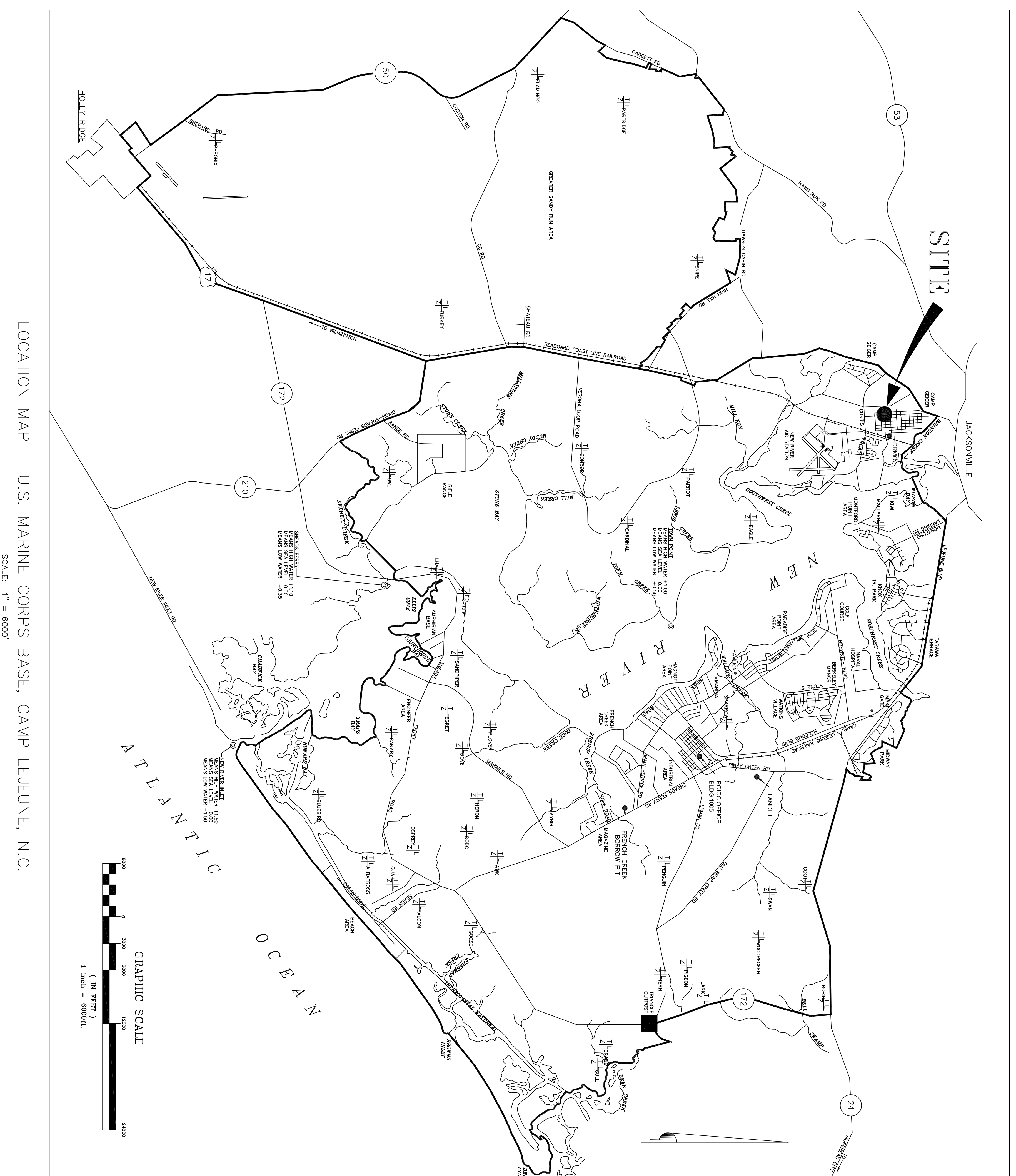
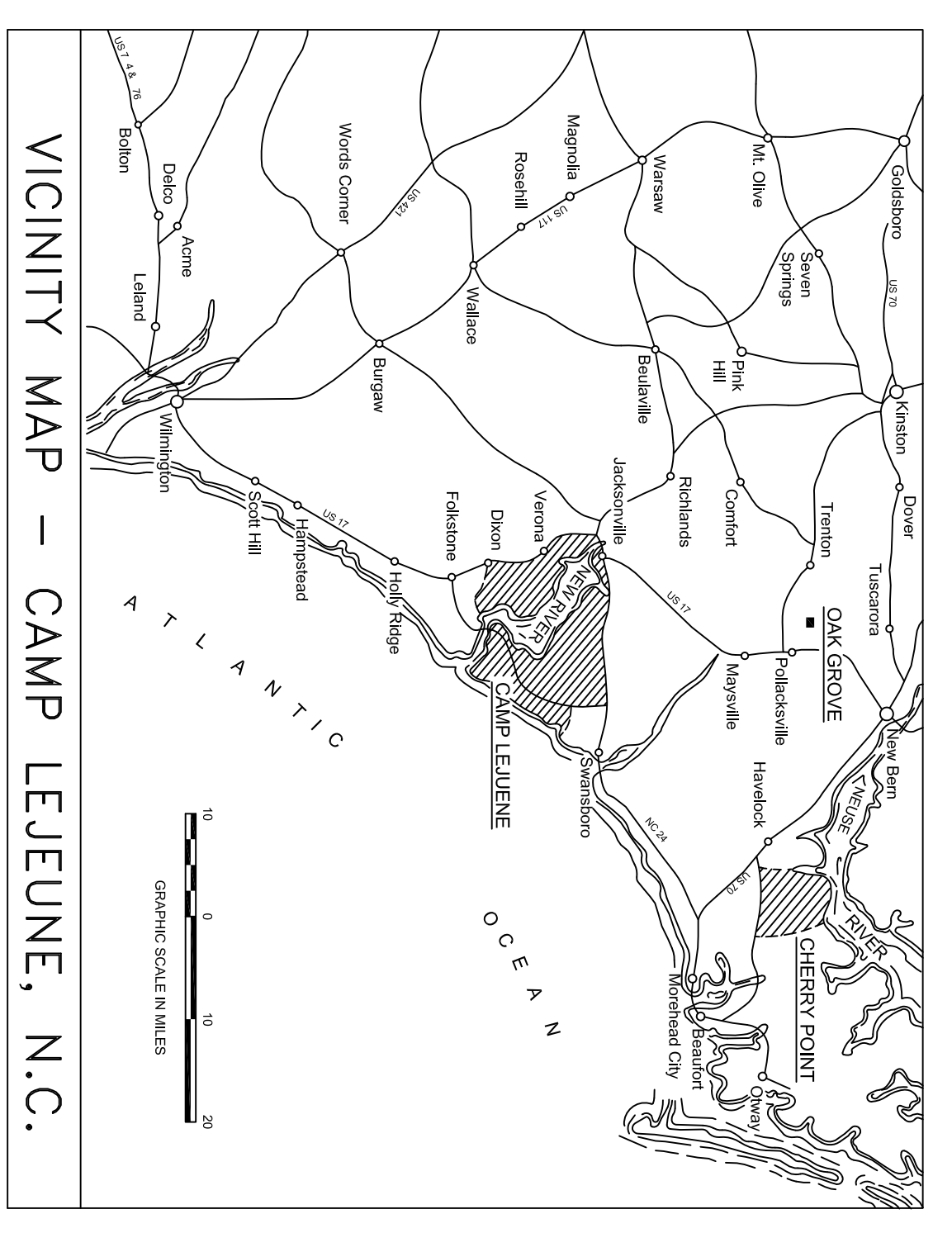
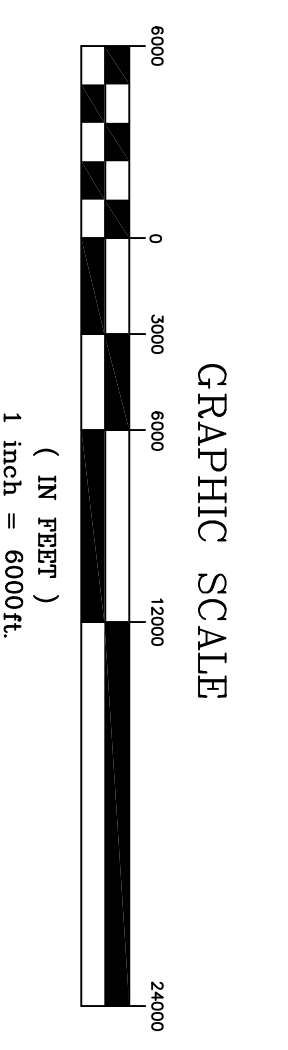




# C16-0045 PAVING AND FENCE G801



LOCATION MAP - U.S. MARINE CORPS BASE, CAMP LEJEUNE, N.C.  
SCALE: 1" = 6000'



