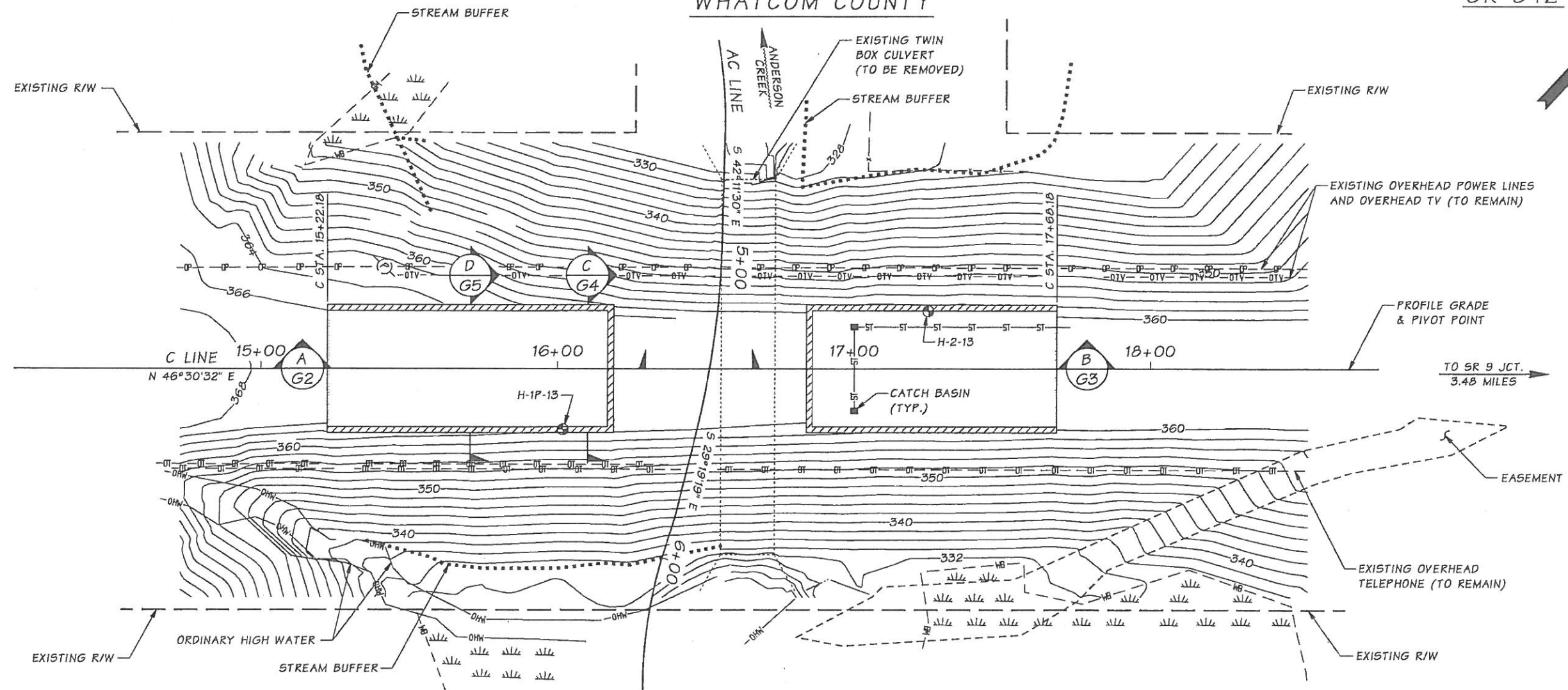










SEC. 6, T.38N., R.4E., W.M.
WHATCOM COUNTY

SR 542



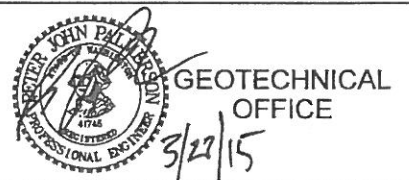
PLAN

LEGEND

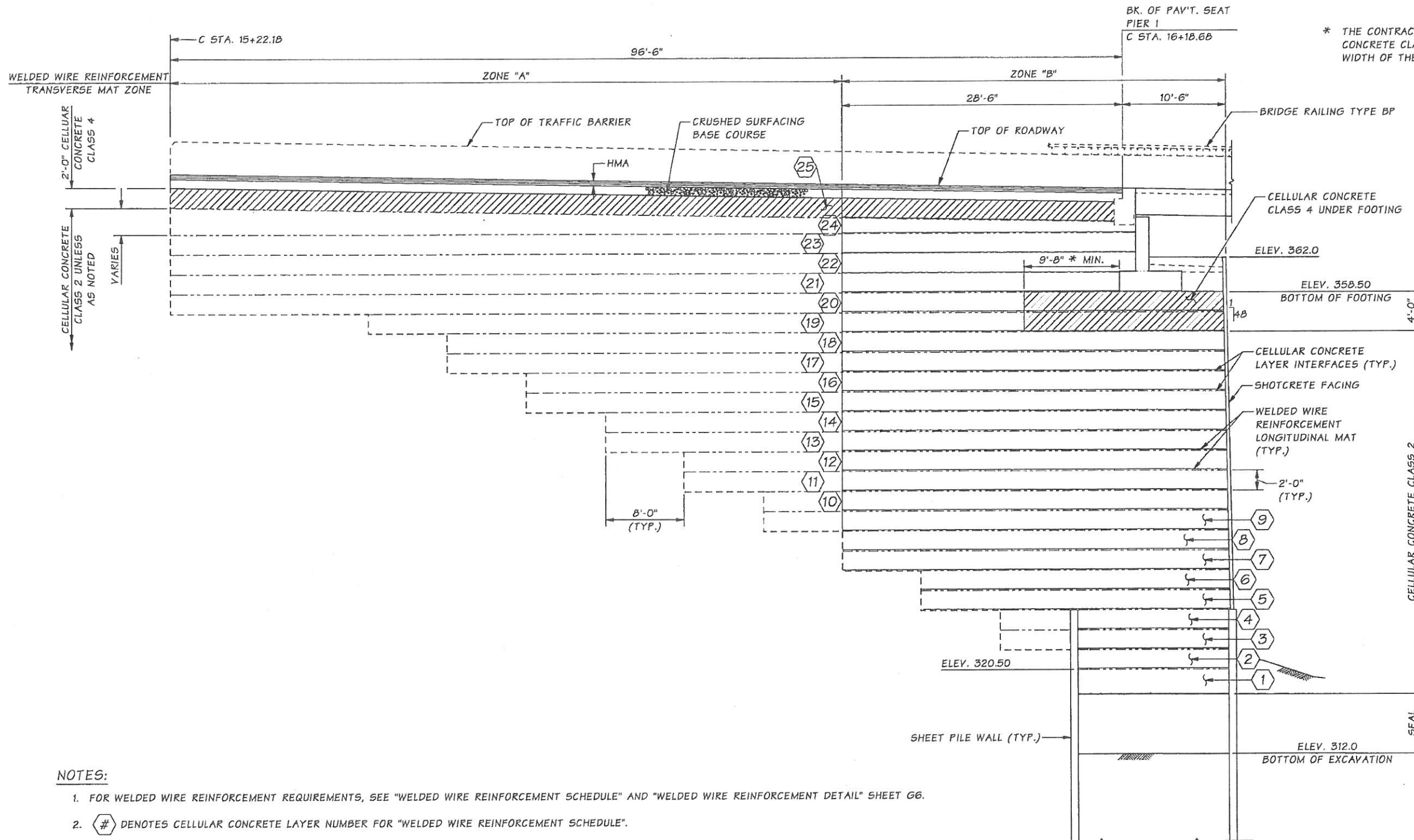
-  IDENTIFIES SECTION OR VIEW
-  TAKEN OR SHOWN ON SHEET G2
-  IDENTIFIES DETAIL
-  TAKEN OR SHOWN ON THE SAME SHEET
-  TEST BORING DESIGNATION AND APPROXIMATE LOCATION.
-  H-2-13
-  APPROXIMATE LIMITS OF CELLULAR CONCRETE.
-  PROPOSED STORM SEWER

SR 542 FILE NO. SHEET G1

State Geotechnical Engr. Tony Allen	M:\x-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH\window files\CCW1.wnd		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor Tony Allen			10	WASH.			
Designed By Pete Palmerson	11/14						
Checked By Tony Allen	12/14						
Detailed By Rontemps, W	12/14						
Bridge Projects Engr.			JOB NUMBER		STPF - 0542 (038)		
Prelim. Plan By			14A024				
Architect/Specialist	DATE	REVISION	CONTRACT NO.				



SR 542 ANDERSON CREEK CULVERT		SHEET NO. G1
CELLULAR CONCRETE RETAINING WALL DETAILS 1 OF 7		SHEET 106 OF 136 SHEETS



* THE CONTRACTOR MAY USE THE CELLULAR CONCRETE CLASS 4 OVER THE ENTIRE WIDTH OF THESE LAYERS.

NOTES:

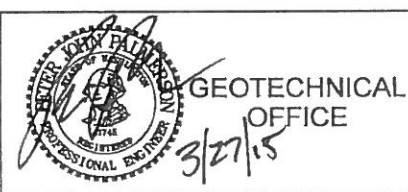
1. FOR WELDED WIRE REINFORCEMENT REQUIREMENTS, SEE "WELDED WIRE REINFORCEMENT SCHEDULE" AND "WELDED WIRE REINFORCEMENT DETAIL" SHEET G6.
2. (#) DENOTES CELLULAR CONCRETE LAYER NUMBER FOR "WELDED WIRE REINFORCEMENT SCHEDULE".
3. SEE BR. SHT. B14 FOR RETAINING WALL DETAILS.
4. SEE SHEET R53 FOR ROADWAY SECTIONS DETAILS.

SECTION A
G1

WELDED WIRE REINFORCEMENT TRANSVERSE MAT NOT SHOWN.

