



**FIT-UP NOTE:**  
CONTRACTOR TO FIELD VERIFY DIMENSIONS  
PRIOR TO FABRICATION IN ORDER TO CONFIRM  
PROPER FIT BASED ON EXISTING CONDITIONS

**NOTE:**

ALL DIMENSIONS, SECTIONS AND DETAILS OF THE EXISTING STRUCTURE ARE INCLUDED FOR INFORMATION PURPOSED ONLY. THE CONTRACTOR SHALL VERIFY ALL RELEVANT INFORMATION PRIOR TO CONSTRUCTION OR FABRICATION. FABRICATION AND/OR FIT-UP ISSUES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY PRIOR TO THE START OF CONSTRUCTION. SHOULD THERE BE ANY DISCREPANCIES, ERRORS, OR OMISSIONS ON THIS SKETCH, NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS.

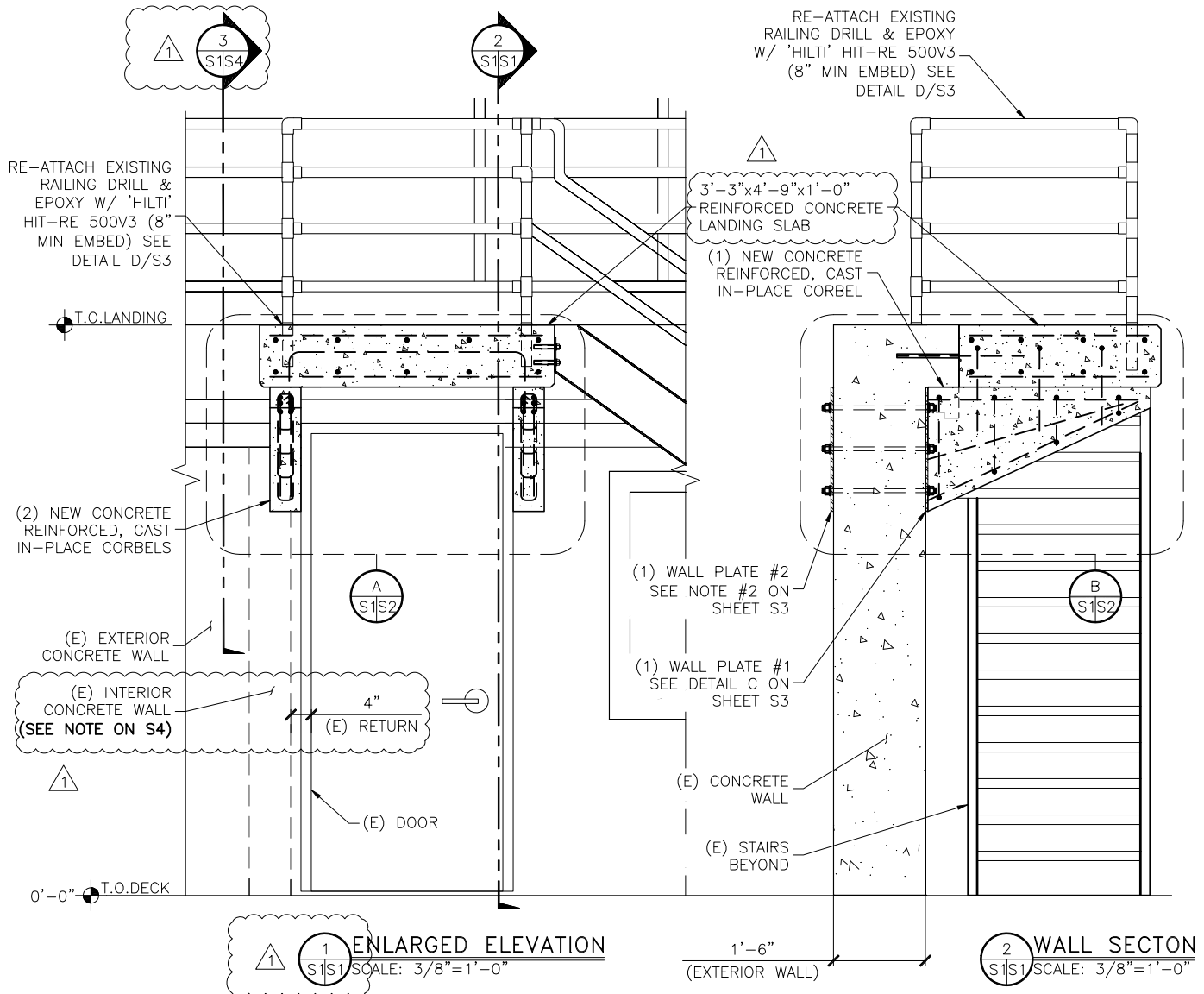
DESIGNED FOR:	DESIGNED BY:	PROJECT NAME:	WY1 MOUNT WASHBURN (ADD. REV 1)
		PROJECT ADDRESS:	YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING
		SHEET TITLE:	SOUTH ELEVATION
		BY: RWB	DATE: 7/21/2020

