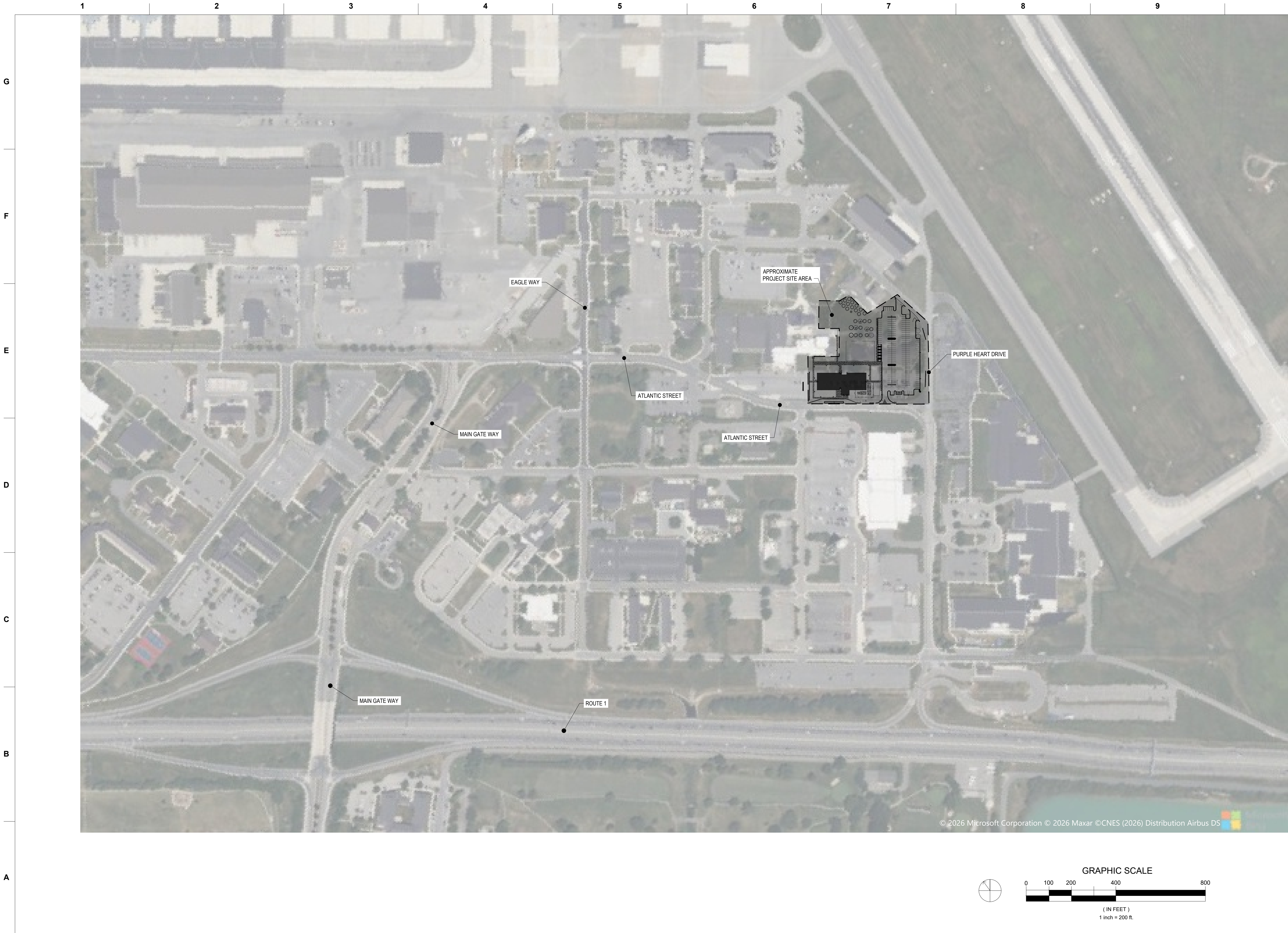
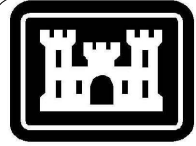


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Plot Date: 8/18/2026 11:51:34 PM





US Army Corps
of Engineers ®

MARK	DESCRIPTION	DATE
4	100% CORRECTED FINAL DESIGN	08/20/2026
3	95% FINAL REDESIGN SUBMISSION	06/26/2026
2	95% FINAL DESIGN SUBMISSION	11/04/2025
1	65% INTERIM DESIGN SUBMISSION	06/24/2025

DESIGNED BY:
D. RYAN

DRAWN BY:
K. BACCARO

CHECKED BY:
G. HARRIS

SUBMITTED BY:
T. LAMB

SIZE:
ANSI D

ISSUE DATE:
AUGUST 2026

SOLICITATION NO.:

CONTRACT NO.:

WBS CODE:

CADD CODE:

P2 NO.:

SCALE:

As Noted

USACE
Louisville District
220 West Main Street
Louisville, KY 40202

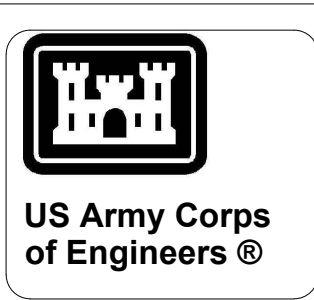
HDR Architecture, Inc. Suite 100
1000 Main Street
Perrinton, NJ 08554

LOCATION AREA MAP

SHEET ID
C-002

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CORRECTED DESIGN



MARK	DESCRIPTION	DATE
4	100% CORRECTED FINAL DESIGN	08/20/2026
3	95% FINAL REDESIGN SUBMISSION	06/26/2026
2	95% FINAL DESIGN SUBMISSION	11/04/2025
1	65% INTERIM DESIGN SUBMISSION	06/24/2025

DESIGNED BY: D. RYAN	ISSUE DATE: AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. HARRIS	CONTRACT NO.:
SUBMITTED BY: T. LAMB	CADD CODE:
SIZE:	P2 NO.:
ANSI:	SCALE:
D	As Noted

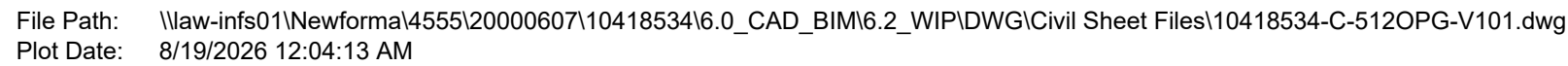
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

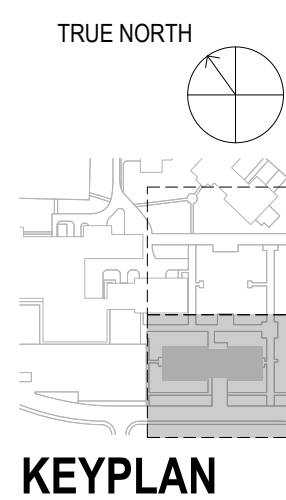
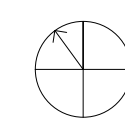
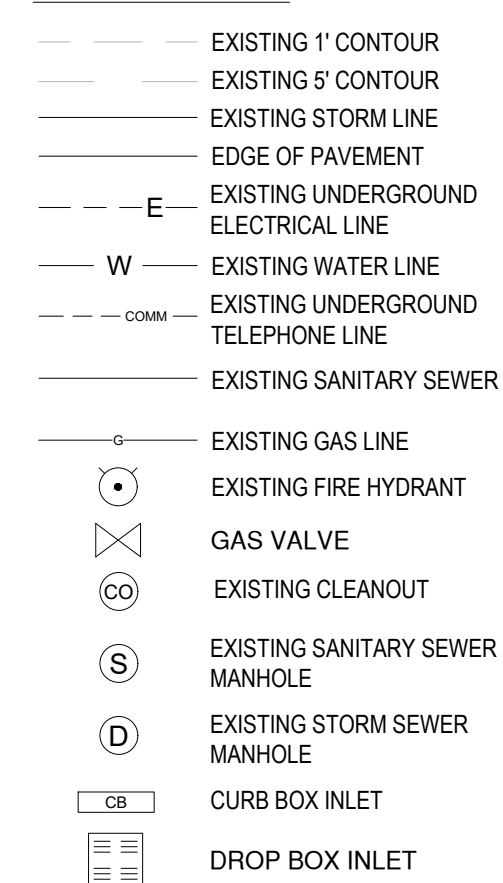
HDR
HDR Architecture, Inc. Suite 100
100 Jackson Street
Perrinton, NJ 08534

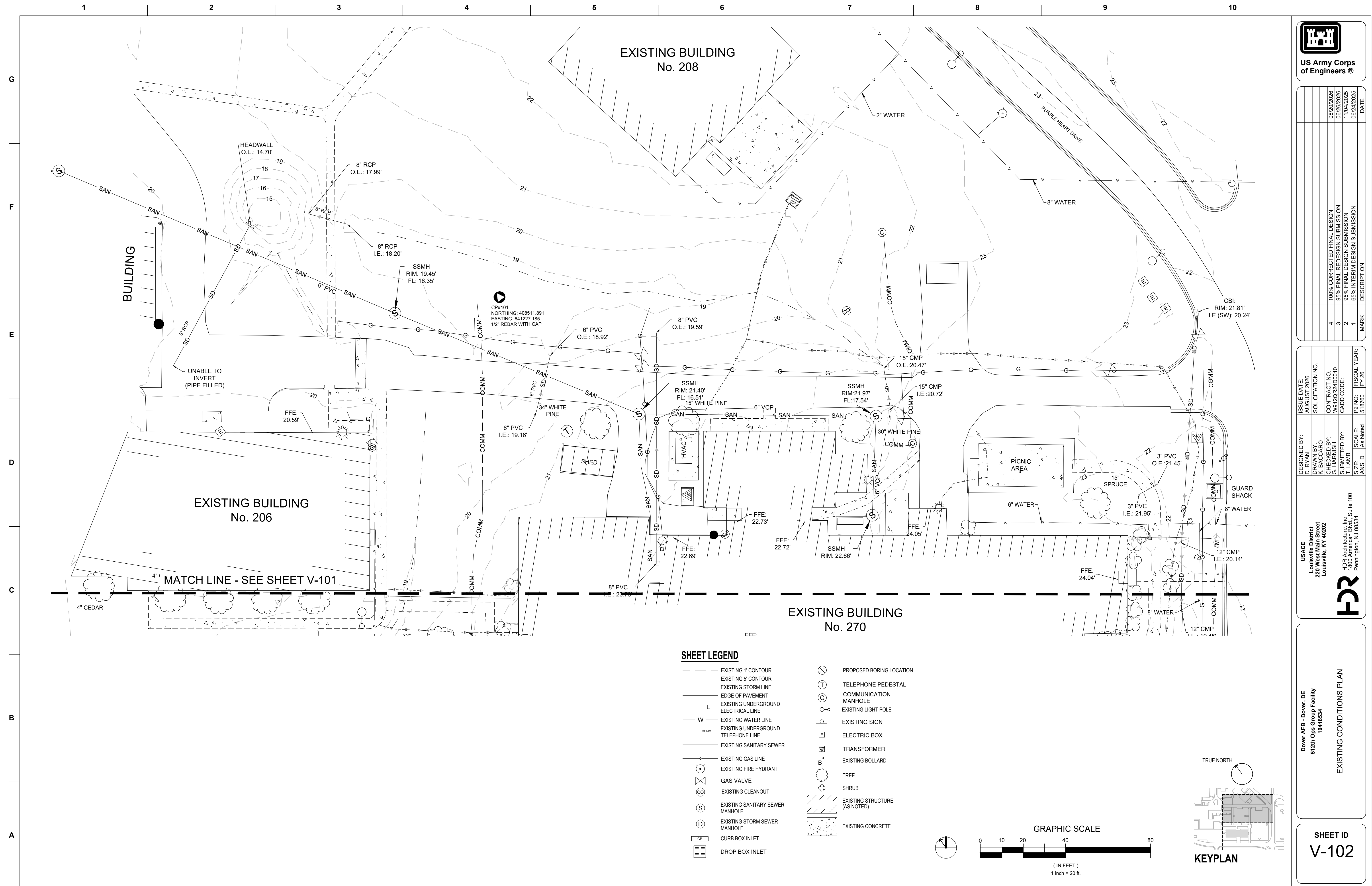
Dover AFB - Dover, DE
512th Ops Group Facility
10418534

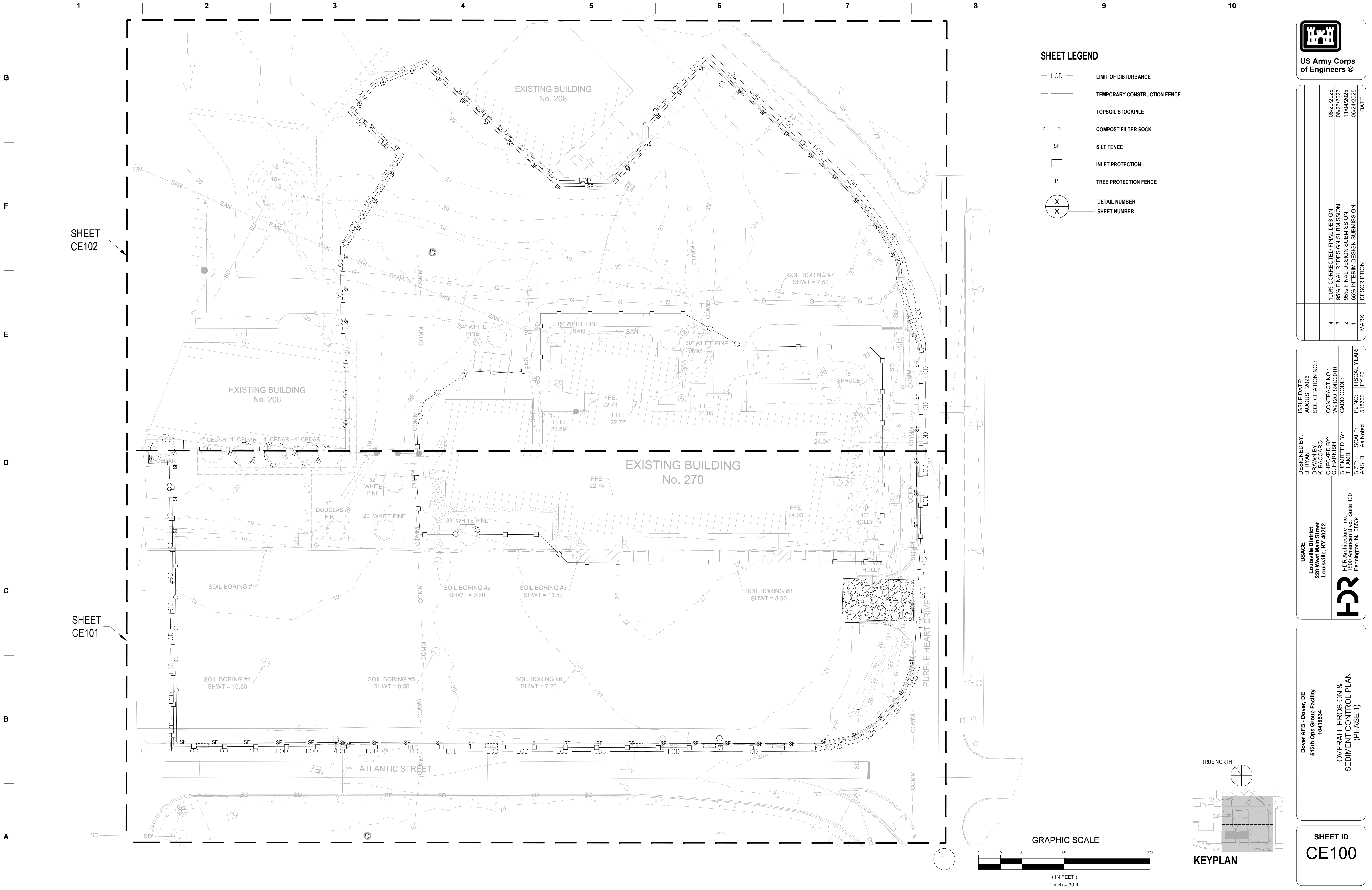
LOCATION AREA MAP

SHEET ID
C-003











US Army Corps
of Engineers ®

		DATE
	100% CORRECTED FINAL DESIGN	08/20/2026
4	95% FINAL REDESIGN SUBMISSION	06/26/2026
3	95% FINAL REDESIGN SUBMISSION	11/04/2025
2	65% INTERIM DESIGN SUBMISSION	06/24/2025
1		