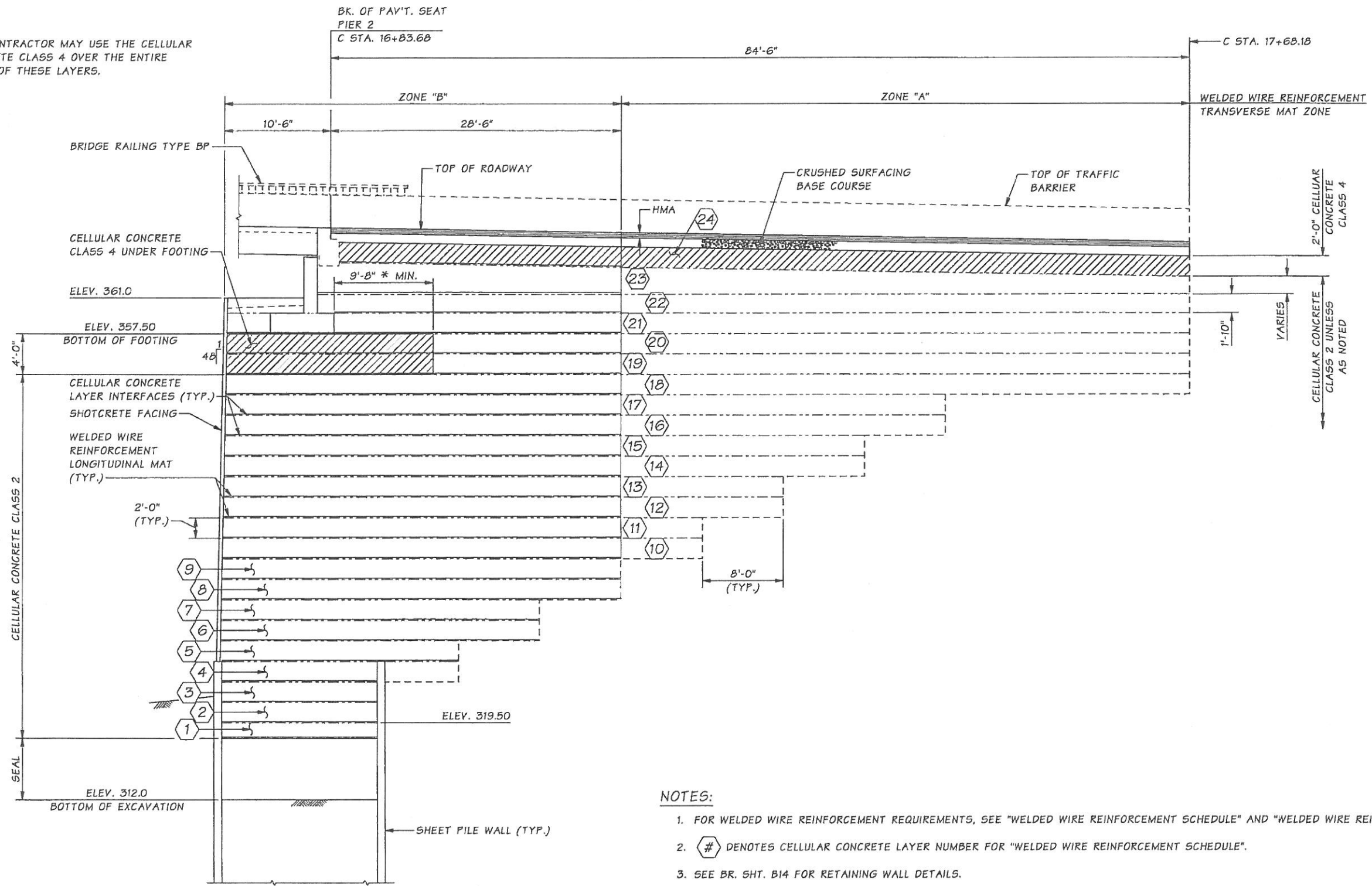
SR 542 FILE NO. SHEET G2

State Geotechnical Engr. Tony Allen	M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH>window files\CCw2.wnd	
Supervisor Tony Allen	REGION NO. 10	STATE WASH.
Designed By Pete Palmerston 11/14	JOB NUMBER 14AD24	FED. AID PROJ. NO. STPF - 0542 (03B)
Checked By Tony Allen 12/14	CONTRACT NO.	
Detailed By Bontemps, W 12/14	DATE	REVISION
Bridge Projects Engr.	BY	APPD
Prelim. Plan By		
Architect/Specialist		



SR 542 ANDERSON CREEK CULVERT		SHEET NO. G2
CELLULAR CONCRETE RETAINING WALL DETAILS 2 OF 7		SHEET 107 OF 136 SHEETS

* THE CONTRACTOR MAY USE THE CELLULAR CONCRETE CLASS 4 OVER THE ENTIRE WIDTH OF THESE LAYERS.




NOTES:

1. FOR WELDED WIRE REINFORCEMENT REQUIREMENTS, SEE "WELDED WIRE REINFORCEMENT SCHEDULE" AND "WELDED WIRE REINFORCEMENT DETAIL" SHEET G6.
2. (#) DENOTES CELLULAR CONCRETE LAYER NUMBER FOR "WELDED WIRE REINFORCEMENT SCHEDULE".
3. SEE BR. SHT. B14 FOR RETAINING WALL DETAILS.
4. SEE SHEET DRI FOR DRAINAGE PLAN.
5. SEE SHEET DP1 FOR DRAINAGE PROFILE.
6. SEE SHEET RS3 FOR ROADWAY SECTIONS DETAILS.

SECTION B
G1
WELDED WIRE REINFORCEMENT TRANSVERSE MAT NOT SHOWN.

