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BILL OF REINFORCING FOR BARREL

MARK	NO. (PHASE 1)	NO. (PHASE 2)	SIZE	TYPE	LENGTH	WEIGHT (PHASE 1)	WEIGHT (PHASE 2)
A100	61	12	#5	STR	21'-11"	1394	274
A101	1	2	#5	STR	21'-5"	22	45
A102	1	2	#5	STR	20'-11"	22	44
A103	1	2	#5	STR	20'-5"	21	43
A104	2	2	#5	STR	19'-11"	42	42
A105	2	2	#5	STR	19'-5"	41	41
A106	2	2	#5	STR	18'-11"	39	39
A107	2	2	#5	STR	18'-5"	38	38
A108	2	2	#5	STR	17'-11"	37	37
A109	2	2	#5	STR	17'-5"	36	36
A110	2	2	#5	STR	16'-11"	35	35
A111	2	2	#5	STR	16'-5"	34	34
A112	2	2	#5	STR	15'-11"	33	33
A113	2	2	#5	STR	15'-5"	32	32
A114	2	2	#5	STR	14'-11"	31	31
A115	2	2	#5	STR	14'-5"	30	30
A116	2	2	#5	STR	13'-11"	29	29
A117	2	2	#5	STR	13'-5"	28	28
A118	2	2	#5	STR	12'-11"	27	27
A119	2	2	#5	STR	12'-5"	26	26
A120	2	2	#5	STR	11'-11"	25	25
A121	2	2	#5	STR	11'-5"	24	24
A122	2	2	#5	STR	10'-11"	23	23
A123	2	2	#5	STR	10'-5"	22	22
A124	2	2	#5	STR	9'-11"	21	21
A125	2	2	#5	STR	9'-5"	20	20
A126	2	2	#5	STR	8'-11"	19	19
A127	2	2	#5	STR	8'-5"	18	18
A128	2	2	#5	STR	7'-11"	17	17
A129	2	2	#5	STR	7'-5"	15	15
A130	2	2	#5	STR	6'-11"	14	14
A131	2	2	#5	STR	6'-5"	13	13
A132	2	2	#5	STR	5'-11"	12	12
A133	2	2	#5	STR	5'-5"	11	11
A134	2	2	#5	STR	4'-11"	10	10
A135	2	2	#5	STR	4'-5"	9	9
A136	2	2	#5	STR	3'-11"	8	8
A137	2	2	#5	STR	3'-5"	7	7
A138	2	2	#5	STR	2'-11"	6	6
A139	2	2	#5	STR	2'-5"	5	5
A140	2	2	#5	STR	1'-11"	4	4
A141	2	1	#5	STR	1'-5"	3	1
A142	2	1	#5	STR	11"	2	1
A200	61	12	#4	STR	21'-11"	893	176
A201	1	2	#4	STR	21'-5"	14	29
A202	1	2	#4	STR	20'-11"	14	28
A203	1	2	#4	STR	20'-5"	14	27
A204	2	2	#4	STR	19'-11"	27	27
A205	2	2	#4	STR	19'-5"	26	26
A206	2	2	#4	STR	18'-11"	25	25
A207	2	2	#4	STR	18'-5"	25	25
A208	2	2	#4	STR	17'-11"	24	24
A209	2	2	#4	STR	17'-5"	23	23
A210	2	2	#4	STR	16'-11"	23	23
A211	2	2	#4	STR	16'-5"	22	22
A212	2	2	#4	STR	15'-11"	21	21
A213	2	2	#4	STR	15'-5"	21	21
A214	2	2	#4	STR	14'-11"	20	20
A215	2	2	#4	STR	14'-5"	19	19
A216	2	2	#4	STR	13'-11"	19	19
A217	2	2	#4	STR	13'-5"	18	18
A218	2	2	#4	STR	12'-11"	17	17
A219	2	2	#4	STR	12'-5"	17	17
A220	2	2	#4	STR	11'-11"	16	16
A221	2	2	#4	STR	11'-5"	15	15
A222	2	2	#4	STR	10'-11"	15	15
A223	2	2	#4	STR	10'-5"	14	14
A224	2	2	#4	STR	9'-11"	13	13
A225	2	2	#4	STR	9'-5"	13	13
A226	2	2	#4	STR	8'-11"	12	12
A227	2	2	#4	STR	8'-5"	11	11
A228	2	2	#4	STR	7'-11"	11	11
A229	2	2	#4	STR	7'-5"	10	10
A230	2	2	#4	STR	6'-11"	9	9