DESIGNED BY:	ISSUE DATE:
D. RYAN	AUGUST 2026

DRAWN BY:	SOLICITATION NO.:
K. BACCARO	

CHECKED BY:	CONTRACT NO.:
G. HARRIS	WAG00000010

SUBMITTED BY:	CADD CODE:
T. LAMB	

SCALE:	P2 NO.:	FISCAL YEAR:
ANSI D As Noted	518760	FY 26

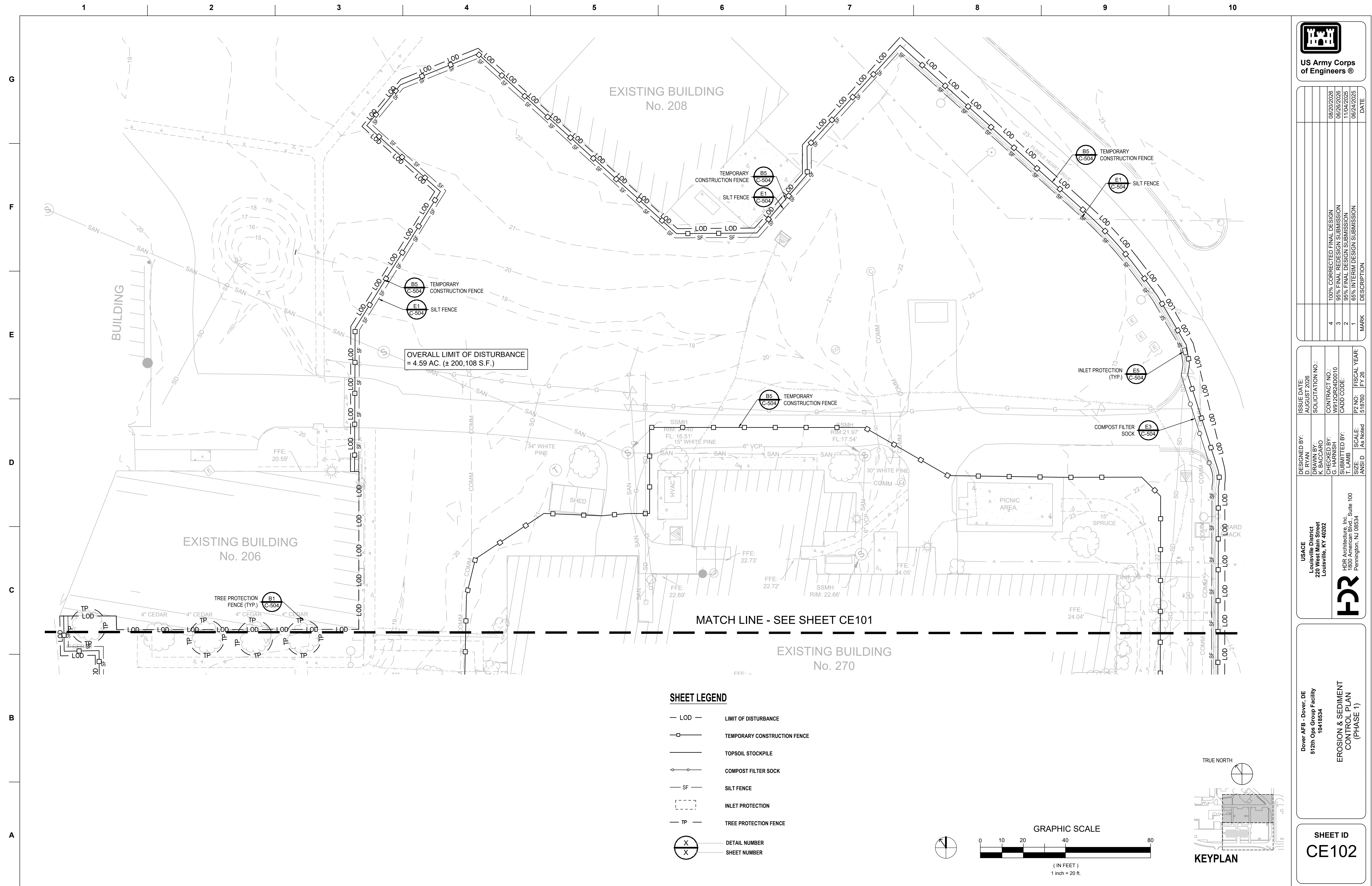
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

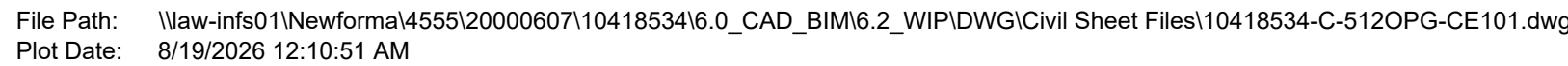
HDR Architecture, Inc. Suite 100
1000 Main Street
Perrinton, NJ 08534

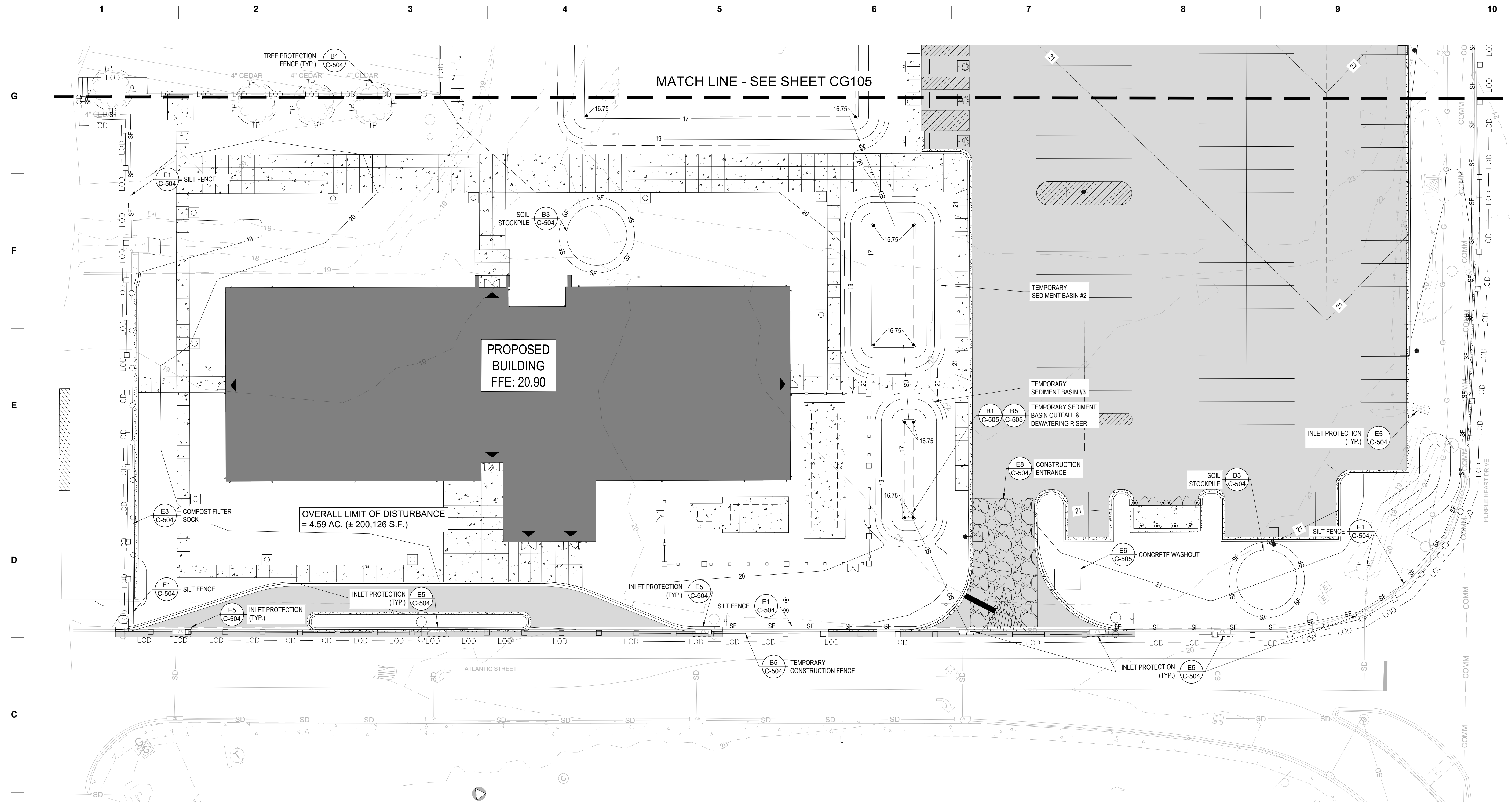
OVERALL EROSION & SEDIMENT CONTROL PLAN (PHASE 1)

DOVER AFB - Dover, DE
512th Ops Group Facility
10418534

SHEET ID
CE100





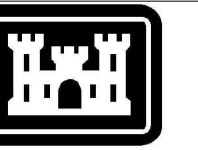
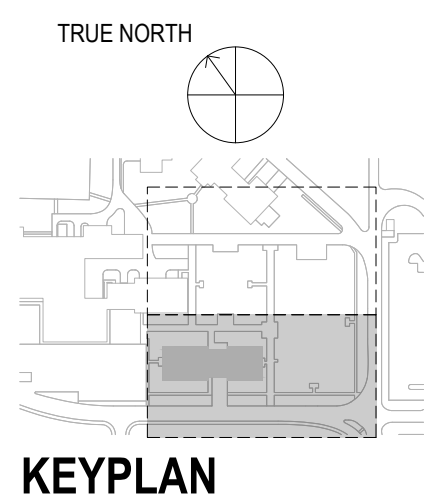
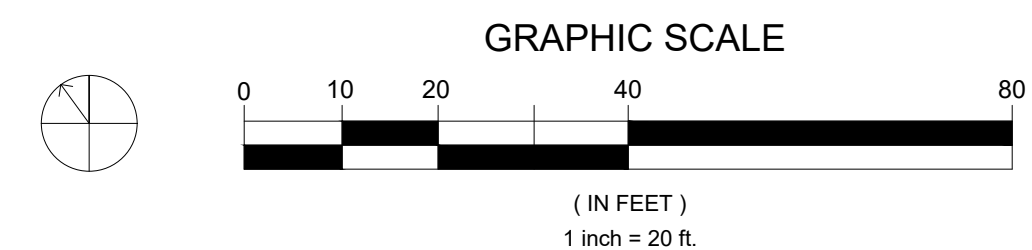


SHEET LEGEND

- | | |
|---|-------------------------------------|
|  | LIMIT OF DISTURBANCE |
|  | TEMPORARY CONSTRUCTION FENCE |
|  | TOPSOIL STOCKPILE |
|  | COMPOST FILTER SOCK |
|  | SILT FENCE |
|  | INLET PROTECTION |
|  | TREE PROTECTION FENCE |
|  | DETAIL NUMBER |
|  | SHEET NUMBER |

NOTES:

1. EXISTING BUILDING TO BE DEMOLISHED AND ASSOCIATED UTILITIES TO BE REMOVED AT BEGINNING OF PHASE 2.
2. SITE IMPROVEMENTS IN AREA OF EXISTING BUILDING TO BE CONSTRUCTED AFTER THE DEMOLITION OF THE EXISTING BUILDING AND ROUGH GRADING HAS BEEN COMPLETED.
3. CONSTRUCTION FENCING TO BE PLACED BETWEEN EXISTING BUILDING 270 AND ADJACENT BUILDING 206 AND THE PROPOSED BUILDING DURING DEMOLITION OF EXISTING BUILDING 270.



**US Army Corps
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[illegible]

D. RYAN	AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. G. HARNISH	CONTRACT NO.: W912QR24D0010
SUBMITTED BY: T. LAMB	CADD CODE:
SCALE: ANSI D	P2 NO.: 518760
	FISCAL YEAR: FY 26

Louisville District
220 West Main Street
Louisville, KY 40202

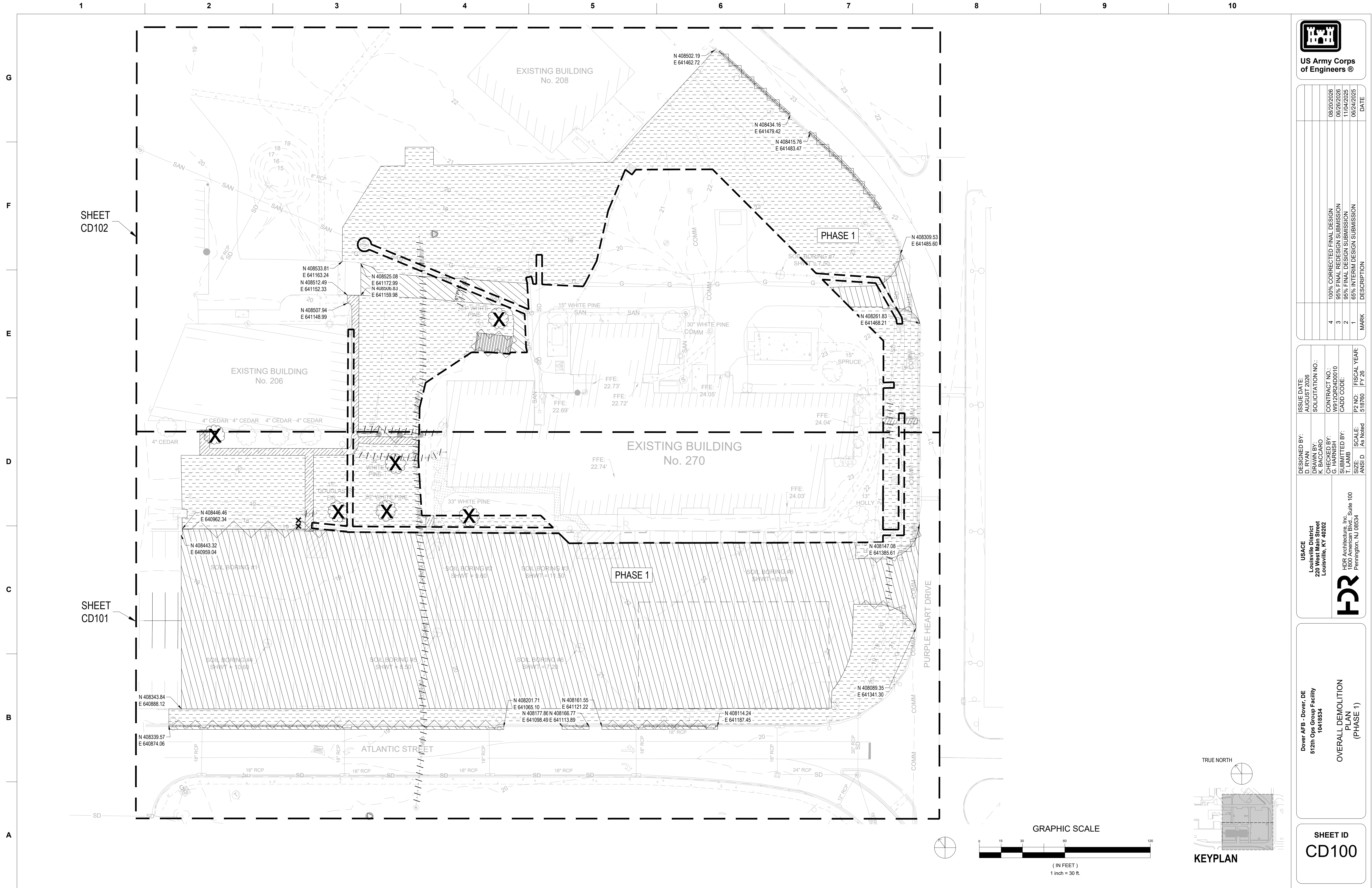
HDR Architecture, Inc.
1800 American Blvd., Suite 100
Pennington, NJ 08534

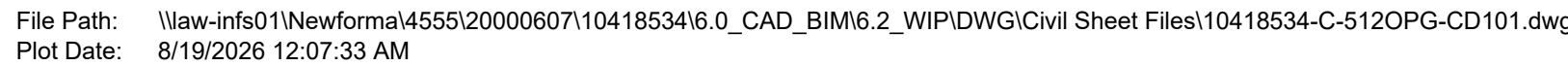
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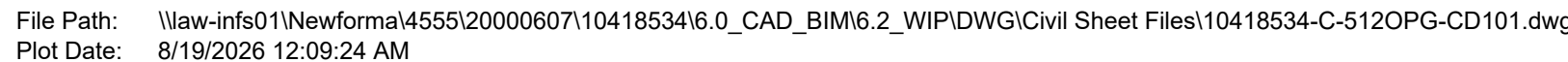
512th Ops Group Facility
10418534

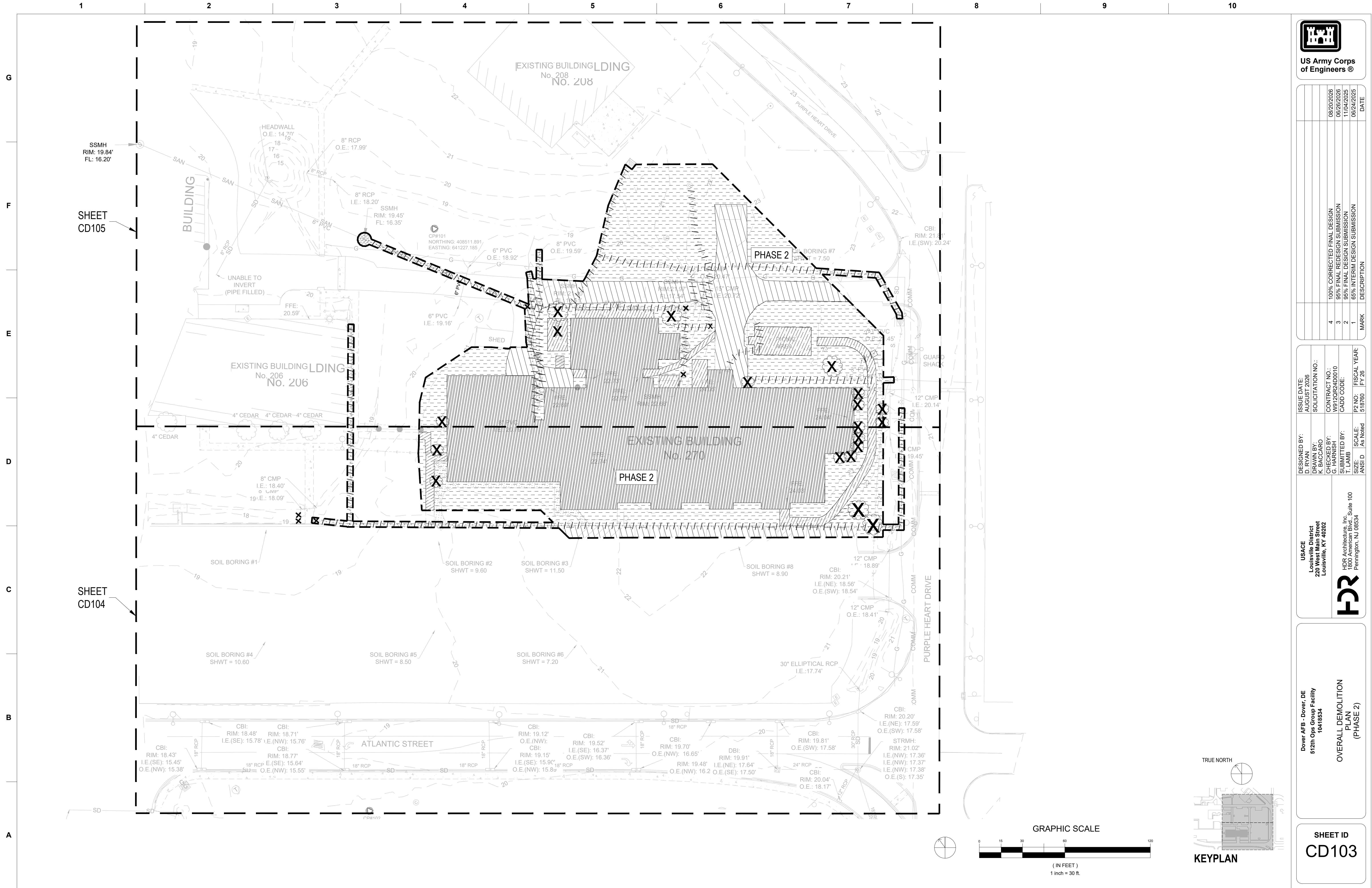
CONTROL PLAN
(PHASE 2)