**FIT-UP NOTE:**

CONTRACTOR TO FIELD VERIFY DIMENSIONS  
PRIOR TO FABRICATION IN ORDER TO CONFIRM  
PROPER FIT BASED ON EXISTING CONDITIONS

**WELDING NOTE:**

1. ALL EXISTING SPOT WELDS TO BE  
GROUND OFF AND REPLACED  
WITH NEW WELDS, SEE DETAIL  
E/S3.

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DESIGNED FOR:

DESIGNED BY:

PROJECT NAME:

WY1 MOUNT WASHBURN (ADD. REV 1)

PROJECT ADDRESS:

YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING

SHEET TITLE:

CONCRETE LANDING DETAILS

BY:

RWB

DATE:

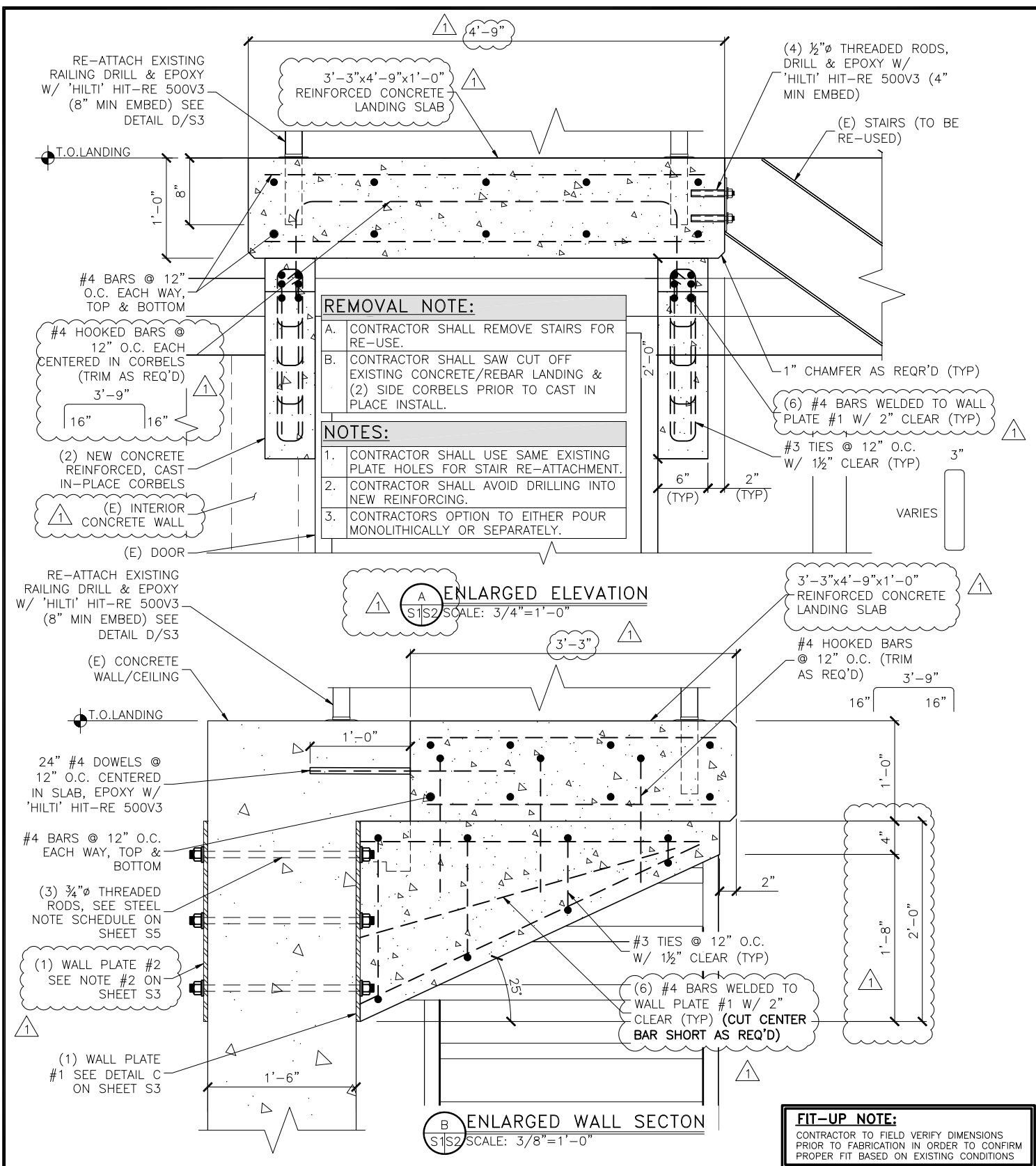
7/21/2020

SHEET NUMBER:

S1

**verizon**

**5 INFRASTRUCTURE**  
PARTNERS



