MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
ST. LOUIS, MISSOURI

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

MISSOURI NATIONAL GUARD
OFFICE OF THE ADJUTANT GENERAL
FACILITIES MANAGEMENT OFFICE

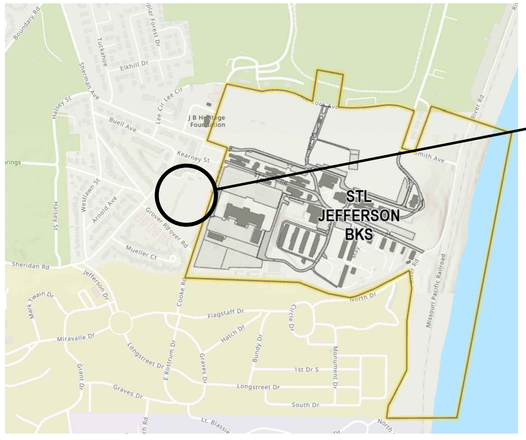
PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: MITCH STROTHER PE
MISSOURI ARMY NATIONAL GUARD

PROJECT NUMBER: T2504-01

SITE NUMBER: 6303
ASSET NUMBER: 8136303050

SHEET INDEX:



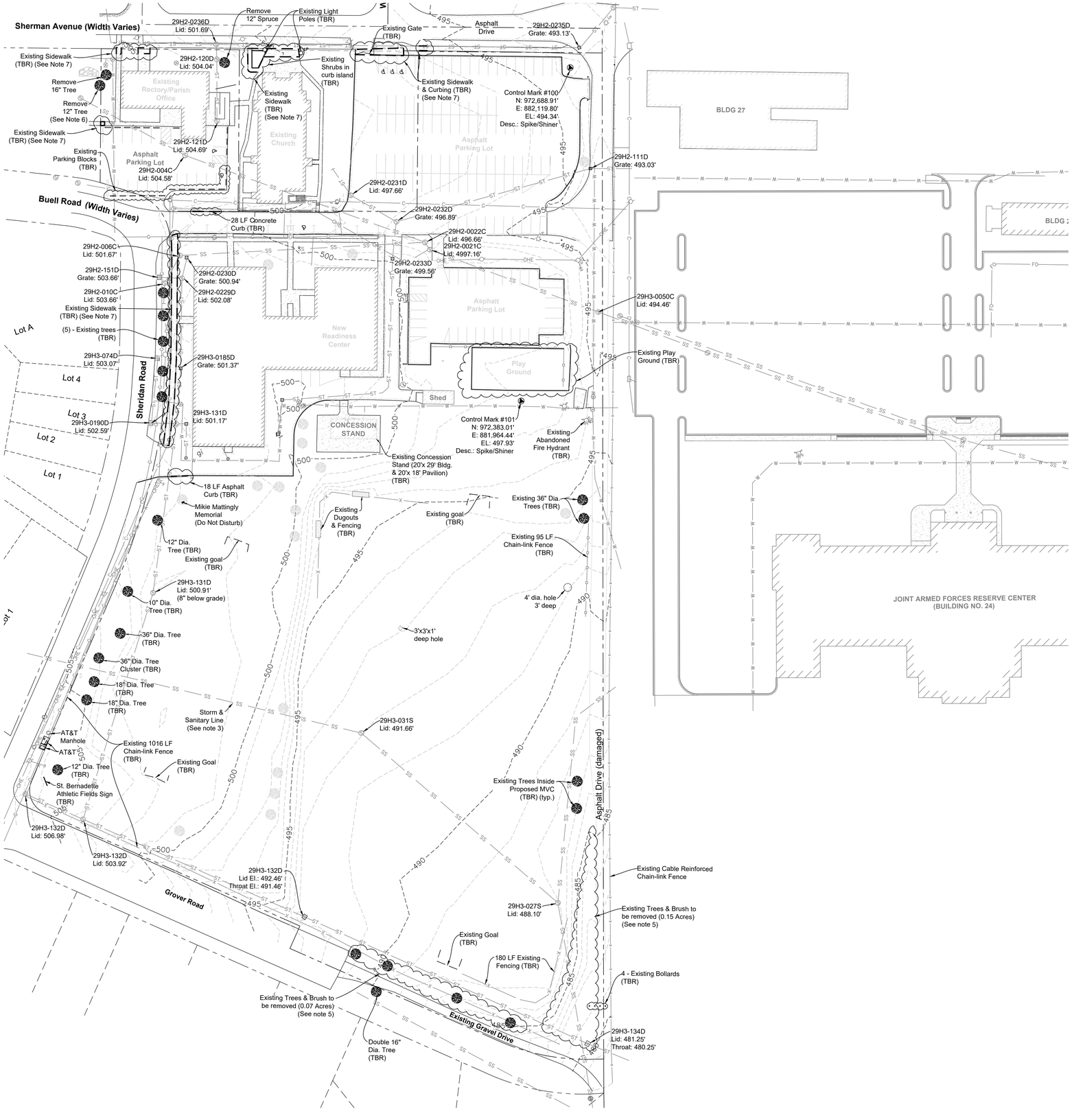
PROJECT LOCATION
ADDRESS:
74 KEARNEY STREET
ST. LOUIS, MO 63125

COORDINATES:
38.504, -90.285

SHEET NUMBER:
G-001

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

1 OF 15 SHEET
July 1, 2026



Grid North / East Zone
Missouri Coordinate System of 1983

0' 50' 100'

Scale 1" = 50'

GENERAL NOTES:

1. EXISTING UTILITIES DEPICTED ON THESE PLANS ARE BASED ON UTILITIES VISIBLE DURING THE SITE SURVEY AND/OR PER AVAILABLE SURVEYS AND RECORDS; THEREFORE, LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES, THE EXISTENCE OF WHICH, AT PRESENT, IS NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, UTILITY LOCATES WILL BE REQUIRED PRIOR TO CONSTRUCTION. CONTACT THE MISSOURI ONE CALL SYSTEM AT 1-800-DIG-RITE (1-800-344-7483) PRIOR TO EXCAVATION OR DEMOLITION.
2. HORIZONTAL & VERTICAL CONTROL WERE DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S REAL-TIME NETWORK. THE HORIZONTAL CONTROL IS UTILIZING THE MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE, CONVERTED TO U.S. SURVEY FEET AND THE VERTICAL CONTROL IS BASED FROM NAVD88 DATUM.
3. THE STORM & SANITARY SEWER LINE IS SHOWN PER "ME 1" DRAWING BY HARRY C. LEPIQUE ARCHITECT DATED 09-24-1964. THIS LINE HAS NOT BEEN FIELD VERIFIED.
4. ALL TREES LEFT IN PLACE NEAR THE PERIMETER FENCE WILL HAVE ALL BRANCHES REMOVED TO A HEIGHT OF 10 FEET ABOVE GROUND FOR VISIBILITY AND LINE OF SITE.
5. CONTRACTOR SHALL REMOVE ALL ITEMS LISTED AS "TO BE REMOVED" AND LEGALLY DISPOSE OF OFF-SITE.
6. THE 12" HOLLY TREE IS LOCATED ON THE ADJACENT PROPERTY. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH OWNER.
7. CONTRACTOR SHALL SAW-CUT AND REMOVE EXISTING CONCRETE SIDEWALK/PAVING IN AREAS DEPICTED ON THIS SHEET. CONTRACTOR SHALL REPLACE CONCRETE WITH TOPSOIL THEN SEED AND STRAW.

CONCRETE SIDEWALK/PAVEMENT REMOVAL:

BASE BID - 1515 SF CONCRETE SIDEWALK, AND 28 LF OF CONCRETE CURB

ALTERNATE NO. 1 - 820 SF CONCRETE SIDEWALK/PAVEMENT, AND 90 LF CONCRETE CURB

LEGEND

MAJOR CONTOUR	930
MINOR CONTOUR	
EXISTING CHAIN LINK FENCE	X X
PROPERTY LINE	
OVERHEAD ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC LINE	UGE UGE
SANITARY SEWER LINE	SS SS
WATER LINE	W W W
STORM SEWER LINE	ST ST ST
GAS LINE	G G
COMMUNICATION LINE	C C
STORM INLET	
SANITARY SEWER MANHOLE	
COMMUNICATION MANHOLE	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
LIGHT POLE	
UTILITY POLE & GUY WIRE	
CONTROL MARK	
TREE (TO REMAIN)	
TREE (TO BE REMOVED)	
TO BE REMOVED	TBR

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI · MITCHELL L. STROTHER · NUMBER E-024556 · REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:34:18 -05'00'

MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD
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6819A N. BOUNDARY ROAD
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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT # T2504-01
SITE # 6303
ASSET # 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: T250401
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

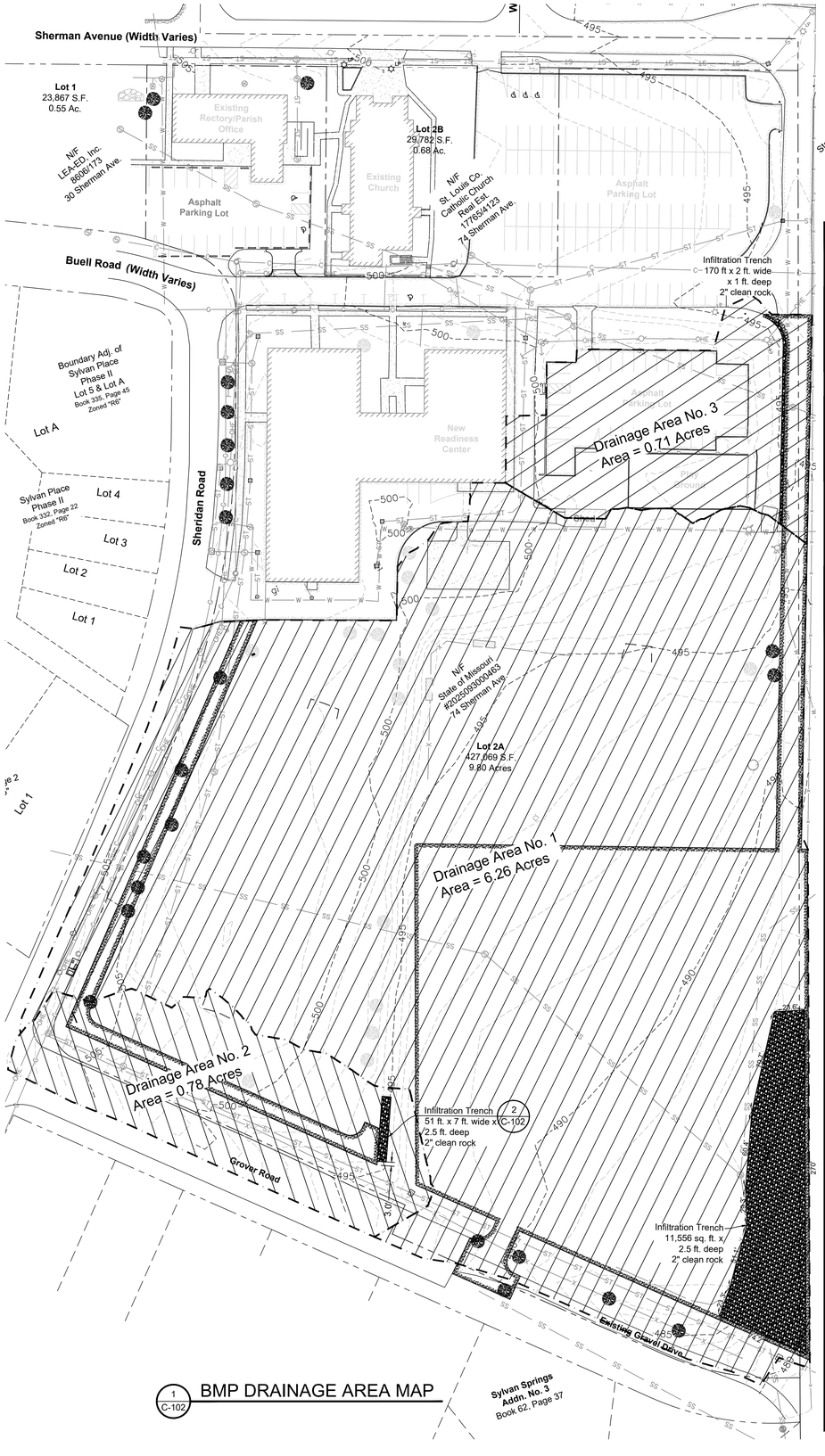
SHEET TITLE:

EXISTING SITE & REMOVAL PLAN

SHEET NUMBER:

C-101

SHEET: 2 OF 15
DATE: 07/01/2026



1 C-102 BMP DRAINAGE AREA MAP

N

Grid North / East Zone
Missouri Coordinate System of 1983

0' 50' 100'

Scale 1" = 50'

Stormwater Calculations - Differential Flow
by: Mitch Strother, PE
6/20/2026

DIFFERENTIAL FLOW CALCULATIONS

	POST CONSTRUCTION						
NAME	AREA (SQ. FT.)	AREA (ACRES)	POST CONSTRUCTION AREA OF IMPERVIOUS (ACRES)	POST CONSTRUTION IMPERVIOUS FLOW 3.54XACRES (CFS)	POST CONSTRUCTION AREA OF PERVIOUS (ACRES)	POST CONSTRUCTION PERVIOUS FLOW 1.70XACRES (CFS)	POST CONSTRUCTION COMBINED FLOW (CFS)
DRAINAGE NO. 1	272,663	6.26	2.42	8.56	3.84	6.53	15.09
DRAINAGE NO. 2	34,121	0.78	0.08	0.29	0.70	1.19	1.48
DRAINAGE NO. 3	30,839	0.71	0.39	1.38	0.32	0.54	1.92
TOTALS:	337,623	7.75	2.89	10.23	4.86	8.26	18.50

	PRE-CONSTRUCTION							
NAME	AREA (SQ. FT.)	AREA (ACRES)	PRE-CONSTRUCTION AREA OF IMPERVIOUS (ACRES)	PRE-CONSTRUCTION IMPERVIOUS FLOW 3.54XACRES (CFS)	PRE-CONSTRUCTION AREA OF PERVIOUS (ACRES)	PRE-CONSTRUCTION PERVIOUS FLOW 1.70XACRES (CFS)	PRE-CONSTRUCTION COMBINED FLOW (CFS)	DIFFERENTIAL FLOW (CFS)
DRAINAGE NO. 1	24,993	0.57	0.13	0.44	6.13	10.43	10.87	4.22
DRAINAGE NO. 2	19,442	0.45	0.00	0.00	0.78	1.33	1.33	0.15
DRAINAGE NO. 3	24,700	0.57	0.36	1.26	0.35	0.60	1.86	0.06
TOTALS:	69,135	1.59	0.48	1.70	7.27	12.36	14.06	4.43

TOTAL DIFFERENTIAL FLOW = 4.43 C.F.S. = INCREASE IN FLOW

TOTAL POST CONSTRUCTION FLOW = 18.50 CFS
TOTAL PRE-CONSTRUCTION FLOW = 14.06 CFS
TOTAL PROJECT FLOW DIFFENTIAL = 4.43 CFS

ST. BERNADETTE INFILTRATION TRENCH CALCULATIONS
40% Void Ratio Rock Catchment/Trench Calculations
Calculated By: Mitch Strother, P.E.
6/20/2026