SR 542 FILE NO. SHEET G3

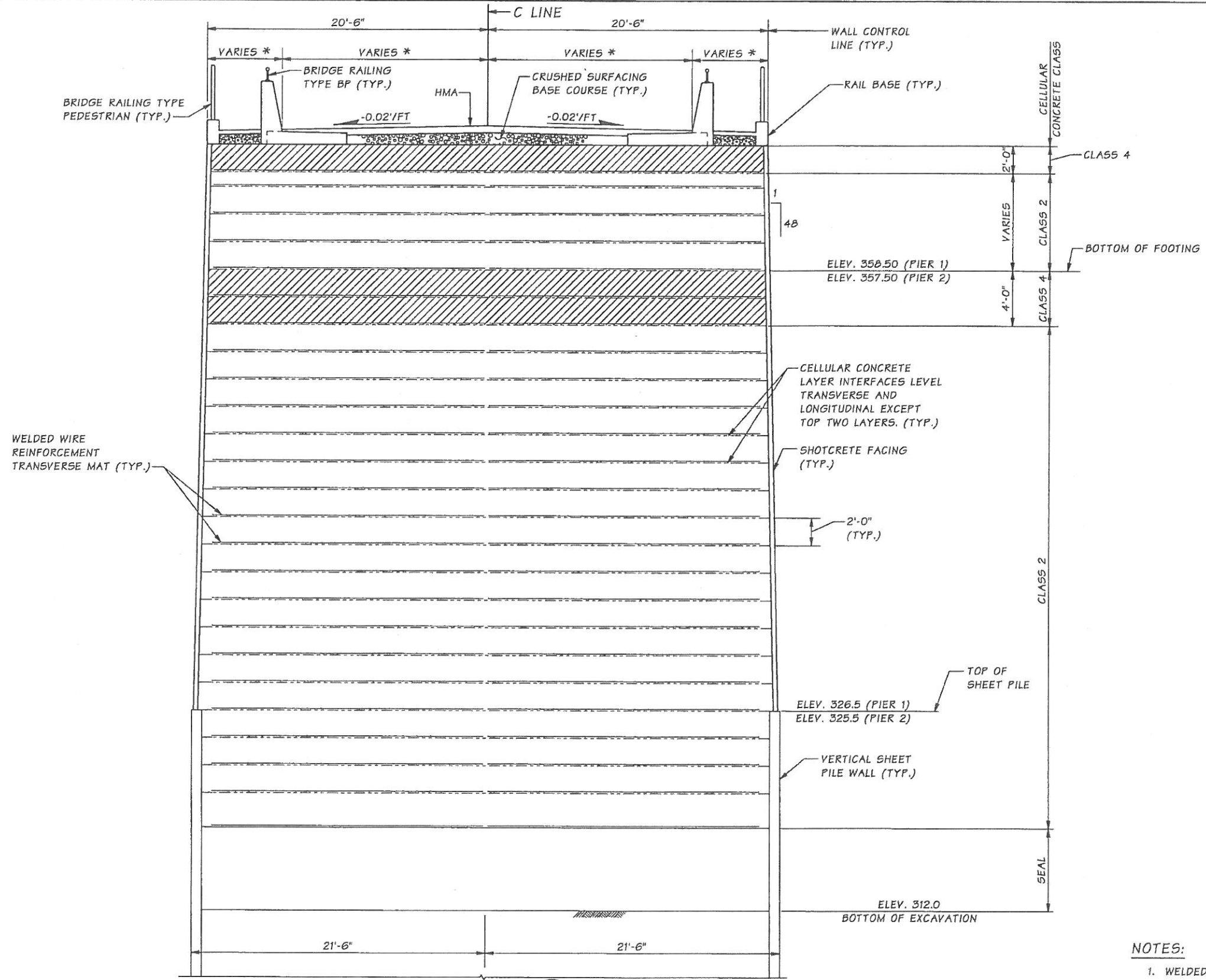
State Geotechnical Engr. Tony Allen	M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH>window files\CCW3.wnd				
Supervisor Tony Allen	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By Pete Palmerson 11/14	10	WASH.			
Checked By Tony Allen 12/14	JOB NUMBER 14A024		STPF - 0542 (03B)		
Detailed By Bontemps, W 12/14	CONTRACT NO.				
Bridge Projects Engr.	DATE	REVISION	BY	APPD	
Prelim. Plan By					
Architect/Specialist					


GEOTECHNICAL OFFICE
 3/27/15



SR 542 ANDERSON CREEK CULVERT		SHEET NO. G3
CELLULAR CONCRETE RETAINING WALL DETAILS 3 OF 7		SHEET 108 OF 136 SHEETS

SR 542 FILE NO. SHEET G4

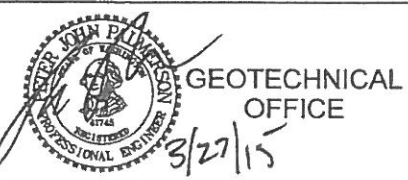


SECTION C
G1

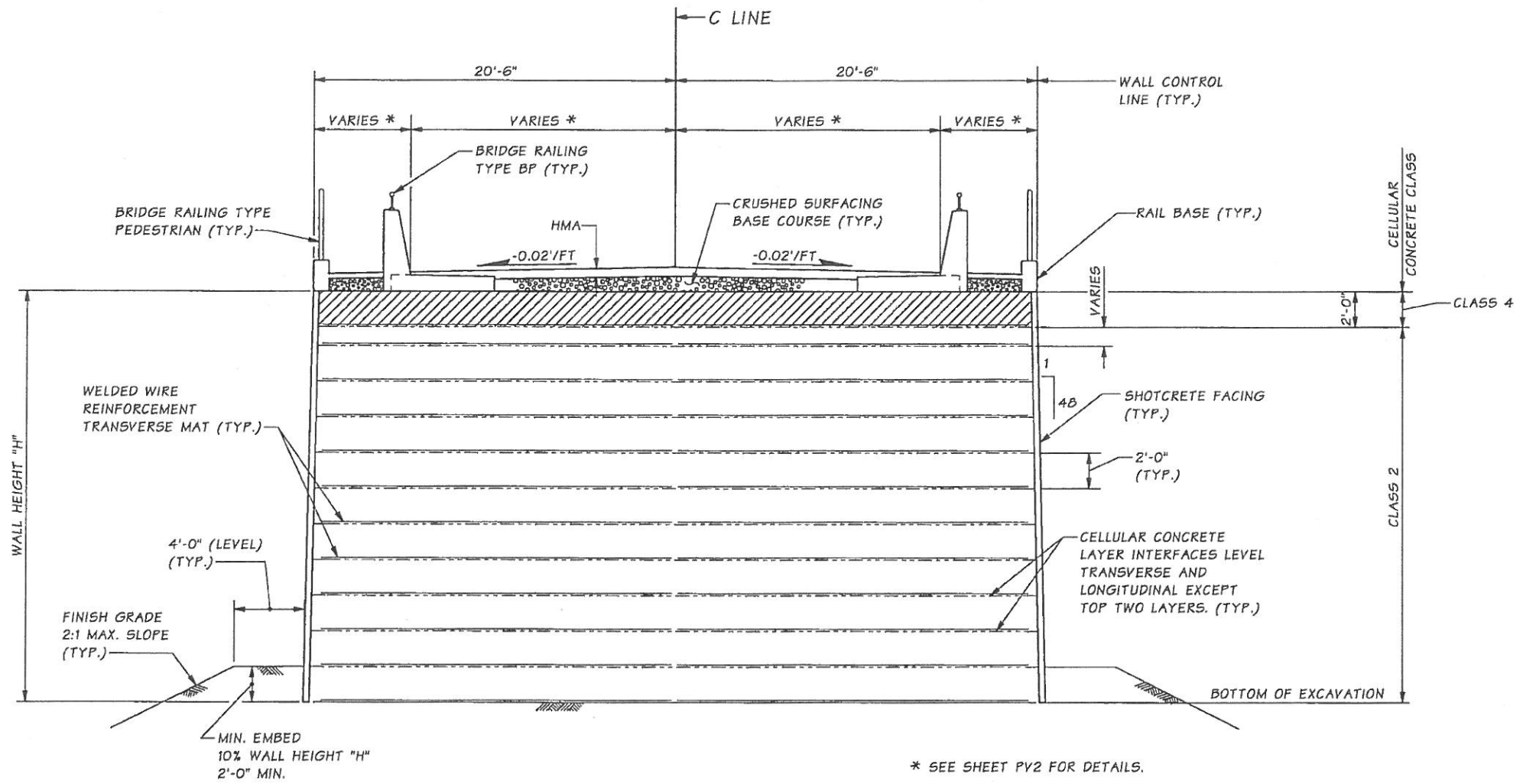
SHOWN NEAR PIER 1, PIER 2 SIMILAR * SEE SHEET PV2 FOR DETAILS. WELDED WIRE REINFORCEMENT LONGITUDINAL MAT NOT SHOWN.