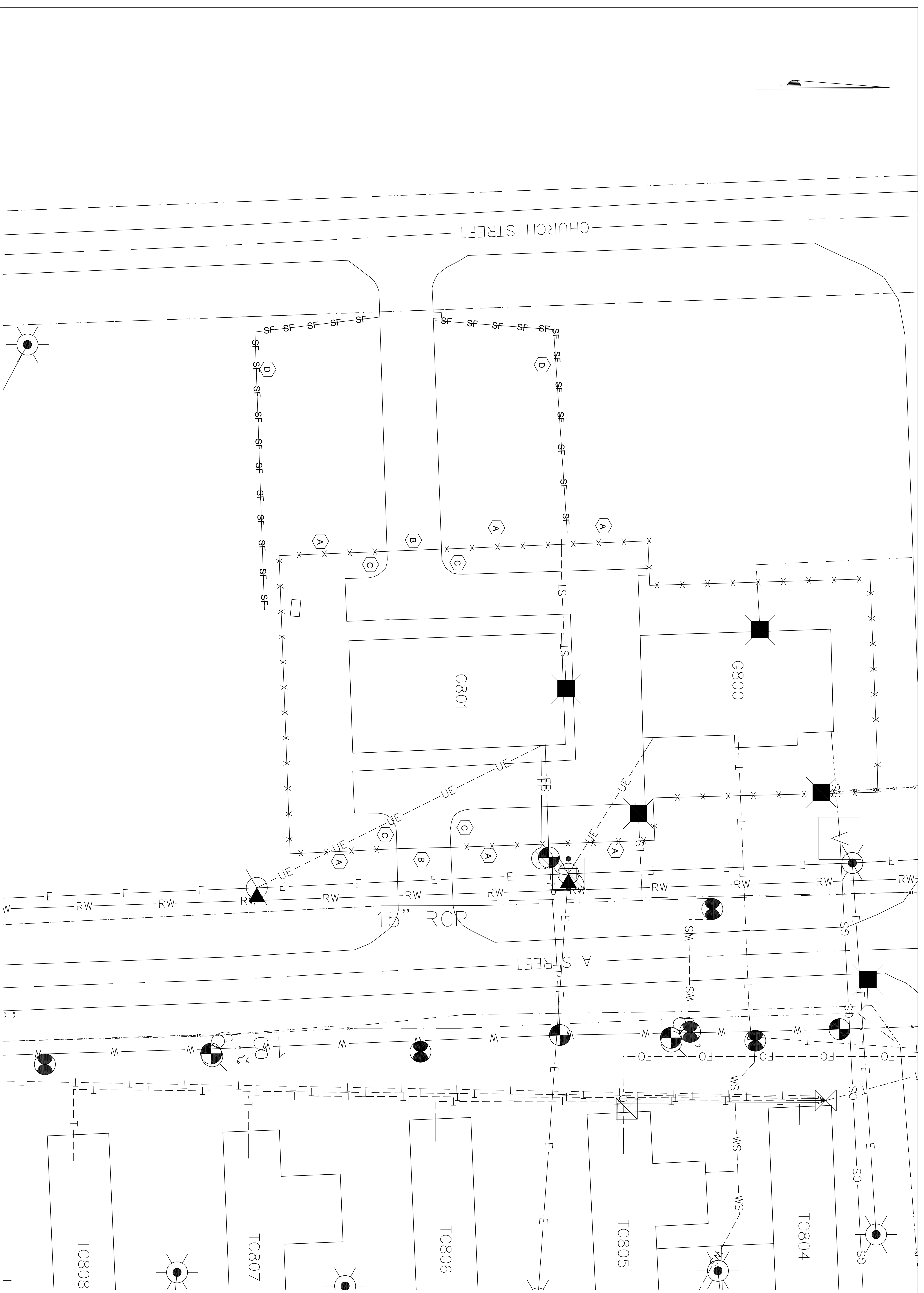
VICINITY MAP - CAMP LEJEUNE, N.C.

DRAWING INDEX		
NAVFAC DWG. NO.	SHEET NO.	TITLE
60077559	T-1	LOCATION AND VICINITY MAP
60077560	C-1	EXISTING CONDITIONS
60077561	C-2	G801 SITE PLAN
60077562	C-3	DETAILS
60077563	C-4	DETAILS

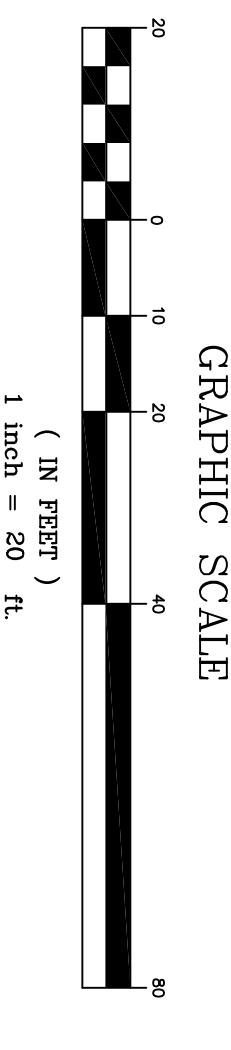
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DES. THOMAS BRADSHAW P.E. DR. THOMAS BRADSHAW P.E. CHK. DAVID TOWLER P.E. SUBMITTED BY: THOMAS BRADSHAW DESIGN DIR. T. BURTON, PE DATE: 6/29/16	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">T-1</div> DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA C16-0045 PAVING AND FENCE G801 LOCATION AND VICINITY MAP FWO DRAWING NO. <b>60017559</b> SIZE CODE IDENT NO. <b>F 80091</b> CONST. CONTR. NO. 440085-16-B-0045 SCALE: AS SHOWN SPEC. 05-16-0045
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EXISTING CONDITIONS/GRADING PLAN



- NOTES KEYPED TO PLAN:
- (A) DEMOLISH 350 LF OF EXISTING 7' CHAIN LINK SECURITY FENCE BACK TO EXISTING CORNER POSTS.
  - (B) DEMOLISH 2 EXISTING 26' DOUBLE LEAF CHAIN-LINK FENCE GATES.
  - (C) DEMOLISH 470 LF OF EXISTING CURB AND GUTTER TO ALLOW FOR EXPANSION OF EXISTING ASPHALT DRIVEWAYS. PLEASE SEE SHEET C2 FOR LOCATION OF ASPHALT EXPANSION.
  - (D) INSTALL 400 LF OF SILT FENCE IN ACCORDANCE WITH DETAIL SHEET C3.

- GENERAL NOTES:
1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO GROUND DISTURBING ACTIVITIES.
  2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
  3. PRESERVE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATING ALL CONSTRUCTION ACTIVITIES WITH RPOIC.
  4. CONTRACTOR SHALL ASSURE THAT NO SEDIMENT LEAVES THE SITE.
  5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL. NECESSARY TO SAFELY CONDUCT CONSTRUCTION ACTIVITIES. SURROUNDING BUILDINGS WILL REMAIN IN OPERATION AND ACCESSIBLE DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO NOT IMPED E FACILITY VEHICLE ACCESS FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH RPOIC.
  6. SOD ANY DISTURBED AREAS IN ACCORDANCE WITH BASE SEEDING SCHEDULE UPON COMPLETION OF CONSTRUCTION.
  7. NO SECTION 404/401 WETLANDS OR SURFACE WATERS WITHIN PROJECT BOUNDARIES.
  8. JOBSITE SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH.
  9. EXISTING FENCE SHALL BE LEFT IN PLACE UNTIL NEW FENCE IS IN PLACE.
  10. TEMPORARY SECURITY MEASURES SHALL BE PUT IN PLACE BY CONTRACTOR AS NECESSARY TO PROVIDE A SECURE PERIMETER AROUND THE FACILITY AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION:

1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO GROUND DISTURBING ACTIVITIES.
2. CONTRACTOR SHALL INSTALL NECESSARY EROSION CONTROL MEASURES TO KEEP SEDIMENT ON SITE.
3. INSTALL NEW FENCE PER SITE PLAN LEAVING EXISTING FENCE IN PLACE WITH THE EXCEPTION OF NEW GATES FOR DRIVEWAY ACCESS OFF A ST.
4. INSTALL 15" RCP CULVERT PIPE FOR A ST DRIVEWAY EXPANSION.
5. DEMOLISH EXISTING CONCRETE CURBING DESIGNATED TO BE REMOVED.
6. DEMOLISH EXISTING ASPHALT DRIVEWAY EXPANSION AREA AS NECESSARY TO MAINTAIN EXISTING DRAINAGE PATTERNS.
7. INSTALL NEW CONCRETE CURBING.
8. PAVE NEW DRIVEWAY EXPANSION.
9. INSTALL REMAINDER OF NEW FENCE AND GATES.
10. SOD ALL DISTURBED AREAS IN ACCORDANCE WITH SEEDING SCHEDULE.

LEGEND	
	EXISTING OPEN DRAINAGE
	EXISTING ELECTRIC
	EXISTING STORM SEWER FLANGED END SECTION
	EXISTING STORM SEWER HEADWALL
	EXISTING FIRE HYDRANT
	EXISTING UTILITY POLE
	EXISTING COMM MANHOLE
	EXISTING SEWER MANHOLE
	EXISTING WATER VALVE BOX
	EXISTING EXTERIOR LIGHTING POINT
	EXISTING COMM RISER POINT
	EXISTING ELECTRICAL RISER POINT
	EXISTING STORM SEWER INLET
	EXISTING WATER BALL VALVE
	NEW OPEN DRAINAGE
	NEW ELECTRIC
	NEW STORM SEWER FLANGED END SECTION
	NEW STORM SEWER HEADWALL
	NEW FIRE HYDRANT
	NEW UTILITY POLE
	NEW COMM MANHOLE
	NEW SEWER MANHOLE
	NEW WATER VALVE BOX
	NEW EXTERIOR LIGHTING POINT
	NEW COMM RISER POINT
	NEW ELECTRICAL RISER POINT
	NEW STORM SEWER INLET
	NEW WATER BALL VALVE
	NEW GRASSED AREA
	NEW PAVEMENT AREA
	AREA TO BE REVAVED

**C-1**

DEPARTMENT OF THE NAVY  
MARINE CORPS BASE  
CAMP LEJUNE, NORTH CAROLINA

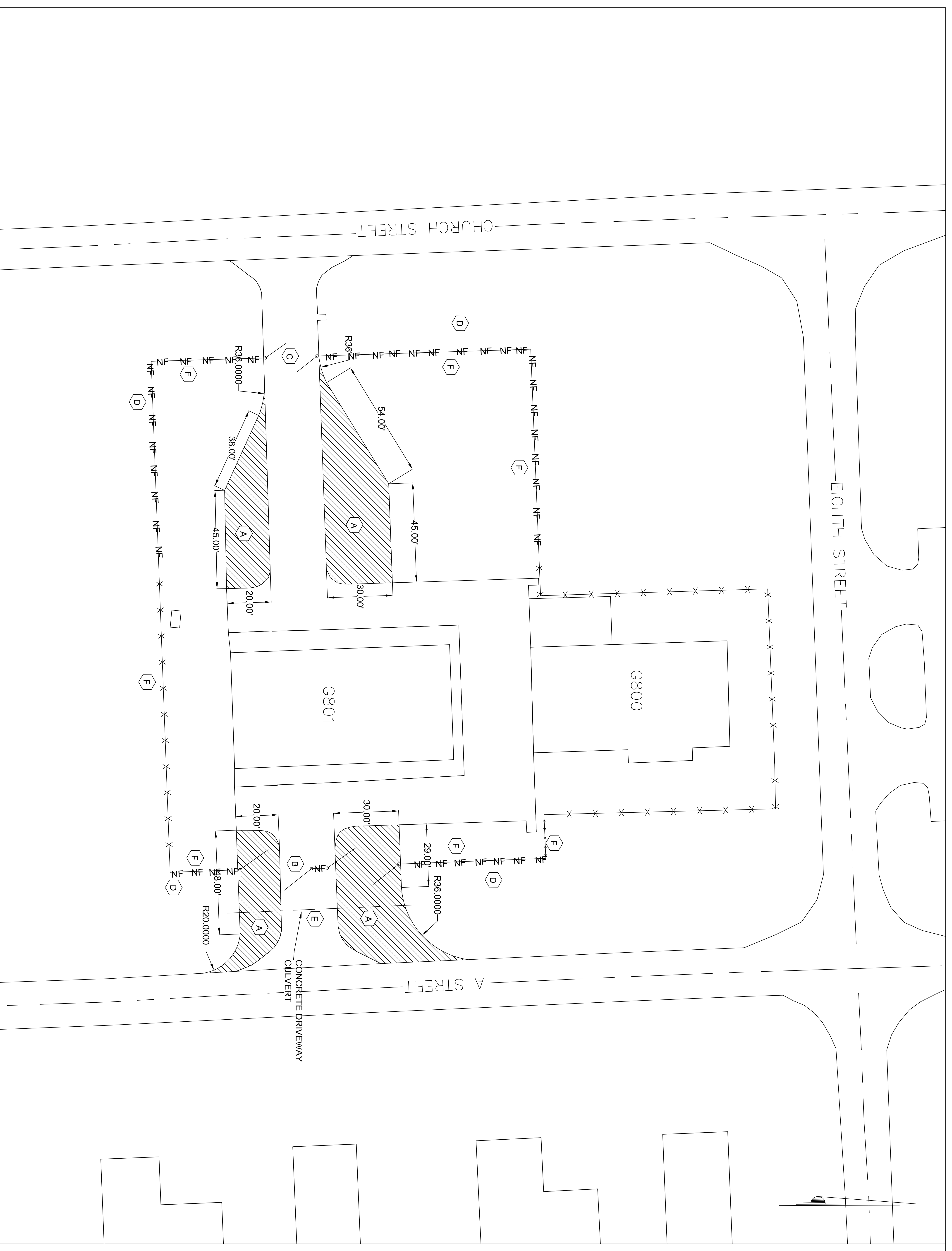
DES. THOMAS BRADSHAW P.E.  
CHK. DAVID TOWLER P.E.  
SUBMITTED BY: THOMAS BRADSHAW  
DESIGN DIR. T. BURTON, P.E.

SIZE CODE IDENT NO. F 80091  
CONST. CONTR. NO. 60017560  
DATE: 6/29/16  
SCALE: AS SHOWN/SPEC. 05-16-0045 SHEET 2 OF 5

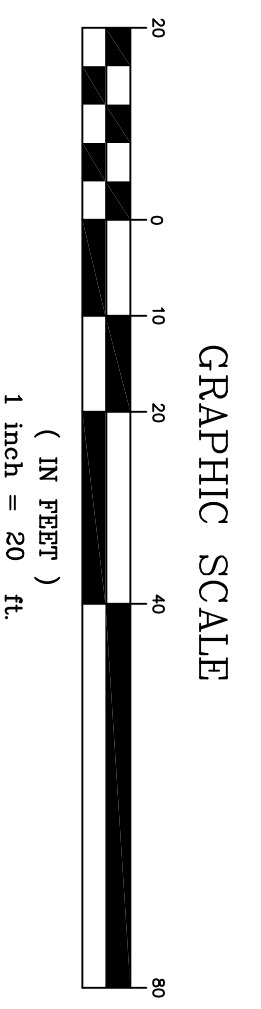
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  - (C) THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.





G801 SITE PLAN



DISCLOSURE OF INFORMATION  
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NOTES KEYED TO PLAN:

- A** EXPAND EXISTING ASPHALT DRIVEWAYS AS SHOWN. TOTAL EXPANSION 6750 SQ FT. THIS SHALL ALSO INCLUDE THE INSTALLATION OF 375 LF OF NEW CONCRETE CURB AND GUTTER IN ACCORDANCE WITH DETAILS SHEET C3. GRADE TO MAINTAIN EXISTING DRAINAGE PATTERNS. ASSUME FOR BIDDING PURPOSES 50 CT OF FILL MATERIAL.
- B** PROVIDE TWO NEW 33" DOUBLE-LEAF CANTILEVER SWING GATES. PLEASE SEE ASSOCIATED DETAIL SHEET C3.
- C** PROVIDE ONE NEW 26" DOUBLE-LEAF CANTILEVER SWING GATE. PLEASE ASSOCIATED DETAIL SHEET C4.
- D** INSTALL 450 LF OF NEW 7' CHAIN-LINK SECURITY FENCE IN ACCORDANCE WITH DETAILS SHEET C4.
- E** REMOVE FLARED END SECTIONS AND EXTEND EXISTING 15" ROP CULVERT UNDER DRIVEWAY TO THE DRIVEWAY WIDENING. SEE PIPE BEDDING DETAIL SHEET C3 FOR PIPE BEDDING GUIDANCE.
- F** INSTALL ALUMINUM PRIVACY SLATS ON ALL FENCING AND GATES SURROUNDING BUILDING G801 ONLY.(700 LF TOTAL FENCE/GATE)

GENERAL NOTES:

- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO GROUND DISTURBING ACTIVITIES.
  - CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
  - PRESERVE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
  - CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ROICC.
  - CONTRACTOR MUST ASSURE THAT NO SEDIMENT LEAVES THE SITE.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO NOT IMPERE FACILITY VEHICLE ACCESS FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH BASE PMO (451-8381).
  - SOD ANY DISTURBED AREAS IN ACCORDANCE WITH BASE SEEDING SCHEDULE UPON COMPLETION OF CONSTRUCTION.
  - NO SECTION 404/401 WETLANDS OR SURFACE WATERS WITHIN PROJECT BOUNDARIES SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH.
  - EXISTING FENCE SHALL BE LEFT IN PLACE UNTIL NEW FENCE IS IN INSTALLED TO THE MAXIMUM EXTENT PRACTICAL.
  - TEMPORARY SECURITY MEASURES SHALL BE PUT IN PLACE BY CONTRACTOR AS NECESSARY TO PROVIDE A SECURE PERIMETER AROUND THE FACILITY AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- SEQUENCE OF CONSTRUCTION:
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO GROUND DISTURBING ACTIVITIES.
  - CONTRACTOR SHALL INSTALL NECESSARY EROSION CONTROL MEASURES TO KEEP SEDIMENT ON SITE.
  - INSTALL NEW FENCE PER SITE PLAN LEAVING EXISTING FENCE IN PLACE WITH THE EXCEPTION OF NEW GATES FOR DRIVEWAY ACCESS OFF A ST.
  - INSTALL 15" ROP CULVERT PIPE FOR A ST DRIVEWAY EXPANSION.
  - DEMOLISH ALL EXISTING CONCRETE CURBING DESIGNATED TO BE REMOVED.
  - GRADE DRIVEWAY EXPANSION AREA AS NECESSARY TO MAINTAIN EXISTING DRAINAGE PATTERN AND EXISTING CURBING.
  - REMOVE EXISTING CONCRETE CURBING.
  - PAVE NEW DRIVEWAY EXPANSION.
  - INSTALL REMAINDER OF NEW FENCE AND GATES.
  - SOD ALL DISTURBED AREAS IN ACCORDANCE WITH SEEDING SCHEDULE.

LEGEND

EXISTING	NEW	EXISTING
—E— OPEN DRAINAGE	▲ STORM SEWER FLARED END SECTION	○ STORM SEWER HEADWALL
—GS— GRAVITY SEWER	○ FIRE HYDRANT	○ UTILITY POLE
—ST— STORM SEWER	⊙ COMM MANHOLE	⊙ SEWER MANHOLE
—WS— WATER SERVICE	⊙ SEWER MANHOLE	⊙ WATER VALVE BOX
—W— WATER MAIN	⊙ FIBER OPTIC	⊙ TELEPHONE
—FP— FIRE PROTECTION	⊙ TELEPHONE	⊙ STEAM
—FO—	⊙ SILT FENCE	—SF— SECURITY FENCE
—T—	⊙ NEW PAVEMENT AREA	—NF—
—S—	⊙ COMM RISER POINT	⊙ ELECTRICAL RISER POINT
—X—	⊙ SEWER CLEANOUT	⊙ STORM SEWER INLET

C-2

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND  
MARINE CORPS BASE  
CAMP LEJUNE, NORTH CAROLINA

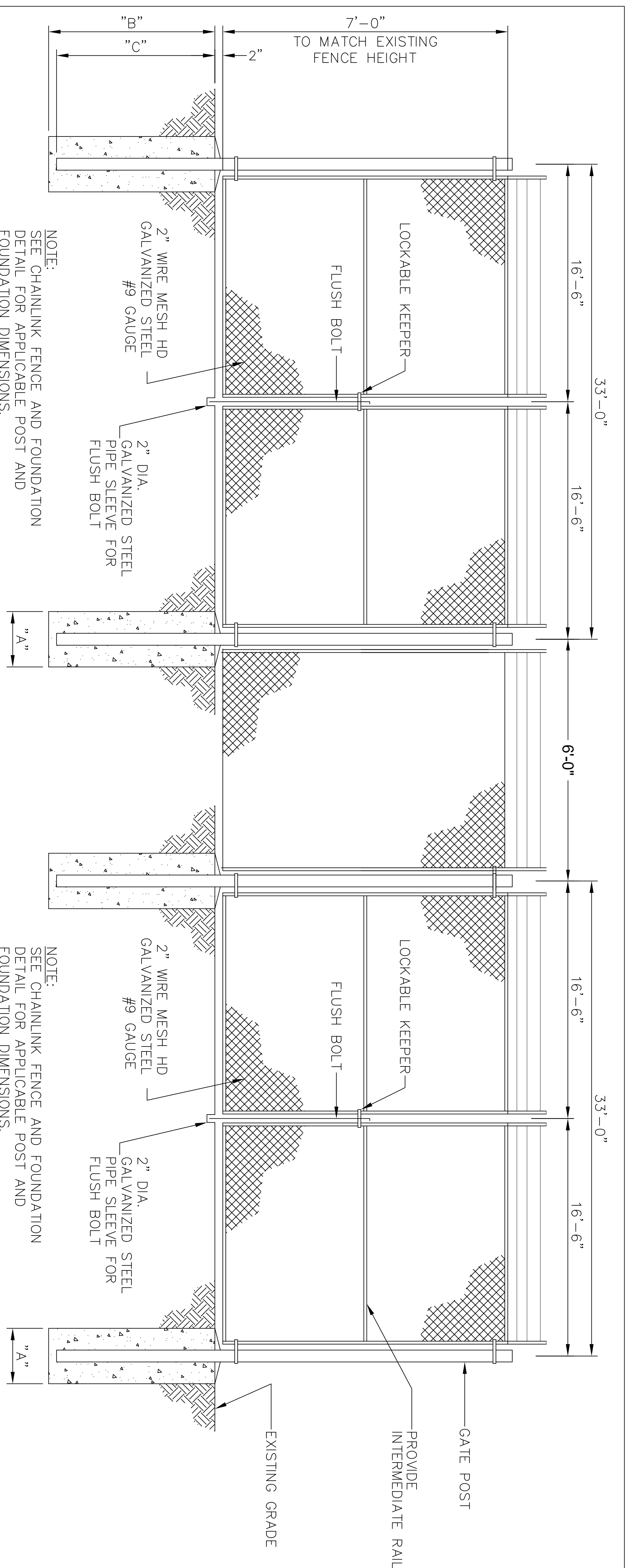
C16-0045  
PAVING AND FENCE  
G801

DES. THOMAS BRADSHAW P.E.  
CHK. DAVID TOWLER P.E.  
SUBMITTED BY: THOMAS BRADSHAW  
DESIGN DIR. T. BURTON, P.E.

DATE: 6/29/16

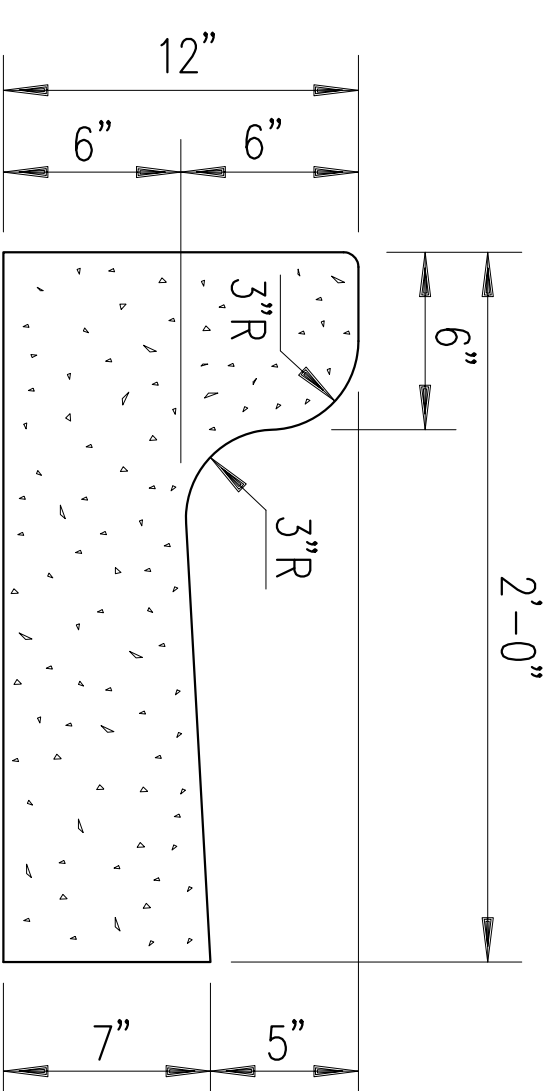
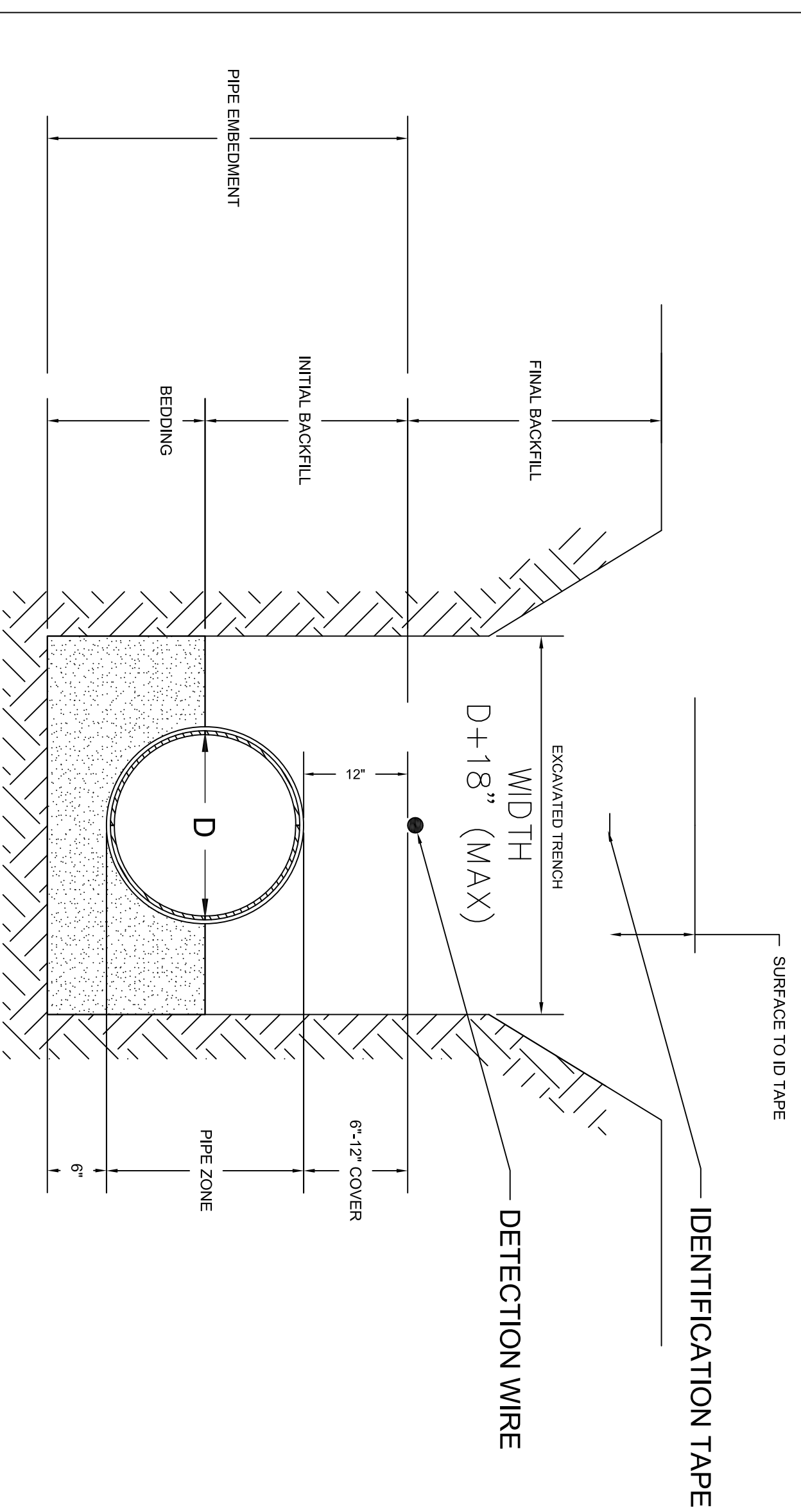
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PWO DRAWING NO. 60017561  
CONST. CONTR. NO.44005-16-B-0045

SCALE: AS SHOWN SPEC. 05-16-0045 SHEET 3 OF 5



**DOUBLE-DOUBLE SWING GATE DETAIL**

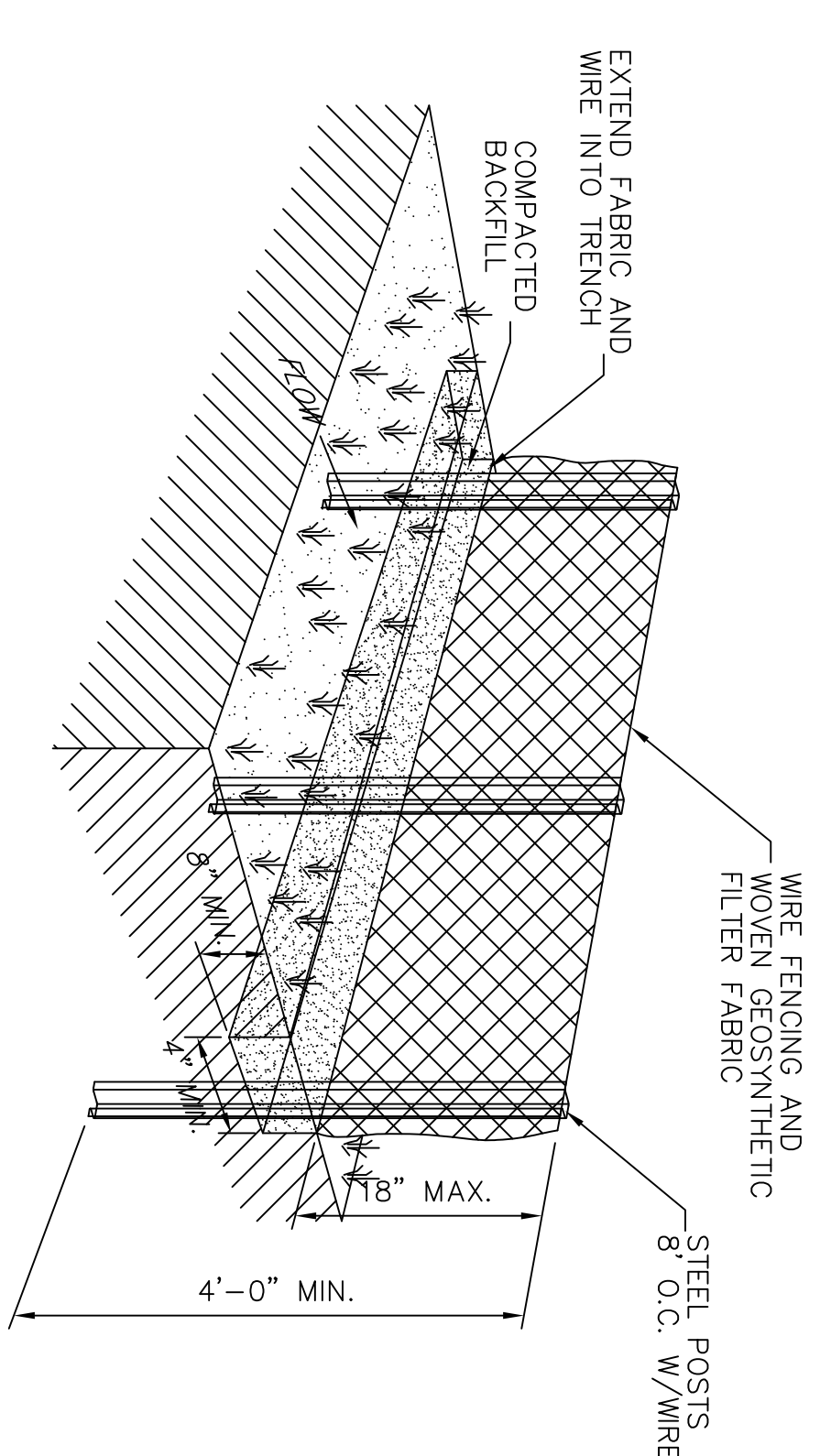
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- NOTES:
1. CURB AND GUTTER IS TO BE CONSTRUCTED IN 10' (NOM.) LENGTHS.
  2. 2" THICK EXPANSION JOINTS ARE TO BE PROVIDED AT 90.0' MAX. SPACING.
  3. PROVIDE 10' LONG TRANSITIONS BETWEEN STANDARD GUTTER AND PITCHED GUTTER UNLESS OTHERWISE NOTED ON GRADING PLAN.

**CONC. CURB AND GUTTER**

NO SCALE



**CONSTRUCTION SPECIFICATION**

**MATERIALS:**

1. USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461, WHICH IS SHOWN IN PART IN TABLE 6.62B.
2. ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
3. FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.
4. FABRIC SHALL BE INSTALLED ON THE UPSLOPE SIDE OF THE WIRE FENCING.

**SILT FENCE**

NOTE:

NOT TO SCALE

**SEEDING SCHEDULE**

VEGETATIVE SEEDING  
AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS SHALL BE TEMPORARILY SEEDDED AND PERMANENTLY SODDED TO THE FOLLOWING SPECIFICATIONS:

SEED BED (JANUARY THROUGH DECEMBER)  
LIME 1-1/2 TON PER ACRE  
FERTILIZER 1/2-TON PER ACRE  
TEMPORARY SEED (JANUARY THROUGH DECEMBER)  
TO BE PROVIDED IN ADDITION TO OTHER SEEDS LISTED  
RYE GRASS 50 LBS PER ACRE  
SWITCH GRASS 9 LBS PER ACRE  
PERMANENT VEGETATION (JANUARY THROUGH DECEMBER)  
SOD SHALL BE INSTALLED AT ALL DISTURBED AREAS UPON COMPLETION OF WORK.

**PROCEDURE**

STRAW MULCH SHALL BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEEDDED AREA. THE STRAW AND SOWN SEED WILL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING.

**GUIDELINES FOR BEDDING DETAILS, STORM SEWER PIPE**

NOT TO SCALE

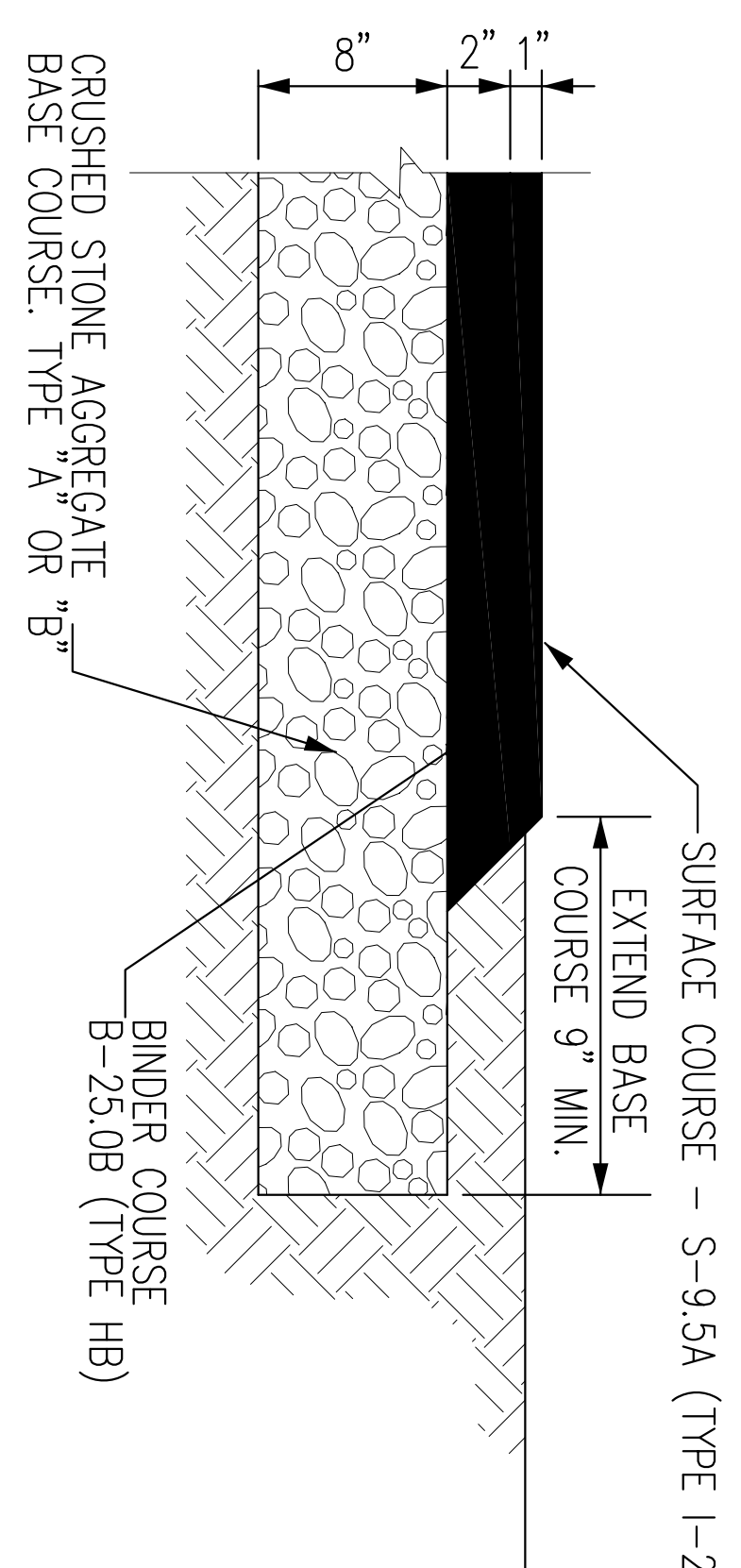
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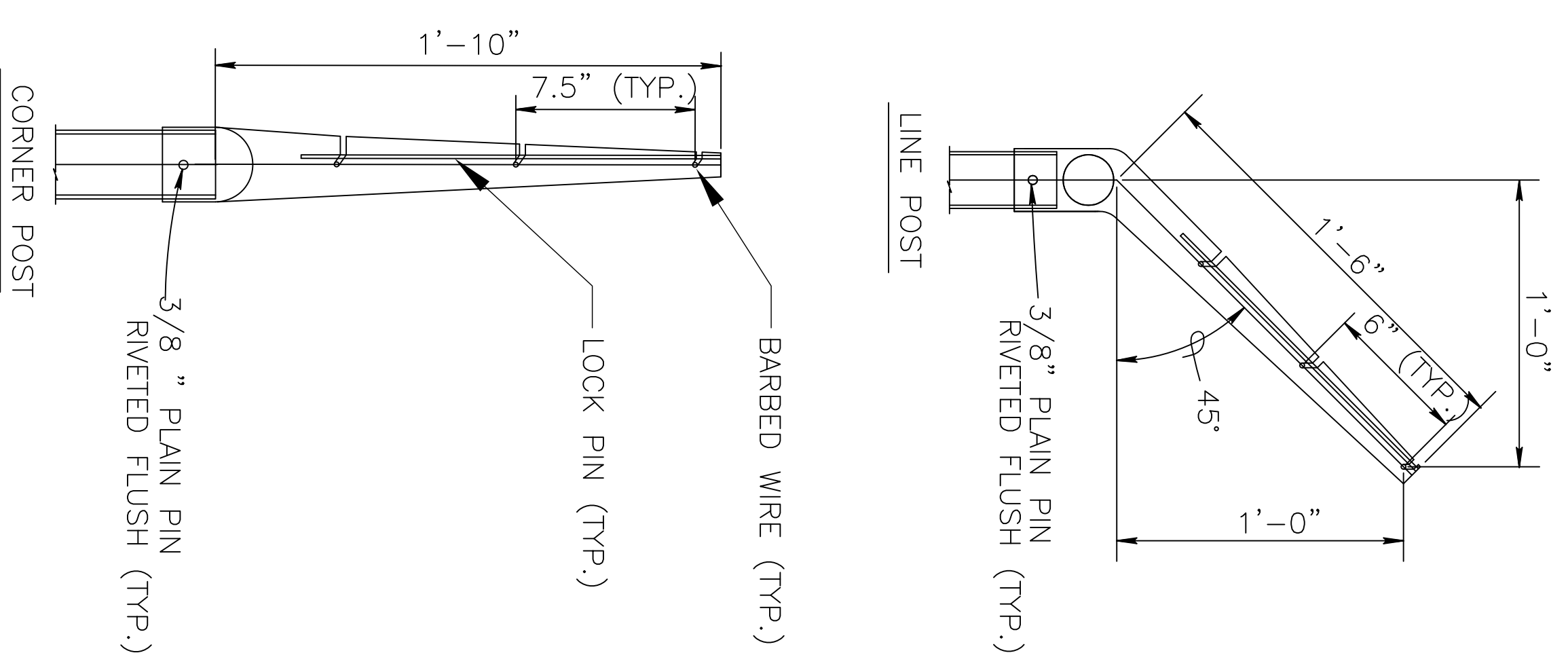


**BITUMINOUS CONC. PAVING**

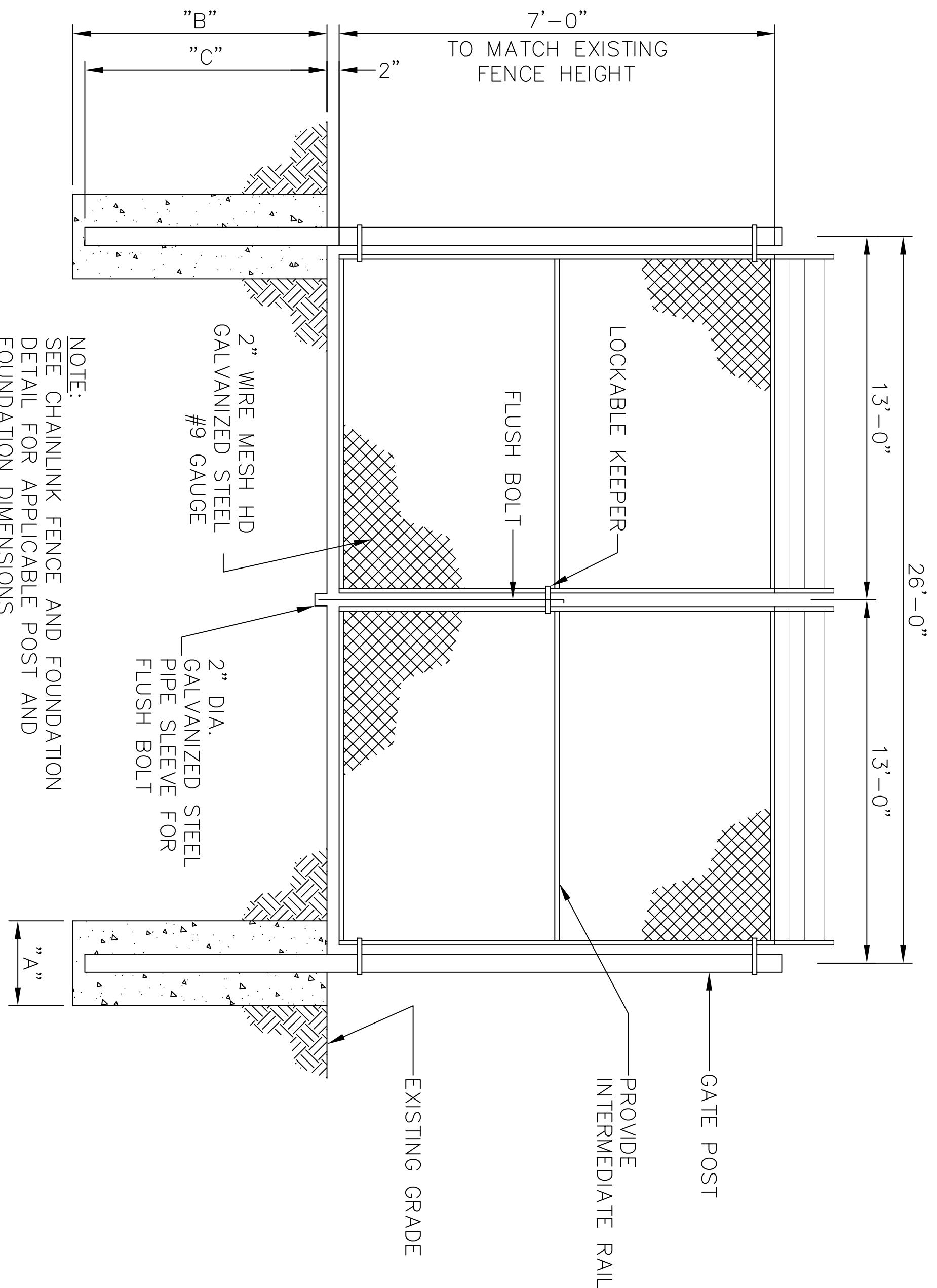
NO SCALE

<p align="center"><b>C-3</b></p>		<p>DES. THOMAS BRADSHAW P.E.</p> <p>DR. THOMAS BRADSHAW P.E.</p> <p>CHK. DAVID TOWLER P.E.</p> <p>SUBMITTED BY THOMAS BRADSHAW</p> <p>DESIGN DIR. T. BURTON, P.E.</p> <p>DATE: 6/29/16</p>	<p>DEPARTMENT OF THE NAVY</p> <p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p><b>MARINE CORPS BASE</b></p> <p>CAMP LEJUNE, NORTH CAROLINA</p> <p>C16-0045</p> <p><b>PAVING AND FENCE</b></p> <p>6801</p>
		<p>SIZE CODE IDENT NO.</p> <p><b>F 80091</b></p> <p>CONST. CONTR. NO. 1440085-16-B-0045</p> <p>SCALE: AS SHOWN SPEC. 05-16-0045 SHEET 4 OF 5</p>	<p>NO DRAWING NO.</p> <p><b>60017562</b></p>

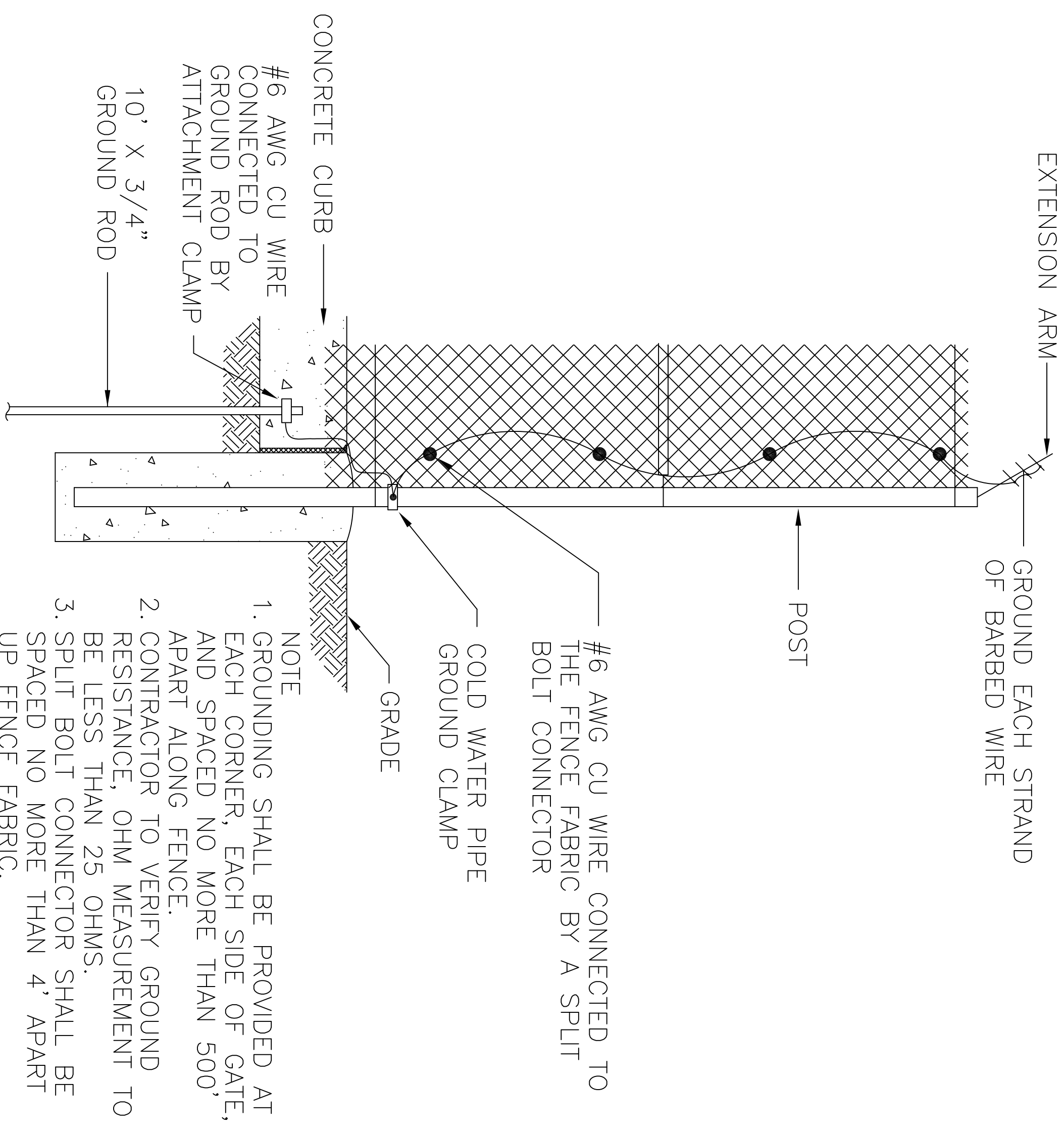




**SINGLE EXTENSION ARM DETAILS**  
N.T.S.



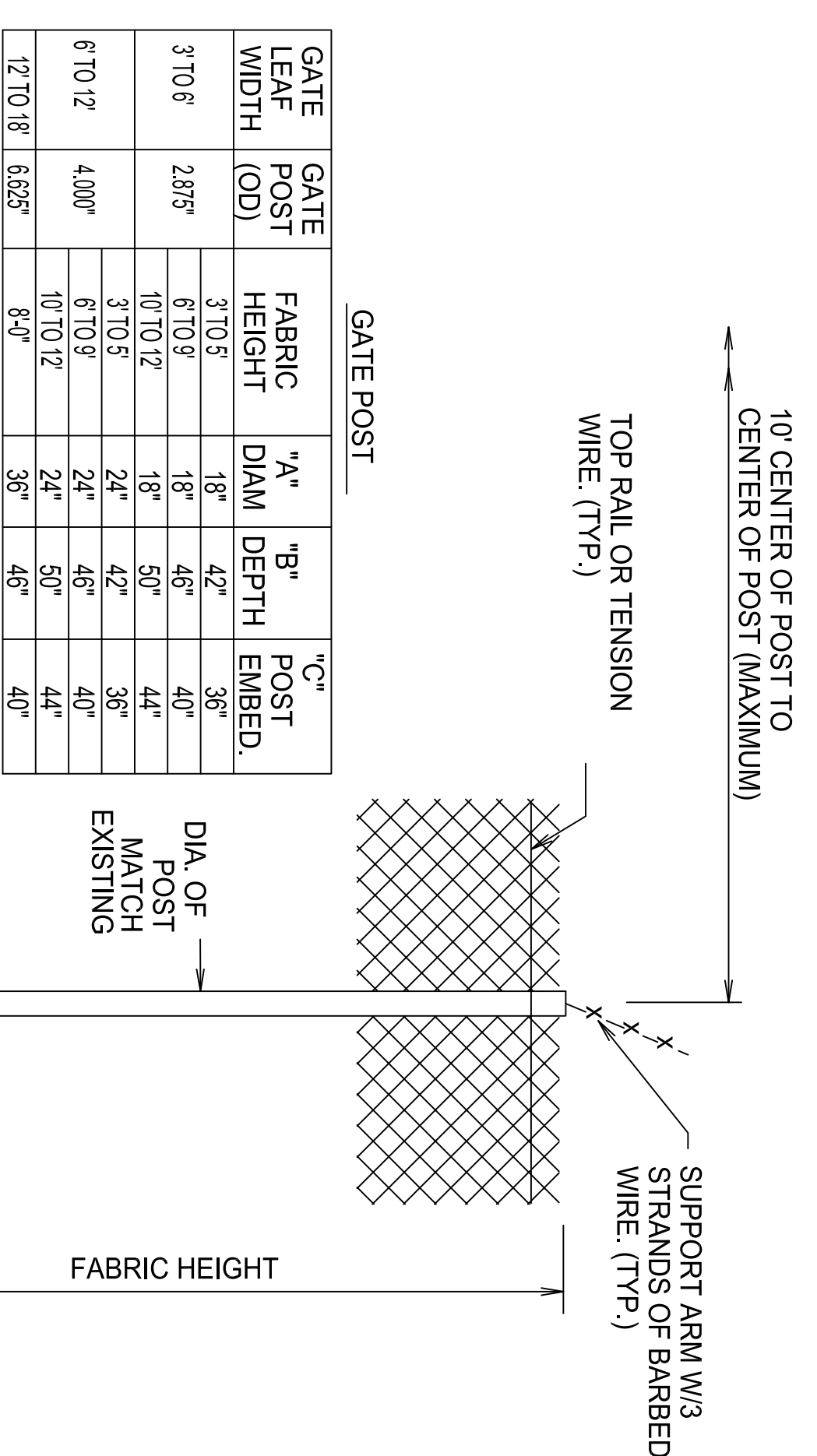
**DOUBLE SWING GATE DETAIL**



- NOTE**
1. GROUNDING SHALL BE PROVIDED AT EACH CORNER, EACH SIDE OF GATE, AND SPACED NO MORE THAN 500' APART ALONG FENCE.
  2. CONTRACTOR TO VERIFY GROUND RESISTANCE, OHM MEASUREMENT TO BE LESS THAN 25 OHMS.
  3. SPLIT BOLT CONNECTOR SHALL BE SPACED NO MORE THAN 4' APART UP FENCE FABRIC.
  4. FOR FENCE DETAIL SEE "CHAIN-LINK SECURITY FENCE DETAIL."

**FENCE GROUNDING DETAIL**  
GFFEN32C

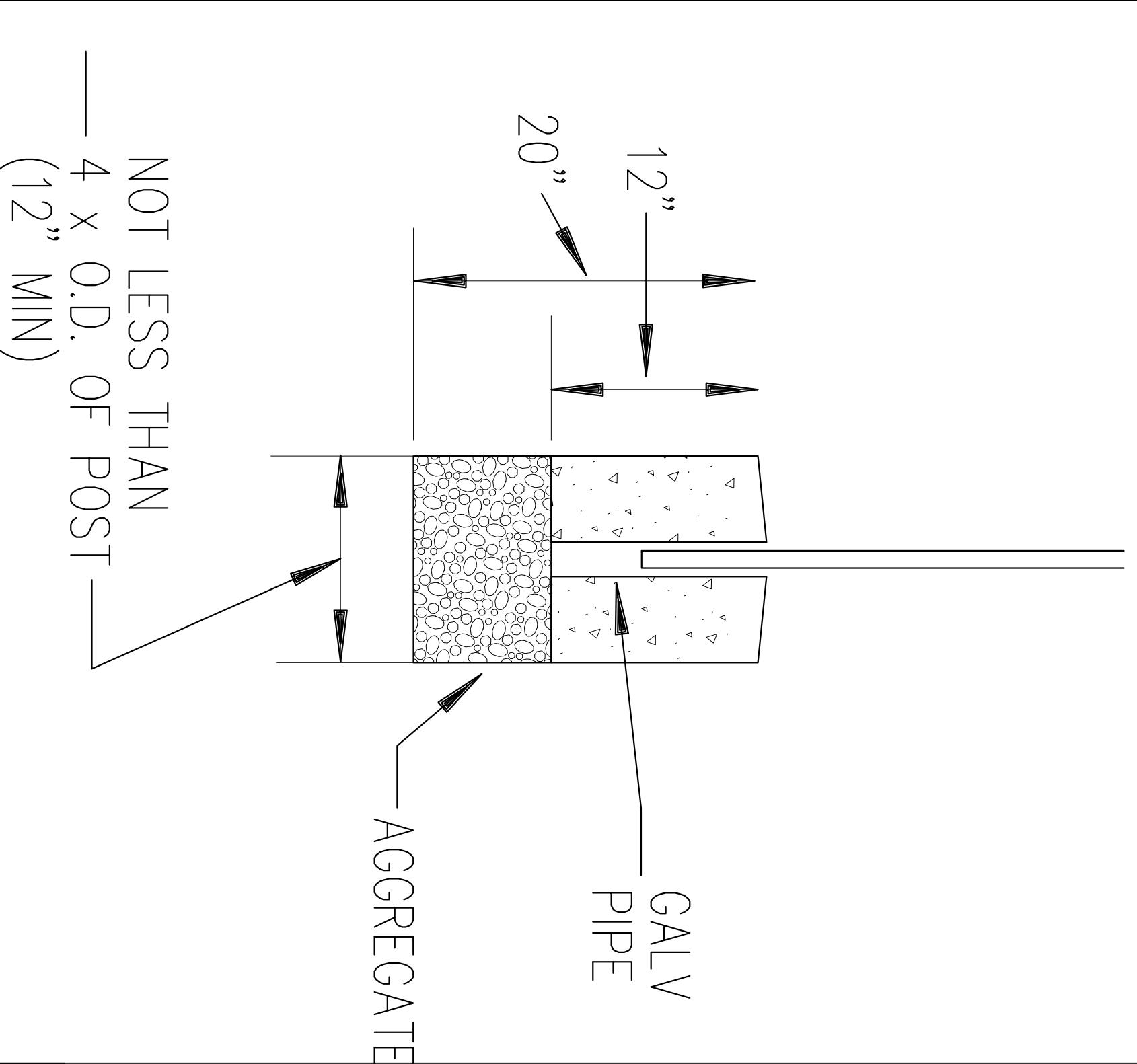
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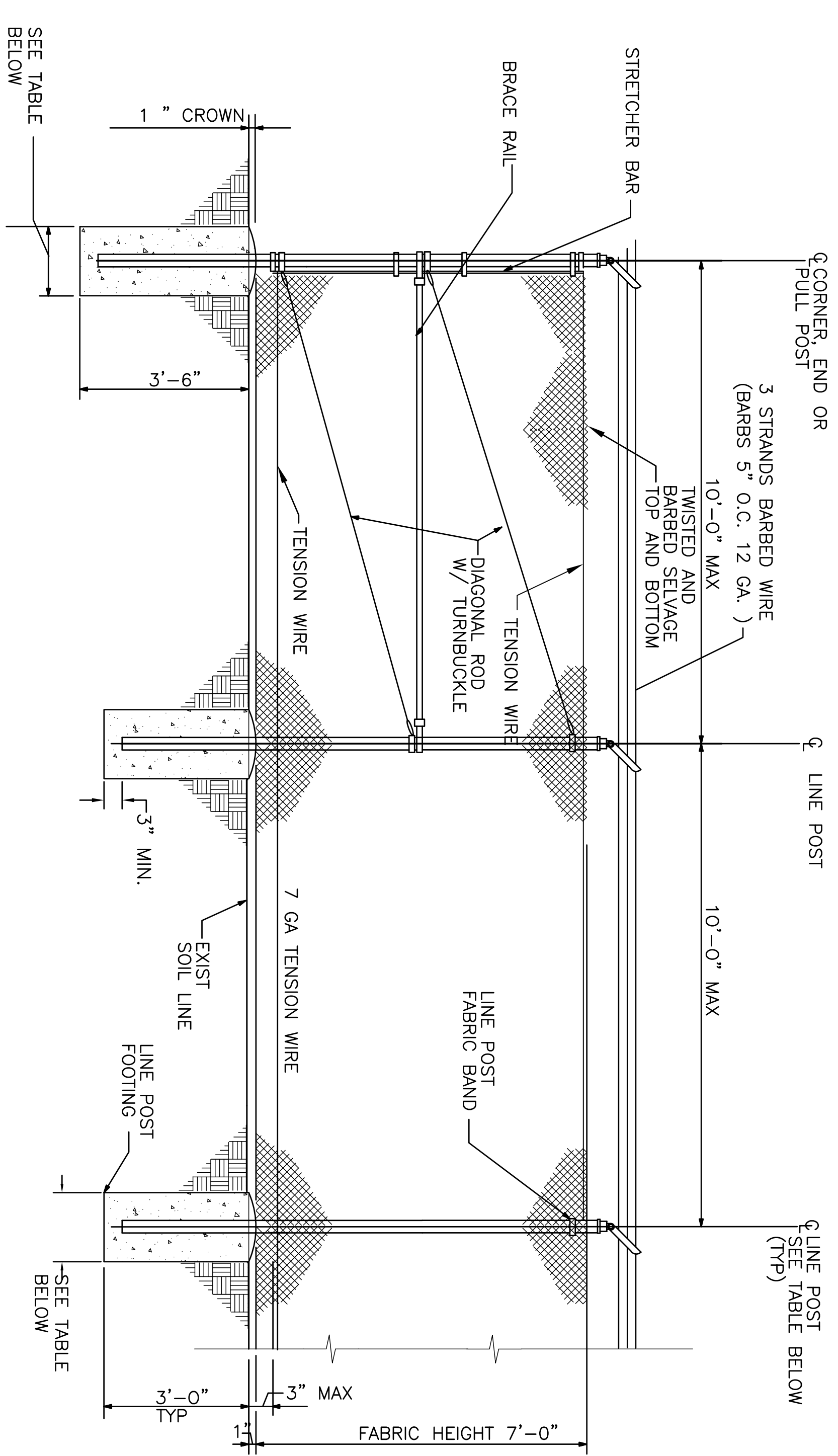
**LINE AND TERMINAL POSTS**

FABRIC HEIGHT	TYPE	"A" POST DIAM	"B" POST DEPTH EMBEDMENT	"C" POST DEPTH EMBEDMENT
3'0" TO 4'0"	LINE	3"	30"	24"
3'0" TO 4'0"	TERMINAL	3"	36"	30"
5'-0"	LINE	4"	36"	30"
5'-0"	TERMINAL	4"	42"	36"
6'0" TO 6'6"	LINE	4"	42"	36"
6'0" TO 6'6"	TERMINAL	4"	48"	42"
10'0" TO 12'0"	LINE	4"	42"	36"
10'0" TO 12'0"	TERMINAL	4"	48"	42"
13'0" TO 16'0"	LINE	4"	48"	40"
13'0" TO 16'0"	TERMINAL	4"	54"	40"

**CHAIN LINK FENCE FOUNDATION**  
N.T.S.



**SWING GATE STOP FOUNDATION**  
N.T.S.



**CHAINLINK FENCE DETAILS**  
SCALE: NOT TO SCALE

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**C-4**

DEPARTMENT OF THE NAVY    NAVAL FACILITIES ENGINEERING COMMAND  
**MARINE CORPS BASE**  
CAMP LEVINE, NORTH CAROLINA

PAVING AND FENCING  
6801

DES. THOMAS BRADSHAW  
CHK. DAVID TOWLER  
SUBMITTED BY: THOMAS BRADSHAW  
DESIGN DIR. T. BURTON, P.E.  
DATE: 6/29/16

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