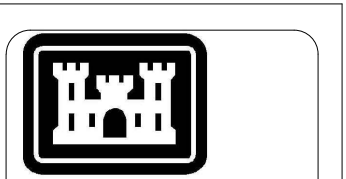
SHEET ID
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US Army Corps
of Engineers ©

DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
06/26/2026	95% FINAL REDESIGN SUBMISSION	3
11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

DESIGNED BY:
D. RYAN

DRAWN BY:
K. BACCARO

CHECKED BY:
G. HARRIS

SUBMITTED BY:
T. LAMB

SCALE:
As Noted

ISSUE DATE:
AUGUST 2026

SOLICITATION NO.:
220 West Main Street
Louisville, KY 40202

CONTRACT NO.:
10418534-0010

CADD CODE:
P2 NO. 518760

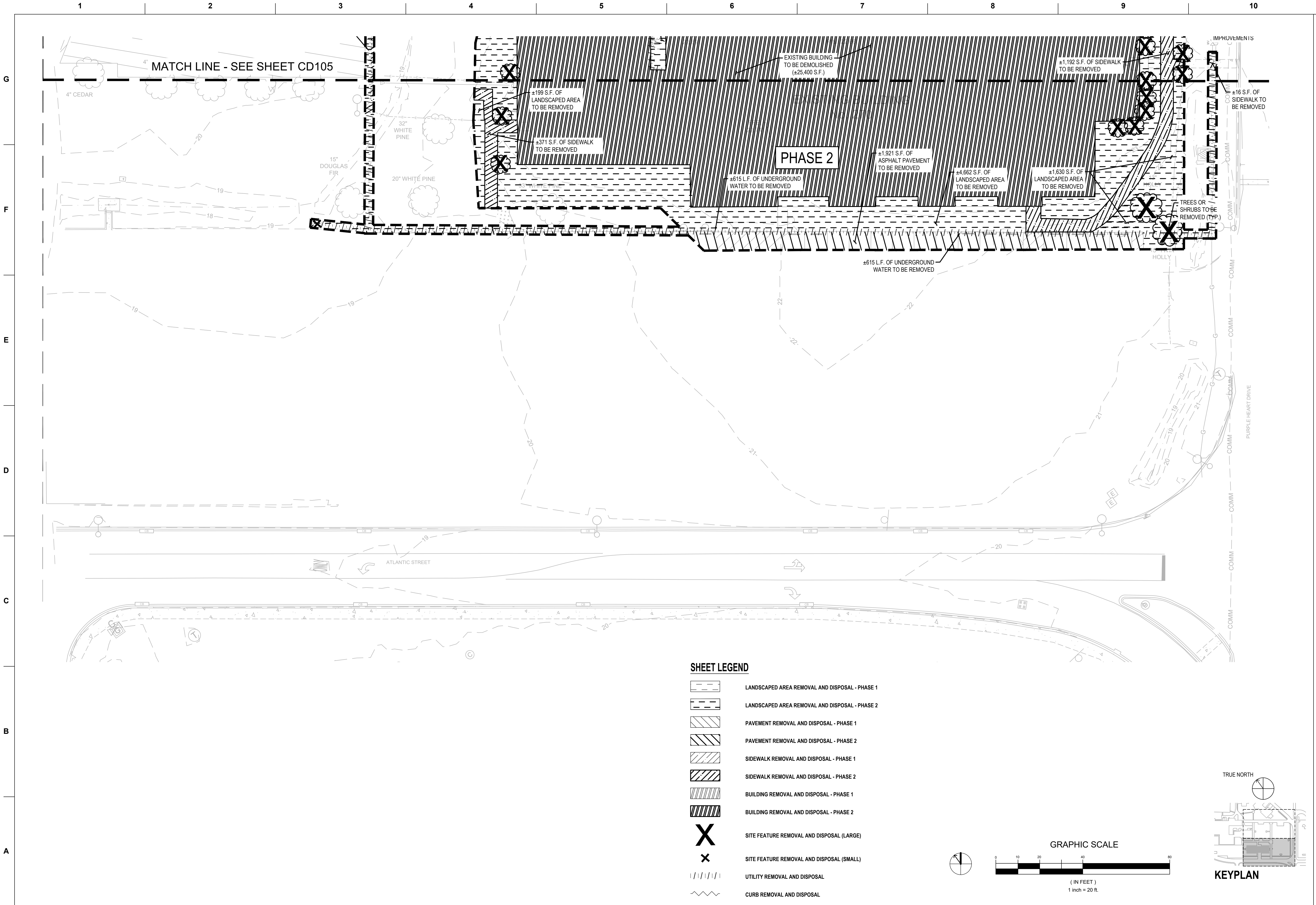
FISCAL YEAR:
FY 26

USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR Architecture, Inc. Suite 100
1000 Lexington Road
Perrinton, NJ 08534

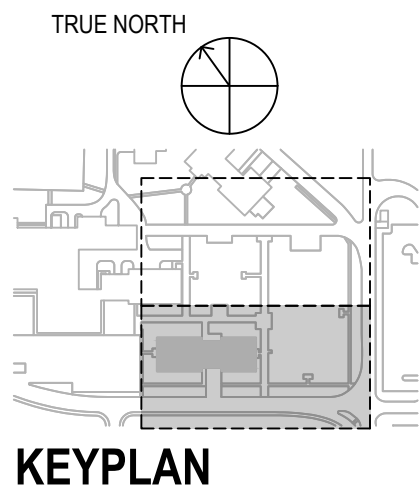
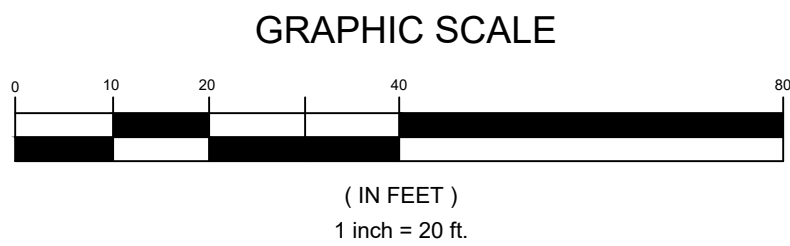
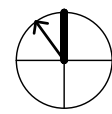
OVERALL DEMOLITION
PLAN
(PHASE 2)

SHEET ID
CD103



SHEET LEGEND

- LANDSCAPED AREA REMOVAL AND DISPOSAL - PHASE 1
- LANDSCAPED AREA REMOVAL AND DISPOSAL - PHASE 2
- PAVEMENT REMOVAL AND DISPOSAL - PHASE 1
- PAVEMENT REMOVAL AND DISPOSAL - PHASE 2
- SIDEWALK REMOVAL AND DISPOSAL - PHASE 1
- SIDEWALK REMOVAL AND DISPOSAL - PHASE 2
- BUILDING REMOVAL AND DISPOSAL - PHASE 1
- BUILDING REMOVAL AND DISPOSAL - PHASE 2
- SITE FEATURE REMOVAL AND DISPOSAL (LARGE)
- SITE FEATURE REMOVAL AND DISPOSAL (SMALL)
- UTILITY REMOVAL AND DISPOSAL
- CURB REMOVAL AND DISPOSAL



US Army Corps
of Engineers ®

MARK	DESCRIPTION	DATE
4	100% CORRECTED FINAL DESIGN	08/20/2026
3	95% FINAL REDESIGN SUBMISSION	06/26/2026
2	95% FINAL DESIGN SUBMISSION	11/04/2025
1	65% INTERIM DESIGN SUBMISSION	06/24/2025

DESIGNED BY:	ISSUE DATE:
D. RYAN	AUGUST 2026

DRAWN BY:	SOLICITATION NO.:
K. BACCARO	

CHECKED BY:	CONTRACT NO.:
G. HARRIS	W50000010

SUBMITTED BY:	CADD CODE:
T. LAMB	

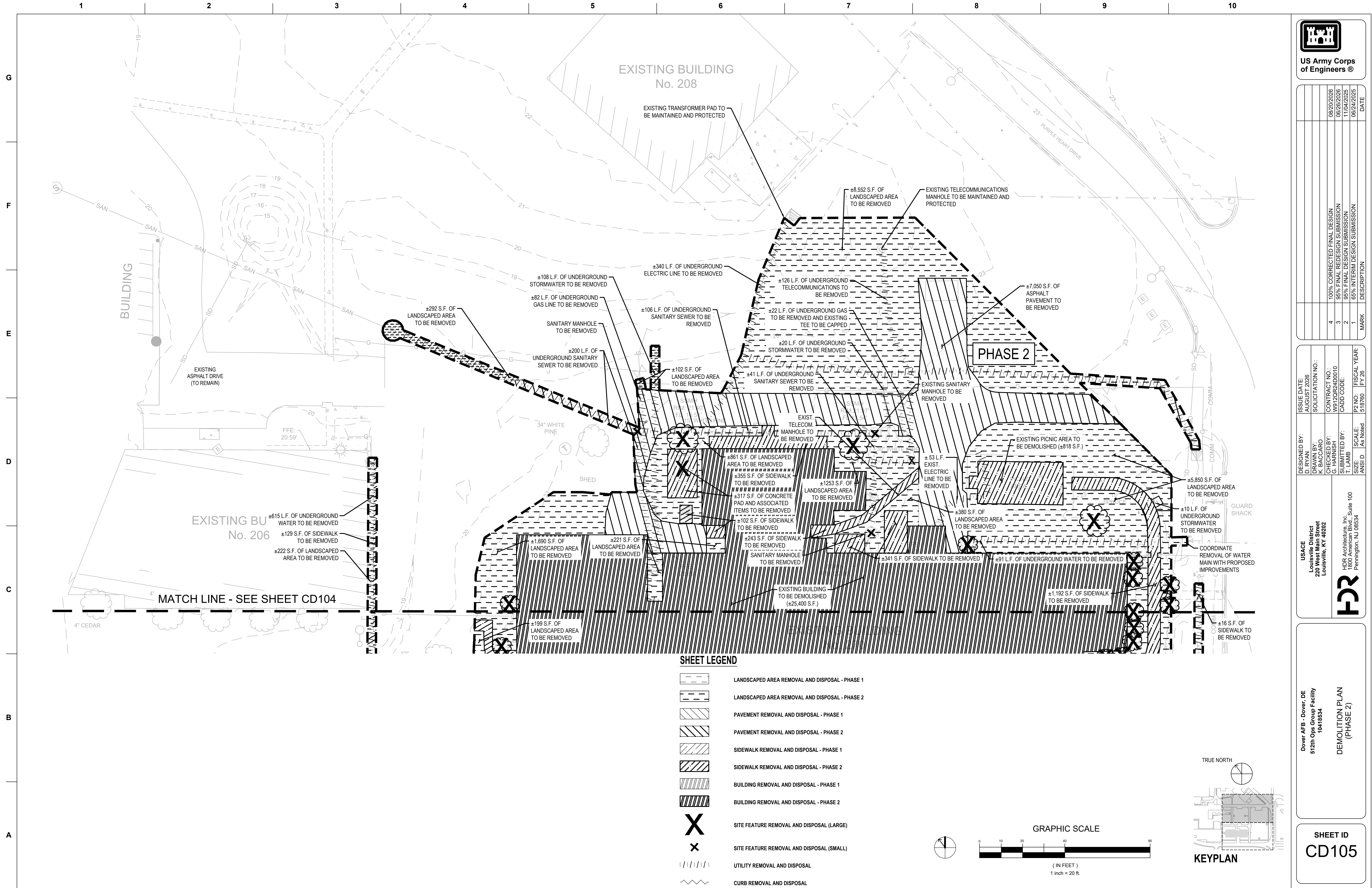
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ANSI D	As Noted	518760	FY 26

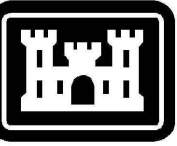
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR
HDR Architecture, Inc. Suite 100
1000 Lexington Road
Perrinton, NJ 08554

DEMOLITION PLAN
(PHASE 2)

SHEET ID
CD104





US Army Corps
of Engineers ®

DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
06/26/2026	95% FINAL REDESIGN SUBMISSION	3
11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

DESIGNED BY:	ISSUE DATE:
D. RYAN	AUGUST 2026

DRAWN BY:	SOLICITATION NO.:
K. BACCARO	

DESIGNED BY:	CONTRACT NO.:
G. HARRIS	W50000010

SUBMITTED BY:	CADD CODE:
T. LAMB	

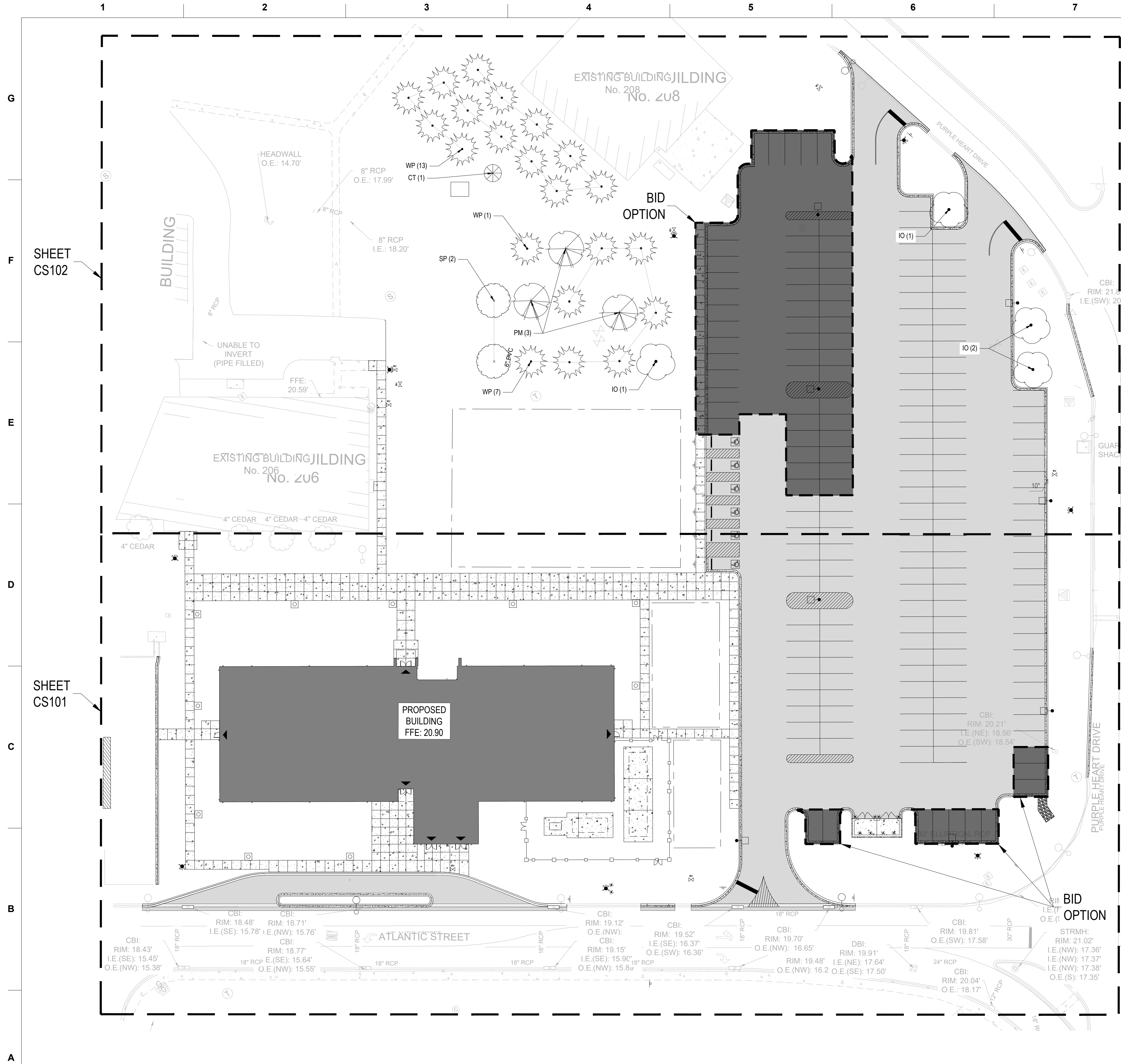
SCALE:	P2 NO.:	FISCAL YEAR:
ANSI D	5:18760	FY 26

USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR Architecture, Inc. Suite 100
1000 Bankers Building
Pennington, NJ 08534