Calculate the amount of water storage needed for the proposed additoinal impervious surface or other changes using the APWA MARC manual section 6.2 shortcut method

(DRAINAGE NO. 1) AREA OF IMPERVIOUS MVC DRAINING TO SOUTHEAST CORNER OF MVC

IMPERVIOUS AREA = 113,519 Sq. Ft. Credit Area

WQv = P x Rv = Water Quality Volume
P = 1.37 inches
Rv = 0.05 + 0.009 x I
I = 90 Percent Imperviousness
Rv = 0.86
WQv= 1.1782 inches
WQv= 0.0982 feet

Percent Voids in Rock Infiltratrion Trench = 40%

Catch Volume w/40% Voids = Addition Area X WQV/Percent Voids = 27,864.18 Cubic Feet
Proposed Area of 40% Void Rock = 11,556.00 Square Feet
Depth of 40% Voids Rock Required = 2.41 Feet
Use Rock Catch Infiltration Trench in Southeast Corner of MVC = 2.50 ft. deep x 11,556 square Feet = 28,890 Cubic Feet

(DRAINAGE NO. 2) AREA OF IMPERVIOUS AGGREGATE DRIVE ALONG WEST & SOUTH SIDE

IMPERVIOUS AREA = 3,610 Sq. Ft. Credit Area

WQv = P x Rv = Water Quality Volume
P = 1.37 inches
Rv = 0.05 + 0.009 x I
I = 90 Percent Imperviousness
Rv = 0.86
WQv= 1.1782 inches
WQv= 0.0982 feet

Percent Voids in Rock Infiltratrion Trench = 40%

Catch Volume w/40% Voids = Addition Area X WQV/Percent Voids = 886.10 Cubic Feet
Proposed Area of 40% Void Rock = 357.00 Square Feet - 51' long x 7' wide
Depth of 40% Voids Rock Required = 2.48 Feet Deep
Rock Infiltration Trench = 2.50 ft. deep x 51' long x 7' wide = 892.5 Cubic Feet

(DRAINAGE NO. 3) AREA OF IMPERVIOUS INCREASED WIDTH OF DRIVE EAST SIDE

IMPERVIOUS AREA = 1,444 Sq. Ft. Credit Area

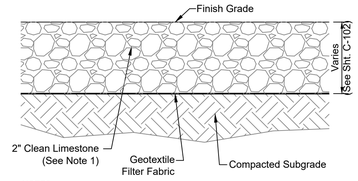
WQv = P x Rv = Water Quality Volume
P = 1.37 inches
Rv = 0.05 + 0.009 x I
I = 90 Percent Imperviousness
Rv = 0.86
WQv= 1.1782 inches
WQv= 0.0982 feet

Percent Voids in Rock Infiltratrion Trench = 40%

Catch Volume w/40% Voids = Addition Area X WQV/Percent Voids = 354.44 Cubic Feet
Proposed Area of 40% Void Ratio 2" Clean Rock = 340 Square Feet - 170' long x 2' wide
Depth of 40% Voids Rock Required = 1.04 Feet Deep
Rock Infiltration Trench = 1 ft. deep x 170' long x 2' wide = 340 Cubic Feet

GENERAL NOTES:

1. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.
2. TO PREVENT CONSTRUCTION SEDIMENT FROM CLOGGING INFILTRATION TRENCH, AT NO TIME MAY CONSTRUCTION SEDIMENT ENTER THESE FACILITIES. ADDITIONALLY, THESE FACILITIES SHALL NOT BE CONSTRUCTED UNTIL THE SURROUNDING AREA THAT DRAINS TO THEM IS FULLY STABLE/ESTABLISHED.
3. MSD SHOP DRAWING SUBMITTAL REQUIRED FOR BMP (INFILTRATION TRENCH) AND ITS COMPONENTS PRIOR TO CONSTRUCTION. MSD CONTACT: PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.
4. ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)



NOTES:

1. CONTRACTOR SHALL EXCAVATE TO A DEPTH DEPICTED ON SHEET C-102. PLACE 2" CLEAN LIMESTONE ON GEOTEXTILE FILTER FABRIC. GEOTEXTILE SHALL BE LINQ 180EX 8oz. NON-WOVEN OR APPROVED EQUAL.
2. REMOVE BRUSH AND ROOTS BEFORE INSTALLING GEOTEXTILE.

2 C-102 INFILTRATION TRENCH
SCALE: 1" = 1'

LEGEND

MAJOR CONTOUR	930
MINOR CONTOUR	
EXISTING CHAIN LINK FENCE	X X
PROPERTY LINE	
OVERHEAD ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC LINE	UGE UGE
SANITARY SEWER LINE	SS SS
WATER LINE	W W W
STORM SEWER LINE	ST ST ST
GAS LINE	G G
COMMUNICATION LINE	C C
STORM INLET	
SANITARY SEWER MANHOLE	
COMMUNICATION MANHOLE	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
LIGHT POLE	
UTILITY POLE & GUY WIRE	
CONTROL MARK	
TREE (TO REMAIN)	
TREE (TO BE REMOVED)	
TO BE REMOVED	TBR

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

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NUMBER E-024556
REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:35:01 -05'00'
MITCHELL L. STROTHER
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ISSUE DATE: 07/01/2026

CAD DWG FILE: T250401
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

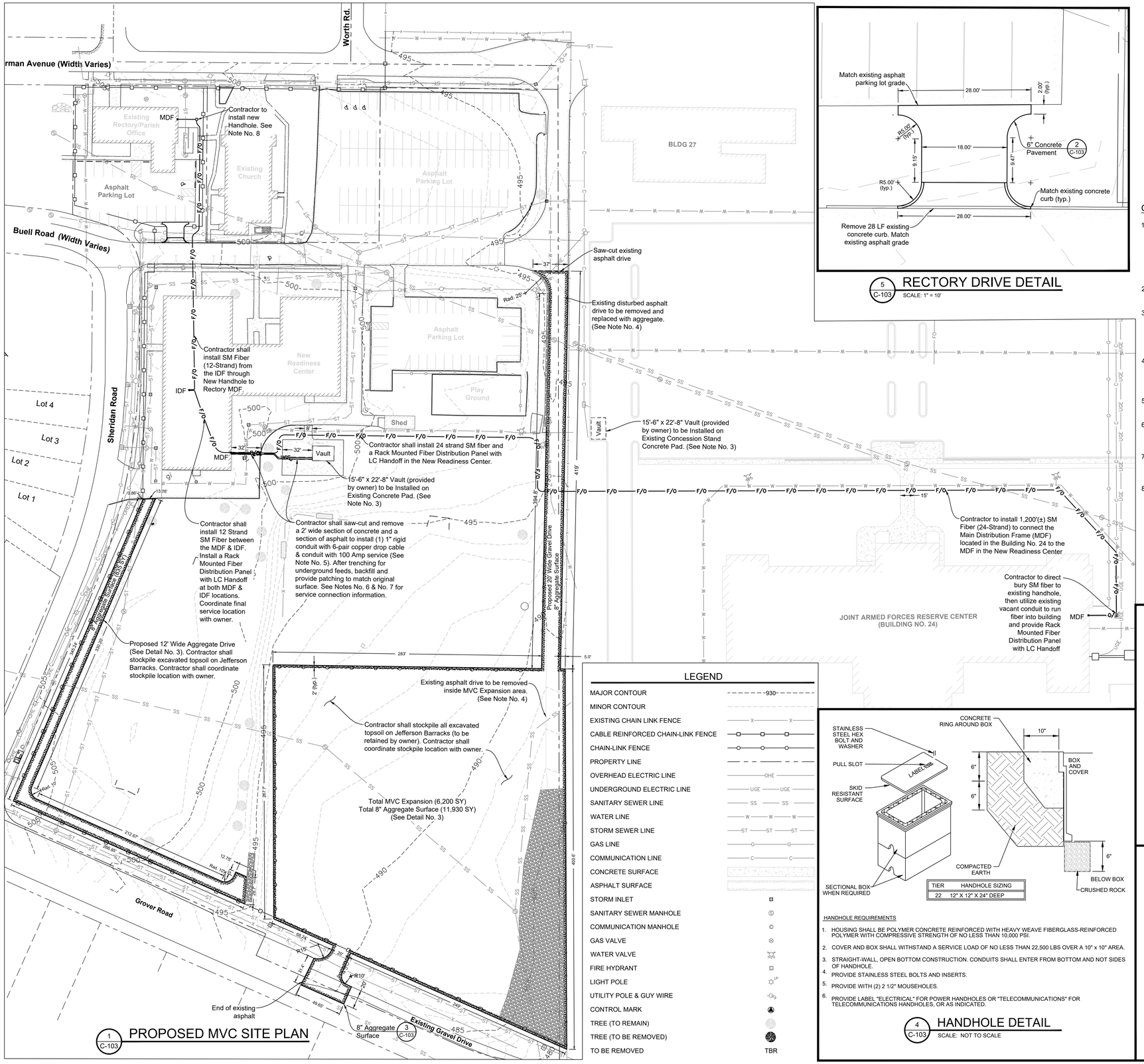
SHEET TITLE:

BMP DRAINAGE AREA MAP

SHEET NUMBER:

C-102

SHEET: 3 OF 15
DATE: 07/01/2026



1 C-103 **PROPOSED MVC SITE PLAN**

5 C-103 **RECTORY DRIVE DETAIL**
SCALE: 1" = 10'

LEGEND

MAJOR CONTOUR	930
MINOR CONTOUR	
EXISTING CHAIN LINK FENCE	X X
CABLE REINFORCED CHAIN-LINK FENCE	
CHAIN-LINK FENCE	
PROPERTY LINE	
OVERHEAD ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC LINE	UGE UGE
SANITARY SEWER LINE	SS SS
WATER LINE	W W W
STORM SEWER LINE	ST ST ST
GAS LINE	G G
COMMUNICATION LINE	C C
CONCRETE SURFACE	
ASPHALT SURFACE	
STORM INLET	
SANITARY SEWER MANHOLE	
COMMUNICATION MANHOLE	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
LIGHT POLE	LP
UTILITY POLE & GUY WIRE	
CONTROL MARK	
TREE (TO REMAIN)	
TREE (TO BE REMOVED)	
TO BE REMOVED	TBR

TIER	HANDHOLE SIZING
22	12" X 12" X 24" DEEP

HANDHOLE REQUIREMENTS

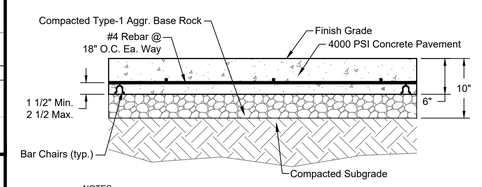
1. HOUSING SHALL BE POLYMER CONCRETE REINFORCED WITH HEAVY WEAVE FIBERGLASS-REINFORCED POLYMER WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 22,500 LBS OVER A 10" x 10" AREA.
3. STRAIGHT-WALL, OPEN BOTTOM CONSTRUCTION. CONDUITS SHALL ENTER FROM BOTTOM AND NOT SIDES OF HANDHOLE.
4. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
5. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
6. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELECOMMUNICATIONS" FOR TELECOMMUNICATIONS HANDHOLES, OR AS INDICATED.

4 C-103 **HANDHOLE DETAIL**
SCALE: NOT TO SCALE

Grid North / East Zone
Missouri Coordinate System of 1983
0' 50' 100'
Scale 1" = 50'

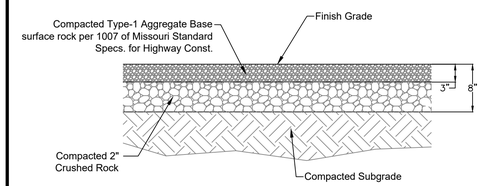
GENERAL NOTES:

1. EXISTING UTILITIES DEPICTED ON THESE PLANS ARE BASED ON UTILITIES VISIBLE DURING THE SITE SURVEY, AVAILABLE SURVEYS AND RECORDS; THEREFORE, LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES, THE EXISTENCE OF WHICH, AT PRESENT, IS NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, UTILITY LOCATES WILL BE REQUIRED PRIOR TO CONSTRUCTION. CONTACT THE MISSOURI ONE CALL SYSTEM AT 1-800-DIG-RITE (1-800-344-7483) PRIOR TO EXCAVATION OR DEMOLITION.
2. CONTRACTOR SHALL COORDINATE WITH OWNER AND PROVIDE REASONABLE ACCESS TO PARKING AND BUILDING THROUGHOUT THE PROJECT DURATION.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CONCESSION STAND. CONTRACTOR SHALL INFILL CONCRETE BLOCKS ON EXISTING PAD, RELOCATE EXISTING VAULT (APPROX. 41,000 LBS.) FROM JEFFERSON BARRACK'S SITE AND INSTALL VAULT ON CONCESSION STAND PAD. CONTRACTOR SHALL PROVIDE ELECTRICAL AND COMMUNICATION SERVICE TO THE VAULT AS SHOWN ON THIS SHEET.
4. CONTRACTOR SHALL EXCAVATE 8" OF EXISTING ASPHALT/CONCRETE DRIVE AND REPLACE WITH AGGREGATE. SEE DETAIL NO. 3 ON THIS SHEET. CONTRACTOR SHALL STOCKPILE ALL ASPHALT MILLINGS ON JEFFERSON BARRACKS (MILLINGS SHALL BE RETAINED BY THE OWNER). COORDINATE STOCKPILE LOCATION WITH OWNER.
5. CONTRACTOR SHALL SIZE AND INSTALL ALL WIRING, CONDUIT, ETC. PER LATEST EDITION OF NEC GUIDELINES.
6. ELECTRIC SERVICE FOR VAULT WILL CONNECT TO THE EXISTING WEATHERPROOF JUNCTION BOX ON EXTERIOR OF VAULT, CONNECTION INSIDE NEW READINESS CENTER WILL BE BY OTHERS; COORDINATE FINAL LOCATION WITH OWNER.
7. TELECOMMUNICATION SERVICE WILL CONNECT TO EXISTING WEATHERPROOF JUNCTION BOX ON THE EXTERIOR OF VAULT, CONNECTION TO MDF INSIDE THE NEW READINESS CENTER WILL BE BY OTHERS; COORDINATE FINAL LOCATION WITH OWNER.
8. CONTRACTOR SHALL TERMINATE SM FIBER IN RECTORY WITH A RACK MOUNTED FIBER DISTRIBUTION PANEL WITH LC HANDOFF. COORDINATE FINAL LOCATION IN RECTORY WITH OWNER. SEE HANDHOLE DETAIL (NO. 4) ON THIS SHEET.



NOTES:
1. ¼"W X 2"D SAWED JOINTS AT 12' CENTERS (MAXIMUM) REQUIRED FOR ALL CONCRETE PAVEMENT.
2. REINFORCING STEEL SHALL BE SUPPORTED WITH BAR CHAIRS W/ CONTINUOUS RUNNERS SPACED AT 4 FEET C/C MAXIMUM.
3. CURING MATERIALS SHALL BE USED FOR ALL CONCRETE FLATWORK IN ACCORDANCE WITH SECTION 321313 PART 2.5 OF THE SPECIFICATIONS.

