

**City of York**



**York Police Department Gun Range  
Phase I**

**Request for Proposal  
RFP #2024-0001**

**DUE: Tuesday, April 9, 2024, at 2:00pm**

PO Box 500 | 10 N. Roosevelt St. | York, South Carolina 29745 | (803) 684-2341

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**April 9, 2024**  
**REQUEST FOR PROPOSAL**  
**RFP # 2024-0001**

The City of York, SC is soliciting Requests For Proposals by Contractors to submit proposals for updating the City of York Police Department Gun Range. The original (1) and two (2) copies **FOR A TOTAL OF THREE (3) PROPOSALS**, and one (1) digital copy on a flash drive marked "York Police Department Gun Range Phase I" will be received in a sealed envelope not later than 2:00 PM on Tuesday, April 9, 2024, at:

The City of York  
Attn: Amy Craig, Municipal Clerk  
York City Hall  
P.O. Box 500 (Postal Service)  
10 N. Roosevelt St. (UPS, Fed Ex, or in-person)  
York, SC 29745

Facsimile and/or electronic proposals will not be accepted. Proposals received after the announced time and date of receipt, by mail or otherwise, will be returned unopened. Nothing herein is intended to exclude any responsible firm or in any way restrain or restrict competition. On the contrary, all responsible firms, local, faith-based, minority-owned, and female-owned, are encouraged to submit a proposal.

The City of York reserves the right to reject any or all of the proposals and/or to waive informalities for any or all proposals. Any proposal submitted **MUST** be signed by an individual authorized to bind the offer.

## Mandatory Pre-Bid Meeting

**Tuesday, March 26, 2024, 10:00am**

**2498 Ecology Road**  
**York, SC 29745**

## **INTRODUCTION**

### **Proposal Requested**

The City of York is in search of a Contractor for;

Tree removal, clearing and grubbing, and sediment & erosion control; Berm construction, backfilling, and storm drainage device installation as shown on project plans (pipe, yard inlets, and swales); grading and fine grading, concrete pad & aggregate base installation; landscaping and hydro seeding; and standard soil (classification & proctor) and concrete cylinders (strength) testing as recommended by ACI and verified by an independent testing laboratory.

Limited tree removal as directed by the city; trees, brushes, and unsuitable soil be disposed on site at a location selected by the city (approx. 2,000 feet from the existing gun range); existing materials including building, storm drainage, and concrete be disposed at the closest certified landfill; Borrow material for infill and/or embankment areas is available on site.

See the Project Scope included within this RFP for complete details.

### **Project Background**

The Chief of Police will lead the project with assistance from the Public Utilities Director with oversight from the City Manager. Final approval will be required through the City Council. Throughout the process, additional engagement with other staff, engineer of record, and other associated parties will be expected. Communication with and to those groups will be coordinated through the project leader, which is the Chief of Police.

## **SCOPE OF WORK**

### **Task 1 - Demolition**

Refer to the City of York, SC Gun Range Plan set, sheets No. GN & DP.

### **Task 2 – Storm Water Infrastructure**

Refer to the City of York, SC Gun Range Plan set, sheets No. GN, DT, & GD.

### **Task 3 – Grading and Clearing**

Refer to the City of York, SC Gun Range Plan set, sheets No. GN & CS.

### **Task 4 – Hydro Seeding and Shrubs**

Refer to the City of York, SC Gun Range Plan set, sheets No. GN & LP.

### **Task 5 – Concrete Finishing**

Refer to the City of York, SC Gun Range Plan set, sheets No. GN, PF, & RBD.

## **GENERAL INFORMATION AND INSTRUCTIONS**

### **Procurement Process**

This RFP is not a bid. In the event the City elects to negotiate a contract with the successful, responsive proposer, any contract shall contain, at a minimum, requirements. In its sole discretion, the City reserves the



right to reject all submissions, reissue a subsequent RFP, terminate, restructure, or amend this procurement process at any time. The final selection and contract negotiation rests solely with the City. No direct or indirect contact with the Mayor of the City of York or City of York Council members will be allowed. The City reserves the right to reject the proposal if such contact is made.

## Questions

Questions are allowed and encouraged in order to clarify the contents of this RFP or to offer any proposed changes. The City will not accept telephone calls or visits regarding this RFP. No interpretation shall be binding unless in writing from the City of York.

Requests for additional information and questions must be submitted in writing via letter or email to Brian A. Trail, City of York, PO Box 500, York, SC 29745, or email: [Btrail@yorksc.gov](mailto:Btrail@yorksc.gov). The additional information and questions deadline is Tuesday April 2, 2024, at 12:00 pm.

The City may accept the RFP from one of the Contractors from the list or negotiate with the Contractors as appropriate. The City reserves the right to negotiate all final terms and conditions of any agreements entered into.

## PROPOSAL FORMAT

**Scope of Work** Describe the Contractor's approach to accomplishing the objectives stated in the RFP and identify the scope of work. The Contractor is encouraged to include suggestions, which may enhance the project or streamline the scope of work and improve cost-effectiveness. State your assumptions clearly.

**Work Timeline** Include a proposed timeline showing the estimated length of time for completing the Gun Range. Time estimates should be expressed in days/weeks without reference to a specific starting date. The timeline should identify when the Notice to Proceed is executed and substantial completion, and also include a duration of project closeout, which will be submitted to City staff.

**Statement of Qualifications and Relevant Experience:** Include any related supplemental information concerning key personnel or team experience that may be relevant. Please identify the project manager and principal contact assigned to the project (it is strongly preferred that they be one and the same person).

**Contract Information** Contract agreements will be finalized between the City and the Contractor after the selection procedure is completed. A payment schedule will be negotiated at that time.

**Signature** The proposal shall be signed by an official authorized to bind the Contractor and shall contain a statement guaranteeing that the proposal/cost estimate is valid for sixty (60) days.

**References** List no less than three (3) reference clients for whom similar or comparable services have been performed. Include the primary contact person's name, mailing address, and telephone number.

**Cost Summary** The cost summary shall be submitted in a separate sealed envelope. All costs should reflect "not to exceed" figures. Fee schedules, including hourly rates for the prime Contractor and all subcontractors, meetings, and reproduction costs, should accompany the cost summary.

**Insurance Requirements** The successful respondent will be required to maintain current insurance for the duration of the project. Insurance policies shall be maintained for Errors and Omissions, General Liability, Automobile, and Worker's Compensation.

## **PROPOSAL SUBMITTAL**

Three (3) labeled copies of the proposal (one (1) original copy and two (2) hard copies plus one (1) digital copy) with separate sealed and labeled envelopes containing the cost estimate and fee schedules must be received by the City Hall office, Attn: Amy Craig (10 N. Roosevelt St, York, SC, 29745) no later than 2:00 pm on Tuesday April 9, 2024. Late postmarks will not be accepted. The City of York will not pay for any costs incurred by any Contractor resulting from the preparation or submittal of a proposal in response to the RFP. The City reserves the right to modify or cancel in part, or in its entirety, the RFP. The City reserves the right to reject any or all proposals and to waive any defects and/or informalities.

## **ATTACHMENTS**

1. Bid Tabulation
2. Plan Set



Mr. Ben Wright

Email:

	<u>No.</u>	<u>Division</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit cost</u>	<u>Total</u>
<b>General</b>	1	Mobilization	1	LS		
	2	Construction Surveying	1	LS		
	3	Temporary Silt Fence	450	LF		
	4	4" Crushed Agg. 10'Wx20'Lx1'D for Construction Entrance	8	TN		
	5	Clearing & Grubbing	1	AC		
	6	Grading	1	LS		
	7	Undercut Excavation	115	CY		
	8	Borrow Excavation-Hauling	1,280	CY		
<b>Demolition/Diposal</b>	9	Tree Removal (DBH varies from 10" to 22" in diam.)	20	EA		
	10	Exist. Building Conc. Slab	7	TN		
	11	Exist. Range Conc. Slab	10	TN		
	12	Exist. Wood Building Structure	5	TN		
	13	Exist Storm Drainage plastic Pipe	82	LF		
	14	Construction Mat. Landfill Dumping Fees	40	TN		
<b>Landscaping</b>	15	Hydro Seeding	1	AC		
<b>Storm Drainage</b>	16	15" RC Pipe Class III	98	LF		
	17	#57 Stone (for Pipe)	26	TN		
	18	Masonry Drainage Structure (Yard Inlets)	2	EA		
	19	USF Frame # 4139	2	EA		
	20	USF Grate # 6429	2	EA		
	21	Rip Rap Class B (Outfall)	5	TN		
	22	10 ft 15" Flared end Section	1	EA		
	23	2' Wx1' D V-Shape Grass Swale Excavation	312	LF		
<b>Range Conc. Pad</b>	24	Aggregate Base Course	97	TN		
	25	5" Thick Conc. Pad	97	CY		
	26	Welded Wire Mesh - 6x6 w1.4 x w1.4	693	SY		
	27	Field Thermo Pavement Marking Lines 4" Wide	580	LF		
	28	1" Electrical Conduit in conc. Pad for (Target System)	190	LF		
<b>Testing</b>	29	Soil Density Nuclear Method (1/2 Day Technician)	2	EA		
	30	Borrow Soil Classification	1	EA		
	31	Borrow Soil Proctor (Proctor Compaction 4" Mold)	1	EA		
	32	Conc. Cores (3 sets per every 25 CY)	12	EA		
<b>Bid Total:</b>						
<b>Alternate</b>	33	4" Deep Conc. Sidewalk	156	SY		



DRAWING INDEX:

GENERAL	COVER SHEET GENERAL NOTES	CS GN
CIVIL	EXISTING CONDITIONS DEMOLITION PLAN GRADING & DRAINAGE DETAILS PROFILES	EC DM GD DT PF
ARCHITECTURAL	XXX XXX	A1 A2
STRUCTURAL	XXX XXX	S1 S2
ELEC. & MECH	XXX	E1

City of York, South Carolina  
Gun Range Facility

SERVING:

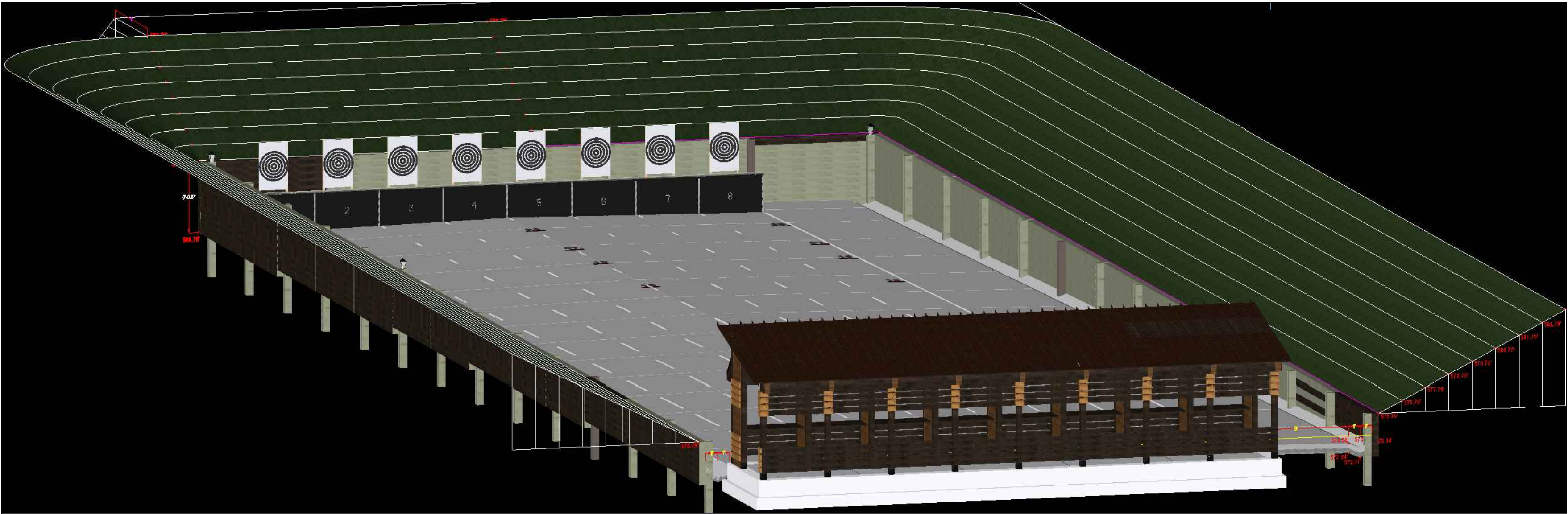
CITY OF YORK POLICE DEPAT.  
YORK CO. SHERIFF'S DEPT.  
WINTHROP UNIVERSITY POLICE DEPT.  
SFC USARMY 926 ENG BDE (USA)



VICINITY MAP

LEGEND:

- FLOW DIRECTION
- 2% SLOPE OF LANE CONC. SURFACE
- EXIST. TREES TO BE REMOVED
- EXIST. TREES TO REMAIN
- EXIST. CHAIN LINK FENCE
- XXX.X PROPOSED ELEVATIONS
- XXX.0 GROUND ELEV.
- XXX.0 TURNING POINT ELEV.
- XXX.0 BOTTOM OF EXIST. SLOPE ELEV.
- XXX.0 EXIST. GROUND ELEV.
- XXX.0 EXIST. GRAVEL ROADWAY ELEV.
- SS SANITARY SEWER
- EXIST. STORM DRAINAGE PIPE TO REMAIN
- EXIST. STORM DRAINAGE TO BE REMOVED
- EXISTING CONTOUR LINES
- PROPOSED CONTOUR LINES
- BENCH MARK
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- EXIST. CURB & GUTTER
- TOP OF CONC. SLAB
- TOP OF BASE COURSE
- TOP OF COMPACTED SUB-GRADE
- 5" AGGREGATE BASE
- CONCRETE
- PIPE BEDDING
- COMPACTED SUBGRADE
- 2'X3' YARD INLET
- EJ = EXPANSION JOINT
- PAVEMENT MARKING
- CJ = CONTROL JOINT
- TARGET CONC. BLOCK RETAINING WALL
- TARGET TIMBER RETAINING WALL
- COMMON BRICK



CONSTRUCTION SEQUENCE:

- COORDINATE A JOBSITE VISIT W/ THE CLIENT.
- ATTEND PRE-CONSTRUCTION MEETING, REVIEW PLANS, AND SUBMIT RFIs WHERE NEEDED.
- OBTAIN A GRADING PERMIT PRIOR TO CONSTRUCTION.
- INSTALL NECESSARY EROSION CONTROL DEVICES (E.G. SILT FENCE).
- CLEAR & GRUB SITE (EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- BEGIN ROUGH GRADING.
- DILIGENTLY MAINTAIN EROSION CONTROL DEVICES DURING GRADING OPERATION.
- AS AREAS ARE BROUGHT TO FINISHED GRADE, THEY SHALL BE SEEDED AND FERTILIZED AS SOON AS POSSIBLE.
- INSTALL STORM DRAIN SYS. AND PLACE INLET PROTECTION AS EACH INLET IS INSTALLED.
- PERMANENTLY STABILIZE ALL DISTURBED AREAS.
- REQUEST APPROVAL TO REMOVE EROSION CONTROL MEASURES FROM INSPECTOR OR SWPPP PREPARER.
- UPON APPROVAL REMOVE TEMP. EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED.
- SUBMIT A NOTICE OF TERMINATION TO SCDHEC ONCE EROSION CONTROL MEASURES HAVE BEEN REMOVED & THE SITE IS COMPLETELY STABILIZED.

CLIENT:

CONTACT: BEN WRIGHT  
CITY OF YORK  
10 N. ROOSEVELT ST.  
YORK, SC 29745  
(803) 684-2341

REVIEWING AGENCIES:

CONTACT: PLANNING DEPT.  
CITY OF YORK  
10 N. ROOSEVELT ST.  
YORK, SC 29745  
(803) 684-2341

ENGINEERING FIRM:

CONTACT: PAT SADEK P.E.  
AESTHETIC CONCEPTS, PLLC  
9651 THORN BIRD DRIVE  
CHARLOTTE, NC 28270  
(843) 467-8478

CONTACT: SCDHEC

SCDHEC  
2600 BULL ST.  
COLUMBIA, SC  
(803) 898-3432

SURVEYING FIRM:

CONTACT: BILL WHITE  
WHITE LAND SURVEYING  
421 E BLACK ST.  
ROCK HILL, SC 29730  
(803) 327-5758

CONTACT: MS. MELINDA

CRONENBERGER.  
FLOODPLAIN MANAGEMENT  
18 WEST LIBERTY STREET  
YORK, SC 29745  
(803) 909-7157

UTILITY PROVIDERS:

ELECTRICITY  
DUKE ENERGY  
550 TRYON ST  
CHARLOTTE, NC 28202  
(704) 812-2316

SC WILDLIFE FEDERATION

455 ST. ANDREWS RD.,  
SUITE B1.  
COLUMBIA, SC 29210 USA  
(803) 256-0670

ABBREVIATION:

EXIST. = EXISTING	W/IN = WITHIN
W/ = WITH	MIN. = MINIMUM
CONC. = CONCRETE	R/W = RIGHT-OF-WAY
REINF. = REINFORCED	MAT. = MATERIALS
INV. = INVERT	HORZ. = HORIZONTAL
EQUIP. = EQUIPMENT	NAT. = NATURAL
TEMP. = TEMPORARY	SEC. = SECTION
SYS. = SYSTEM	THICK. = THICKNESS
& = AND	DOCS. = DOCUMENTS
VEH. = VEHICULAR	CJ = CONTRACTION JOINT
BUILD. = BUILDING	FT = FOOT/FEET
TECH. = TECHNICAL	S.S. = STAINLESS STEEL
SPECS. = SPECIFICATIONS	TEMP. = TEMPORARY
DWGS. = DRAWINGS	ELEV. = ELEVATION
DIAM. = DIAMETER	DEG. = DEGREE
HOURS = HRS.	SRVCS. = SERVICES



CALL 811-888-721-7877



Address: 2020 Independence Commerce Dr. Suite E & F  
Matthews, NC 28105  
U.S.A.  
Cell: (843) 467-8478  
Email: psadek@aestheticconceptsus.com

Project Name:  
City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title:  
COVER SHEET

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/24 Scale: 1"=20'  
Job No.: COY-CS-7930

Sheet No.:  
CS





GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHOD, AND TECHNIQUES OF CONSTRUCTION SEQUENCING & SUPERVISING OF THE WORKS IS THE ROLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO START OF NEW WORK.
3. THE GENERAL CONTRACTOR SHALL COMPARE THE CIVIL & STRUCTURAL DWGS & REPORT ANY DISCREPENCIES BETWEEN AND W/IN EACH SET OF DRAWINGS TO THE PROJECT ENGINEER PRIOR TO THE FABRICATION & INSTALLATION OF STRUCTURAL MEMBERS.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OF THE CONTRACT DOCS & LATEST AGENDA AND FOR SUBMITTING SUCH DOCUMENTS TO ALL SUBS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
5. IN THE EVENT OF A DISCREPANCY BETWEEN DRWG W/ REGARD TO STATION NUMBERS, INVERT ELEV, CULVERT SIZES, THE DRAINAGE DRAWINGS WILL GOVERN. NOTIFY THE ENGINEER IMMEDIATELY IF SUCH A DISCREPANCY IS DISCOVERED.
6. WALL DETAILS HAVE BEEN DESIGNED TO RESIST THE CODE REQUIRED LOADS THAT WILL OCCUR IN THEIR FINAL BRACING AND/OR SHORING DURING CONSTRUCTION TO MAINTAIN THE STABILITY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURE IS COMPLETED.
7. CONTRACTOR SHALL SUBMIT SHOP DRWGS ON ALL MATERIALS PRIOR TO FABRICATION THE STRUCTURAL DRWGS/DETAILS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRWGS.
8. THE STRUCTURAL DRWGS SHALL BE USED IN CONJUNCTION W/ & COORDINATION W/ THE GRADING & DRAINAGE DWGS AND ALL OTHER CONSTRUCTION DOCS.
9. ALL WORK SHALL COMPLY W/ THE LOCAL & STATE CODES GOVERNING THIS PROJECT.
10. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE COORDINATION OF THE DIFFERENT PARTS OF THE PROJECT AND HOW THEY FIT TOGETHER.
11. THE CONTRACTOR SHALL COORDINATE AMONG PLAN SHEETS. IT IS HIS RESPONSIBILITY TO MAKE SURE ALL NECESSARY ITEMS SHOWN ON THE PLAN & THE DETAIL SHEETS ARE INSTALLED.
12. THE CONTRACTOR IS FULLY RESPONSIBLE FOR KEEPING EXIST. FACILITIES IN FULL SERVICE WHILE HE COMPLETES HIS WORK SHOULD WORK NEED TO BE DONE THAT WOULD REQUIRE THE SHUTDOWN OF SUCH FACILITIES. THEN IT SHALL BE DONE AFTER HRS., AT NIGHT OR ON WEEKEND AT NO ADDITIONAL COST THE OWNER.
13. THE CONTRACTOR IS RESPONSIBLE OF COORDINATING BETWEEN THE PLANS, THE DETAILS, & SPECS AND ANY REPORTS. FAILURE BY THE CONTRACTOR TO COORDINATE ALL OF THESE ITEMS MAY RESULT OF WORK THAT HAS TO BE REMOVED & REDONE AT THE CONTRACTOR SOLE EXPENSE.
14. THE CONTRACTOR AT OWN EXPENSE MUST REPAIR ANY DAMAGE DONE TO ANY COMPONENTS OF EXIST. PROPERTY.