DEMOLITION PLAN
(PHASE 2)

SHEET ID
CD105



PLANTING SCHEDULE					
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
TREES					
	CT	1	CHAMAECYPARIS THYOIDES / ATLANTIC WHITE CEDAR	4" CAL.	B&B
	PM	3	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	6" CAL.	B&B
	WP	21	PINUS STROBUS / EASTERN WHITE PINE	8" CAL.	B&B
	SP	2	PICEA SP. / SPRUCE TREE	8" CAL.	B&B
	IO	4	ILEX OPACA - AMERICAN HOLLY	8" CAL.	B&B



DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
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11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

DESIGNED BY: D. RYAN	ISSUE DATE: AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. HARRIS	CONTRACT NO.:
SUBMITTED BY: T. LAMB	ADD CODE:
SCALE: ANSI D As Noted	P2 NO.:
	FISCAL YEAR: FY 26

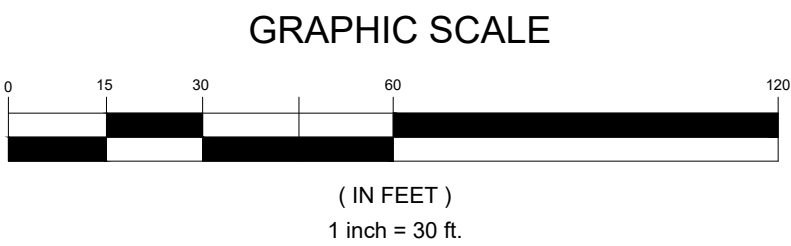
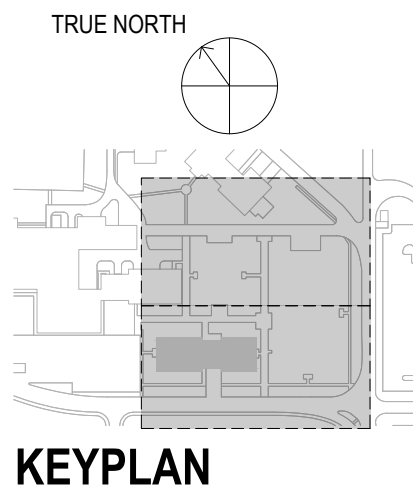
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR Architecture, Inc. Suite 100
1000 Main Street
Pennington, NJ 08534

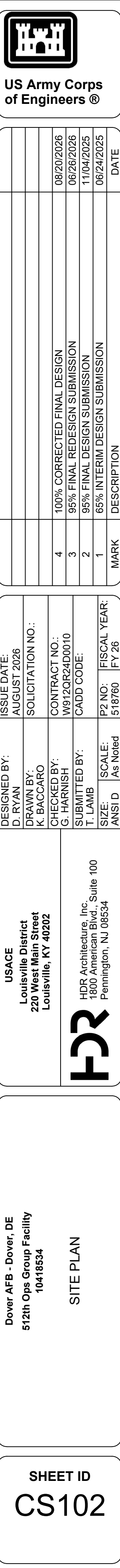
Dover AFB - Dover, DE
512th Ops Group Facility
10418534

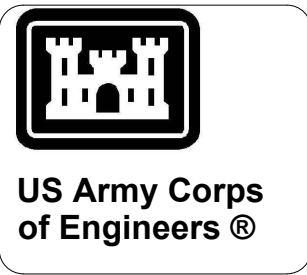
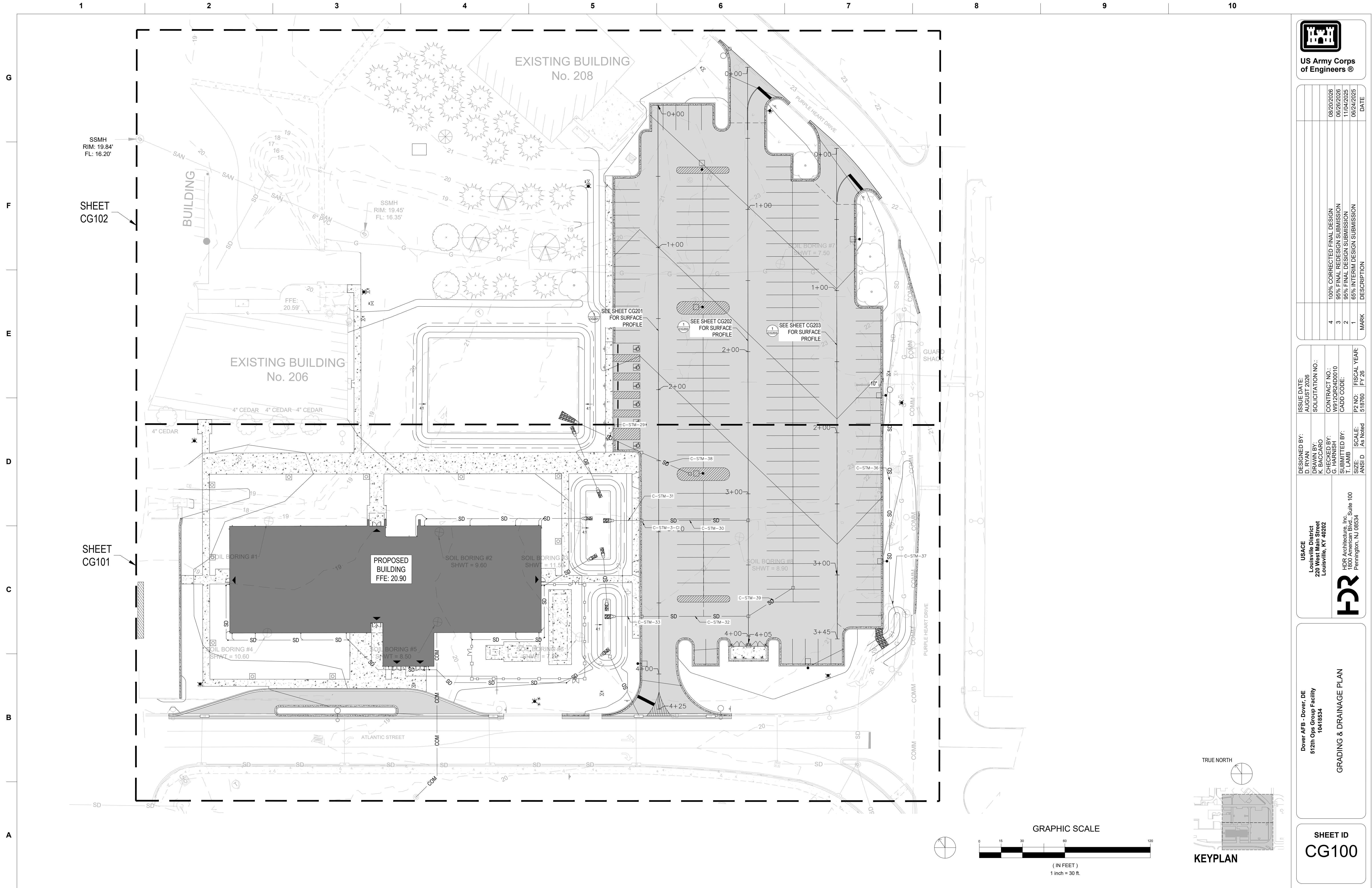
OVERALL SITE PLAN

SHEET ID
CS100









DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
06/26/2026	95% FINAL REDESIGN SUBMISSION	3
11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

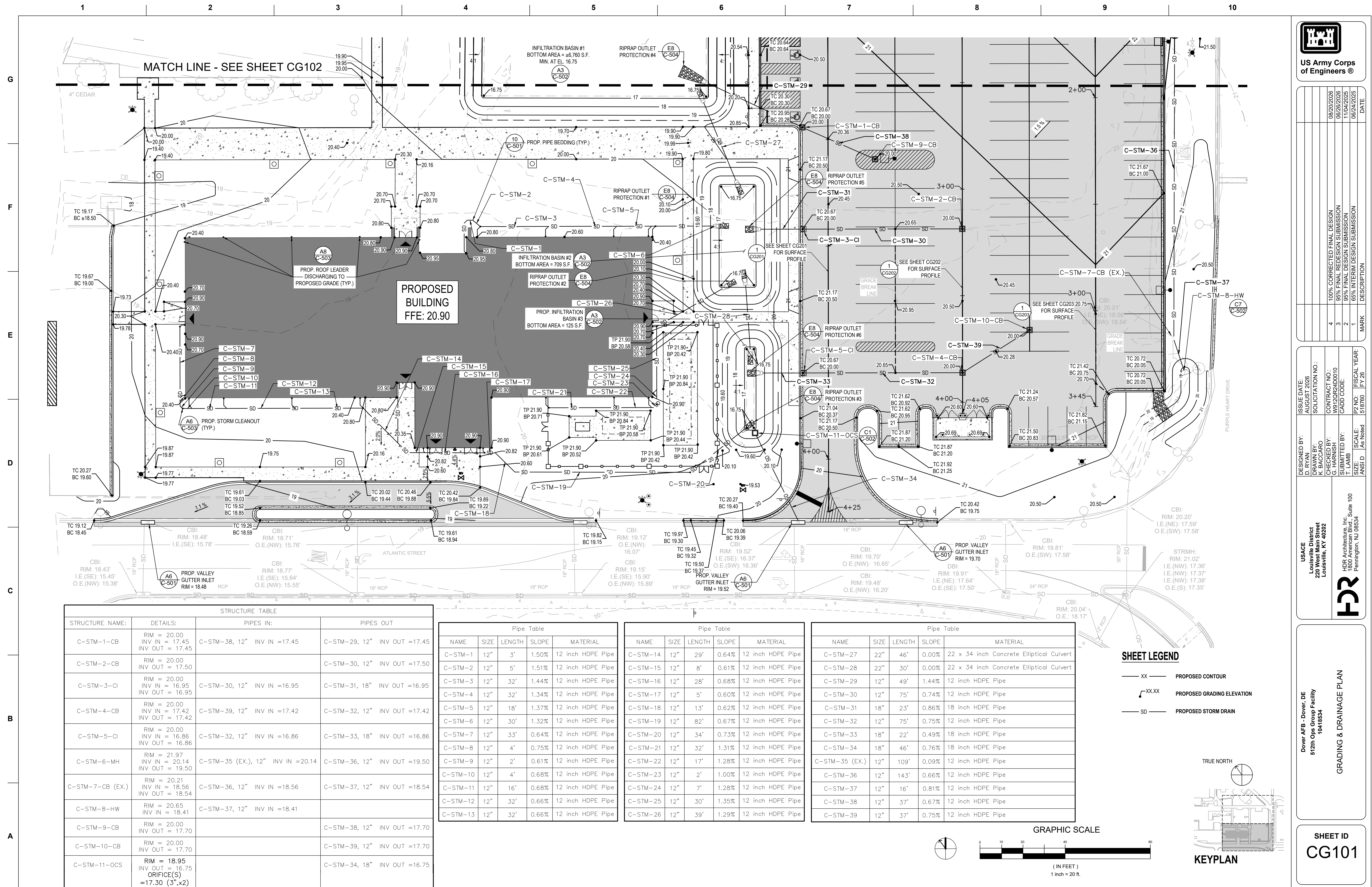
DESIGNED BY: D. RYAN	ISSUE DATE: AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. HARRIS	CONTRACT NO.:
SUBMITTED BY: T. LAMB	CADD CODE:
SCALE: ANSI D As Noted	P2 NO.: 518760
	FISCAL YEAR: FY 26

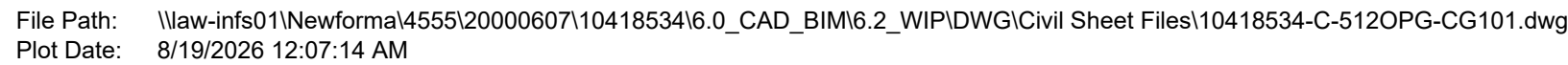
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

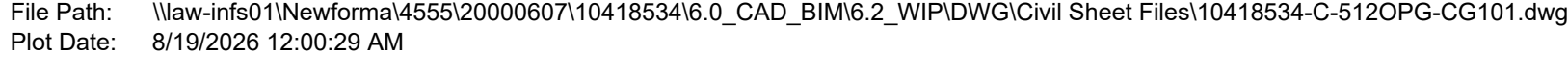
HDR Architecture, Inc. Suite 100
10000 Park Road
Perrinton, NJ 08554

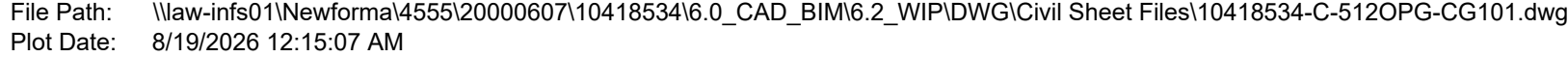
Dover AFB - Dover, DE 512th Ops Group Facility 10418534	GRADING & DRAINAGE PLAN
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SHEET ID CG100









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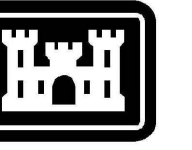
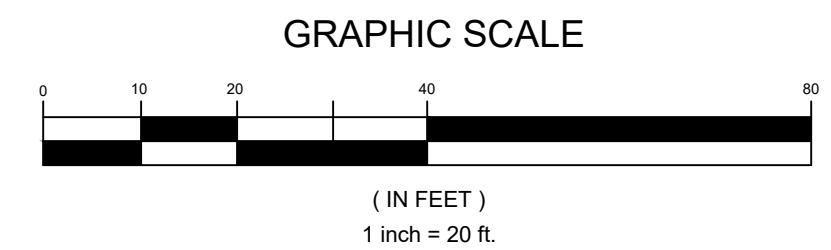
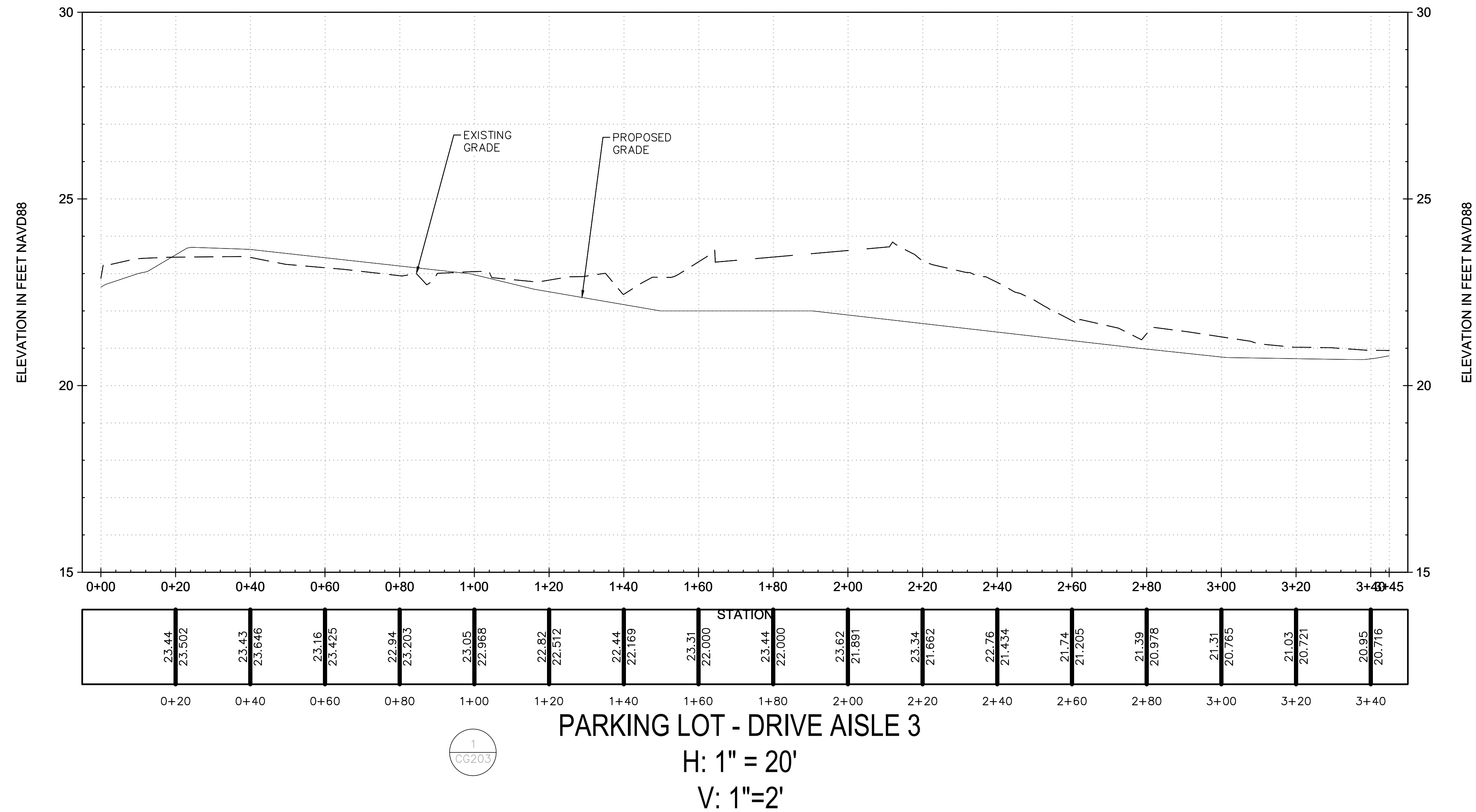
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D

C

B

A

[illegible]

D. RYAN	AUGUST 1, 2026
DRAWN BY: K. K. BACCARO	SUBMISSION NO.:
CHECKED BY: G. HARNISH	CONTRACT NO.:
SUBMITTED BY: T. LAMB	W912QR24D00010 CADD CODE:
SIZE: ANSI D	P2 NO.: 518760
SCALE: As Noted	FISCAL YEAR: FY 26