- NOTES:
1. WELDED WIRE REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "WELDED WIRE REINFORCEMENT SCHEDULE" AND "WELDED WIRE REINFORCEMENT DETAIL" SHT. G6.

Slate Geotechnical Engr. Tony Allen		M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH>window files\CCW4.wnd	
Supervisor	Tony Allen	REGION NO.	STATE
Designed By	Pete Palmerson 11/14	10	WASH.
Checked By	Tony Allen 12/14	JOB NUMBER	STPF - 0542 (03B)
Detailed By	Bontemps, W 12/14	14A024	
Bridge Projects Engr.		CONTRACT NO.	
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APPD



SR 542 ANDERSON CREEK CULVERT		SHEET NO. G4
CELLULAR CONCRETE RETAINING WALL DETAILS 4 OF 7		SHEET 109 OF 136 SHEETS



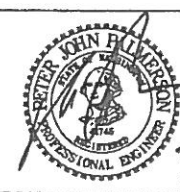
* SEE SHEET PV2 FOR DETAILS.

SECTION **D**
 SHOWN NEAR PIER 1 **G1**
 PIER 2 SIMILAR

- NOTES:**
1. WELDED WIRE REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "WELDED WIRE REINFORCEMENT SCHEDULE" AND "WELDED WIRE REINFORCEMENT DETAIL" SHT. G6.

SR 542 FILE NO. SHEET 65

State Geotechnical Engr. Tony Allen	M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH>window files\CCW5.wnd			
Supervisor Tony Allen	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By Pete Palmerson 11/14	10	WASH.		
Checked By Tony Allen 12/14	JOB NUMBER	STPF - 0542 (03B)		
Detailed By Bontemps, W 12/14	14A024			
Bridge Projects Engr.	CONTRACT NO.			
Prelim. Plan By	DATE	REVISION	BY	APP'D
Architect/Specialist				