**NOTE:**

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		PROJECT ADDRESS:	YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING
		SHEET TITLE:	ENLARGED WALL DETAILS
		BY: RWB	DATE: 7/21/2020
		SHEET NUMBER:	S2

**verizon**

**5 INFRASTRUCTURE PARTNERS**

**FIT-UP NOTE:**

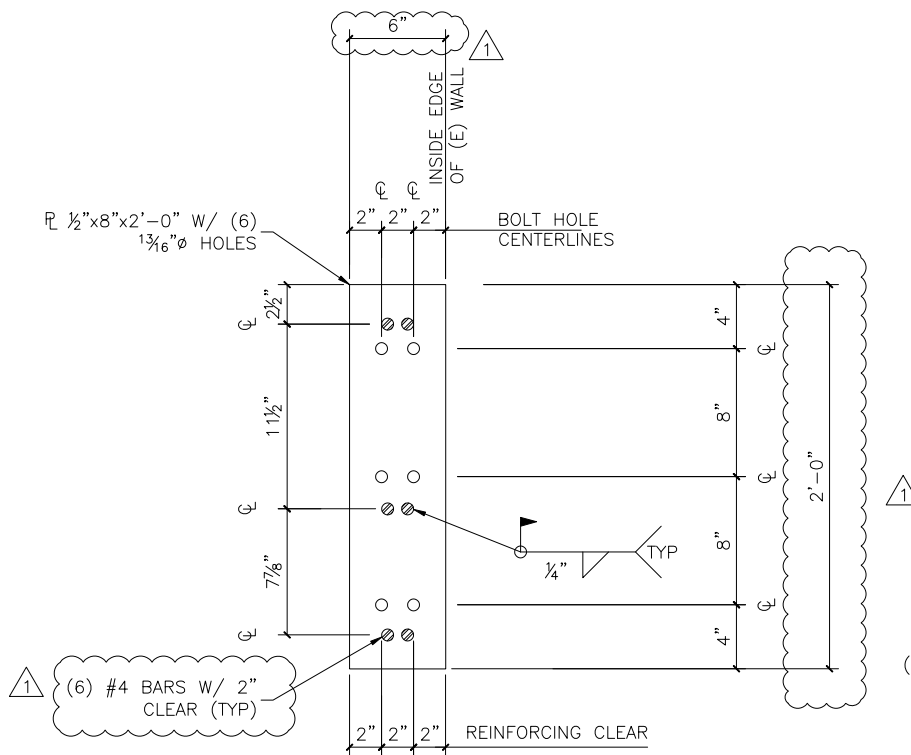
CONTRACTOR TO FIELD VERIFY DIMENSIONS  
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PROPER FIT BASED ON EXISTING CONDITIONS

**PLATE NOTES:**

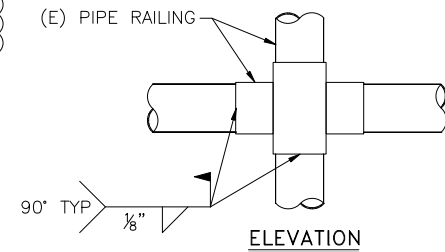
1. CONTRACTOR SHALL ONLY USE THE (3) BOLT HOLES FURTHEST FROM EXISTING WALL EDGE.
2. WALL PLATE #2 SIMILAR TO PLATE #1 BUT DOES NOT HAVE REBAR.