MARK	NO. (PHASE 1)	NO. (PHASE 2)	SIZE	TYPE	LENGTH	WEIGHT (PHASE 1)	WEIGHT (PHASE 2)
A231	2	2	#4	STR	6'-5"	9	9
A232	2	2	#4	STR	5'-11"	8	8
A233	2	2	#4	STR	5'-5"	7	7
A234	2	2	#4	STR	4'-11"	7	7
A235	2	2	#4	STR	4'-5"	6	6
A236	2	2	#4	STR	3'-11"	5	5
A237	2	2	#4	STR	3'-5"	5	5
A238	2	2	#4	STR	2'-11"	4	4
A239	2	2	#4	STR	2'-5"	3	3
A240	2	2	#4	STR	1'-11"	3	3
A241	2	1	#4	STR	1'-5"	2	1
A242	2	1	#4	STR	11"	1	1
A300	61	12	#6	STR	21'-11"	2008	395
A301	1	2	#6	STR	21'-5"	32	64
A302	1	2	#6	STR	20'-11"	31	63
A303	1	2	#6	STR	20'-5"	31	61
A304	2	2	#6	STR	19'-11"	60	60
A305	2	2	#6	STR	19'-5"	58	58
A306	2	2	#6	STR	18'-11"	57	57
A307	2	2	#6	STR	18'-5"	55	55
A308	2	2	#6	STR	17'-11"	54	54
A309	2	2	#6	STR	17'-5"	52	52
A310	2	2	#6	STR	16'-11"	51	51
A311	2	2	#6	STR	16'-5"	49	49
A312	2	2	#6	STR	15'-11"	48	48
A313	2	2	#6	STR	15'-5"	46	46
A314	2	2	#6	STR	14'-11"	45	45
A315	2	2	#6	STR	14'-5"	43	43
A316	2	2	#6	STR	13'-11"	42	42
A317	2	2	#6	STR	13'-5"	40	40
A318	2	2	#6	STR	12'-11"	39	39
A319	2	2	#6	STR	12'-5"	37	37
A320	2	2	#6	STR	11'-11"	36	36
A321	2	2	#6	STR	11'-5"	34	34
A322	2	2	#6	STR	10'-11"	33	33
A323	2	2	#6	STR	10'-5"	31	31
A324	2	2	#6	STR	9'-11"	30	30
A325	2	2	#6	STR	9'-5"	28	28
A326	2	2	#6	STR	8'-11"	27	27
A327	2	2	#6	STR	8'-5"	25	25
A328	2	2	#6	STR	7'-11"	24	24
A329	2	2	#6	STR	7'-5"	22	22
A330	2	2	#6	STR	6'-11"	21	21
A331	2	2	#6	STR	6'-5"	19	19
A332	2	2	#6	STR	5'-11"	18	18
A333	2	2	#6	STR	5'-5"	16	16
A334	2	2	#6	STR	4'-11"	15	15
A335	2	2	#6	STR	4'-5"	13	13
A336	2	2	#6	STR	3'-11"	12	12
A337	2	2	#6	STR	3'-5"	10	10
A338	2	2	#6	STR	2'-11"	9	9
A339	2	2	#6	STR	2'-5"	7	7
A340	2	2	#6	STR	1'-11"	6	6
A341	2	1	#6	STR	1'-5"	4	2
A342	2	1	#6	STR	11"	3	1
A400	61	12	#6	STR	21'-11"	2008	395
A401	1	2	#6	STR	21'-5"	32	64
A402	1	2	#6	STR	20'-11"	31	63
A403	1	2	#6	STR	20'-5"	31	61
A404	2	2	#6	STR	19'-11"	60	60
A405	2	2	#6	STR	19'-5"	58	58
A406	2	2	#6	STR	18'-11"	57	57
A407	2	2	#6	STR	18'-5"	55	55
A408	2	2	#6	STR	17'-11"	54	54
A409	2	2	#6	STR	17'-5"	52	52
A410	2	2	#6	STR	16'-11"	51	51
A411	2	2	#6	STR	16'-5"	49	49
A412	2	2	#6	STR	15'-11"	48	48
A413	2	2	#6	STR	15'-5"	46	46
A414	2	2	#6	STR	14'-11"	45	45
A415	2	2	#6	STR	14'-5"	43	43
A416	2	2	#6	STR	13'-11"	42	42
A417	2	2	#6	STR	13'-5"	40	40