2 C-103 **TYP. CONCRETE PAVEMENT**
SCALE: 1" = 1'



3 C-103 **AGGREGATE SURFACE DETAIL**
SCALE: 1" = 1'

MSD Project No.: 26MSD-00227
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Mitch Strother
Digitally signed by Mitch Strother
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CAD DWG FILE: T250401
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

SHEET TITLE:

MVC & VAULT SITE PLAN

SHEET NUMBER:

C-103

SHEET: 4 OF 15
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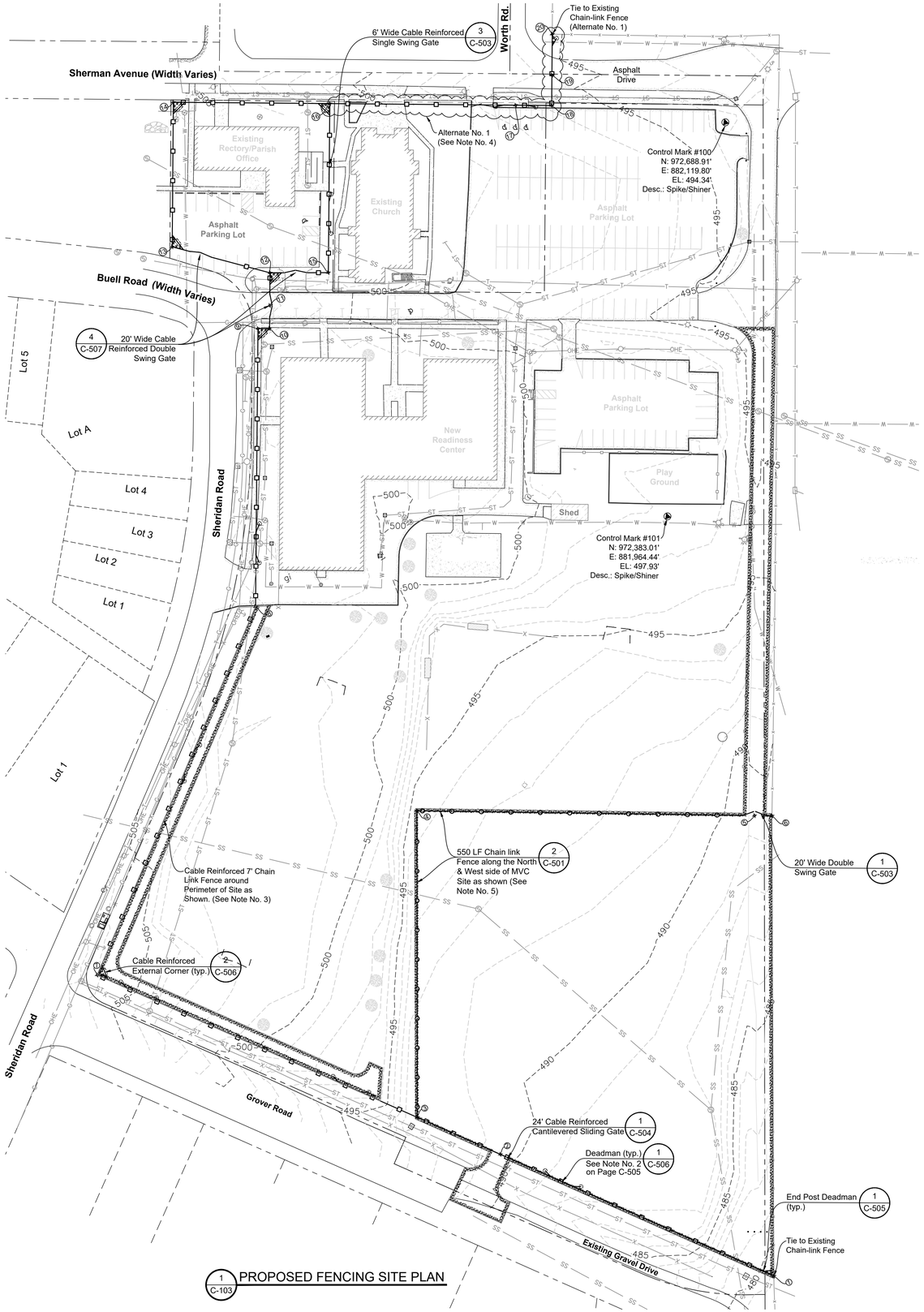


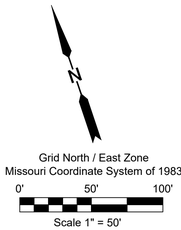
1 C-103 PROPOSED FENCING SITE PLAN

FENCE POINTS			
Point	Northing	Easting	Desc.
01	971733.52'	881843.07'	ENDFCE
02	971907.87'	881653.10'	CLENT
03	971960.81'	881595.41'	FCEINT
04	972211.32'	881679.09'	FCECOR
05	972114.84'	881953.50'	CLENT
06	972109.84'	881967.71'	ENDFCE
07	972164.86'	881373.08'	FCECOR
08	972422.11'	881603.31'	FCECOR
09	972648.63'	881681.57'	FCECOR
10	972645.49'	881691.05'	FCECOR
11	972664.24'	881697.50'	CLENT
12	972690.86'	881706.64'	FCECOR
13	972738.95'	881633.97'	FCECOR
14	972856.67'	881674.50'	FCECOR
15	972675.02'	881754.36'	FCECOR
16	972812.67'	881801.90'	FCECOR
17	972760.41'	881953.23'	DEADMAN
18	972750.29'	881982.52'	FCECOR
19	972775.10'	881991.10'	FCE
20	972808.33'	882002.56'	ENDFCE

CLENT = Centerline Entrance
DEADMAN = Cable Reinforced Deadman
ENDFCE = End of Fence
FCE = CL Fence
FCECOR = Fence Corner
FCEINT = Fence Intersection

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING CHAIN LINK FENCE
- CABLE REINFORCED CHAIN-LINK FENCE
- CHAIN-LINK FENCE
- PROPERTY LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- SANITARY SEWER LINE
- WATER LINE
- STORM SEWER LINE
- GAS LINE
- COMMUNICATION LINE
- CONCRETE SURFACE
- ASPHALT SURFACE
- STORM INLET
- SANITARY SEWER MANHOLE
- COMMUNICATION MANHOLE
- GAS VALVE
- WATER VALVE
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE & GUY WIRE
- CONTROL MARK
- TREE (TO REMAIN)



GENERAL NOTES:

1. EXISTING UTILITIES DEPICTED ON THESE PLANS ARE BASED ON UTILITIES VISIBLE DURING THE SITE SURVEY, AVAILABLE SURVEYS AND RECORDS; THEREFORE, LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES, THE EXISTENCE OF WHICH, AT PRESENT, IS NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, UTILITY LOCATES WILL BE REQUIRED PRIOR TO CONSTRUCTION. CONTACT THE MISSOURI ONE CALL SYSTEM AT 1-800-DIG-RITE (1-800-344-7483) PRIOR TO EXCAVATION OR DEMOLITION.
2. HORIZONTAL & VERTICAL CONTROL WERE DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S REAL-TIME NETWORK. THE HORIZONTAL CONTROL IS UTILIZING THE MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE, CONVERTED TO U.S. SURVEY FEET AND THE VERTICAL CONTROL IS BASED FROM NAVD88 DATUM.
3. CONTRACTOR SHALL INSTALL APPROXIMATELY 1760 LF OF CABLE REINFORCED 7' CHAIN LINK FENCE WITH DOUBLE EXTENSION ARMS IN ALL AREAS NOTED AS "PROPOSED CABLE REINFORCED CHAIN-LINK FENCE", AND GATES AS SHOWN.
4. ALTERNATE NO. 1 CONSISTS OF 254 LF OF CABLE REINFORCED CHAIN-LINK FENCE, DEADMAN, AND END POST DEADMAN.
5. CONTRACTOR SHALL INSTALL 7' CHAIN-LINK FENCE WITH WITH SINGLE EXTENSION ARM ALONG THE NORTH AND WEST SIDES OF THE PROPOSED MVC SITE AS SHOWN.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
MITCHELL L. STROTHER
NUMBER E-024556
REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:36:15 -05'00'
MITCHELL L. STRETCHER
PROFESSIONAL ENGINEER - E-024556

ARMY NATIONAL GUARD

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD
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6819A N. BOUNDARY ROAD
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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT # T2504-01
SITE # 6303
ASSET # 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DG FILE: T250401
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

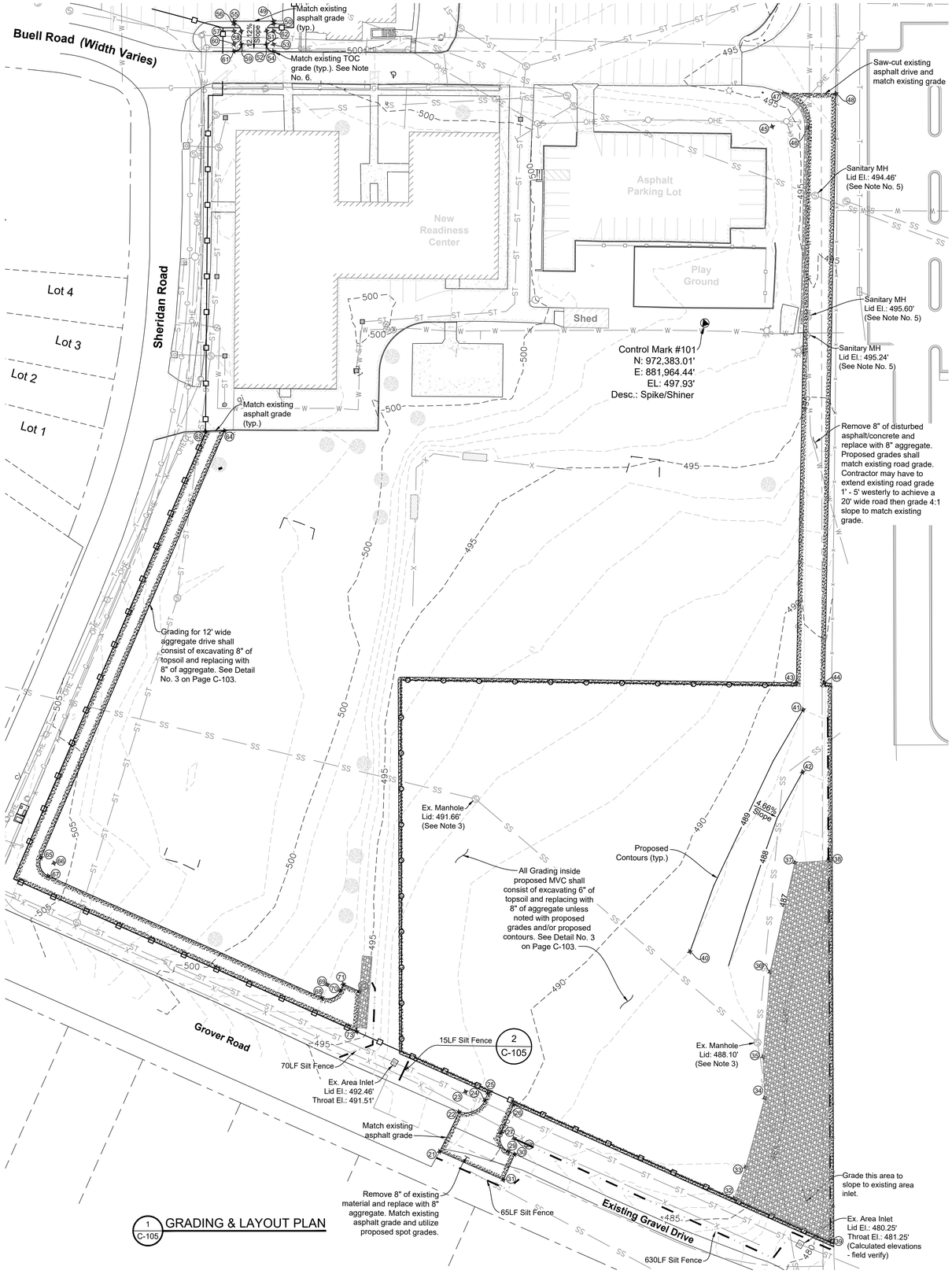
SHEET TITLE:

FENCING SITE PLAN

SHEET NUMBER:

C-104

SHEET: 5 OF 15
DATE: 07/01/2026



1 C-105 GRADING & LAYOUT PLAN

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING CHAIN LINK FENCE
- CABLE REINFORCED ELECTRIC CHAIN-LINK FENCE
- CHAIN-LINK FENCE
- PROPERTY LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- SANITARY SEWER LINE
- WATER LINE
- STORM SEWER LINE
- GAS LINE
- COMMUNICATION LINE
- CONCRETE SURFACE
- ASPHALT SURFACE
- STORM INLET
- SANITARY SEWER MANHOLE
- COMMUNICATION MANHOLE
- GAS VALVE
- WATER VALVE
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE & GUY WIRE
- CONTROL MARK
- TREE (TO REMAIN)

GRADE/LAYOUT POINTS

Point	Northing	Easting	Elev.	Desc.
21	971884.95'	881598.41'	491.02'	EOA
22	971907.28'	881620.52'	491.35'	EOA
23	971919.35'	881629.43'	0.00'	15' RAD
24	971909.23'	881640.49'	490.90'	EOG - PT
25	971913.30'	881644.22'	490.95'	EOG
26	971899.78'	881658.96'	490.25'	EOG
27	971883.64'	881644.18'	490.20'	EOG - PT
28	971876.90'	881651.57'	0.00'	10' RAD
29	971869.52'	881644.80'	489.90'	EOG - PC
30	971866.13'	881648.49'	489.80'	EOG
31	971851.38'	881634.99'	489.70'	EOG
32	971786.98'	881786.30'	0.00'	EOR
33	971805.10'	881801.01'	0.00'	EOR
34	971847.46'	881829.51'	0.00'	EOR
35	971875.57'	881837.71'	0.00'	EOR
36	971931.02'	881861.61'	0.00'	EOR
37	971999.12'	881903.06'	0.00'	EOR
38	971993.09'	881925.89'	0.00'	EOR
39	971736.78'	881841.00'	0.00'	EOR
40	971962.92'	881812.15'	489.00'	PG
41	972100.33'	881943.25'	489.00'	PG
42	972058.53'	881928.87'	488.00'	PG
43	972120.04'	881944.74'	489.55'	EOG
44	972113.41'	881963.61'	489.45'	EOG
45	972500.14'	882054.30'	0.00'	25' RAD
46	972491.71'	882077.83'	494.15'	EOG - PT
47	972520.01'	882069.45'	0.00'	EOA - PC
48	972507.93'	882104.59'	0.00'	EOA
49	972683.92'	881742.31'	503.96'*	EOA -EOC
50	972682.05'	881741.61'	503.76'	COC
51	972678.91'	881735.32'	503.10'	EOC-PT
52	972669.95'	881732.26'	501.87'	EOC-PC
53	972668.33'	881736.99'	0.00'	5' RAD
54	972663.60'	881735.38'	501.15'*	TOC
55	972892.66'	881715.71'	504.16'*	EOA-EOC
56	972690.77'	881715.06'	503.96'	COC
57	972686.04'	881713.45'	0.00'	5' RAD
58	972684.42'	881718.18'	503.34'	EOC-PT
59	972675.76'	881715.23'	502.31'	EOC-PC
60	972677.37'	881710.49'	0.00'	5' RAD
61	972672.64'	881708.88'	501.99'*	TOC
62	972677.30'	881740.05'	0.00'	5' RAD
63	972422.92'	881603.59'	501.87'*	EOA-EOG
64	972419.10'	881616.72'	501.64'*	EOA-EOG
65	972173.04'	881396.51'	505.78'*	EOG-PC
66	972166.37'	881403.96'	0.00'	10' RAD
67	972159.01'	881397.20'	505.51'*	EOG-PT
68	972015.21'	881553.89'	497.02'*	EOG-PC
69	972022.58'	881560.65'	0.00'	10' RAD
70	972015.82'	881568.02'	496.70'*	EOG-PT
71	972019.50'	8815?1.40'	496.68'*	COG
72	972010.88'	881580.79'	496.13'*	COG
73	971984.42'	881569.68'	495.80'*	COG

"*" = Calculated grade - Contractor to match existing grade in these areas.