**WELDING NOTES:**

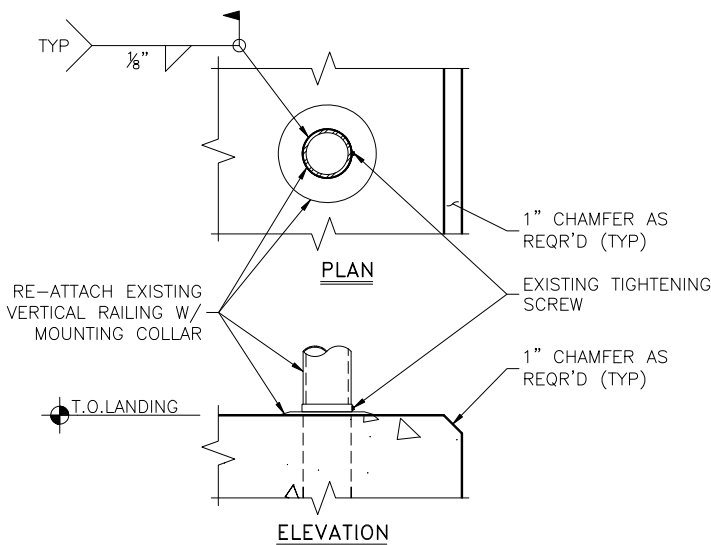
- A. CONTRACTOR SHALL GRIND OFF ALL EXISTING RAILING WELDS & RE-WELD ALL JOINTS @ RAILS, HORIZONTAL & VERTICAL. (90° FULL LENGTH  $\frac{1}{8}$ " FILLET, TYP).
- B. ALL AROUND  $\frac{1}{8}$ " FILLET WELD @ ALL VERTICAL BASE RAILING, (TYP).
- C. CONTRACTOR SHALL APPLY COLD GALVANIZING FOR ALL NEW WELDS PRIOR TO PAINT.



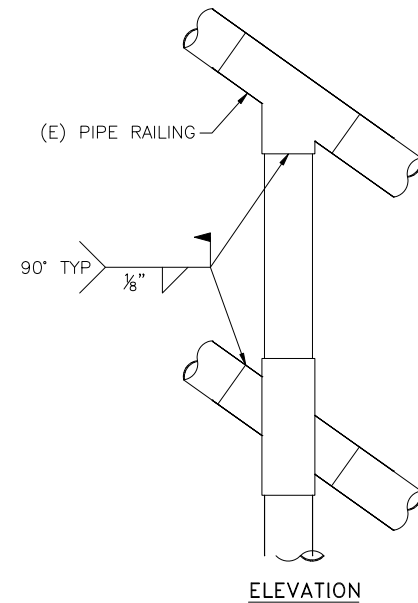
**ENLARGED PLATE #1 DETAIL**  
SCALE: 1"=1'-0"



**ELEVATION**



**WELDED COLLAR TO VERTICAL BASE RAILING DETAIL**  
SCALE: 1 1/2"=1'-0"



**ELEVATION**

**WELDED RAILING DETAIL**  
SCALE: 1 1/2"=1'-0"

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DESIGNED FOR:

**verizon**

DESIGNED BY:

**5 INFRASTRUCTURE**  
PARTNERS

PROJECT NAME:

WY1 MOUNT WASHBURN (ADD. REV 1)

PROJECT ADDRESS:

YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING

SHEET TITLE:

ENLARGED PLATE #1 DETAIL

BY:

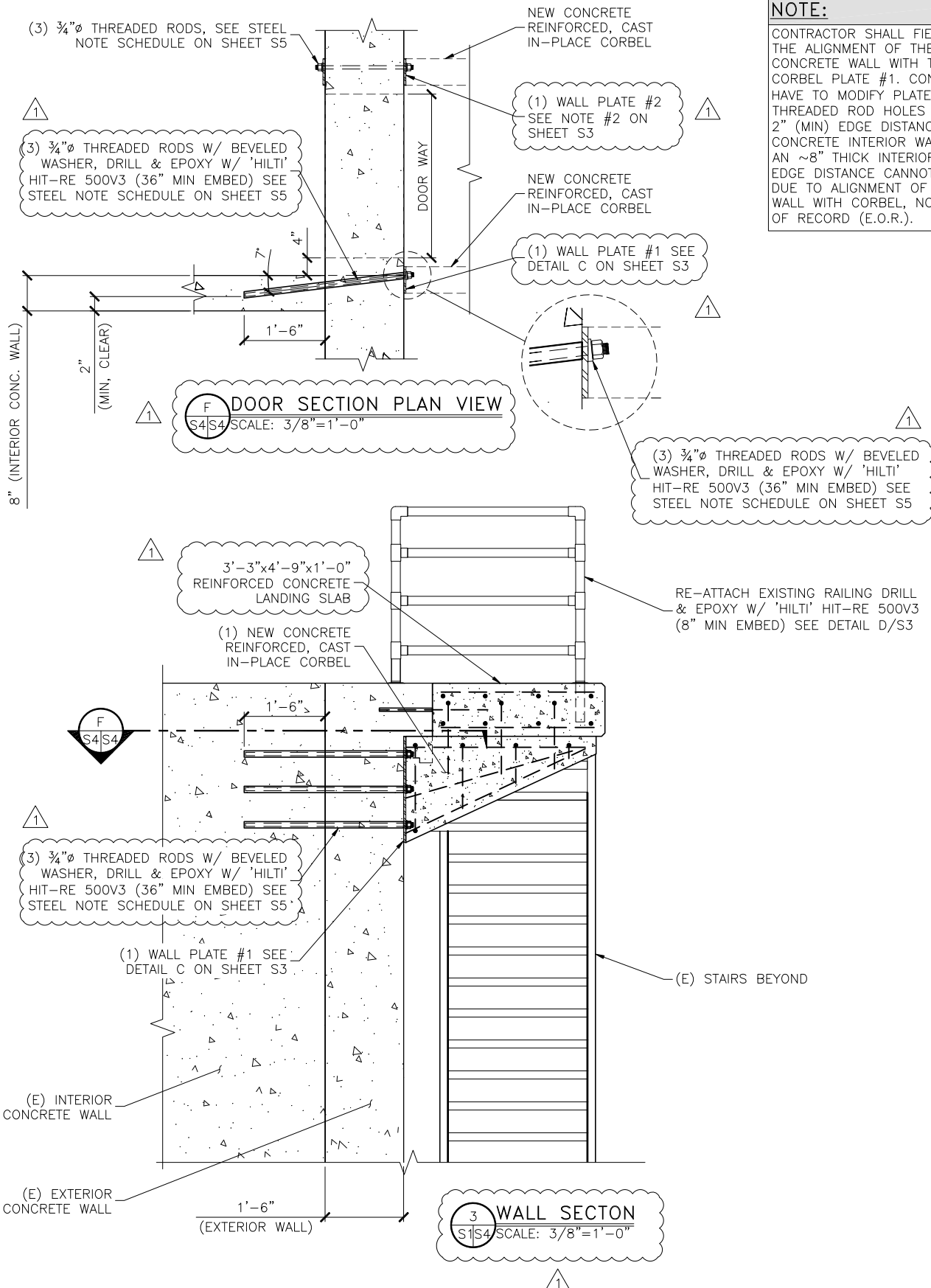
RWB

DATE:

7/21/2020

SHEET NUMBER:

S3



**NOTE:**

CONTRACTOR SHALL FIELD VERIFY THE ALIGNMENT OF THE INTERIOR CONCRETE WALL WITH THE NEW CORBEL PLATE #1. CONTRACTOR MAY HAVE TO MODIFY PLATE #1 THREADED ROD HOLES TO ENSURE 2" (MIN) EDGE DISTANCE INTO (E) CONCRETE INTERIOR WALL. IF EDGE DISTANCE CANNOT BE ACHIEVED DUE TO ALIGNMENT OF INTERIOR WALL WITH CORBEL, NOTIFY ENGINEER OF RECORD (E.O.R.).