MATERIALS NOTES:

1. PROVIDE 5" OF CRUSHER RUN GRAVEL AS SHOWN IN SECTION DETAILS. SUBGRADE/SOIL TO MEET THE REQUIREMENTS OF 95% MODIFIED PROCTOR.
2. THE SLAB DESIGN BASED ON SOIL CLASS D 2,000 PSI.
3. ALL CONC. SLABS TO BE 4,000 PSI AT 28 DAYS (CONC. STRENGTH REQUIREMENTS) A HIGH MIX MAY BE UTILIZED ONLY IF THE MIX DESIGN IS APPROVED BY THE PROJECT ENGINEER.
4. CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
5. FINE AGGREGATE SHALL CONFORM TO ASTM C-33.
6. COARSE AGGREGATE SHALL BE GRAVEL OF CRUSHED STONE CONFORMING TO ASTM C-33. COARSE AGGREGATE FOR SLAB SHALL NOT EXCEED 1.5" AT ITS MAX. WIDTH.
7. WATER SHALL BE CLEAN & FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALI, ORGANIC MATERIALS OR DELETERIOUS.
8. AIR ENTRAINMENT ADMIXTURE SHALL CONFORM TO ASTM C-260.
9. CALCIUM CHLORIDE MIXTURE, THIOCYANATE ADMIXTURES OR ANY ADMIXTURES CONTAINING MORE THAN 0.5% CHLORIDE IONS ARE NOT PERMITTED.
10. REINF STEEL & CONC. TO BE PLACED IN ACCORDANCE W/ ACI 318 LATEST EDITION.
11. THE ALLOWABLE CONC. SLUMP SHALL BE 3" PLUS OR MINUS 1/2" UNLESS SUPER PLASTICIZERS ARE USED. THE ENGINEER SHALL APPROVE SUPER-PLASTICIZERS USE.
12. AS REQUIRED BY THE OWNER, SLUMP TEST SHALL BE MADE IN ACCORDANCE W/ ACI 318 LATEST EDITION. NO CONC. SHALL BE PLACED WHEN THE ATMOSPHERIC TEMP. IS BELOW 40 DEG. W/O PERMISSION OF THE PROJECT ENGINEER.
13. AVOID HOT WEATHER CONC PLACEMENT. CONC PROVIDER TO PROVIDE HOT WEATHER CONC PLACEMENT PLAN FOR CONC PLACED IN TEMP IN EXCESS OF 90 DEG.
14. THE PROJECT ENGINEER OR THE OWNER MAY ACCEPT OR REJECT ANY WORK THAT DOESN'T MEET THE REQUIREMENTS OF THESE NOTES OR THE PROJECT DWGS.
15. AS REQUIRED BY THE OWNER, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TESTING THE SLUMP AIR CONTENT & CONC CYLINDERS (BY A THIRD PARTY).
16. AS REQUIRED BY THE OWNER, COMPRESSIVE STRENGTH OF THE CONC CYLINDERS SHALL BE TESTED AT 3 DAYS, 7 DAYS, AND 28 DAYS, APPROPRIATE NUMBER OF CYLINDERS, SHALL BE COLLECTED TO PERFORM THE TESTING CYLINDERS SHALL BE TESTED IN ACCORDANCE W/ ASTM C 39.
17. SLAB TO BE POURED IN 11'X11' PANELS AS SHOWN ON THE PROJECT DWGS W/ 1/4" SAWCUT CONTRACTION JOINTS AT 11' SPACING. SAWCUT JOINTS TO BE MADE AS SOON AS THE CONC CURED SUFFICIENTLY TO ALLOW THE WORK W/O DAMAGING THE CONC.
18. SOIL REPORT PERFORMED FOR THIS PROJECT BY AND THROUGH THE OWNER IS AN INTEGRAL PART OF THE CONTRACTOR SHALL READ & FOLLOW ITS RECOMMENDATIONS TO THE FULLEST EXTENT AS IF THEY ARE PART OF THESE PLANS.
19. ALL EARTHWORK SHALL COMPLY W/ THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER ON SITE.
20. SITE PREPARATION MUST BE PERFORMED IN ACCORDANCE W/ THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER ON SITE OR HIS AUTHORIZED REPRESENTATIVE. THIS INCLUDES REMOVAL & REPLACEMENT OF UNSUITABLE BEARING SOILS WHERE REQUIRED.



CALL 811-888-721-7877

THE SURVEYING FILE WAS GENERATED BY WHITE LAND SURVEYING,  
421 E BLACK ST, ROCK HILL SC 29730. (803) 327-5758.  
FILE NO.: 114039.TRV, DATE: 10-06-2023

MATERIALS NOTES (CONTINUED):

21. REINF. STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60.
22. CONC COVER ON REINF STEEL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE:
  - CONC CAST AGAINST PERMANENTLY EXPOSED TO EARTH ....3"
  - CONC CAST AGAINST FORMS AND EXPOSED TO EARTH.....2"
  - CONC EXPOSED TO WEATHER.....2"
23. PLACEMENT OF CONC INCLUDING SLUMP, MECHANICAL VIBRATION, AND CALCIUM CHLORIDE. CONTENT SHALL BE IN ACCORDANCE W/ ACI 301.
24. CONC SLUMP AT THE PLACEMENT POINT SHALL BE IN THE RANGE OF 3 TO 5 INCHES.
25. THE MIN 28 DAY COMPRESSIVE STRENGTH OF THE CONC SHALL BE 4000 PSI.
26. CHAMFER ALL CORNERS 1". USE CLASS BE CONC.
27. THE MATERIALS SPECIFIED SHALL BE NEW AND OF THE QUALITY CALLED OUT IN THE DRAWINGS, SPECS. & SOIL REPORT. THE CONTRACTOR SHALL PROVIDE THE EXACT MATERIALS AND PLACE THEM IN ACCORDANCE W/ THE PROJECT DOCS AND REGULATORY AGENCY REQUIREMENTS.

FILTER FABRIC NOTES:

1. THE FILTER CLOTH SHOULD NOT EXTEND INTO THE CHANNEL BEYOND THE RIPRAP LAYER; RATHER, IT SHOULD BE WRAPPED AROUND THE TOE MATERIAL AS ILLUSTRATED IN DETAIL DWGS. D1
2. ADEQUATE OVERLAPS (MIN. 12") MUST BE PROVIDED BETWEEN THE FABRIC SHEET.
3. A SUFFICIENT NUMBER OF FOLDS SHOULD BE INCLUDED DURING PLACEMENT TO ELIMINATE TENSION & STRETCHING UNDER SETTLEMENT.
4. SECURING PINS W/ WASHERS ARE REQUIRED AT 2- TO 5-FT INTERVALS ALONG THE MID POINT OVERLAPS.
5. PROPER STONE PLACEMENT ON FILTER REQUIRES BEGINNING AT THE TOE AND PROCEEDING UP THE SLOPE DROPPING STONE FROM A HEIGHT NOT > THAN 2 FT CAN RUPTURE FABRICS.

REINFORCEMENT NOTES:

1. INSTALL SLAB REINF. 6X6 W2.1/W2.1 WELDED WIRE MESH (WWM) PLACED IN THE CENTER OF THE SLAB TO EXTEND THRU ENTIRE SLAB. UTILIZE SUFFICIENT NUMBER OF CHAIRS TO MAINTAIN WWM POSITION.
2. INSTALL ADDITIONAL/UPGRADE REINF. AS REQUIRED BY LOCAL CODE. COORDINATE REBAR LOCATIONS TO AVOID ANCHORS PROVIDE VAPOR BARRIER BELOW THE SLAB. (10 MIL. W/ MIN. 12" OVERLAP AT VAPOR BARRIER JOINTS).

CONC. FINISHING NOTES:

1. THE FINISHED CONC. SURFACE SHALL BE SLOPED AWAY FROM THE WALL. THE SURFACE SLOPE SHALL BE AS SHOWN ON DESIGN PLANS.
2. THE FINISHED CONC. SURFACE SHALL BE SMOOTH TO PREVENT IRRAGULARITIES, ROUGHNESS, OR OTHER DEFECTS THAT WOULD AFFECT THE RANGE & BUILD. FLOOR SURFACE.
3. THE FINISHED CONC SURFACE SHALL HAVE A LIGHT BROOM FINISH TO PROVIDE THE BEST SURFACE FOR ADHESION.

ANCHOR NOTES:

1. FIELD VERIFY ALL ANCHOR LOCATION DIMENSIONS & PATTERNS PRIOR TO DRILLING. SEE MANUFACTURERS' INSTALLATION RECOMMENDATIONS.
2. SEE ANCHOR DETAILS FOR APPLICABLE CONC. EMBEDMENT DEPTH AND HOLE DIAM.
3. S.S. MUST BE USED WHERE SPECIFIED.
4. COMPONENTS SPECIFIED AS HOT-DIP GALVANIZED MAY BE SUBSTITUED WITH 304 SS COMPONENTS

ABBREVIATION:

EXIST. = EXISTING  
W/ = WITH  
CONC. = CONCRETE  
REINF. = REINFORCED  
INV. = INVERT  
EQUIP. = EQUIPMENT  
TEMP. = TEMPORARY  
SYS. = SYSTEM  
& = AND  
VEH. = VEHICULAR  
BUILD. = BUILDING  
TECH. = TECHNICAL  
SPECS. = SPECIFICATIONS  
DWGS. = DRAWINGS  
DIAM. = DIAMETER  
HOURS = HRS.  
W/IN = WITHIN  
MIN. = MINIMUM  
R/W = RIGHT-OF-WAY  
MAT. = MATERIALS  
HORZ. = HORIZONTAL  
NAT. = NATURAL  
SEC. = SECTION  
THICK. = THICKNESS  
DOCS. = DOCUMENTS  
CJ = CONTRACTION JOINT  
FT = FOOT/FEET  
S.S. = STAINLESS STEEL  
TEMP. = TEMPORARY  
ELEV. = ELEVATION  
DEG. = DEGREE  
SRVCS. = SERVICES

LEGEND:

- FLOW DIRECTION
- SLOPE OF LANE CONC. SURFACE
- EXIST. TREES TO BE REMOVED
- EXIST. TREES TO REMAIN
- EXIST. CHAIN LINK FENCE
- PROPOSED ELEVATIONS
- GROUND ELEV.
- TURNING POINT ELEV.
- BOTTOM OF EXIST. SLOPE ELEV.
- EXIST. GROUND ELEV.
- EXIST. GRAVEL ROADWAY ELEV.
- SANITARY SEWER
- EXIST. STORM DRAINAGE PIPE TO REMAIN
- EXIST. STORM DRAINAGE TO BE REMOVED
- EXISTING CONTOUR LINES
- PROPOSED CONTOUR LINES
- BENCH MARK
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- EXIST. CURB & GUTTER
- TOP OF CONC. SLAB
- TOP OF BASE COURSE
- TOP OF COMPACTED SUB-GRADE
- 5" AGGREGATE BASE
- CONCRETE
- PIPE BEDDING
- COMPACTED SUBGRADE
- 2'X3' YARD INLET
- EJ = EXPANSION JOINT
- PAVEMENT MARKING
- CJ = CONTROL JOINT
- TARGET CONC. BLOCK RETAINING WALL
- TARGET TIMBER RETAINING WALL
- COMMON BRICK

UTILITIES NOTES:

1. EXIST UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THIS PLAN; THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXIST UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONFLICTS BETWEEN EXISTING UTILITIES & PROPOSED EXCAVATION/IMPROVEMENTS SHALL BE REPORTED TO THE OWNER & ENGINEER OF RECORD IMMEDIATELY.
2. IF INTERRUPTION OF EXIST UTILITY SERVICES IS UNAVOIDABLE, CONTRACTOR SHALL PROVIDE MIN OF 48 HOUR TO OWNER OR REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY EXIST UTILITY SERVICE.
3. THE CONTRACTOR RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR IS TO MAINTAIN UTILITY SRVCS., INCLUDING WATER, SANITARY SEWER, STORM SEWER, NATURAL GAS, ELEC & TELEPHONE AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR IS TO KEEP ALL PARKING AREAS, ALLEYS, DRIVEWAYS AND STREETS ADJACENT TO THE CONSTRUCTION SITE CLEAN AT ALL TIMES DURING CONSTRUCTION.
5. CONTRACTOR SHALL ADJUST THE ELEV OF THE RINGS & COVERS OF ALL EXIST UTILITIES WHICH TO REMAIN & SHALL MATCH PROPOSED/FINAL GRADES. CONTRACTOR SHALL MATCH AT GRADE UTILITIES TO FINAL PROJECT GRADES UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ADJUST ANY UNDERGROUND UTILITIES WHICH BASED ON PROPOSED GRADES THAT WILL NOT HAVE MIN COVER ACCORDING TO AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL ADJUST THESE UTILITIES TO MIN REQUIRED COVER AND MAKE ANY ADJUSTMENTS NEEDED TO AVOID CONFLICTS W/ OTHER EXIST OR PROPOSED INFRASTRUCTURE.

SIGNS NOTES:

1. ALL SIGNS W/IN THE LIMITS OF CONSTRUCTION MAY BE REMOVED AS NEEDED FOR THE CONSTRUCTION & REPLACED AS SOON AS SOON POSSIBLE. TEMP FREESTANDING SIGNS MAY BE NEEDED/REQUIRED DURING CONSTRUCTION.
2. SIGN OF THE CONSTRUCTION AREA SHALL COMPLY W/ THE CURRENT "FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL SIGNS INCLUDING REGULATORY & WARNING SIGNS WHICH ARE OWNED & MAINTAINED BY SCDOT ARE TO REMAIN THROUGHOUT THE DEMOLITION & CONSTRUCTION PHASES. ALL SIGNS WHICH NEED TO BE REMOVED ARE TO BE RELOCATED IMMEDIATELY.
3. CONTRACTOR TO SET UP TEMP SEDIMENT CONTROL MEASURES BEFORE WORK COMMENCES. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY (MONDAY THRU FRIDAY) FOR EXCESSIVE SILT & FAILURE. CONTRACTOR SHALL REMOVE EXCESSIVE SILT FROM THE DEVICES OR REPAIR MEASURES IMMEDIATELY BEFORE CONSTRUCTION COMMENCES ON THAT DAY. MAINTENANCE SHALL CONTINUE THRU PROJECT COMPLETION.
4. CONTRACTOR IS TO DRESS, SEED & MULCH ALL AREAS DISTURBED DURING CONSTRUCTION. FINAL DERSSING, SEEDING & MULCHING SHALL BE IN ACCORDANCE TO YORK ELECTRIC COOPERATIVE, INC./SCDOT SPECS.
5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS & APPROVALS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION. THESE PERMITS & APPROVALS MAY INCLUDE BUT ARE NOT LIMITED TO GRADING, DEMOLITION, ZONING, BUILDING, DRIVEWAY, DETENTION, SUBDIVISION, SPECIAL USE. SEWER & WATER.
6. TREE PROTECTION / SILT FENCING SHALL REMAIN THROUGHOUT THE CONSTRUCTION PROCESS.

DEMOLITION NOTES:

1. PURPOSE: THE PURPOSE OF THE DEMOLITION PLAN IS FOR DEMOLITION ONLY.
2. PERMITS: ALL NECESSARY PERMITS FOR DEMOLITION SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING WORK. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLOTION WORK.
3. OFFSITE WORK: CONTRACTOR SHALL NOT PERFORM WORK OFFSITE. IF EXTENUATING CIRCUMSTANCES REQUIRE WORK TO BE PERFORMED OFFSITE CONTRACTOR SHALL SUBMIT WRITTEN NOTICE TO OWNERS REPRESENTATIVE ASAP POSSIBLE. CONTRACTOR SHALL NOT PROCEED W/ WORK OFFSITE UNTIL WRITTEN APPROVAL IS OBTAINED FROM ALL PROPERTY OWNERS. ANY OFF SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITIONAL EQUAL TO OR BETTER THAN THE EXIST CONDITION.
4. STORM DRAINAGE: PIPE & ANY STORM DRAINAGE STRUCTURES SHALL NOT BE DISTURBED BY THE CONTRACTOR UNTIL HE HAS BEEN FURNISHED W/ A NOTICE OF POSSESSION & APPROVAL TO PROCEED BY THE OWNER. PIPE AND/OR DRAINAGE STRUCTURES SHALL BE REMOVED TO A MIN. OF 1 FOOT BELOW GRADE OF THE PIPE TRENCH AND 6 INCHES" OF THE TRENCH BANKS OR TO A DEPTH REQUIRED TO ACCOMMODATE PROPOSED BASE CONDITION A TEMP DRAINAGE SYS. CONSISTS OF DITCHES & SWALES SHALL BE CONSTRUCTED TO KEEP THE SITE DRAINED & DRY DURING CONSTRUCTION.
5. DEMOLITION MATERIALS: NOT BE USED FOR FILL MATERIAL. UNSUITABLE FILL MATERIAL SHALL BE LEGALLY DISPOSED OF OFF SITE. ALL DEBRIS SHALL BE HAULED OFF SITE TO DISPOSAL AREA APPROVED BY SOUTH CAROLINA FOR THE HANDLING OF DEBRIS.
6. ALL MATERIALS: EXCEPT THAT BELONGING TO A PUBLIC OR PRIVATE UTILITY CO. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY ALL UTILITY PROVIDERS W/ LINES, AND APPURTENANCES TO BE AFFECTED BY CONSTRUCTION WHEN WATER, GAS, PIPES, ELEC LINES, AND APPURTENANCES ARE READY FOR REMOVAL OR ADJUSTMENT AND SHALL BE RESPONSIBLE FOR DISCONNECTING ALL UTILITIES IN COMPLIANCE W/ YORK COUNTY AND UTILITY PROVIDER REQUIREMENTS. SUITABLE SOIL SHALL BE EXAMINED & APPROVED PRIOR TO USE BY THE CITY AND/OR ITS ENGINEER.
7. ALL STRUCTURES: NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL PHOTOGRAPH & DOCUMENT CONDITION OF ALL STRUCTURES TO REMAIN, AND SHALL STORE PHOTOGRAPHS AND DOCUMENTATION IN JOB-SITE TRAILER. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUALS TO OR BETTER THAN THE EXIST CONDITION AT NO ADDITIONAL COST. THE OWNER & ENGINEER SHALL BE IMMEDIATELY NOTIFY OF DAMAGE TO ANY EXIST STRUCTURE.
8. CLEARING & GRUBBING: REMOVE ALL EXIST TREES AND CLEAR & GRUB AS SHOWN ON THE DEMOLITION PLAN.
9. CUT & FILL: AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED & APPROVED BY THE OWNER, CUT & OPERATIONS SHALL BE PERFORMED AS DESCRIBED IN THE GEOTECHNICAL REPORT. ALL CUT SLOPES ARE TO BE ROUNDED TO BLEND IN W/ NATURAL GROUND.
10. CONSTRUCTION ENTRANCE & SILT FENCE: PER THE APPROVED DEMOLITION/EROSION CONTROL PLANS SHALL BE IN PLACE PRIOR TO DEMOLITION OPERATIONS. SEE PLANS FOR MORE INFO. A SILT FENCE SHALL BE INSTALLED PRIOR TO DEMOLITION & DURING ALL CONSTRUCTION ACTIVITIES UNTIL THE FACILITY IS OPEN FOR SERVICE.
11. SAFETY: NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION & SAFETY OF THE PUBLIC SHALL BE PROVIDED & MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

SCGS MONUMENT "YORK 2"

SC GRID COORDINATES (PUBLISHED)  
(NAD 83 / 2011)  
N: \_\_\_\_\_  
E: \_\_\_\_\_  
ELEV. = \_\_\_\_\_  
NAVD 88



Address: 2020 Independence Commerce Dr.Suite E & F  
Matthews, NC 28105  
U.S.A.  
Cell: (843) 467-8478  
Email: psadek@aestheticconceptsus.com

Project Name:  
City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

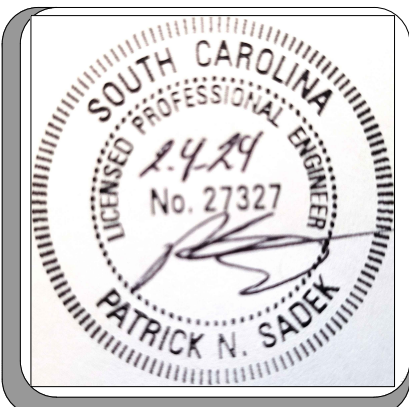
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GENERAL NOTES

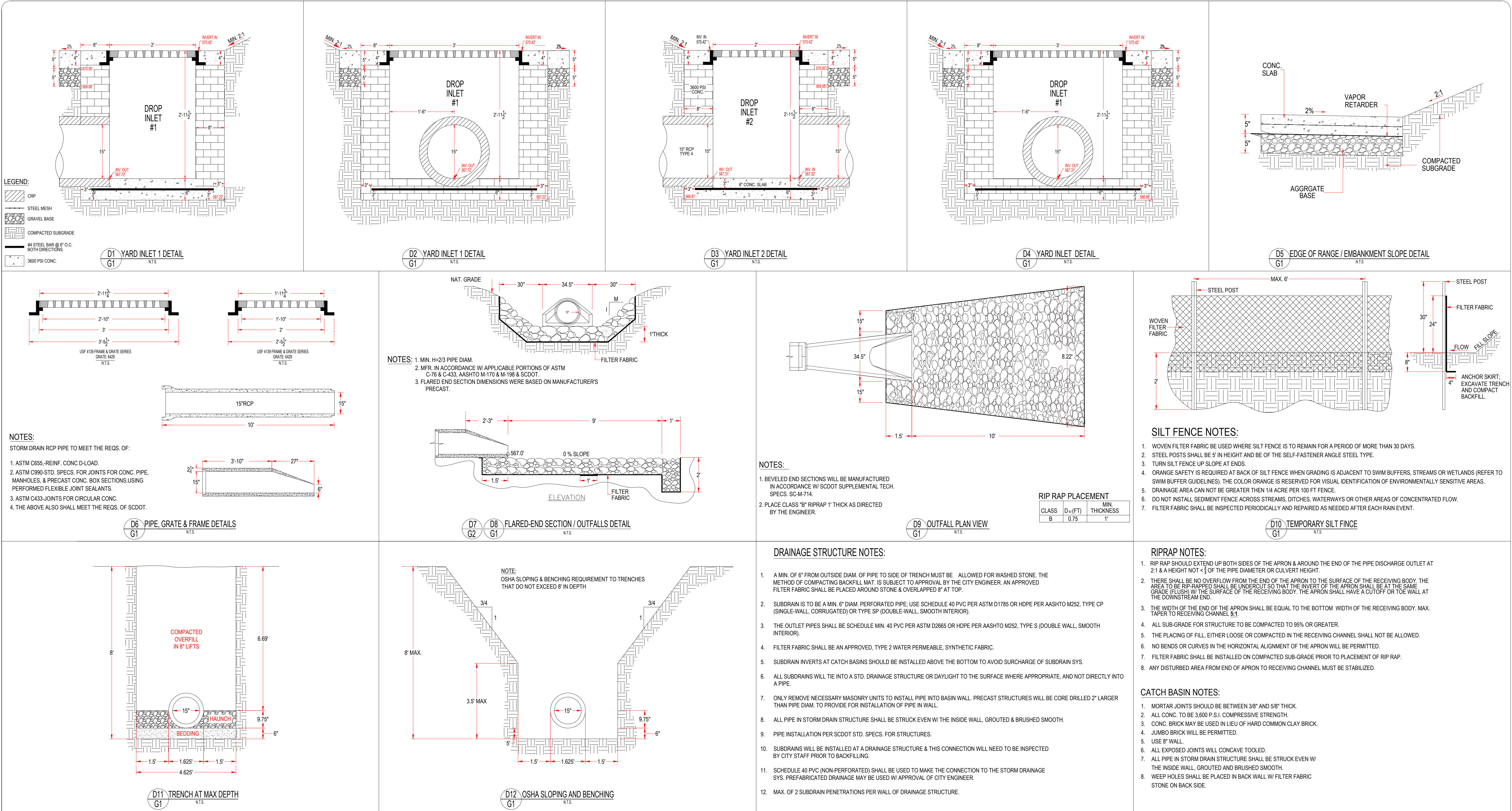
Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 10/15/23 Scale: 1"=20'  
Project No.: COY-GR-7940

Sheet No.:

GN









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Project Name:

City of York, SC Gun Range

2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title:

DETAILS

Drawn By: Patrick Sadek, P.E.

Designed By: Patrick Sadek, P.E.

Date: 02/02/2024 Scale: N.T.S

Project No.: COY-GR-7930

Sheet No.:

DT



0' 10' 20' 40' 60' 80'

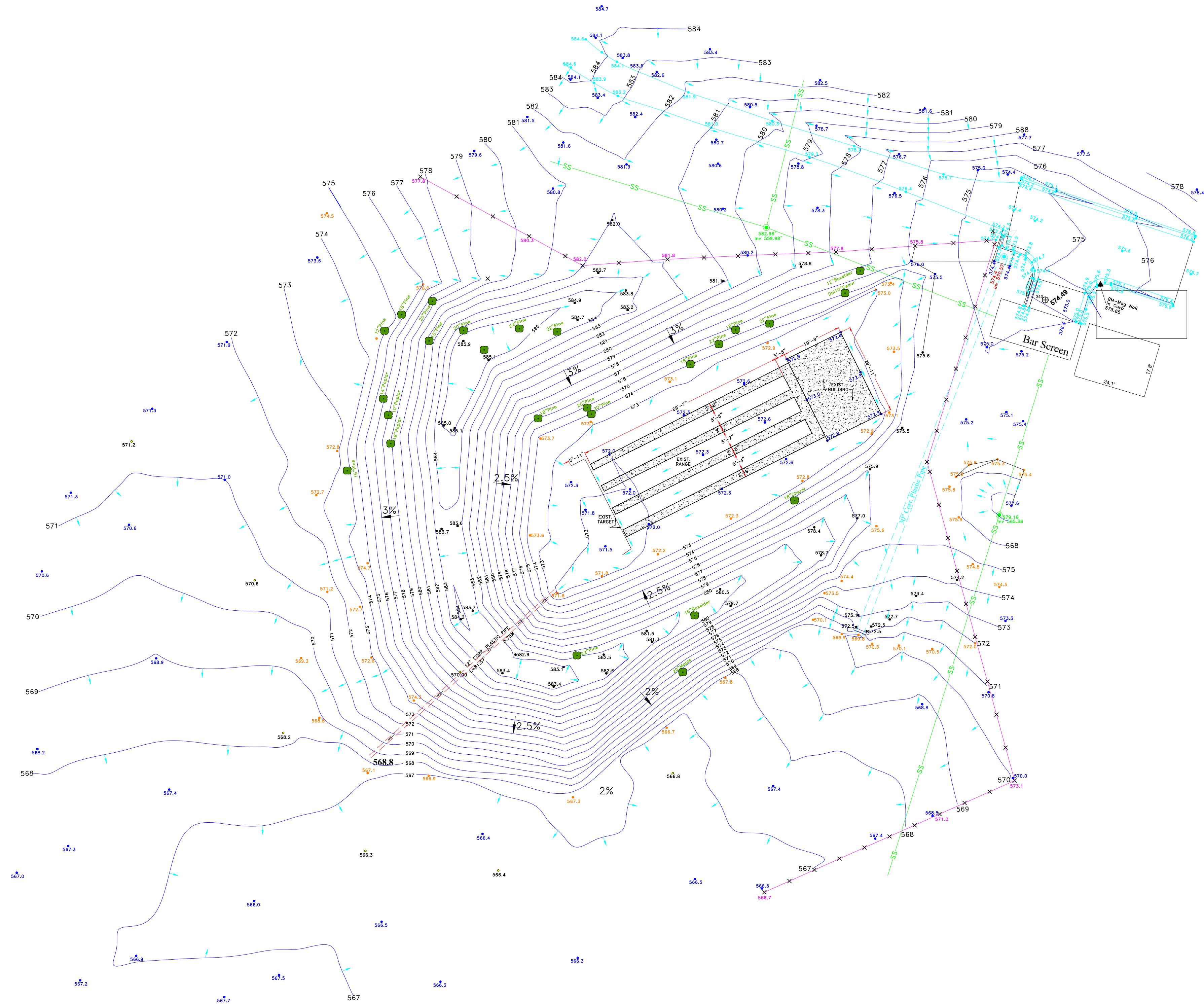
SCALE: 1"=20'





LEGEND:

- FLOW DIRECTION
- 2% SLOPE OF LANE CONC. SURFACE
- EXIST. TREES TO BE REMOVED
- EXIST. TREES TO REMAIN
- EXIST. CHAIN LINK FENCE
- XXX.X PROPOSED ELEVATIONS
- XXX.0 GROUND ELEV.
- XXX.0 TURNING POINT ELEV.
- XXX.0 BOTTOM OF EXIST. SLOPE ELEV.
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- COMMON BRICK



EXISTING RANGE PLAN  
SCALE: 1" = 20'



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Project Name:  
City of York, SC Gun Range  
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Rock Hill, SC 29730

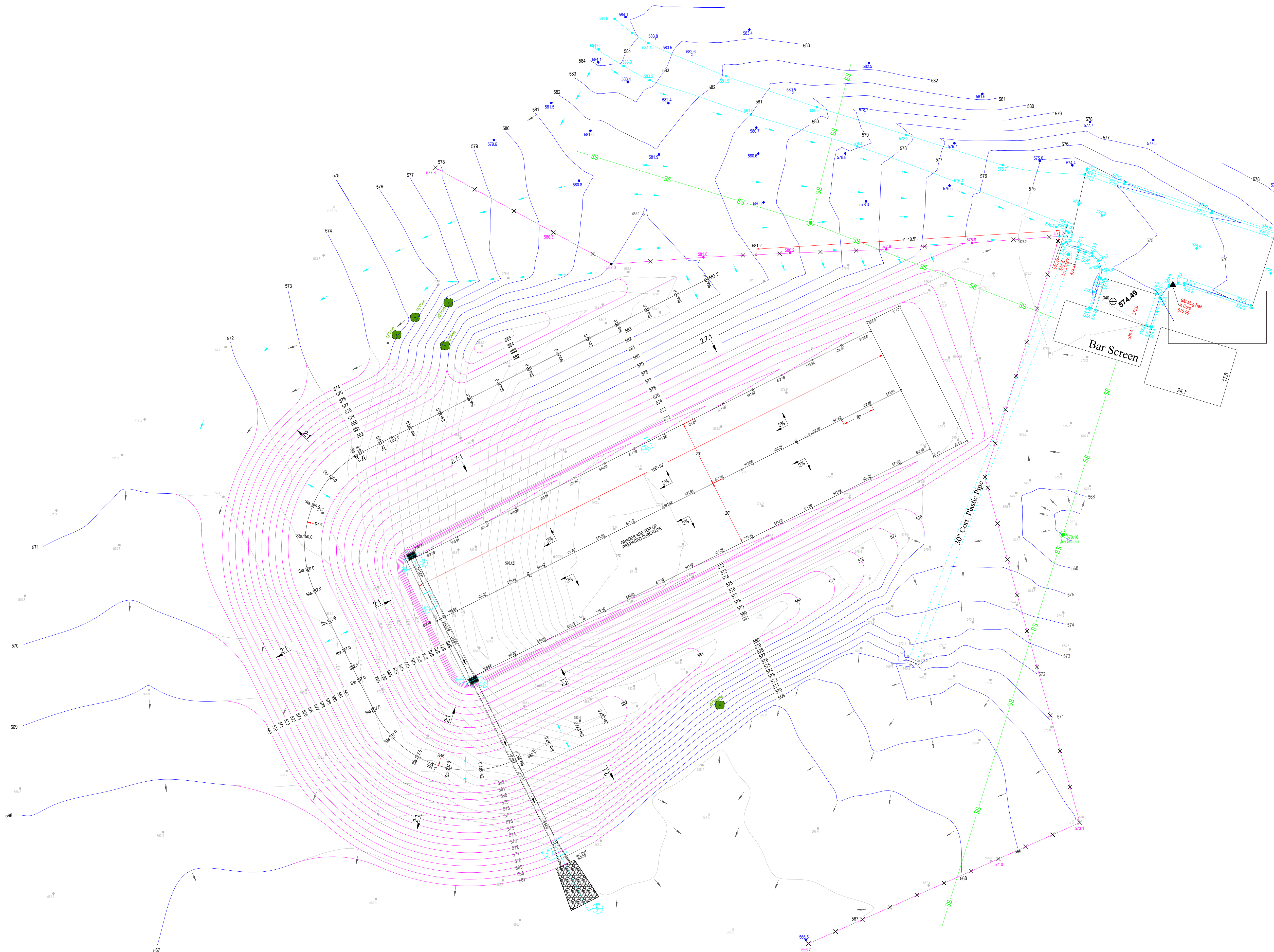
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EXISTING CONDITION PLAN

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/24 Scale: 1"=20'  
Project No.: COY-GR-7940

Sheet No.:  
EC







LEGEND:

- FLOW DIRECTION
- 2% SLOPE OF LANE CONC. SURFACE
- EXIST. TREES TO BE REMOVED
- EXIST. TREES TO REMAIN
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Project Name: City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title: SITE PLAN GRADING & DRAINAGE

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/2024 Scale: N.T.S.  
Project No.: COY-GR-7930

Sheet No.: GD





DEMOLITION NOTES

1. THE CONTRACTOR SHALL REVIEW ALL DRWGS INCLUDING ALL NOTES TO BECOME FAMILIAR W/ SEQUENCE AND DETAILS.
2. DURING INSTALLATION SEQUENCE, REFER TO AND COMPLY W/ APPLICABLE NOTES.
3. ALL CUT SLOPES ARE TO BE ROUNDED TO BLEND IN W/ NATURAL GROUND.
4. IF NEEDED REMOVE EXIST GATE TO ALLOW CONSTRUCTION EQUIP. TO ACCESS THE SITE.
5. REMOVE A PORTION OF THE EXIST FENCE AS SHOWN ON THE GRADING PLAN.
6. REMOVE EXIST. 12" STORM DRAINAGE PLASTIC PIPE.
7. REMOVE ALL EXIST CONC FIRING LANES CONC SLAB INCLUDING BASE MATERIALS.
8. CLEAR & GRUB ALL BERMS AREAS (SHOWN IN MAGENTA) AS SHOWN ON GRADING PLAN.
9. REMOVE ALL EXIST TREES SHOWN IN RED TREE SYMBOLS.
10. GRADE THE PROPOSED SITE-ALL BERMS, RANGE AREA, VEH. DRIVE, PROPOSED BUILDING. AND GRAVEL DRIVEWAY AS SHOWN ON THE GRADING PLAN.
11. REMOVE AND DISCARD EXIST. TARGET SYSTEM, INCLUDING TARGET PROTECTION WALL.
12. ALL UNSUITABLE SOIL & CONSTRUCTION DEBRIS SHALL BE DISPOSED & HAULED TO THE COUNTY LANDFILL.
13. ALL BUILDING DEBRIS SHALL BE DISPOSED AND HAULED TO THE COUNTY LANDFILL.
14. SUITABLE BERM SOIL TO REMAIN AND SHALL BE EXAMINED & APPROVED PRIOR TO CITY AND/OR ITS ENGINEER.
15. A TEMP. DRAINAGE SYS. CONSISTS OF DITCHES & SWALES SHALL BE CONSTRUCTED TO KEEP THE SITE DRAINED & DRY DURING AND AFTER CONSTRUCTION.
16. A SILT FENCE SHALL BE INSTALLED PRIOR TO DEMOLITION AND DURING ALL CONSTRUCTION ACTIVITIES UNTIL THE FACILITY IS OPEN FOR SERVICE.

LEGEND:

- FLOW DIRECTION
- 2% SLOPE OF LANE CONC. SURFACE
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- EXIST. TREES TO REMAIN
- EXIST. CHAIN LINK FENCE
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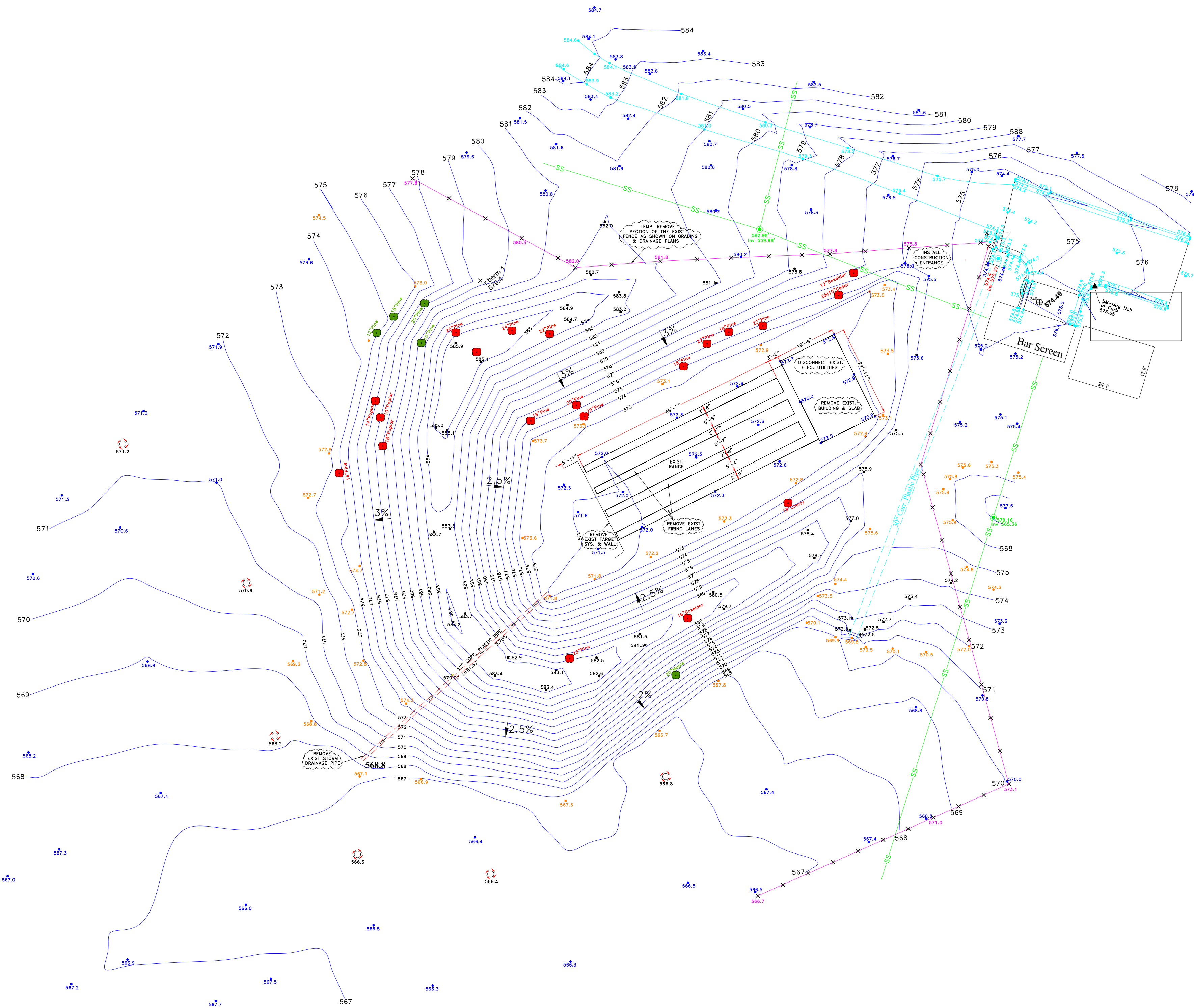
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Cell: (843) 467-8478  
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Project Name:  
City of York, SC Gun Range  
2498 Ecology Rd.  
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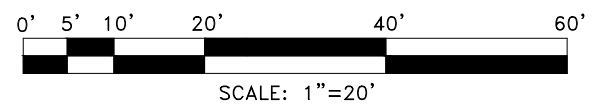
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DEMOLITION PLAN

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/24 Scale: 1"=20'  
Job No.: COY-GR-7930

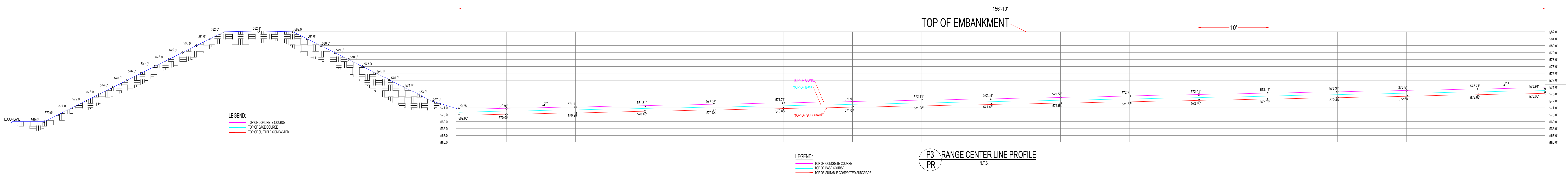
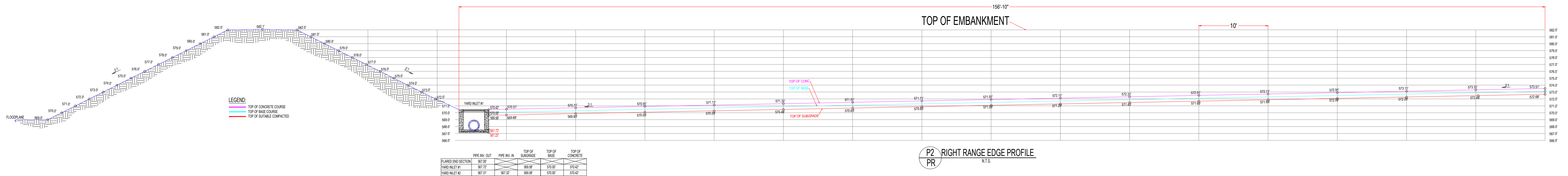
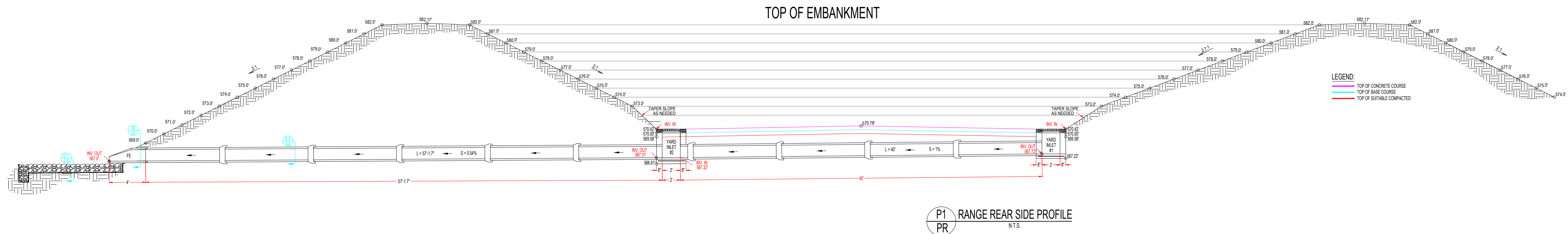
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EXISTING RANGE PLAN  
SCALE: 1" = 20'







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Project Name: City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title:

PROFILES





Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/2024 Scale: N.T.S.  
Project No.: COY-GR-7930

Sheet No.:  
PF





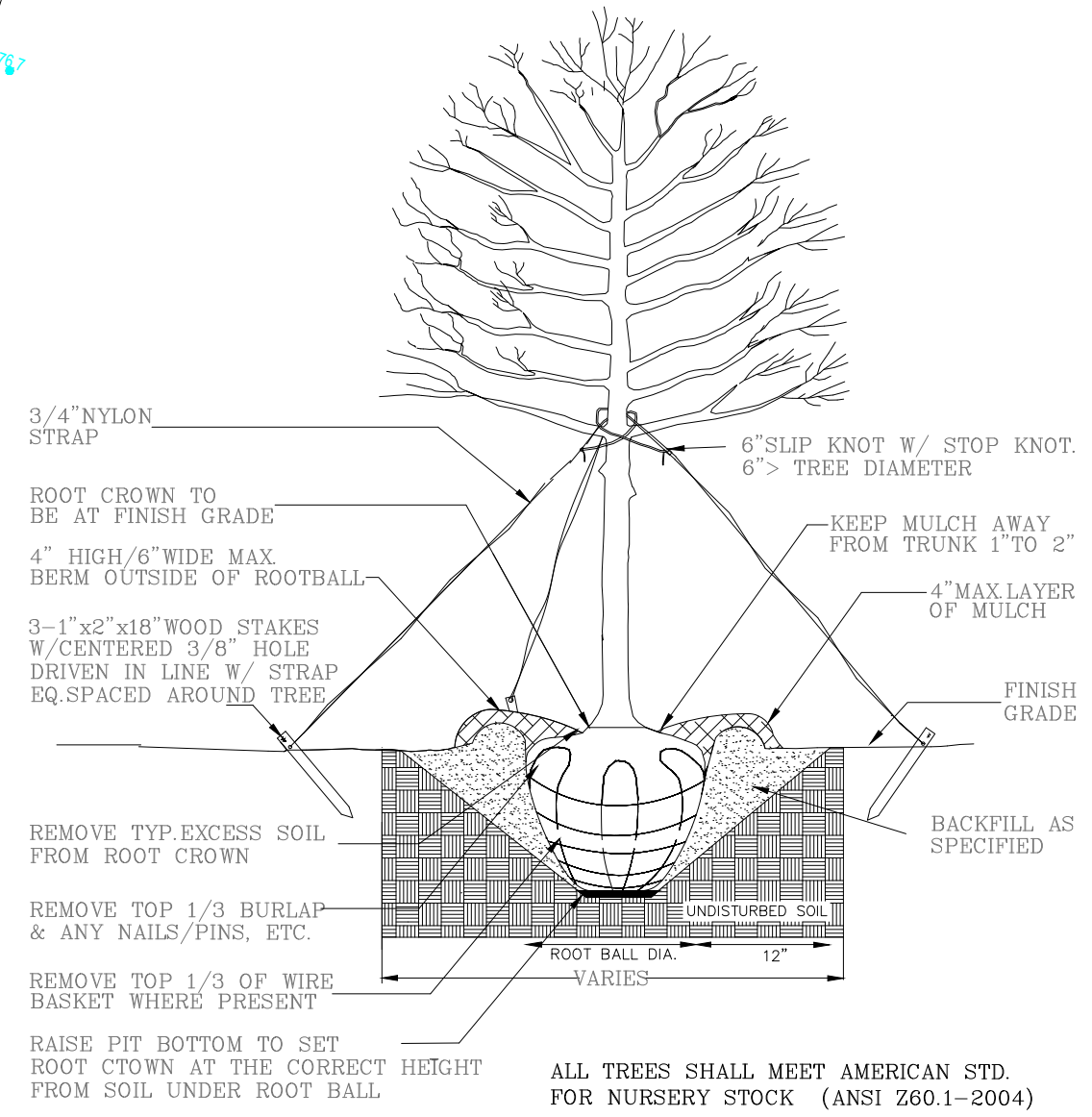
LANDSCAPE SCHEDULE

SYMBOL	SPECIES	COMMON TREE NAME	BOTANICAL TREE NAME	HEIGHT	WIDTH
	SHRUB	LEAD PLANT	AMPHORA CANDESCENT	2'-3'	2'-3'
	SHRUB	BLUE STAR FLAKY JUNIPER	JUNIPERUS SQUAMATA	1.5'	3'
	UNDERSTORY	MUSKOGEE CRAPE MYRTLE	LAGERSTROEMIA INDICA	20'-25'	20'-25'
	EVERGREEN	CENTENNIAL GIRL HOLLY	ILEX AQUIFOLIUM	18'-40'	40'-50'

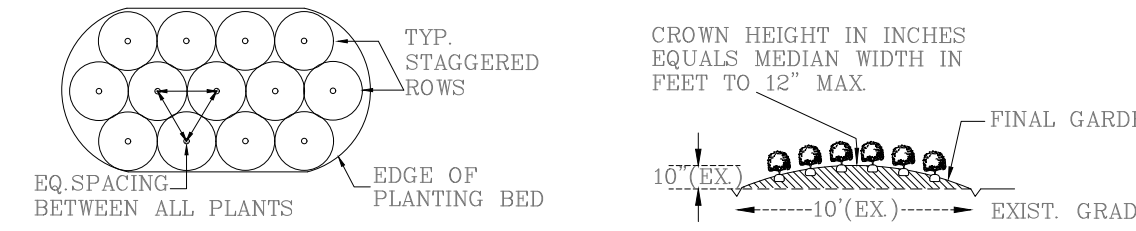
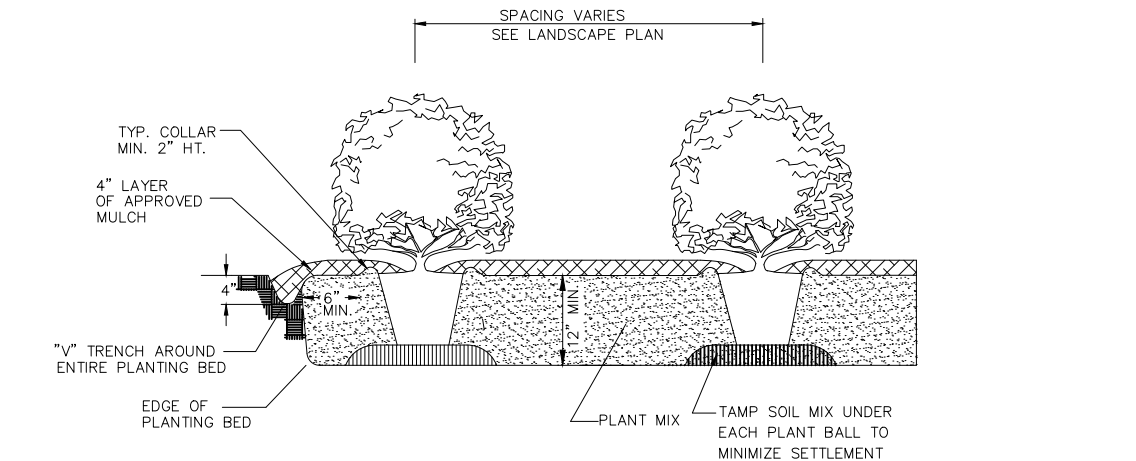
TEMPORARY SILT FENCE

TEMPORARY SEEDING SCHEDULE

SEEDING MIXTURE: RYE (GRAIN) - 120 LB/ACRE (OMIT) ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE)  
SEEDING DATE: JANUARY 1 - MAY 1  
MULCH: APPLY 4,000 LB/ACRE STRAW ANCHOR STRAW BY TRACKING W/ ASPHALT. NETTING, OR A MULCH ANCHORING TOOL. A DISK W/ BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.  
MAINTENANCE: RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.



- NOTES:
1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
  2. SOAK ROOT BALL & PLANT PIT IMMEDIATELY AFTER INSTALL.
  3. STAKING IS REQ. FOR ALL TREES IN R.O.W. OR UPON REQUEST OF ARBORIST.
  4. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
  5. RESEED UN-MULCHED, DISTURBED AREAS.



- NOTES:
1. INSTALL CONTAINERIZED PLANTS AT FINISHED GRADE
  2. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MAT.
  3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND PLANT BALL.
  4. SOAK EACH PLANT BALL & PIT IMMEDIATELY AFTER INSTALL.
  5. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYS. IS PRESENT.



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Project Name: City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title: LANDSCAPING PLAN

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/2024 Scale: N.T.S.  
Project No.: COY-GR-7930

Sheet No.: LP





**NOTE:** CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR REVIEW AND APPROVAL.



**NOTE:**

**NOTE:**

1. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR REVIEW AND APPROVAL.
2. SEALANT & BAKER ROD APPLICATION PER MANUFACTURER'S RECOMMENDATIONS



**NOTE:** CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR REVIEW AND APPROVAL.

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1. BUILDING CONC. NOTES:

- a. Min. Conc. compressive strength shall be 4,000 psi.
- b. Conc. shall be air entrained - Total air content = 6% of total volume of conc.
- c. Aggregate base shall be crushed stone with angular shape.
- d. Forms shall be made of wood, steel, aluminum, plastic, or other approved materials.
- e. Backfill shall not be placed against the wall until the wall has sufficient strength.

Reinforcement: Footing and stem wall reinforcement shall comply w/ the requirement of ASTM A706, for low alloy steel w/ a min. yield strength of 60,000 psi (Grade 60)

- a. Min. 3" conc. cover for reinforcing cast against the earth., or  
a. Min. 1 1/2 conc. cover for cast in removable forms cast against earth.

Load Bearing Values/Class of Materials: Sand, silty sand clayey sand silty gravel, and clayey gravel.  
Load Bearing Pressure = 2,000lb/sq. ft.

2. RANGE SLAB NOTES:

Contraction Joints: Conc. can be cut w/ saws after it has hardened enough to support the saws and avoid raveling. Depth of the joint should be at least:

- 1/4 of the slab depth = 1 1/4" when using a conventional saw, or
- 1" when using early-entry saws on slabs 9 in. (230 mm) or less in thickness.

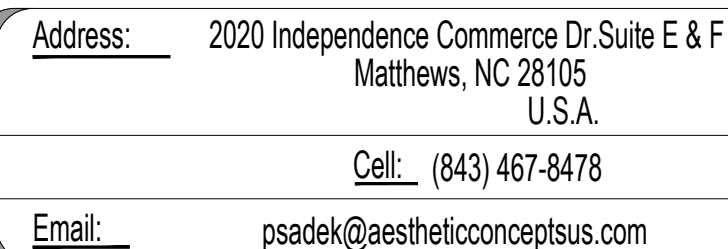
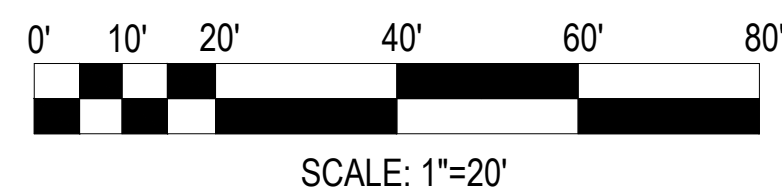
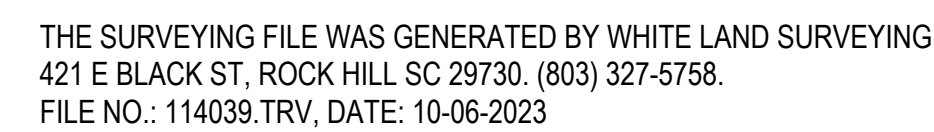
Slab Strength: 4,000 psi

Construction Joints: shall be keyed type.

Subgrade Preparation:

- a. Sub-grade shall be uniform, well-prepared, at the correct elevations to obtain quality slabs, consistent support, and required thickness.
- b. Earthwork operations should be coordinated w/ the installation of utilities (e.g. elec. wiring, storm drainage, and other utilities).
- c. The sub-grade should be filled w/ suitable material to produce the required sub-grade elev. all non compatible unsuitable shall be removed and replaced w/ suitable soil. sub-grade materials shall not be blended w/ unsuitable soil. Filled sections be thoroughly compacted in layers to the specified density in 6" lifts. The sub-grade should not be un-compacted, disturbed, muddy, or frozen when base and slab start.
- d. the final grading should be checked w/ a template or other means to ensure that the surface is at the specified elevations.
- e. suggested tolerances for fine grading are no more than  $\frac{1}{8}"$  above or  $\frac{1}{8}"$  below the design grade.
- f. A lay out to permit construction equipment to provide easy access for aggregate and conc. delivery trucks, and to ensure good drainage of the site should be followed to expedite construction operations.

Sealant: Baker Rod and sealant shall be installed per Manufacturer's recommendations.



Project Name: City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title:

## DETAILS

<u>Drawn By:</u>	Patrick Sadek, P.E.
<u>Designed By:</u>	Patrick Sadek, P.E.
<u>Date:</u> 02/02/2024	<u>Scale:</u> N.T.S
<u>Project No.:</u>	COY-GR-7930

Sheet No.: \_\_\_\_\_

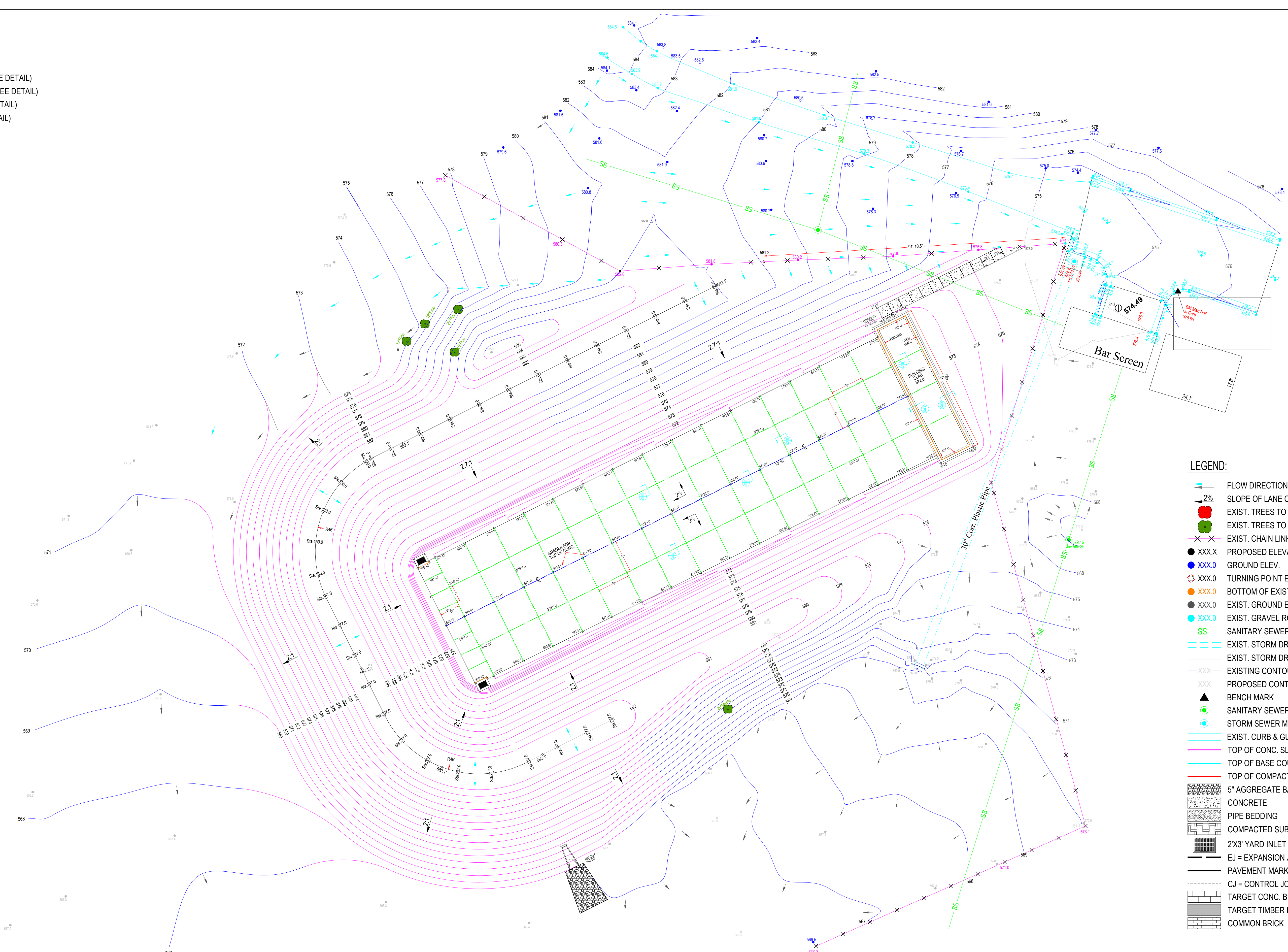
RBD





CONCRETE LEGEND:

- CJ = 3/16" CONTRACTION JOINT (SEE DETAIL)
- CS = 3/16" CONSTRUCTION JOINT (SEE DETAIL)
- EJ = 1/2" EXPANSION JOINT (SEE DETAIL)
- IJ = 1/2" ISOLATION JOINT (SEE DETAIL)
- CONCRETE
- CONC. FOOTING
- STEM WALL



LEGEND:

- FLOW DIRECTION
- 2% SLOPE OF LANE CONC. SURFACE
- EXIST. TREES TO BE REMOVED
- EXIST. TREES TO REMAIN
- EXIST. CHAIN LINK FENCE
- XXX.X PROPOSED ELEVATIONS
- XXX.0 GROUND ELEV.
- XXX.0 TURNING POINT ELEV.
- XXX.0 BOTTOM OF EXIST. SLOPE ELEV.
- XXX.0 EXIST. GROUND ELEV.
- XXX.0 EXIST. GRAVEL ROADWAY ELEV.
- SS SANITARY SEWER
- EXIST. STORM DRAINAGE PIPE TO REMAIN
- EXIST. STORM DRAINAGE TO BE REMOVED
- EXISTING CONTOUR LINES
- PROPOSED CONTOUR LINES
- BENCH MARK
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- EXIST. CURB & GUTTER
- TOP OF CONC. SLAB
- TOP OF BASE COURSE
- TOP OF COMPACTED SUB-GRADE
- 5" AGGREGATE BASE
- CONCRETE
- PIPE BEDDING
- COMPACTED SUBGRADE
- 2'X3' YARD INLET
- EJ = EXPANSION JOINT
- PAVEMENT MARKING
- CJ = CONTROL JOINT
- TARGET CONC. BLOCK RETAINING WALL
- TARGET TIMBER RETAINING WALL
- COMMON BRICK



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Project Name: City of York, SC Gun Range  
2498 Ecology Rd.  
Rock Hill, SC 29730

Sheet Title: SITE PLAN GRADING & DRAINAGE

Drawn By: Patrick Sadek, P.E.  
Designed By: Patrick Sadek, P.E.  
Date: 02/02/2024 Scale: N.T.S  
Project No.: COY-GR-7930

Sheet No.: CS