COC = Corner of Concrete
COG = Corner of Gravel
EOA = Edge of Existing Asphalt
EOC = Edge of Concrete
EOG = Edge of Gravel
EOR = Edge of Riprap
PC = Point of Curvature
PG = Proposed Grade
PT = Point of Tangency
RAD = Radius Point
TOC = Top of Curb

GENERAL NOTES:

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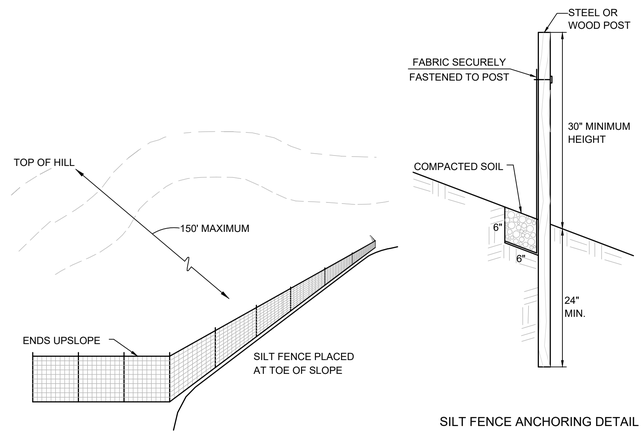
3. ADJUST TO GRADE ANY STRUCTURES WITHIN THE PROPOSED GRADING/RESURFACING AREAS.
4. PROPOSED GRADES WERE DESIGNED TO BE 0.2' HIGHER THAN THE EXISTING ELEVATIONS INSIDE THE PROPOSED CHAIN LINK FENCING AROUND THE PROPOSED MVC (EXCEPT THE AREA WITH PROPOSED CONTOURS). THE 2' WIDE GRAVEL SURFACE OUTSIDE OF THE PROPOSED MVC FENCE ON THE NORTHERLY AND WESTERLY SIDES WILL BE USED TO SLOPE TO EXISTING GRADE.
5. ALL EXISTING UTILITIES LOCATED IN 20' WIDE GRAVEL DRIVE SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.
6. THE EXISTING TOP OF CURB ON THE NORTH SIDE OF KEARNEY STREET IS 0.16' HIGHER THAN THE EXISTING ASPHALT ON BOTH SIDES OF THE PROPOSED CONCRETE DRIVE. CONTRACTOR SHALL MATCH TOP OF CURB AND EXISTING ASPHALT GRADES IN THIS AREA.



SILT FENCE ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS:

1. FABRIC FENCES MAY BE CONSTRUCTED WITH SUPPORTING FENCES, SUCH AS SNOW FENCES OR WIRE MESH FENCES. THE SUPPORTING FENCES SHALL BE STRONG ENOUGH TO WITHSTAND THE LOAD FROM POND WATER AND TRAPPED SEDIMENT. THE SUPPORT POSTS SHALL BE SPACED AT 10 FEET OR LESS, AND SHALL BE PLACED OR DRIVEN AT LEAST 2 FEET INTO THE GROUND. POSTS SHALL BE 4-INCH DIAMETER WOOD POSTS OR STEEL POSTS.

   WHEN A FABRIC FENCE IS INSTALLED WITHOUT A SUPPORTING FENCE, THE POSTS SHALL BE SPACED AT 4 FEET OR LESS. POSTS SHALL BE SPACED OR DRIVEN AT LEAST 2 FEET INTO THE GROUND. POSTS SHALL BE 2-INCH SQUARE OR HEAVIER WOOD POSTS OR STANDARD STEEL POSTS.

2. A TRENCH FOR ANCHORING THE FABRIC SHALL BE DUG ALONG THE UPSLOPE SIDE OF THE POSTS. THE TRENCH SHALL BE AT LEAST 6 INCHES WIDE AND 6 INCHES DEEP. THE FABRIC SHALL BE LAID IN THE TRENCH, WHICH THEN SHALL BE BACKFILLED AND COMPACTED TO PREVENT WATER AND SEDIMENT FROM PASSING UNDERNEATH THE FABRIC FENCE.

3. THE FILTER FABRIC SHALL BE FURNISHED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE SILT FENCE TO AVOID SPLICES. WHEN SPLICES ARE NECESSARY, THE FABRIC SHALL BE SPLICED AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP, FOLDED OVER, AND SECURELY FASTENED.

4. THE SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF POLYPROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN UNIFORM IN TEXTURE AND APPEARANCE AND FREE FROM DEFECTS, FLAWS, OR TEARS THAT WOULD AFFECT ITS PHYSICAL PROPERTIES. WHEN INSTALLING FABRIC FOR SILT FENCES, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

2 C-105 SYNTHETIC FILTER FABRIC EROSION CONTROL DETAIL
SCALE: 1" = 1'

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI · MITCHELL L. STROTHER · NUMBER E-024556 · REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:37:06 -05'00'
MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

ARMY NATIONAL GUARD

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD
FACILITIES DIVISION
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JEFFERSON CITY, MO 65101
PHONE: 573-638-9500, EXT. 37015

MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT # T2504-01
SITE # 6303
ASSET # 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: T250401
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

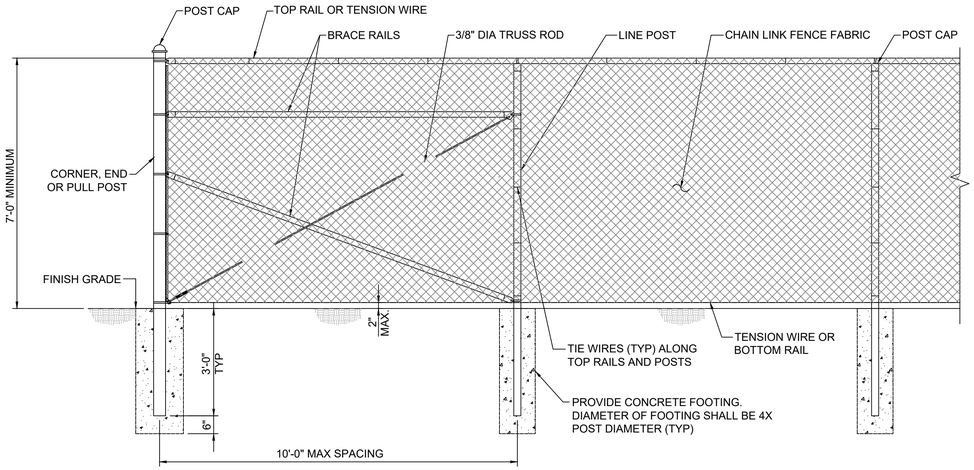
SHEET TITLE:

GRADING & LAYOUT PLAN

SHEET NUMBER:

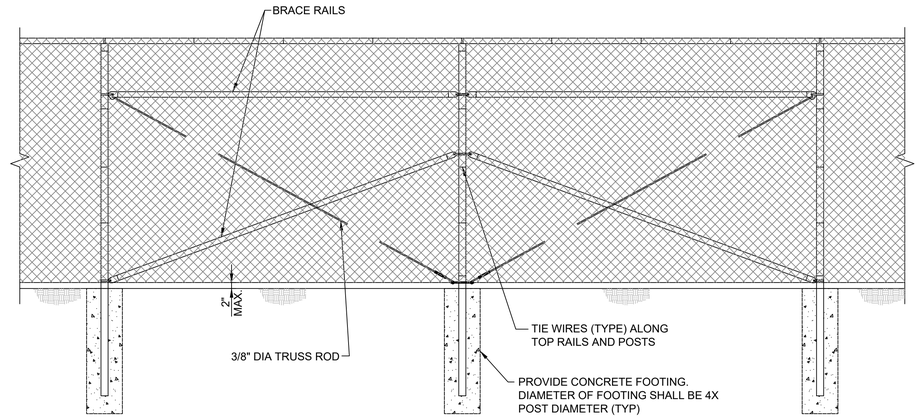
C-105

SHEET: 6 OF 15
DATE: 07/01/2026



1 C-501 TYPICAL FENCE AND CORNER PANEL ELEVATION

SCALE: 1" = 1'-0"



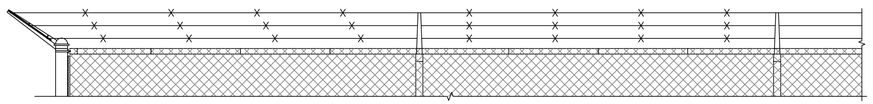
2 C-501 TYPICAL FENCE AND BRACED PANEL ELEVATION

SCALE: 1" = 1'-0"

NOTES:

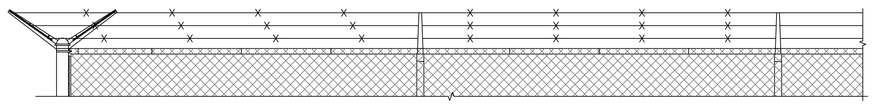
1. A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4") HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.

2. SOME LOCATIONS MAY REQUIRE 8' OF FABRIC.



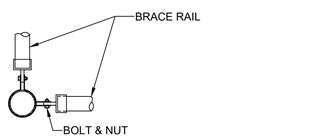
3 C-501 TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM

SCALE: 1" = 1'-0"

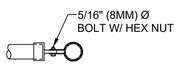


4 C-501 TYPICAL 6 BARBED WIRE AND DOUBLE EXTENSION ARM

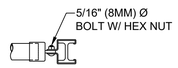
SCALE: 1" = 1'-0"



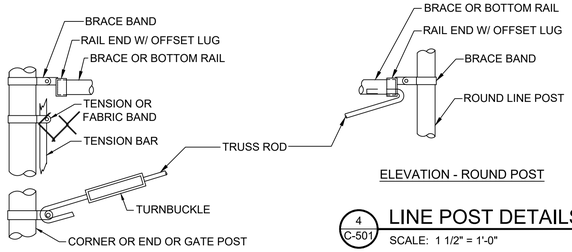
PLAN



PLAN - ROUND POST

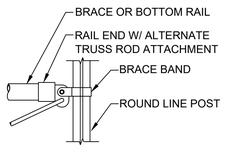


PLAN - " H" POST



ELEVATION

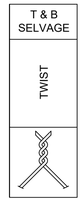
ELEVATION - ROUND POST



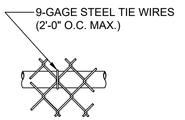
ELEVATION - "H" POST

4 C-501 LINE POST DETAILS

SCALE: 1 1/2" = 1'-0"

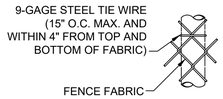


PLAN - ROUND POST



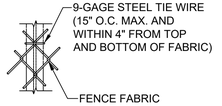
ELEVATION
TOP OR BOTTOM RAIL ATTACHMENT

PLAN - "H" POST

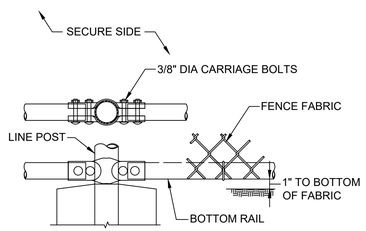


ELEVATION - ROUND POST

FITTINGS NOTES
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. ALL FITTINGS MATERIAL SHALL BE AS SPECIFIED.



ELEVATION - "H" POST



BOTTOM RAIL OPTION

5 C-501 CORNER OR END POSTS

SCALE: 1 1/2" = 1'-0"

GENERAL NOTE:
DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-700.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
MITCHELL L. STROTHER
NUMBER E-024556
REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:38:51 -05'00'
MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

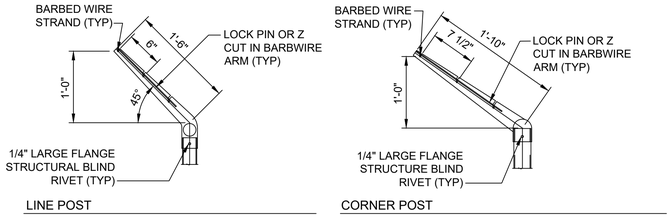
SHEET TITLE:

CHAIN LINK FENCE DETAILS

SHEET NUMBER:

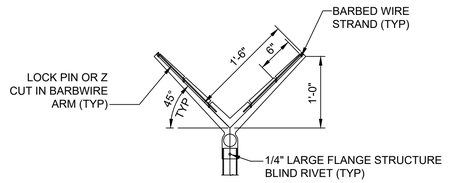
C-501

SHEET: 7 OF 15
DATE: 07/01/2026



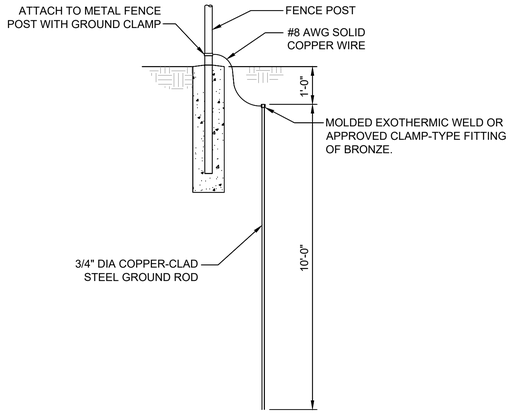
1 C-502 SINGLE EXTENSION ARM DETAIL

SCALE: 1" = 1'-0"



2 C-502 DOUBLE EXTENSION ARM DETAIL

SCALE: 1" = 1'-0"



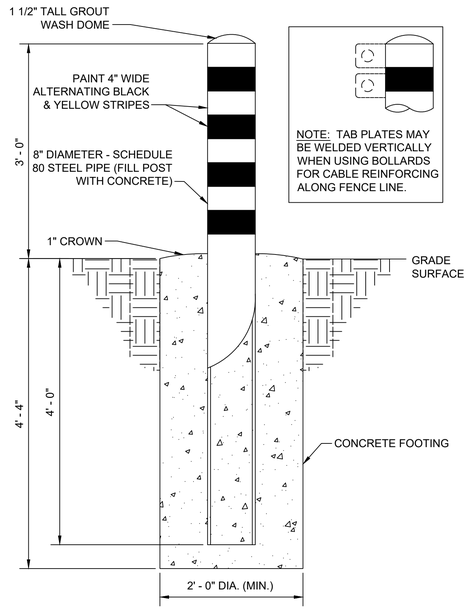
3 C-502 GROUNDING DETAIL

NO SCALE

CHAIN LINK FENCING NOTES

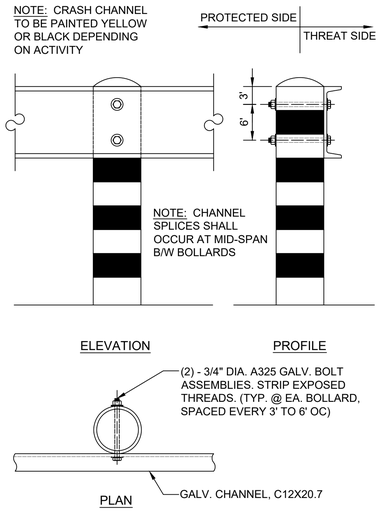
1. FABRIC: THE STANDARD FENCE FABRIC SHALL BE VINYL, ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAGE.
2. FABRIC TIES: ONLY 12-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
3. REINFORCEMENT: TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
4. FENCE HEIGHT: CHAIN LINK FABRIC SHALL BE 7' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 8'.
5. GROUND CLEARANCE: BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
6. TOP GUARDS: A TOP GUARD IS AN OVERHANG OF BARBED WIRE ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45° ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.
7. FENCE POSTS: SHALL BE ASTM F1043 OR F1083 ROUND PIPE OR SQUARE TUBE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURES' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" ON CENTER. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.
8. DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-701.