DESIGNED FOR:

**verizon**

DESIGNED BY:

**5 INFRASTRUCTURE**  
PARTNERS

PROJECT NAME: WY1 MOUNT WASHBURN (ADD. REV 1)

PROJECT ADDRESS: YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING

SHEET TITLE: INTERIOR WALL CORBEL DETAIL

BY: RWB

DATE:

7/21/2020

SHEET NUMBER:

S4

**STEEL NOTES:**



- ALL STEEL SHALL BE GALVANIZED PER ASTM A123 & CONFORM TO THE FOLLOWING MINIMUM SPECS.:  
 THREADED ROD ASTM F1554 GR55  
 PLATE ASTM 36
- ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM A325 U.N.O. ALL BOLTED CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED NUT-LOCKING DEVICE.
- ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY. WELDING ELECTRODES SHALL BE E70XX.
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND CODES, LATEST EDITION.
- AT HIS OWN DISCRETION, THE CONTRACTOR MAY SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FABRICATION AND/OR ERECTION. TOWERCOM IS ABSOLVED OF ALL LIABILITY ASSOCIATED WITH THE MISINTERPRETATION OF THE CONSTRUCTION DOCUMENTS IF CONTRACTOR CHOOSES NOT TO SUBMIT SHOP DRAWINGS.
- TORCH-CUTTING OF ANY KIND SHALL NOT BE PERMITTED.
- ALL BOLTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

**CONCRETE NOTES:**

- ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE CBC & ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:  
 A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF 4,000 PSI. ((f'y) OF 60,000 PSI)  
 B CEMENT SHALL BE "LOW-ALKALI" TYPE IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.  
 C MAXIMUM WATER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.  
 D CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY. TOLERANCES IN ACCORDANCE WITH ACI 117. COPIES OF CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT.  
 E ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 1½".  
 F MAXIMUM SLUMP: 3" (FOUNDATION, FOOTING, SLAB), 4" (WALL, COLUMN, BEAM)
- FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS-C REQUIREMENTS. IN NO CASE SHALL FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES: ± ¼" VERTICAL, ± 1" HORIZONTAL.
- CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES ¾" U.N.O.
- CONCRETE FINISHING:  
 A FLOORS: CONCRETE FLOOR SLABS SHALL BE FINISHED IN ACCORDANCE WITH ACI 302.1 CHAPTER 8. PROVIDE CLASS 4 FINISH U.N.O. PROVIDE NON-SLIP FINISH FOR EXTERIOR SURFACES.  
 B OTHER SURFACES: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI 301 SECTIONS 5.3, 6.3, AND 7.3. PROVIDE ROUGH FINISH FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FINISH FOR ALL OTHERS, U.N.O.
- A MINIMUM OF ONE (1) SET OF CONCRETE CYLINDERS SHALL BE TAKEN (IF REQUIRED BY SPECIAL INSPECTIONS ON SHEET IN1). EACH SET SHALL CONSIST OF THREE (3) CYLINDERS. ONE (1) SHALL BE TESTED AT 7 DAYS, TWO (2) SHALL BE TESTED AT 28 DAYS. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM C172, C31 AND C39.

**REINFORCING STEEL NOTES:**

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL/HORIZONTAL BARS SHALL BE GRADE 60; TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. ALL REINFORCING STEEL SHALL HAVE 3" (± ¾") OF CONCRETE COVER, U.N.O.
- ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.
- ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 48 BAR DIAMETERS. LAP SPLICES OF DEFORMED BARS IN TENSION ZONES SHALL BE CLASS-B SPLICES. WELDING OF BARS IS NOT PERMITTED.
- AT ALL CORNERS AND WALL INTERSECTIONS, PROVIDE BENT HORIZONTAL BARS TO MATCH THE HORIZONTAL REINFORCING STEEL.
- PROVIDE VERTICAL DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING.
- ACI-APPROVED PLASTIC-COATED BAR CHAIRS OR PRECAST CONCRETE BLOCKS SHALL BE PROVIDED FOR SUPPORT OF ALL GRADE-CAST REINFORCING STEEL & SHALL BE SUFFICIENT IN NUMBER TO PREVENT SAGGING. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
- DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE "STABBED" INTO FRESHLY-POURED CONCRETE.
- AT EXISTING REINFORCED CONCRETE PIERS; CONTRACTOR SHALL USE #5 DOWELS @ SHOWN LOCATIONS DRILL & EPOXY W/ "HILTI" HIT-HY70 500-V3 W/ 12" (MIN) EMBED TO INCORPORATE THE NEW RETAINING WALL/FOOTING.

DESIGNED FOR:	DESIGNED BY:	PROJECT NAME:	WY1 MOUNT WASHBURN (ADD. REV 1)	
		PROJECT ADDRESS:	YELLOWSTONE NATIONAL PARK, PARK COUNTY, WYOMING	
		SHEET TITLE:	NOTES	
		BY: RWB	DATE: 7/21/2020	SHEET NUMBER: