

TOWN OF WAYNESVILLE, NC RESERVOIR

CONCRETE SPILLWAY REPAIRS



NC FIRM LICENSE #P-1305



1. GENERAL

- 1.02. INFORMATION IN THE STRUCTURAL GENERAL NOTES IS A SELECTED SUMMARY OF THE REQUIREMENTS. REFER TO PLANS AND DETAILS FOR AMPLIFICATION OF REQUIREMENTS.
- 1.03. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.04. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE. THE STRUCTURAL DRAWINGS SHALL NOT BE CONSIDERED SEPARATELY FOR PURPOSES OF BIDDING THE STRUCTURAL WORK. DUE CONSIDERATION SHALL BE GIVEN TO OTHER STRUCTURAL WORK OR WORK RELATED TO THE STRUCTURE, INCLUDING NECESSARY COORDINATION DESCRIBED OR IMPLIED BY OTHER DISCIPLINES OR OTHER PORTIONS OF THE SCOPES OF WORK.
- 1.05. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
- 1.06. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL RESULTING REVISIONS TO THE STRUCTURAL SYSTEM OR OTHER TRADES AS A RESULT OF ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES OR SUBSTITUTIONS.
- 1.07. ALL DIMENSIONS SHOWN ON PLAN MUST BE FIELD VERIFIED TYPICAL. DIMENSIONS SHOWN ARE PRIMARILY FOR ESTIMATING / PRICING PURPOSES.
- 1.09. GENERAL CONTRACTOR IS TO VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS AS SHOWN ON THE DRAWINGS AND MATERIAL MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS. WHEN DISCREPANCIES OR QUESTIONS ARISE, THE ENGINEER SHALL BE NOTIFIED.

2. MATERIALS FOR REPAIRS

- 2.01. CONCRETE (f_c @ 28 DAYS)
ALL CONCRETE U.N. 4,000 PSI
AIR ENTRAINED (5-6 PERCENT TYP.)
- 2.02. REINFORCING STEEL (F_y)
REBAR (ASTM A615) 60,000 PSI
- 2.03. SIKATOP 123 PLUS POLYMER-MODIFIED REPAIR MORTAR OR APPROVED EQUAL
- 2.04. SIKATOP 111 PLUS POLYMER-MODIFIED REPAIR MORTAR OR APPROVED EQUAL (FOR FORMED SURFACES).
- 2.05. SIKA ARMATEC 110 EPOCEM BONDING AGENT
- 2.06. SIKAQUICK 1000 PATCHING MATERIAL OR APPROVED EQUAL
- 2.07. SIKAFLEX 1c SL POLYURETHANE SEALANT OR APPROVED EQUAL
- 2.08. SIKADUR 51 NS SEALANT OR APPROVED EQUAL
- 2.09. SIKADUR CRACK WELD EPOXY OR APPROVED EQUAL
- 2.10. SIKAFLOOR - PRONTO 17 OR APPROVED EQUAL

3. SUBMITTAL

- 3.01. SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO BEGINNING ANY CONSTRUCTION.
- 3.02. DRYE-MCGLAMERY ENGINEERING SHALL HAVE 15 DAYS AFTER THE DATE OF RECEIPT OF THE SUBMITTAL FOR REVIEWING AND COMMENTING ON ANY SUBMITTALS.
- 3.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL REVIEW SUBMITTALS PRIOR TO SUBMITTING THEM TO DRYE-MCGLAMERY ENGINEERING. HIGHLIGHT, CLOUD, OR OTHERWISE INDICATE ITEMS THAT DEVIATE FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL.
- 3.04. PROVIDE PRODUCTS AND SYSTEMS COMPLYING WITH SPECIFIC PERFORMANCE AND DESIGN CRITERIA AS INDICATED ON THE CONTRACT DOCUMENTS. ALL SUBSTITUTES TO ANY PRODUCTS OR MATERIALS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED AND APPROVED PRIOR TO STARTING CONSTRUCTION OR USING THE PRODUCT.
- 3.05. CONSTRUCTION ADMINISTRATION SERVICES ARE INCLUDED IN THE SCOPE OF SERVICES PROVIDED BY DRYE-MCGLAMERY ENGINEERING. THE FOLLOWING SUBMITTALS ARE RECOMMENDED FOR THIS PROJECT:
 - A. PRODUCT DATA:
SUBMIT PRODUCT DATA FOR ALL MATERIALS AND PRODUCTS CALLED OUT ON CONTRACT DOCUMENTS TO BE USED DURING CONSTRUCTION.

STRUCTURAL ABBREVIATIONS

ARCH.	ARCHITECT	GA.	GAUGE
B/	BOTTOM OF	GALV.	GALVANIZED
BRG.	BEARING	HORIZ.	HORIZONTAL
BOTT.	BOTTOM	H.S.	HEADED STUD
C/C	CENTER-TO-CENTER	IN.	INCHES
C.J.	CONTROL JOINT	INFO.	INFORMATION
CLR.	CLEAR	INT.	INTERIOR
COL.	COLUMN	K	KIPS
CONC.	CONCRETE	KSI	KIPS PER SQUARE INCH
CONN.	CONNECTION	LLH	LONG LEG HORIZONTAL
CONT.	CONTINUOUS	LLV	LONG LEG VERTICAL
COORD.	COORDINATE	L/W	LONG WAYS
CMU	CONCRETE MASONRY UNIT	MANUF.	MANUFACTURER
D.E.	DECK EDGE	MAX.	MAXIMUM
DIM.	DIMENSION	MECH.	MECHANICAL
DIA.	DIAMETER	MIN.	MINIMUM
DIST.	DISTANCE	O.H.	OVERHANG
DWGS.	DRAWINGS	PL.	PLATE
EL.	ELEVATION	PSF	POUNDS PER SQUARE FOOT
E.F.	EACH FACE	PSI	POUNDS PER SQUARE INCH
EMBED.	EMBEDMENT	QTY	QUANTITY
ENG.	ENGINEER	REF.	REFERENCE
E.O.R.	ENGINEER OF RECORD	REINF.	REINFORCED
EQ.	EQUAL	S.E.	SLAB EDGE
E.S.	EACH SIDE	S.F.	STEPPED FOOTING
E.W.	EACH WAY	STL.	STEEL
EXP.	EXPANSION	S.W.	SHORT WAYS
EXT.	EXTERIOR	T/	TOP OF
FABR.	FABRICATOR	TYP.	TYPICAL
F.F.	FINISHED FLOOR	U.N.O.	UNLESS NOTED OTHERWISE
FFE	FINISHED FLOOR ELEVATION	VCJ	VERTICAL CONTROL JOINT
FTG.	FOOTING	VMCJ	VERTICAL MASONRY CONTROL JOINT
		W/	WITH
		WWF	WELDED WIRE FABRIC



SPILLWAY REPAIR SHEET LIST	
Sheet Number	Sheet Name
S-0	STRUCTURAL NOTES
S-1	SPILLWAY REPAIR PLAN
S-2	SPILLWAY REPAIR PLAN
S-3	SPILLWAY REPAIR DETAILS
S-4	OGEE REPAIR DETAILS
S-5	REPAIR DETAILS AT REINFORCING STEEL LOCATIONS

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RESERVOIR SPILLWAY REPAIR
HAYWOOD COUNTY
NORTH CAROLINA

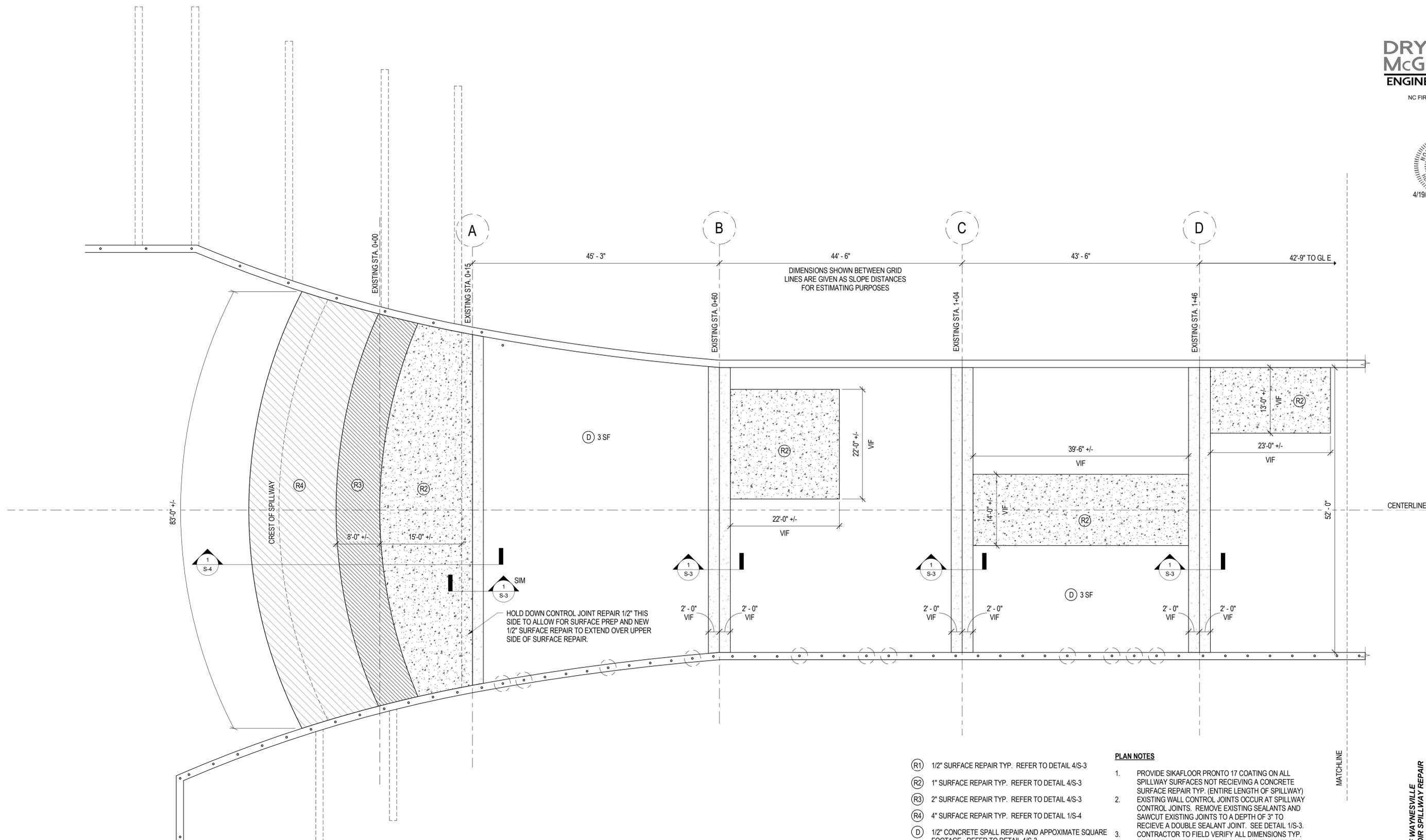
DRYE-MCGLAMERY
ENGINEERING, PLLC
5720 SIX FORKS RD., SUITE 203
RALEIGH, NC 27609

ISSUED FOR CONSTRUCTION

DRAWN BY WGP
CHECKED BY HWD

STRUCTURAL NOTES

S-0



- (R1) 1/2" SURFACE REPAIR TYP. REFER TO DETAIL 4/S-3
 - (R2) 1" SURFACE REPAIR TYP. REFER TO DETAIL 4/S-3
 - (R3) 2" SURFACE REPAIR TYP. REFER TO DETAIL 4/S-3
 - (R4) 4" SURFACE REPAIR TYP. REFER TO DETAIL 1/S-4
 - (D) 1/2" CONCRETE SPALL REPAIR AND APPROXIMATE SQUARE FOOTAGE - REFER TO DETAIL 4/S-3
- DENOTES SAFETY RAILING BALUSTER TYP. ALL POSTS TO RECEIVE NEW SEALANT AT BASE TYP. REFER TO DETAIL 5/S3 AND REPLACING SEALANTS FOR JOINTS AND CRACKS FOR SEALANT INSTALLATION INSTRUCTIONS TYP.

PLAN NOTES

1. PROVIDE SIKAFLOOR PRONTO 17 COATING ON ALL SPILLWAY SURFACES NOT RECEIVING A CONCRETE SURFACE REPAIR TYP. (ENTIRE LENGTH OF SPILLWAY)
 2. EXISTING WALL CONTROL JOINTS OCCUR AT SPILLWAY CONTROL JOINTS. REMOVE EXISTING SEALANTS AND SAWCUT EXISTING JOINTS TO A DEPTH OF 3" TO RECEIVE A DOUBLE SEALANT JOINT. SEE DETAIL 1/S-3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS TYP. PROVIDE NEW SEALANT ALONG ALL COVE JOINTS TYP. REFER TO DETAIL 3/S-3.
 - 3.
 - 4.
- DENOTES SAFETY RAILING BALUSTER LOCATION REQUIRING SPALLING REPAIR OR RUST REPAIR AT BASE TYP. SEE DETAIL 5/S3 FOR FURTHER INSTRUCTION

1 SPILLWAY REPAIR PARTIAL PLAN
1/8" = 1'-0"

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SPILLWAY REPAIR PLAN