HDR HDR Architecture, Inc.
1800 American Blvd., Suite 100
Pennington, NJ 08534

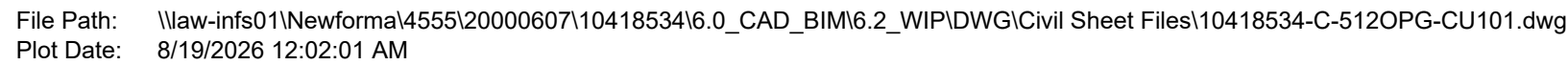
Louisville District
220 West Main Street
Louisville, KY 40202

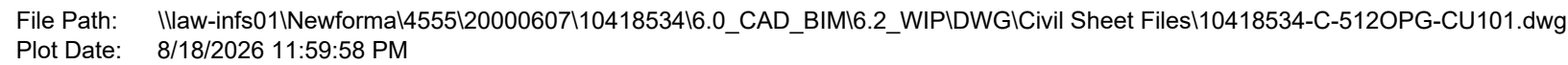
512th Ops Group Facility

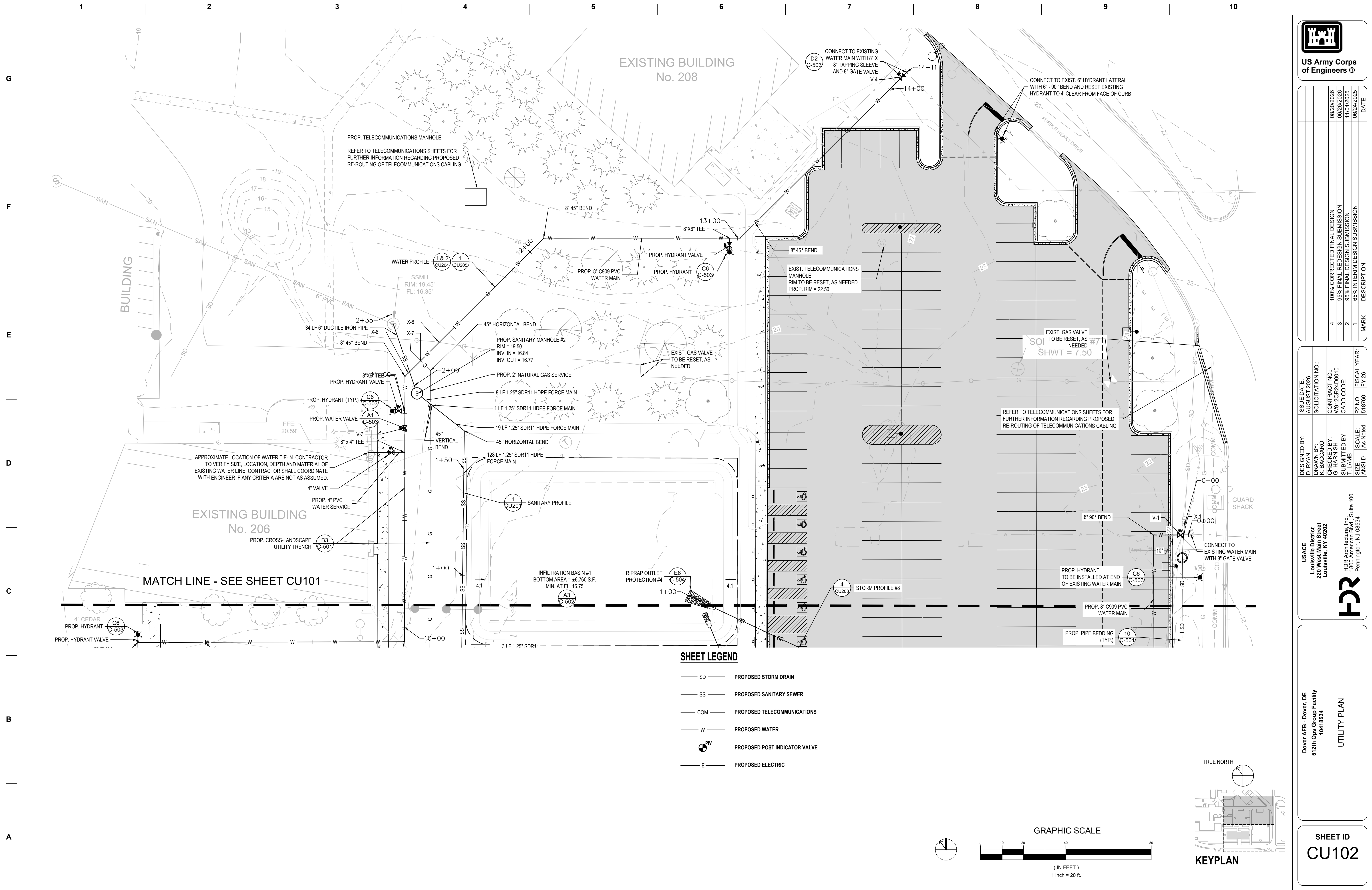
10418534

GRADING PROFILES

SHEET ID
CG203



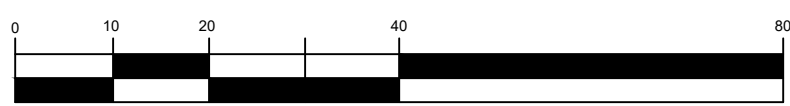




SHEET LEGEND

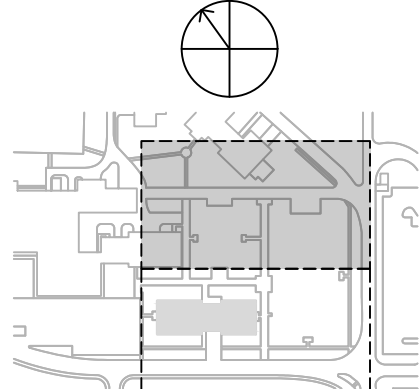
- SD PROPOSED STORM DRAIN
- SS PROPOSED SANITARY SEWER
- COM PROPOSED TELECOMMUNICATIONS
- W PROPOSED WATER
- PIV PROPOSED POST INDICATOR VALVE
- E PROPOSED ELECTRIC

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

TRUE NORTH



KEYPLAN

US Army Corps
of Engineers ®

DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
06/26/2026	95% FINAL REDESIGN SUBMISSION	3
11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

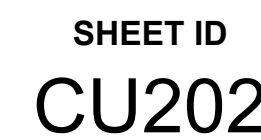
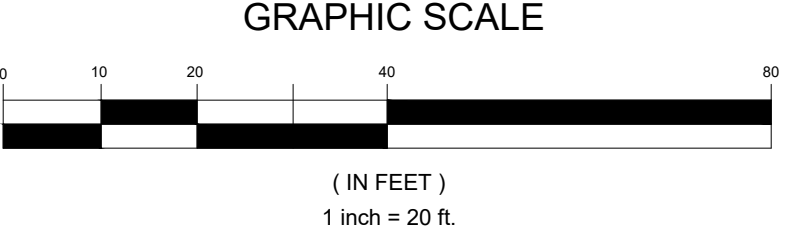
DESIGNED BY: D. RYAN	ISSUE DATE: AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. HARRIS	CONTRACT NO.:
SUBMITTED BY: T. LAMB	CADD CODE:
SCALE: ANSI D As Noted	P2 NO. 518760 FISCAL YEAR: FY 26

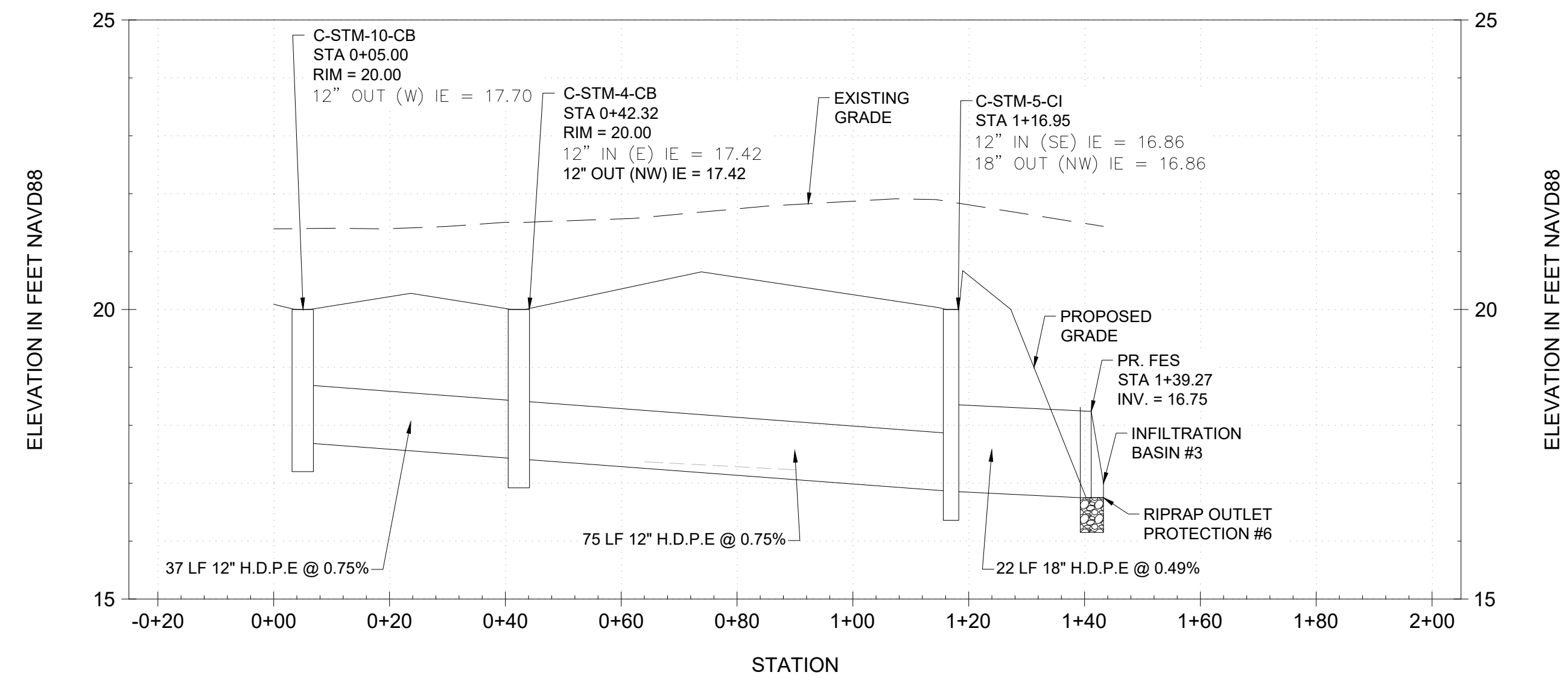
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR Architecture, Inc. Suite 100
1000 Lexington Road
Perrinton, NJ 08654

UTILITY PLAN

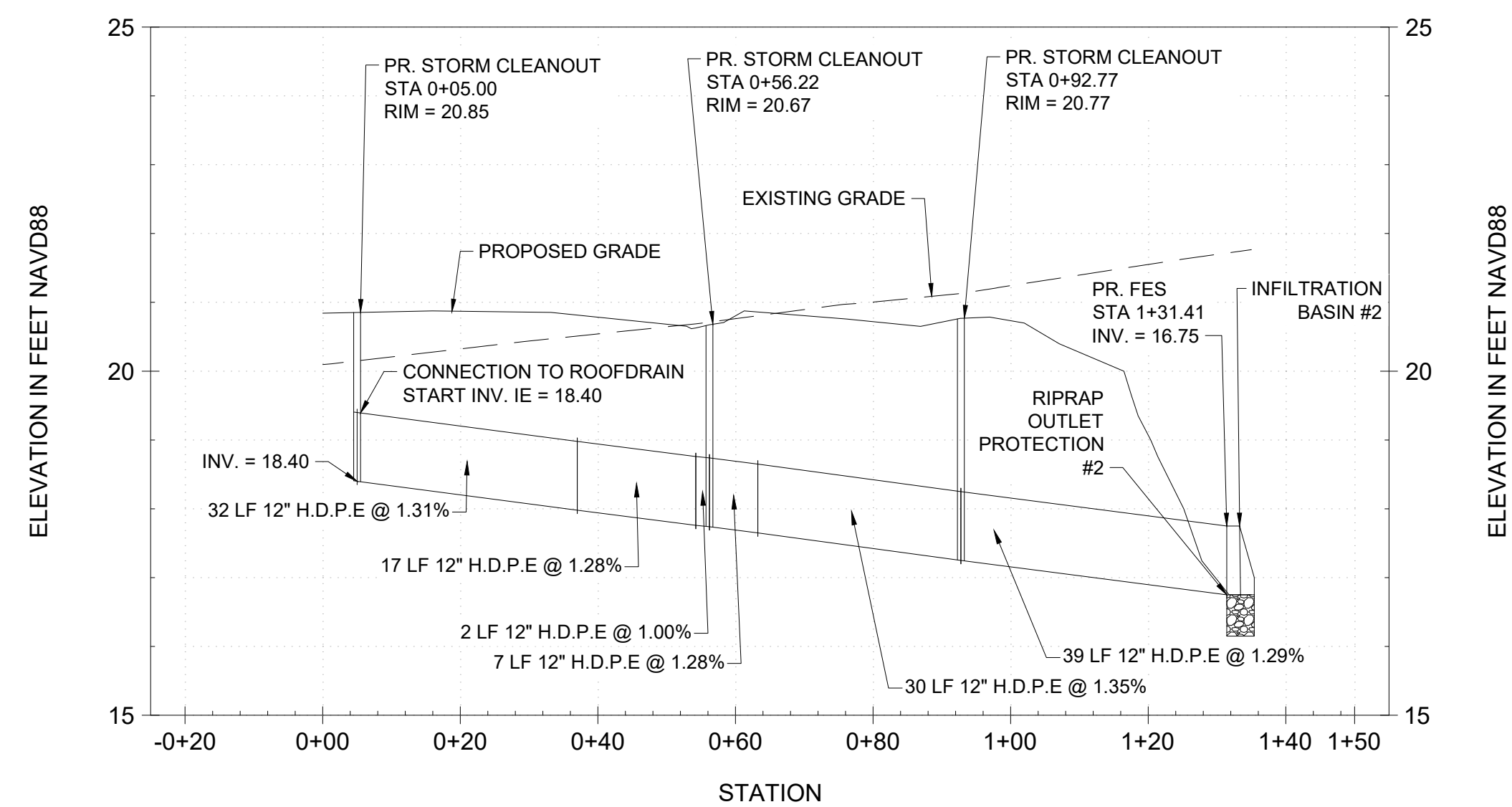
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CU102





