWALK
	HEAVY DUTY CONCRETE PAVEMENT
	STANDARD DUTY CONCRETE PAVEMENT
	ASPHALT GREENWAY
	STOP SIGN
	DO NOT ENTER SIGN
	HANDICAP PARKING SIGN



501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29546 | JUDSON MILLS BUILDING 6000, 701 EASLEY BROOK RD, SUITE 6000, GREENVILLE, SC 29611 | 230 PETERSON DR., CHARLOTTE, NC 28217 | 710 N. CEDAR STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MORGAN AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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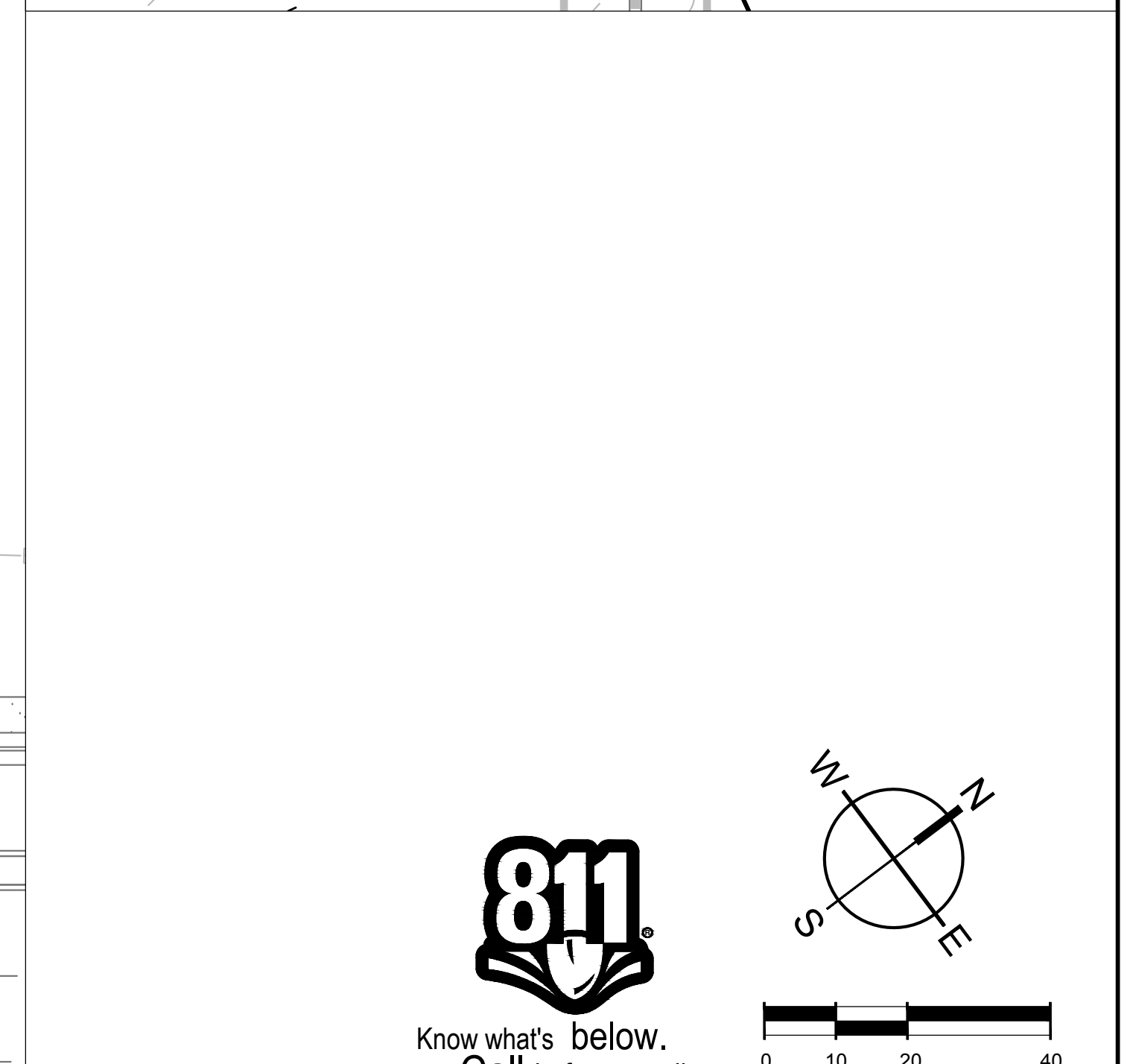
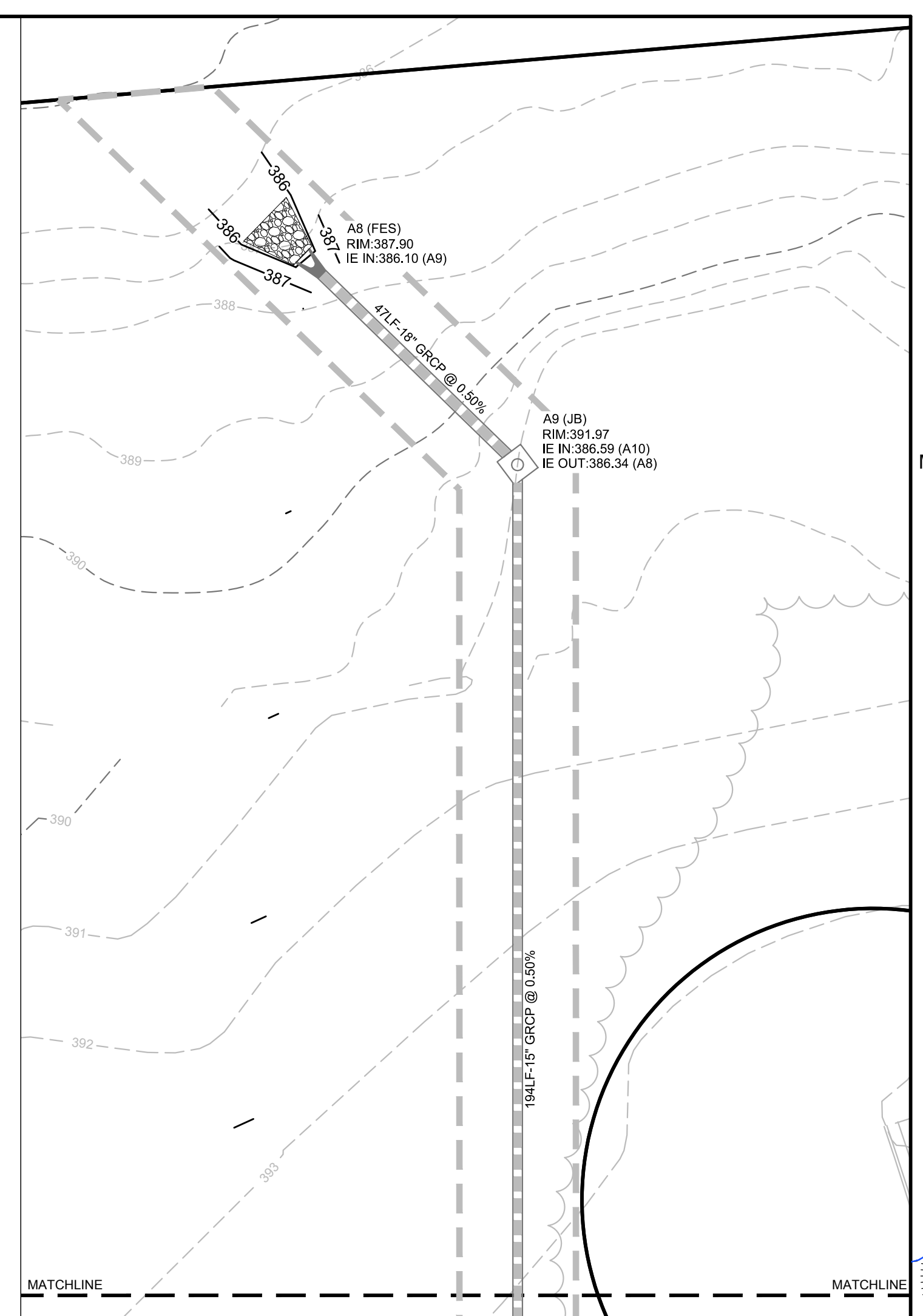
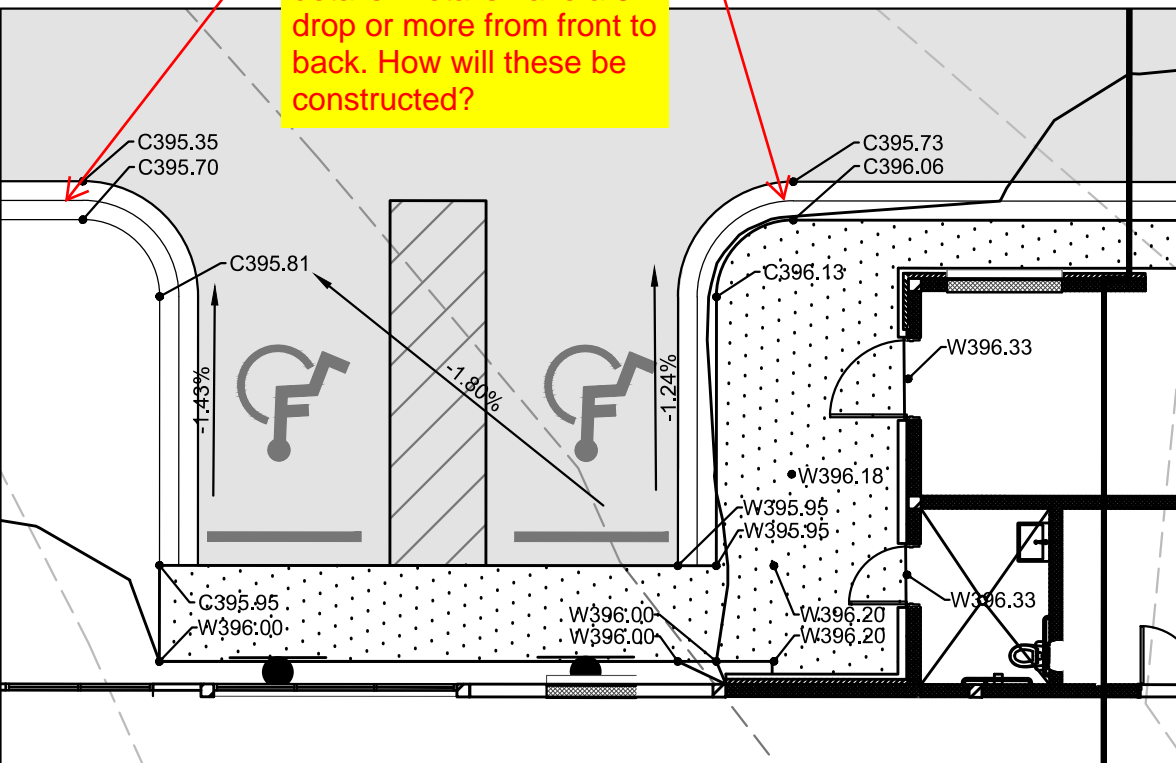
15. Please confirm if the rims provided as part of the underground detention system are pavement elevations or if there are structures there, that are not currently shown.

14. Confirm arrow directions

11. Handicap ramp needed

16. Grades do not match what is detailed for spilled curb in the standard details. Details have a 6" drop or more from front to back. How will these be constructed?

NOTES:
1. THE LONGITUDINAL SLOPE OF ALL SURFACES ALONG THE ADA ACCESSIBLE ROUTE, WHICH ARE NOT SPECIFICALLY NOTED AS BEING A RAMP, SHALL NOT EXCEED 1:20. RAMPS SHALL NOT EXCEED A SLOPE OF 1:12. TRANSVERSE SLOPES SHALL NOT EXCEED 1:50. CONTRACTOR SHALL FIELD VERIFY SLOPES BEFORE INSTALLATION AND NOTIFY ENGINEER IMMEDIATELY IF MAX. SLOPES ARE EXCEEDED.
2. AT PARKING SPACES AND ASSOCIATED ACCESS AISLES, SLOPE SHALL NOT EXCEED 1:50 IN ANY DIRECTION.



LEGEND

RCP DRAINAGE PIPE	
GRADING LIMITS	
HOODED CATCH BASIN (HCB)	
JUNCTION BOX (JB)	

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 PAVER SIDEWALK, 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

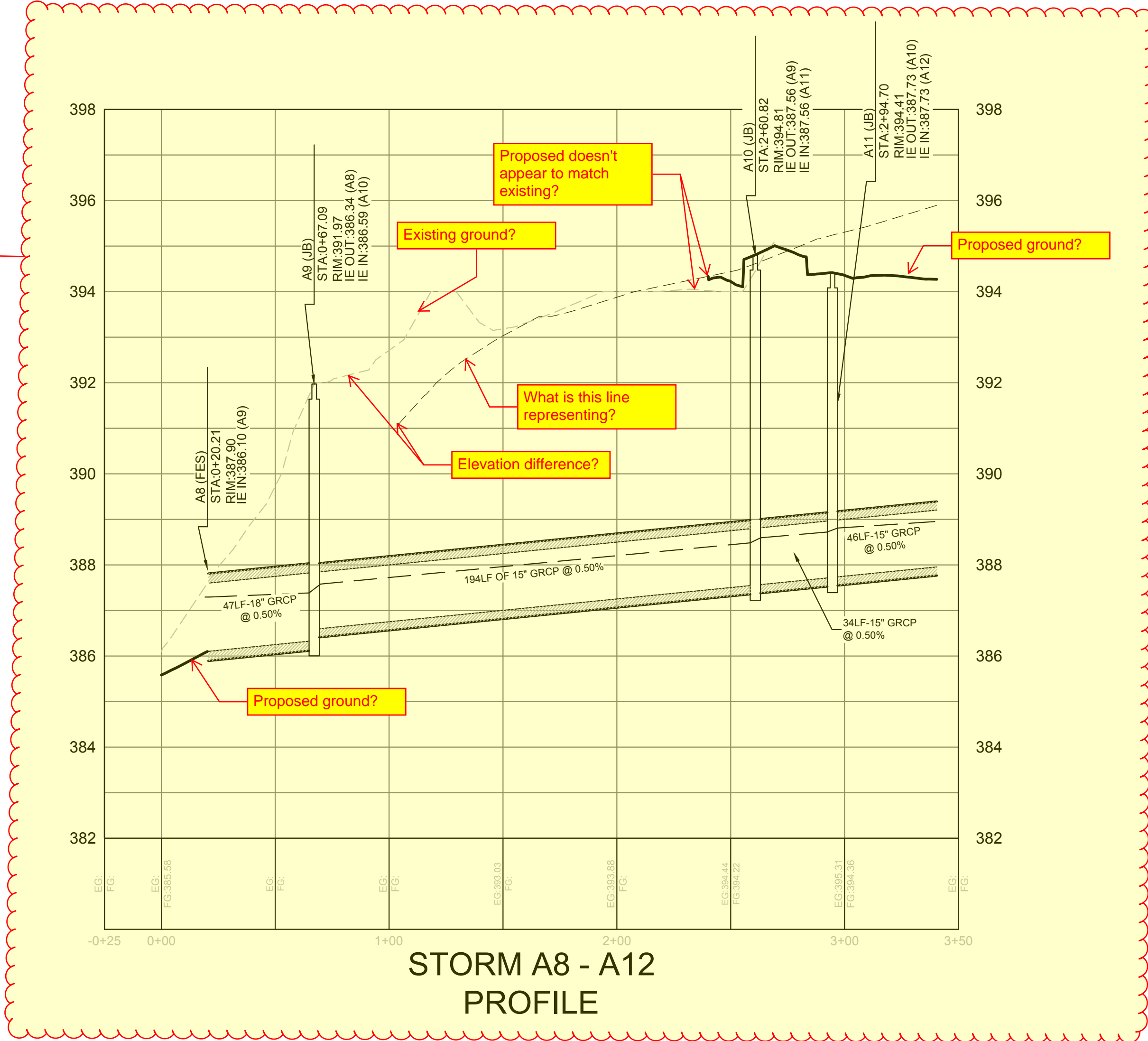
EXAMPLE: A12.56ME MEANS THAT THE SURFACE OF NEW ASPHALT IS TO BE AT ELEVATION 12.56 WHICH SHOULD MATCH THE ELEVATION OF THE EXISTING ASPHALT SURFACE AT THE JOINT

SW+ PROJECT: 10772
DATE: 10/30/23
DRAWN BY: CPE
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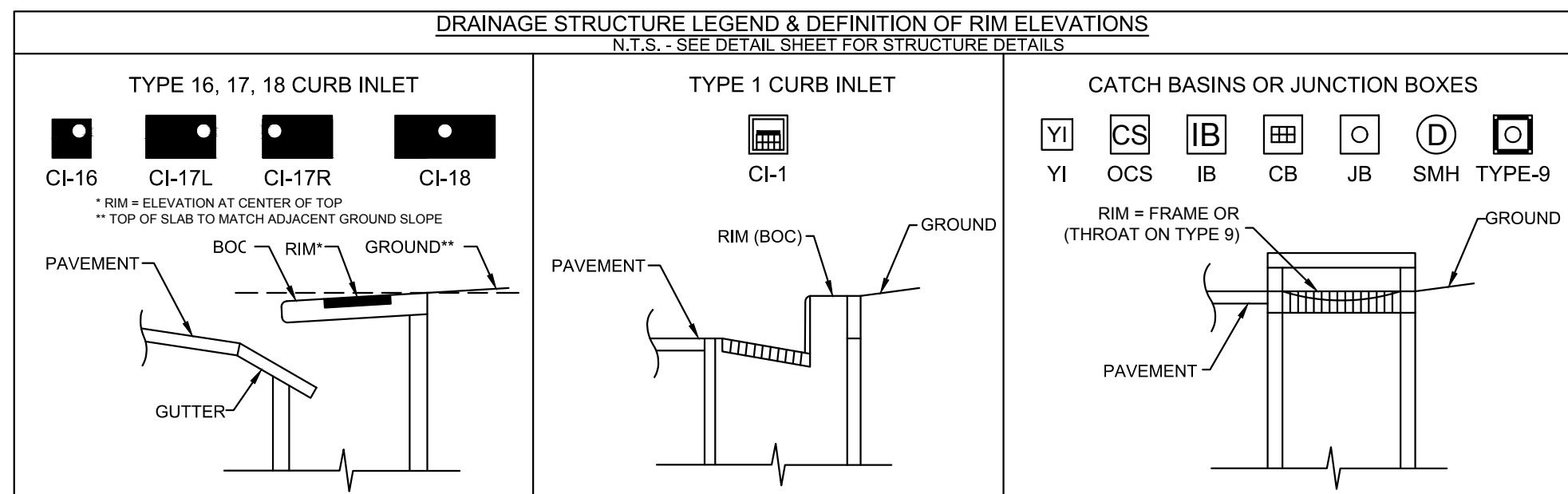
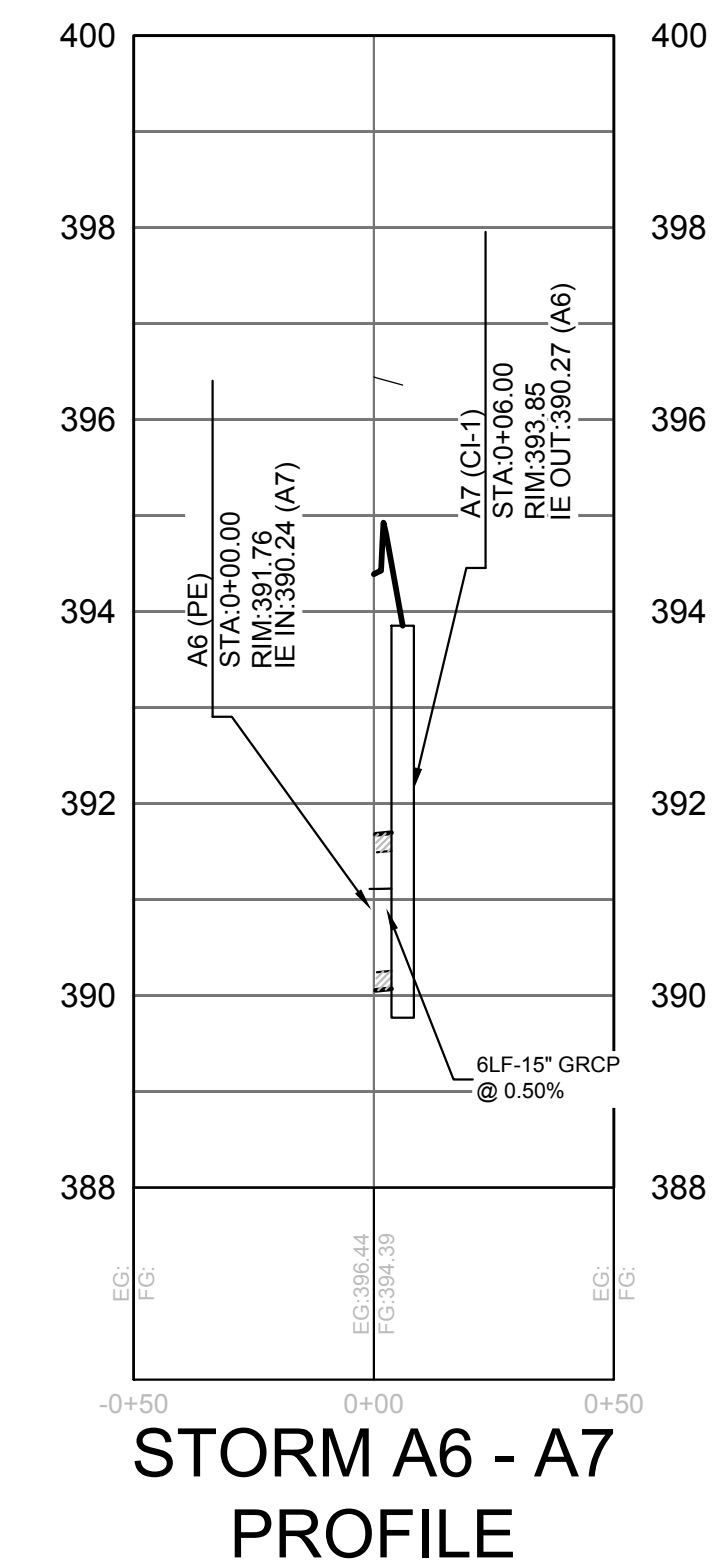
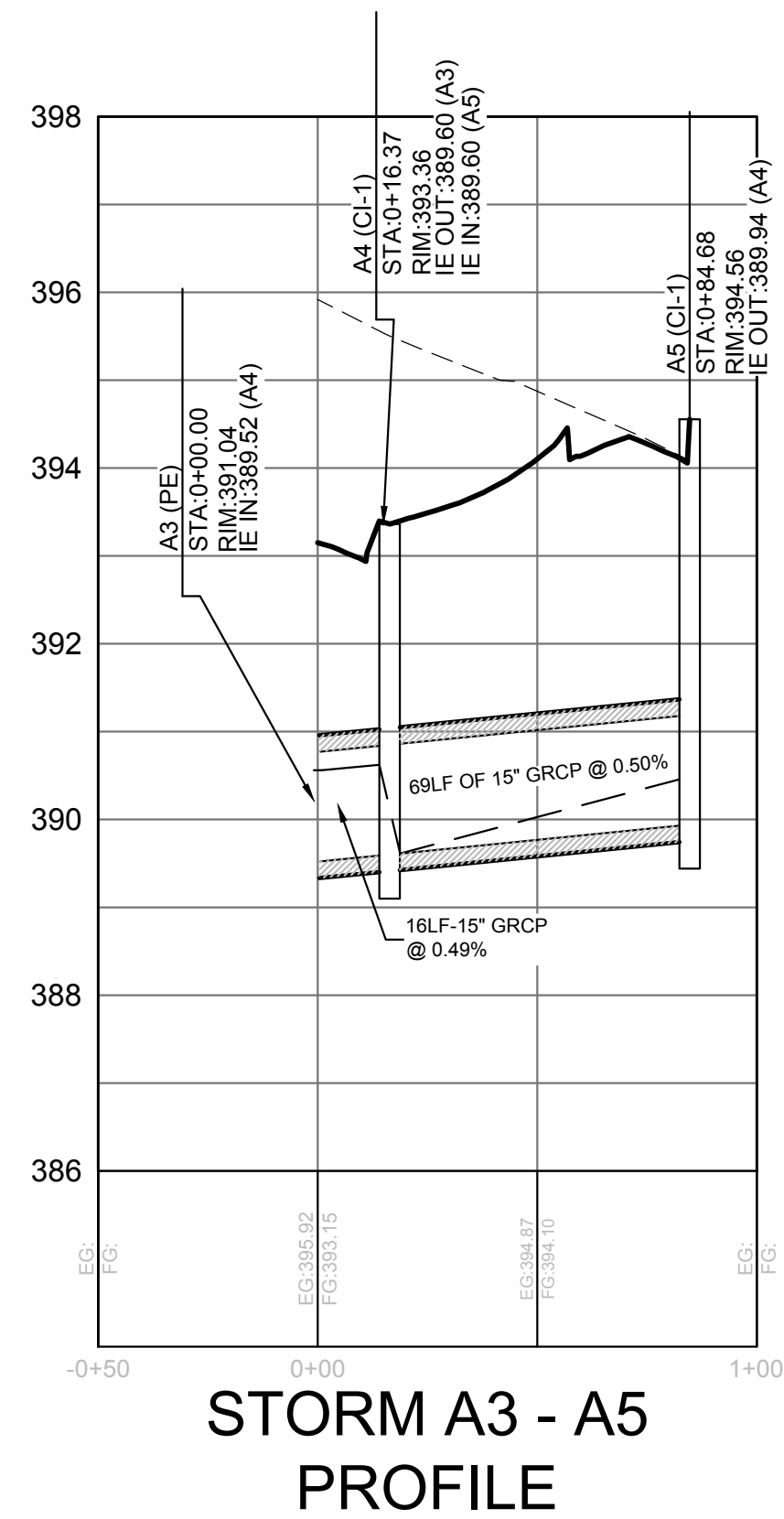
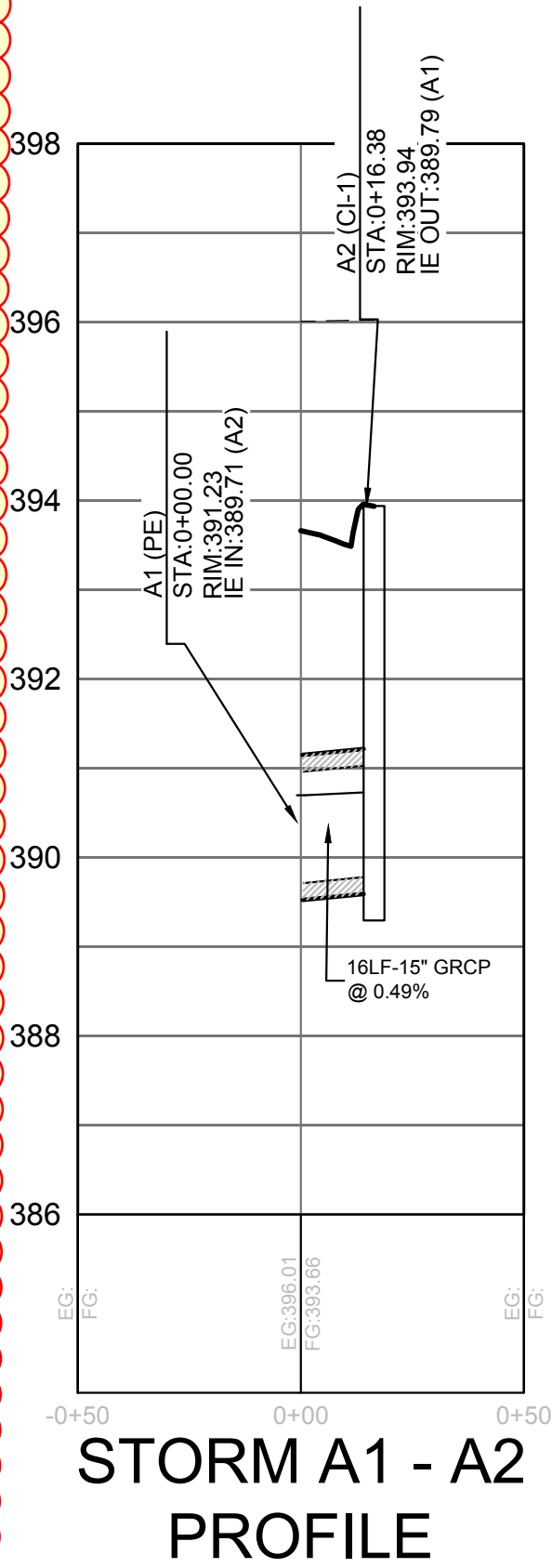
REVISION HISTORY