NOTE: STEEL PIPE FOR BOLLARDS SHALL CONFORM TO ASTM A53, TYPE E OR S, GALVANIZED.



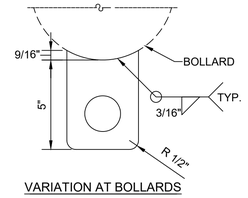
4 C-502 CONCRETE FILLED BOLLARD - FOOTING

SCALE: 1" = 1'-0"



6 C-502 CHANNEL FOR BOLLARDS

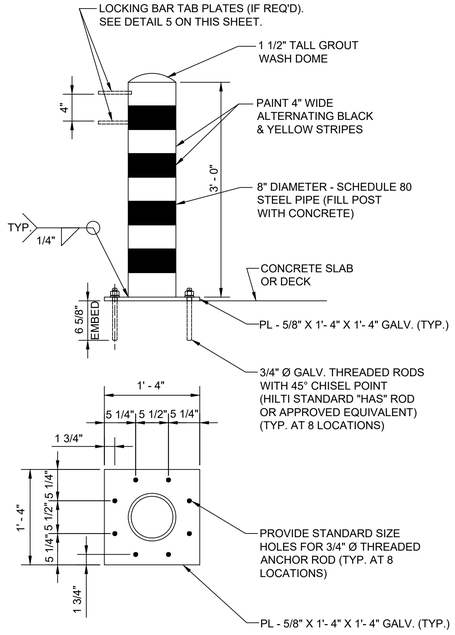
SCALE: 1" - 0"



5 C-502 TAB PLATE DETAIL

SCALE: 3" = 1'-0"

NOTE: CONTRACTOR SHALL HAVE PLATED BOLLARD CONNECTION ANALYZED AND STAMPED BY A REGISTERED ENGINEER FOR IT TO BE USED FOR ATFP PURPOSES.



7 C-502 CONC FILLED BOLLARD - PLATE

SCALE: 1" = 1'-0"

GENERAL NOTE:
DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-701 & UFC-705.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI · MITCHELL L. STROTHER · NUMBER E-024556 · REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:39:43 -05'00'
MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

ARMY NATIONAL GUARD

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

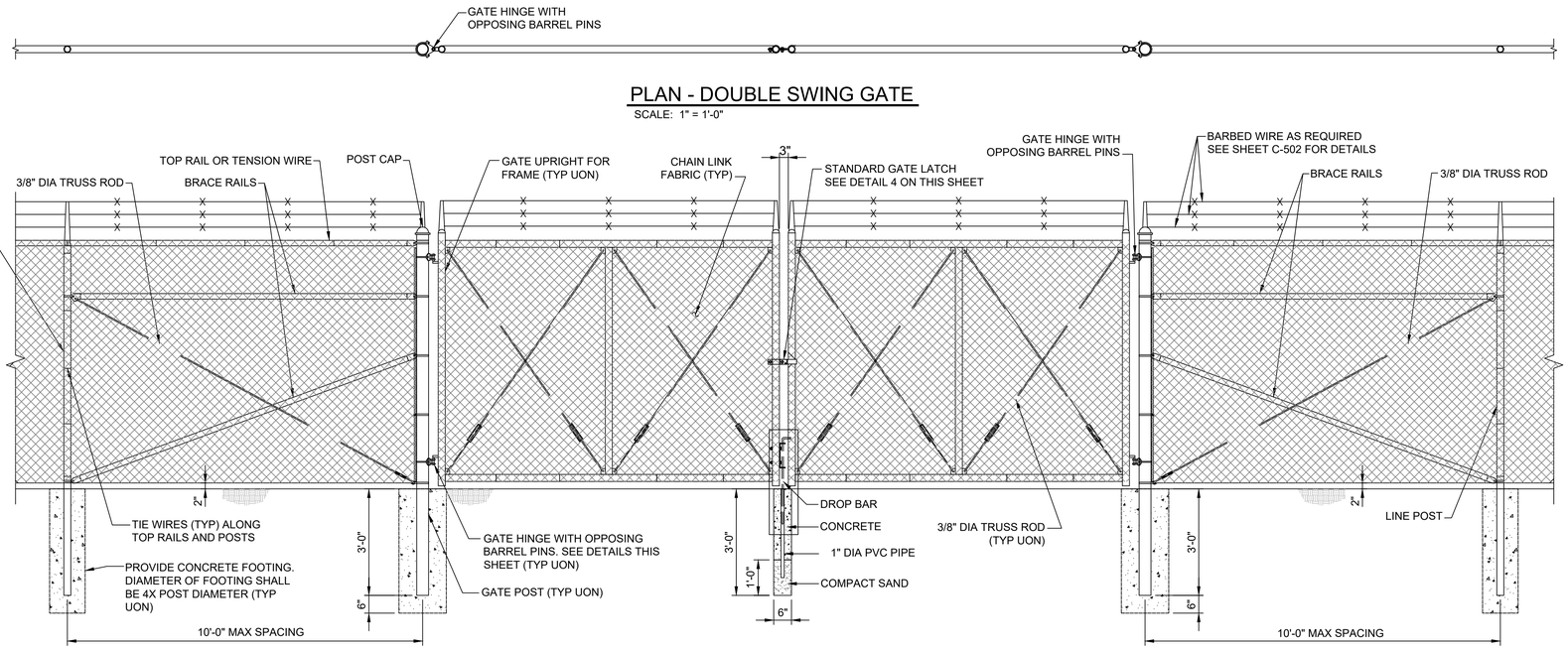
SHEET TITLE:

BARBED WIRE ARRANGEMENT DETAILS

SHEET NUMBER:

C-502

SHEET: 8 OF 15
DATE: 07/01/2026



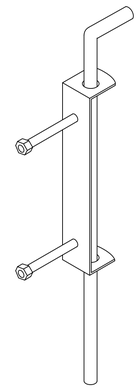
PLAN - DOUBLE SWING GATE

SCALE: 1" = 1'-0"

1 C-503 TYPICAL DOUBLE SWING GATE

SCALE: 1/2" = 1'-0"

NOTE: PROVIDE ONE DROP BAR FOR EACH LEAF (TYP). ASSOCIATED GALV SLEEVES TO BE INSTALLED FLUSH WITH GRADE AT FULLY OPEN AND CLOSED POSITIONS. CONTRACTOR SHALL PROVIDE 6" LAYER OF #10 STONE BELOW BOTTOM OF SLEEVE TO ALLOW FOR DRAINAGE.

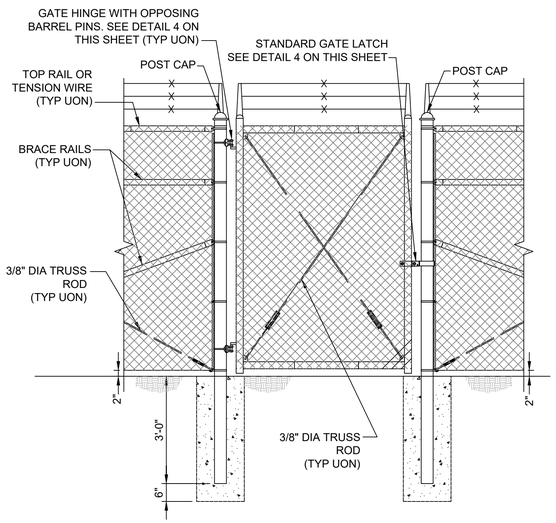


2 C-503 DROP BAR DETAIL

NOT TO SCALE

PLAN - SINGLE SWING GATE

SCALE: 1" = 1'-0"



3 C-503 TYPICAL SINGLE SWING GATE

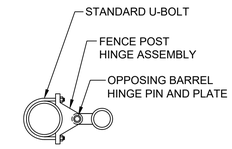
SCALE: 1/2" = 1'-0"

SINGLE OR DOUBLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
NOM HT INCLUDING BARBED WIRE	ACTUAL DIM	ACTUAL DIM
8'-0" (2438MM)	7'-10" (2388MM)	6'-8 1/2" (2045MM)

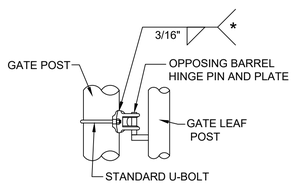
SINGLE LEAF GATES		
OPENING	GATE POST	HINGE SPACE (S)
FACE TO FACE	SQUARE & ROUND SIZES	POST TO UPRIGHT
3'-0" (914MM) THROUGH 6'-0" (1829MM)	2.5" (63.5MM)SQ x 3/16"th OR 2.875" (73MM) OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" (57MM)
6'-0" (1829MM) THROUGH 12'-0" (3657MM)	4" (102MM) SQ x 3/16"th OR 4" (102MM) OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" (57MM)
12'-0" (3657MM) THROUGH 19'-0" (5790MM)	6" (153MM) SQ x 3/16"THC OR 6.625" (168MM) OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" (57MM)
19'-0" (5790MM) THROUGH 23'-0" (7010MM)	8" (203MM) SQ x 1/4"th OR 8.625" (219MM) OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" (57MM)

GATE POSTS AND FOUNDATIONS: GATE [POSTS SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURE, BASED ON LEAF WEIGHT & DIMENSION, BUT NOT LESS THAN DIAMETER SHOWN ON THESE DRAWINGS. MINIMUM FOOTING DIAMETERS (TO BE FILLED W/ 4000 PSI CONC.): 40" Ø FOR 8" POST; 36" Ø FOR 6" POST; 24" Ø FOR 4" POST; OTHER SIZES TO BE DESIGNED BY MFR OR KTR. NO FOOTING WIDTH SHALL BE LESS THAN 4(X) THE POST WIDTH.

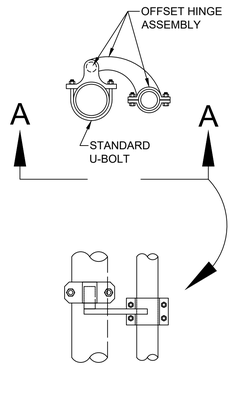
NOTE: IF GATE HINGES ARE NOT OPPOSING (AS SHOWN ABOVE) OR LEAF IS NOT LOCKED MECHANICALLY TO THE HINGES, WELD AN ANGLE, PLATE, OR BLOCK ABOVE HINGE TO RESTRICT LEAF FROM BEING REMOVED OR LIFTED OFF. RESTRICTION SHALL NOT HINDER OPERATION OF GATE.



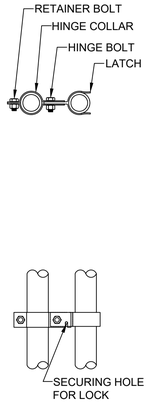
(*) NOTE: WELD HINGES TO POST IF INSTALLING CABLE REINFORCEMENT ON GATES. ENSURE CORRECT HEIGHT FOR FULL OPERATION PRIOR TO WELDING (TYP)



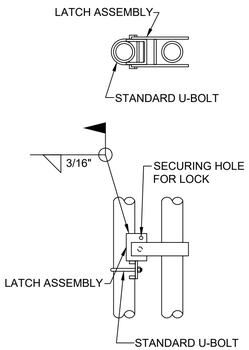
GATE HINGE DETAIL



OFFSET HINGE DETAIL



GATE LATCH DETAIL



FULCRUM LATCH DETAIL

4 C-503 HINGE AND LATCH DETAILS

SCALE: 1 1/2" = 1'-0"

GENERAL NOTE:
DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-702.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI — MITCHELL L. STROTHER — NUMBER E-024556 — REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:40:23 -05'00'
MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

ARMY NATIONAL GUARD

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD
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6819A N. BOUNDARY ROAD
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PHONE: 573-638-9500, EXT. 37015

MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

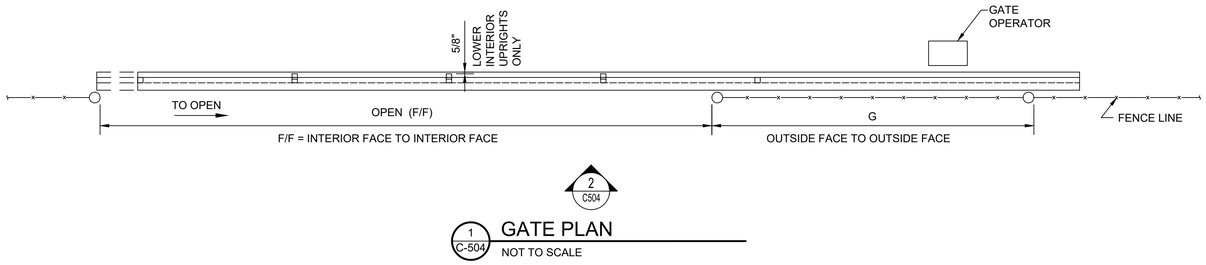
SHEET TITLE:

CHAIN LINK FENCE SWING GATE & DETAILS

SHEET NUMBER:

C-503

SHEET: 9 OF 15
DATE: 07/01/2026



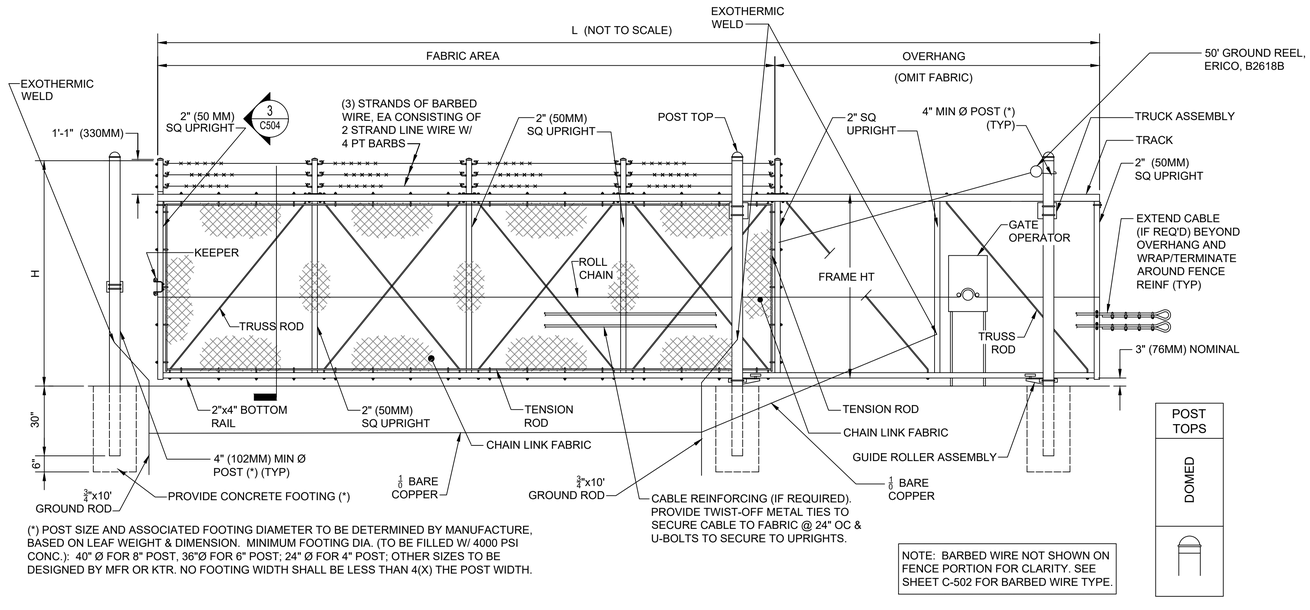
2 C504

1 C-504 GATE PLAN

NOT TO SCALE

SAMPLING OF SIZES:

OPENING (F/F)	NOMINAL HEIGHT (H)	LENGTH (L)	GATE POSTS (G)	BAYS / OVERHANG
37'-0"	8'-0"	53'-3"	16'-0"	5 (FABRIC) / 2 (W/O)
30'-0"	8'-0"	42'-3"	12'-0"	4 (FABRIC) / 2 (W/O)
24'-0"	8'-0"	36'-3"	12'-0"	3 (FABRIC) / 2 (W/O)

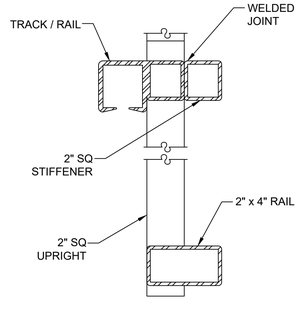


(*) POST SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURE, BASED ON LEAF WEIGHT & DIMENSION. MINIMUM FOOTING DIA. (TO BE FILLED W/ 4000 PSI CONC.): 40" Ø FOR 8" POST, 36"Ø FOR 6" POST; 24" Ø FOR 4" POST; OTHER SIZES TO BE DESIGNED BY MFR OR KTR. NO FOOTING WIDTH SHALL BE LESS THAN 4(X) THE POST WIDTH.

NOTE: BARBED WIRE NOT SHOWN ON FENCE PORTION FOR CLARITY. SEE SHEET C-502 FOR BARBED WIRE TYPE.

2 C-504 TYPICAL SINGLE CANTILEVERED SLIDING GATE ELEVATION

NOT TO SCALE



3 C-504 SECTION (TYP.)

NOT TO SCALE

GENERAL NOTE:

DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-703.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
MITCHELL L. STROTHER
NUMBER E-024556
REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:40:59 -05'00'

MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

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DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD
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6819A N. BOUNDARY ROAD
JEFFERSON CITY, MO 65101
PHONE: 573-638-9500, EXT. 37015

MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

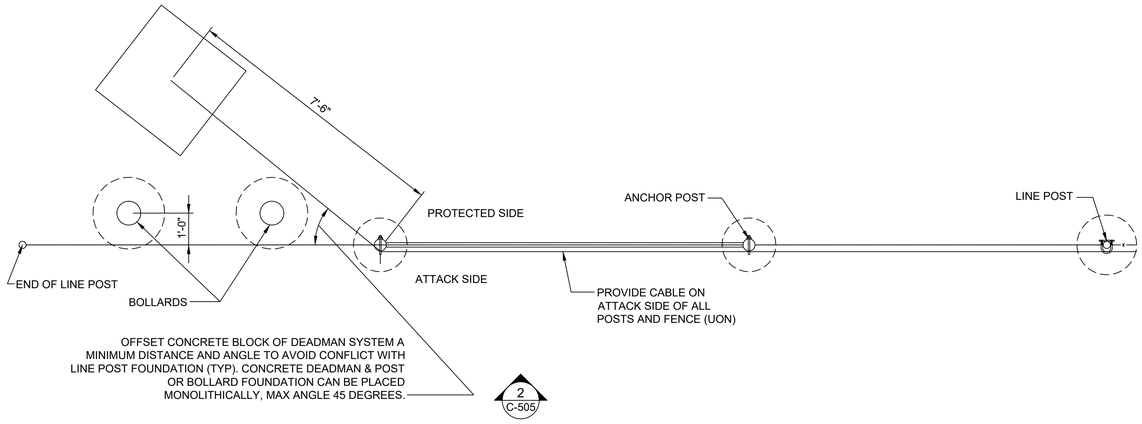
SHEET TITLE:

CHAIN LINK CANTILEVERED GATE DETAILS

SHEET NUMBER:

C-504

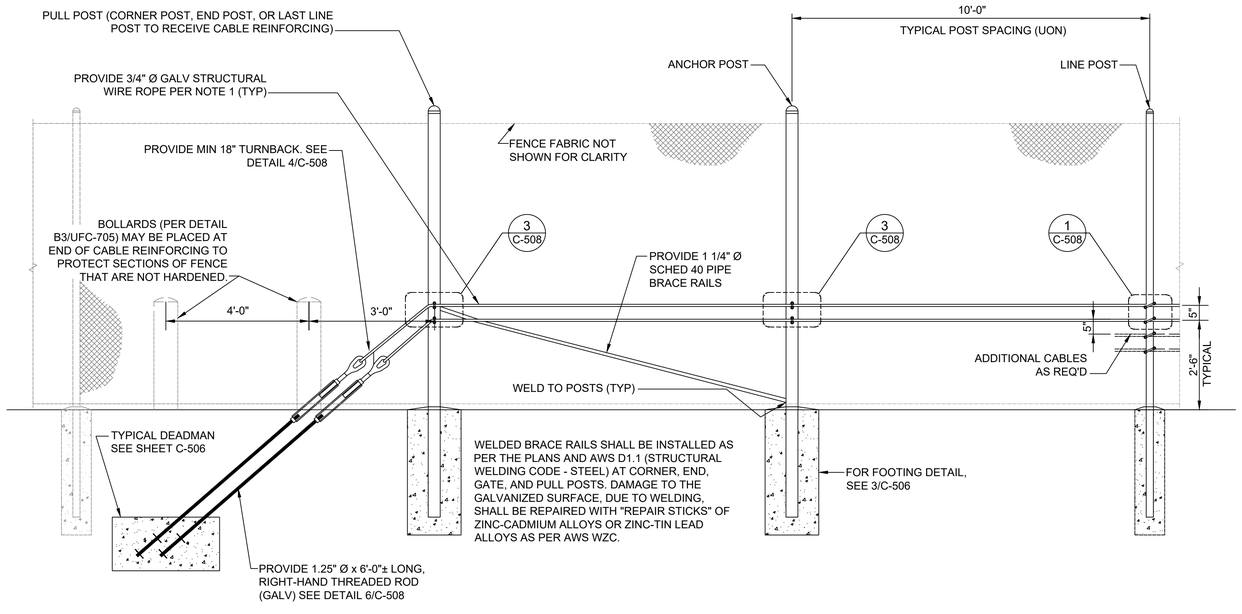
SHEET: 10 OF 15
DATE: 07/01/2026



1 C-505 END POST DEADMAN AND LINE POST LAYOUT (PLAN VIEW)

SCALE: 1/2" = 1'-0"

NOTE: FOR RETROFITTING OF EXIST CLF, CABLE CAN BE PLACED ON THE ATTACK SIDE OF THE FENCE FABRIC. FOR NEW CONSTRUCTION, CABLE SHALL BE INSTALLED ON ATTACK SIDE OF POST, BETWEEN POST AND FABRIC.



2 C-505 TYPICAL END POST DEADMAN AND LINE POST LAYOUT

SCALE: 1/2" = 1'-0"

MODIFICATIONS TO TYPICAL DESIGN:

NOTE FOR CONTRACTOR: IF LARGER DESIGN THREATS OR CUSTOMER REQUESTS INDICATE A NEED FOR GREATER SECURITY, MORE 3/4" Ø CABLES CAN BE UTILIZED OR THE CABLES CAN BE UPGRADED TO 1" Ø BOTH SCENARIOS REQUIRE THE DEADMAN (WHICH WILL NEED TO BE LARGER) TO BE DESIGNED BY A PROFESSIONAL ENGINEER TO SATISFY THE CRITERIA OUTLINED IN REINF NOTE 18 ON THIS SHEET. FOR BIDDING PURPOSES, ESTABLISH A UNIT COST FOR ADDITIONAL EXCAVATION AND NEW CONCRETE PER CUBIC FOOT.
If 1" Ø CABLE IS USED, SPECIFICATIONS SHALL MATCH REINF NOTE 1 ON THIS SHEET, EXCEPT THE CABLE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 70,000 POUNDS (35 TONS). OTHER COMPONENTS, SUCH AS EYEBOLTS, U-BOLTS, ROPE CLIPS, THIMBLES, AND OTHER ASSOCIATED HARDWARE SHALL BE SIZED ACCORDINGLY.

GENERAL NOTES:

DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-710.

REINFORCING NOTES:

1. REINFORCING CABLES SHALL BE U.S. DOMESTIC MINIMUM 3/4" Ø 6 x 19 CLASS WIRE ROPE, REGULAR LAY, 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). CABLES WITH A BLACK VINYL COATING, SHALL NO BE IMPREGNATED.
2. CABLES SHALL BE CONTINUOUS FROM DEADMAN TO DEADMAN. SHALL BE INSTALLED BETWEEN FENCE POST AND FENCE FABRIC AS PER PLANS. 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 (EXTERNAL CORNERS).
3. WIRE ROPE ENDS SHALL TERMINATE AROUND TURNBUCKLES, GATE POSTS OR EXTRA HEAVY-DUTY WIRE ROPE THIMBLES (AT GATES). THESE TERMINATIONS REQUIRE 18" MINIMUM OF ROPE FOR TURN BACK AND A MINIMUM OF (4) - CLIPS EACH (EQUAL SPACING).
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
5. DEADMEN SHALL BE INSTALLED ON THE SECURED SIDE (INTERIOR) OF THE FENCE; WHILE CABLES SHALL BE INSTALLED ON THE EXTERIOR SIDE OF POST.
6. PROVIDE NECESSARY SLACK IN CABLES (GATES ONLY) TO ALLOW FOR FULL SWING OF ALL GATE LEAVES.
7. OFFSET DEADMAN SYSTEMS FROM FENCELINE (PLAN VIEW) TO AVOID CONFLICT WITH EXISTING FENCE POSTS.
8. ALLOW EPOXY ANCHOR BOLTS (MIN 2 DAYS) & CONCRETE DEADMEN (MIN 7 DAYS) TO CURE, PRIOR TO APPLYING LOADS (INSTALLING TURNBUCKLES & STRAIGHTENING CABLES).
9. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1. ALL WELD MATERIAL SHALL BE E70XX ELECTRODES.
10. STRUCTURAL STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NINTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION FOR ALLOWANCE STRESS DESIGN."
11. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS OF 36,000 psi.
12. ALL STRUCTURAL STEEL MEMBERS AND HARDWARE USED IN CABLE ANCHORING SYSTEM SHALL BE HOT-DIPPED GALVANIZED. ANY AREAS WHERE COATING IS DAMAGES OR REMOVED SHALL BE COVERED WITH A ZINC RICH COMPOUND.
13. TURNBUCKLES SHALL BE 1 $\frac{1}{4}$"x18", TYPE I, GALVANIZED IN ACCORDANCE WITH ASTM F1145.
14. WIRE ROPE CLAMPS SHALL BE TYPE I, GALVANIZED, AND CONFORM TO FS FF-C-450.
15. 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 AT LEAST TWO COATS, 4 MILS MIN TOTAL THICKNESS.
16. 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.
17. 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. THE MINIMUM CONCRETE COVER SHALL BE 3", UNLESS OTHERWISE NOTED.
18. DESIGN CRITERIA:
    UFC 4-022-03 "SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES"
    UFC 4-022-02 "SELECTION AND APPLICATION OF VEHICLE BARRIERS"
19. AT CABLE REINFORCING GATES, PROVIDE TWIST-OFF METAL TIES TO SECURE CABLE TO GATE FABRIC @ 24" OC & U-BOLTS TO SECURE TO GATE UPRIGHTS. MODIFY AS NEEDED TO FACILITATE OPERATION OF GATE

LAYOUT OF REINFORCING:

DESIGNER OF RECORD TO LOCATE DEADMEN ON SITE PLANS, SATISFYING SPACING CRITERIA, OVERLAPS, AND FENCE CORNERS / TURNING POINTS. AT GATES IT IS DESIRABLE TO HAVE TRAFFIC ON EITHER SIDE OF A MEDIAN TO OPERATE AND PROTECT INDEPENDENTLY (NOT UTILIZING THE SAME DEADMAN SYSTEMS). THEREFORE, DEADMEN SHOULD BE PLACED IN THE MEDIAN TO ANCHOR THE GATE REINFORCING FOR EACH SIDE OF THE ROAD. IF THERE IS NO PHYSICAL MEDIAN (MERELY PAINTED LINES), LIMITED ROOM, OR UTILITY CONFLICTS THAT DO NOT ALLOW FOR DEADMEN PLACEMENT BETWEEN GATES, ENSURE THAT THE CABLING FOR BOTH GATES ARE CONNECTED - EITHER DIRECTLY OR VIA AN INTERMEDIATE CABLE WHICH CREATES AN INTEGRAL CABLE SYSTEM ACROSS THE ENTIRE GATE AREA.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI · MITCHELL L. STROTHER · NUMBER E-024556 · REGISTERED PROFESSIONAL ENGINEER

Mitch Strother
Digitally signed by Mitch Strother
Date: 2026.07.01 09:41:30 -05'00'

MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

ARMY NATIONAL GUARD

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI
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FACILITIES DIVISION
6819A N. BOUNDARY ROAD
JEFFERSON CITY, MO 65101
PHONE: 573-638-9500, EXT. 37015

MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

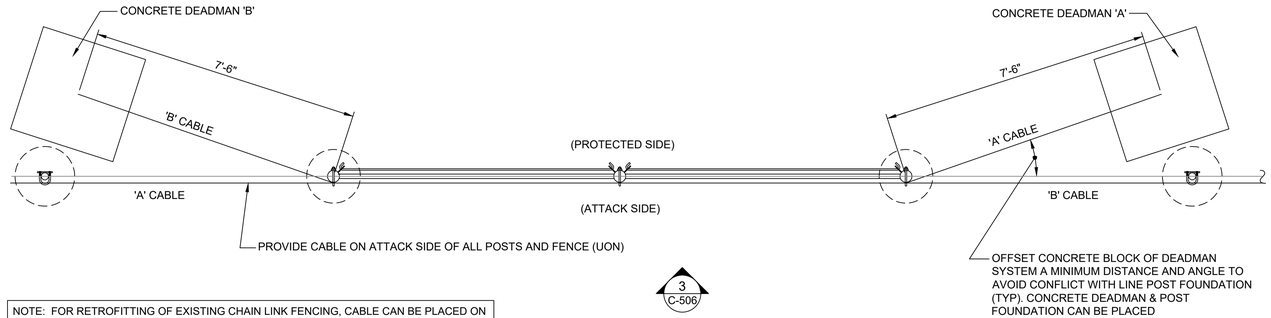
SHEET TITLE:

TYPICAL CABLE REINFORCED CHAIN LINK

SHEET NUMBER:

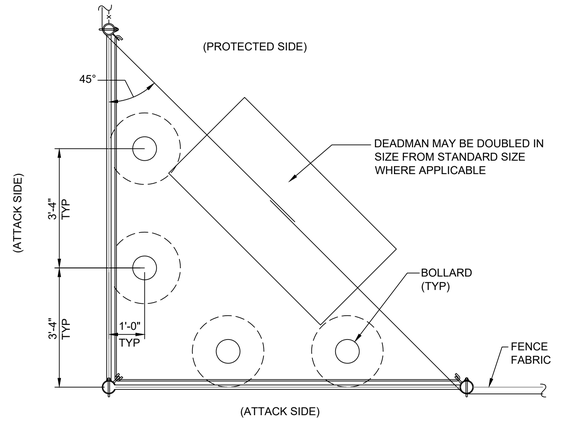
C-505

SHEET: 11 OF 15
DATE: 07/01/2026



NOTE: FOR RETROFITTING OF EXISTING CHAIN LINK FENCING, CABLE CAN BE PLACED ON THE ATTACK SIDE OF THE FENCE FABRIC. FOR NEW CONSTRUCTION, CABLE SHALL BE INSTALLED ON ATTACK SIDE OF POST, BETWEEN POST AND FABRIC.