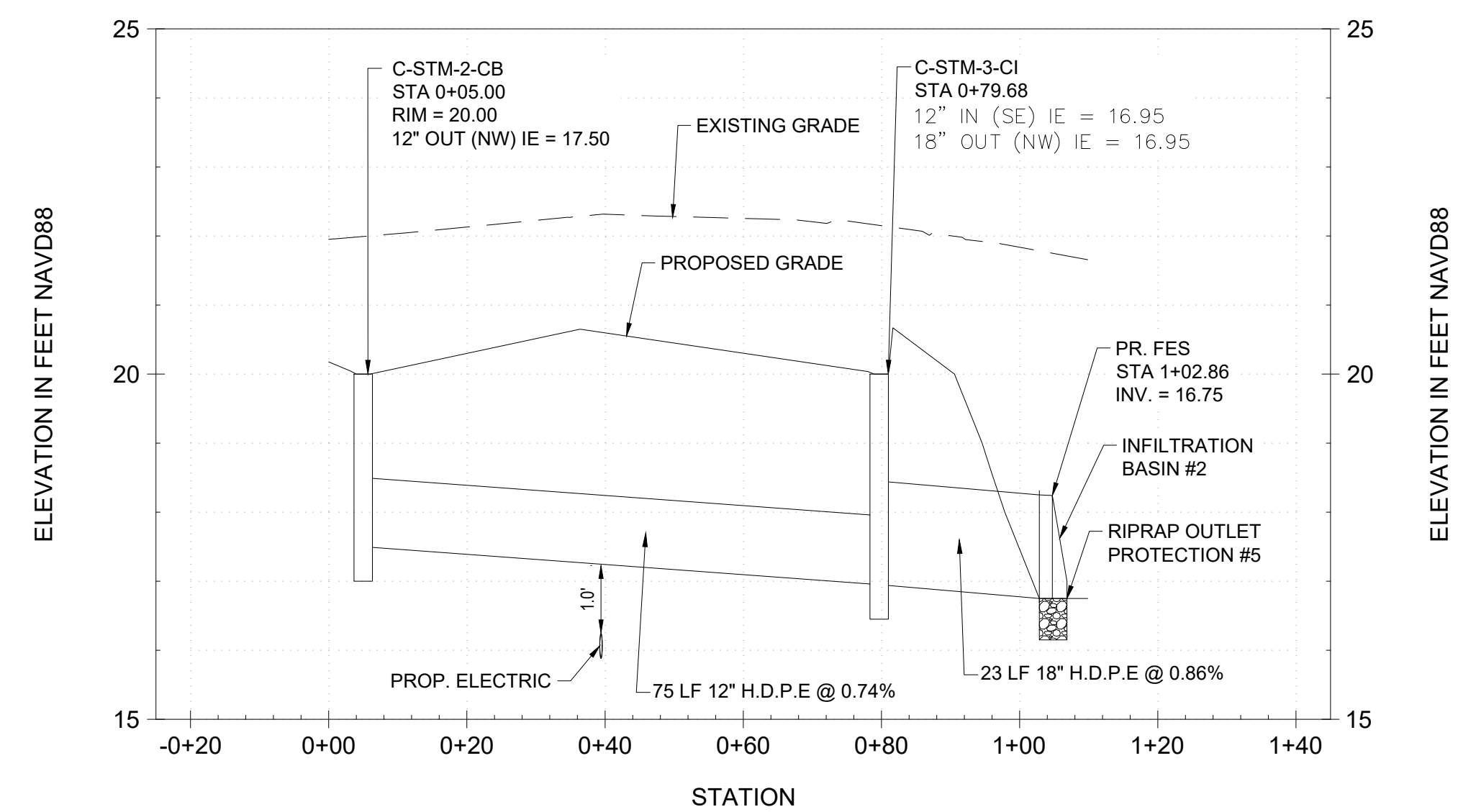
STORM PROFILE #5

H: $1'' = 20'$
V: $1'' = 2'$



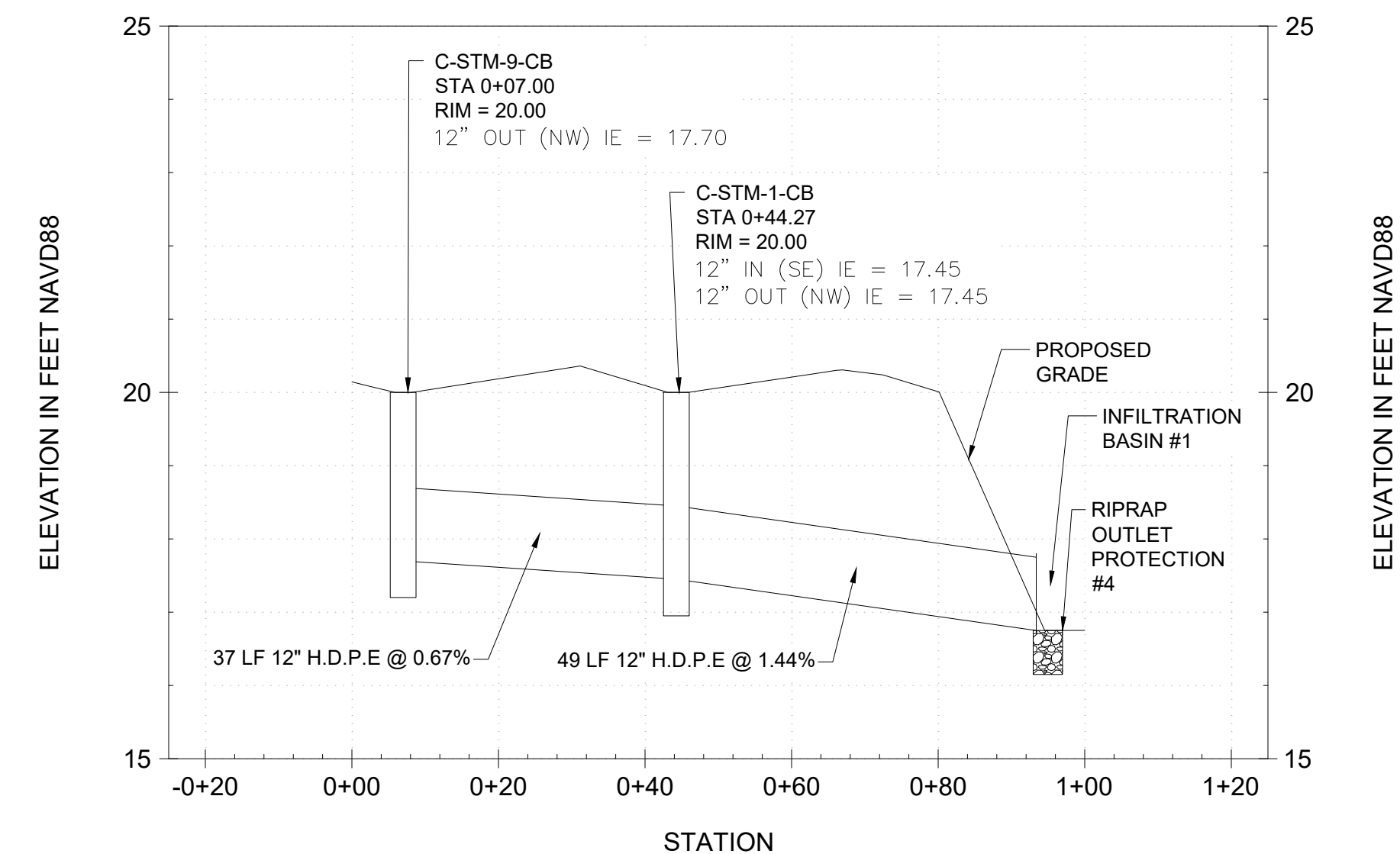
STORM PROFILE #7

H: 1" = 20'
V: 1"=2'



STORM PROFILE #6

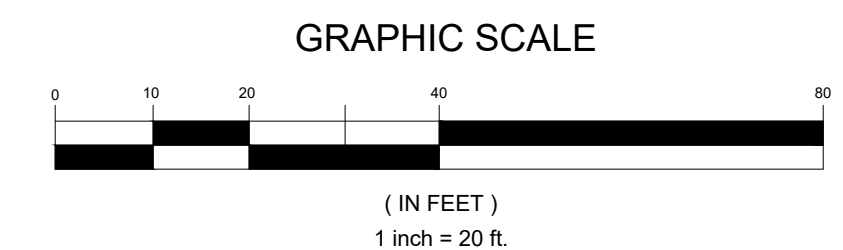
H: 1" = 20'
V: 1"=2'



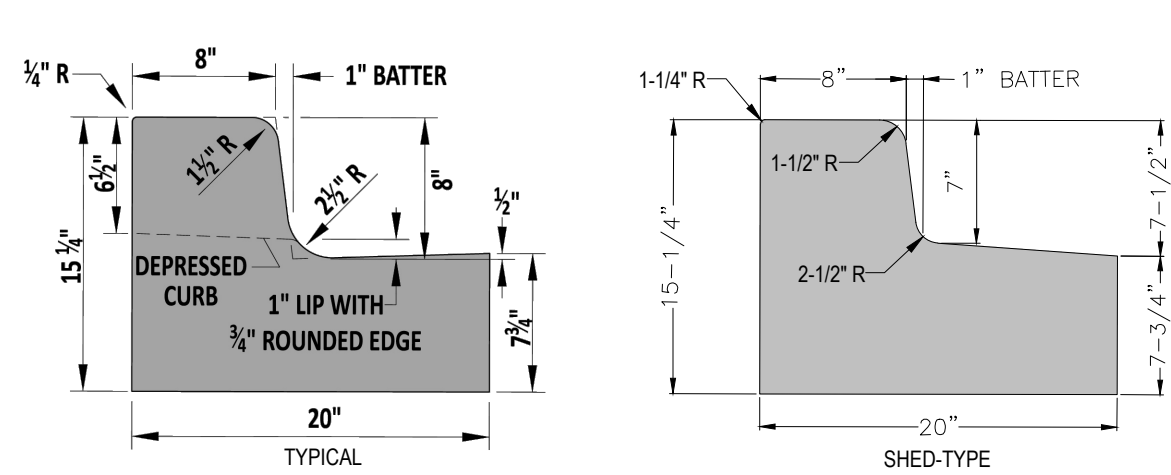
STORM PROFILE #8

H: 1" = 20'

V: 1"=2'



G



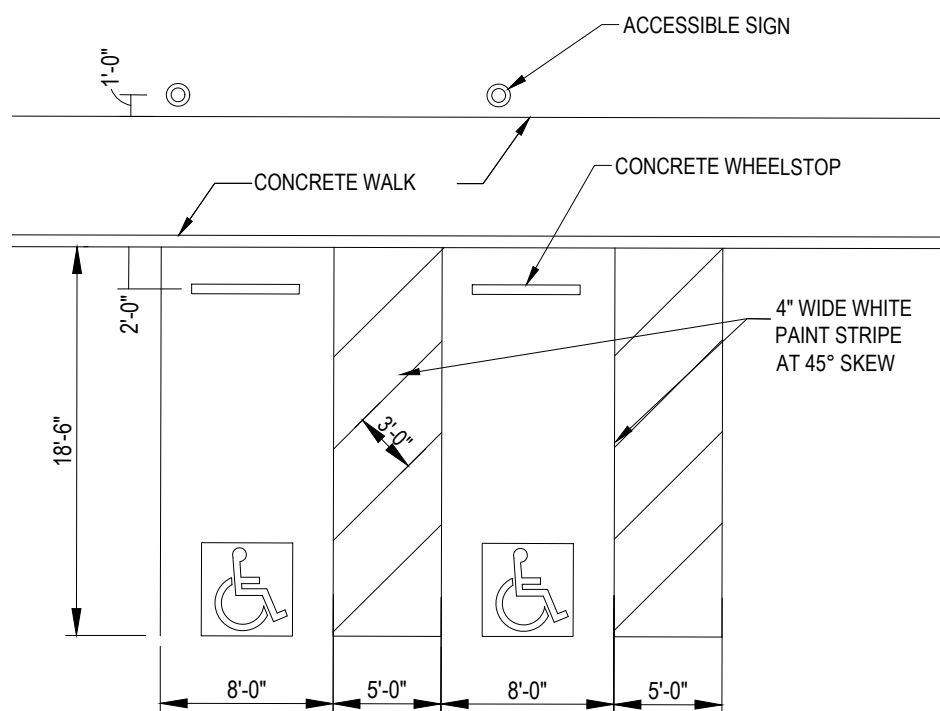
NOTE:
1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S INTEGRAL PCC CURB AND GUTTER DETAIL, STANDARD NO. C-1 (2025).

F1 C-501 CURB & GUTTER DETAIL

NOT TO SCALE

F

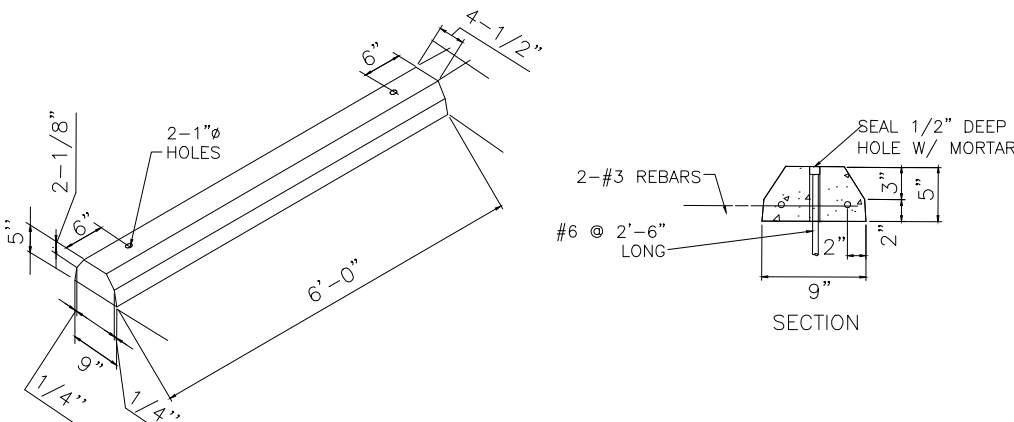
E



D1 C-501 ACCESSIBLE PARKING - MARKINGS

NOT TO SCALE

D



C1 C501 CONCRETE WHEELSTOP DETAIL

NOT TO SCALE

C

B

- PAVEMENT NOTES:
1. THE SUBGRADE IN PAVED AREAS SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC TIRE VEHICLE WITH A LOADED WEIGHT OF AT LEAST 20 TONS. ANY IDENTIFIED UNSTABLE AREAS SHALL BE REPAIRED.
 2. AREAS THAT RUT OR PUMP SHALL BE UNDERCUT TO STABLE SOILS OR AN EVALUATION WILL BE MADE BY THE ENGINEER OR QUALIFIED GEOTECHNICAL FIRM TO DETERMINE IF SOME OTHER METHOD OF SUBGRADE STABILIZATION IS APPROPRIATE.
 3. APPROVED METHODS OF STABILIZATION SHALL INCLUDE LIME STABILIZATION OF HIGH PLASTICITY CLAYS OR EXCESSIVELY WET SOILS, THE USE OF GEOSYNTHETIC OR GEGRID MATERIAL, OR OTHER STABILIZATION METHODS AS APPROVED BY THE ENGINEER OF RECORD (EOR).
 4. A QUALIFIED GEOTECHNICAL FIRM SHALL PROVIDE THE ENGINEER OF RECORD (EOR) WITH THE CBR OR RESILIENT MODULUS OF SUBGRADE PRIOR TO THE IMPORT OF AGGREGATE BASE COURSE. DESIGN MAY BE ADJUSTED BY EOR IN ORDER TO MEET FIELD CONDITIONS.
 5. ROADBED BELOW SHALL BE PROOF-ROLLED AND UNSTABLE AREAS REMOVED. ROADWAY EMBANKMENT MATERIAL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MAX. DRY DENSITY (ASTM 1557).
 6. TACK COAT BETWEEN LIFTS.
 7. PROPER EVALUATION OF SOILS IS REQUIRED BY A QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE IF THE MINIMUM REQUIRED PAVEMENT STRUCTURE IS ACCEPTABLE FOR THE SOILS AND USES PLANNED. REDUCTION IN PAVEMENT STRUCTURE WILL BE ALLOWED PURSUANT TO CBR TESTING OF THE SOILS.
 8. COMPACTION REQUIREMENTS:
(A) ASPHALTIC/BITUMINOUS LAYER - 93% OF MAX. THEORETICAL DENSITY.
(B) AGGREGATE BASE COURSE - 100 MAX. OF DRY DENSITY WITH MODIFIED PROCTOR (ASTM D1557)
(C) SUBGRADE - 100 MAX. OF DRY DENSITY WITH MODIFIED PROCTOR (ASTM D1557)
 9. PAVEMENT DESIGN PER RECOMMENDATIONS IN GEOTECHNICAL REPORT ENTITLED "512TH FACILITY AT DOVER AIR FORCE BASE AIRLIFT WING OPERATIONS GROUP COMPLEX - DOVER, DE - GEOTECHNICAL REPORT" PREPARED BY STV AND DATED 6/6/2025.

A1 C-501 ASPHALT PAVEMENT DETAIL

NOT TO SCALE

A

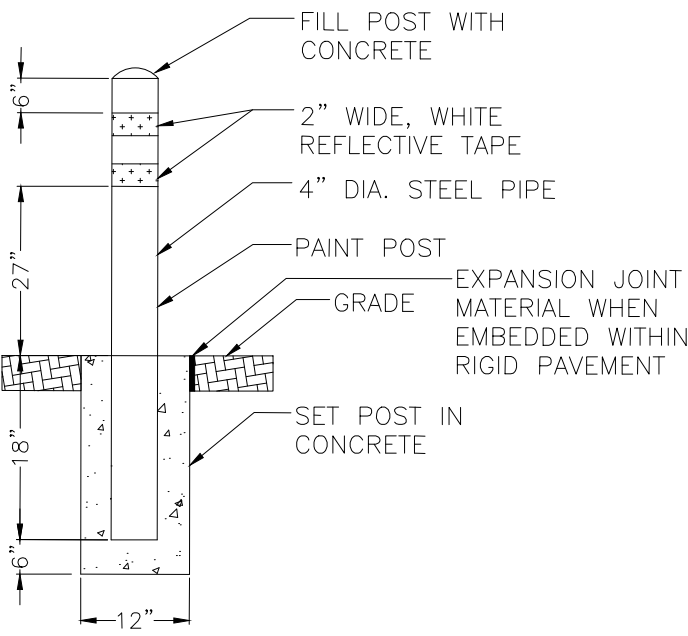
- NOTES:
1. ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN A MAXIMUM OF THREE (3) DAYS FROM THE DATE THE CUT IS MADE. IF CONDITIONS DO NOT PERMIT A PERMANENT REPAIR WITHIN THE GIVEN TIME LIMIT, PERMISSION TO MAKE A TEMPORARY REPAIR MUST BE OBTAINED FROM THE CONTRACTING OFFICER.
 2. IN ALL OPEN TRENCHES, BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPACTION REQUIREMENTS BY SOILS TESTING CERTIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER.
 3. BACKFILL WITH A HIGH CLAY CONTENT, HIGH SHRINK-SWELL POTENTIAL, OR HIGH MOISTURE CONTENT THAT CANNOT MEET COMPACTION REQUIREMENTS SHALL BE DEEMED UNSUITABLE AND SHALL BE REPLACED WITH SUITABLE BACKFILL MATERIAL.
 4. ALL PAVEMENT PATCHES SHALL PROVIDE A UNIFORM AND SMOOTH DRIVING SURFACE.