MARK	NO. (PHASE 1)	NO. (PHASE 2)	SIZE	TYPE	LENGTH	WEIGHT (PHASE 1)	WEIGHT (PHASE 2)
A418	2	2	#6	STR	12'-11"	39	39
A419	2	2	#6	STR	12'-5"	37	37
A420	2	2	#6	STR	11'-11"	36	36
A421	2	2	#6	STR	11'-5"	34	34
A422	2	2	#6	STR	10'-11"	33	33
A423	2	2	#6	STR	10'-5"	31	31
A424	2	2	#6	STR	9'-11"	30	30
A425	2	2	#6	STR	9'-5"	28	28
A426	2	2	#6	STR	8'-11"	27	27
A427	2	2	#6	STR	8'-5"	25	25
A428	2	2	#6	STR	7'-11"	24	24
A429	2	2	#6	STR	7'-5"	22	22
A430	2	2	#6	STR	6'-11"	21	21
A431	2	2	#6	STR	6'-5"	19	19
A432	2	2	#6	STR	5'-11"	18	18
A433	2	2	#6	STR	5'-5"	16	16
A434	2	2	#6	STR	4'-11"	15	15
A435	2	2	#6	STR	4'-5"	13	13
A436	2	2	#6	STR	3'-11"	12	12
A437	2	2	#6	STR	3'-5"	10	10
A438	2	2	#6	STR	2'-11"	9	9
A439	2	2	#6	STR	2'-5"	7	7
A440	2	2	#6	STR	1'-11"	6	6
A441	2	1	#6	STR	1'-5"	4	2
A442	2	1	#6	STR	11"	3	1
A1	199	103	#6	①	6'-4"	1893	980
A2	199	103	#6	①	6'-4"	1893	980
B1	100	56	#4	STR	7'-9"	518	290
B2	200	112	#4	STR	5'-4"	713	399
B3	100	56	#4	STR	7'-9"	518	290
C1	148	0	#4	STR	27'-5"	2711	0
C2	0	74	#4	STR	27'-7"	0	1363
D1	3	3	#6	STR	2'-6"	11	11
D2	3	3	#6	STR	1'-6"	7	7
G1	4	4	#5	STR	30'-11"	129	129
G2	2	0	#5	STR	30'-11"	64	0
S1	6	6	#6	STR	30'-11"	279	279
S2	22	0	#4	②	8'-0"	118	0

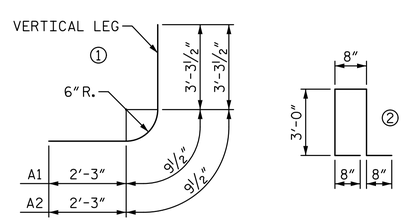
PHASE 1 BARREL REINFORCING STEEL = 19,282 LBS.
PHASE 2 BARREL REINFORCING STEEL = 10,378 LBS.
TOTAL BARREL REINFORCING STEEL = 29,660 LBS.

