

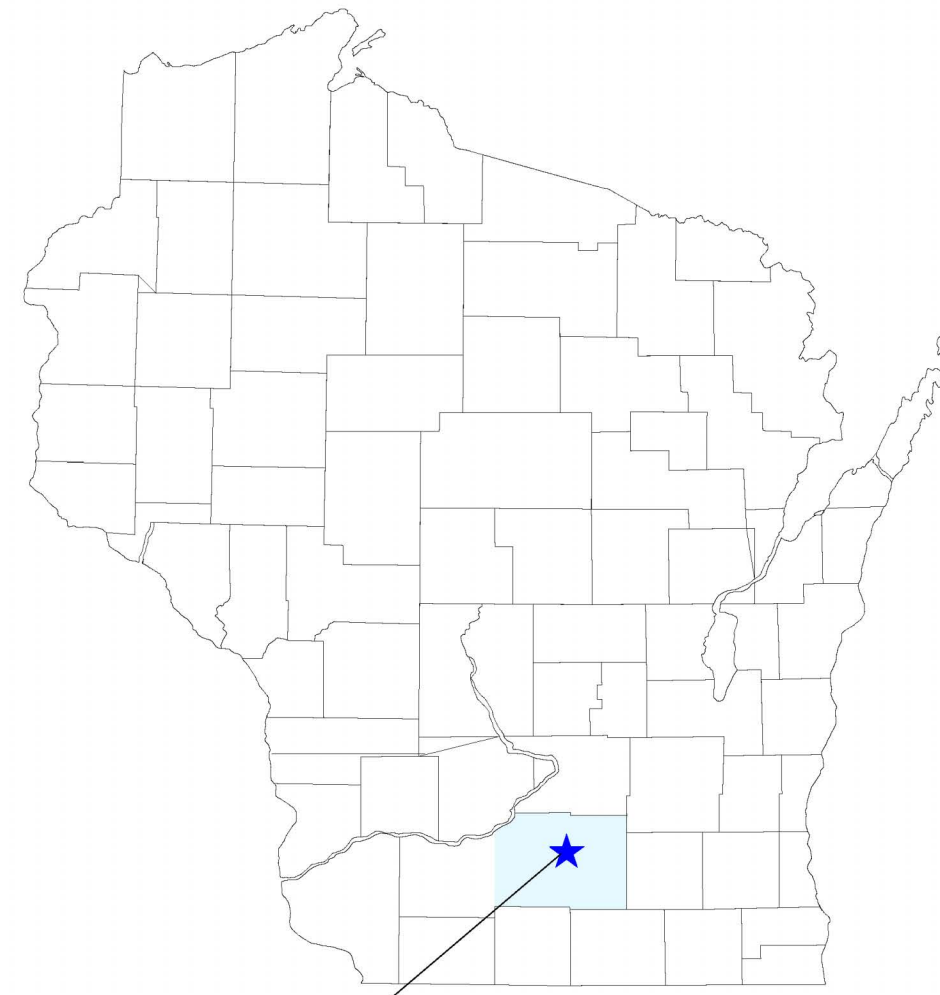
EMERGENCY CALL 911



NORTH



PROJECT XGFG 192006



TRUAX FIELD
MADISON, WI

WISCONSIN AIR NATIONAL GUARD
TRUAX FIELD
AIR NATIONAL GUARD BASE
115TH FIGHTER WING

UPGRADE MAIN GATE BARRIERS

&

REPAIR BOUNDARY FENCE

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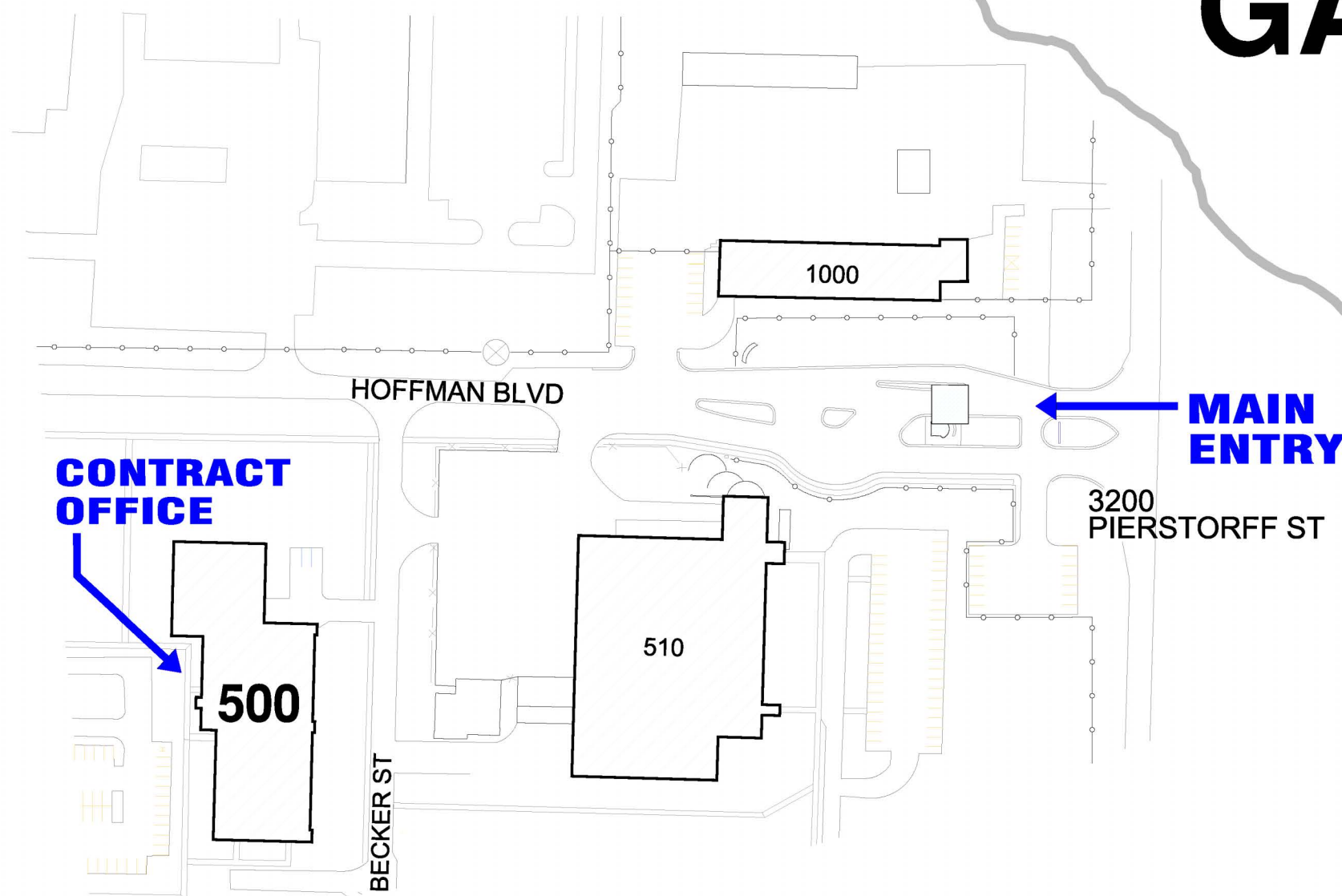
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- 16 — F3 — NEW VEH ANTI-RAM BARRIER CABLE
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IMPORTANT NUMBERS

- 608-245-4548 CONTRACTING OFFICER
- 608-245-4571 BASE ENGINEERING
- 608-245-4530 SECURITY
- 608-245-4561 FIRE
- 608-245-4437 SAFETY



PROJECT LOCATION

115TH FIGHTER WING
TRUAX FIELD AIR NATIONAL GUARD BASE

NORTH

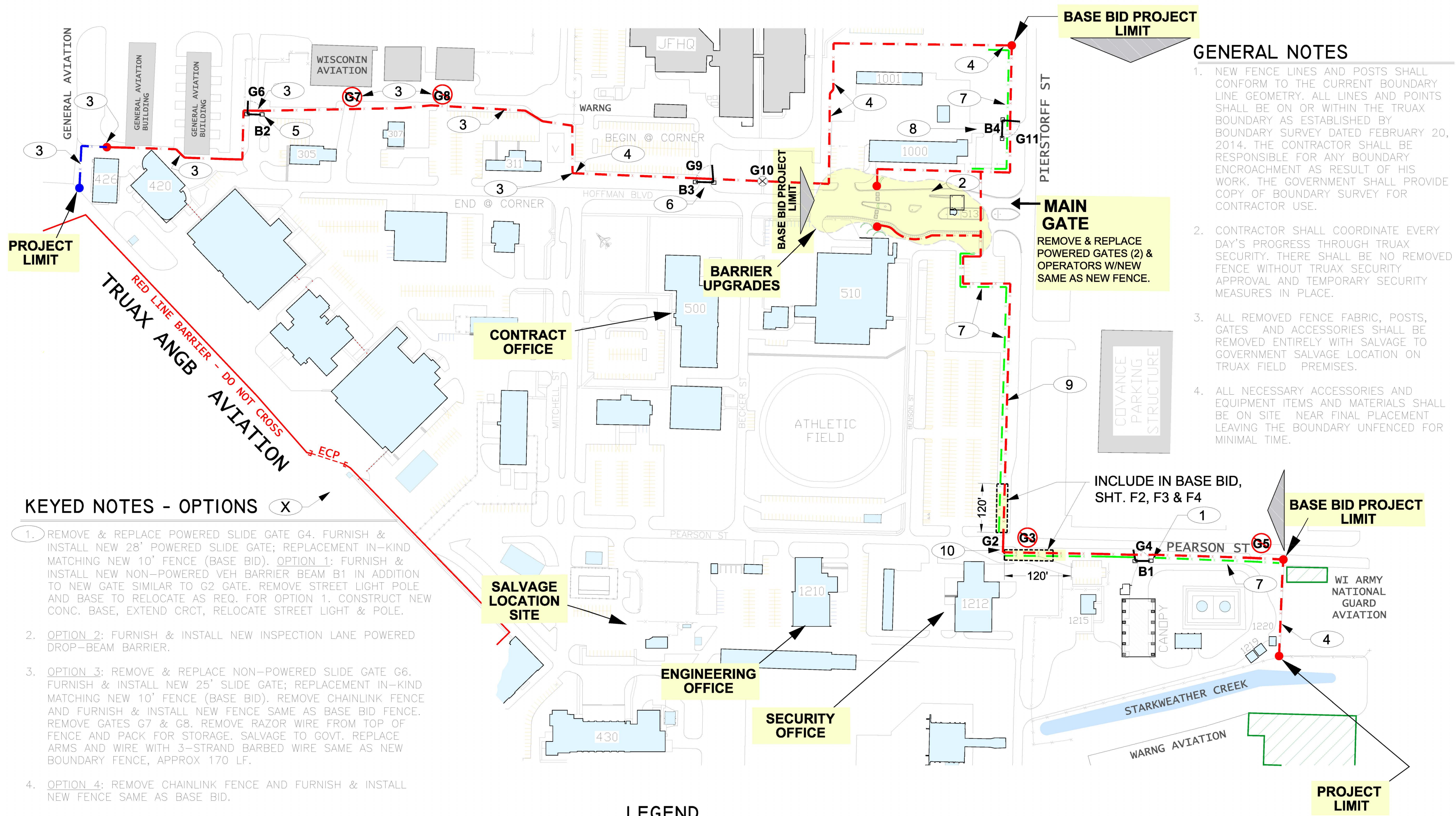


MAY 2020

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T1

SHEET



- ### GENERAL NOTES
1. NEW FENCE LINES AND POSTS SHALL CONFORM TO THE CURRENT BOUNDARY LINE GEOMETRY. ALL LINES AND POINTS SHALL BE ON OR WITHIN THE TRUAX BOUNDARY AS ESTABLISHED BY BOUNDARY SURVEY DATED FEBRUARY 20, 2014. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BOUNDARY ENCROACHMENT AS RESULT OF HIS WORK. THE GOVERNMENT SHALL PROVIDE COPY OF BOUNDARY SURVEY FOR CONTRACTOR USE.
 2. CONTRACTOR SHALL COORDINATE EVERY DAY'S PROGRESS THROUGH TRUAX SECURITY. THERE SHALL BE NO REMOVED FENCE WITHOUT TRUAX SECURITY APPROVAL AND TEMPORARY SECURITY MEASURES IN PLACE.
 3. ALL REMOVED FENCE FABRIC, POSTS, GATES AND ACCESSORIES SHALL BE REMOVED ENTIRELY WITH SALVAGE TO GOVERNMENT SALVAGE LOCATION ON TRUAX FIELD PREMISES.
 4. ALL NECESSARY ACCESSORIES AND EQUIPMENT ITEMS AND MATERIALS SHALL BE ON SITE NEAR FINAL PLACEMENT LEAVING THE BOUNDARY UNFENCED FOR MINIMAL TIME.

KEYED NOTES - OPTIONS

1. REMOVE & REPLACE POWERED SLIDE GATE G4. FURNISH & INSTALL NEW 28' POWERED SLIDE GATE; REPLACEMENT IN-KIND MATCHING NEW 10' FENCE (BASE BID). OPTION 1: FURNISH & INSTALL NEW NON-POWERED VEH BARRIER BEAM B1 IN ADDITION TO NEW GATE SIMILAR TO G2 GATE. REMOVE STREET LIGHT POLE AND BASE TO RELOCATE AS REQ. FOR OPTION 1. CONSTRUCT NEW CONC. BASE, EXTEND CRCT, RELOCATE STREET LIGHT & POLE.
2. OPTION 2: FURNISH & INSTALL NEW INSPECTION LANE POWERED DROP-BEAM BARRIER.
3. OPTION 3: REMOVE & REPLACE NON-POWERED SLIDE GATE G6. FURNISH & INSTALL NEW 25' SLIDE GATE; REPLACEMENT IN-KIND MATCHING NEW 10' FENCE (BASE BID). REMOVE CHAINLINK FENCE AND FURNISH & INSTALL NEW FENCE SAME AS BASE BID FENCE. REMOVE GATES G7 & G8. REMOVE RAZOR WIRE FROM TOP OF FENCE AND PACK FOR STORAGE. SALVAGE TO GOVT. REPLACE ARMS AND WIRE WITH 3-STRAND BARBED WIRE SAME AS NEW BOUNDARY FENCE, APPROX 170 LF.
4. OPTION 4: REMOVE CHAINLINK FENCE AND FURNISH & INSTALL NEW FENCE SAME AS BASE BID.
5. OPTION 5: FURNISH & INSTALL NEW NON-POWERED VEH BARRIER B2 (SIM TO B1).
6. OPTION 6: REMOVE & REPLACE DBL PANEL SWING GATE G9. FURNISH & INSTALL NEW 25' SLIDE GATE MATCHING NEW 10' FENCE (BASE BID). FURNISH & INSTALL NEW NON-POWERED VEH BARRIER B3 (SIM TO B2).
7. OPTION 7: FURNISH & INSTALL NEW ANTI-RAM VEHICLE BARRIER CABLE SYSTEM SAME AS BASE BID.
8. OPTION 8: REMOVE & REPLACE NON-POWERED SLIDE GATE G11. FURNISH & INSTALL NEW 25' SLIDE GATE; REPLACEMENT IN-KIND MATCHING NEW 10' FENCE (BASE BID). FURNISH & INSTALL NEW NON-POWERED VEH BARRIER B4 (SIM TO B2 & B3).
9. CONSTRUCT BRACE PANEL IN CENTER OF RUN, SHT F2.
10. CONSTRUCT 3 NEW BOLLARDS (NOT SHOWN) SPACED EQUAL DISTANCE BETWEEN GATE G2 POST & FENCE CORNER, SIM TO DET. 1/D2.

LEGEND

- ANG FACILITY
- ARNG FACILITY
- NEW 10' HIGH SECURITY CHAINLINK FENCE
- REPAIR TOP OF EXIST. 10' CHAINLINK FENCE
- NEW ANTI-RAM VEHICLE BARRIER CABLE SYSTEM
- NEW NON-POWERED VEHICLE BARRIER BEAM
- START & END OF PROJECT
- EXISTING FENCE GATE
- REMOVE GATE & INSTALL LINE FENCE
- TURNSTILE PED GATE- NO WORK



IMPORTANT NUMBERS

608-245-4548 CONTRACTING OFFICER
 608-245-4571 BASE ENGINEERING
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 608-245-4561 FIRE
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MAY 2020

XGFG 192006
UPGRADE MAIN GATE BARRIERS

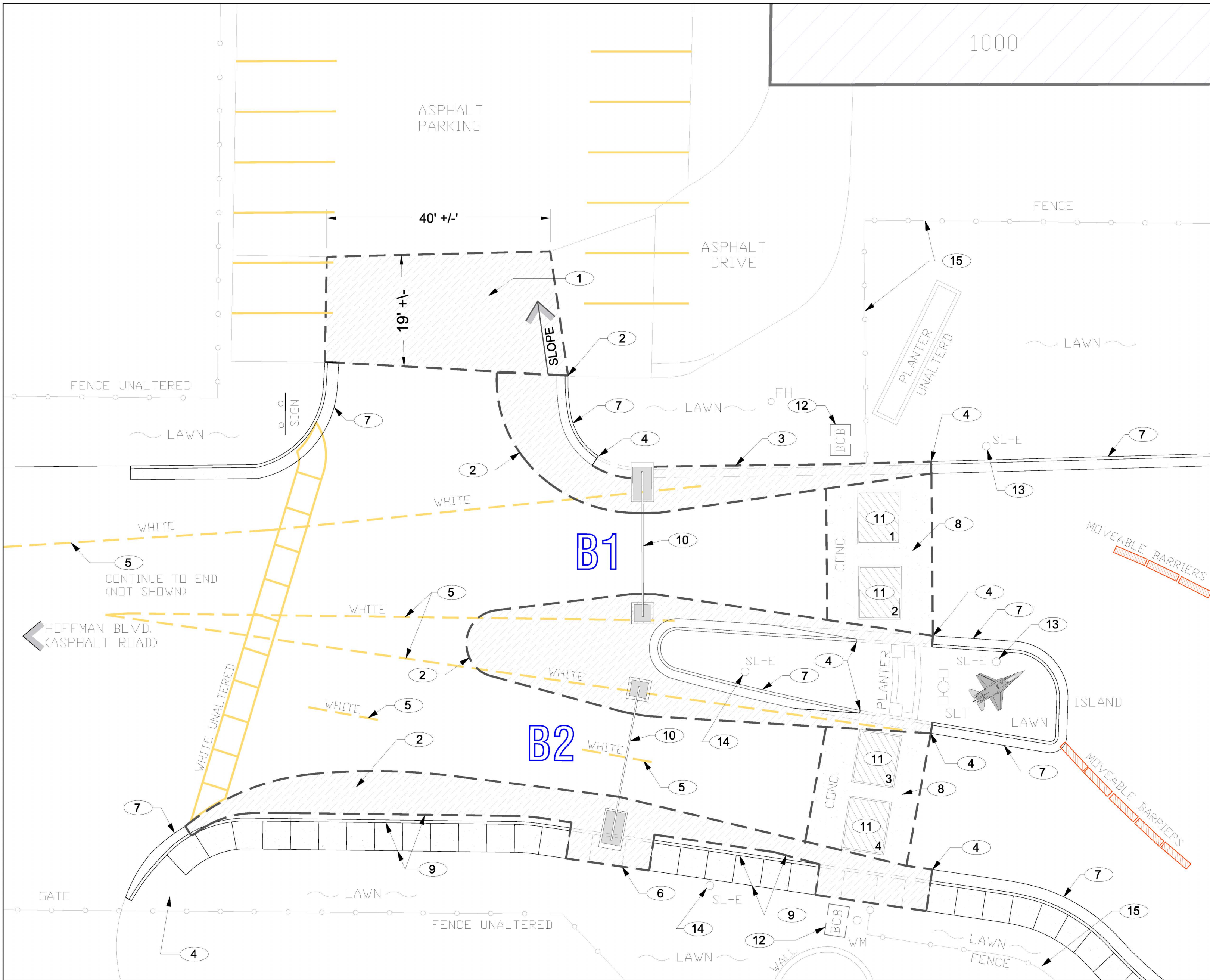
PROJECT LIMITS & OVERVIEW

PAGE 2 of 17

WISCONSIN AIR NATIONAL GUARD
115th FIGHTER WING
TRUAX FIELD AIR NATIONAL GUARD BASE
3110 Mitchel Street
MADISON, WI 53704-2591
608 245-4571