A3 C-501 CROSS-LANDSCAPE UTILITY TRENCH DETAIL

NOT TO SCALE

A3

C-501



F3 C-501 BOLLARD DETAIL

NOT TO SCALE

F3

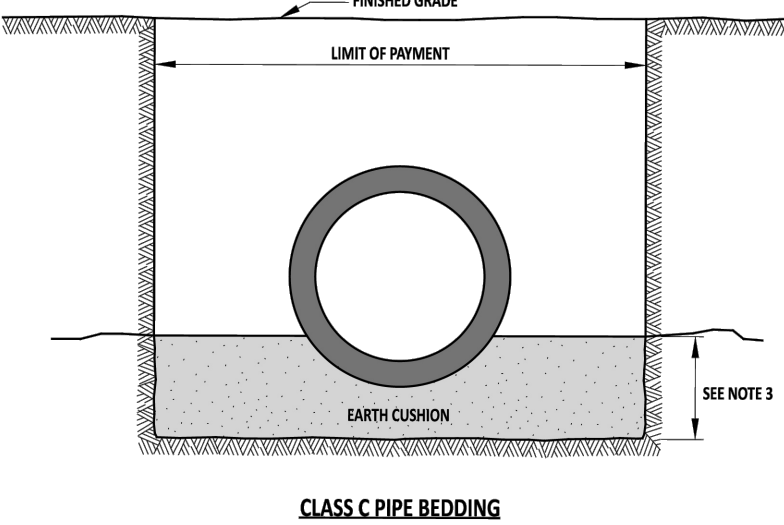
C-501

F5 C-501 PARKING SPACES STRIPING DETAIL

NOT TO SCALE

F5

C-501



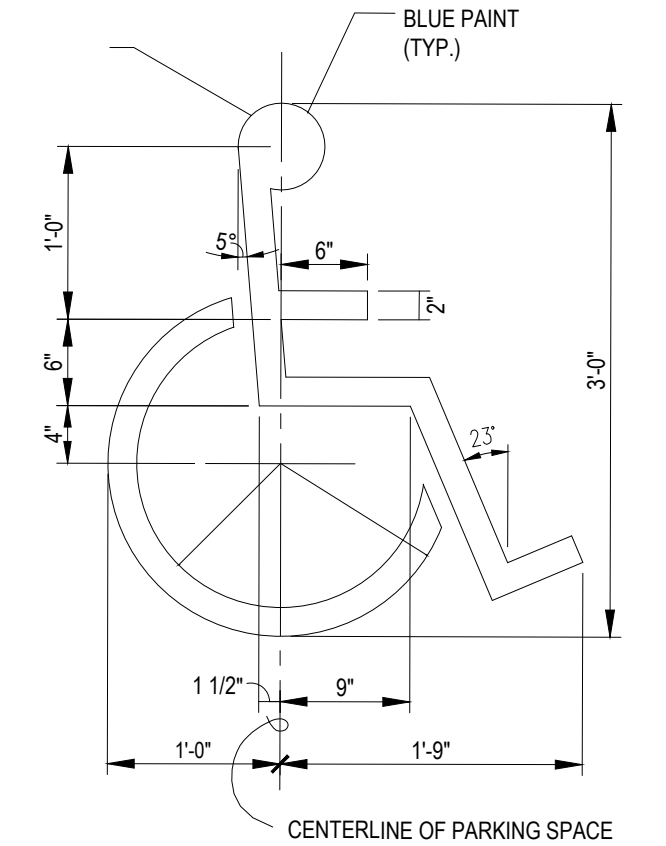
- NOTE:
1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S PIPE BEDDING AND PIPE FLARED END SUPPORT DETAIL, STANDARD NO. D-8 (2021).

D5 C-501 PIPE BEDDING DETAIL

NOT TO SCALE

D5

C-501

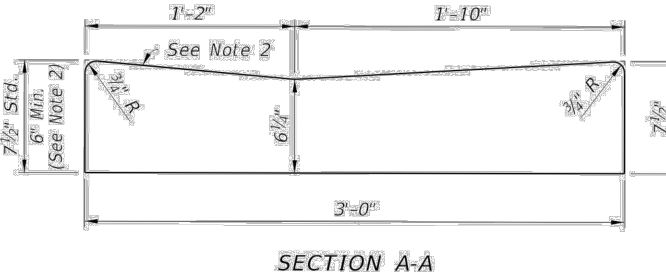


B5 C-501 ACCESSIBLE SYMBOL

NOT TO SCALE

B5

C-501



A5 C-501 VALLEY GUTTER DETAIL

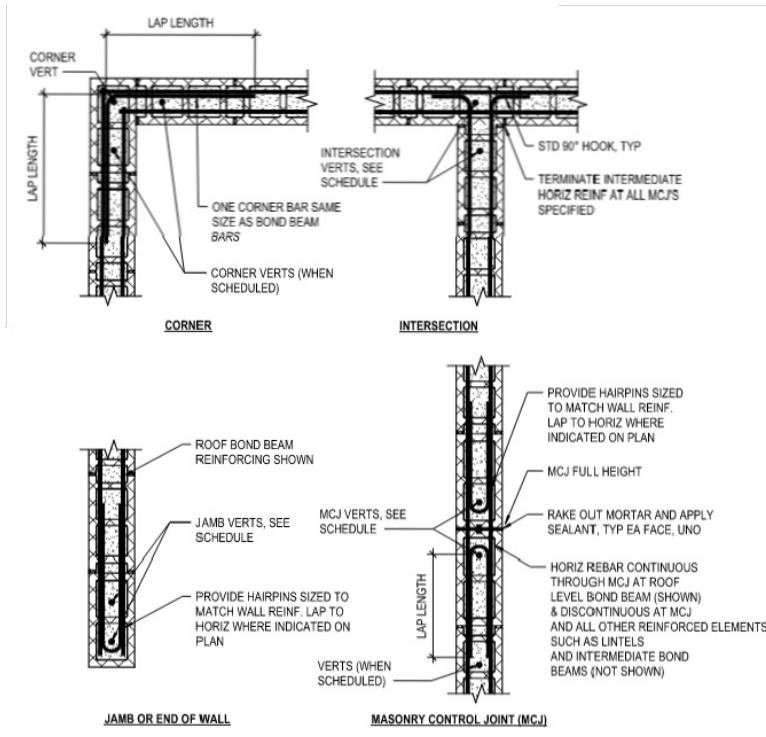
NOT TO SCALE

A5

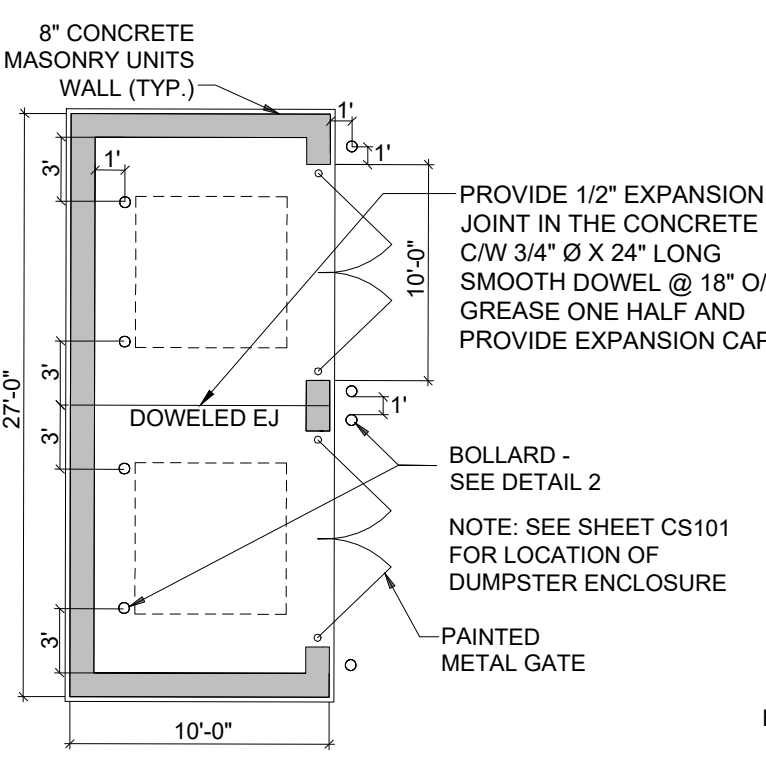
C-501

6

- GENERAL NOTES:
1. DUMPSTER ENCLOSURE (CMU WALLS AND STEEL GATES) TO BE CONSTRUCTED IN ACCORDANCE WITH DOVER AIR FORCE BASE INSTALLATION FACILITIES STANDARDS (IFS) AND UNITED FACILITIES GUIDE SPECIFICATIONS (UFGS) SECTION 04 20 00 UNIT MASONRY.
A. CMU WALLS
i. COLOR = RED BRICK BLEND
ii. FINISH = FACE BRICK, FOR BRICK VENEER FOR CMU WALLS, REFER TO SPECIFICATION 04 20 00
B. STEEL GATES
i. COLOR = DARK BROWN
ii. FINISH = POWDER COATED
2. DUMPSTERS TO BE PAINTED DARK BROWN.



- WALL REINFORCEMENT NOTES:
1. FOR REINFORCING, SEE CMU WALL TYPICAL CMU WALL REINFT DETAIL #D8 C-501.
 2. LOCATION OF VERTICAL BARS INDICATED AT CENTERLINE OF WALLS, UNLESS NOTED OTHERWISE IN SCHEDULE.
 3. EXTEND MASONRY CONTROL JOINT (MCJ) FULL HEIGHT OF MASONRY BOND BEAM.
 4. HORIZONTAL JOINT REINFORCING NOT SHOWN.
 5. MODIFY BAR CONFIGURATION SHOWN AS REQUIRED WHERE TWO VERTICAL REINFORCING BARS ARE SHOWN ON THE SCHEDULE.

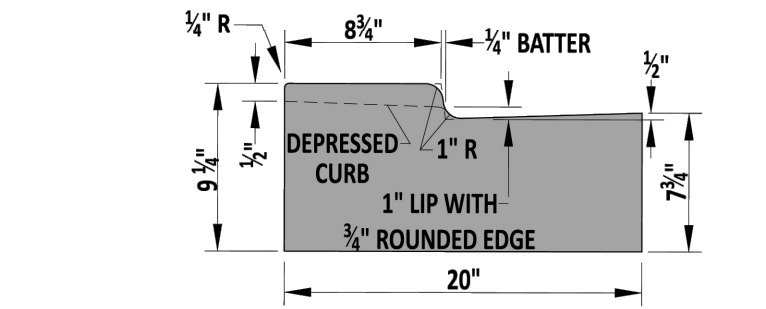


C6 C-501 DUMPSTER ENCLOSURE DETAIL

NOT TO SCALE

C6

C-501



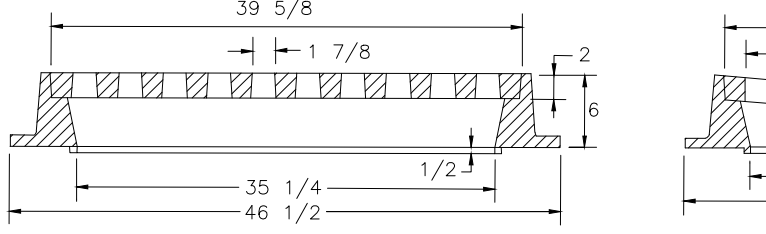
- NOTE:
1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S INTEGRAL PCC CURB AND GUTTER DETAIL, STANDARD NO. C-1 (2025).

B6 C-501 2" CURB & GUTTER DETAIL

NOT TO SCALE

B6

C-501



- NOTES:
1. REGARDING INLET GRATE AND FRAME SIZING, CONTRACTOR SHALL FIELD VERIFY THE SIZE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH DESIGN DOCUMENTS.

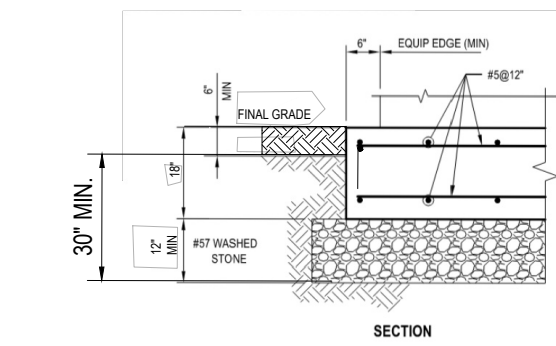
A6 C-501 VALLEY GUTTER INLET DETAIL

NOT TO SCALE

A6

C-501

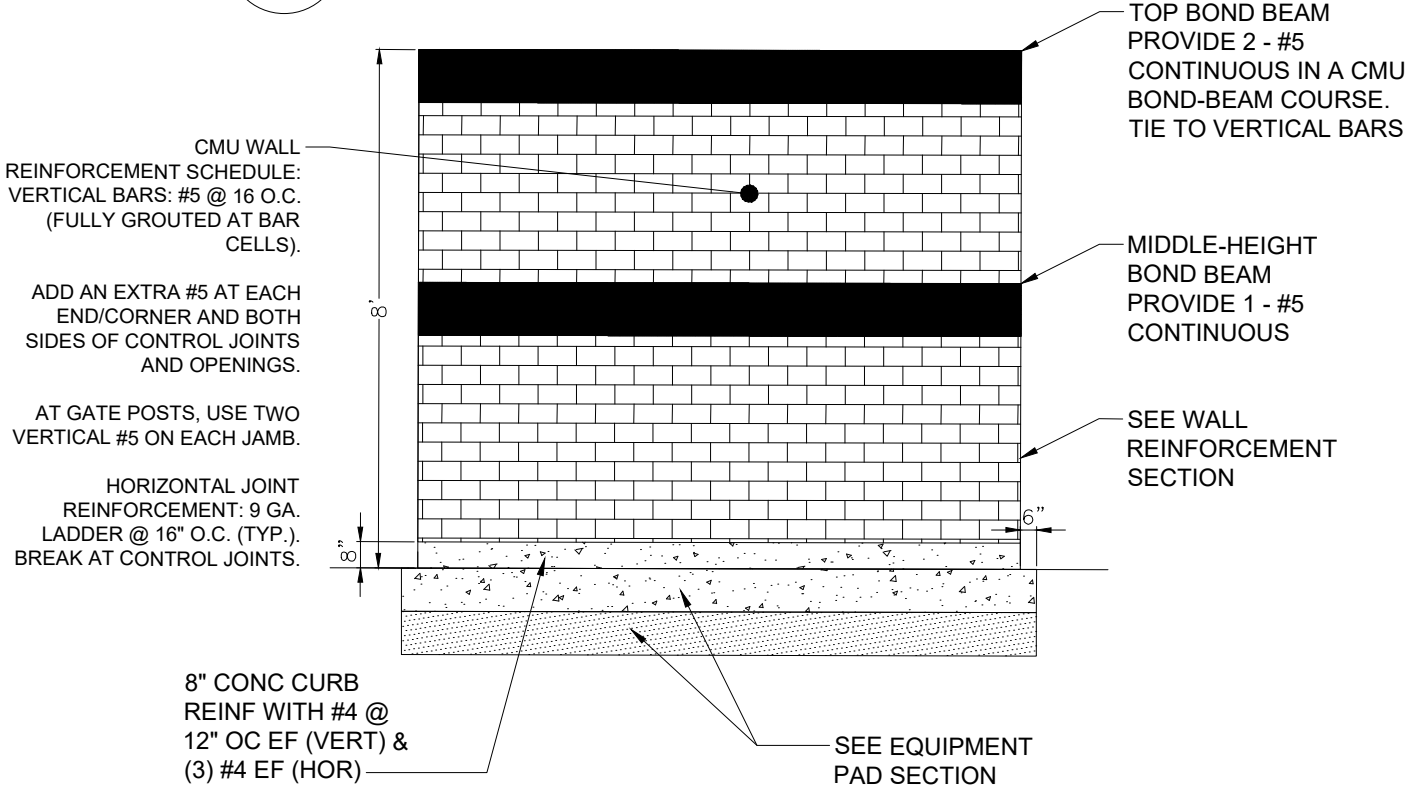
8



- EQUIPMENT PAD NOTES:
1. SEE SHEET CS101 FOR SIZE, LOCATION, AND ORIENTATION OF PADS.
 2. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
 3. PROVIDE 1" EXPANSION JOINT (UNLESS NOTED OTHERWISE) AGAINST OTHER STRUCTURES/CONCRETE.
 4. SLOPE FOR DRAINAGE.
 5. BROOM FINISH UNLESS NOTED OTHERWISE.
 6. CONCRETE SPEC:
(A) EXPOSURE CLASS: F3 AND/OR C1
(B) CONCRETE STRENGTH AT 28 DAYS (FC): 4,500 PSI
(C) CONCRETE COVER FOR REINFORCING REBARS: 3"

F8 C-501 DUMPSTER PAD REINFORCEMENT DETAIL

NOT TO SCALE

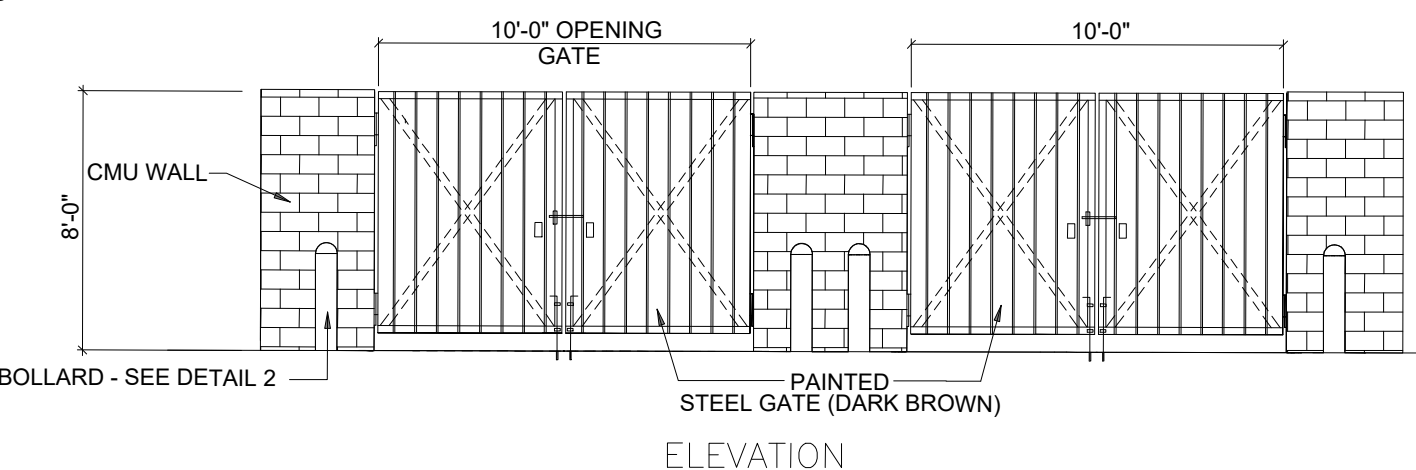


D8 C-501 DUMPSTER PAD CMU WALL DETAIL

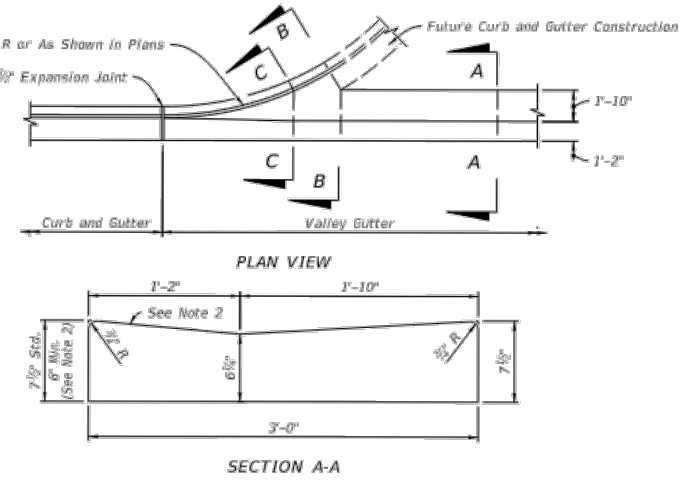
NOT TO SCALE

D8

C-501



ELEVATION



NOT TO SCALE

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

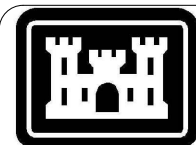
SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z