GEOTECHNICAL OFFICE
 3/27/15



SR 542 ANDERSON CREEK CULVERT		SHEET NO. G5
CELLULAR CONCRETE RETAINING WALL DETAILS 5 OF 7		SHEET 110 OF 136 SHEETS

WELDED WIRE REINFORCEMENT SCHEDULE

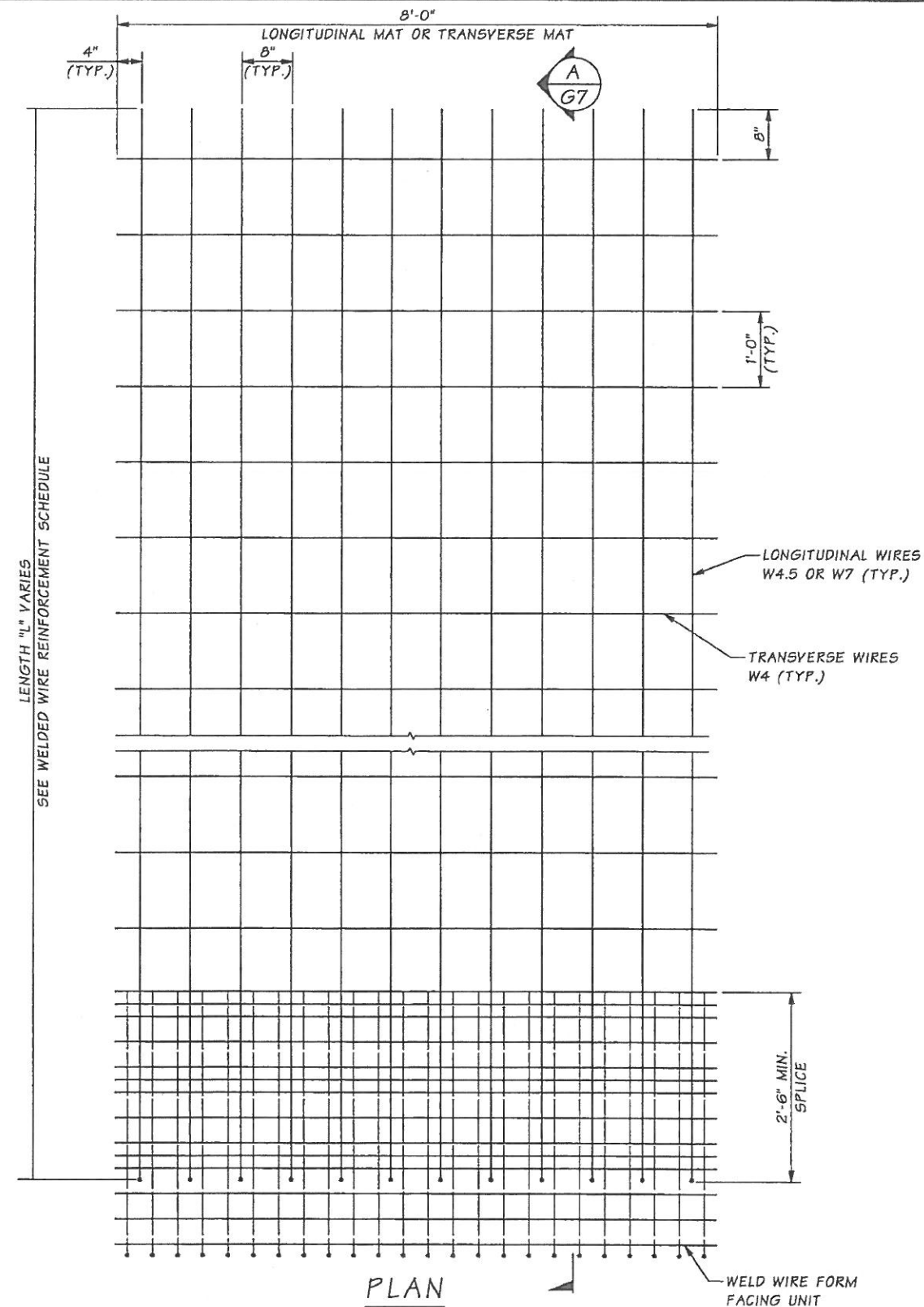
PIER	LOCATION	CELLULAR CONCRETE LAYER	STYLE	LENGTH "L"
1	LONGITUDINAL MAT	1 THRU 4	8 x 12 - W4.5 x W4	15'-0"
		5 & 6	8 x 12 - W4.5 x W4	31'-0"
		7 THRU 17	8 x 12 - W4.5 x W4	39'-0"
		18, 19 & 20	8 x 12 - W7 x W4	39'-0"
		21, 22, 23, 24 & 25	8 x 12 - W4.5 x W4	25'-0"
	TRANSVERSE MAT	ALL EXCEPT LAYERS 18, 19 & 20 ZONE "B"	8 x 12 - W4.5 x W4	20'-0"
		LAYERS 18, 19 & 20 ZONE "B"	8 x 12 - W7 x W4	20'-0"
2	LONGITUDINAL MAT	1 THRU 4	8 x 12 - W4.5 x W4	15'-0"
		5	8 x 12 - W4.5 x W4	23'-0"
		6 & 7	8 x 12 - W4.5 x W4	31'-0"
		8 THRU 17	8 x 12 - W4.5 x W4	39'-0"
		18, 19 & 20	8 x 12 - W7 x W4	39'-0"
		21, 22, 23, & 24	8 x 12 - W4.5 x W4	25'-0"
	TRANSVERSE MAT	ALL EXCEPT LAYERS 18, 19 & 20 ZONE "B"	8 x 12 - W4.5 x W4	20'-0"
		LAYERS 18, 19 & 20 ZONE "B"	8 x 12 - W7 x W4	20'-0"

NOTES:

1. PLACE LONGITUDINAL WIRES OF LONGITUDINAL MAT PARALLEL TO CENTERLINE OF ROADWAY.
2. PLACE LONGITUDINAL WIRES OF TRANSVERSE MAT NORMAL TO CENTERLINE OF ROADWAY.
3. WELDED WIRE REINFORCEMENT FOR BOTH LONGITUDINAL MATS AND TRANSVERSE MATS SHALL CONFORM TO AASHTO M 55.
4. LONGITUDINAL MATS AND TRANSVERSE MATS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 641 OR AASHTO M 111 AS APPLICABLE. MINIMUM COATING THICKNESS SHALL BE TWO OUNCES PER SQUARE FOOT AND EQUIVALENT. ALL DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH ONE COAT OF PAINT CONFORMING TO STD. SPEC. SECTION 9-08.1(2) B.
5. LONGITUDINAL MATS AND TRANSVERSE MATS SHALL HAVE 90° BEND EXCEPT IN THE AREA ENCLOSED BY THE STEEL SHEET PILES WHERE NO BEND IS NECESSARY (SEE BR. SHT. G7 FOR DETAILS).
6. THE CONTRACTOR SHALL TRIM WELDED WIRE REINFORCEMENT INTERFERE WITH CATCH BASIN (MAX. 4 LONGITUDINAL WIRES). CUTTING OF THE LONGITUDINAL WIRE SHALL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER AT OTHER LOCATIONS.

NOTES:

1. FOR WELDED WIRE FORM FACING UNIT DETAILS SEE SHEET G7.

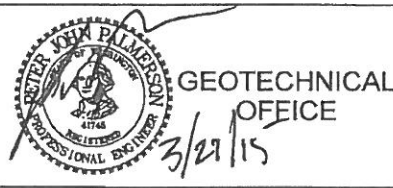


WELDED WIRE REINFORCEMENT DETAIL

CONSTR. GEOTEXTILE NOT SHOWN FOR CLARITY.

SR 542 FILE NO. SHEET 66

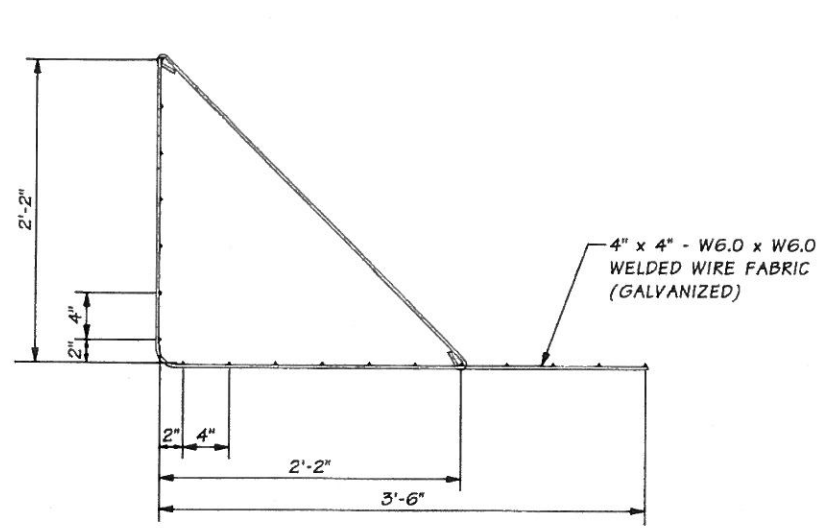
State Geotechnical Engr. Tony Allen		M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH>window files\CCW6.wnd	
Supervisor	Tony Allen	REGION NO.	STATE
Designed By	Pete Palmerson 11/14	10	WASH.
Checked By	Tony Allen 12/14	JOB NUMBER	FED. AID PROJ. NO.
Detailed By	Bontemps, W 12/14	14A024	STPF - 0542 (05B)
Bridge Projects Engr.		CONTRACT NO.	
Prelim. Plan By			
Architect/Specialist	DATE	REVISION	BY APP'D