OVERALL GRADING AND DRAINAGE PLAN

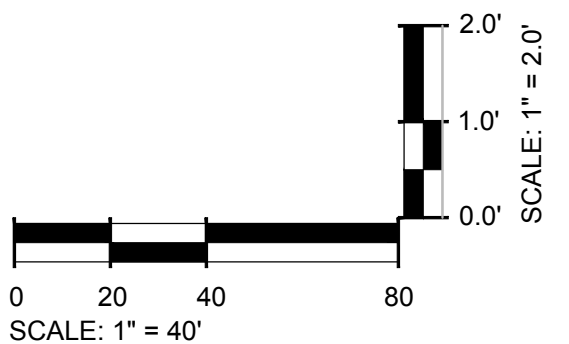
REVISION HISTORY	

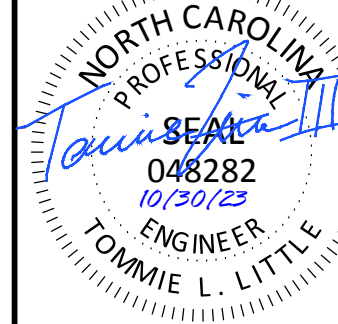
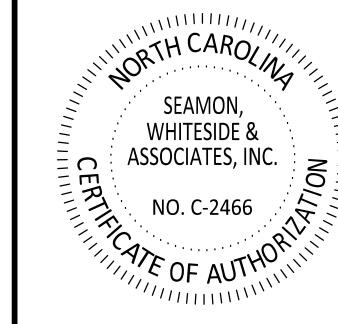


16. Label existing grade and proposed grade for clarity. It appears the proposed grade does not tie to existing grade or there are 3 surfaces. Unsure of depth at A9



Know what's below.
Call before you dig.





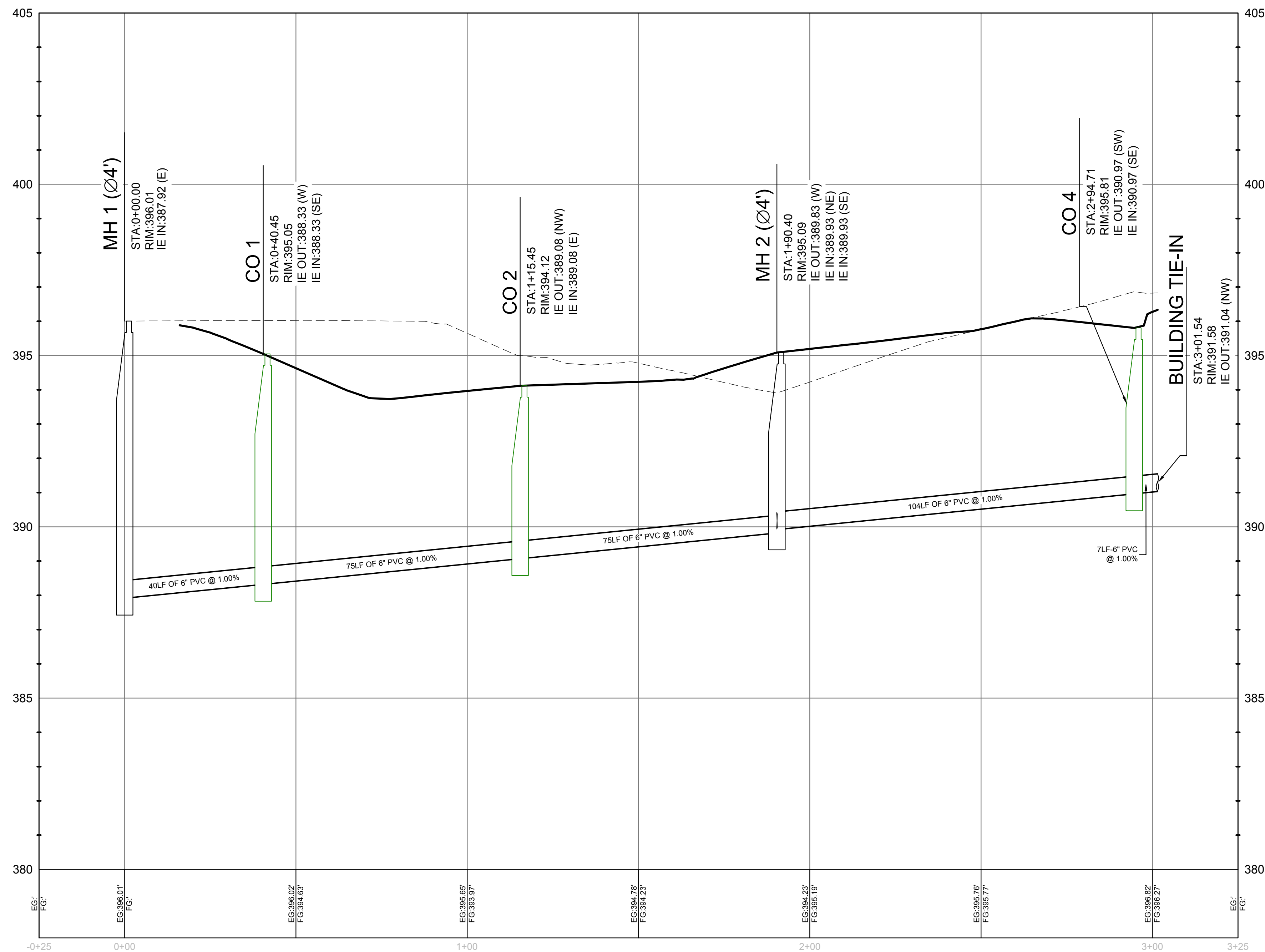
TIDAL WAVE AUTO SPA
ROLESVILLE, NC

SW+ PROJECT: 10772
DATE: 10/30/23
DRAWN BY: CPE
CHECKED BY: DWJ

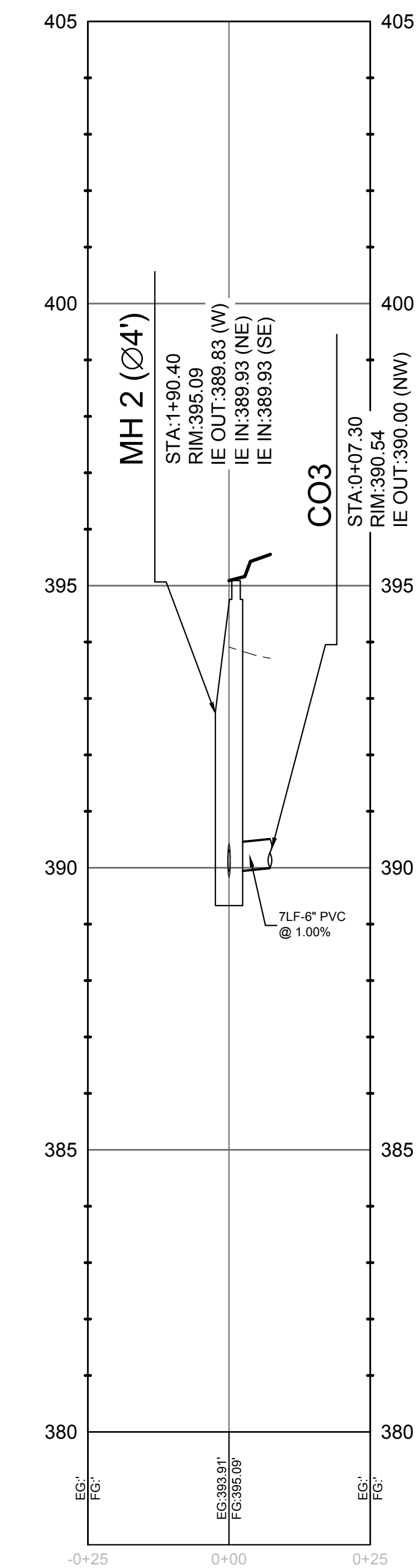
REVISION HISTORY

NO.	DESCRIPTION

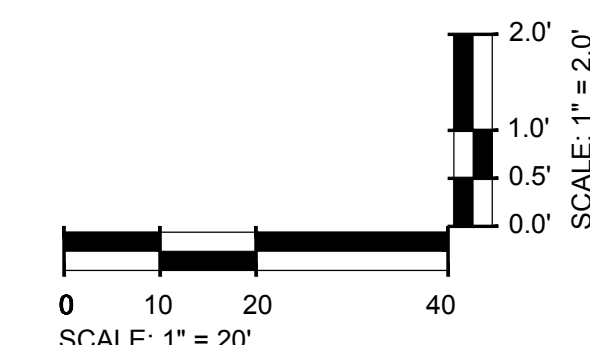
UTILITY PROFILES



MH 1 - BUILDING TIE-IN PROFILE



MH 2 - CO3 PROFILE



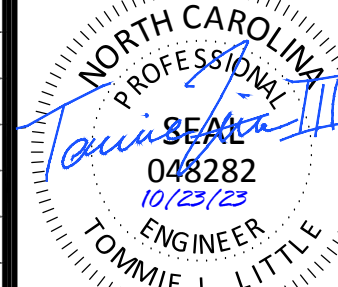
EXISTING UTILITY NOTE:
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO 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.



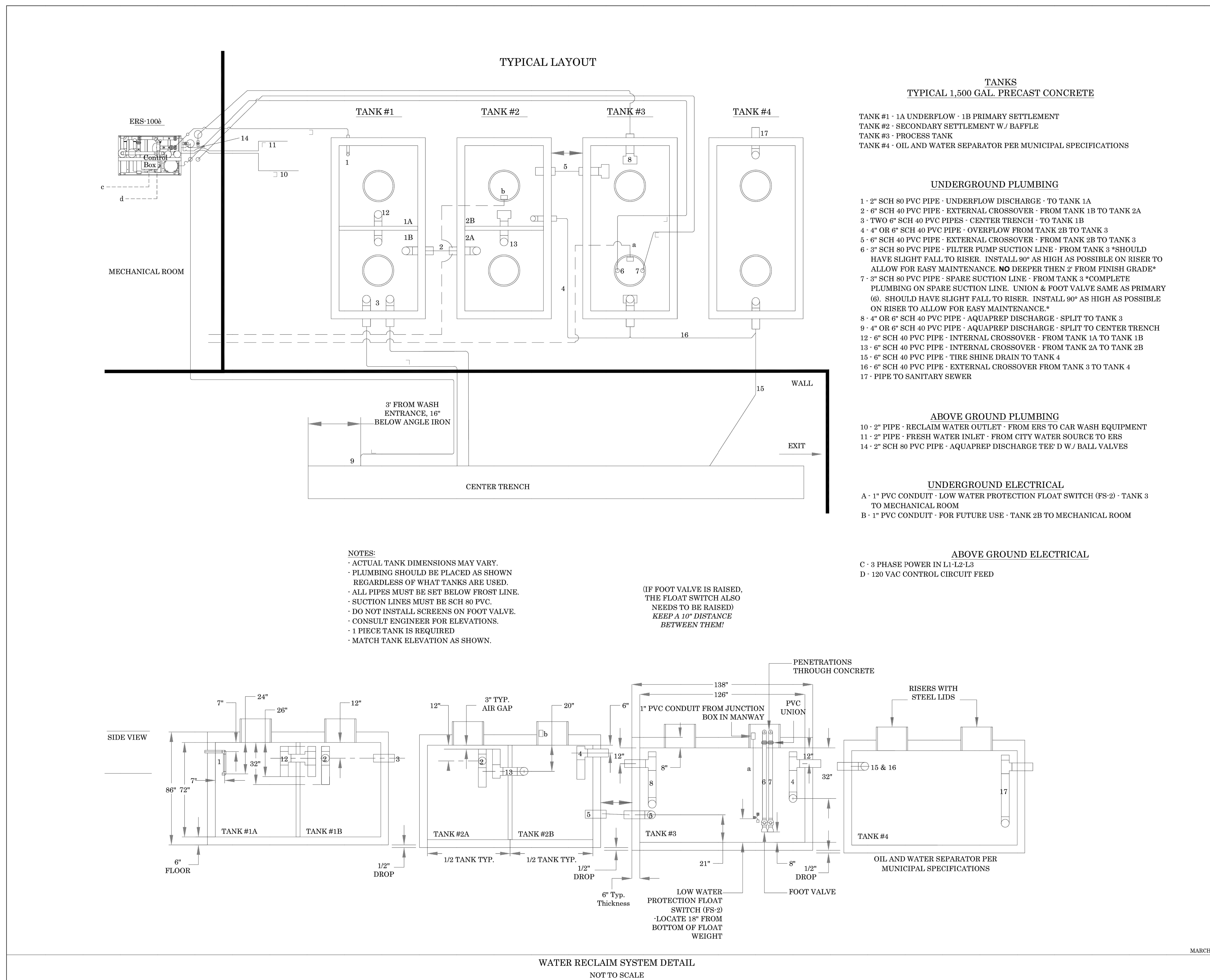
Know what's below.
Call before you dig.



MOUNT PLEASANT, SC
843.884.1667
GREENVILLE, SC
864.298.0534
SUMMERVILLE, SC
843.972.0710
SPARTANBURG, SC
864.272.1272
CHARLOTTE, NC
980.312.5450
WWW.SEAMONWHITESIDE.COM