3 C-506

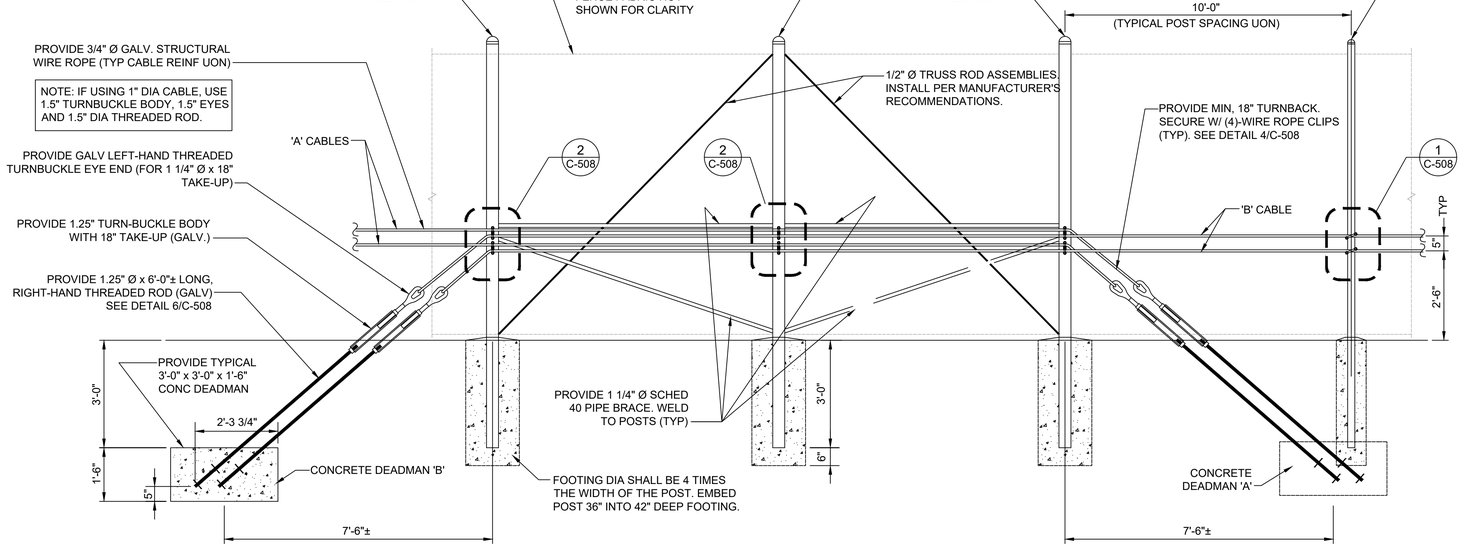


2 C-506 TURNING POINT POST LAYOUT (EXTERNAL CORNER)

SCALE: 1/2" = 1'-0"

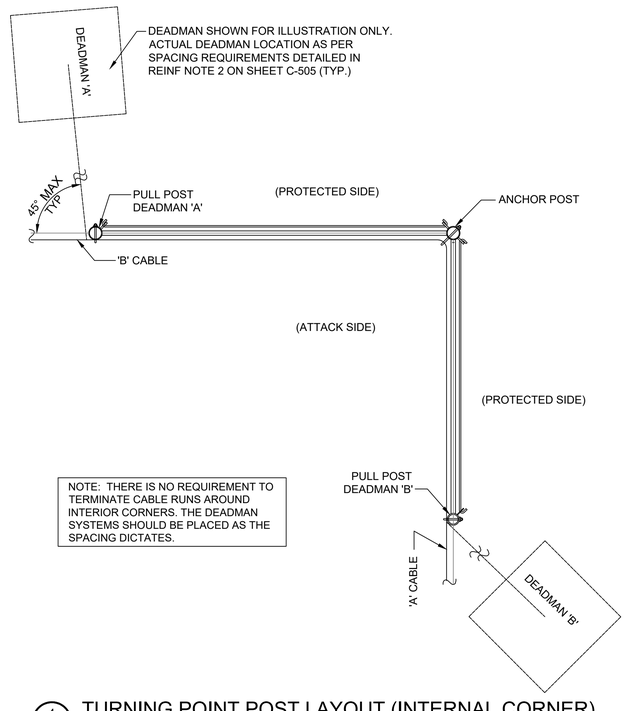
1 C-506 DEADMAN AND LINE POST LAYOUT (PLAN VIEW)

SCALE: 1/2" = 1'-0"



3 C-506 TYPICAL DEADMAN AND LINE POST LAYOUT (ELEVATION)

SCALE: 1/2" = 1'-0"



NOTE: THERE IS NO REQUIREMENT TO TERMINATE CABLE RUNS AROUND INTERIOR CORNERS. THE DEADMAN SYSTEMS SHOULD BE PLACED AS THE SPACING DICTATES.

4 C-506 TURNING POINT POST LAYOUT (INTERNAL CORNER)

NOT TO SCALE

GENERAL NOTE:
DETAILS AND NOTES ON THIS SHEET WERE DERIVED FROM THE UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING, FENCES, GATES AND GUARD FACILITIES DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING, DRAWING NUMBER UFC-711.

MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
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Mitch Strother
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MITCHELL L. STROTHER
PROFESSIONAL ENGINEER - E-024556

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JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

SHEET TITLE:

CABLE REINFORCED CHAIN LINK FENCE-DEADMAN & LINE POST

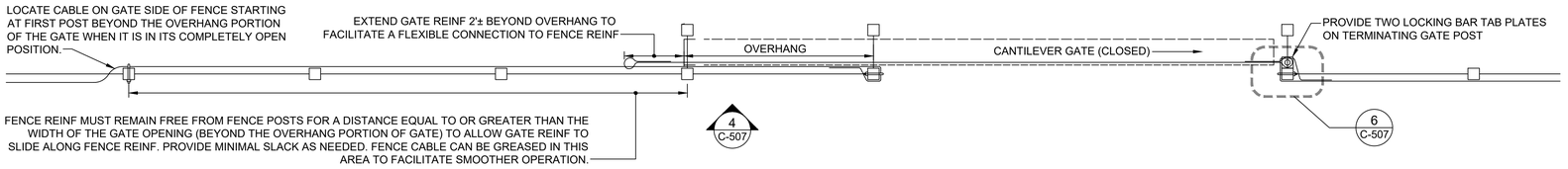
SHEET NUMBER:

C-506

SHEET: 12 OF 15
DATE: 07/01/2026

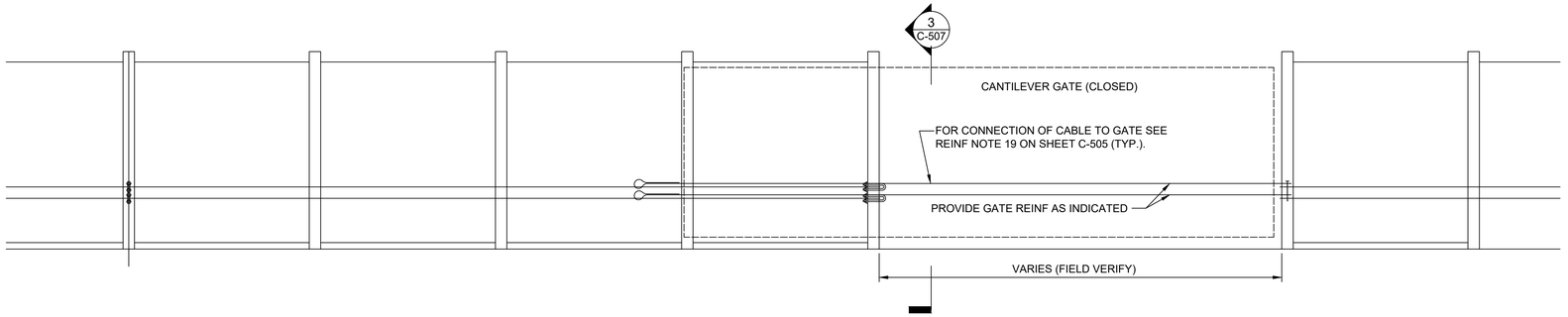
PLAN VIEW (GATE OPEN)

SCALE: 1/2" = 1'-0"



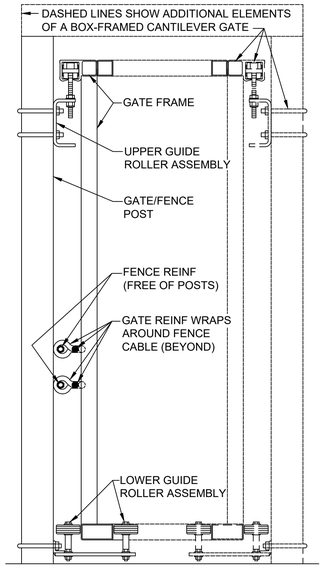
1 C-507 PLAN VIEW (GATE CLOSED)

SCALE: 1/2" = 1'-0"



2 C-507 CABLE REINFORCING CANTILEVER SLIDE GATE (ELEVATION)

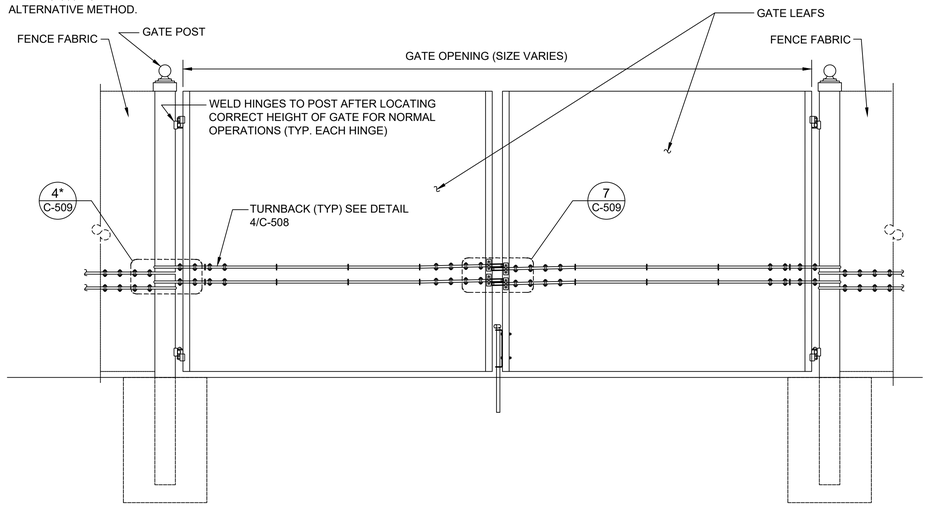
SCALE: 1/2" = 1'-0"



3 C-507 GATE SECTION

SCALE: 1/2" = 1'-0"

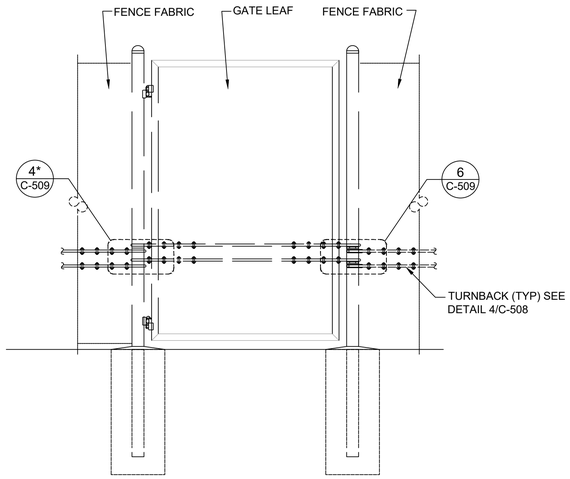
*NOTE: SEE DETAIL 1 ON SHEET C-509 FOR ALTERNATIVE METHOD.



4 C-507 CABLE REINFORCING FOR DOUBLE SWING GATE (ELEVATION)

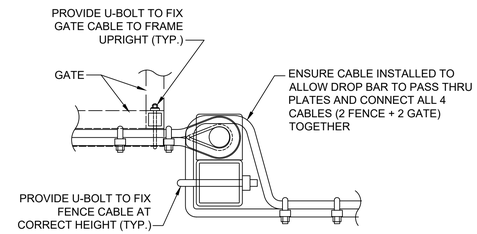
SCALE: 1/2" = 1'-0"

*NOTE: SEE DETAIL 1 ON SHEET C-509 FOR ALTERNATIVE METHOD.