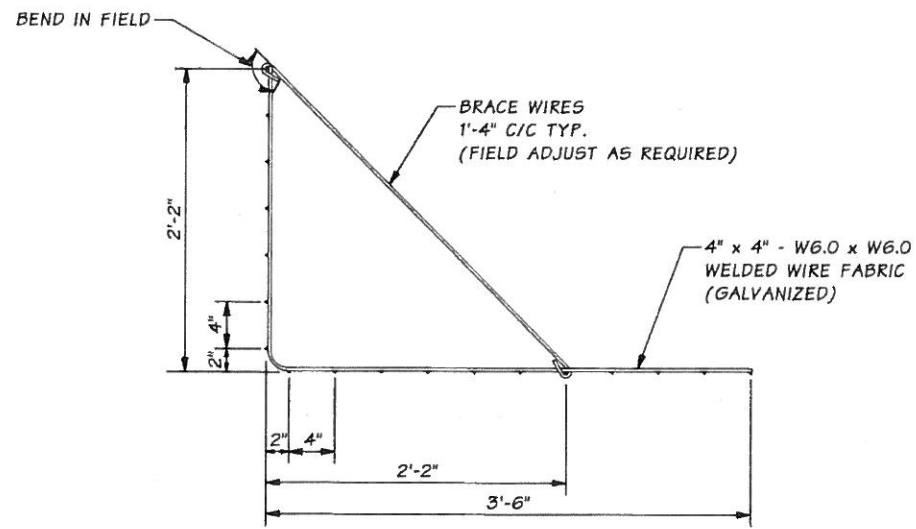
SR 542
ANDERSON CREEK CULVERT

CELLULAR CONCRETE RETAINING WALL
DETAILS 6 OF 7

SHEET NO. 66
111 OF 136 SHEETS

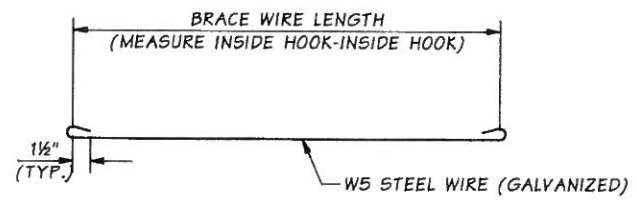


TYPE 2

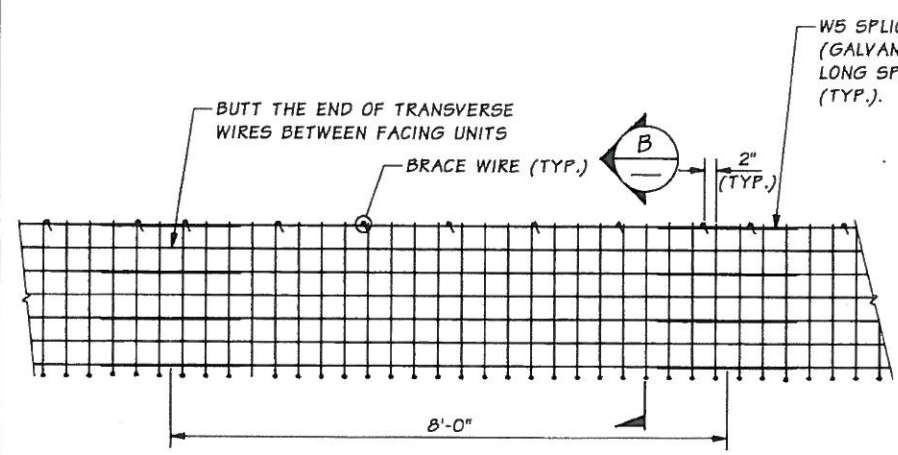


TYPE 1

SECTION B



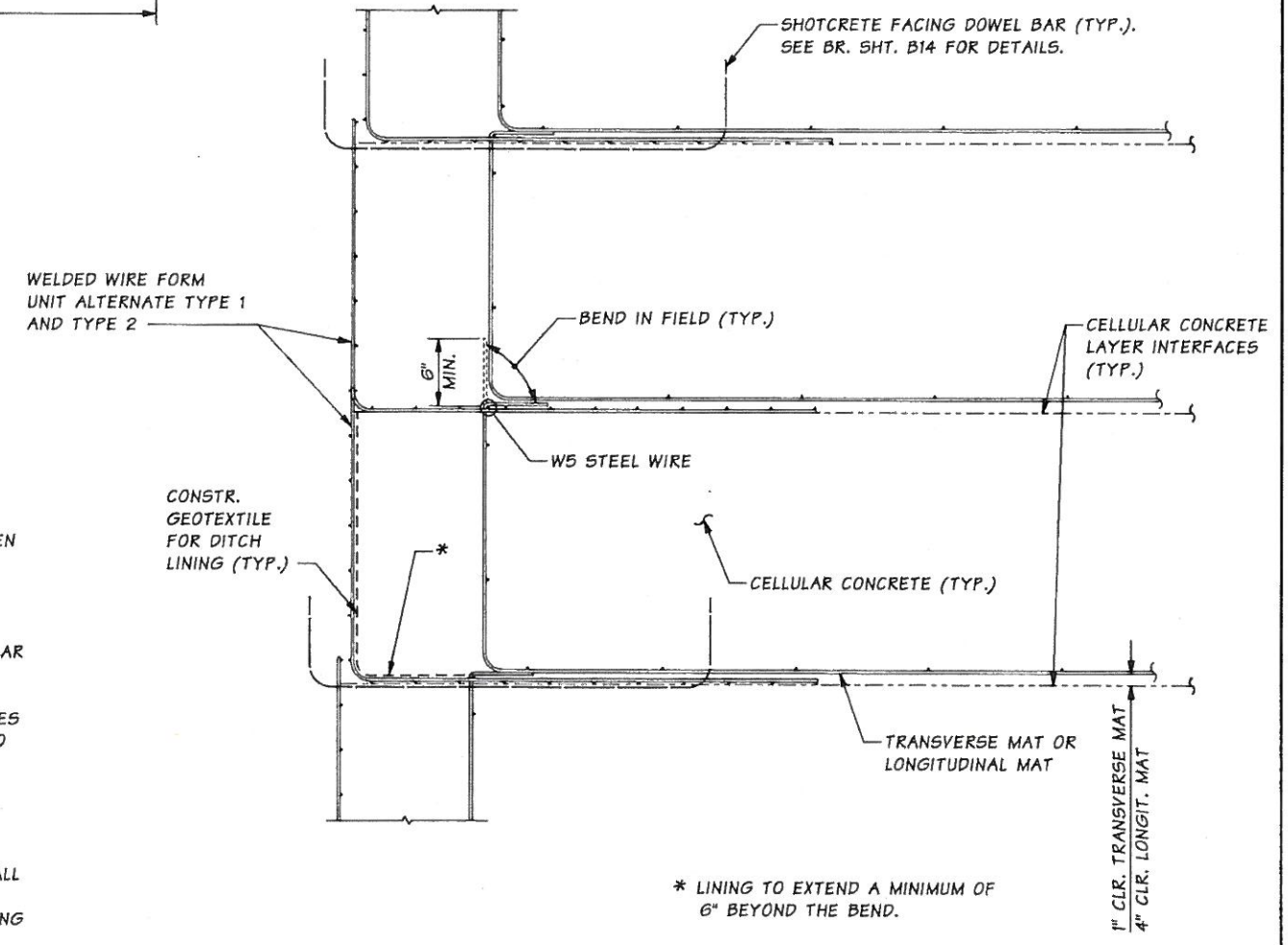
BRACE WIRE DETAIL



ELEVATION
WELDED WIRE FORM FACING UNIT

NOTES:

1. THE WELDED WIRE FORM FACING UNIT HAS BEEN DESIGNED TO SUPPORT 2 FOOT LIFTS OF CELLULAR CONCRETE. THIS FORM FACING UNIT SYSTEM IS A PROPOSED SYSTEM. THE CONTRACTOR MAY PROPOSE AN ALTERNATE SYSTEM AS REQUIRED TO CONTAIN THE CELLULAR CONCRETE FOR PLACEMENT.
2. WELDED WIRE FORM FACING UNITS, BRACE WIRES AND SPLICE WIRES SHALL CONFORM TO AASHTO M 55.
3. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A 641 OR AASHTO M 111 AS APPLICABLE. MINIMUM COATING THICKNESS SHALL BE TWO OUNCES PER SQUARE FOOT AND EQUIVALENT. ALL DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH ONE COAT OF PAINT CONFORMING TO STD. SPEC. SECTION 9-08.1(2) B.
4. CONSTRUCTION GEOTEXTILE FOR DITCH LINING SHALL CONFORM TO THE PROPERTIES IN TABLE 4 WOVEN DITCH LINING IN STD. SPEC. SECTION 9-33.
5. SPLICE WIRES SHALL BE USED BETWEEN FACING UNITS AT EDGES AND CORNERS.



SECTION A
BRACE WIRE AND SHOTCRETE FACING NOT SHOWN

SR 542 FILE NO. SHEET 67

Bridge Design Engr.	Khaloghi, B	M:\X-Team\SR 542 ANDERSON CREEK\ANDERSON CREEK GEOTECH\STRUCTURE>window files\CCW7.wnd	
Supervisor	Stoddard, RB	REGION NO.	TOTAL SHEETS
Designed By	Lee, CS 12/14	STATE	
Checked By	Mizumori, A 02/15	10 WASH.	
Detailed By	Bontemps, W 12/14	JOB NUMBER	STPF - 0542 (03B)
Bridge Projects Engr.		CONTRACT NO.	
Presim. Plan By		DATE	
Architect/Specialist		REVISION	
		BY	APPD



BRIDGE AND STRUCTURES OFFICE



SR 542 ANDERSON CREEK BRIDGE		BRIDGE SHEET NO. G7
CELLULAR CONCRETE RETAINING WALL DETAILS 7 OF 7		SHEET 112 OF 136 SHEETS