DATE OF PLANS		
03/31/2023		
REVISIONS		
NO.	DATE	DESCRIPTION
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-



TECHNICAL CRITERIA
SHJ CONSTRUCTION GROUP
WATER RECLAIM SYSTEM DETAIL

TIDAL WAVE AUTO SPA
ROLESVILLE, NC

SW+ PROJECT: 10772
DATE: 10/26/23
DRAWN BY: CPE
CHECKED BY: DWJ

REVISION HISTORY

NO.	DATE	DESCRIPTION

CONSTRUCTION DETAILS

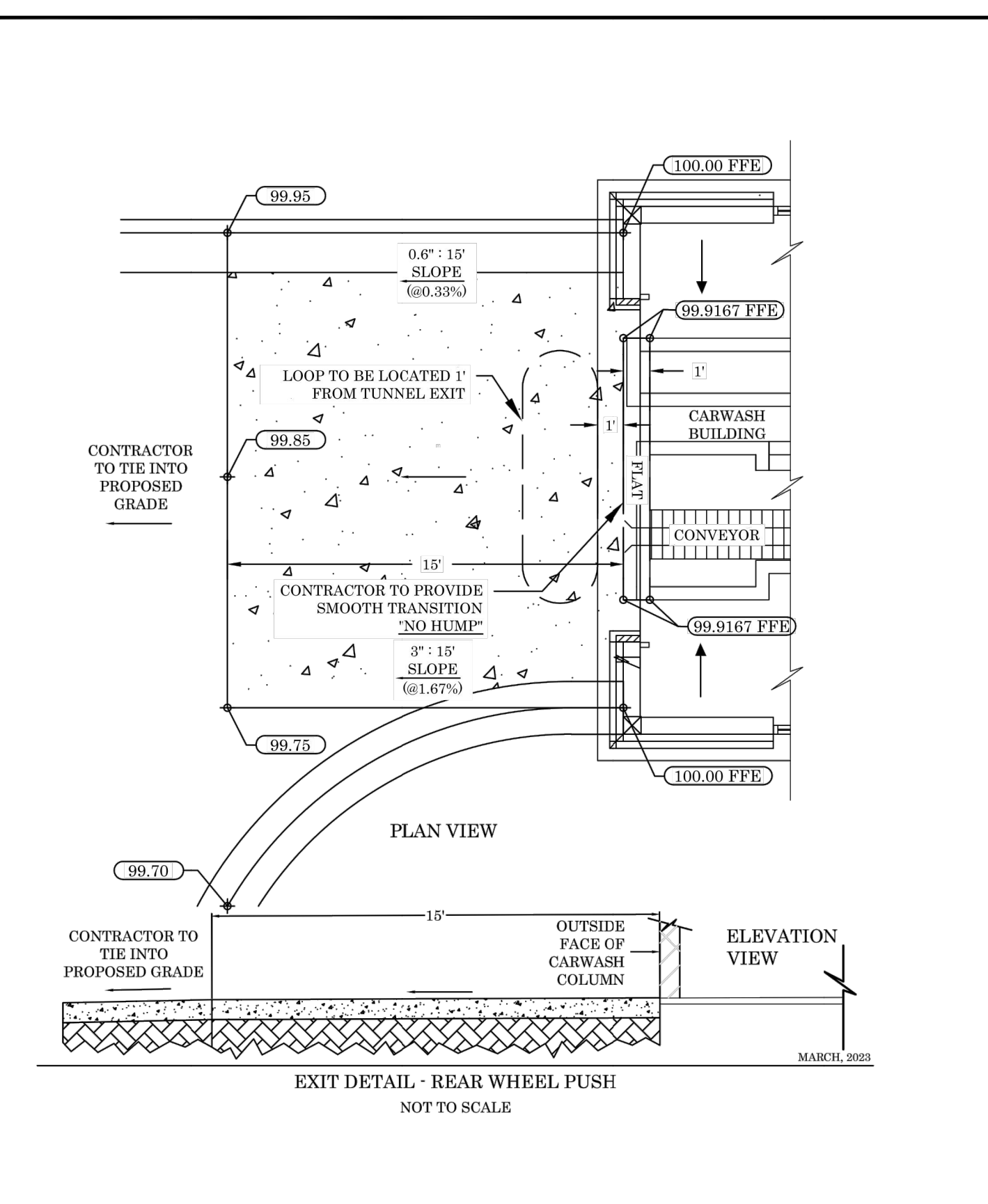
NOT TO SCALE
SHEET
1 OF 1

501 WINDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29546 | JUDSON MILLS BUILDING 6000 TOY EASLEY BROOK RD, SUITE 600 | GREENVILLE, SC 29611 | 230 PETERSON DR. | CHARLOTTE, NC 28217 | 710 N. CEDAR STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MORGAN AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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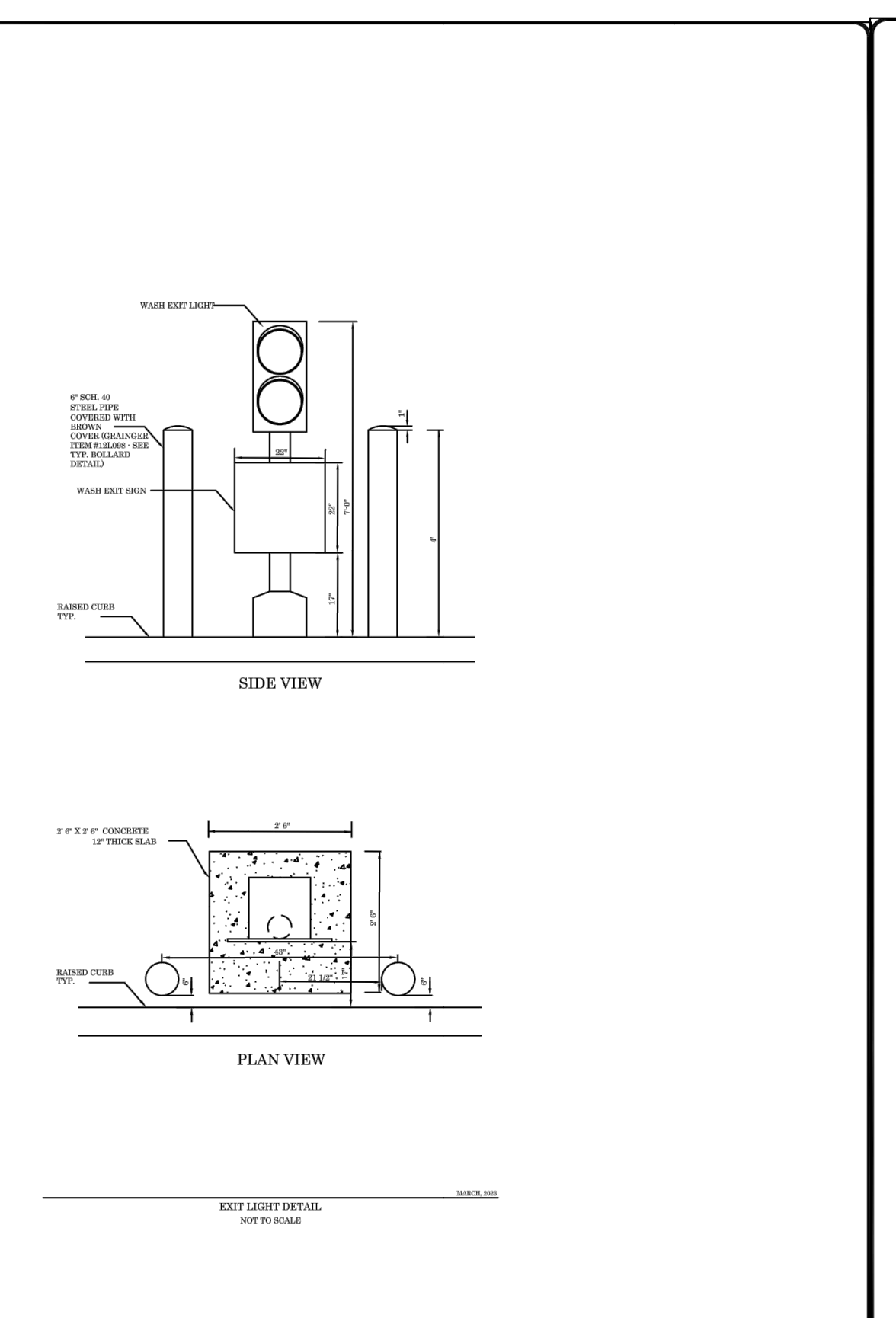
REVISION HISTORY

NO.	DESCRIPTION

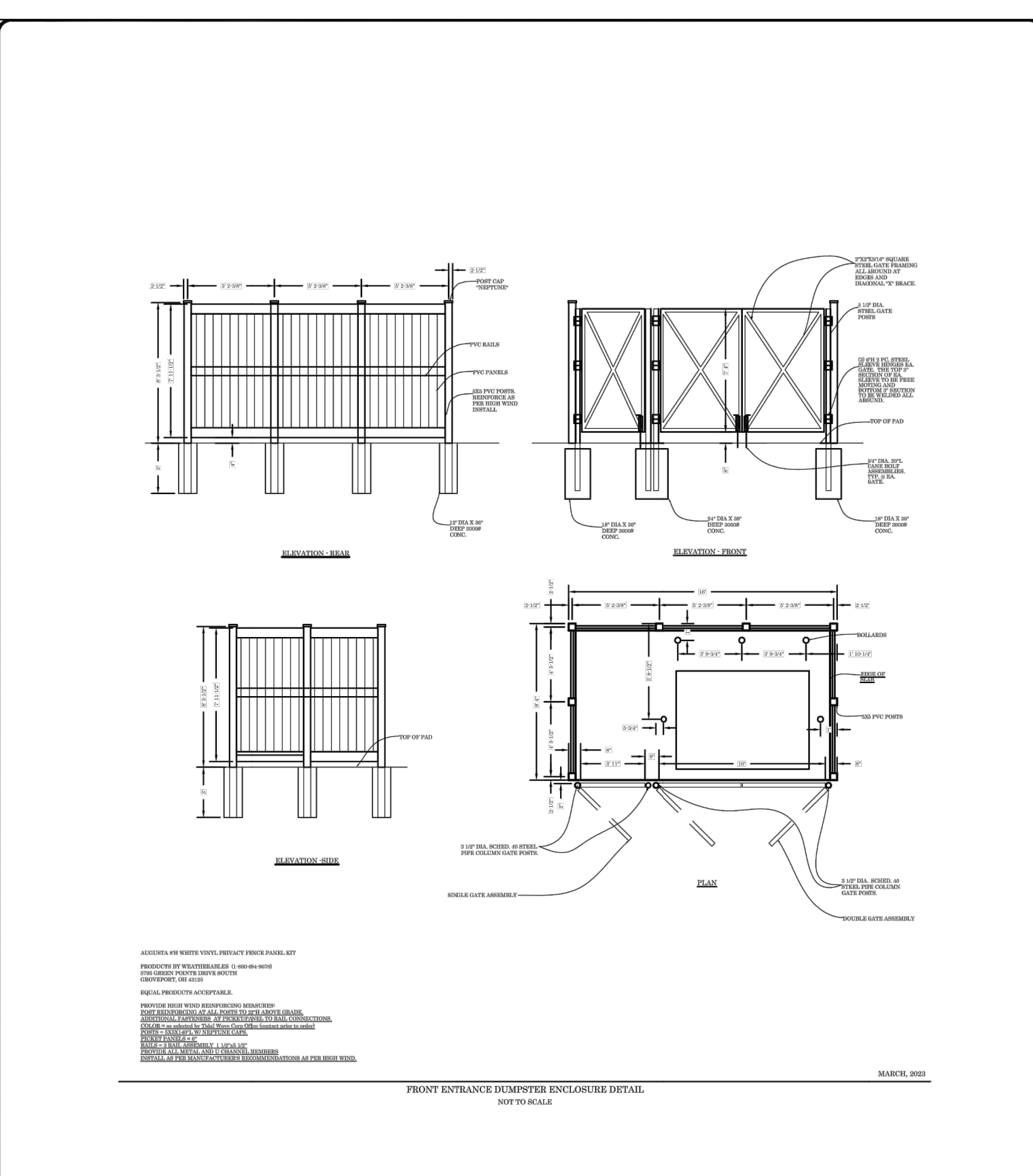
CONSTRUCTION DETAILS



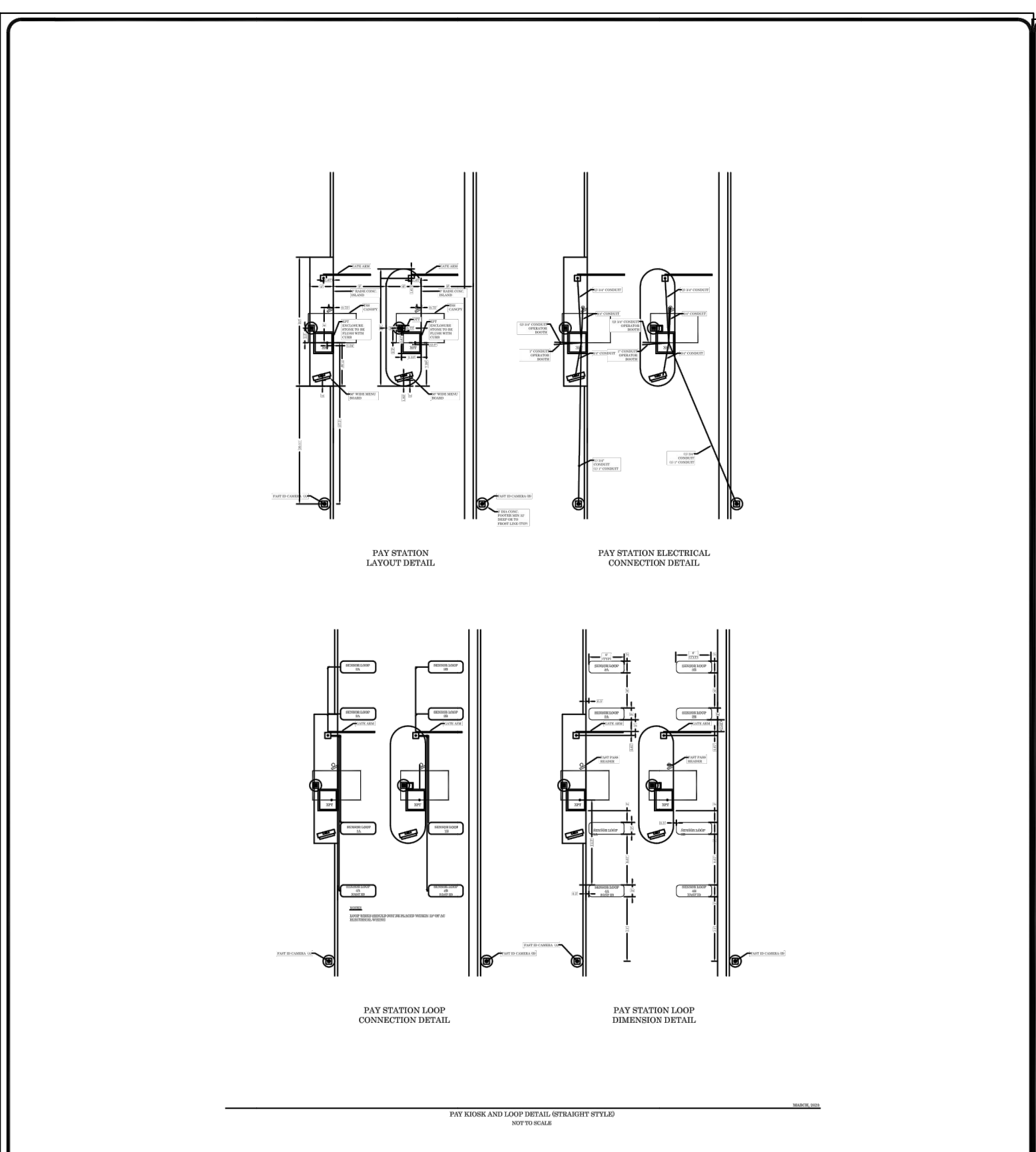
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DATE OF PLANS	03/15/2023
NOT TO SCALE	NOT TO SCALE
REAR-WHEEL PUSH - EXIT	
SHJ CONSTRUCTION GROUP	



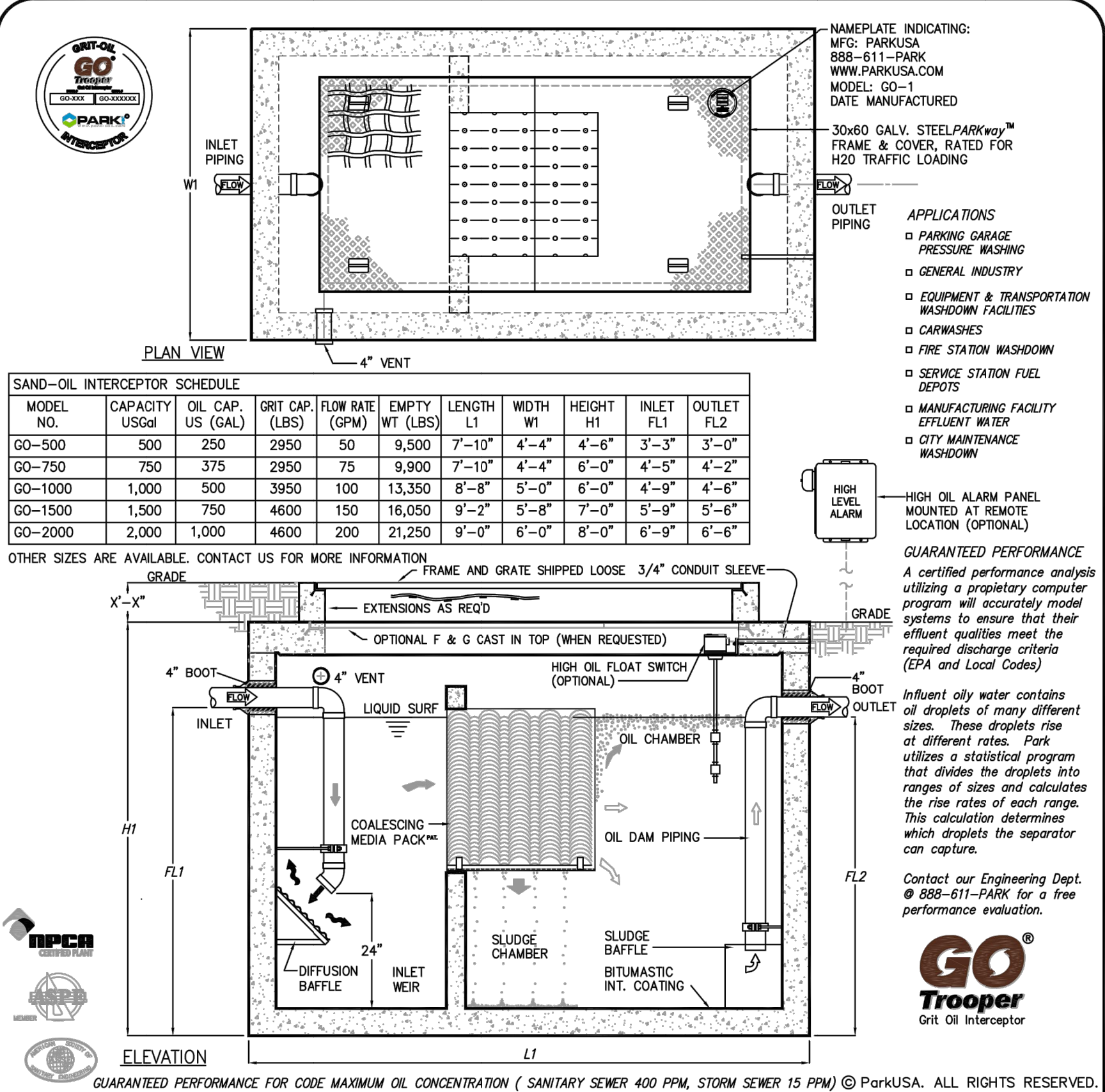
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DATE OF PLANS	03/15/2023
NOT TO SCALE	NOT TO SCALE
EXIT LIGHT DETAIL	
SHJ CONSTRUCTION GROUP	



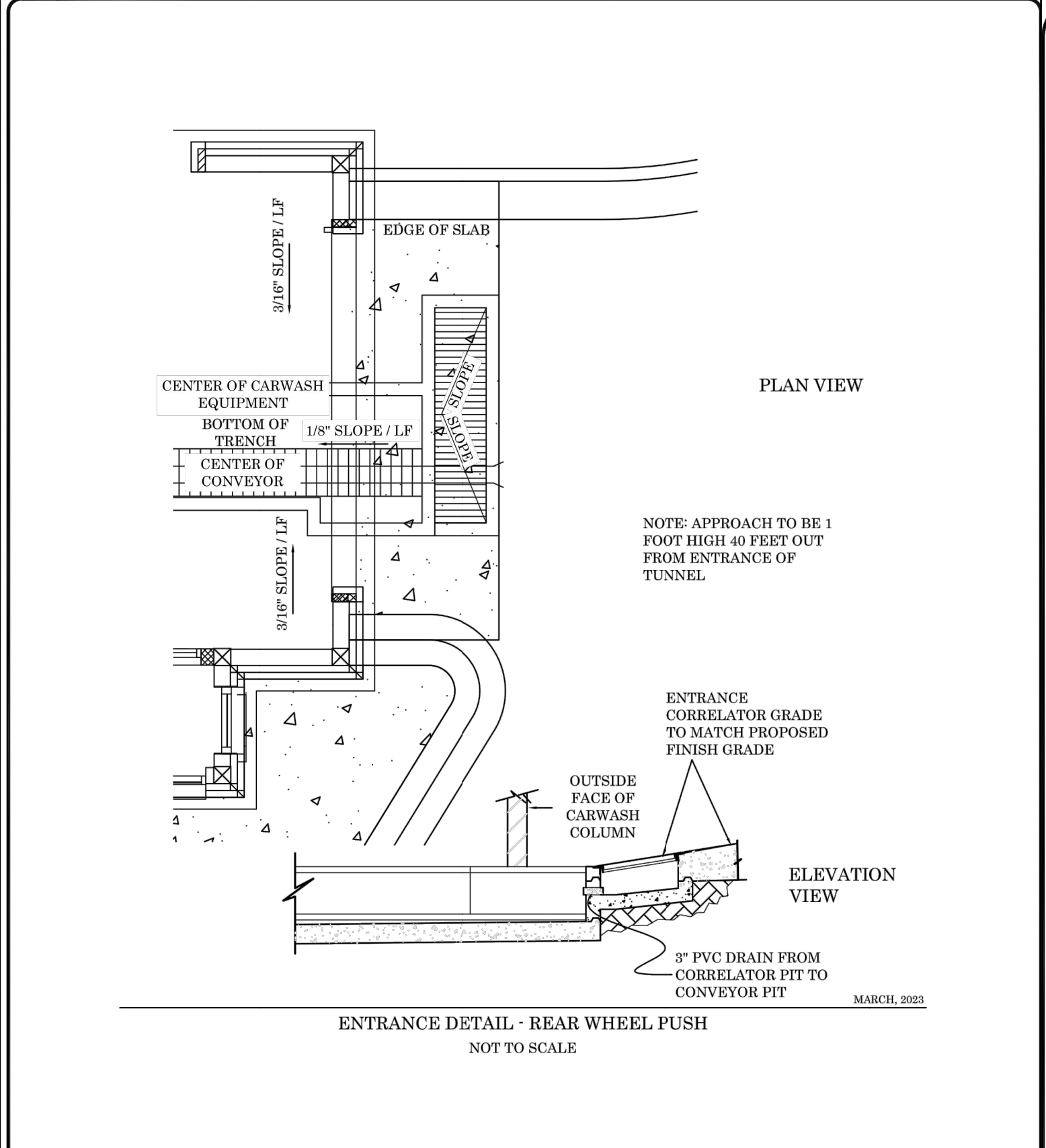
TECHNICAL CRITERIA	
DATE OF PLANS	03/15/2023
NOT TO SCALE	NOT TO SCALE
FRONT ENTRANCE DUMPSTER DETAIL	
SHJ CONSTRUCTION GROUP	



TECHNICAL CRITERIA	
DATE OF PLANS	03/31/2023
NOT TO SCALE	NOT TO SCALE
PAY KIOSK (STRAIGHT) DETAIL	
SHJ CONSTRUCTION GROUP	



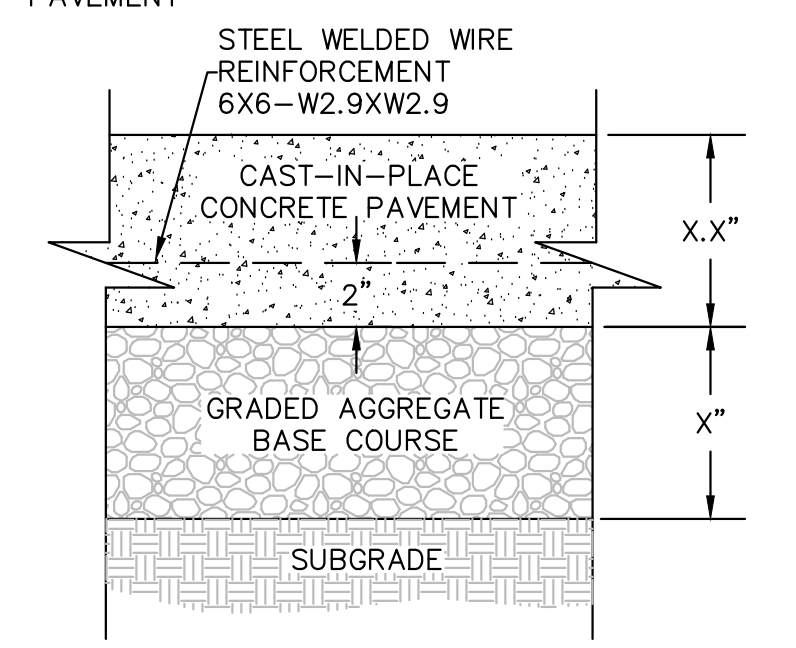
TECHNICAL CRITERIA	
DATE OF PLANS	03/15/2023
NOT TO SCALE	NOT TO SCALE
REAL-WHEEL PUSH - ENTRANCE	
SHJ CONSTRUCTION GROUP	



TECHNICAL CRITERIA	
DATE OF PLANS	03/15/2023
NOT TO SCALE	NOT TO SCALE
REAL-WHEEL PUSH - ENTRANCE	
SHJ CONSTRUCTION GROUP	

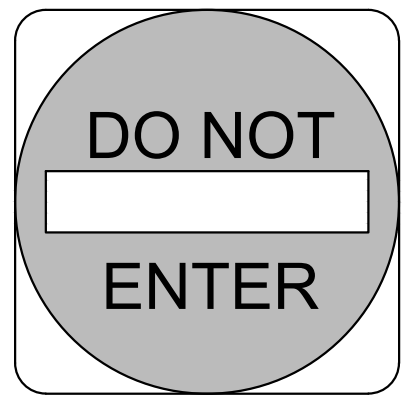
50 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29546 | JUDSON MILLS BUILDING 6000 TOE EASLEY DRIVE, SUITE 6000 | GREENVILLE, SC 29611 | 230 PETERSON DRIVE | CHARLOTTE, NC 28217 | 7124 CEDAR STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MCGREGAN AVENUE, SUITE 300 | SPARTANBURG, SC 29301

ITEM:	MATERIAL:
SUBGRADE	PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL
BASE COURSE	GRADED AGGREGATE BASE COURSE
CONCRETE PAVEMENT	CAST-IN-PLACE CONCRETE



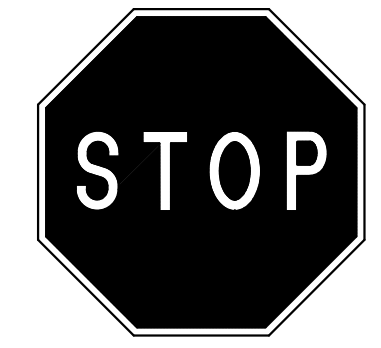
NOTES:
 1. WHERE SHOWN, SEE PLAN FOR EXPANSION AND CONTROL JOINT LOCATIONS. OTHERWISE, SEE SPECS FOR REQUIRED LOCATION AND SPACING.
 2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED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

1 CONCRETE PAVEMENT - HEAVY DUTY
 SCALE: NOT TO SCALE



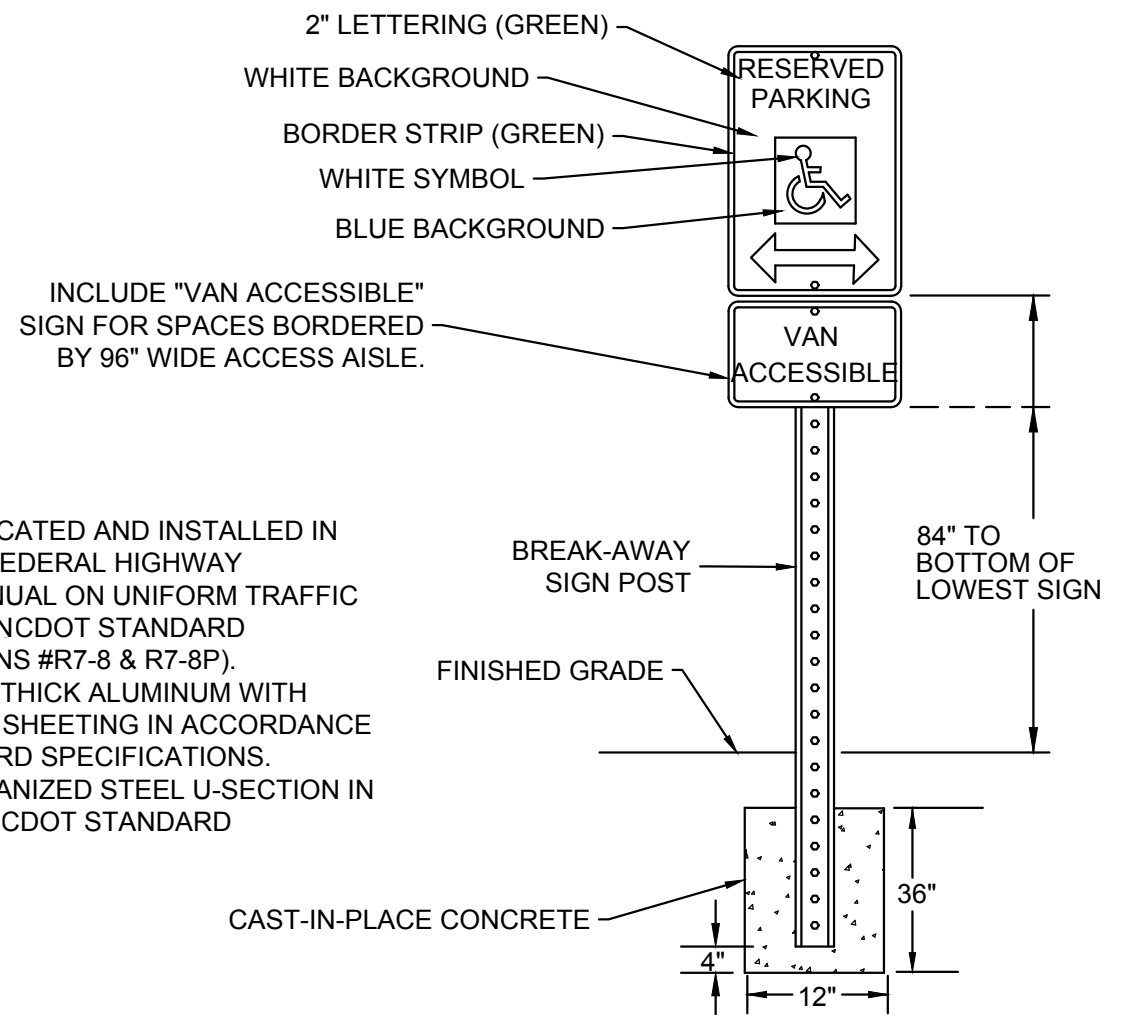
DO NOT ENTER SIGN AND INSTALLATION TO CONFORM WITH M.U.T.C.D. SPECIFICATIONS.
 NUMBER: R5-1-30
 SIZE: 30" X 30"
 CLASS: STANDARD
 LEGEND AND BACKGROUND: WHITE-REFLECTORIZED
 CIRCLE: RED-REFLECTORIZED
 SIGN POST: GALVANIZED U-CHANNEL PER NCDOT SPECIFICATIONS

2 SIGN - DO NOT ENTER
 SCALE: NOT TO SCALE



STOP SIGN AND INSTALLATION TO CONFORM WITH M.U.T.C.D. SPECIFICATIONS.
 NUMBER: R1-1-30
 SIZE: 30" X 30"
 CLASS: STANDARD
 BACKGROUND: RED-REFLECTORIZED
 LEGEND AND BORDER: WHITE-REFLECTORIZED
 SIGN POST: GALVANIZED U-CHANNEL PER NCDOT SPECIFICATIONS

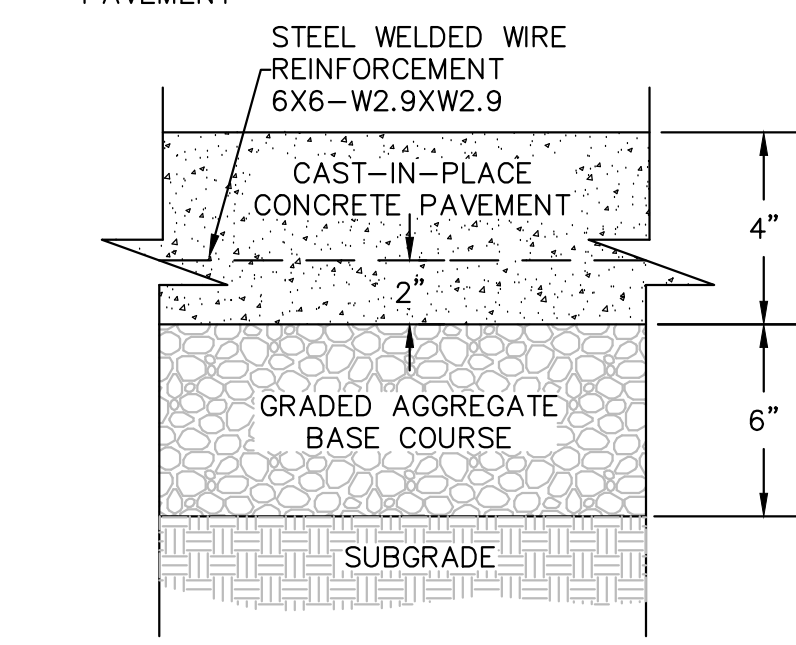
3 SIGN - STOP
 SCALE: NOT TO SCALE



NOTES:
 1. SIGN SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & NCDOT STANDARD SPECIFICATIONS (SIGNS #R7-8 & R7-8P).
 2. SIGN SHALL BE 0.080" THICK ALUMINUM WITH APPLIED REFLECTIVE SHEETING IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS.
 3. POST SHALL BE GALVANIZED STEEL U-SECTION IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS.

4 ADA PARKING SIGN
 SCALE: NOT TO SCALE

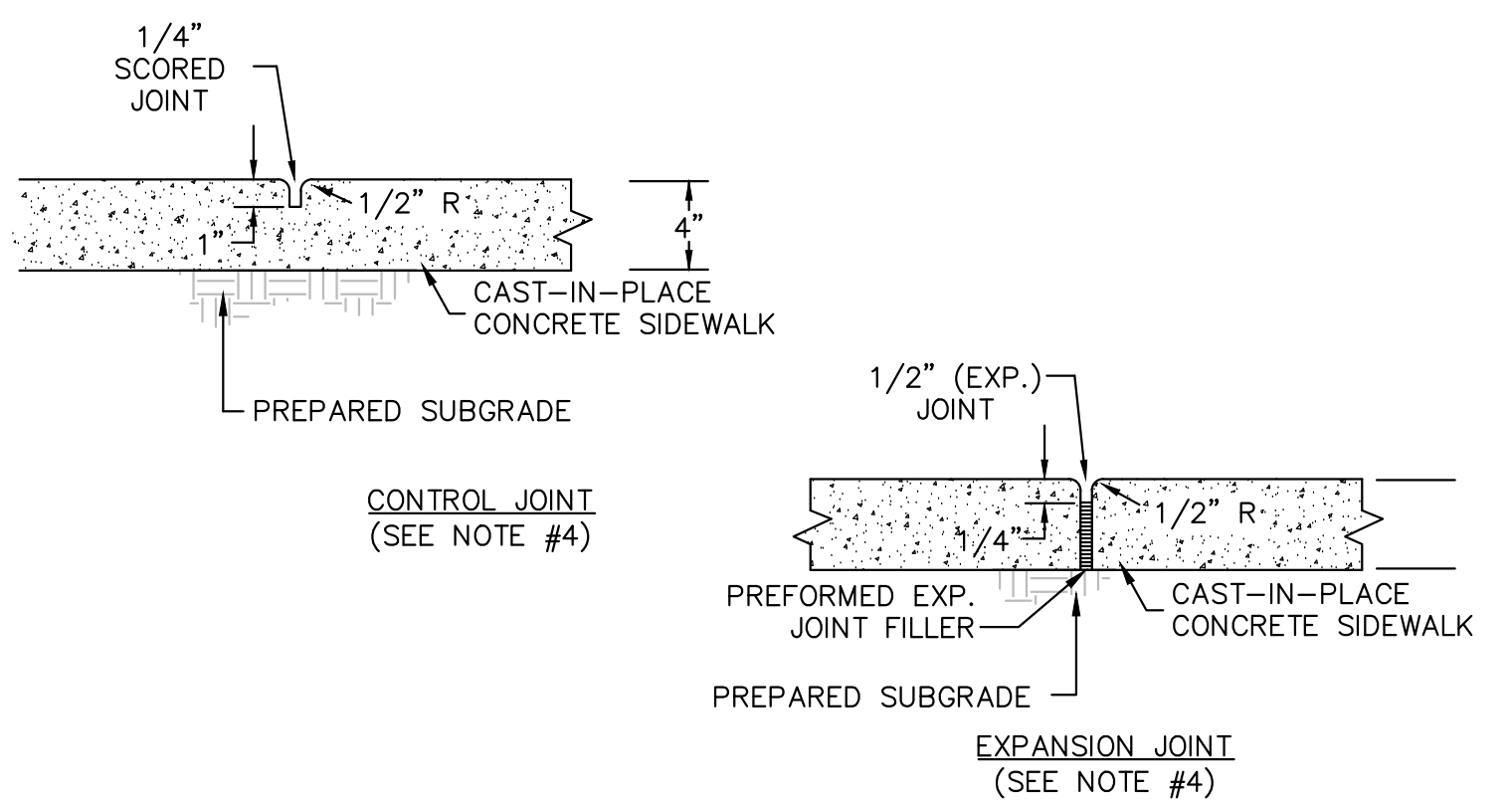
ITEM:	MATERIAL:
SUBGRADE	PREPARED IN-SITU SUBSOIL OR STRUCTURAL FILL
BASE COURSE	GRADED AGGREGATE BASE COURSE
CONCRETE PAVEMENT	CAST-IN-PLACE CONCRETE



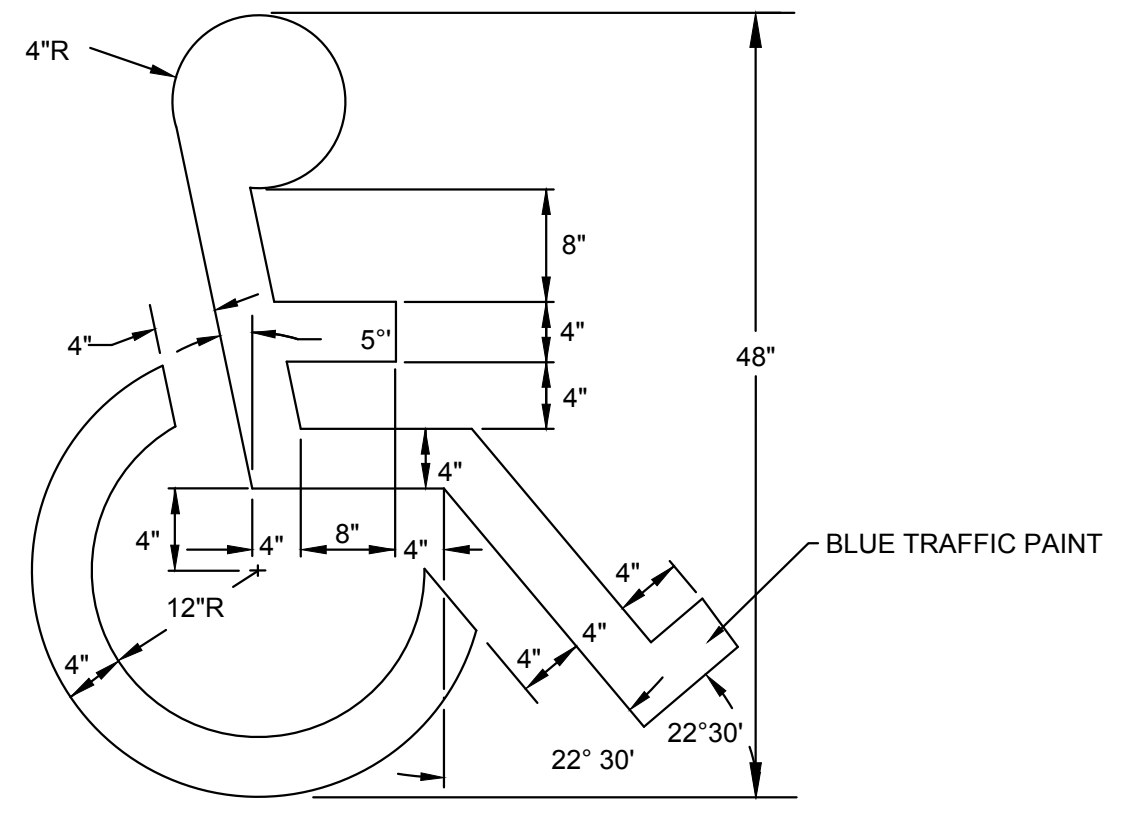
NOTES:
 1. WHERE SHOWN, SEE PLAN FOR EXPANSION AND CONTROL JOINT LOCATIONS. OTHERWISE, SEE SPECS FOR REQUIRED LOCATION AND SPACING.
 2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED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

5 CONCRETE PAVEMENT - STANDARD DUTY
 SCALE: NOT TO SCALE

NOTES:
 1. SIDEWALK CROSS SLOPE NOT TO EXCEED 2% AND LONGITUDINAL SLOPE NOT TO EXCEED 5%.
 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 NOT TO EXCEED 5'. 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.

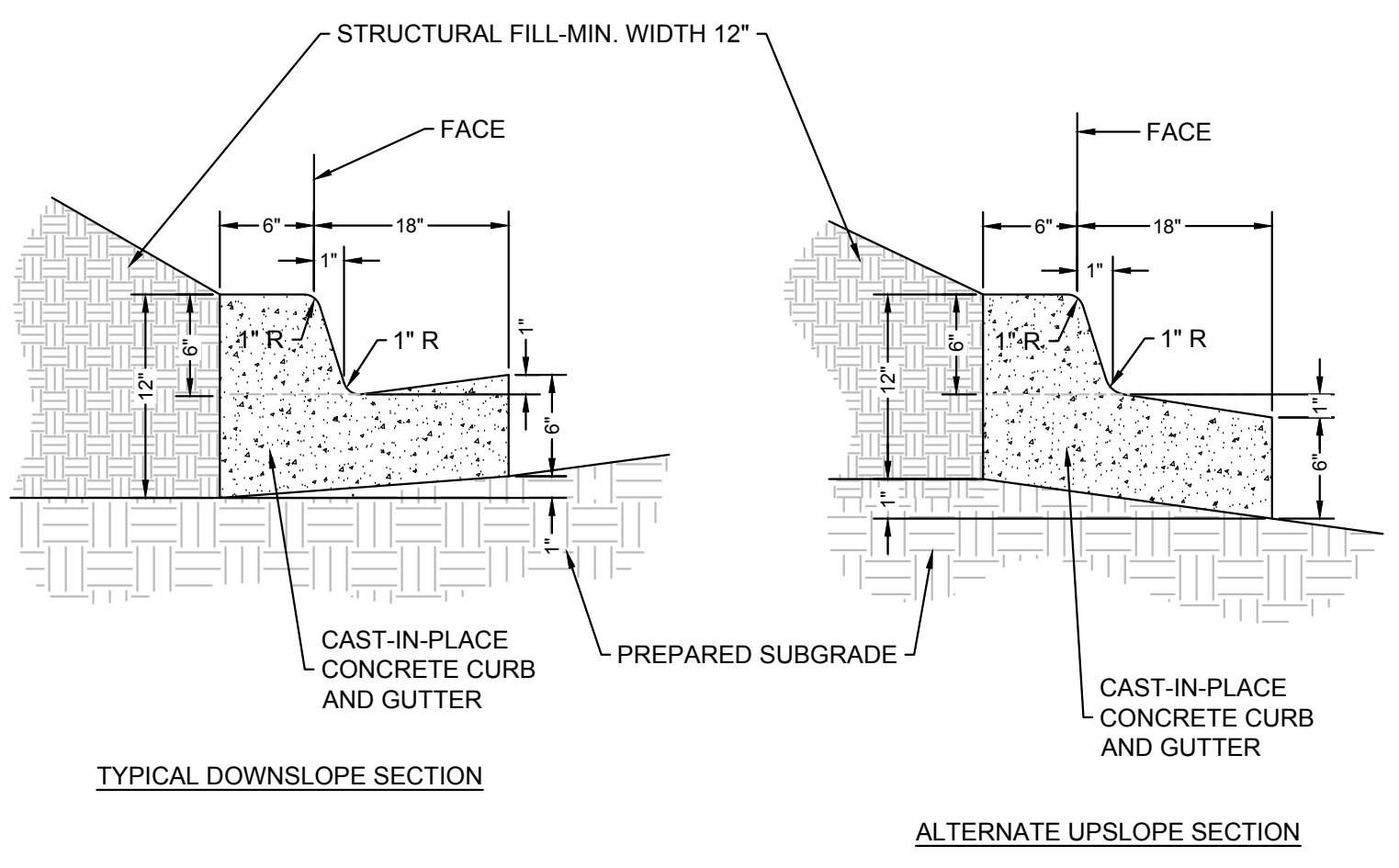


6 SIDEWALK-SECTION

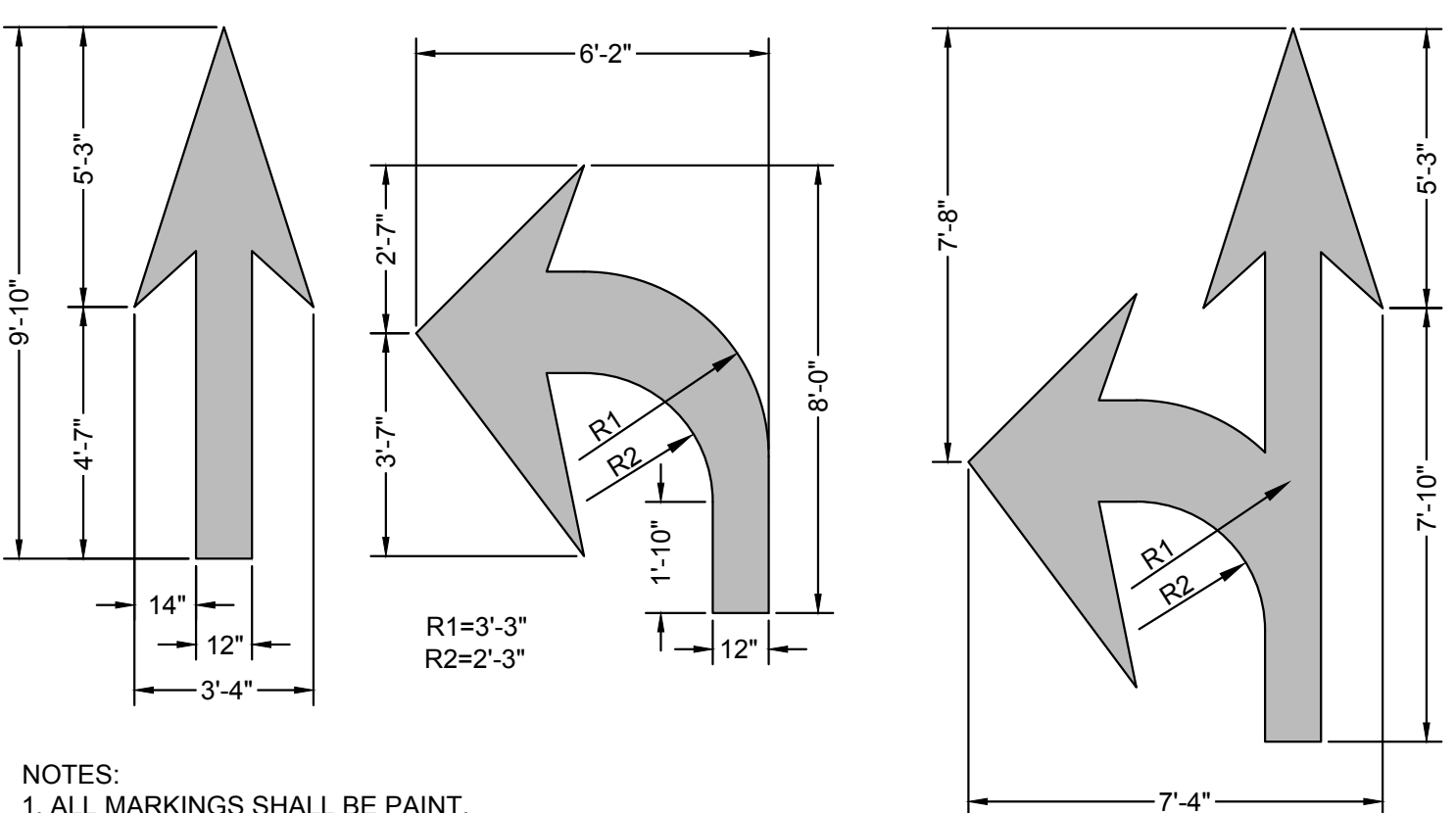


7 PAINTED ADA PARKING SYMBOL

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.



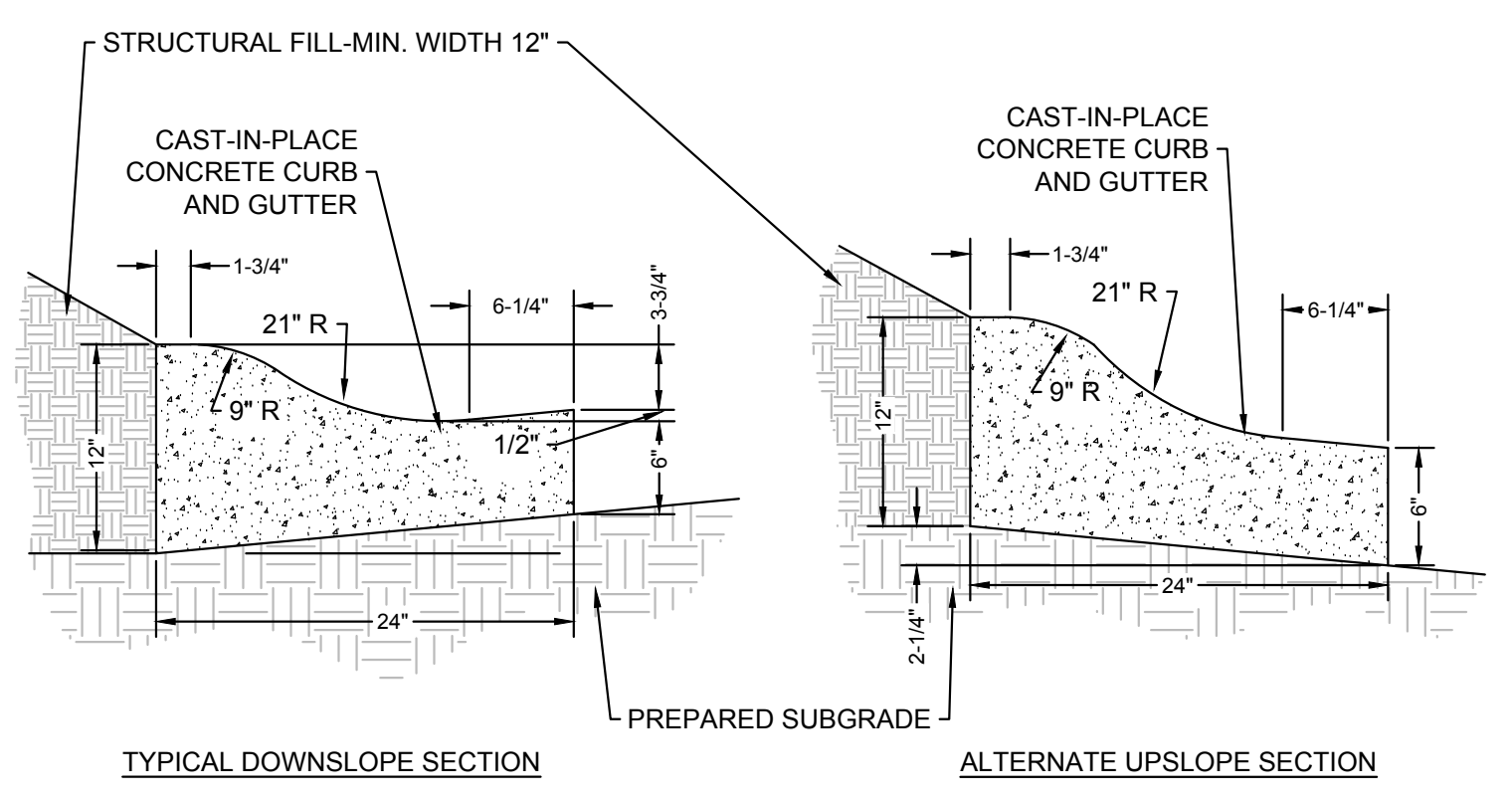
8 24" STRAIGHT CURB AND GUTTER
 SCALE: NOT TO SCALE



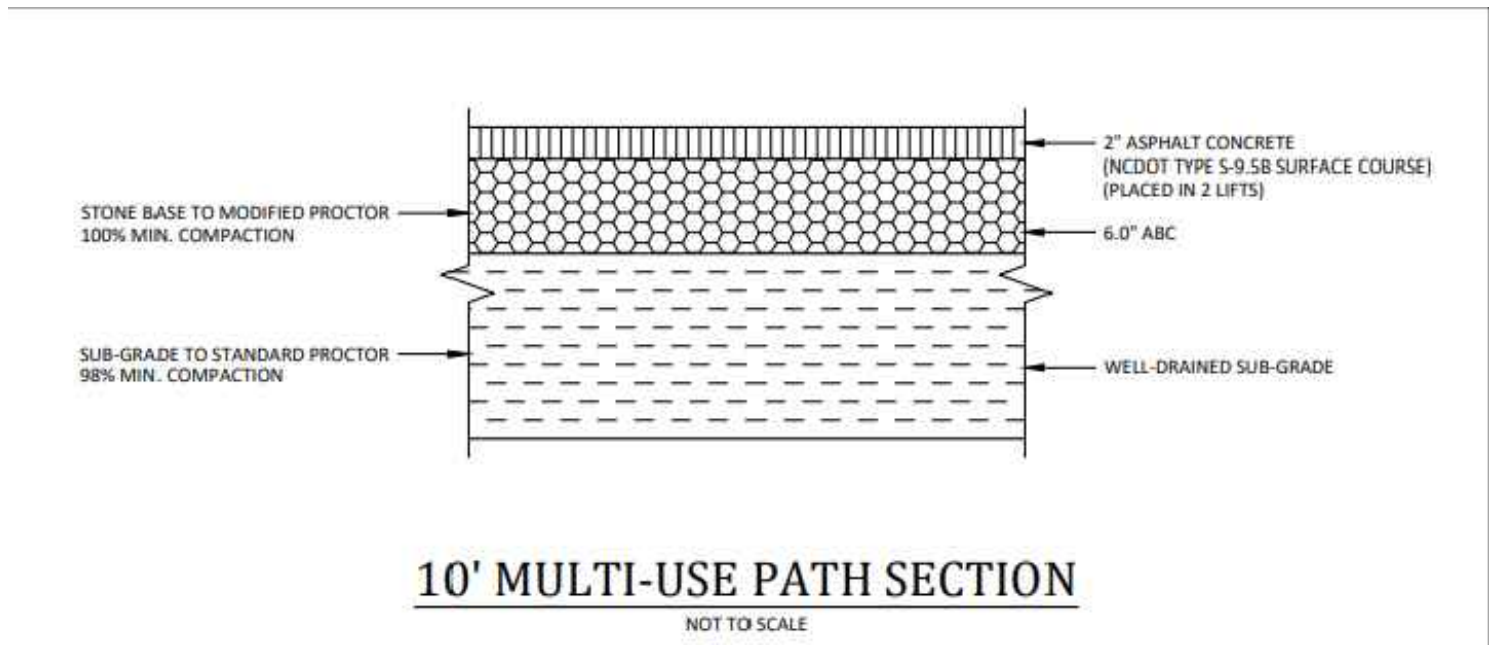
NOTES:
 1. ALL MARKINGS SHALL BE PAINT.
 2. ALL MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH N.C.D.O.T. STANDARD SPECIFICATIONS AND NORTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

9 PAVEMENT-MARKING
 SCALE: 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.



10 24" ROLL CURB AND GUTTER
 SCALE: NOT TO SCALE



11 10' MULTI-USE PATH SECTION
 SCALE: NOT TO SCALE

SW SEAMONWHITESIDE
 MOUNT PLEASANT, SC 843.884.1667
 GREENVILLE, SC 864.298.0534
 SUMMERVILLE, SC 843.972.0710
 SPARTANBURG, SC 864.272.1272
 CHARLOTTE, NC 980.312.5450
 WWW.SEAMONWHITESIDE.COM



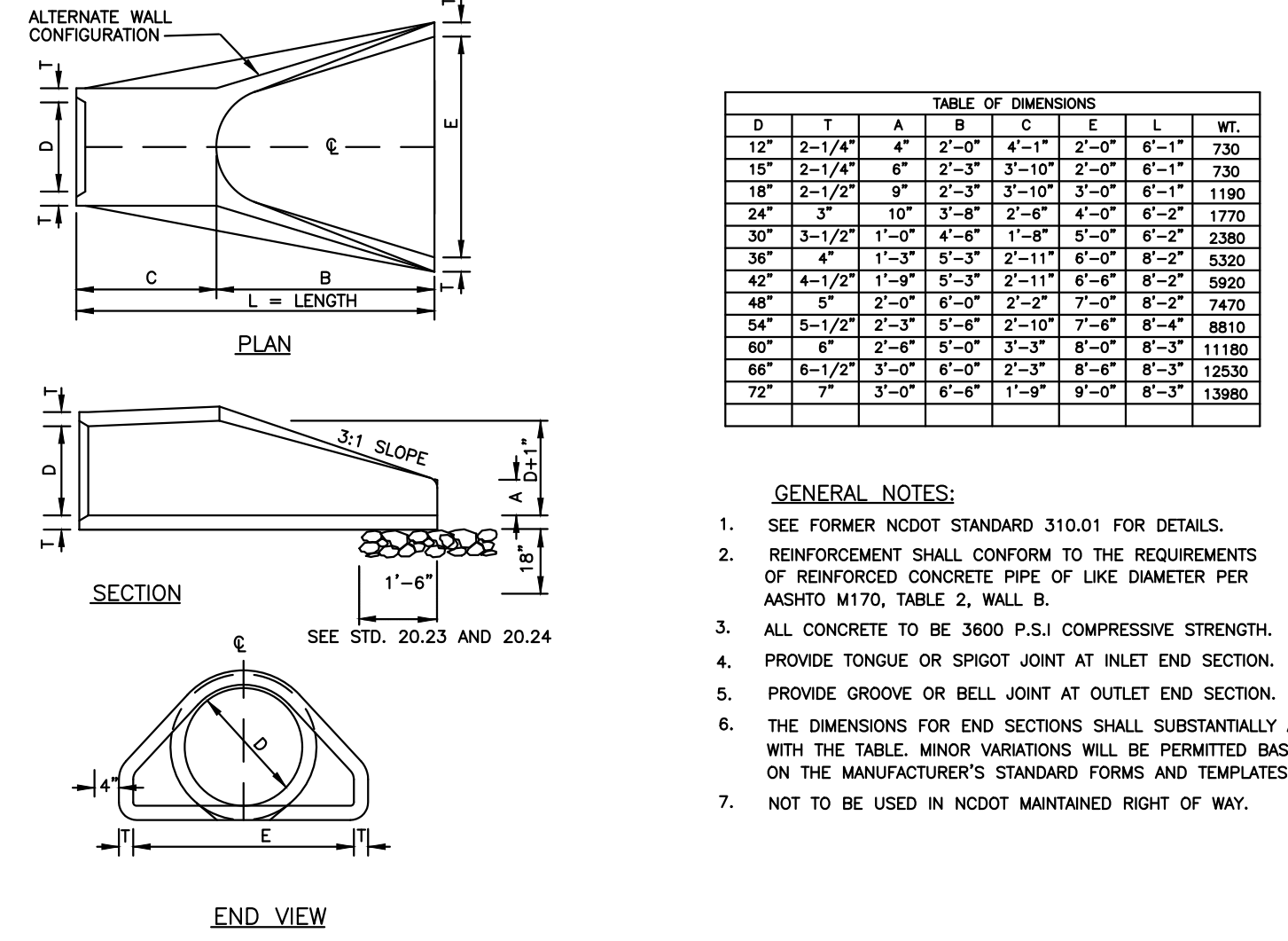
TIDAL WAVE AUTO SPA
 ROLESVILLE, NC

SW+ PROJECT:	10772
DATE:	10/30/23
DRAWN BY:	CPE
CHECKED BY:	DWJ

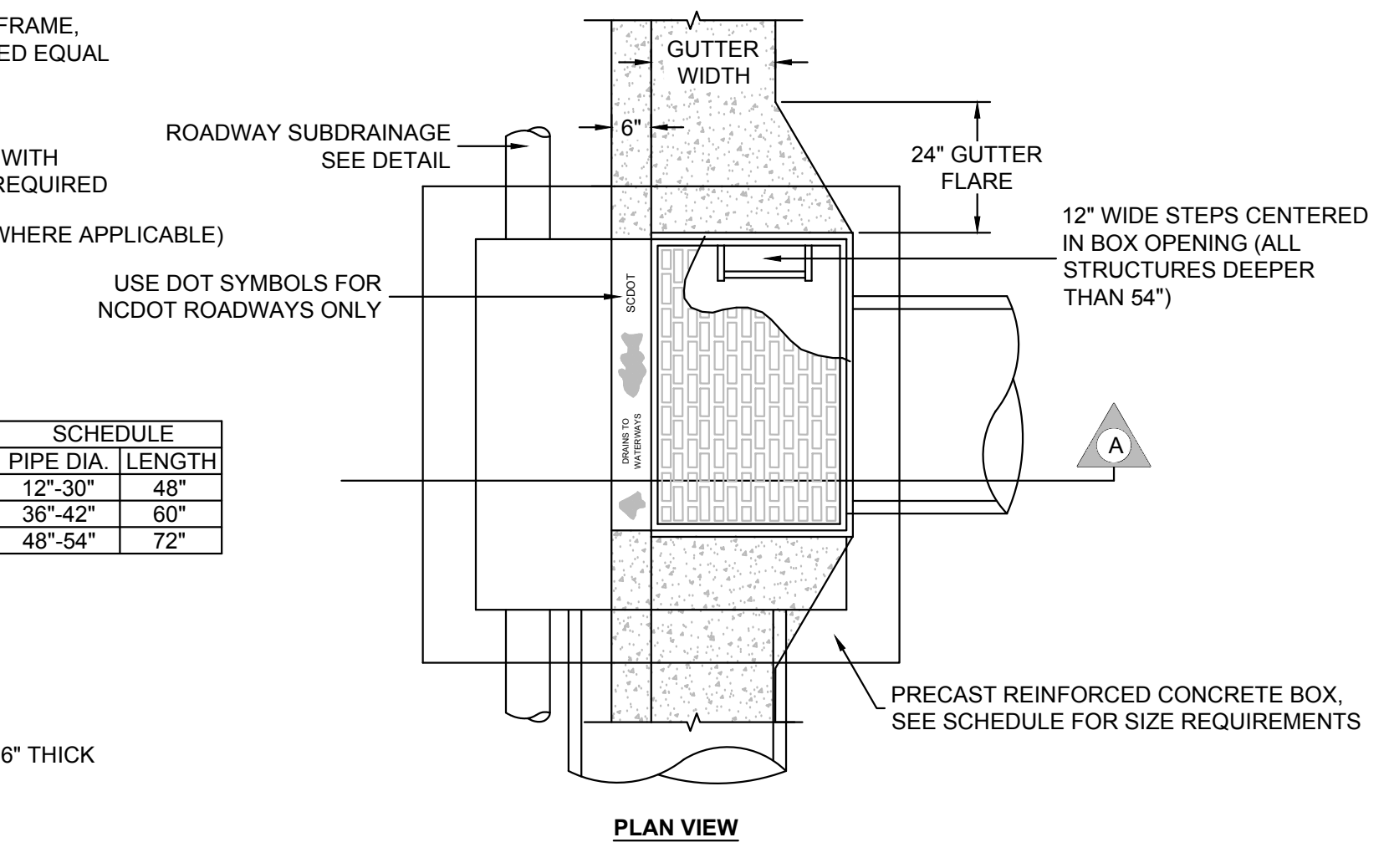
REVISION HISTORY	

CONSTRUCTION DETAILS

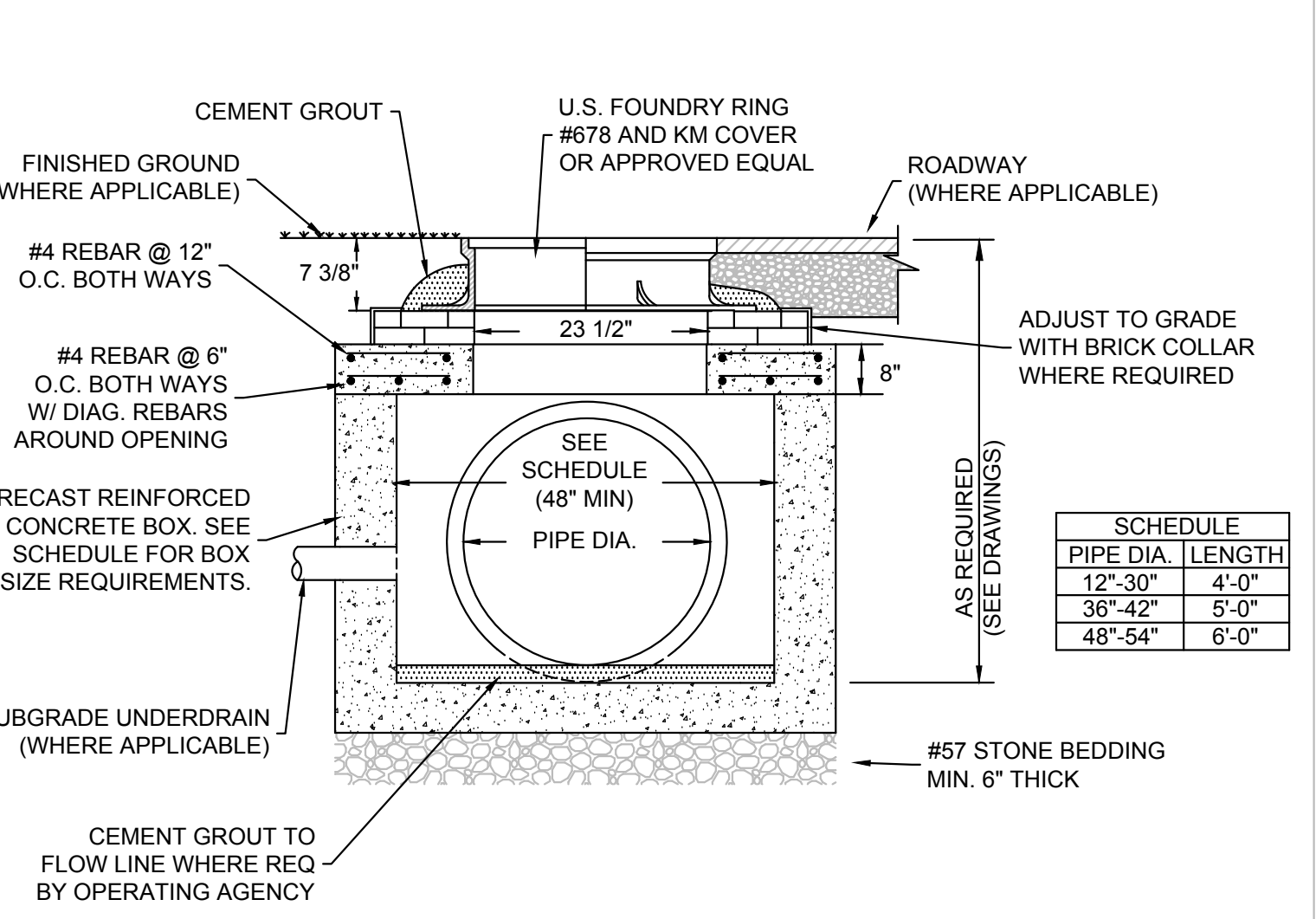
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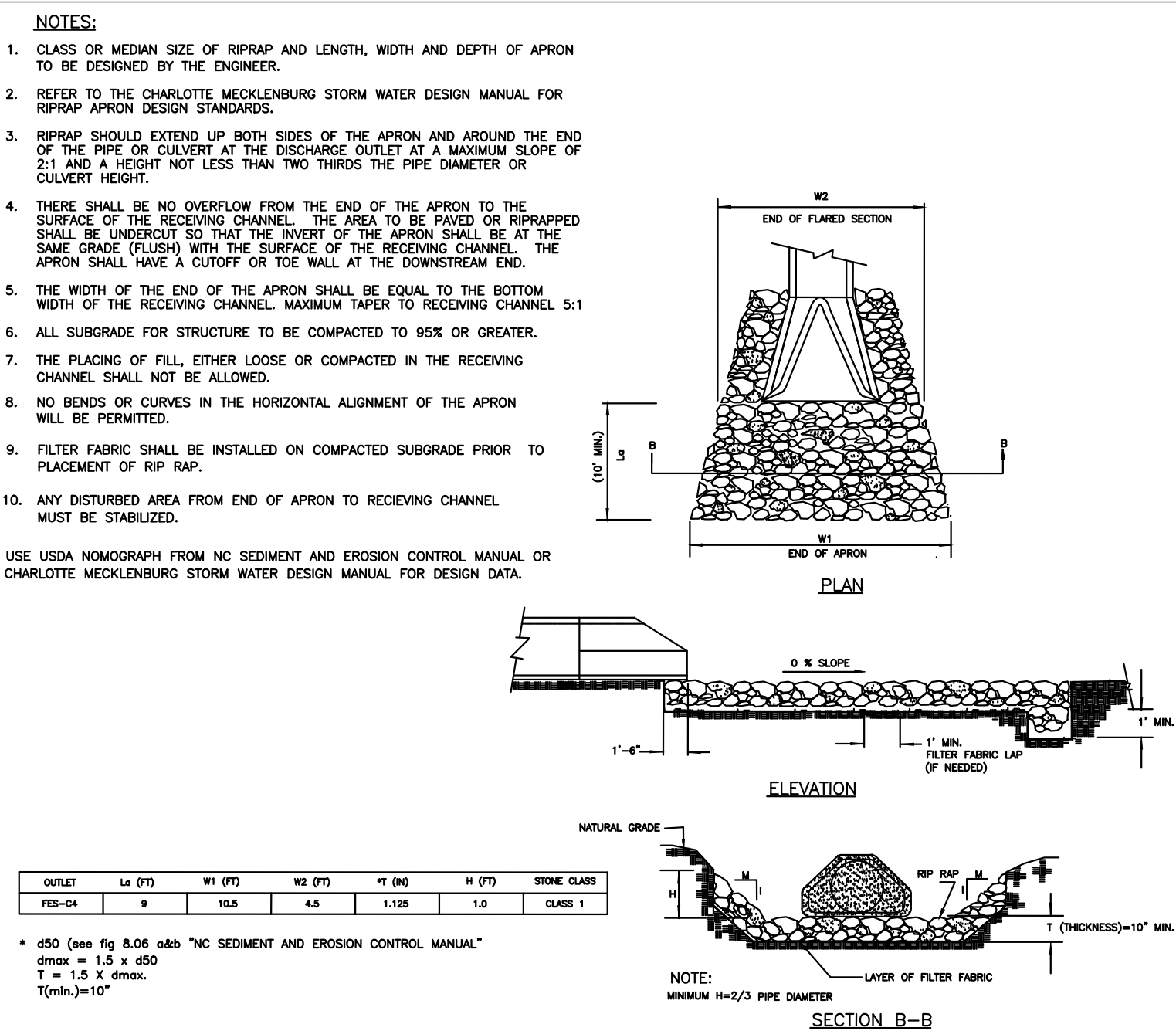
14 Flared End Section
 SCALE: NOT TO SCALE



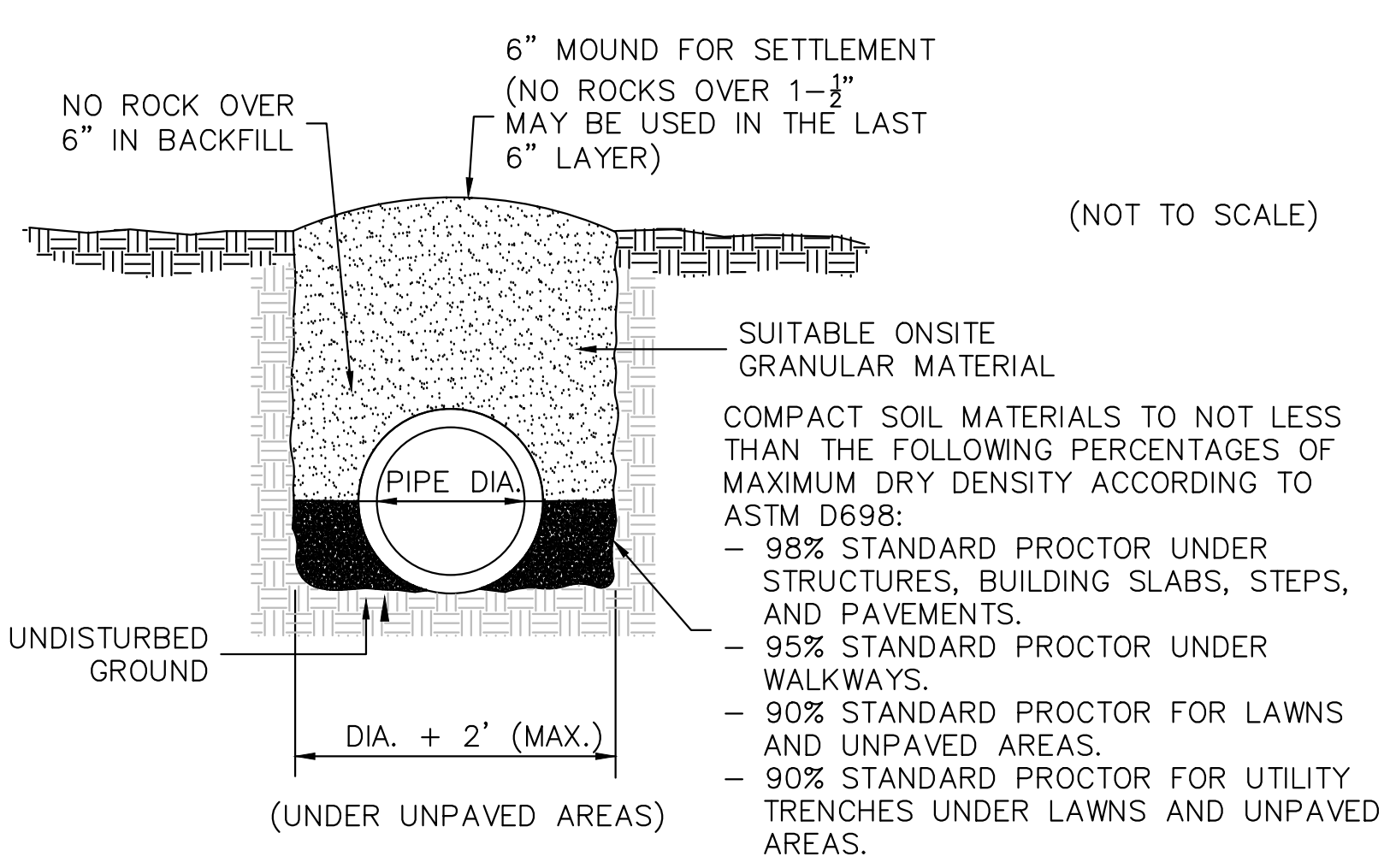
13 Hooded Catch Basin
 SCALE: NOT TO SCALE



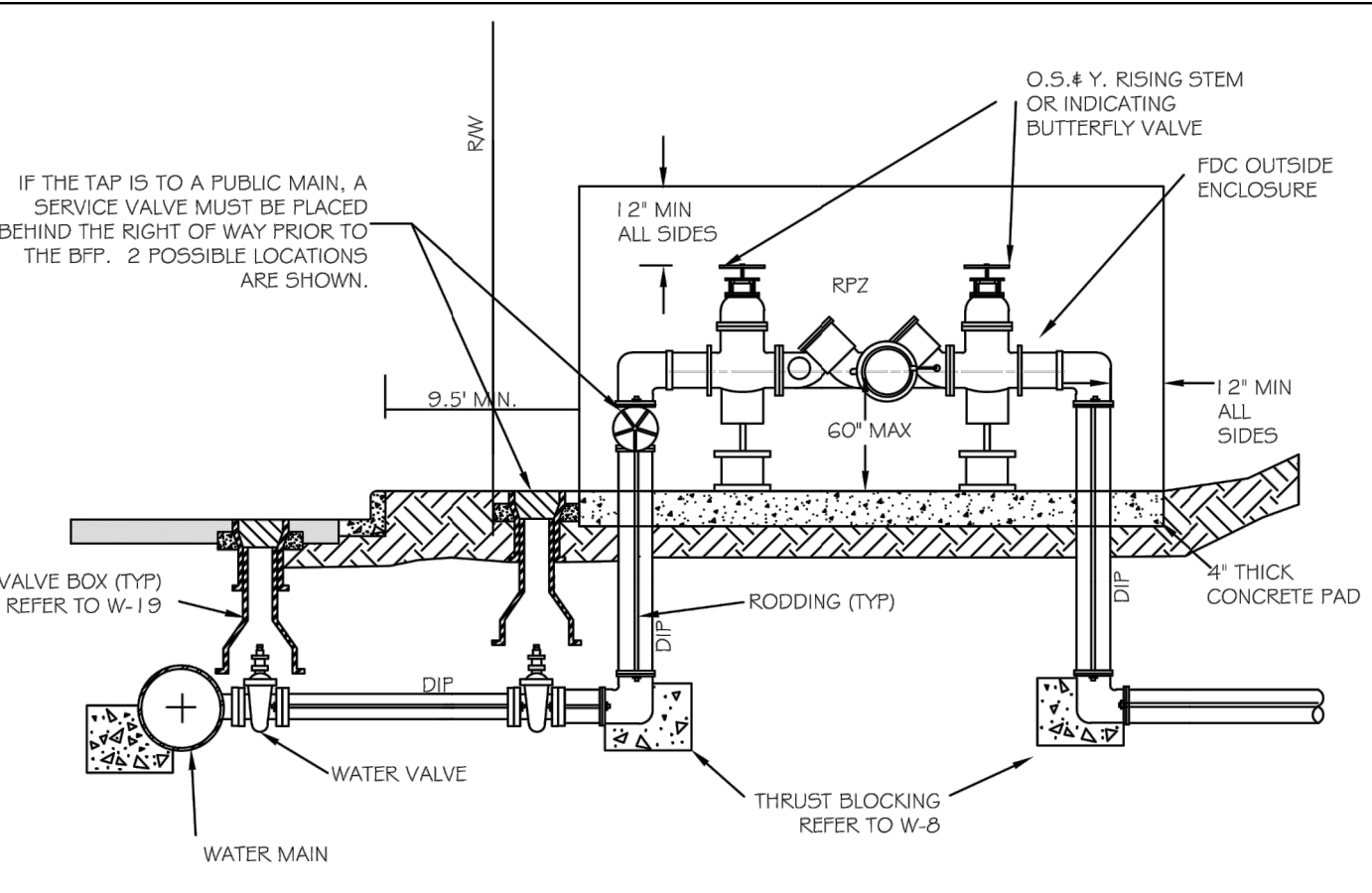
12 JUNCTION BOX
 SCALE: NOT TO SCALE



16 Riprap Apron At Pipe Outfalls
 SCALE: NOT TO SCALE



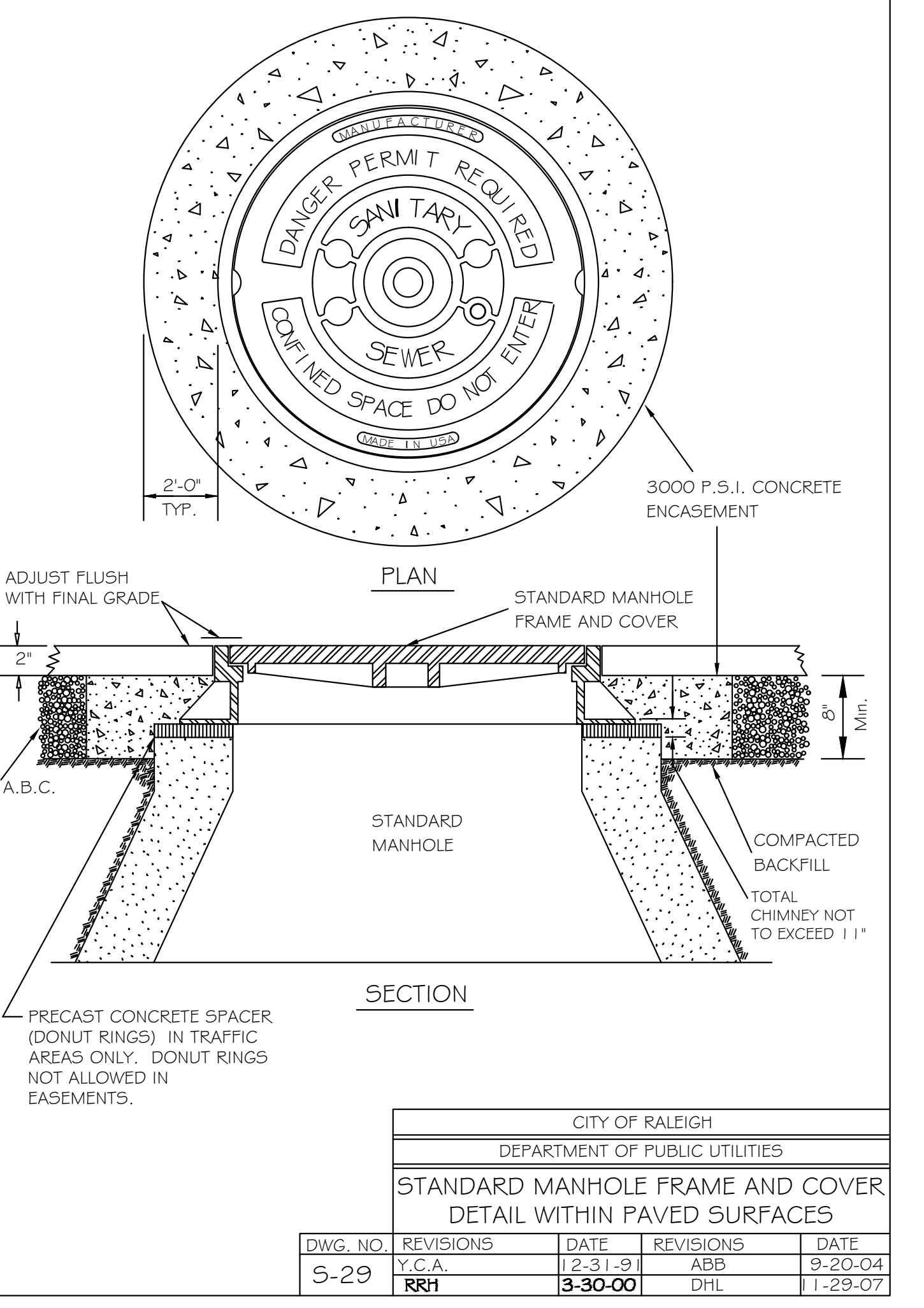
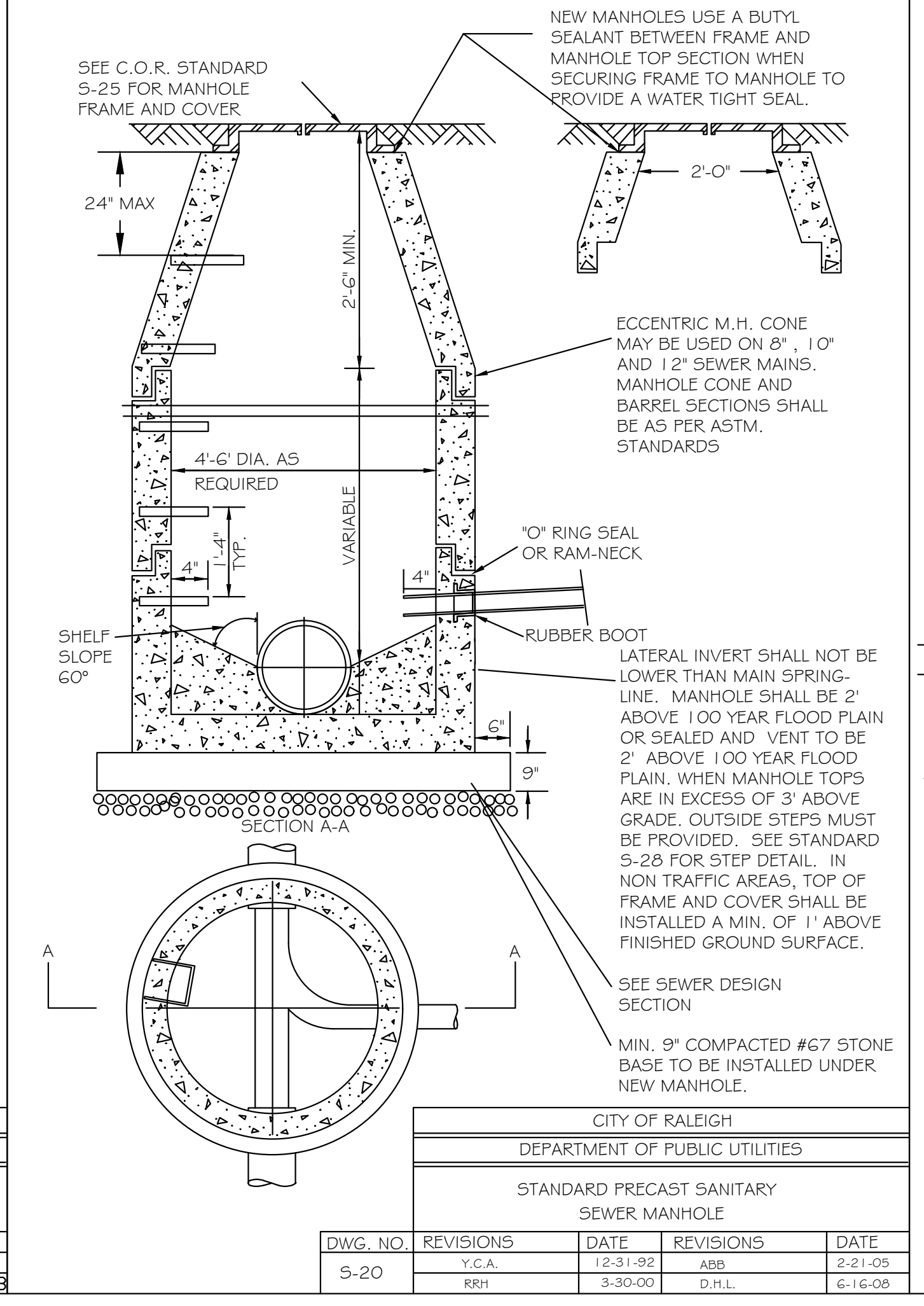
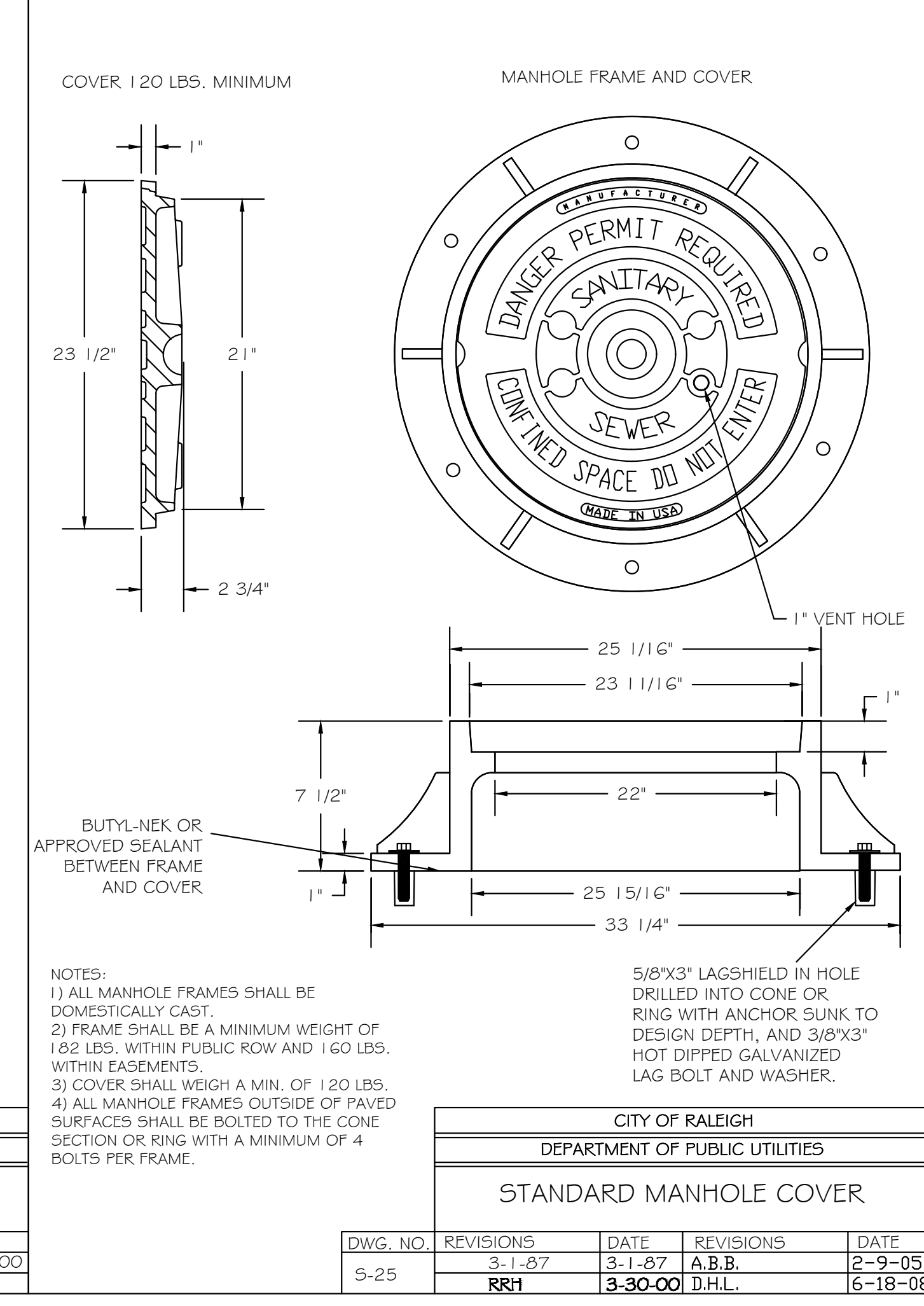
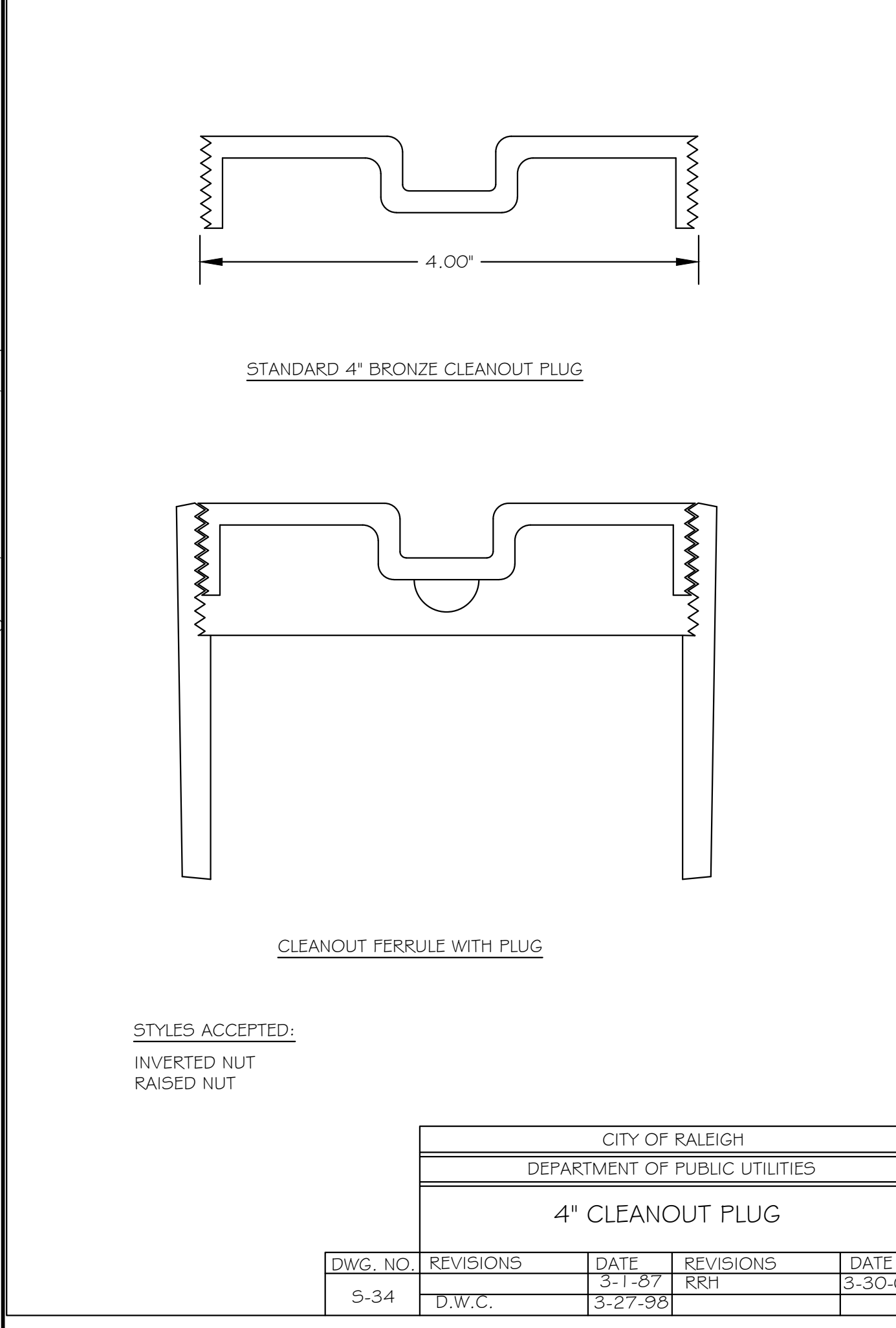
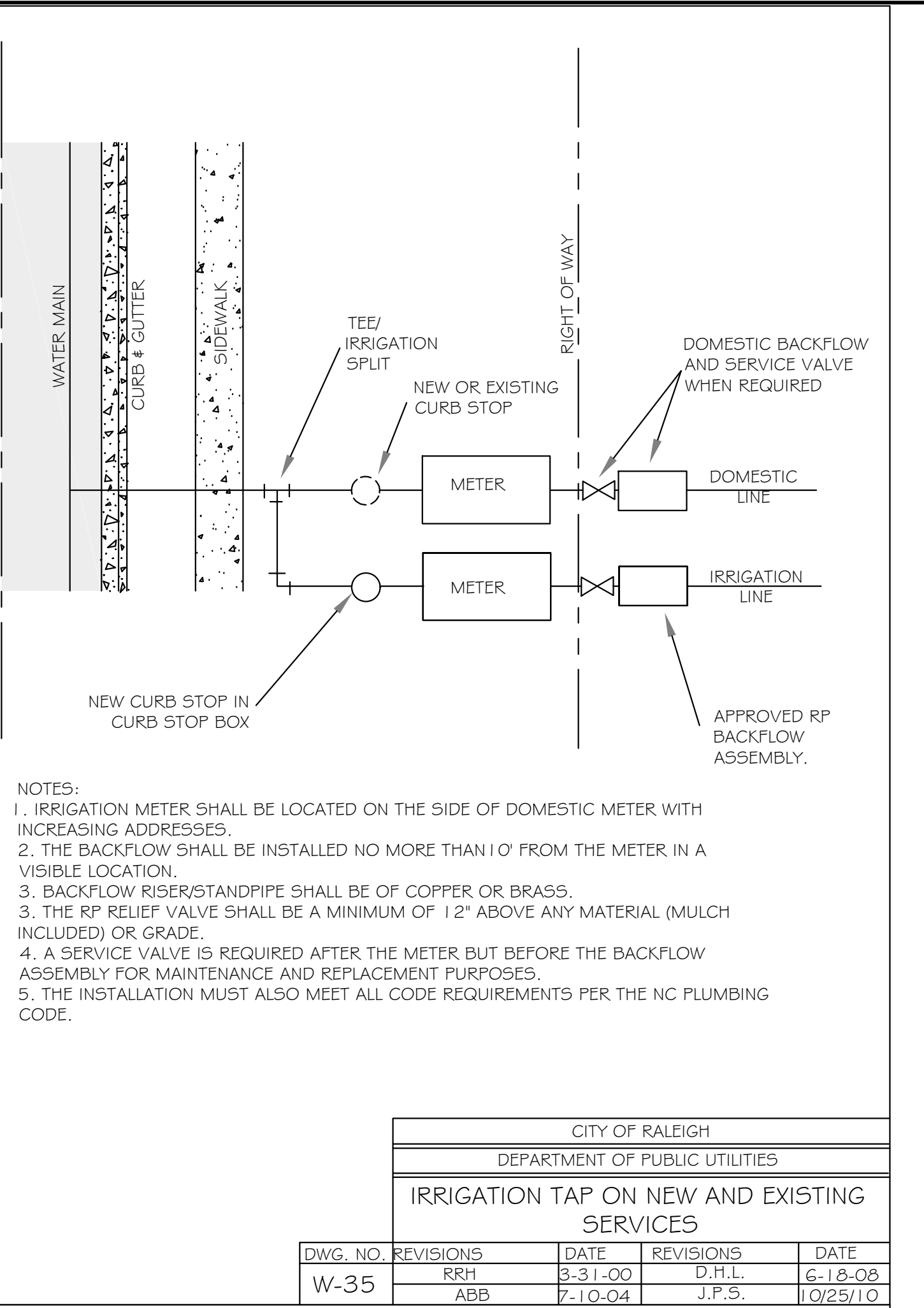
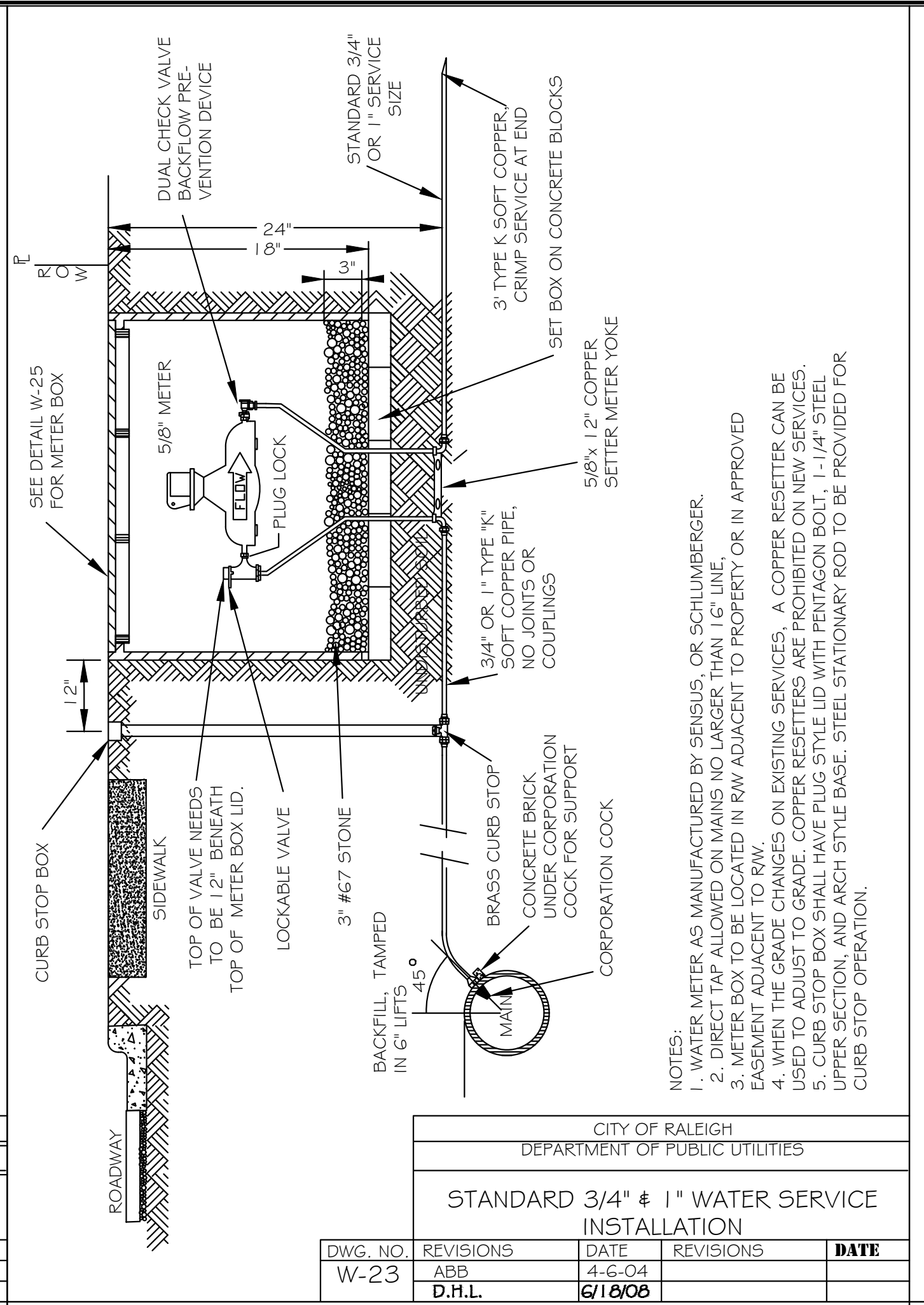
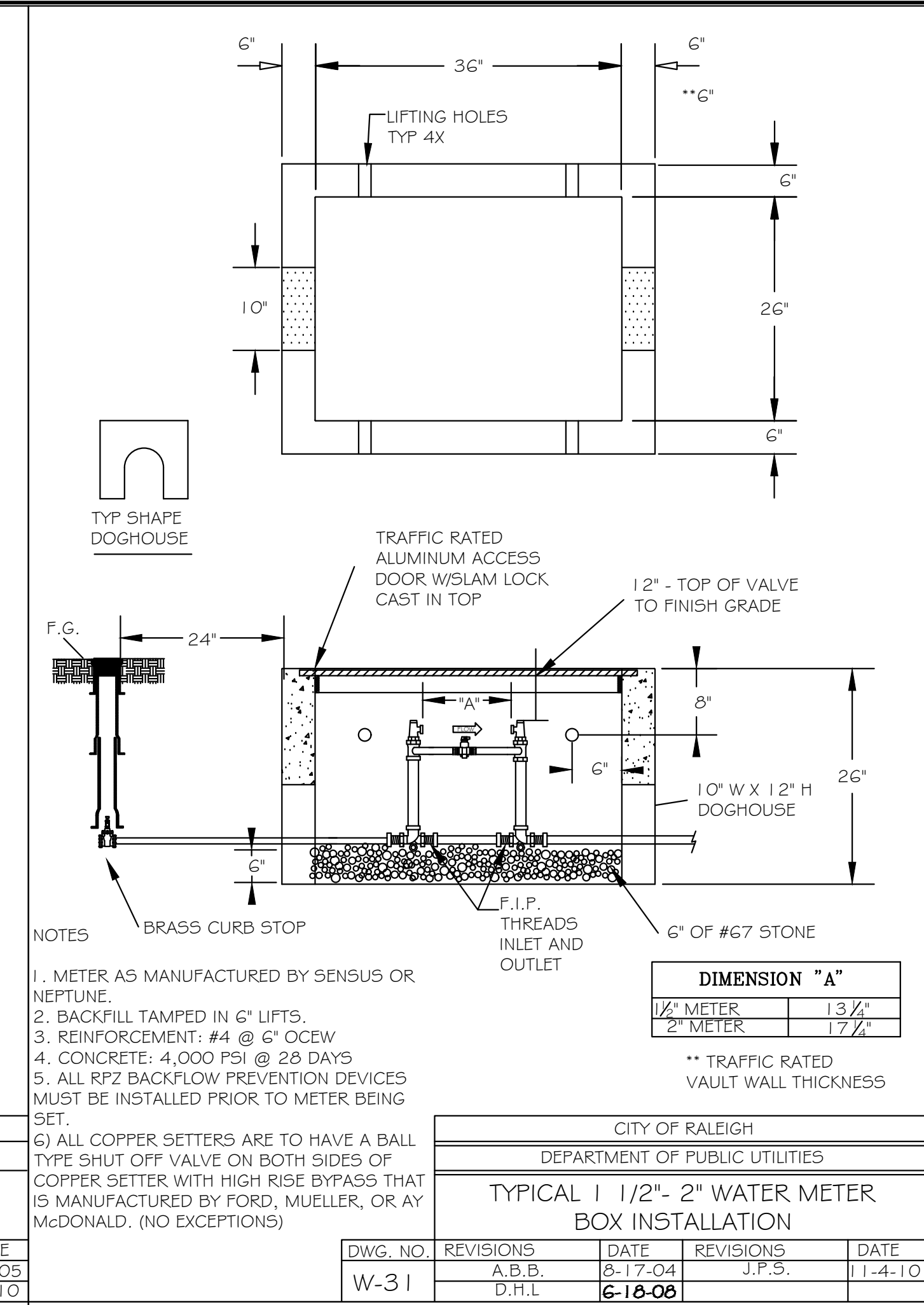
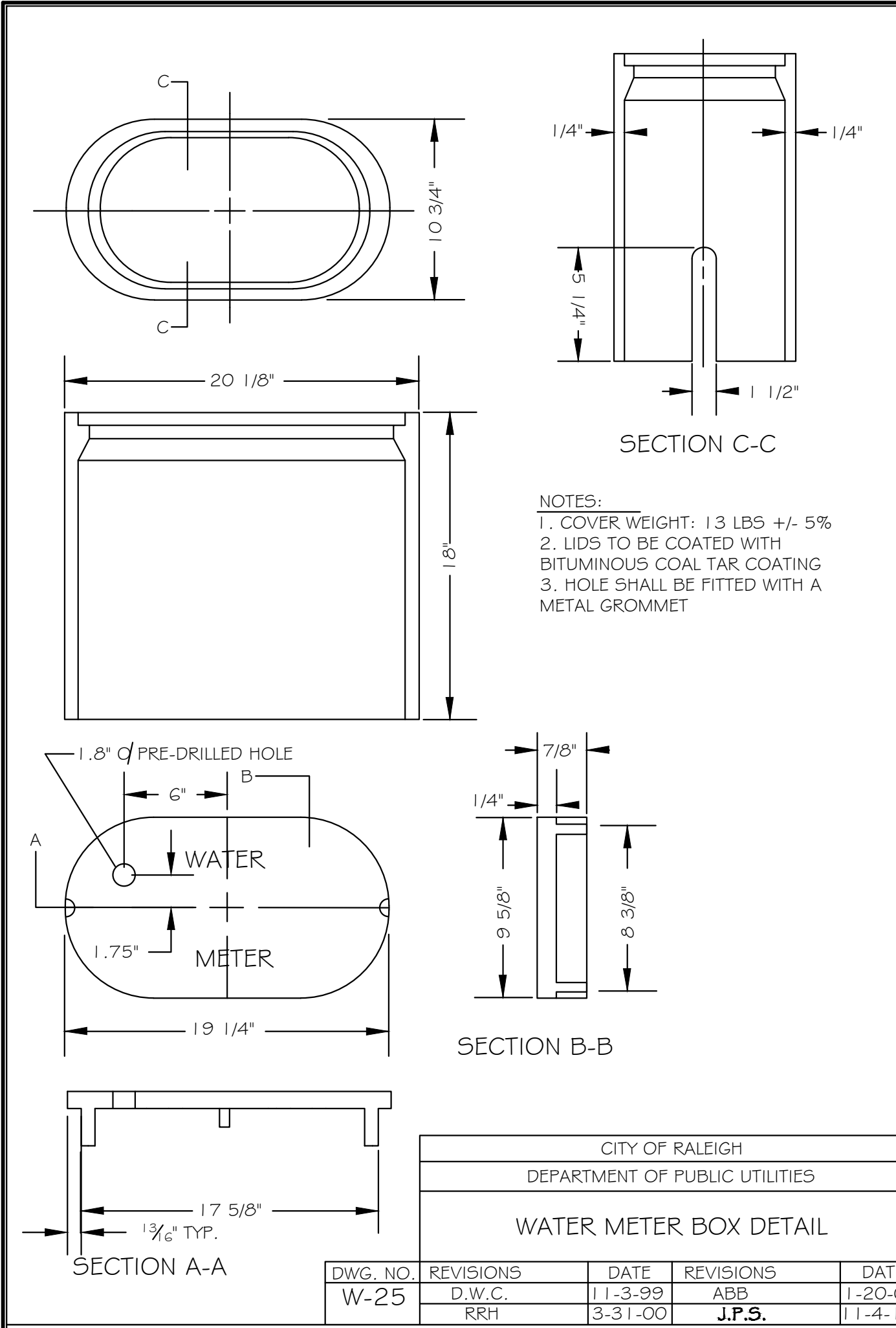
15 STORM DRAINAGE PIPE TRENCH
 SCALE: NOT TO SCALE



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES	
DWG. NO.	W-36
REVISIONS	
DATE	1-23-19
REVISIONS	A, B, C
DATE	7-10-04
DATE	6/10/05

581 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29564 | JUDSONMILLS BUILDING 6000, 701 EASLEY BRIDGE RD, SUITE 6000, GREENVILLE, SC 29611 | 717 N. CEDAR STREET | SUMMERVILLE, SC 29586 | 104 N. DANIEL MCGRAW AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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50 WINDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29564 | JUDSON MILLS BUILDING 6000, 701 EASLEY BROOK RD, SUITE 6000, GREENVILLE, SC 29611 | 230 PERSONNEL DR. | CHARLOTTE, NC 28217 | 710 N. DANIEL MORGAN AVENUE, SUITE 300 | SPARTANBURG, SC 29301
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SW SEAMON WHITESIDE

MOUNT PLEASANT, SC 29564
 GREENVILLE, SC 29611
 SUMMERVILLE, SC 29586
 SPARTANBURG, SC 29301
 CHARLOTTE, NC 28217

NO. C-2466
 CERTIFICATE OF AUTHORITY

SEAMON WHITESIDE & ASSOCIATES, INC.

PROFESSIONAL SEAL
 048282
 10/30/23
 ENGINEER
 JOYMMIE L. LITTLE

TIDAL WAVE AUTO SPA
 ROLESVILLE, NC

SW+ PROJECT: 10772
 DATE: 10/30/23
 DRAWN BY: CPE
 CHECKED BY: DWJ

REVISION HISTORY

NO.	DATE	DESCRIPTION

- GENERAL PLANTING NOTES:**
- THE LANDSCAPE CONTRACTOR SHALL MEET WITH LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK SO THAT THERE IS A CLEAR UNDERSTANDING OF PROJECT REQUIREMENTS. FAILURE TO DO SO JEOPARDIZES FINAL ACCEPTANCE OF WORK.
 - THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND REPAIRING ALL DAMAGE TO BUILDINGS, UTILITIES, PAVEMENT, AND CURB & GUTTER. ANY REPAIRS SHALL BE DONE PROMPTLY AT LANDSCAPE CONTRACTOR'S EXPENSE. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY POSSIBLE CONFLICTS BETWEEN PROPOSED IMPROVEMENTS AND UTILITIES, SIGNS, AND/OR OTHER STRUCTURES.
 - 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 LANDSCAPE 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 PERCOLATE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLING PLANTS.
 - 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, THE LANDSCAPE CONTRACTOR 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.
 - THE LANDSCAPE 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.
 - PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT SCHEDULE ARE FOR REFERENCE ONLY AND THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS.** DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT SCHEDULE 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.
 - 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 (ANSI Z-60.1), UNLESS OTHERWISE SPECIFIED, ANY SIZE SPECIFIED SHALL BE CONSIDERED MINIMUM. **MINIMUMS FOR HEIGHT, SPREAD, OR CALIPER SHALL TAKE PRECEDENCE OVER A SPECIFIED CONTAINER SIZE.**
 - 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 UNDAUNTED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
 - MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEAR'S VERTICAL GROWTH (TOP CANDLE).
 - NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OVERNIGHT.
 - REMOVE BURLAP/STRAPPING AND WIRE BASKET FROM TOP 1/3 OF ROOT BALL ON TREES.
 - REMOVE PAPER, PLASTIC OR METAL AROUND ROOT BALLS OF SHRUBS.
 - DO NOT WRAP TREES.
 - WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING.
 - TREE GUYING MATERIAL SHALL BE 'ARBOR-TIE' OR EQUIVALENT.
 - ALL PLANT BEDS TO BE MULCHED WITH 4" OF DOUBLE SHREDDED HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.
 - 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. SEE SOIL NOTES.
 - 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 SEED PER GRASSING SPECIFICATIONS FOR PERMANENT STABILIZATION.
 - ALL DISTURBED AREAS NOT SPECIFICALLY CALLED OUT ON THIS PLAN SHALL BE SEED PER THE PROVIDED SEEDING SCHEDULE. ALL DISTURBED NATURAL AREAS SHALL BE MULCHED (SEE MULCH SPECIFICATIONS).
 - DRAINAGE TO BE PROVIDED FOR ALL ABOVE GROUND PLANTERS.
 - PLANTINGS SHALL BE PRUNED TO CONFORM WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE CITY, COUNTY, STATE AND FEDERAL REQUIREMENTS.
 - 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.
 - REPLACEMENT OF PLANT 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.
 - SHOULD THE LANDSCAPE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE LANDSCAPE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORDANCE WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.

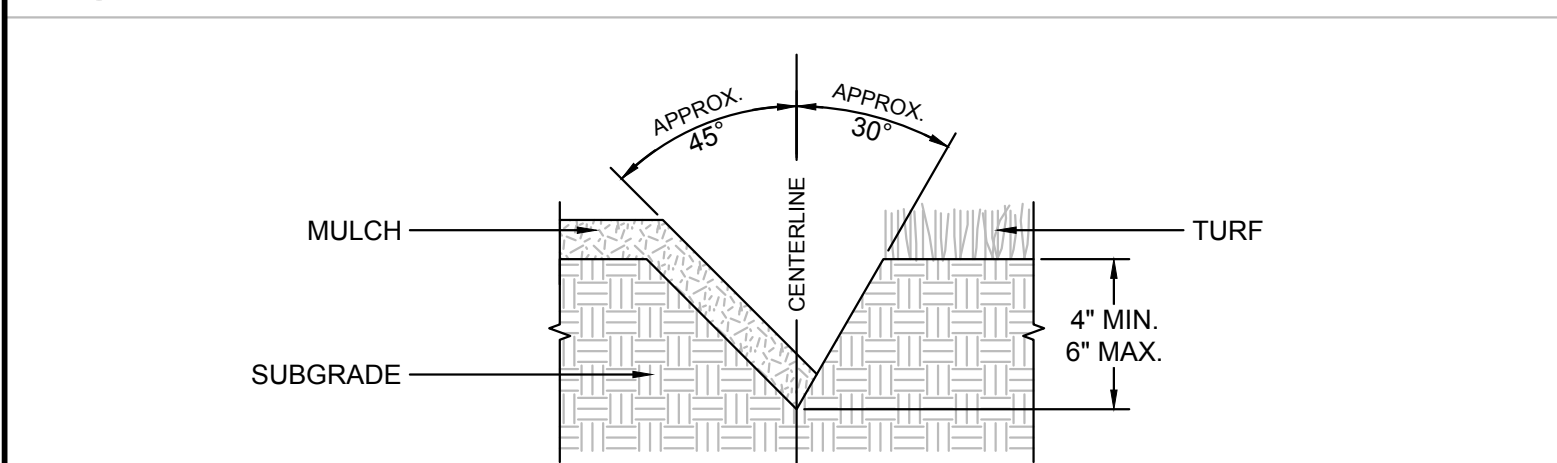
- SOIL NOTES:**
- FOR EACH UNAMENDED SOIL TYPE, FURNISH SOIL ANALYSIS AND A WRITTEN REPORT BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER, GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; SODIUM ADSORPTION RATIO; DELETERIOUS MATERIAL, BUFFER PH LEVELS; AND MINERAL AND PLANT-NUTRIENT CONTENT OF THE SOIL.
 - A MINIMUM OF THREE REPRESENTATIVE SAMPLES SHALL BE TAKEN FROM VARIOUS LOCATIONS FOR EACH SOIL TO BE USED OR AMENDED FOR PLANTING PURPOSES.
 - LANDSCAPE CONTRACTOR SHALL 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.
 - 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.
 - 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.

- IRRIGATION NOTES:**
- LANDSCAPE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED IRRIGATION SYSTEM TO LANDSCAPE ARCHITECT AND OWNER FOR ACCEPTANCE. LANDSCAPE CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEMS, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, RAIN SENSOR, AND CLOCK AND TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW SODDED AND IMPROVED EXISTING GRASS AREAS, TREES, SHRUBS AND PLANTING BEDS. COORDINATE IRRIGATION WITH OWNER'S REPRESENTATIVE.
 - LANDSCAPE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR AUTOMATIC IRRIGATION SYSTEMS. LANDSCAPE CONTRACTOR SHALL PROVIDE ELECTRIC METER, BACKFLOW PREVENTER AND SERVICE IN ACCORDANCE WITH STATE AND LOCAL CODES FOR IRRIGATION SYSTEM. LOCATION OF METERS AND CONTROL PANELS FOR IRRIGATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE WATER METER REQUIREMENTS WITH CIVIL ENGINEER.
 - LANDSCAPE CONTRACTOR TO PROVIDE DRIP IRRIGATION TO ALL ABOVE GROUND PLANTERS. IRRIGATION LINE TO BE INSTALLED BENEATH ADJACENT HARDSCAPE AS NECESSARY.
 - IRRIGATION PIPING, SPRINKLERS, AND OTHER EQUIPMENT MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS ON DRAWING FOR GRAPHIC CLARITY. ALL VALVE BOXES AND EQUIPMENT VALVES SHALL BE LOCATED IN MULCH BEDS.
 - NO IRRIGATION COMPONENTS, INCLUDING BUT NOT LIMITED TO, VALVE BOXES, CONTROL BOXES, BACKFLOW PREVENTERS, AND/OR RAIN SENSORS ARE ALLOWED TO BE INSTALLED WITHIN DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY.

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

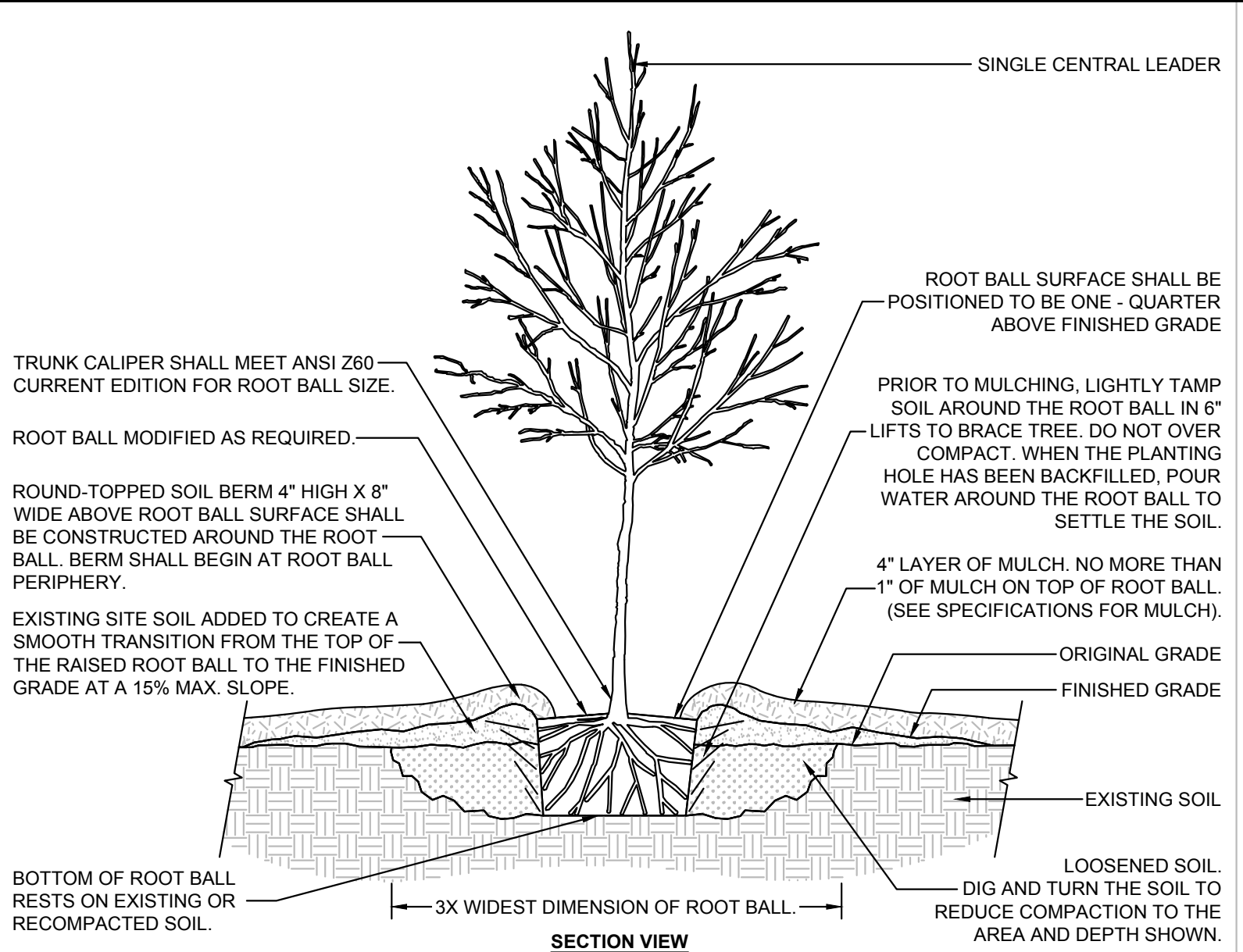
- ABBREVIATIONS:**
- | | | | |
|------------------------------|------------------------|--------------------------|------------------------|
| B&B = BALLED & BURLAPPED | CT = CLEAR TRUNK | GAL = GALLON CONTAINER | RF = REFOOLIATED |
| BR = BARE ROOT MATERIAL | ESP = ESPALIER | HC = HURRICANE CUT | SP = SPECIMEN MATERIAL |
| CAL = TRUNK CALIPER (MIL) | FTG = FULL TO GROUND | MS = MULTI-STEMMED TRUNK | TF = TREE FORM HABIT |
| CON = CONTAINERIZED MATERIAL | FWF = FULL WELL FORMED | OC = ON-CENTER | TYP = TYPICAL |

1 Landscape Notes
SCALE: NOT TO SCALE



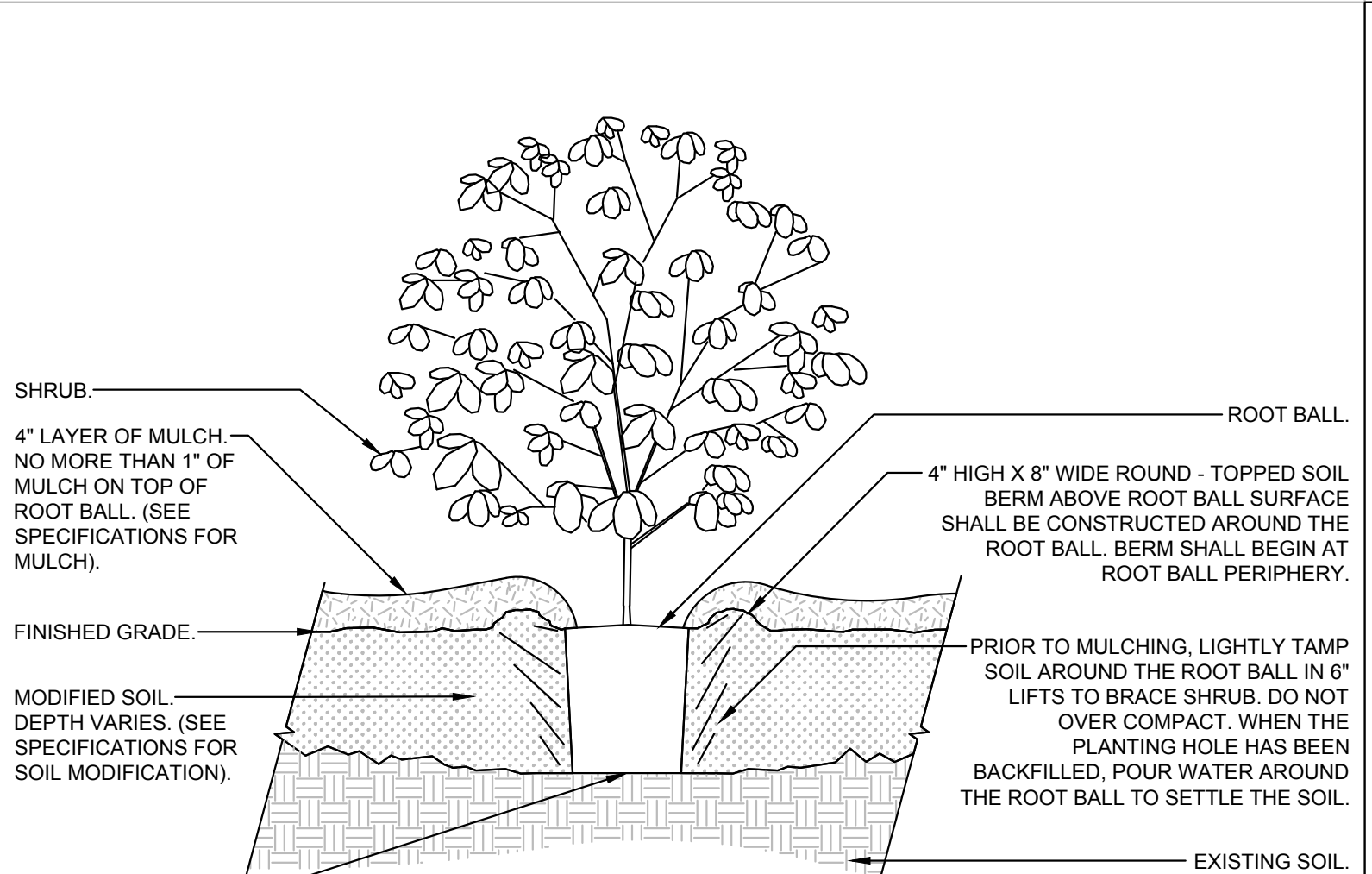
- NOTES:**
- SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.
 - EXCAVATE TRENCH BY HAND WITH SPADE.
 - ADD EXCESS SOIL TO ADJACENT PLANT BED AFTER PULLING BACK EXISTING MULCH. RAKE SOIL AND SMOOTH BEFORE MULCHING.

2 Lawn Edge Detail
SCALE: NOT TO SCALE



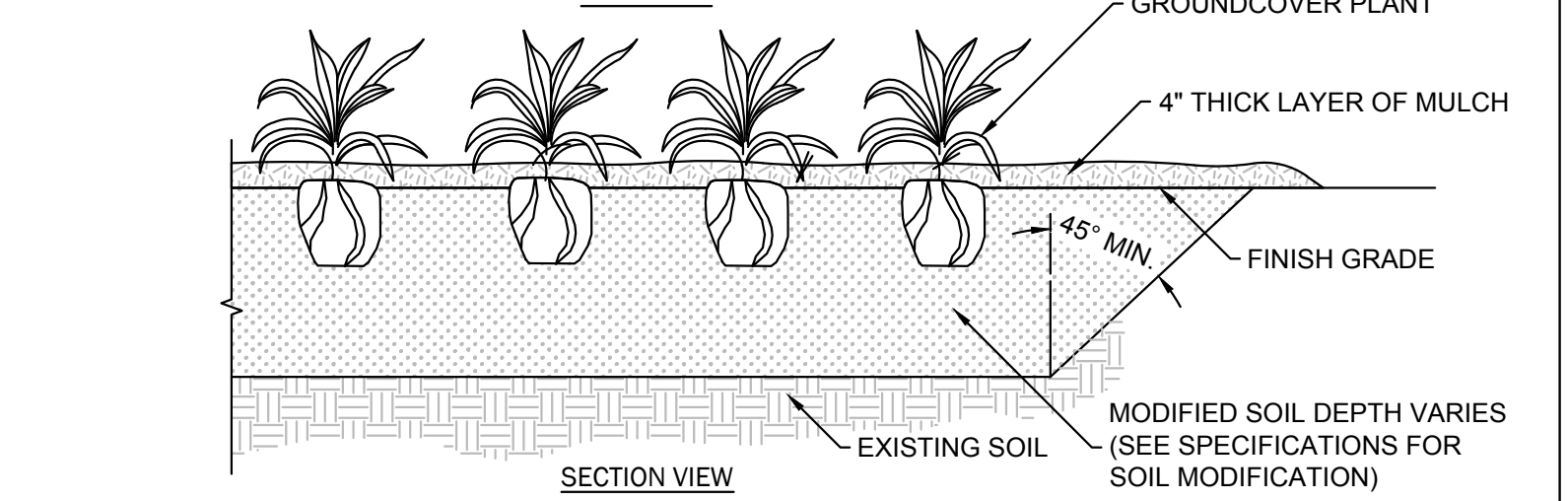
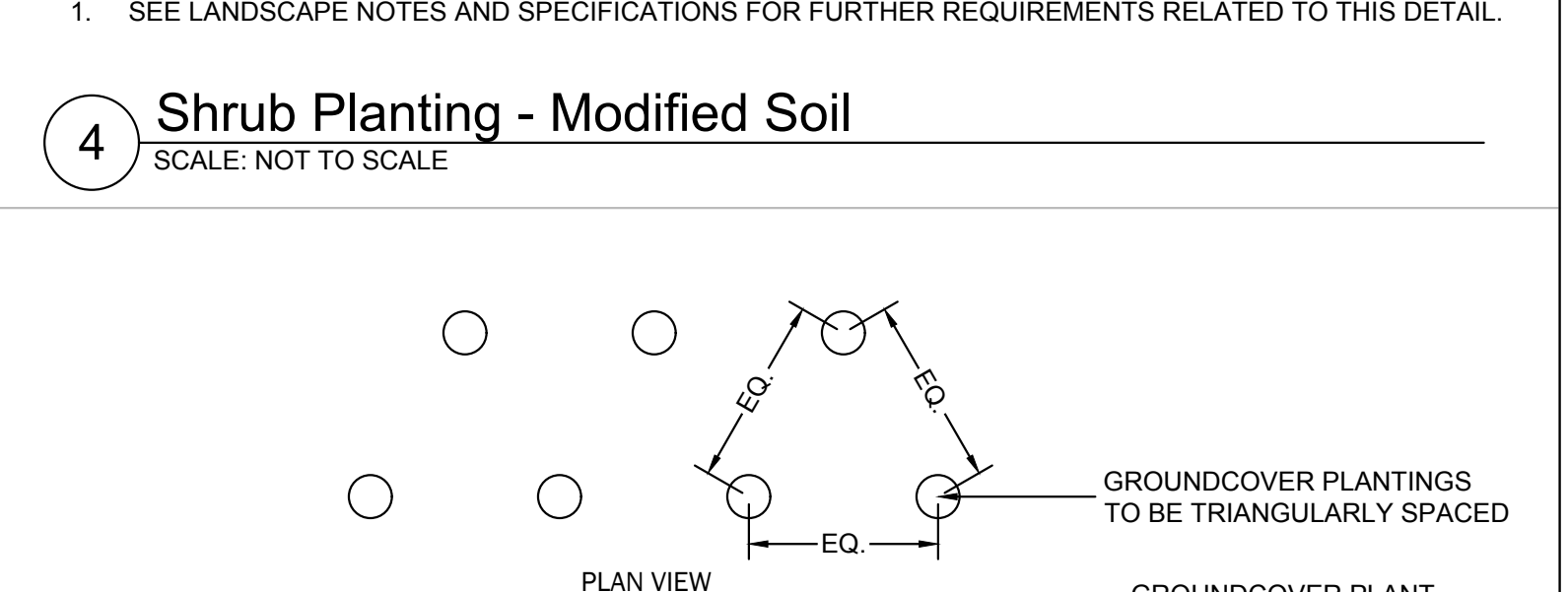
- NOTES:**
- SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

3 Tree in Poorly Drained Soil
SCALE: NOT TO SCALE



- NOTES:**
- SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

4 Shrub Planting - Modified Soil
SCALE: NOT TO SCALE



- NOTES:**
- SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.
 - SEE PLANT SCHEDULE FOR PLANT SPECIES, SIZE, AND SPACING DIMENSION.
 - SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.
 - THOROUGHLY TILL IN PLANTING SOIL MIXTURE AMENDMENTS TO DEPTH OF 8" IN ENTIRE GROUND COVER BED AREA. WORK SOIL TO LOOSE, UNIFORMLY FINE TEXTURE.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE FROM PLANTING HOLE/BEDS IF COMPACTED SOILS OR POORLY DRAINED SOIL IS ENCOUNTERED.
 - HAND-TAMP BACKFILL TO REMOVE VOIDS AND AIR POCKETS. WATER IMMEDIATELY AFTER PLANTING UNTIL NO MORE WATER IS ABSORBED.

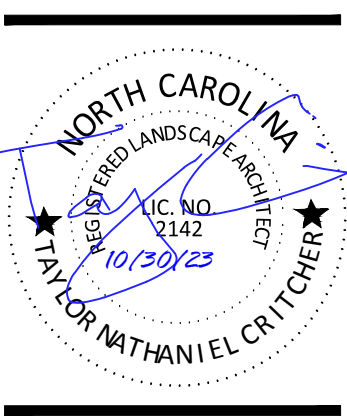
5 Groundcover / Ornamental Grass Planting Detail
SCALE: NOT TO SCALE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	ACRO	3	ACER RUBRUM 'OCTOBER GLORY' TM / OCTOBER GLORY MAPLE	2.5" CAL	6'-8"	4'-6"	AS SHOWN	FWF, SP
	ULMP	6	ULMUS PARVIFOLIA / CHINESE ELM	2.5" CAL	6'-8"	4'-6"	AS SHOWN	FWF, SP
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	CERO	2	CERCIS CANADENSIS 'OKLAHOMA' / OKLAHOMA REDBUD	1.5" CAL	6'-8"	8"	AS SHOWN	FWF, SP
	CHIV	7	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE	1.5" CAL	6'-8"	8"	AS SHOWN	FWF, SP
	MAGS	5	MAGNOLIA X SOULANGIANA / SAUCER MAGNOLIA	1.5" CAL	6'-8"	8"	AS SHOWN	MS, FWF, SP
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	ABES	33	ABELIA X GRANDIFLORA 'SHERWOODII' / DWARF ABELIA	3 GAL	18"-24"	18"-24"	AS SHOWN	FWF, SP
	AZAF	22	AZALEA INDICA 'FORMOSA' / FORMOSA AZALEA	3 GAL	18"-24"	18"-24"	AS SHOWN	FWF, SP
	ILCB	30	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY	3 GAL	18"-24"	18"-24"	AS SHOWN	FWF, SP
	LCRR	27	LOROPETALUM CHINENSE RUBRUM 'RUBY' / DWARF RUBY FRINGE FLOWER	3 GAL	18"-24"	18"-24"	AS SHOWN	FWF, SP
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	MUHL	54	MUHLENBERGIA FILIPES / SWEETGRASS	3 GAL	18"-24"	18"-24"	AS SHOWN	FWF, SP
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	LMBB	422	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
	SOD2	27,213 SF	CYNODON DACTYLON 'TIFTUF' / TIFTUF BERMUDA GRASS	SOD	N/A	N/A	N/A	SP

6 Plant Schedule
SCALE: NOT TO SCALE

SW SEAMON WHITESIDE

MOUNT PLEASANT, SC 843.884.1667
GREENVILLE, SC 864.298.0534
SUMMERVILLE, SC 843.972.0710
SPARTANBURG, SC 864.272.1272
CHARLOTTE, NC 980.312.5450
WWW.SEAMONWHITESIDE.COM



TIDAL WAVE AUTO SPA
ROLESVILLE, NC

SW+ PROJECT:	10772
DATE:	10/30/23
DRAWN BY:	CPE
CHECKED BY:	DWJ

REVISION HISTORY

NO.	DESCRIPTION

PLANT SCHEDULE & DETAILS & NOTES