5 C-507 CABLE REINFORCING FOR SINGLE SWING GATE (ELEVATION)

SCALE: 1/2" = 1'-0"



6 C-507 GATE SECTION

NOT TO SCALE

GENERAL NOTE:
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MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

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MIKE KEHOE, GOVERNOR

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Mitch Strother
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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

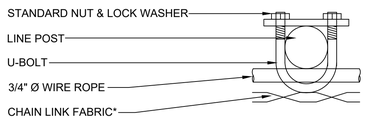
SHEET TITLE:

CABLE REINFORCED CHAIN LINK FENCE - GATE DETAILS

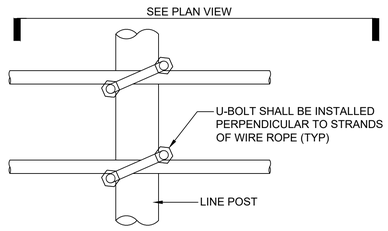
SHEET NUMBER:

C-507

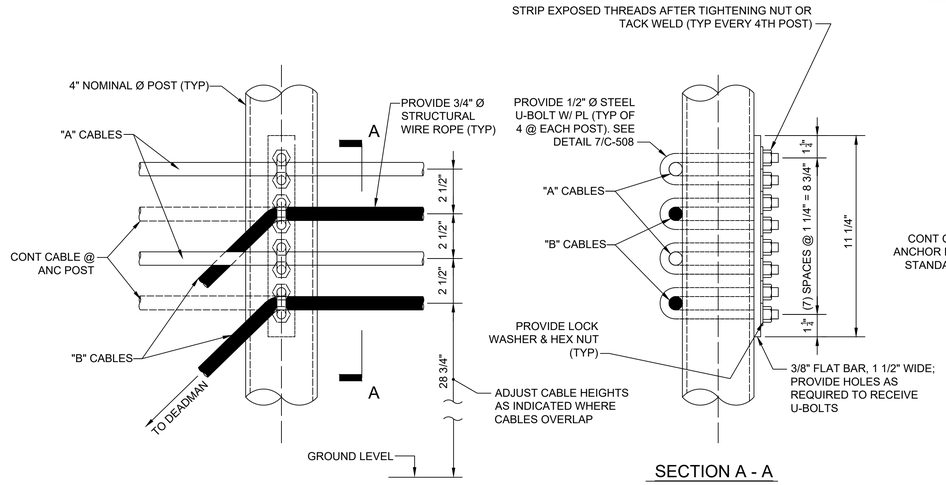
SHEET: 13 OF 15
DATE: 07/01/2026



PLAN VIEW
SCALE: 3" = 1'-0"



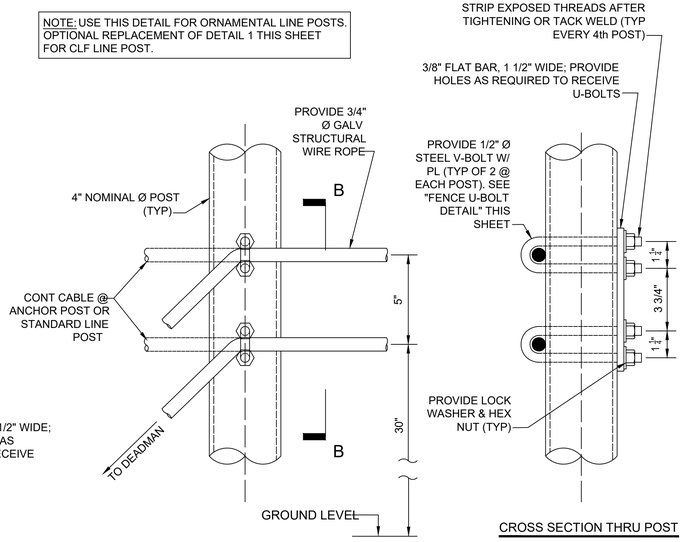
1 C-508 LINE POST DETAIL (CLF ONLY)
SCALE: 3" = 1'-0"



SECTION A - A

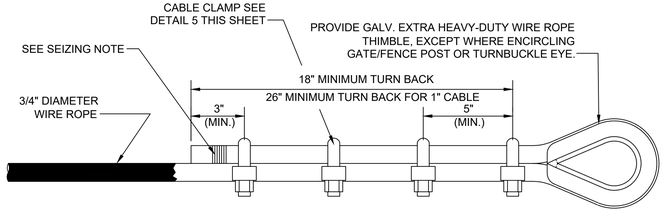
2 C-508 CABLE ANCHORAGE DETAIL @ PULL & ANCH POST W/ OVERLAPPING CABLES
SCALE: 3" = 1'-0"

NOTE: USE THIS DETAIL FOR ORNAMENTAL LINE POSTS. OPTIONAL REPLACEMENT OF DETAIL 1 THIS SHEET FOR CLF LINE POST.



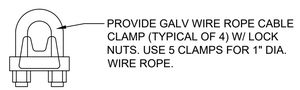
CROSS SECTION THRU POST

3 C-508 CABLE ANCHORAGE DETAIL @ PULL & ANCHOR POST
SCALE: 3" = 1'-0"

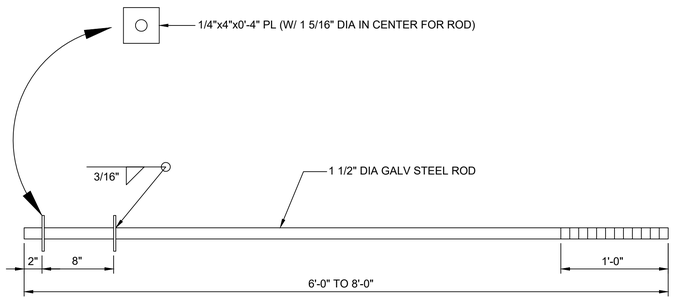


ORNAMENTAL FENCE NOTE: STRIP VINYL COATING OFF WIRE ROPE IN AREA OF CLIPS AND THIMBLE (APPROX. LAST 4'-6").	SEIZING NOTE: WIND SEIZING WIRE IN A TIGHT SPIRAL AROUND THE ROPE END TO A 1" LENGTH OF SEIZING. TWIST THE TWO ENDS OF THE SEIZING WIRE AT THE CENTER OF THE SEIZING LENGTH. USE ZINC COATED STEEL WIRE.
NOTE (ALL FENCE TYPES): INSTALL SADDLE OF CLIPS ON LIVE SIDE (AS SHOWN). SEIZE CUT END OF WIRE ROPE, AND TORQUE NUTS PER MANUFACTURER'S RECOMMENDATIONS (TYP).	

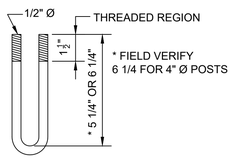
4 C-508 TURNBACK AND CLAMP DETAIL
SCALE: 3" = 1'-0"



5 C-508 CLAMP DETAIL
NOT TO SCALE



6 C-508 DEADMAN ANCHOR ROD
SCALE: 1 1/2" = 1'-0"



7 C-508 FENCE U-BOLT DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE:
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MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

STATE OF MISSOURI
MIKE KEHOE,
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STATE OF MISSOURI · MITCHELL L. STROTHER · NUMBER E-024556 · REGISTERED PROFESSIONAL ENGINEER

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MILITARY VEHICLE COMPOUND, FENCING AND SITE IMPROVEMENTS

JEFFERSON BARRACKS
74 KEARNEY ST.
ST. LOUIS CO., MO

PROJECT #: T2504-01
SITE #: 6303
ASSET #: 8136303050

REVISION:
DATE:
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DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

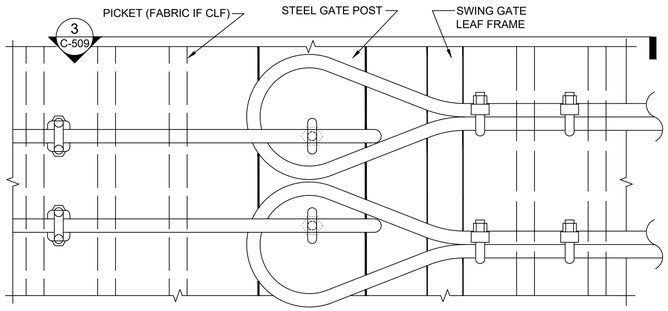
SHEET TITLE:

CABLE REINFORCING DETAILS

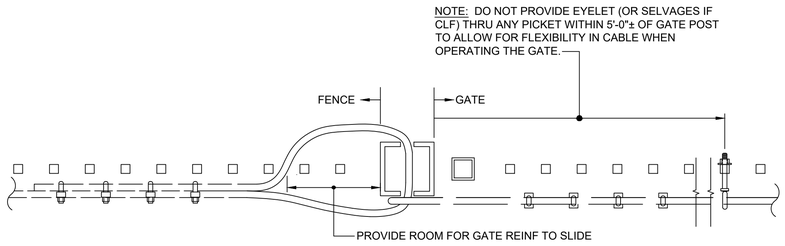
SHEET NUMBER:

C-508

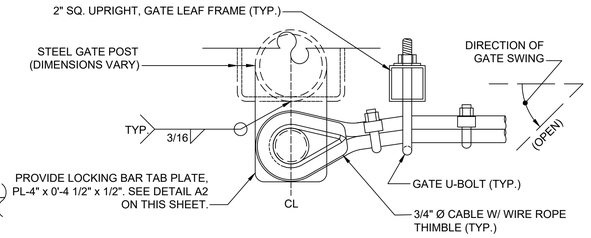
SHEET: 14 OF 15
DATE: 07/01/2026



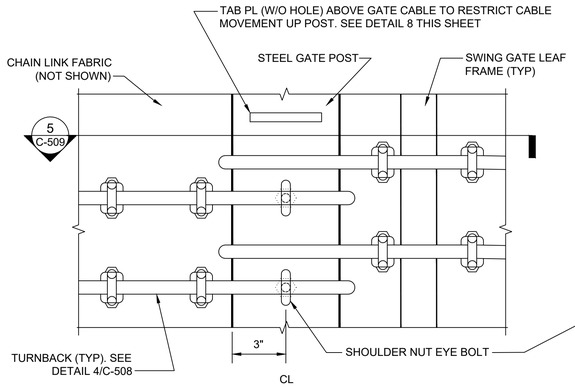
1 C-509 GATE POST DETAIL
SCALE: 3" = 1'-0"



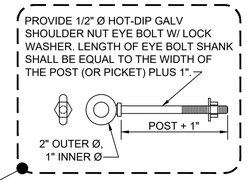
2 C-509 ALTERNATIVE CABLE LASHING - ORNAMENTAL SHOWN (CLF SIMILAR)
SCALE: 3" = 1'-0"



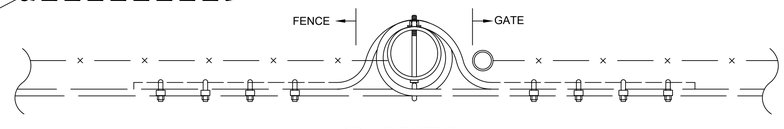
3 C-509 PERSONNEL GATE POST SECTION
SCALE: 3" = 1'-0"



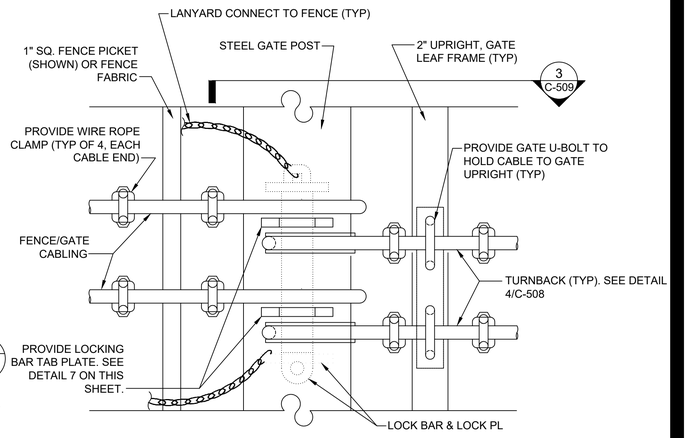
4 C-509 GATE POST DETAIL
SCALE: 3" = 1'-0"



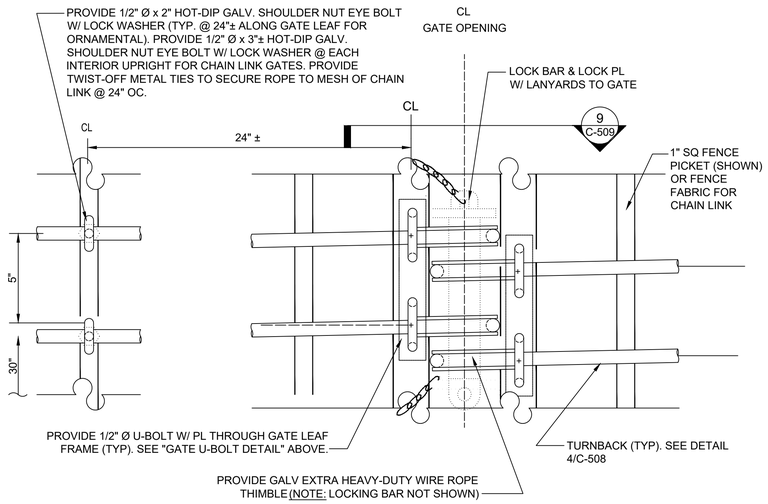
NOTE: CABLING OF STRAIGHT RUN FENCING ADJACENT TO A GATE SHALL ALWAYS TERMINATE AROUND THE GATE POST AND INTERLOCK W/ GATE CABLING TO CREATE AN INTEGRAL SYSTEM. SEE DETAILS D1 & D2 ON THIS SHEET FOR ALTERNATIVE.



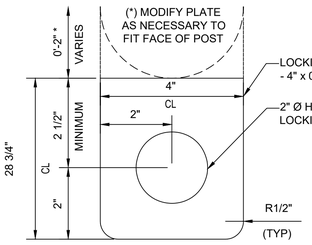
5 C-509 SECTION
SCALE: 1 1.2" = 1'-0"



6 C-509 PERSONNEL GATE POST DETAIL (TYP.)
SCALE: 3" = 1'-0"

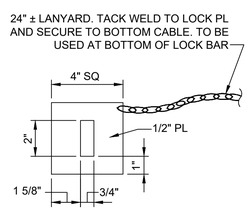


7 C-509 DOUBLE GATE LEAF LOCK DETAIL
SCALE: 3" = 1'-0"

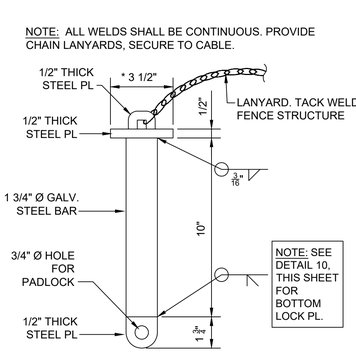


8 C-508 LOCKING BAR TAB PLATE DETAIL
SCALE: 6" = 1'-0"

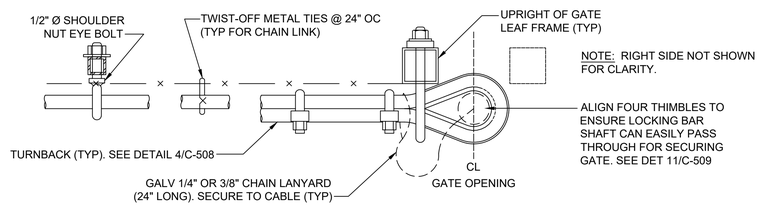
NOTE: POSTS THAT ARE TO RECEIVE LOCKING BAR TAB PLATES WILL NOT REQUIRE SHOULDER NUT EYE BOLTS, AS FENCE/GATE CABLING (STRUCTURAL WIRE ROPE W/ BLACK VINYL COATING) WILL REST ON PLATES TO KEEP FROM SAGGING OR SLIPPING.



10 C-509 LOCK PLATE
SCALE: 3" = 1'-0"



11 C-509 LOCK BAR DETAIL
SCALE: 3" = 1'-0"



9 C-509 SECTION
SCALE: 3" = 1-0"

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MSD Project No.: 26MSD-00227
SD Base Map No.: 29H2

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ASSET #: 8136303050

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DATE:
REVISION:
DATE:
ISSUE DATE: 07/01/2026

CAD DWG FILE: MVC-BASE-FINAL
DRAWN BY: RLH
CHECKED BY: MLS
DESIGNED BY: RLH/MLS

SHEET TITLE:

CABLE REINFORCING DETAILS (CONTD)

SHEET NUMBER:

C-509

SHEET: 15 OF 15
DATE: 07/01/2026