T2

DRAWN BY: DJW

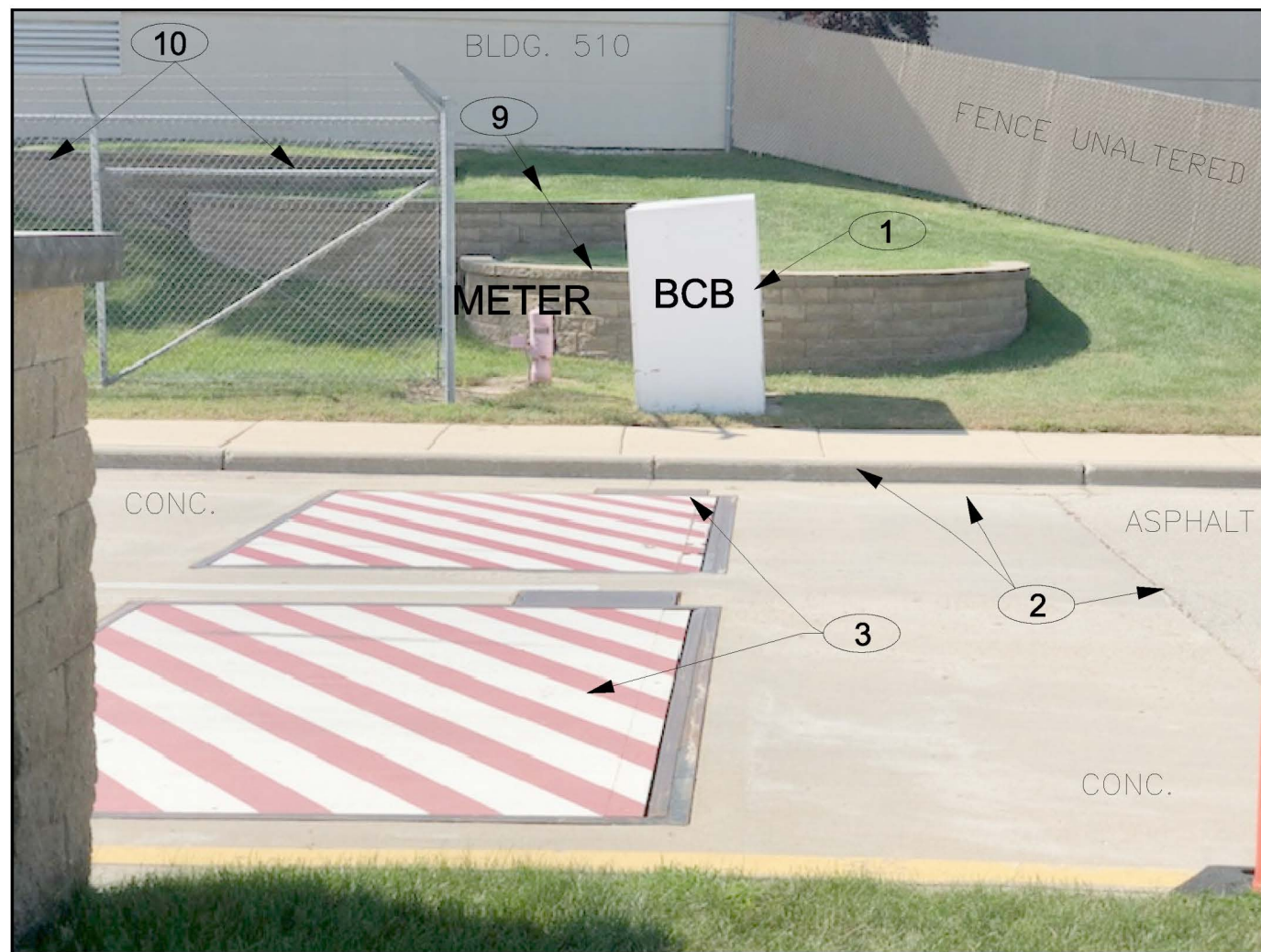


KEYED NOTES

1. NEATLY SAW-CUT & REMOVE ASPHALT (FULL DEPTH) INCLUDING BASE MATERIAL. REPLACE WITH 3.5" THICK NEW ASPHALT IN 2 EQUAL LIFTS OF WEARING COURSE AND FINISH COURSE OVER FINISH GRADED & WELL COMPACTED AGG BASE. DEPTH OF EXISTING ASPHALT IS UNKNOWN.
2. NEATLY SAW-CUT TO LINE OF NEW CONCRETE GUTTER. REMOVE ASPHALT (FULL DEPTH) INCLUDING AGGREGATE & EARTHEN SUBBASE MATERIAL AS REQ. TO CONSTRUCT NEW CURB AS DETAILED. RAISE FIN. ELEV. 6" AND TRANSITION TO EXIST. GRADE.
3. REMOVE ASPHALT (FULL DEPTH) AND CONCRETE CURB & GUTTER.
4. NEATLY SAW-CUT CONCRETE CURB & GUTTER (FULL DEPTH).
5. BLACK-OUT OR REMOVE WHITE PAVEMENT MARKING LINES. PAINT NEW 4" WIDE REFLECTIVE WHITE LINES, SEE SITE RESTORATION SHT. C3.
6. NEATLY SAW-CUT AND REMOVE (FULL DEPTH) CONC./ CURB & GUTTER AND SIDEWALK.
7. EXIST. CONC. CURB & GUTTER SHALL REMAIN.
8. REMOVE EXIST. CONC. & STEEL BARRIERS.
9. EXIST. CONC. CURB AND SIDEWALK TO REMAIN. SAW-CUT AND REMOVE HALF OF THE GUTTER (FULL DEPTH) ALONG LENGTH.
10. NEW POWERED DROP BEAM BARRIER.
11. REMOVE IN-PAVMENT DENIAL BARRIER. REMOVE STEEL COVER, ALL INTERNAL PARTS, ATTACHMENTS, PIPE, TUBING, AND LINES WITHIN DENIAL BARRIER (4 TOTAL).
12. REMOVE BARRIER CONTROL BOX AND CONTENTS TO BELOW GRADE, INCLUDING HYDRAULIC PUMP & RESERVOIR, ELECTRIC MOTOR, VEGETABLE BASE HYDRAULIC FLUID, CONDUITS, WIRES, PIPING & CONCRETE. FURNISH & INSTALL NEW BOTTOMLESS POLYMER CONCRETE ASSEMBLY BOX AND SCREW-DOWN COVER (GREEN) FLUSH IN FINISH GRADE OVER CONDUCTORS AND CONDUITS. RESTORE SITE TO LAWN. CONNECT TO EXISTING CONDUITS WITH NEW CONDUIT AND EXTEND TO NEW LOCATIONS.
13. REMOVE TRAFFIC LIGHTS (2). CONCRETE BASE SHALL REMAIN. CONDUCTORS MAY BE REUSED IF THEIR SIZE IS SUITABLE AND THEY ARE IN GOOD CONDITION.
14. REMOVE TRAFFIC LIGHTS (2) TO BELOW GRADE INCLUDING CONDUITS, CONDUCTORS, & CONCRETE STRUCTURE. RESTORE SITE TO LAWN.
15. REMOVE & REPLACE CHAINLINK FENCE (CLF), SEE SHT. T2, F1 & D2.

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 MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	SITE REMOVAL PLAN - BARRIERS <small>PAGE 3 of 17</small>
<small>WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571</small>	
<small>DRAWN BY: DJW</small>	C1



1 EXIST. BARRIER 3 & 4
EXIST. BARRIER 1 & 2, SIMILAR



2 BARRIER CONTROL BOX (BCB)
MOTOR LINES, RES & VALVES

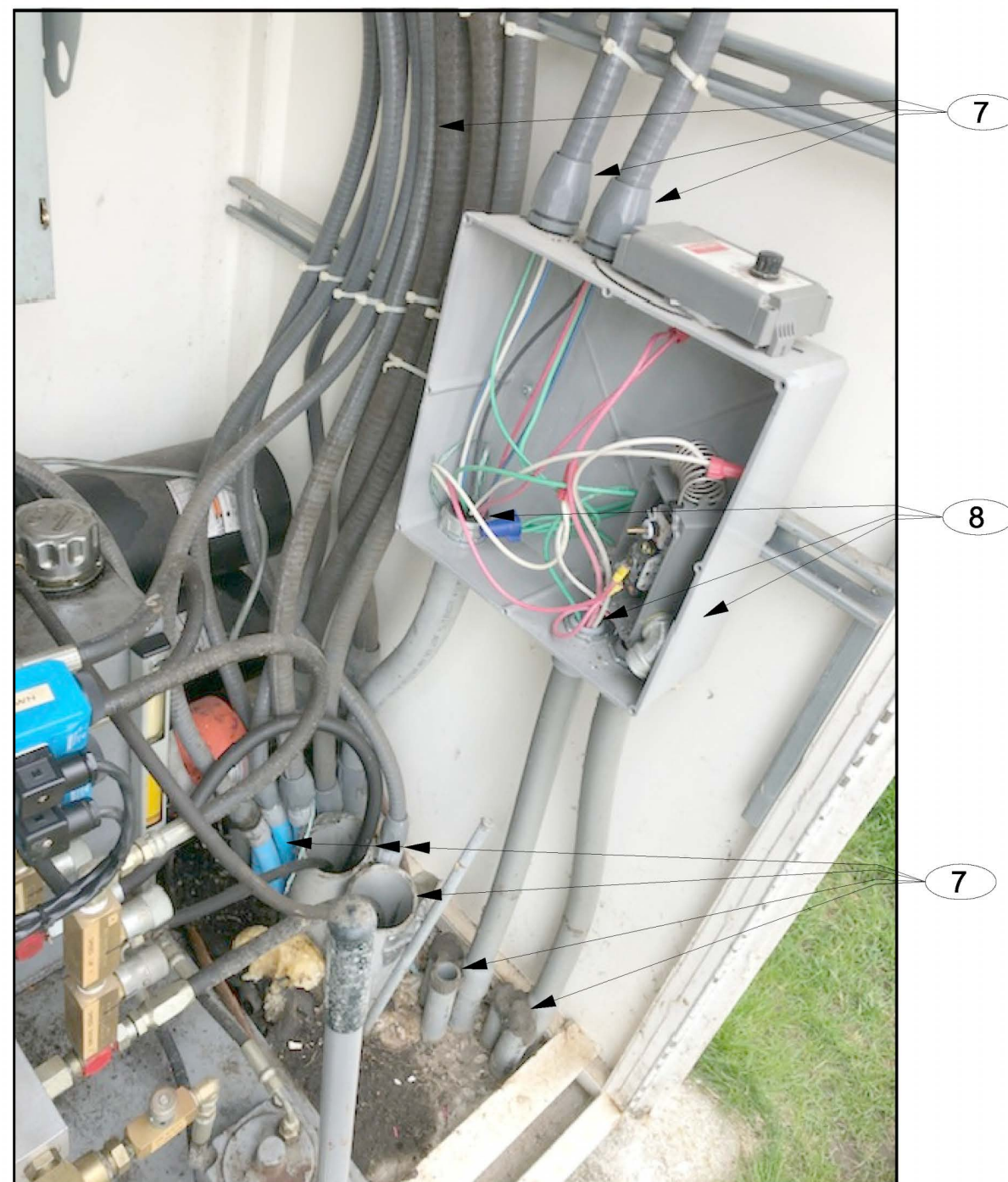


3 EXIST. BCB CONTROLS & DISCONNECT
HYDRAULIC LINES, RES & VALVES

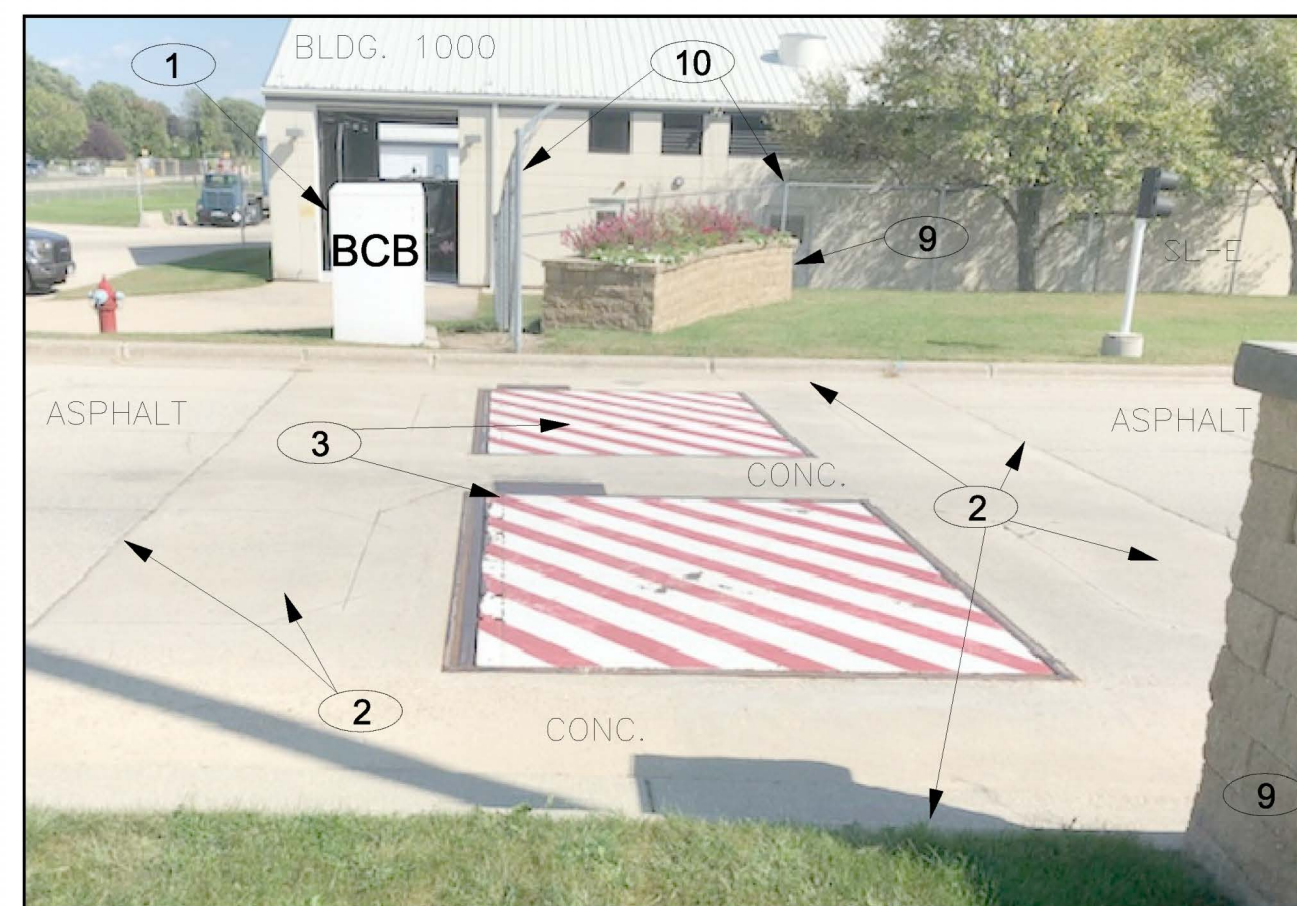
A
B
C
D
4

KEYED NOTES X

1. REMOVE STEEL BCB (BARRIER CONTROL BOXES). SALVAGE TO TRUAX METAL LOCATION. SEE NOTE 12 SHEET C1 & SALVAGE SITE T2.
2. REMOVE CONCRETE, CURB, GUTTER AND ASPHALT, SHT. C1.
3. REMOVE STEEL JUNCTION BOXES & STL IN-PAVEMENT BARRIERS. FILL & RESTORE AREA WITH NOT LESS-THAN 12" COMPACTED AGGREGATE #2 BASE AND 3.5" ASPHALT, SEE NOTE 11 SHEET C1 & NEW WORK SHEET C2.
4. REMOVE AND DISPOSE OF (ALL); HYDRAULIC RESERVOIR (A), FLUID, VEGETABLE OIL (B), HOSES (C), FITTINGS (D), ELECTRIC MOTOR (E) AND STEEL STRUCTURE (F).
5. REMOVE AND DISPOSE OF (ALL); LOW VOLTAGE CONTROLS (A), LINE VOLTAGE DISCONNECT (B), CONDUCTORS AND CONDUITS VIA RECYCLING METHODS.
6. REMOVE AND RECYCLE SLAVE CONTROL PANEL & CONDUCTORS.
7. CUT-OFF, PLUG AND ABANDON ALL UNUSED CONDUITS BELOW INVERT GRADE OF NEW HANDHOLE. SEE NOTE 12 SHEET C1.
8. REMOVE AND DISPOSE OF POWER JUNCTION BOX AND ALL UNUSED CONDUITS, CONDUCTORS AND CONTROLS. NEW "MASTER CONTROL PANEL" IN GUARD SHACK BLDG. 513 (NOT SHOWN) SHALL BE RECONFIGURED FOR NEW CONTROLS OF NEW BARRIERS B1, B2 & B3. NOTE B3 SHALL BE PLANNED IN THE BASE BID BUT NOT CONFIGURED UNLESS THE OPTION IS INCLUDED.
9. LANDSCAPE & WALL UNALTERED.
10. FENCE TO BE REPLACED (REFER TO SHEET T2).



4 BARRIER CONTROL BOX (BCB)

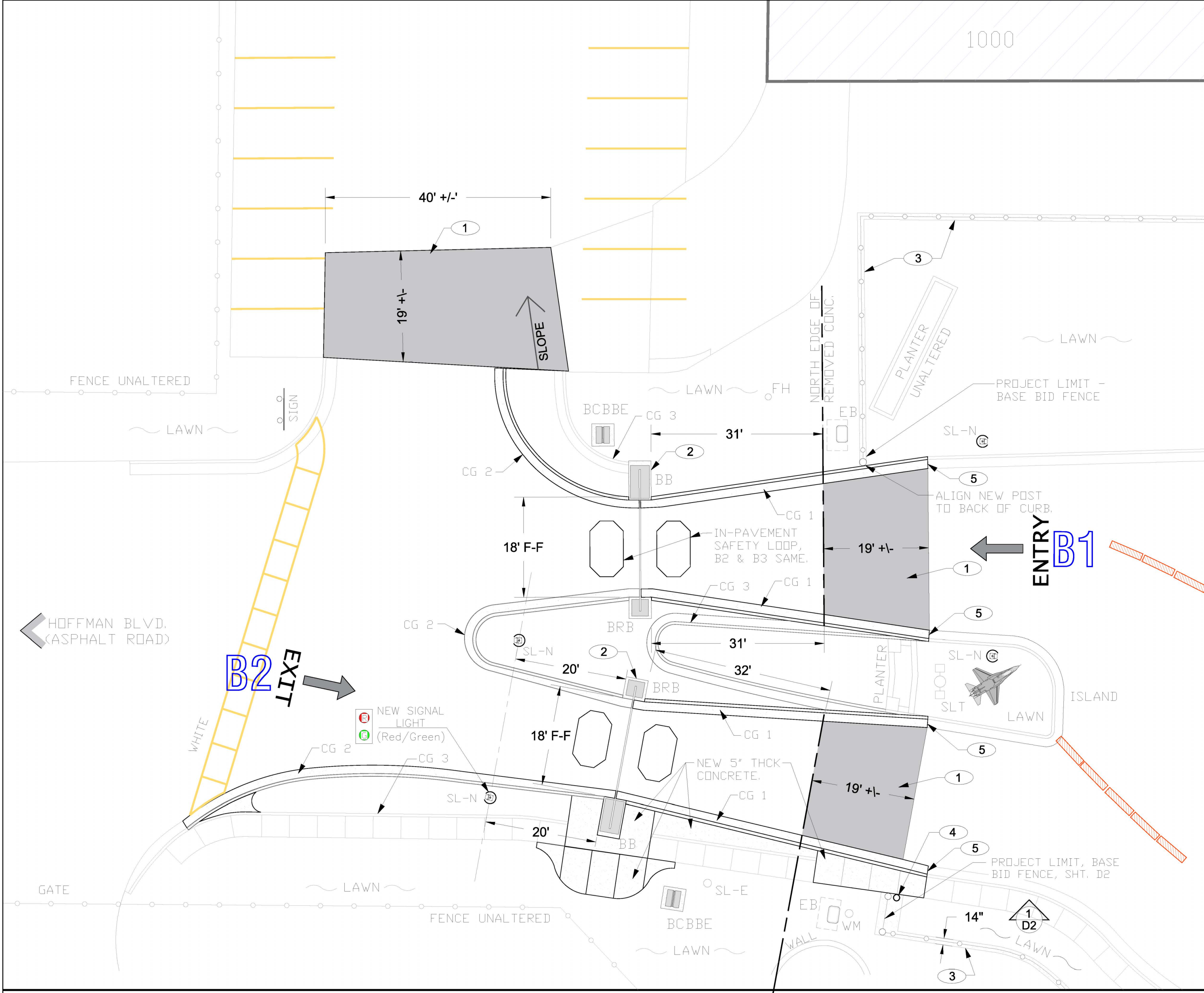


5 EXIST. BARRIER 1 & 2
EXIST. BARRIER 3 & 4, SIMILAR



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 608-245-4561 FIRE
 608-245-4437 SAFETY

 DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA	MAY 2020 XGFG 192006 UPGRADE MAIN GATE BARRIERS
	BARRIER CONTROL BOX REMOVAL PLAN PAGE 4 of 17
WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571	
DRAWN BY: DJW	C1a



KEYED NOTES

1. FURNISH & INSTALL NEW 3.5" THICK ASPHALT IN 2 EQUAL LIFTS OF WEARING COURSE AND FINISH COURSE OVER WELL PREPARED AGG BASE. DEPTH OF EXISTING ASPHALT IS UNKNOWN. FURNISH NEW NO. 2 AGG. BASE 10" MIN. ROUTE & SEAL NEW @ ABUTTING EXISTING PAVEMENT ALL AROUND.
2. FURNISH COMPLETE UNIT ASSEMBLY; ACTIVE ANTI-RAM RATED POWERED DROP ARM BARRIER MEETING OR EXCEEDING ASTM F2656 IMPACT CONDITION DESIGNATION M30. RSSI 3000 OR OTHER APPROVED PRODUCT. INSTALL IN ACCORDANCE WITH MFR. SPECIFICATIONS. NORMALLY IN OPEN (UP) POSITION. SEE SHT C4.
3. FURNISH & INSTALL NEW 14"W X 4" THK CONCRETE MOW STRIP CONTINUOUS UNDER NEW FENCE BOTH BASE BID AND FOR OPTIONAL FENCE RUNS WHEN OPTIONS ARE INCLUDED, SEE SHT T2.
4. FURNISH & INSTALL NEW CHAIN-LINK FENCE TERMINAL END FURNISH & INSTALL NEW 8" DIA. HOT-DIPPED GALV. STL PIPE BOLLARD W/ GROUT FILL & YELLOW PLASTIC BOLLARD COVER W/ DBL INSET REFLECTOR BANDS, BASE BID (SHT T2, & D2).
5. CONSTRUCT SMOOTH GRADUAL SLOPING TRANSITION FROM NEW CG-1 CURB & GUTTER TO ABUTTING EXISTING CG-2 CURB & GUTTER.

GENERAL NOTES


1. CONTRACTOR SHALL EMPLOY LICENSED LAND SURVEYOR TO DETERMINE HORIZONTAL AND VERTICAL CONTROL. ALL SURVEY CONTROL DATA, SITE LAYOUT MAP AND FINAL LAYOUT SHALL BE PROVIDED TO THE GOVT FOR APPROVAL PRIOR TO NEW WORK AND "AS-BUILT" SURVEY PROVIDED WITH PROJECT CLOSEOUT.

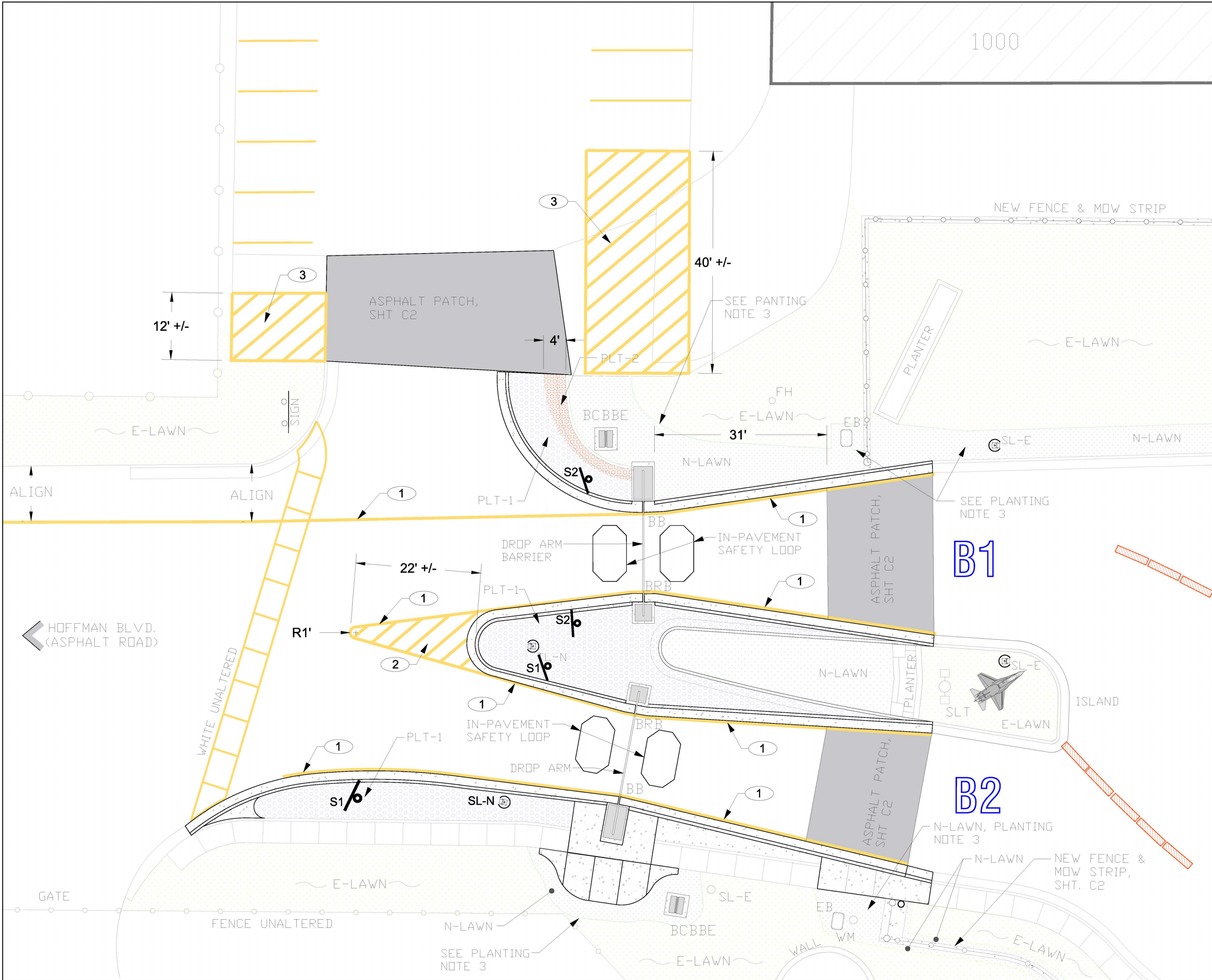
ABBREVIATIONS:

- | | |
|---|--|
| BB: NEW BEAM BUTTRESS | EB: NEW ELECTRICAL BOX, IN-GROUND |
| BRB: BEAM RECEIVING BUTTRESS | E-LAWN: EXISTING LAWN |
| BCBBE: BEAM CONTROL & BACKUP BATTERY ENCLOSURES | SLT: STREET LIGHT POLE - EXISTING |
| CG 1: NEW CONC. CURB & GUTTER, DET 1 | N-LAWN: NEW LAWN |
| CG 2: NEW CONC. CURB & GUTTER, DET 2 | SL-N: SIGNAL LIGHT - NEW (4 REQ.) |
| CG 3: EXIST. CONC. CURB & GUTTER, DET 3 | SL-E: SIGNAL LIGHT - EXISTING REMOVE NOTES 13 & 14 SHT. C1 |
| CG 4: EXIST. CONC. CURB & GUTTER, DET 4 | WM: WATER METER - EXISTING |
| FH: FIRE HYDRANT-EXISTING | |

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 DRAWN BY: DJW	MAY 2020 XGFG 192006 UPGRADE MAIN GATE BARRIERS
	<p align="center">PROPOSED SITE LAYOUT</p> <p align="right">PAGE 5 of 17</p> <p align="center"> WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571 </p> <p align="right">C2</p>



KEYED NOTES (X)

1. FURNISH & INSTALL NEW 4" WHITE PAVEMENT MARKING.
2. FURNISH & INSTALL NEW 4" WHITE STRIATED PAVEMENT MARKING @ 45° - 3' SPACING.
3. FURNISH & INSTALL NEW 4" YELLOW STRIATED (@45° - 4' SPACING) BOX PAVEMENT MARKING.

PLANTING NOTES

1. N-LAWN: NEW LAWN RESTORATION. FURNISH AND INSTALL TOPSOIL NOT LESS THAN 4" DEPTH AND IN QUANTITY AS REQUIRED TO FILL AND RESTORE DISTURBED AREAS. BLEND INTO GRADE OF EXISTING LAWN. BROADCAST SPREAD NEW GRASS SEED. THATCH AND AERATE EXISTING ADJACENT AREA & BLEND IN OVER-SEED. COVER ENTIRE AREA WITH MULCH MAT. ALL NEW GRASS SEED SHALL BE PEARL'S PREMIUM (WWW.PEARLSPREMIUM.COM) FOR FULL SUN, OR OTHER PRODUCT APPROVED BY GOVERNMENT. CONTRACTOR SHALL PROVIDE SUFFICIENT HOSES, SPRINKLERS & TIMERS TO KEEP SEEDED AREAS WELL MOISTENED UNTIL HEALTHY GROWTH & MOW LAWN MINIMUM ONE TIME TO 3" HEIGHT.
2. E-LAWN: NO ADDITIONAL WORK REQUIRED EXCEPT AS DISTURBED BY CONTRACTOR'S OPERATION. ALL LAWN AREAS THAT ARE DISTURBED SHALL BE TREATED AS N-LAWN ABOVE.
3. LINE DEPICTS AVERAGE AREA AND IS NOT INTENDED AS A SPECIFIC DEFINITIVE EDGE. ALL N-LAWN AREAS ARE NON-SPECIFIC AND DEPEND UPON CONTRACTORS OPERATION IN PERFORMING THE WORK WITH REGARD TO SITE RESTORATION. CONTRACTOR SHALL BLEND N-LAWN INTO E-LAWN.
4. PLT-1: FURNISH POTTED "MOSS PLOX." A MIX OF COLORS IS OKAY BUT PREDOMINANT COLOR SHALL BE PURPLE WITH PINK OR WHITE MIXED RANDOMLY. GROUND COVER PLANTS SPACED NOT MORE THAN 15" APART IN EACH DIRECTION. COMPLY WITH NURSERY INSTRUCTIONS FOR PLANTING AND CARE UNTIL ESTABLISHED GROWTH. WATER AND FURNISH & INSTALL NOT-LESS-THAN, 2" THK BED OF RED SHREDDED BARK MULCH THROUGHOUT.
5. PLT-2: FURNISH POTTED "CHEDDAR PINK" GROUND COVER PLANTS SPACED NOT MORE THAN 12" APART IN EACH DIRECTION. COMPLY WITH NURSERY INSTRUCTIONS FOR PLANTING AND CARE UNTIL ESTABLISHED GROWTH. WATER AND FURNISH & INSTALL, NOT LESS THAN, 2" RED SHREDDED BARK MULCH SAME AS PLT-1.

ABBREVIATIONS:

- | | |
|--|-----------------------------------|
| BB: NEW BEAM BUTTRESS | E-LAWN: EXISTING LAWN |
| BRB: BEAM RECEIVING BUTTRESS | EB: ELECTRICAL BOX |
| BCBBE: BEAM CONTROL & BACKUP BATTERY ENCLOSURE | SLT: LIGHT POLE - EXISTING |
| CG 1: NEW CONC. CURB & GUTTER, DET 1 | N-LAWN: NEW LAWN |
| CG 2: NEW CONC. CURB & GUTTER, DET 2 | S1: "EXIT" SIGN |
| CG 3: EXIST. CONC. CURB & GUTTER, DET 3 | S2: "DO NOT ENTER" SIGN |
| CG 4: EXIST. CONC. CURB & GUTTER, DET 4 | SL-N: SIGNAL LIGHT - NEW (4 REQ.) |
| FH: FIRE HYDRANT-EXISTING | SL-E: SIGNAL LIGHT - EXISTING |
| | WM: WATER METER - EXISTING |



S1 (DIRECTIONAL)
24" X 24" STANDARD BLACK & WHITE RELECTORIZED SIGN, TYP.

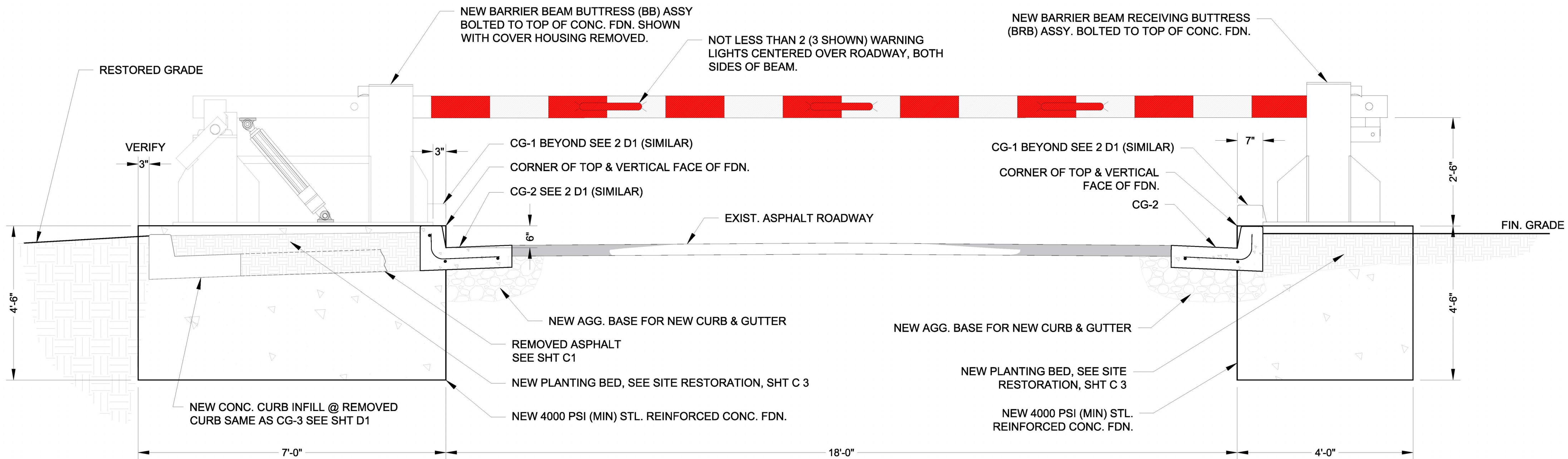
S2
24" X 24" STANDARD RED & WHITE RELECTORIZED SIGN, TYP.

NOTE: FURNISH & INSTALL SIGNS ON GREEN CHANNEL STL SIGN POST, TYPICAL.

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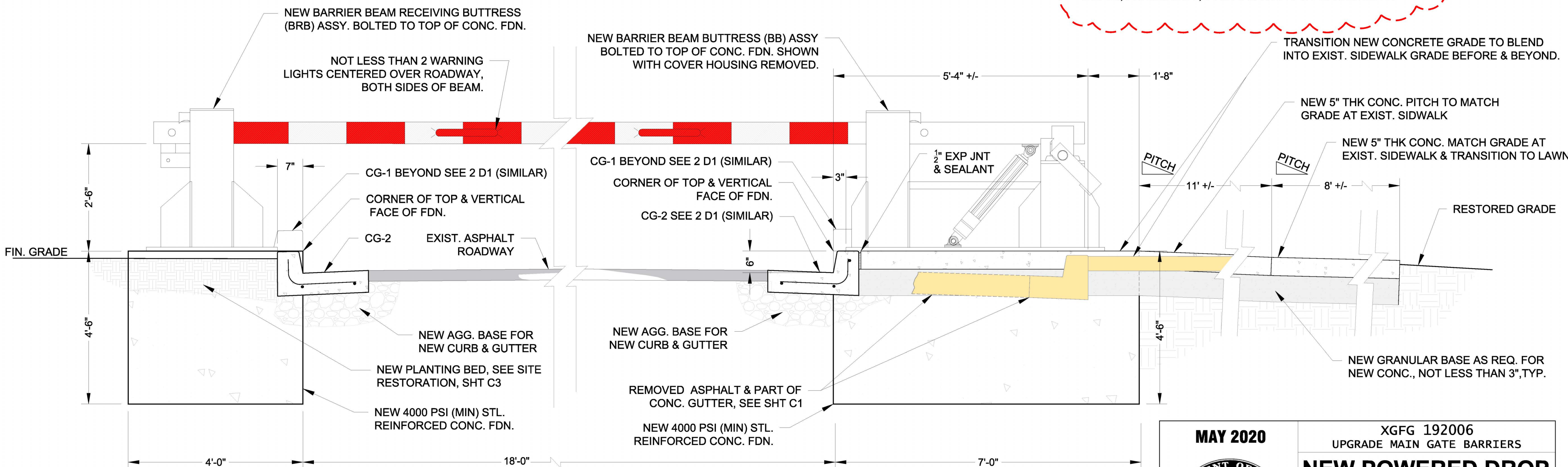
	MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	SITE RESTORATION - BARRIERS	
	WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571	

C3




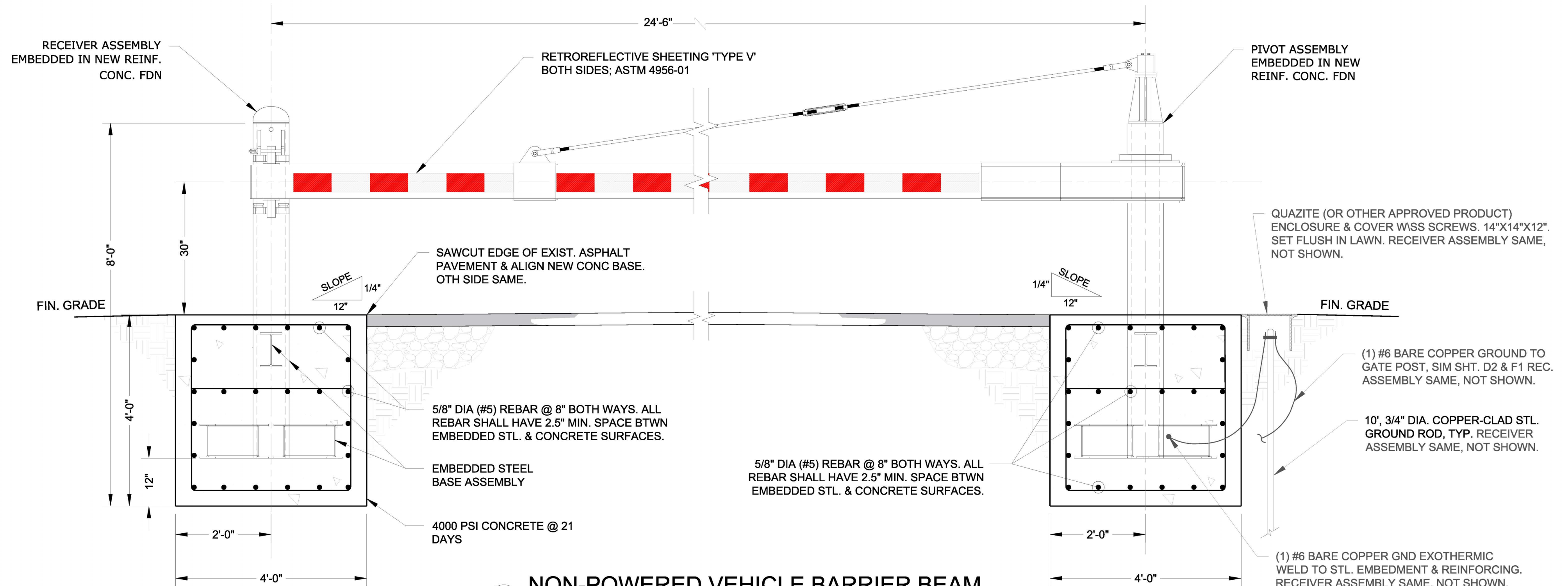
B1 1 POWERED DROP-BEAM BARRIER ASSY CROSS SECTION

NOTE: DIMENSION BETWEEN FOUNDATIONS IS CRITICAL FOR EXACT MEASUREMENT OF THE BEAM. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & SITE CONDITIONS FOR BEAM, ASSEMBLY, FABRICATION & PLACEMENT.



B2 2 POWERED DROP-BEAM BARRIER ASSY CROSS SECTION

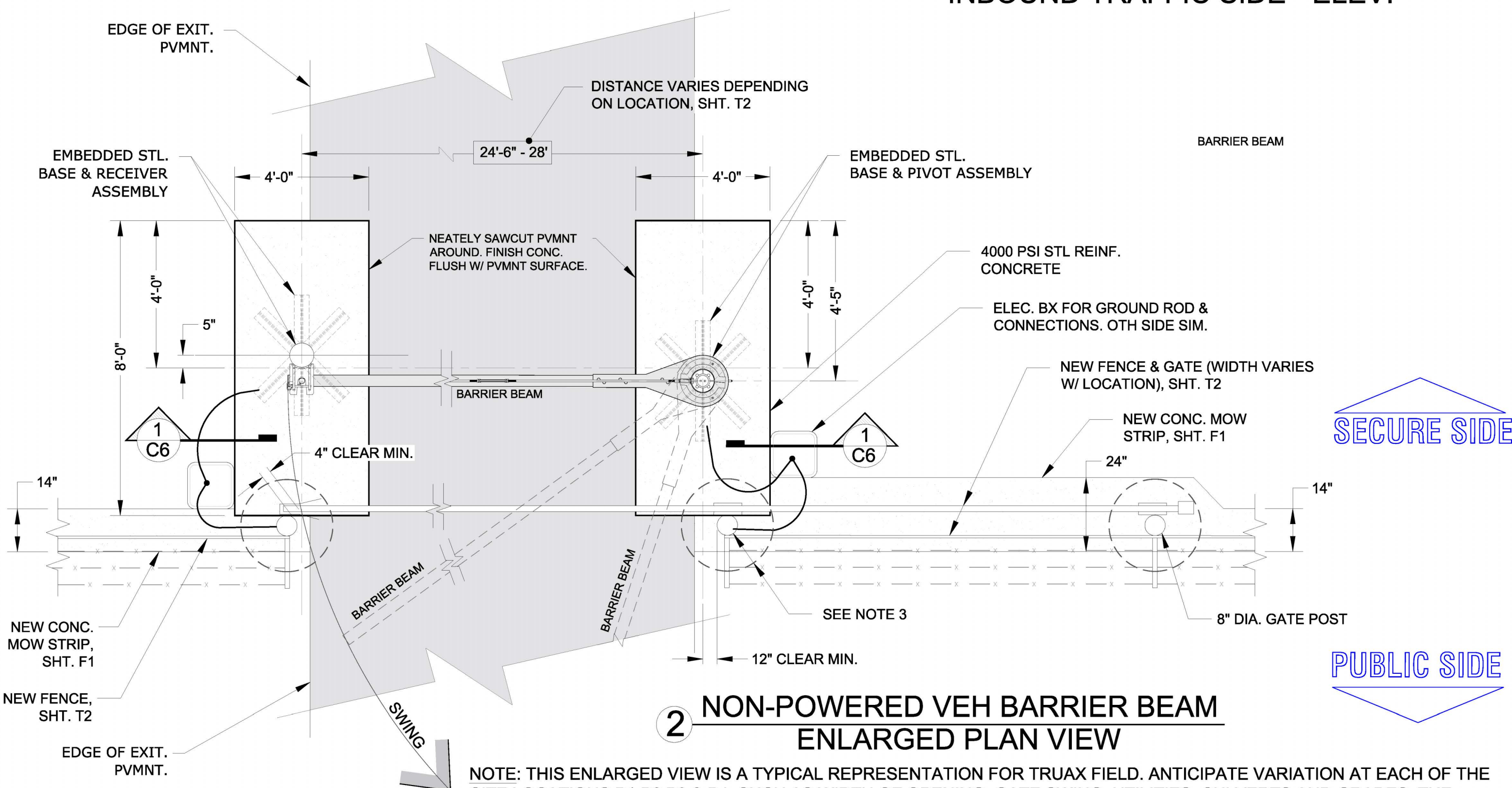
 MAY 2020	XFGG 192006 UPGRADE MAIN GATE BARRIERS
	NEW POWERED DROP BEAM BARRIER PAGE 7 of 17
WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608.245-4571	
DRAWN BY: DJW	C4



1 NON-POWERED VEHICLE BARRIER BEAM INBOUND TRAFFIC SIDE - ELEV.

NOTES:

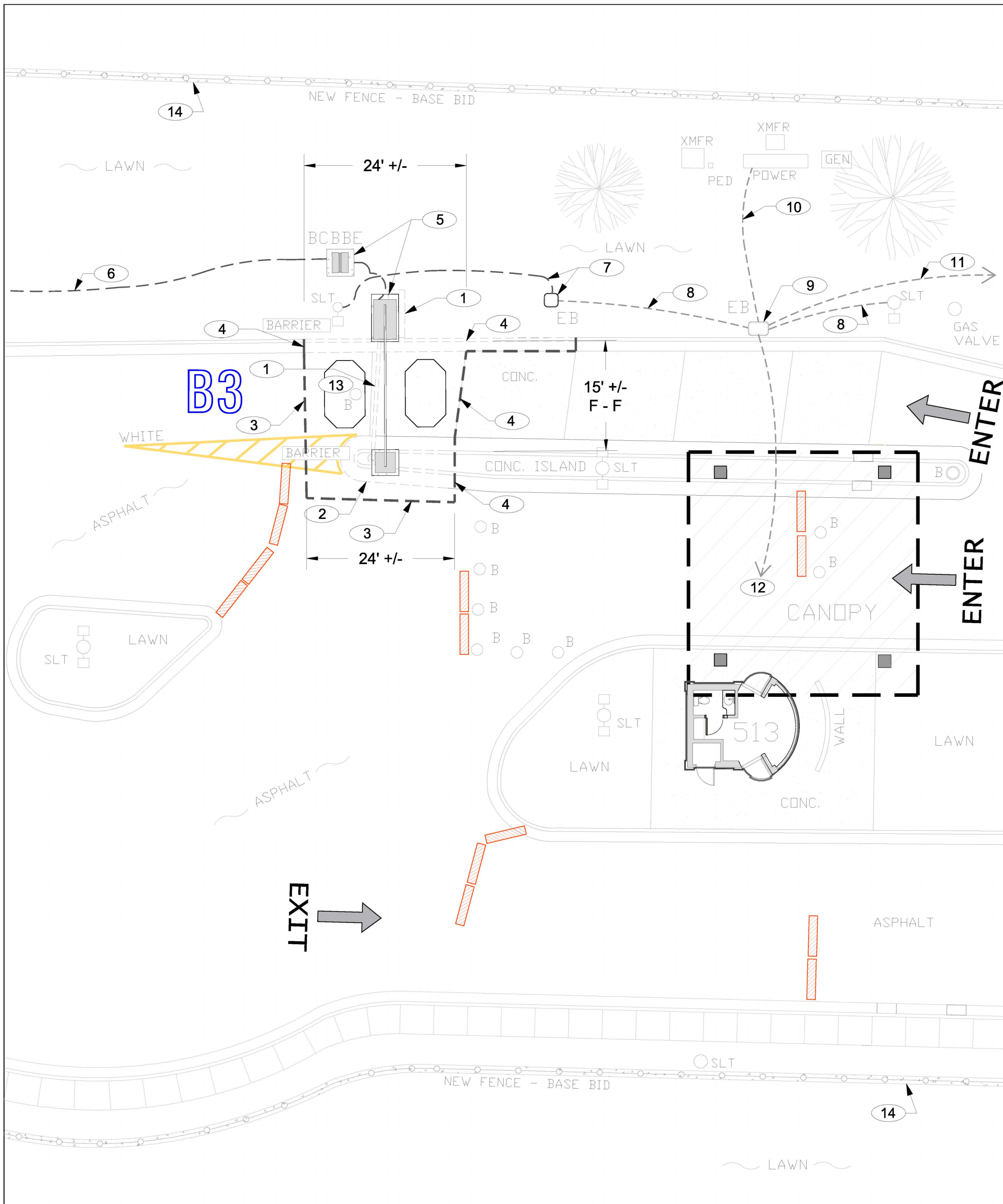
1. NEW BEAM ASSEMBLY SHOWN IS BASED ON NASATKA NMSBXII-HOR CRASH BEAM, WWW.NASATKA.COM AND IS OBSERVABLE AT OTHER LOCATIONS ON TRUAX FIELD. PROVIDE THE SAME OR SIMILAR PRODUCT AS APPROVED BY THE GOVERNMENT. COMPLY WITH MFR. REQUIREMENTS FOR INSTALLATION INCLUDING CONCRETE PLACEMENT & DESIGN. THE CONCRETE FOUNDATION DESIGN SHOWN IS THE MINIMUM REQUIRED BASED ON VEHICLE CRASH PROTECTION CAPABILITY.
2. ORIENTATION OF SWING DEPENDS ON LOCATION (SHT. T2). THE BEAM SWINGS THROUGH THE FENCE GATE OPENING & SHALL NOT BE IMPEDED BY THE GATE POSTS OR OTHER OBSTACLES & CANNOT PROTRUDE INTO TRAVELWAYS BEYOND. COORDINATE WITH FENCE INSTALLER.
3. CONSTRUCT NEW GATE POST FOUNDATION SIMILAR TO BOLLARD DETAIL (SEE SHT. D2). EXCEPTIONS: (1) WHERE THE VEHICLE BEAM OPTION IS NOT INCLUDED, CONSTRUCT 36" CYLINDRICAL FDN WITH REINFORCING BASKET AS DETAILED; (2) WHERE THE POST ABUTTS BEAM PIVOT AND RECEIVER FDN(S); POST FDN SHALL BE SEMI-CYLINDRICAL & CONNECTED TO BEAM FDN(S) W/ NOT LESS THAN 8 (FOUR PAIR) BENT #6 REBAR TIES EQUALLY SPACED VERT. COORDINATE W/FENCE INSTALLER FOR PRE-PLACEMENT OF REBAR.



2 NON-POWERED VEH BARRIER BEAM ENLARGED PLAN VIEW

NOTE: THIS ENLARGED VIEW IS A TYPICAL REPRESENTATION FOR TRUAX FIELD. ANTICIPATE VARIATION AT EACH OF THE SITE LOCATIONS B1,B2,B3 & B4, SUCH AS WIDTH OF OPENING, GATE SWING, UTILITIES, CULVERTS AND GRADES. THE CONTRACTOR SHALL INVESTIGATE, VERIFY AND MAKE ADJUSTMENTS FOR SPECIFIC REQUIREMENTS AT EACH LOCATION PRIOR TO ORDERING MATERIALS AND BEGINNING WORK.

	<p>MAY 2020</p> <p>XGFG 192006</p> <p>UPGRADE MAIN GATE BARRIERS</p>
	<p>NEW NON-POWERED VEH BARRIER BEAM</p> <p>PAGE 8 of 17</p>
<p>WISCONSIN AIR NATIONAL GUARD</p> <p>115TH FIGHTER WING</p> <p>TRUAX FIELD AIR NATIONAL GUARD BASE</p> <p>3110 Mitchell Street</p> <p>MADISON, WI 53704-2591</p> <p>608 245-4571</p>	
<p>DRAWN BY: DJW</p>	<p>C5</p>



NORTH



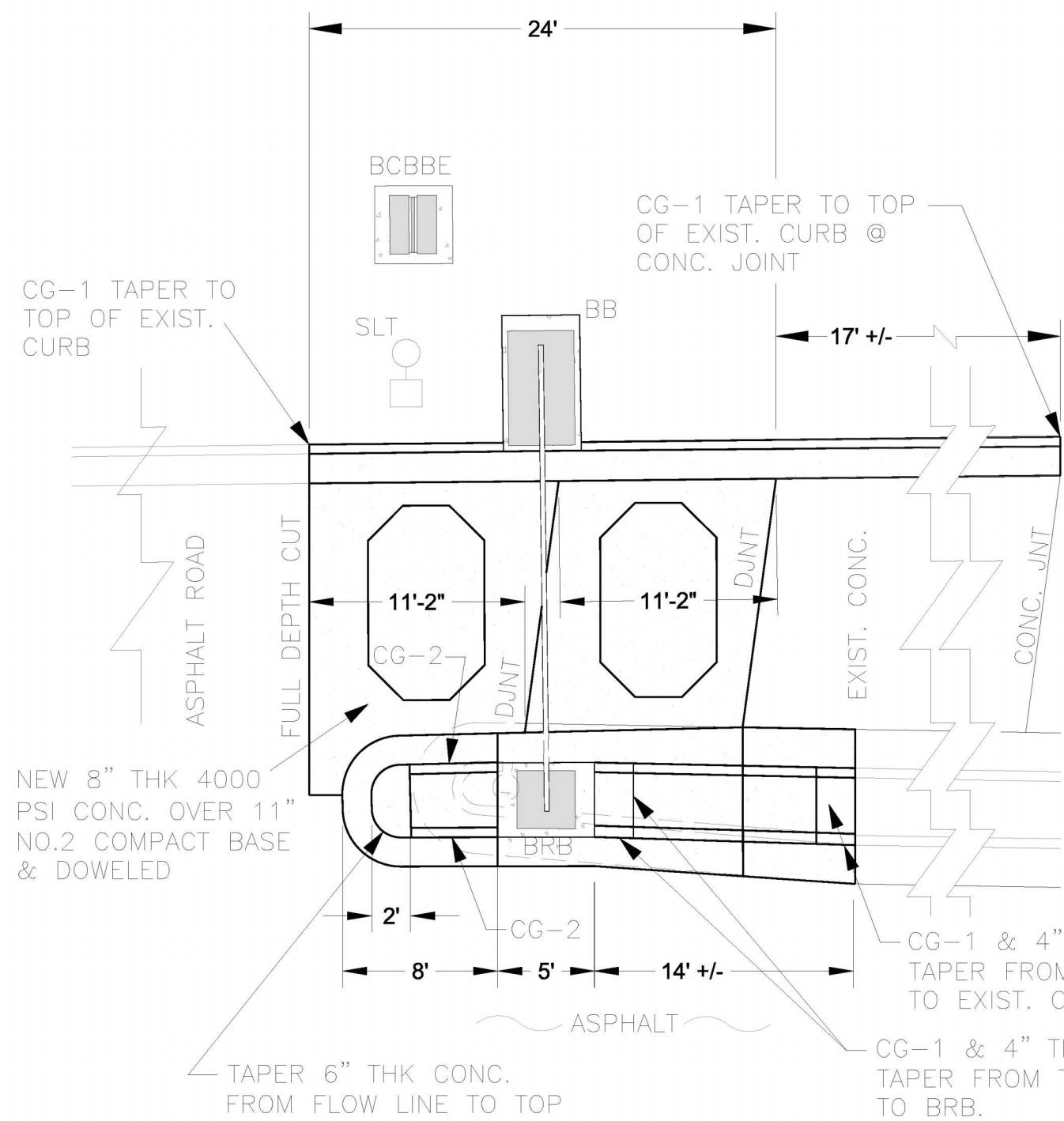
KEYED NOTES

1. COMPLETELY REMOVE MANUAL DROP GATE, INCLUDING ALL ASSOCIATED CONCRETE AND ATTACHMENTS. SALVAGE METAL TO TRUAX METAL RECYCLING LOCATION.
2. REMOVE CONCRETE CURB, GUTTER AND CONCRETE ISLAND FOR PLACEMENT OF NEW BARRIER SYSTEM RECEIVING BUTTRESS. FULL-DEPTH. SEE SHT D1 ENLARGED PLAN.
3. SAWCUT AND REMOVE ASPHALT ROADWAY FULL DEPTH. FURNISH & PLACE NEW ASPHALT ON COMPACTED BASE SAME AS ASPHALT PATCH, SHEET C2.
4. SAWCUT CURB, GUTTER, CONCRETE ISLAND AND CONCRETE PAVEMENT. CUT PAVEMENT SECTION ALONG JOINT FULL LENGTH. FURNISH & PLACE NEW CONCRETE AS DETAILED.
5. FURNISH AND INSTALL COMPLETE UNIT ASSEMBLY; ACTIVE ANTI-RAM RATED VEHICLE POWERED DROP ARM BARRIER MEETING OR EXCEEDING ASTM F2656 IMPACT CONDITION DESIGNATION M30. RSSI 3000 OR OTHER APPROVED PRODUCT. INSTALL IN ACCORDANCE WITH MFR. SPECIFICATIONS. NORMALLY IN CLOSED (DOWN) POSITION. SIMILAR TO SHEET C1 BASE BID.
6. FURNISH AND INSTALL NEW UNDERGROUND 2" SCH 40 PVC CONDUIT W/ 6-#8 THHN HOME RUN FROM B3 & (1) 1" C W/6 CAT5E & 1-M/M FIBER. SEE SHT. E1.
7. INTERCEPT UNDERGROUND CONDUIT & CONDUCTORS. FURNISH & INSTALL NEW OPEN BOTTOM 24" X 24" X 16" QUARTZITE (OR APPROVED EQUAL) JUNCTION BOX & SCREW-DOWN COVER FLUSH IN FINISH GRADE. FURNISH & INSTALL NEW 1" PVC SCH. 40 CONDUIT AND NEW CONDUCTORS TO SLT; 2-#8, 1-#10 GND. SEE SHT. E1.
8. EXISTING UNDERGROUND SLT CONDUIT & CONDUCTORS TO REMAIN.
9. EXISTING HANDHOLE TO REMAIN.
10. EXISTING SERVICE FEEDERS TO REMAIN.
11. EXISTING CONDUIT, CONDUCTORS, BRANCH CRCT. FOR GATE MOTOR TO REMAIN.
12. EXISTING CONDUITS AND CONDUCTORS TO B513 TO REMAIN.
13. PROTECT STL BOLLARD SLEEVE AND ADJUST TO FLUSH IN NEW ASPHALT.
14. BASE BID: REMOVE CHAIN-LINK FENCE. NEATELY SALVAGE METAL TO TRUAX METAL RECYCLING LOCATION. FURNISH & INSTALL NEW CHAIN-LINK & FENCE MOW STRIP; BASE BID (SHT T2).

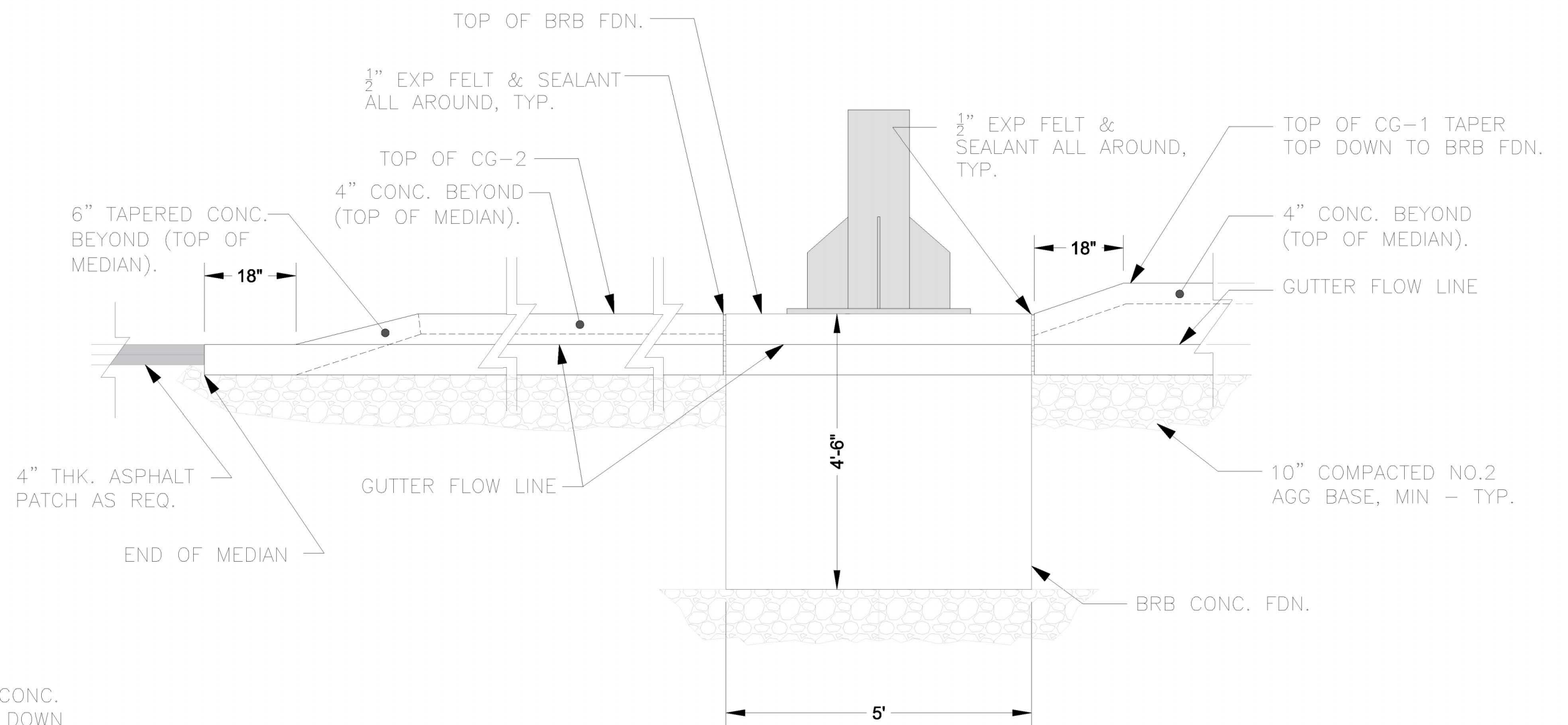
IMPORTANT NUMBERS

- 608-245-4548 CONTRACTING OFFICER
- 608-245-4571 BASE ENGINEERING
- 608-245-4530 SECURITY
- 608-245-4561 FIRE
- 608-245-4437 SAFETY

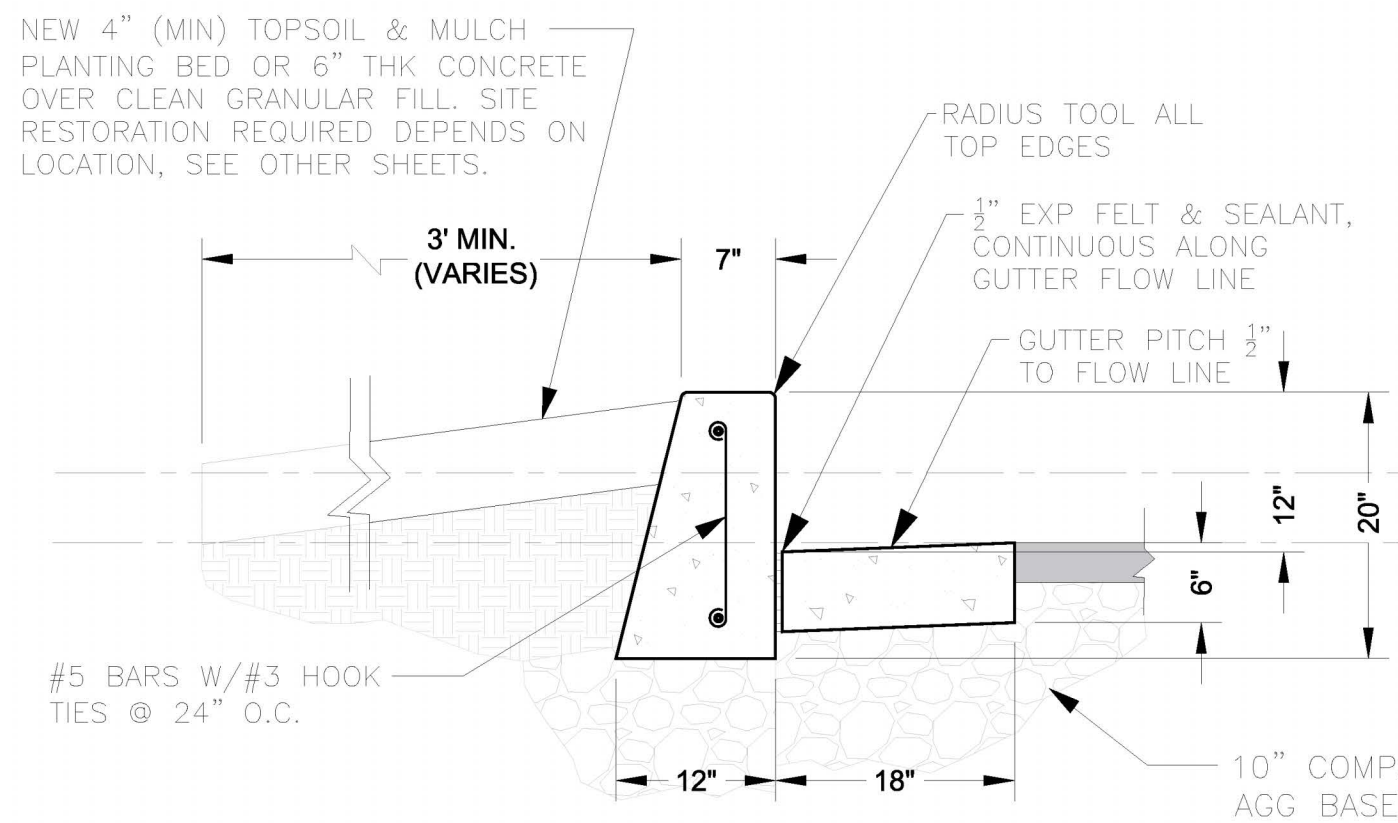
 MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	OPTON 2 PLAN <small>PAGE 9 of 17</small>
<small>WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571</small>	
<small>DRAWN BY: DJW</small>	C6



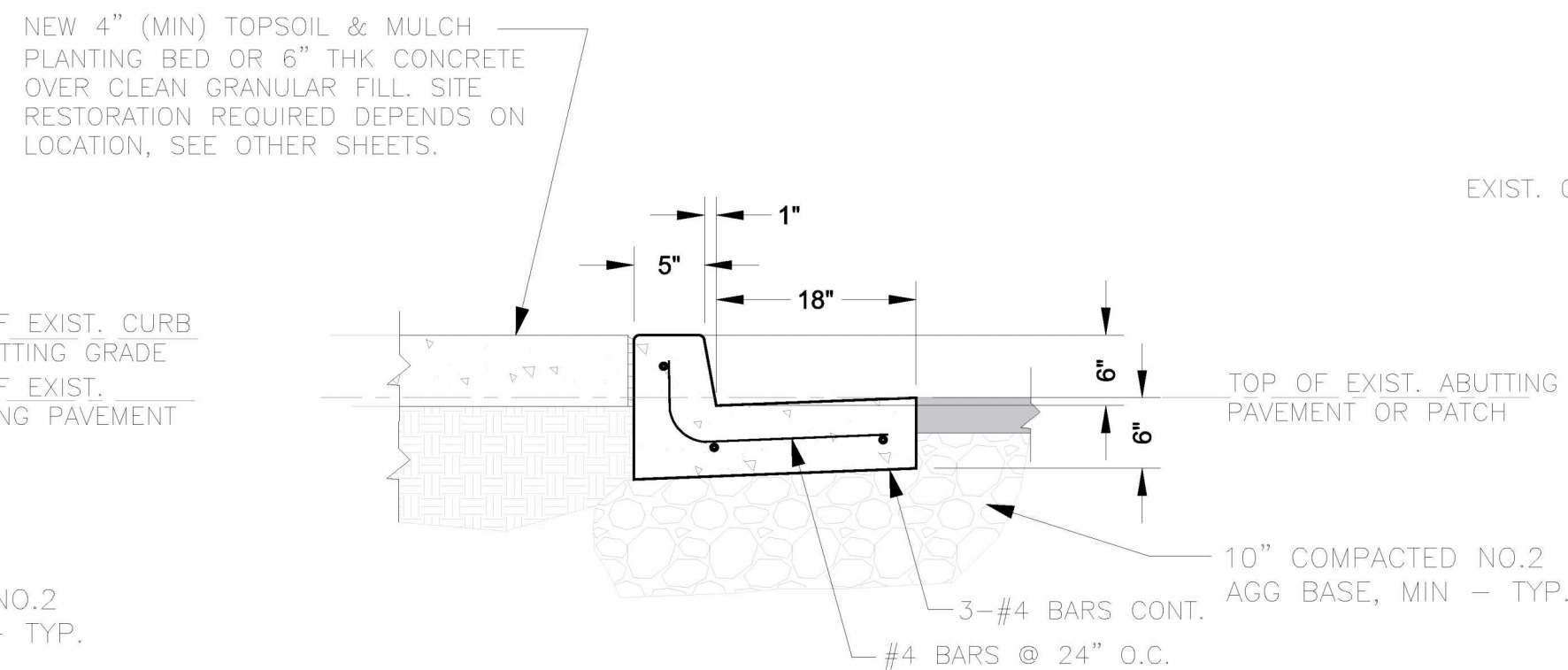
1 OPTION 2 - ENLARGED PLAN



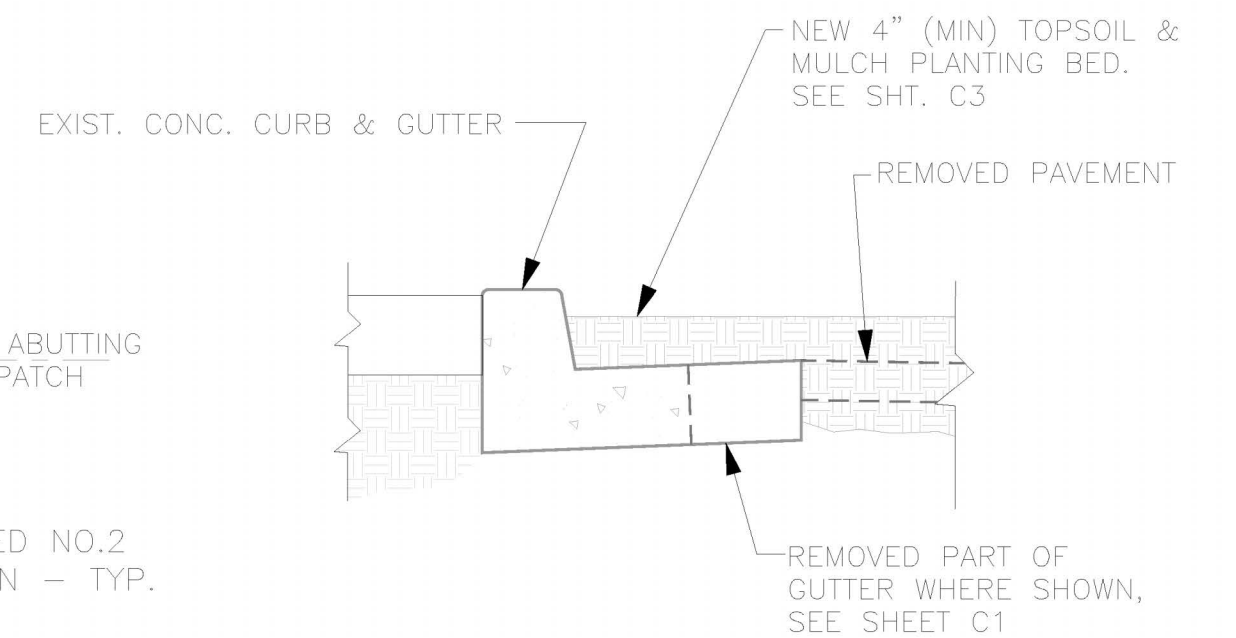
2 OPTION 2 - RECEIVING BUTTRESS MEDIAN RECONSTRUCTION



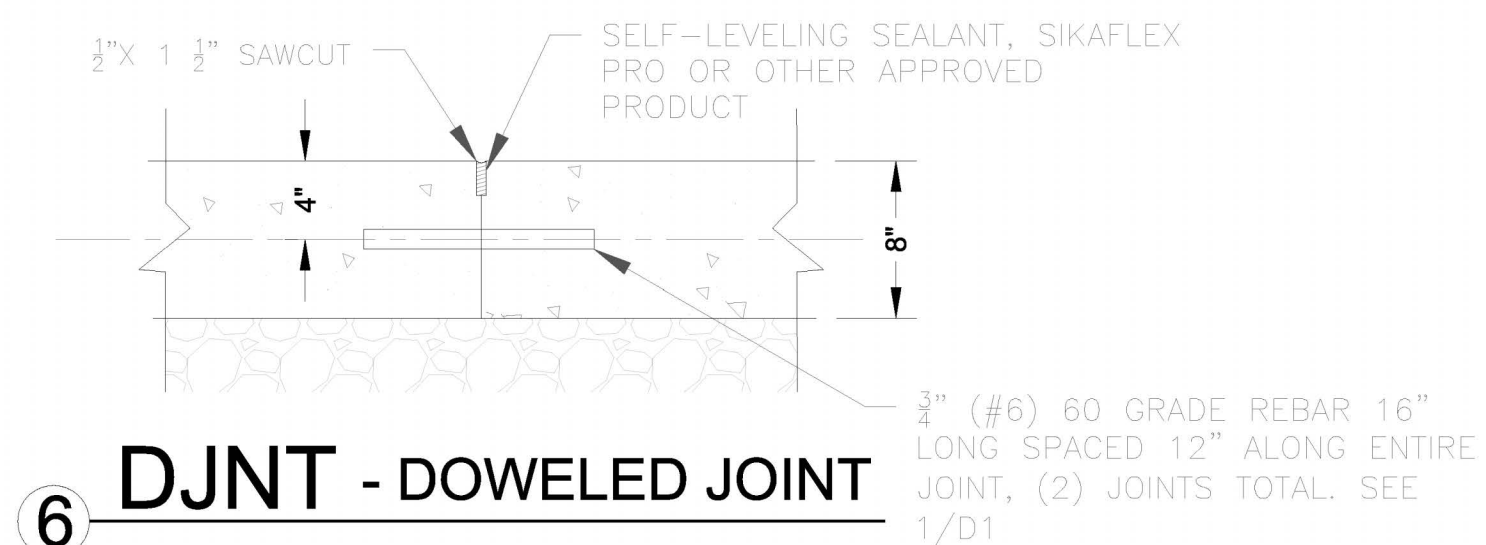
3 CG-1 CONC. CURB & GUTTER
NEW CONC. 3000 PSI MIN.
FIBER REINFORCED



4 CG-2 CONC. CURB & GUTTER
NEW CONC. 3000 PSI MIN.
FIBER REINFORCED




5 CG-3 CONC. CURB & GUTTER
EXISTING



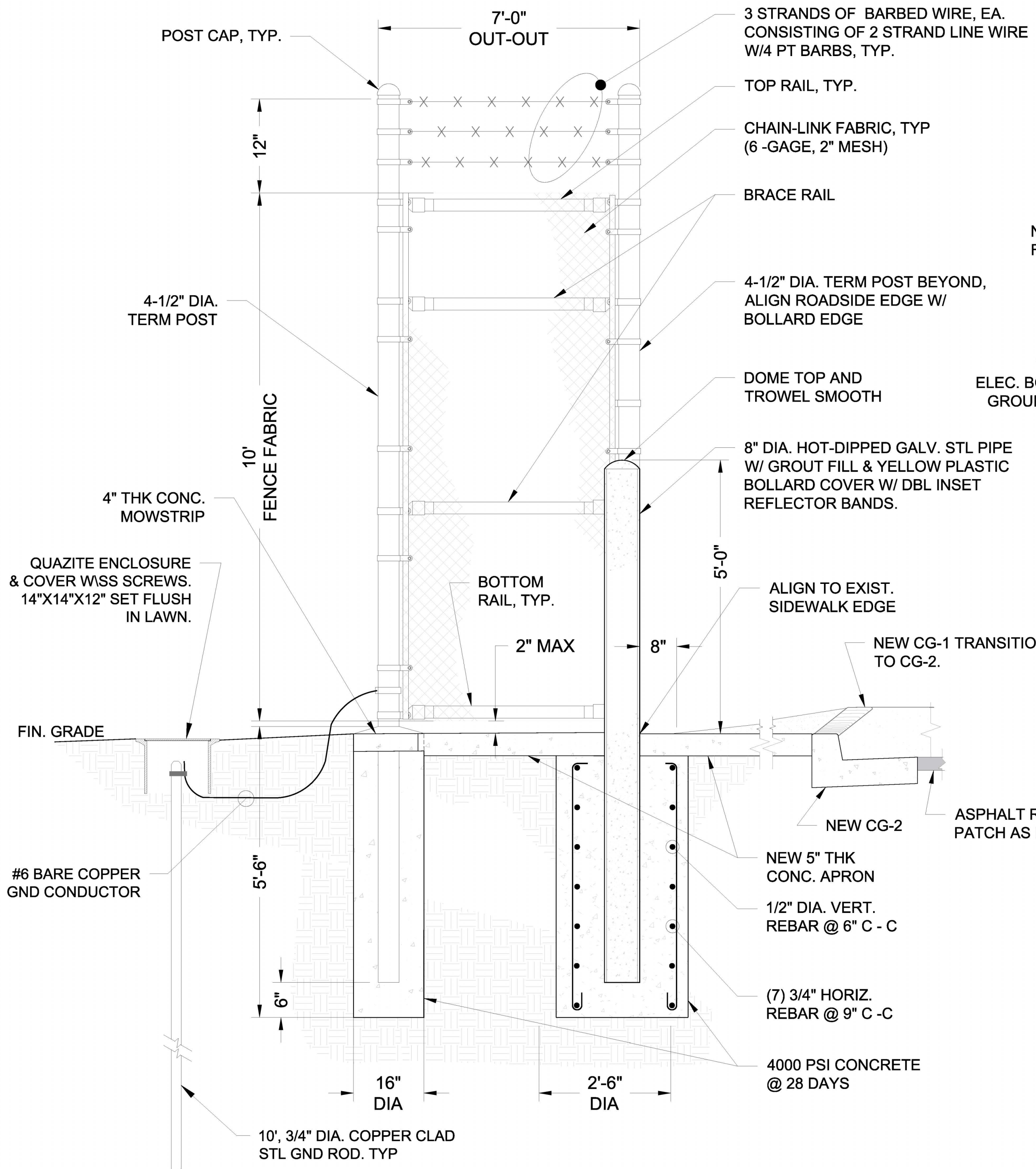
6 DJNT - DOWELED JOINT

IMPORTANT NUMBERS

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608-245-4571 BASE ENGINEERING
608-245-4530 SECURITY
608-245-4561 FIRE
608-245-4437 SAFETY

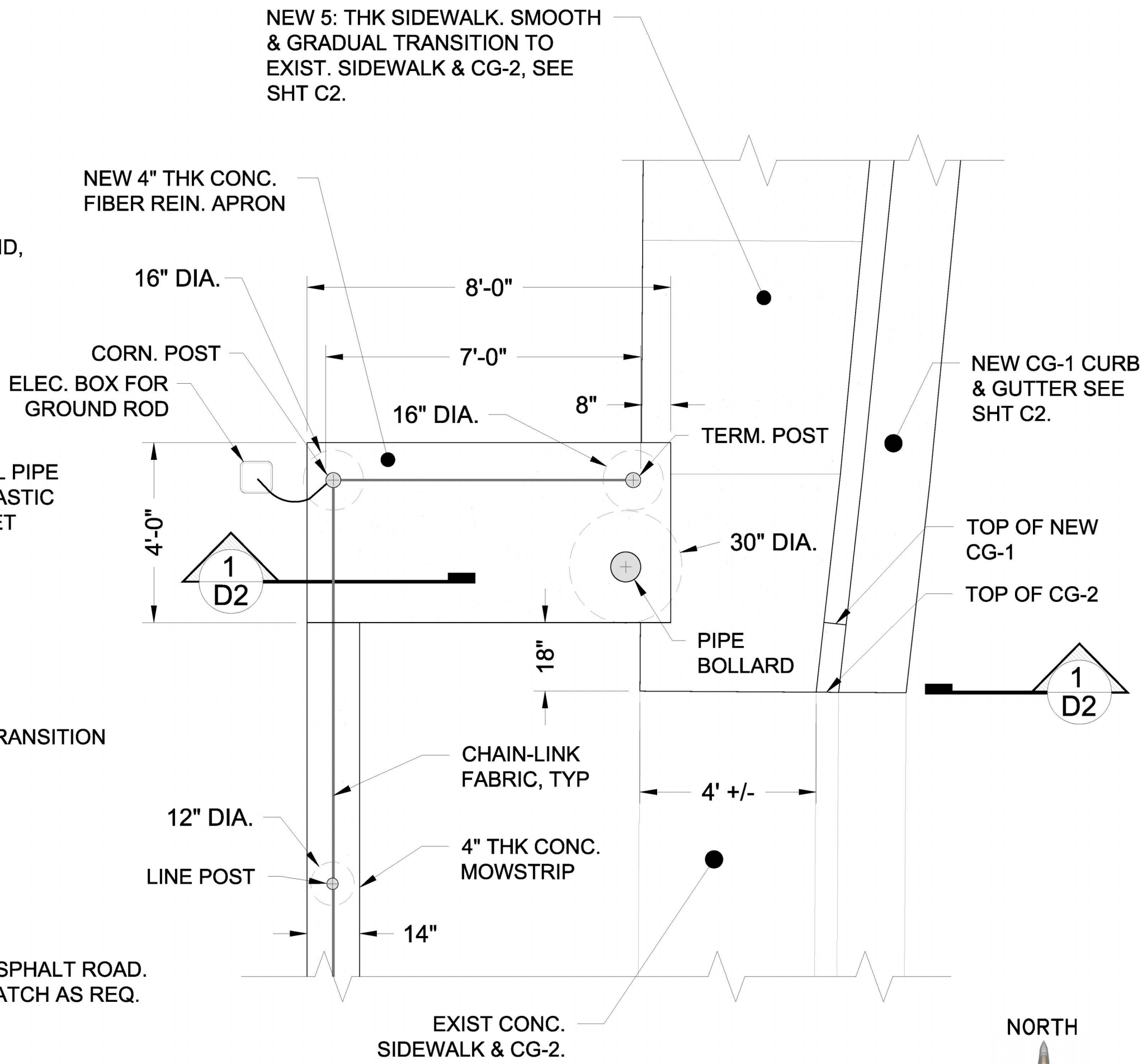
 MAY 2020 DRAWN BY: DJW	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	DETAILS PAGE 10 of 17 WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571

D1

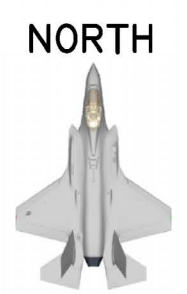


1 TERMINAL END PROJECT LIMIT & BOLLARD DETAIL


NOTE: STEEL PIPE FOR PIPE BOLLARDS SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, GALVANIZED, MINIMUM WALL THICKNESS 0.322 INCHES MIN.

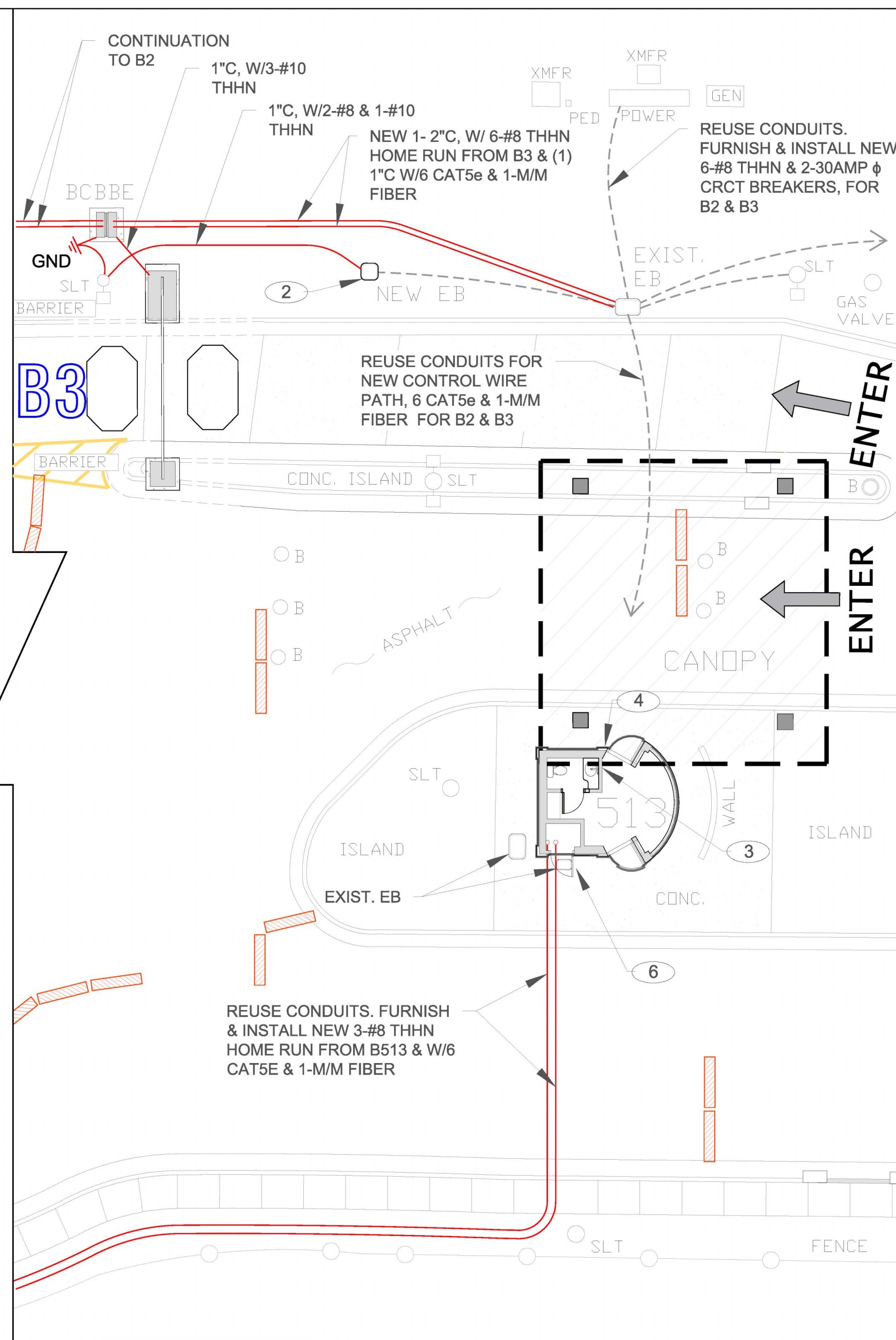
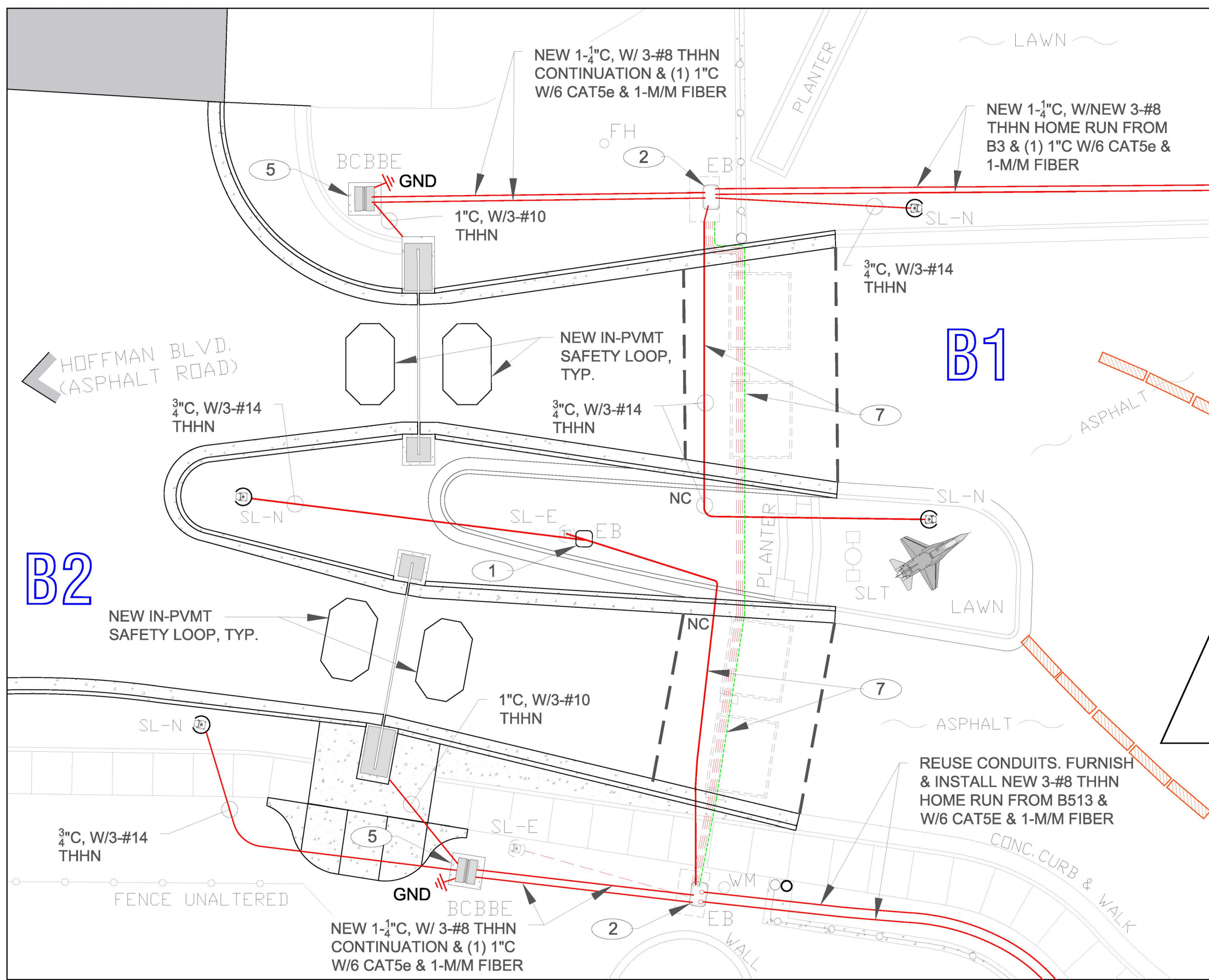


2 ENLARGED PLAN TERMINAL END PROJECT LIMIT & BOLLARD DETAIL



IMPORTANT NUMBERS
 608-245-4548 CONTRACTING OFFICE
 608-245-4571 BASE ENGINEERING
 608-245-4530 SECURITY
 608-245-4561 FIRE
 608-245-4437 SAFETY

 MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	TERMINAL POST & BOLLARD DETAILS PAGE 11 of 17
WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571	
DRAWN BY: DJW	D2



GENERAL ELECTRICAL NOTES

1. FURNISH AND INSTALL CONDUITS & CONDUCTORS FOR COMPLETE ACTIVE ANTI-RAM RATED POWERED DROP ARM VEHICLE BARRIERS. INSTALL IN ACCORDANCE WITH MFR. SPECIFICATIONS. B1 & B2 ARE INCLUDED IN THE BASE BID. B3 IS OPTION 2. SEE OTHER SHEETS.
2. FOR BARRIERS B1 & B2 SEE SITE IMPROVEMENTS SHT. C1, C2, & C3.
3. FOR BARRIER B3 SEE SITE IMPROVEMENTS SHT. C6 & T2; OPTION 2.
4. EB - FURNISH & INSTALL NEW BOX FLUSH IN FIN. GRADE UNLESS OTHERWISE NOTED. "QUAZITE" PG STYLE, TIER 5 OPEN BOTTOM OR OTHER APPROVED PRODUCT.
5. FURNISH & INSTALL NEW 10', 3/4" DIA. COPPER-CLAD STEEL GROUND ROD & (1) #6 BARE COPPER GROUND CONDUCTOR WHERE SHOWN.
6. FURNISH & INSTALL ALL NEW PVC SCHEDULE 40 CONDUITS AND COPPER CONDUCTORS IN SIZES SHOWN UNLESS OTHERWISE NOTED.
7. REUSE TO THE GREATEST EXTENT POSSIBLE; EXISTING CONDUITS, RACEWAYS & PANELS WITHIN BLDG 513; UG CONDUITS & BOXES TO RUN NEW CIRCUITS FROM BUILDING 513 TO LOCATIONS SERVICING THE COMPLETE DROP ARM BARRIER SYSTEM(S).
8. FURNISH & INSTALL ALL NEW CAT5e CABLE TYPE CMXF UNLESS OTHERWISE NOTED.
9. ALL EXTERIOR ELECTRICAL EQUIPMENT, DEVICES, BOXES AND CONNECTORS SHALL BE RATED NEMA 3R MINIMUM.
10. FURNISH & INSTALL NEW IN-PAVEMENT SAFETY LOOP, TYPICAL.


KEYED NOTES

1. EB - INTERCEPT UNDERGROUND CONDUIT & SPLICE CONDUCTORS TO EXTEND CIRCUITS IN NEW BOXES, ELEC. NOTE 4/E1.
2. FURNISH & INSTALL NEW BOX IN LOCATION OF REMOVED BCB (SHT. C1). INTERCEPT CONDUITS & CIRCUITS & PROVIDE CONTINUATION AS REQUIRED FOR NEW WORK TO ENERGIZE & CONTROL THE NEW DROP-ARM BARRIER & SIGNALING SYSTEM I.A.W. MFR INSTRUCTIONS.
3. REUSE OR REPLACE EXISTING WALL MTD BARRIER CONTROL PANEL FOR NEW PRIMARY OPERATOR AND FIBER PANEL.
4. REUSE OR REPLACE EXTERIOR WALL MTD EMERGENCY CONTACT SWITCHES FOR EMERGENCY RESPONSE ACTIVATION.
5. FURNISH AND INSTALL NEW SECONDARY OPERATOR CONTROL PANEL.
6. BLDG. 513 ELECT & CONTROL CLOSET.
7. COORDINATE WITH REMOVAL SHEET C1. CONDUITS IN THIS AREA WILL BE REMOVED WITH BARRIER DEMO. NEW CONDUITS SHALL BE FURNISHED AND CONNECTED TO EXIST. FOR CRCT CONTINUATION WHERE REMOVED. VERIFY TYPE & SIZE FOR ATTACHMENT. NC - NEW CONDUIT CONNECTION.

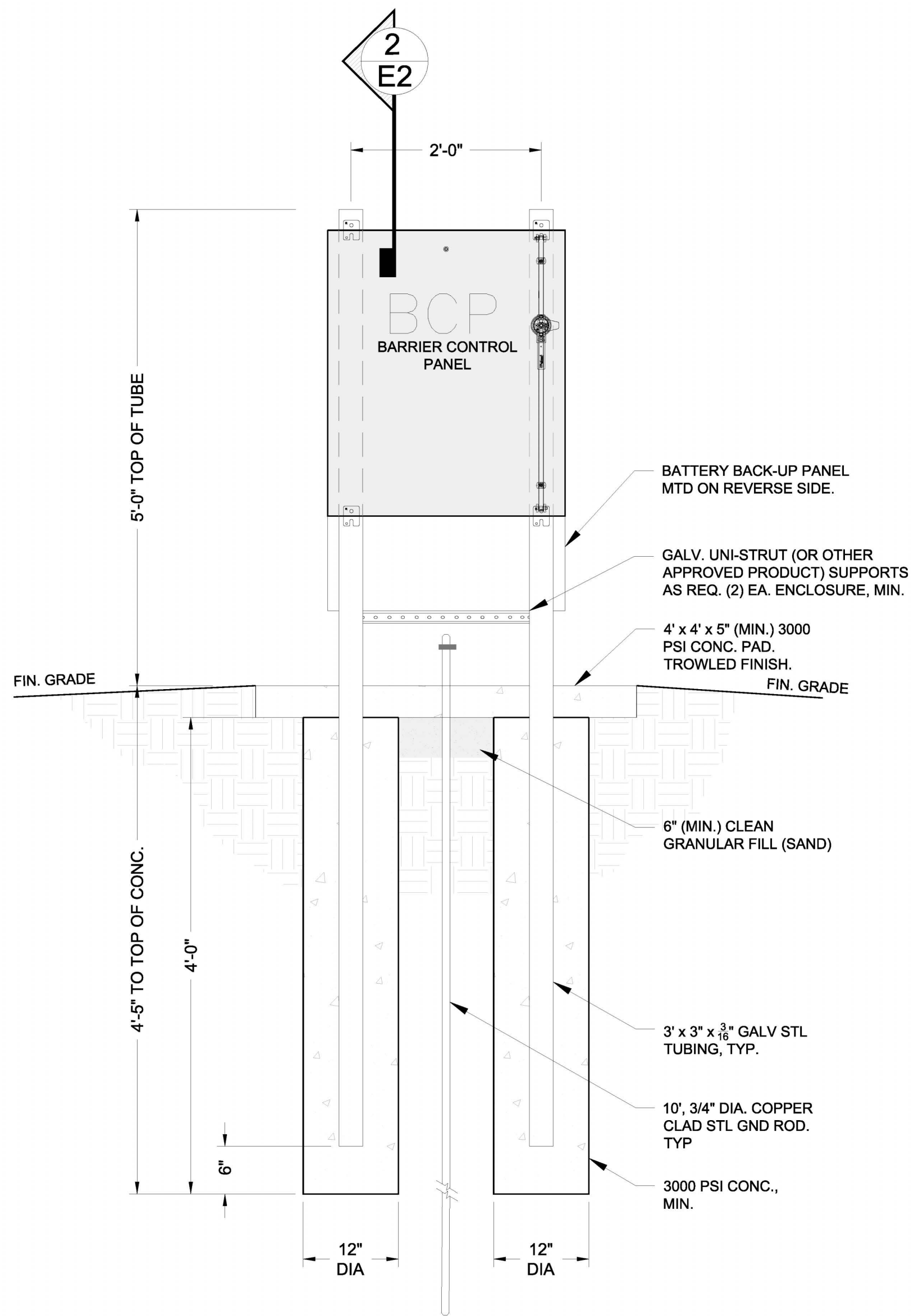


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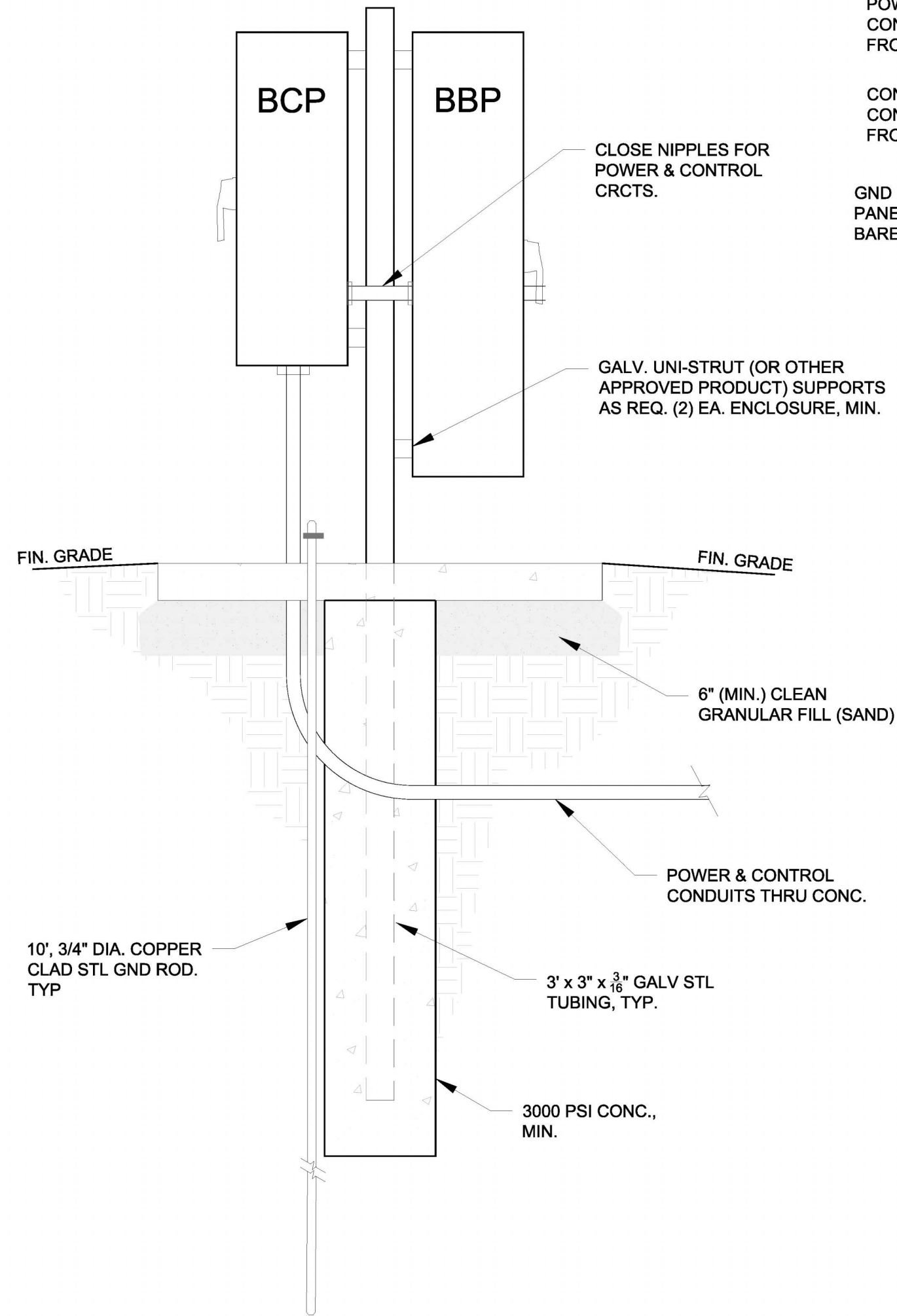
ABBREVIATIONS: SEE SHEETS C2 & C3

 MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	ELECTRICAL & CONTROL PLAN PAGE 12 of 17
	WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571

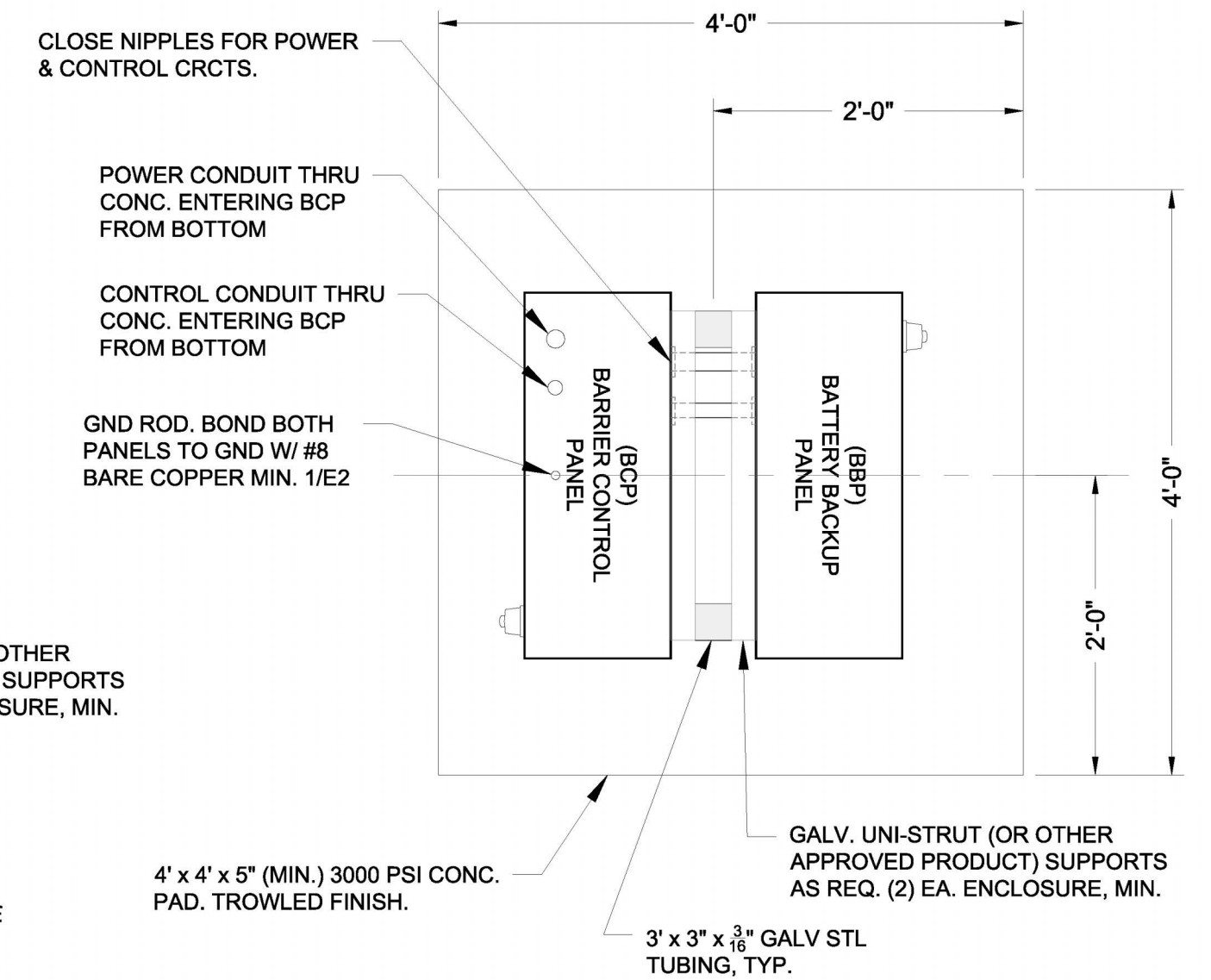
E1



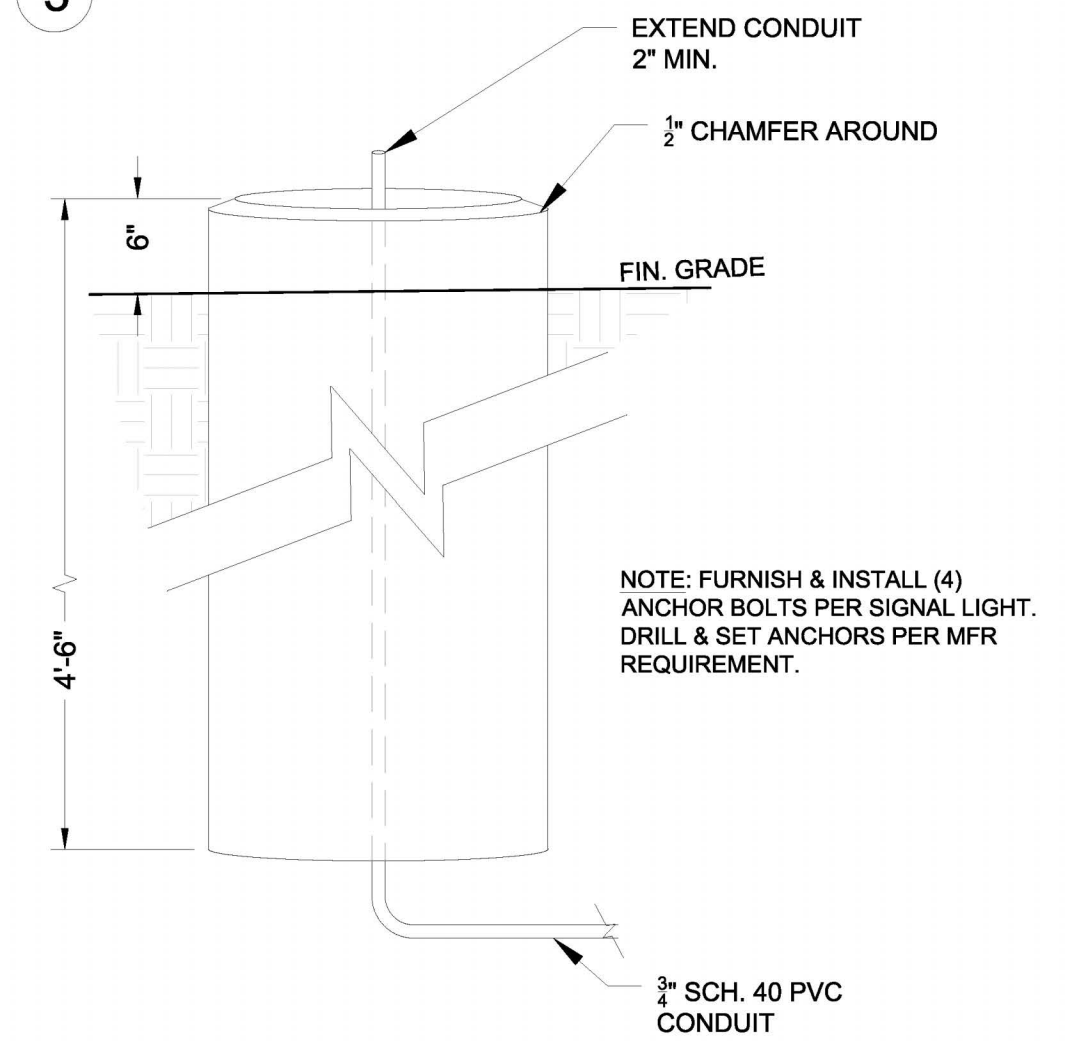
1 BCBBE: BEAM CONTROL & BACKUP BATTERY ENCLOSURES



2 BCBBE: SECTION END VIEW




3 BCBBE: PLAN VIEW

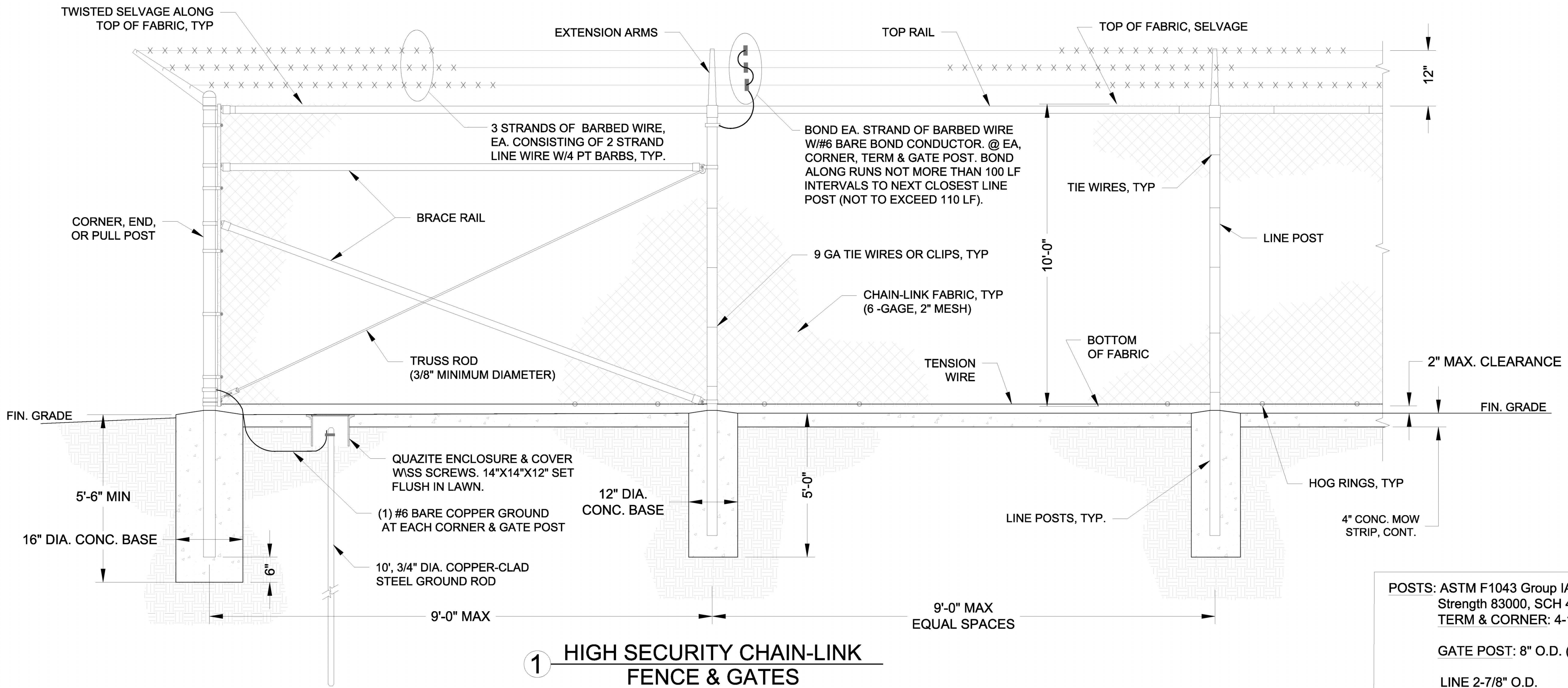


4 SIGNAL LIGHT BASE 2' DIA. 3000 PSI CONC.



IMPORTANT NUMBERS
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 608-245-4571 BASE ENGINEERING
 608-245-4530 SECURITY
 608-245-4561 FIRE
 608-245-4437 SAFETY

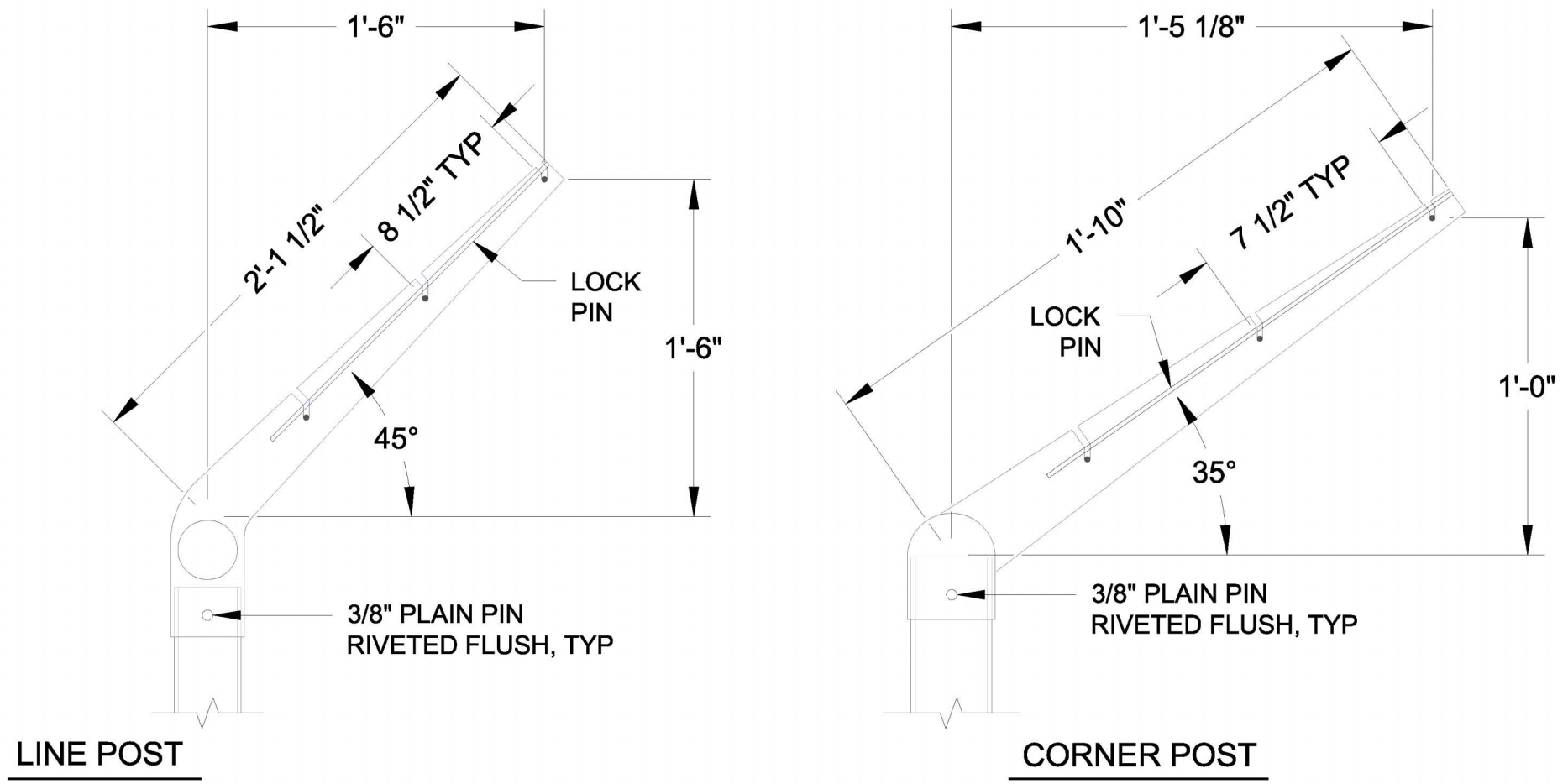
 DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA	MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
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WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571		
DRAWN BY: DJW		E2



1 HIGH SECURITY CHAIN-LINK FENCE & GATES

- POSTS:** ASTM F1043 Group IA High Strength 83000, SCH 40
TERM & CORNER: 4-1/2" O.D.
- GATE POST:** 8" O.D. (C6 NOTE 3)
- LINE:** 2-7/8" O.D.
- FABRIC:** 6 GA X 2" MESH
- TOP RAIL:** 1-5/8" O.D.
- MIDDLE & BRACE RAIL:** 1-5/8" O.D.
- BOTTOM RAIL:** 1-5/8" O.D.
- POST CAPS:** DOME STYLE
- TIES:** 9GA ALUMINUM
- TOP (BARBED) WIRES:** ASTM 121, 12 GA
- MOW STRIP:** CONTINUOUS 14" BY 4" FIBER REINFORCED.
- ALL CONCRETE:** 4000 PSI


CONTRACTOR SHALL COORDINATE EVERY DAY'S PROGRESS THROUGH TRUAX SECURITY. THERE SHALL BE NO REMOVED FENCE WITHOUT TRUAX SECURITY APPROVAL AND TEMPORARY SECURITY MEASURES IN PLACE.



2 EXTENSION ARM DETAILS

- IMPORTANT NUMBERS**
- 608-245-4548 CONTRACTING OFFICER
 - 608-245-4571 BASE ENGINEERING
 - 608-245-4530 SECURITY
 - 608-245-4561 FIRE
 - 608-245-4437 SAFETY

MAY 2020



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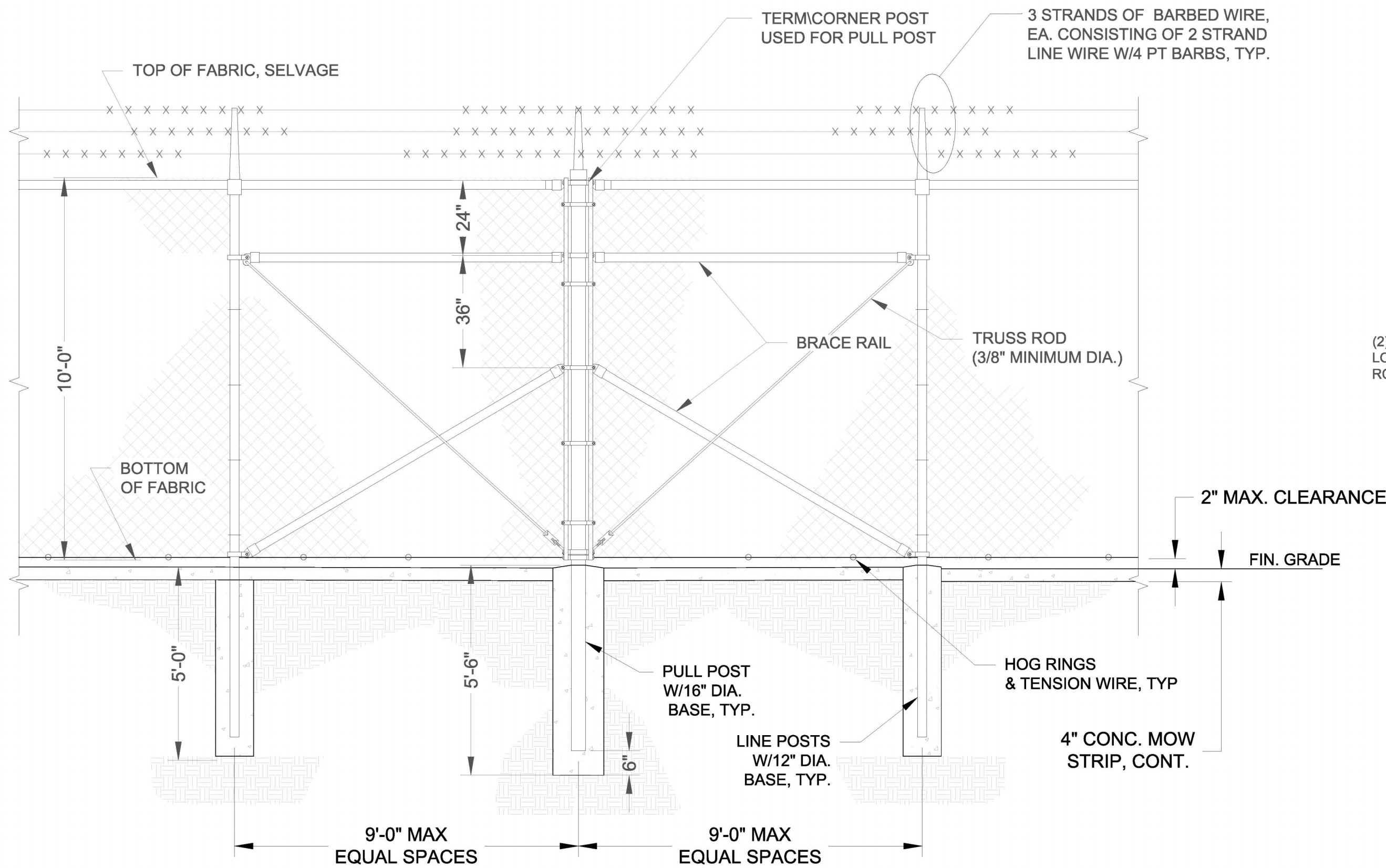
XGFG 192006
UPGRADE MAIN GATE BARRIERS

NEW HIGH-SECURITY CHAINLINK (CLF) DETAILS

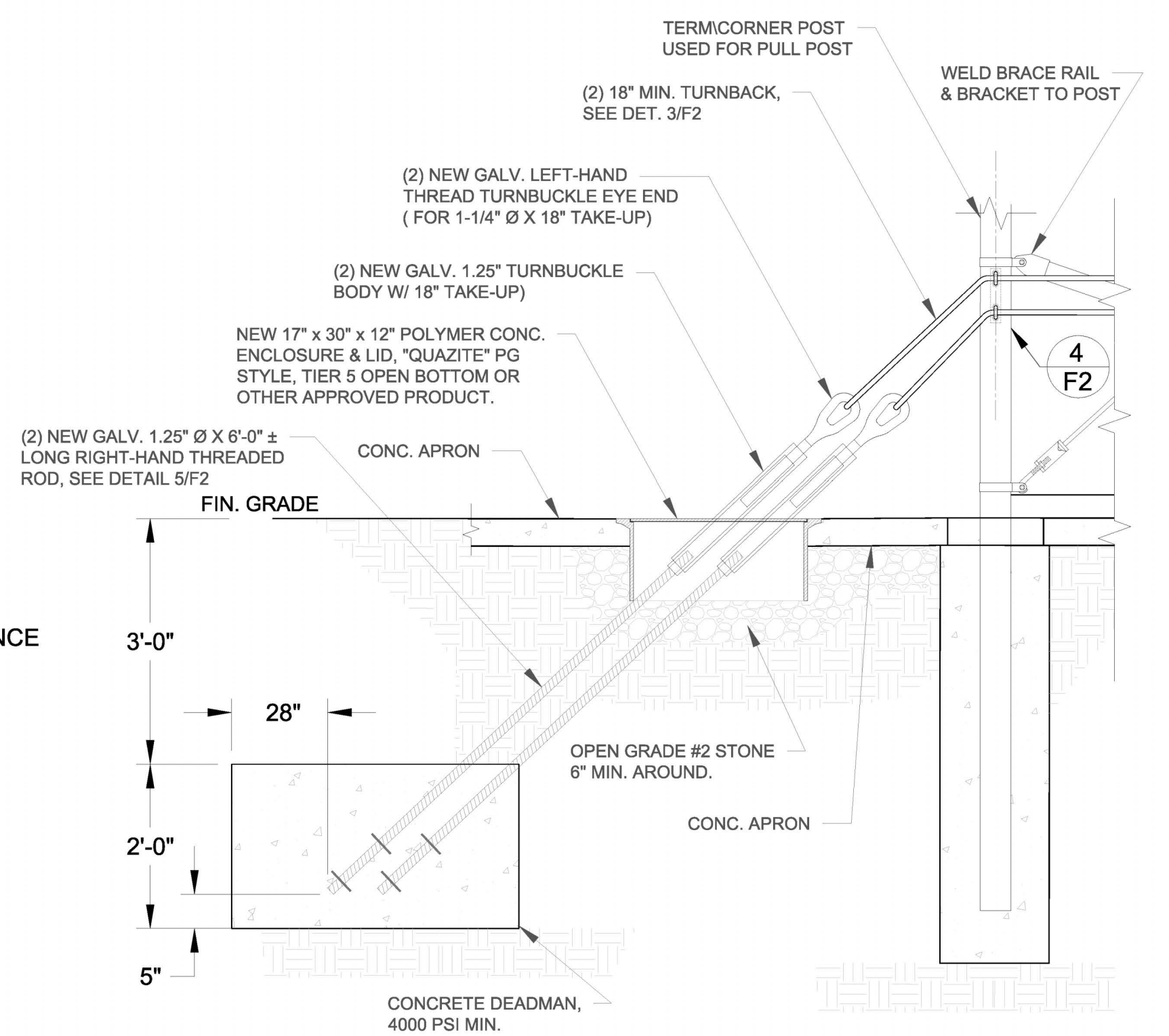
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WISCONSIN AIR NATIONAL GUARD
115TH FIGHTER WING
TRUAX FIELD AIR NATIONAL GUARD BASE
3110 Mitchell Street
MADISON, WI 53704-2591
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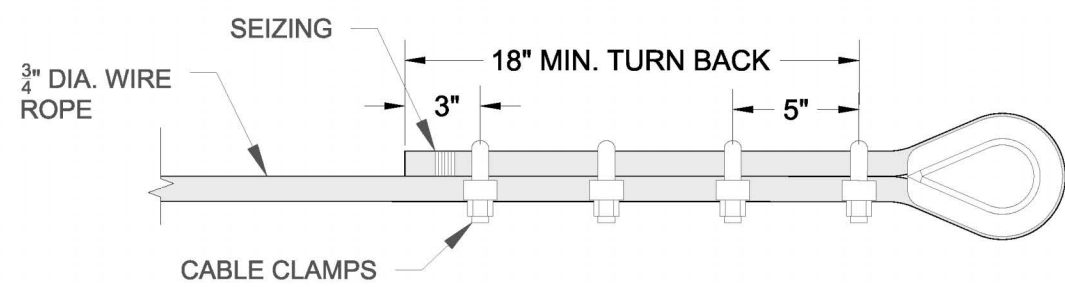
F1



**1 CLF BRACE PANEL - ONE REQUIRED
BASE BID**



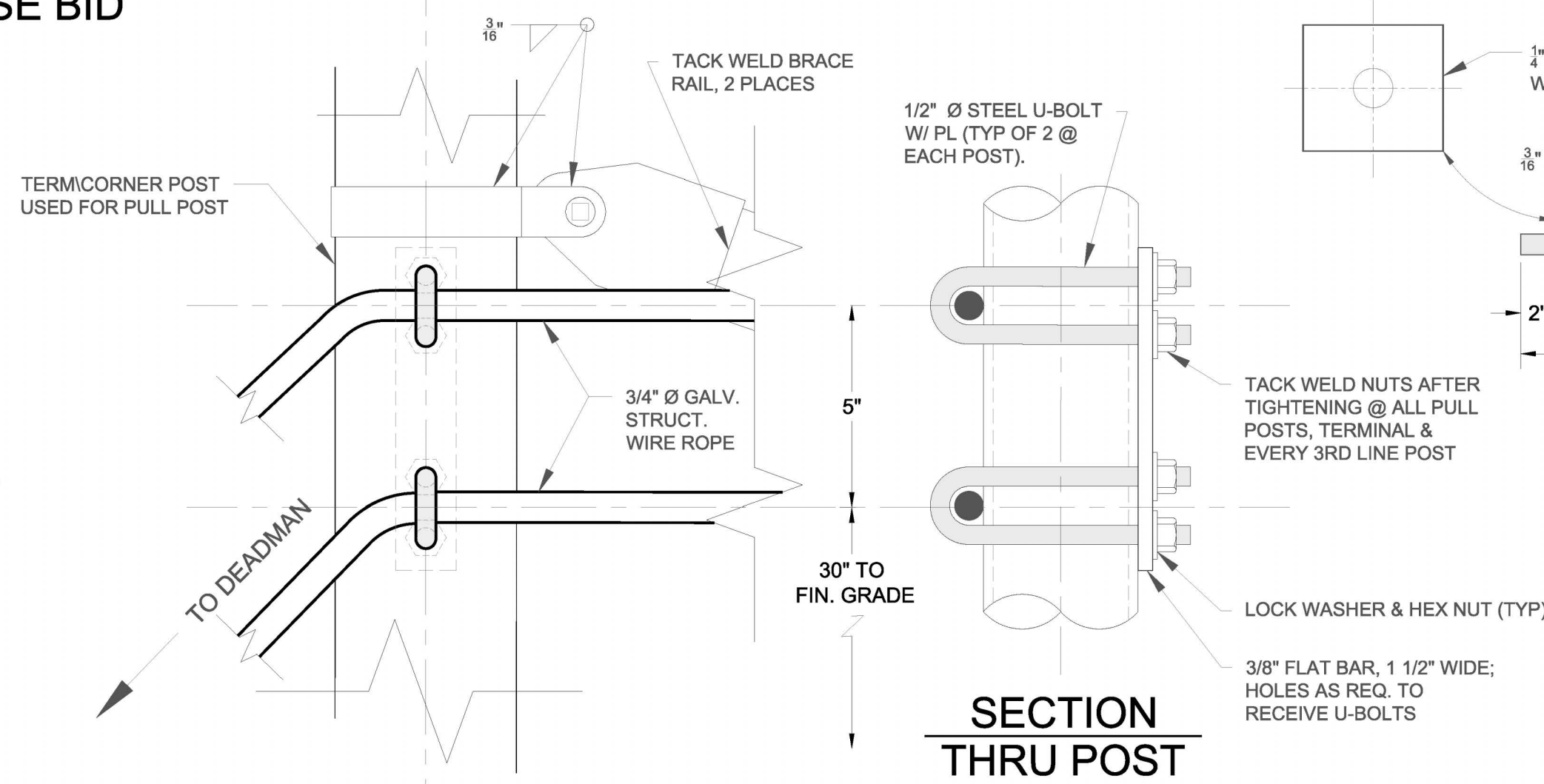
2 DEADMAN & CABLE TERMINATION



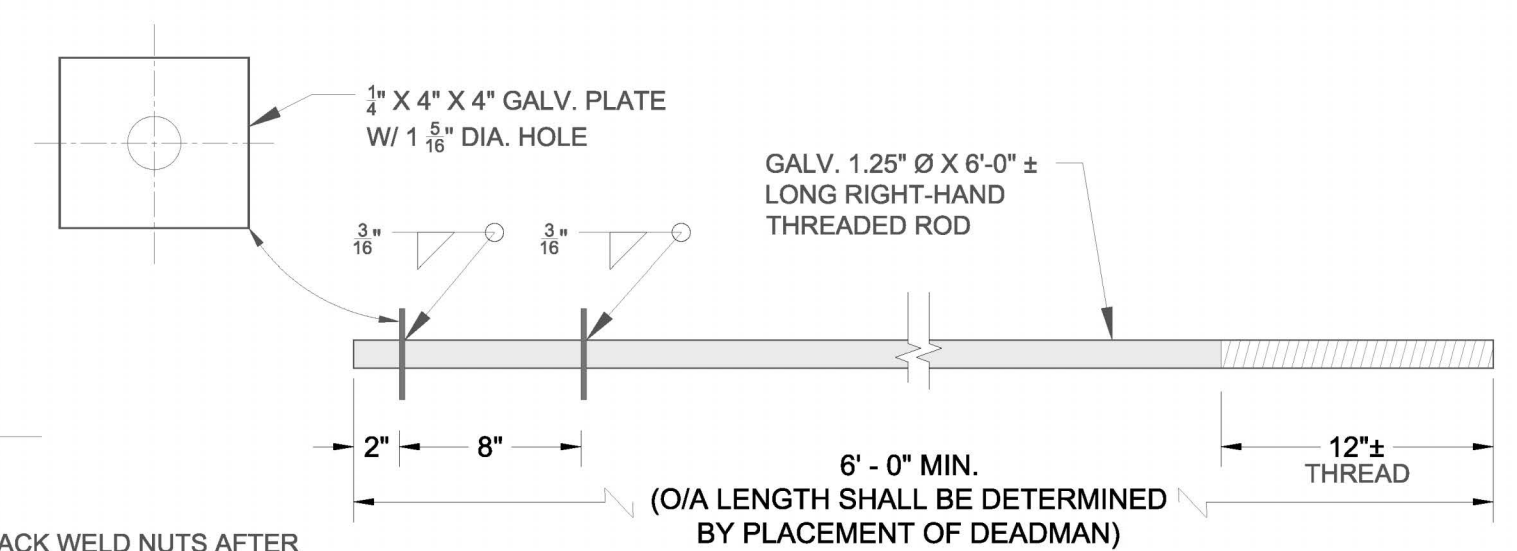
**3 TYPICAL TURNBACK AND CLAMP
DETAIL**

NOTE: INSTALL SADDLE OF CLIPS ON LIVE SIDE (AS SHOWN), SEIZE CUT END OF WIRE ROPE, AND TORQUE NUTS PER MANUFACTURER'S RECOMMENDATIONS.


WIND SEIZING WIRE IN A TIGHT SPIRAL AROUND THE ROPE END TO A 1" LENGTH OF SEIZING. TWIST THE TWO ENDS OF THE SEIZING WIRE AT THE CENTER OF THE SEIZING LENGTH. USE ZINC COATED STEEL WIRE.

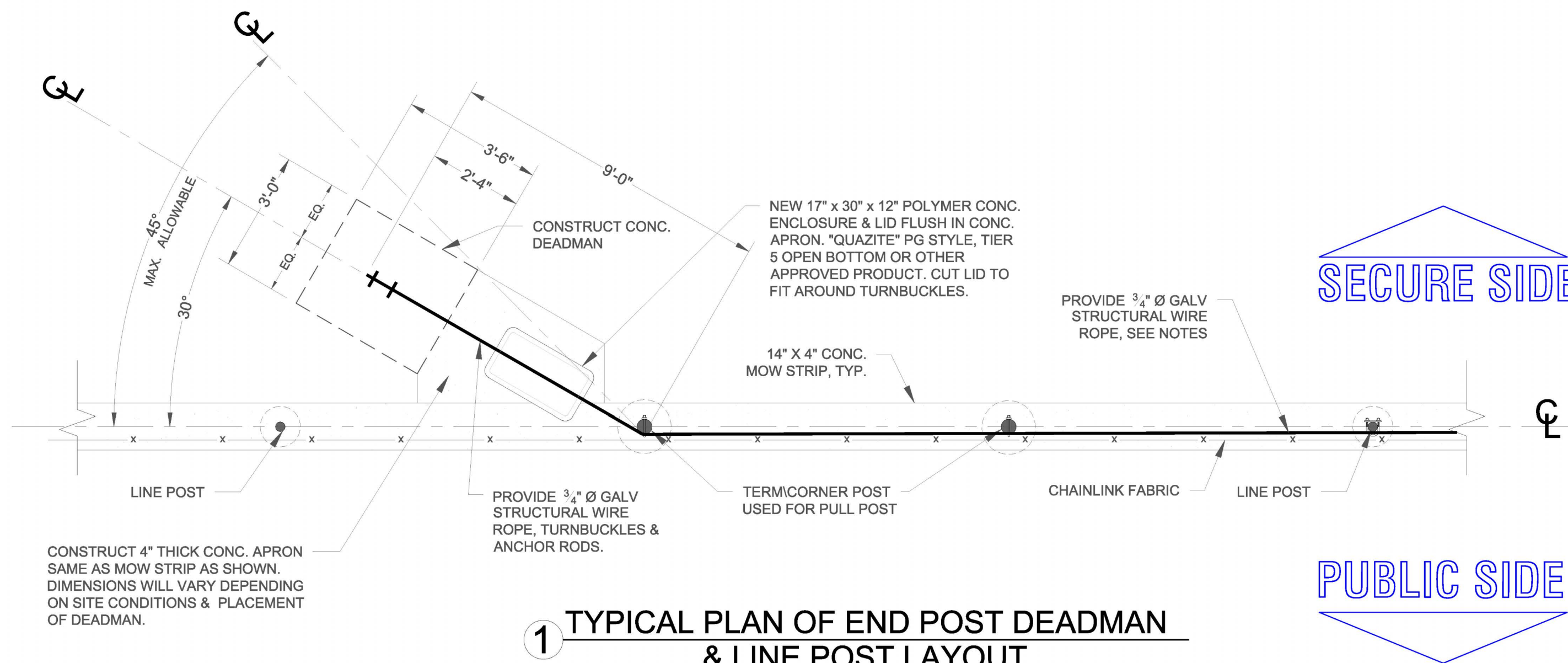


**4 CABLE ANCHORAGE DETAIL @ PULL &
ANCHOR POST - PUBLIC SIDE**

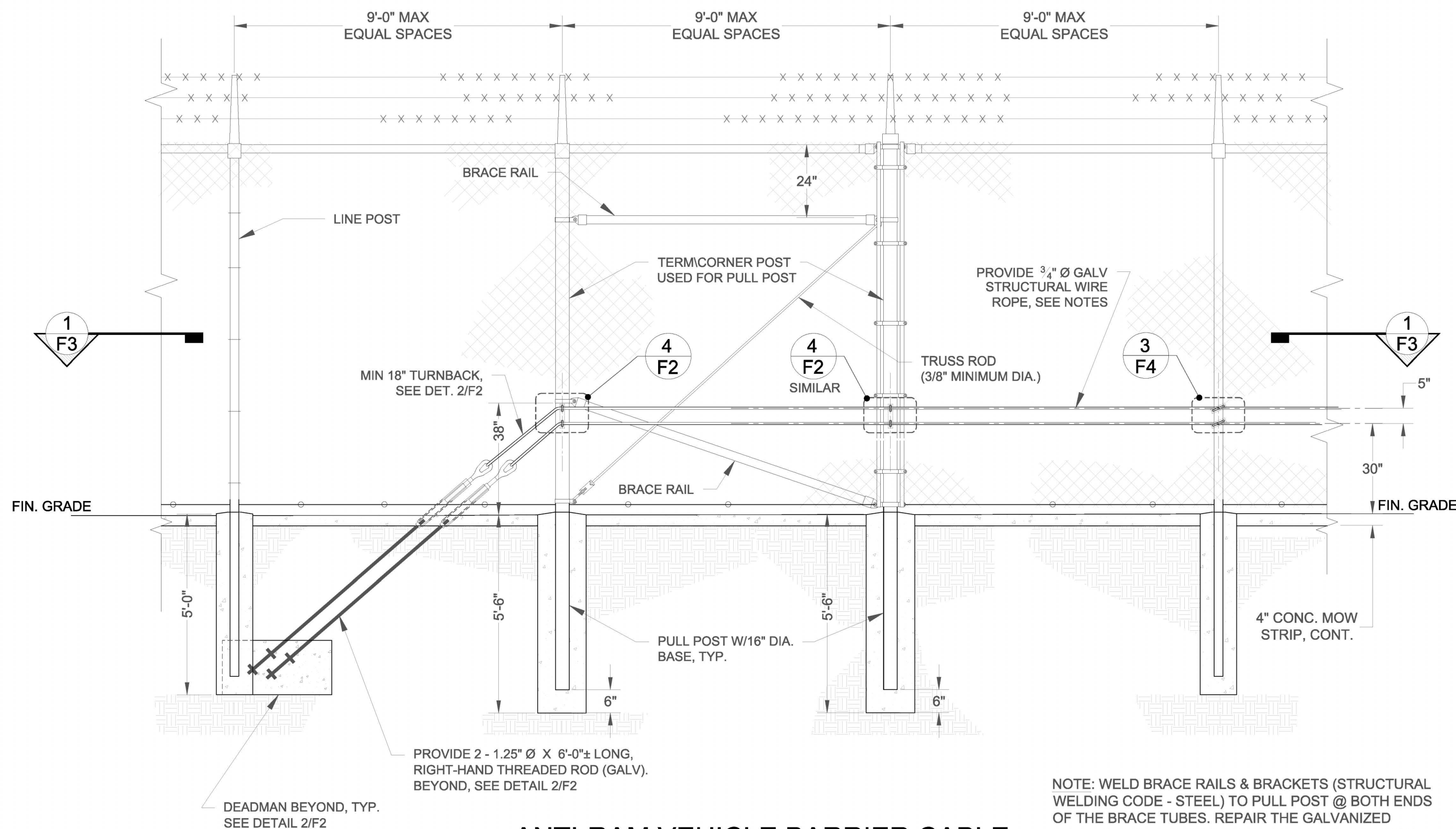


5 DEADMAN ANCHOR ROD

 MAY 2020	XGFG 192006 UPGRADE MAIN GATE BARRIERS
	NEW CLF BRACE PANEL & BARRIER CABLE DETAILS
WISCONSIN AIR NATIONAL GUARD 115 TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571	
DRAWN BY: DJW	F2



1 TYPICAL PLAN OF END POST DEADMAN & LINE POST LAYOUT



2 ANTI-RAM VEHICLE BARRIER CABLE PUBLIC SIDE ELEV

NOTE: WELD BRACE RAILS & BRACKETS (STRUCTURAL WELDING CODE - STEEL) TO PULL POST @ BOTH ENDS OF THE BRACE TUBES. REPAIR THE GALVANIZED SURFACE WITH ZINC-CADMIUM ALLOYS OR ZINC-TIN LEAD ALLOY "REPAIR STICKS."

NOTES:

1. BASE BID INCLUDES THIS WORK ONLY IN TWO AREAS DESIGNATED ON SHT T2.
2. BID OPTIONS: MAY BE ACCEPTED FOR THE REMAINING RUN OF NEW FENCE AS SHOWN WITH GREEN LINE SYMBOL ON SHT. T2 & NOTE 7.
3. DRAWINGS SHOW ONE TERMINAL END OF THE ANTI-RAM VEHICLE BARRIER CABLE RUN. CONSTRUCT THE OPPOSITE END THE SAME OR SIMILAR WITH LITTLE DEVIATION. EXPECT TO MAKE ADJUSTMENTS FOR SITE CONDITIONS.
4. REINFORCING CABLES SHALL BE U.S. DOMESTIC MINIMUM 3/4" Ø 6x19 CLASS WIRE ROPE, EXTRA IMPROVED PLOW STEEL (EIP), INDEPENDENT WIRE ROPE CORE (IWRC), CONFORMING TO ASTM A1023 AND GALVANIZED IN ACCORDANCE WITH ASTM A475 CLASS A, & HAVE A MINIMUM BREAKING STRENGTH OF 40,000 POUNDS (20 TONS).
5. CABLES SHALL BE CONTINUOUS FROM DEADMAN-TO-DEADMAN AT OPPOSITE ENDS OF THE RUN. NO CABLE SPLICES ALLOWED. CABLE BARRIER SHALL BE INSTALLED BETWEEN FENCE POST AND FENCE FABRIC ON THE PUBLIC SIDE AS SHOWN. U-BOLTS SHALL BE INSTALLED PERPENDICULAR TO THE LAY OF THE STRANDS OF THE WIRE ROPE AND SHALL BE TIGHTENED AFTER SAG IN CABLE BARRIER HAS BEEN REMOVED. UNLESS INDICATED OTHERWISE, CONCRETE DEADMAN SPACING SHALL BE AT MAXIMUM 200' INTERVALS & TURNING POINTS (CORNERS).
6. DEADMEN SHALL BE INSTALLED ON THE SECURED (INTERIOR PROTECTED) SIDE OF THE FENCE. CABLES SHALL BE INSTALLED ON THE EXTERIOR SIDE OF POST UNDER THE FENCE FABRIC.
7. CONCRETE DEADMEN SHALL CURE A MINIMUM OF 7 DAYS UNDER ACCEPTABLE AMBIENT CONDITIONS AS APPROVED BY THE GOVERNMENT PRIOR TO APPLYING LOADS - STRAIGHTENING & TENSIONING CABLES.
8. ALL STRUCTURAL STEEL (INCLUDING HARDWARE) USED IN CABLE ANCHORING SYSTEM SHALL BE HOT-DIPPED GALVANIZED. ANY AREAS WHERE COATING IS DAMAGED OR REMOVED SHALL BE TOUCHED UP WITH ZINC RICH COATING.
9. TURNBUCKLES SHALL BE 1 1/4"x18", TYPE I, GALVANIZED IN ACCORDANCE WITH ASTM F1145.
10. WIRE ROPE CLAMPS SHALL BE TYPE I, GALVANIZED, AND CONFORM TO FS FF-C-450.
11. ALL THREADED RODS, U-BOLTS, AND BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE INSTALLED WITH F844 WASHERS AND A563 NUTS. ENTIRE BOLT ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
12. ZINC RICH COMPOUND FOR REPAIRS SHALL BE 95% METALLIC ZINC, BY WEIGHT IN DRIED FILM; INSTALL AT LEAST TWO COATS, 4 MILS MIN TOTAL THICKNESS.
13. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
14. THREADED RODS SHALL BE 1 1/4", GALVANIZED. IN ACCORDANCE WITH ASTM A307 OR A36.
15. WELDED BRACE RAILS SHALL BE INSTALLED AS PER THE PLANS AND AWS D1.1 (STRUCTURAL WELDING CODE - STEEL) WHERE WELDING IS REQUIRED. DAMAGE TO GALVANIZED SURFACES SHALL BE REPAIRED WITH "REPAIR STICKS" OF ZINC-CADMIUM ALLOYS OR ZINC-TIN LEAD ALLOYS AS PER AWS-WZC D19.

 <p>MAY 2020</p> <p>DRAWN BY: DJW</p>	<p>XGFG 192006 UPGRADE MAIN GATE BARRIERS</p> <p>NEW ANTI-RAM VEHICLE BARRIER CABLE</p> <p>WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571</p>
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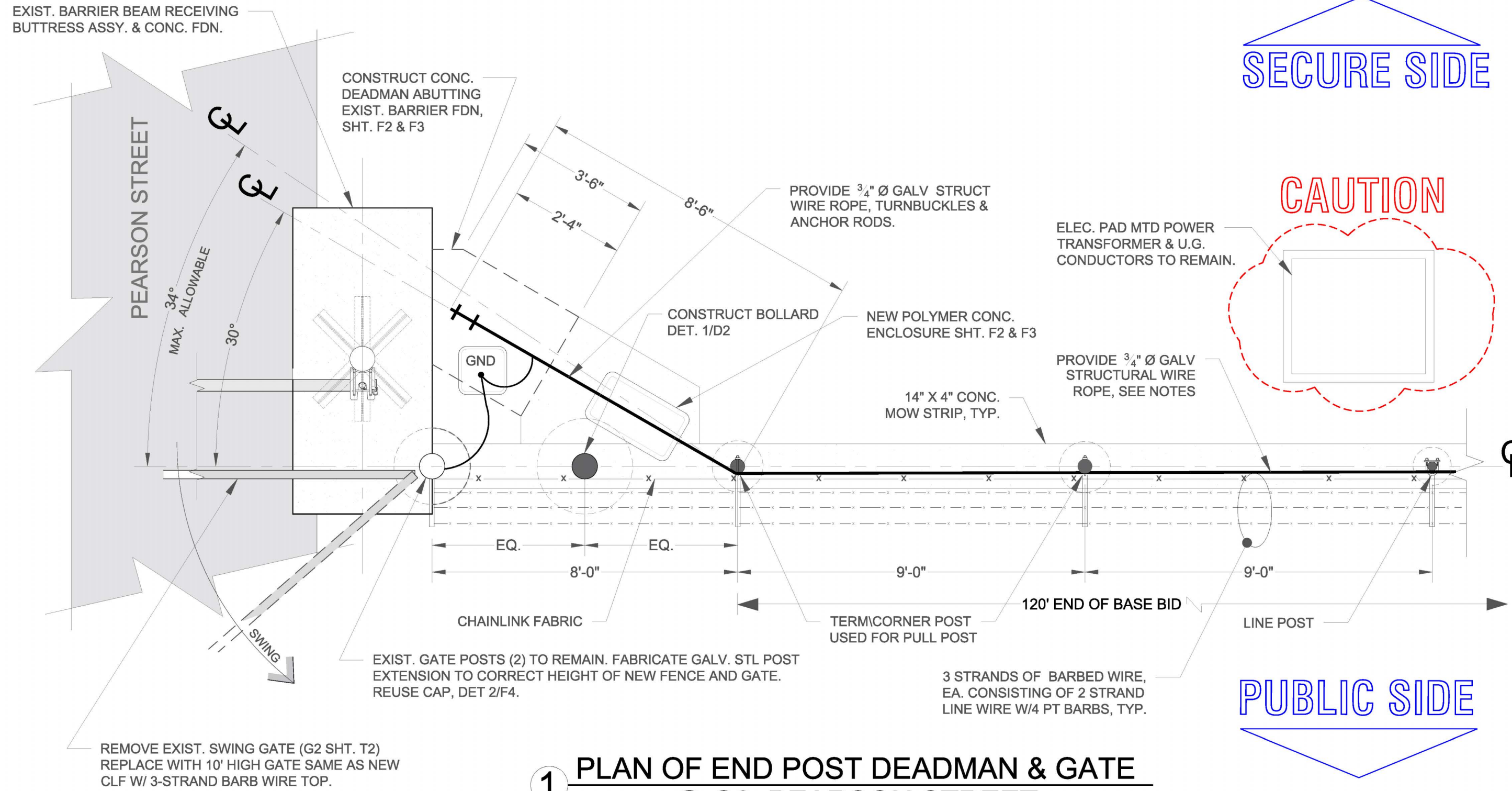
NORTH



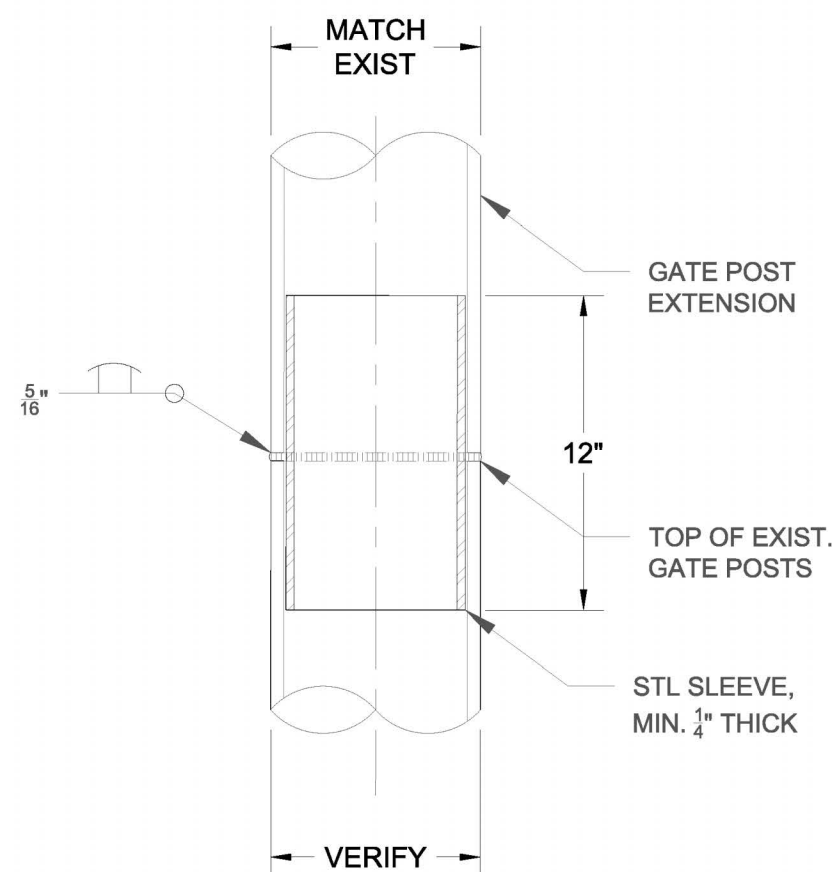
SECURE SIDE

CAUTION

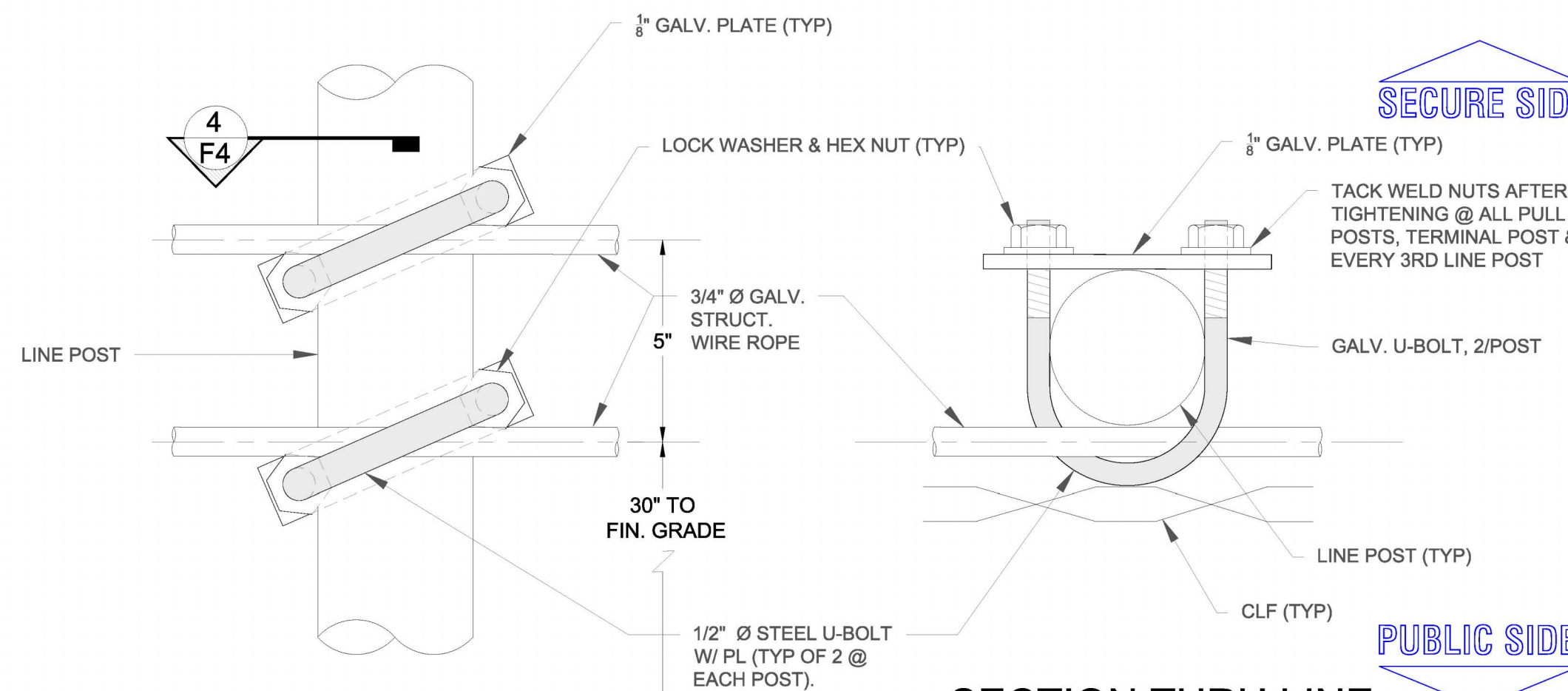
PUBLIC SIDE



1 PLAN OF END POST DEADMAN & GATE @ G2, PEARSON STREET



2 SECTION THRU POST EXTENSION TYPICAL



3 LINE POST BARRIER CABLE CONNECTION

4 SECTION THRU LINE POST

NOTES:

1. BASE BID : ALL WORK ON THIS SHEET IS INCLUDED IN THE BASE BID. SEE SHT. T2 FOR OVERALL PLAN AND SHT. F3 NOTES.
2. DRAWINGS SHOW ONE TERMINAL END OF THE ANTI-RAM VEHICLE BARRIER CABLE RUN. CONSTRUCT THE OPPOSITE END THE SAME OR SIMILAR WITH SOME DEVIATION. EXPECT TO MAKE ADJUSTMENTS FOR SITE CONDITIONS.
3. SEE NOTE 10 - SHT. T2 FOR BOLLARDS ACROSS PEARSON STREET ON THE WEST END OF GATE G2 ON THE SECURE SIDE.
4. SEE SHT. C5 FOR ELECTRICAL GROUNDING REQUIRED. FURNISH & INSTALL IN-GROUND ELEC. BOX, GROUND ROD & CONDUCTORS. BOND THE FENCE, CORNER POST & DEADMAN THREADED RODS TO THE GROUND (GND) ROD IN QUARTZITE BOX WHERE SHOWN.

NOTE: REPAIR ALL GALV. SURFACES WITH ZINC-CADMIUM ALLOYS OR ZINC-TIN LEAD ALLOY COATING (SEE NOTE 8, F3).

 <p>MAY 2020</p> <p>DRAWN BY: DJW</p>	<p>XFGF 192006 UPGRADE MAIN GATE BARRIERS</p> <p>NEW ANTI-RAM VEHICLE BARRIER CABLE</p> <p>WISCONSIN AIR NATIONAL GUARD 115TH FIGHTER WING TRUAX FIELD AIR NATIONAL GUARD BASE 3110 Mitchell Street MADISON, WI 53704-2591 608 245-4571</p>
	<p>PAGE 17 of 17</p> <p>F4</p>