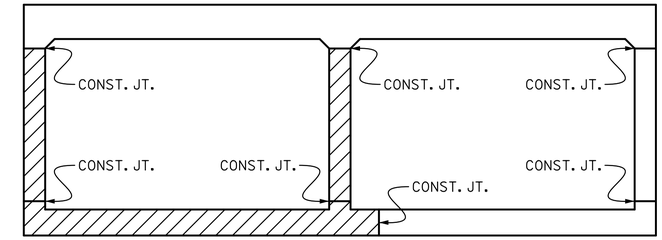
PHASE 1 BARREL CONCRETE = 2.259 CY/FT = 112.9 CY
PHASE 2 BARREL CONCRETE = 2.259 CY/FT = 63.3 CY
TOTAL BARREL CONCRETE = 176.2 CY

FOUNDATION CONDITIONING MATERIAL
PHASE 1 = 79 TONS
PHASE 2 = 44 TONS
TOTAL = 123 TONS

BAR TYPES

BAR DIMENSIONS ARE OUT TO OUT





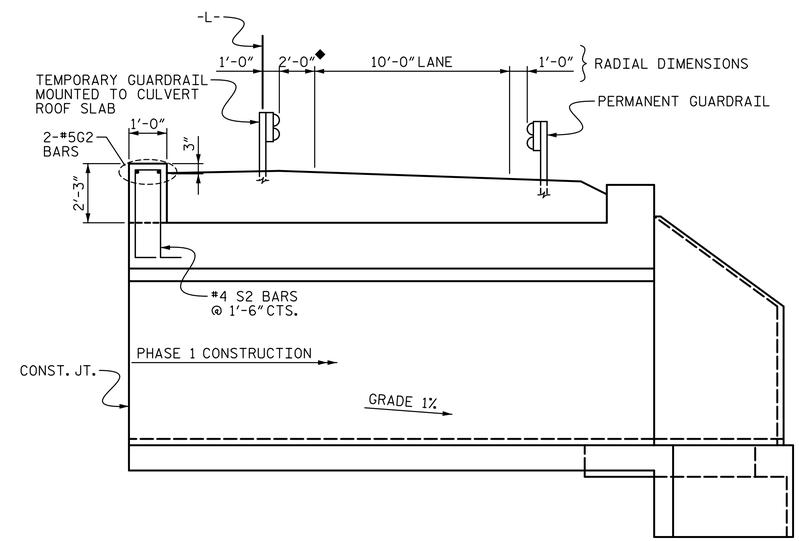
STAGE 1

STAGE 1
POUR 1. STAGE 1 FLOOR SLAB (INCLUDING WING FOOTING) WITH 4" OF VERTICAL WALLS/WING.
POUR 2. REMAINING PORTIONS OF STAGE 1 WALLS/WING TO FULL HEIGHT.

STAGE 2

STAGE 2
POUR 1. STAGE 2 FLOOR SLAB (INCLUDING WING FOOTING) WITH 4" OF VERTICAL WALL/WING.
POUR 2. REMAINING PORTIONS OF STAGE 2 WALL/WING TO FULL HEIGHT.
POUR 3. ENTIRE ROOF SLAB AND HEADWALL(S).

OPTIONAL STAGING WITHIN A CONSTRUCTION PHASE



PHASE 1 CONSTRUCTION ROADWAY SECTION VIEW

(LOOKING UPSTATION)

◆ TEMPORARY GUARDRAIL SHALL BE ALIGNED PARALLEL (RADIAL) WITH -L-.

PROJECT NO. B-6028
MACON COUNTY
STATION: 15+25.00 -L-

SHEET 7 OF 11

DocuSigned by: 68C7E5EFD4F8...

NORTH CAROLINA PROFESSIONAL SEAL 038640 ENGINEER WESLEY JONES
12/10/2021

STV 100 Years
STV ENGINEERS, INC.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 10'-0" X 6'-0" CONCRETE BOX CULVERT ON SR 1528 AT ELLIJAY CREEK 135°-00'-00" SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-7
1			3			TOTAL SHEETS
2			4			14

DRAWN BY : LEM DATE : 8-17
CHECKED BY : JAD DATE : 9-17
DESIGN ENGINEER OF RECORD : JWJ DATE : 12-21

R:\Structures\ustation\40_013_17BP.14_R.157_SMU_RCBC07.dgn
12/1/2021 6:26:31 PM
JJones