US Army Corps
of Engineers ®

DATE	DESCRIPTION	MARK
08/20/2026	100% CORRECTED FINAL DESIGN	4
06/26/2026	95% FINAL REDESIGN SUBMISSION	3
11/04/2025	95% FINAL DESIGN SUBMISSION	2
06/24/2025	65% INTERIM DESIGN SUBMISSION	1

DESIGNED BY:	ISSUE DATE:
D. RYAN	AUGUST 2026
DRAWN BY:	SOLICITATION NO.:
K. BACCARO	
CHECKED BY:	CONTRACT NO.:
G. HARNISH	W912QR24D0010
SUBMITTED BY:	CADD CODE:
T. LAMB	
SIZE:	SCALE:
ANSI D	As Noted
	P2 NO.:
	518760
	FISCAL YEAR:
	FY 26

USACE	USACE
Louisville District	Louisville District
220 West Main Street	220 West Main Street
Louisville, KY 40202	Louisville, KY 40202
HDR Architecture, Inc.	HDR Architecture, Inc.
512th Ops Group Facility	512th Ops Group Facility
10415534	10415534
Pennington, NJ 08534	Pennington, NJ 08534

SITE DETAILS
DOVER AIR FORCE BASE
512TH OPS GROUP FACILITY
10415534

SHEET ID
C-501

G

F

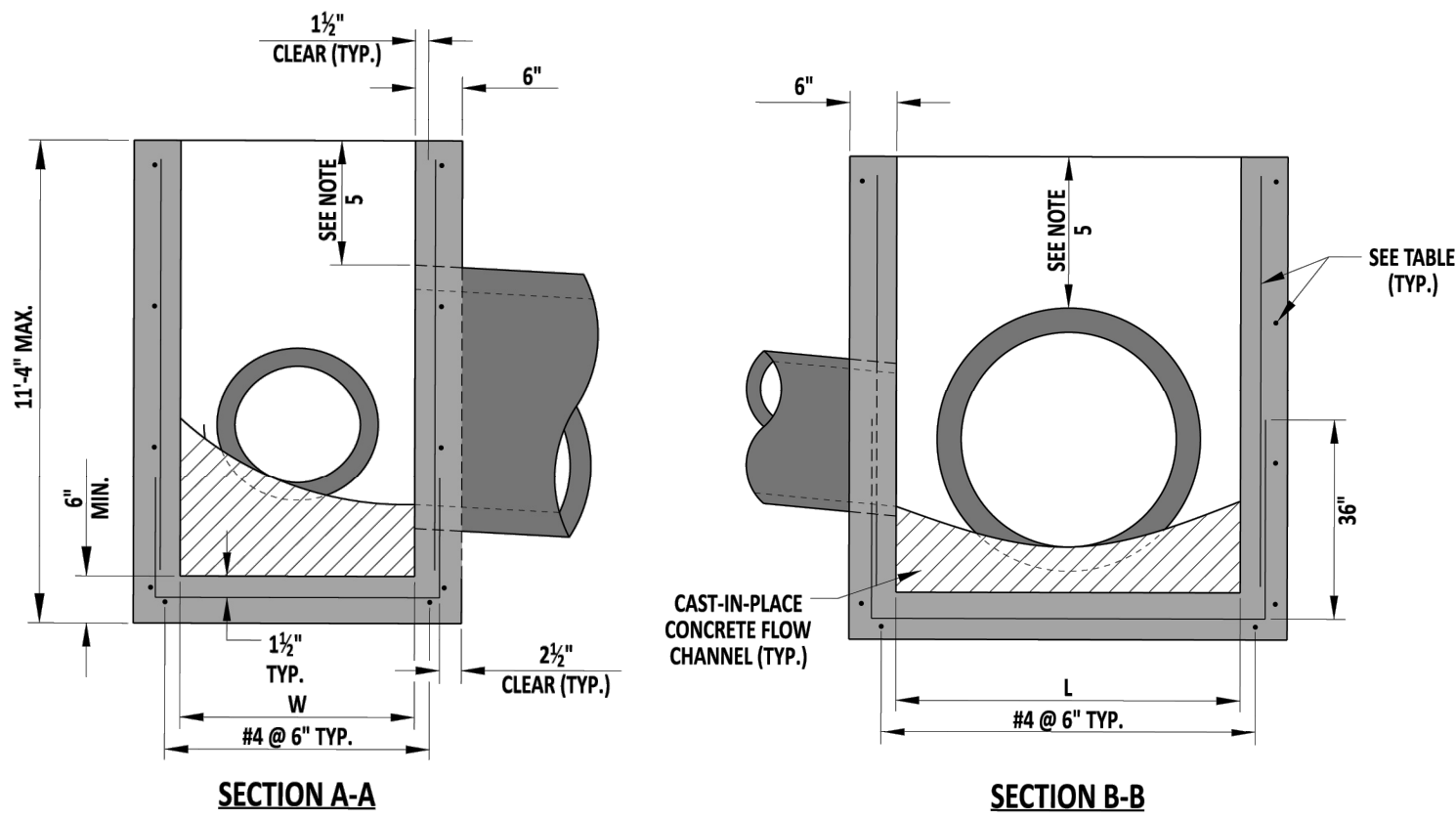
E

D

C

B

A



NOTES:

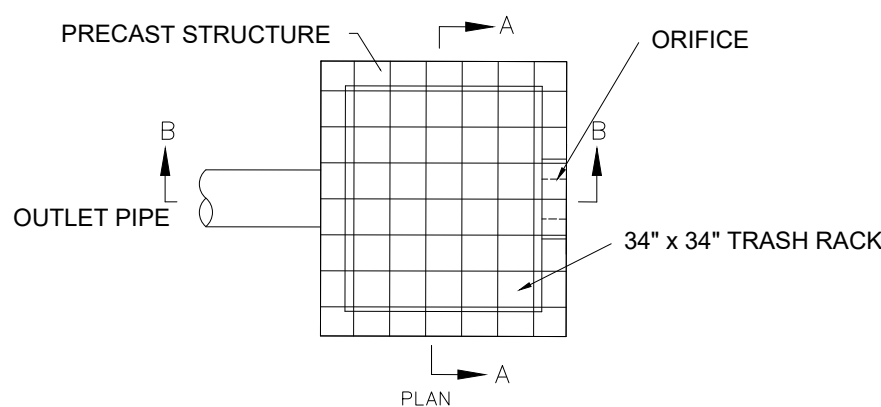
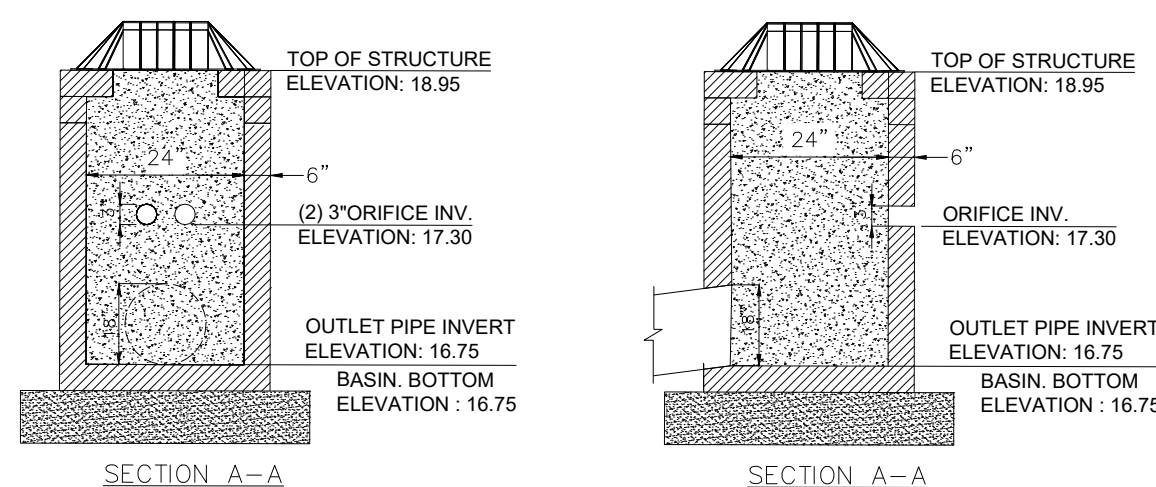
1. PROVIDE AND INSTALL INLET BOXES IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR THE STATE OF DELAWARE.
2. DO NOT INSTALL PIPES THROUGH ANY CORNER OF THE INLET BOX.
3. RISER SECTIONS MAY BE USED FOR DEEP INLET BOXES.
4. PIPES MAY BE INSTALLED NEAR OR THROUGH JOINTS FOR RISER SECTIONS.
5. WHEN THE COVER ABOVE THE PIPE IS LESS THAN 4" TO THE COVER SLAB OR TOP UNIT OPENING, THE PORTION OF BOX WALL ABOVE THE PIPE MAY BE REMOVED AS SHOWN IN THE OPTIONAL PIPE OPENING DETAIL. FORM AND FILL THE AREA ABOVE THE PIPE WITH HIGH-STRENGTH, NON-SHRINK GROUT MIXED WITH COARSE AGGREGATE IN A 1:1 RATIO BY WEIGHT.
6. WHEN INLET BOX IS PRECAST, PROVIDE A PIPE OPENING DIAMETER BETWEEN 3" AND 4" LARGER THAN OUTSIDE DIAMETER OF PIPE.
7. USE 4" X 4", W4 X W4 WELDED WIRE AS REINFORCEMENT FOR LAWN INLET BOXES.

NOTE:

1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S INLET BOX DETAIL, STANDARD NO. D-4 (2024).

E1
C-502
INLET DETAIL

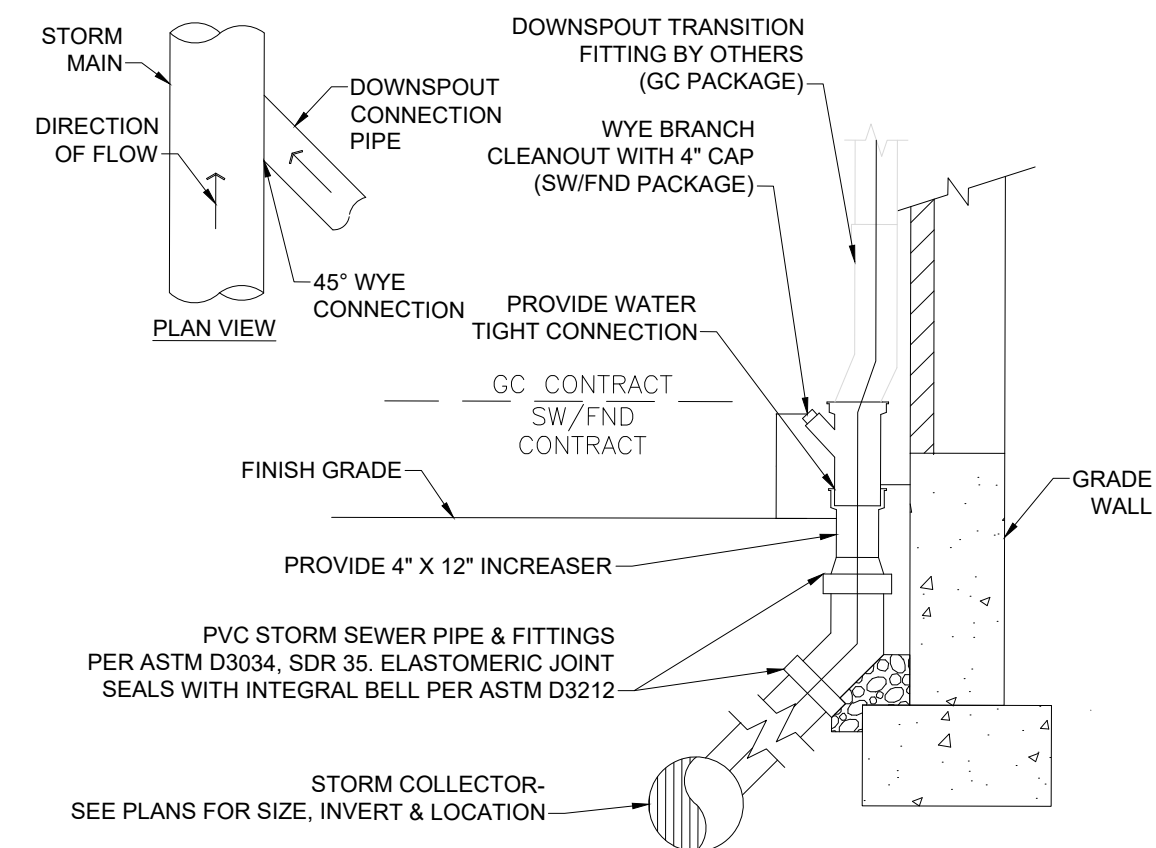
NOT TO SCALE



NOTE: CONCRETE BOX STRUCTURE OF OUTLET CONTROL STRUCTURE BASED ON INLET DETAIL, SHEET C-502

C1
C-502
OUTLET CONTROL STRUCTURE #1 DETAIL

NOT TO SCALE



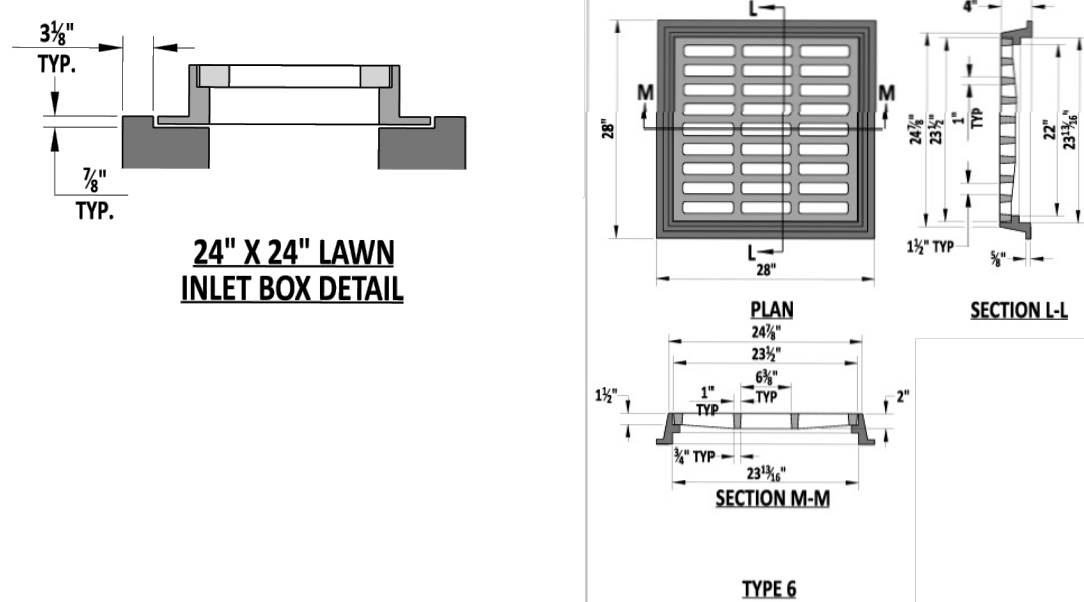
- NOTES:
1. CONTRACTOR TO INSTALL DOWNSPOUTS AS DIMENSIONED IN THIS PLAN SET.
 2. STORM SEWER CONNECTIONS NOT IN STRUCTURES SHALL BE WYE CONNECTIONS WITH STANDARD FITTINGS
 3. FOR MORE INFORMATION, REFER TO ARCHITECTURE AND PLUMBING PLANS.

A1
C-502
ROOF DOWNSPOUT DETAIL

NOT TO SCALE

INLET BOX SCHEDULE		
L	W	FABRICATION TOLERANCE
17 1/2"	11 1/2"	+1"
24"	24"	+1"
34"	18"	-1"
34"	24"	-1"
48"	30"	+6"
48"	48"	+6"
66"	30"	+6"
66"	48"	+6"
66"	66"	+6"
72"	24"	-1"
72"	48"	-1"
72"	72"	-1"

- * - THESE SIZES ARE TO BE USED FOR LAWN INLETS AND ARE NOT INTENDED TO BE USED IN THE TRAVELWAY. THE MAX DEPTH FOR THESE INLETS IS 4". SEE NOTE 7 FOR REINFORCEMENT.
- ** - MAX DEPTH IS 4" FOR THIS DRAINAGE INLET.

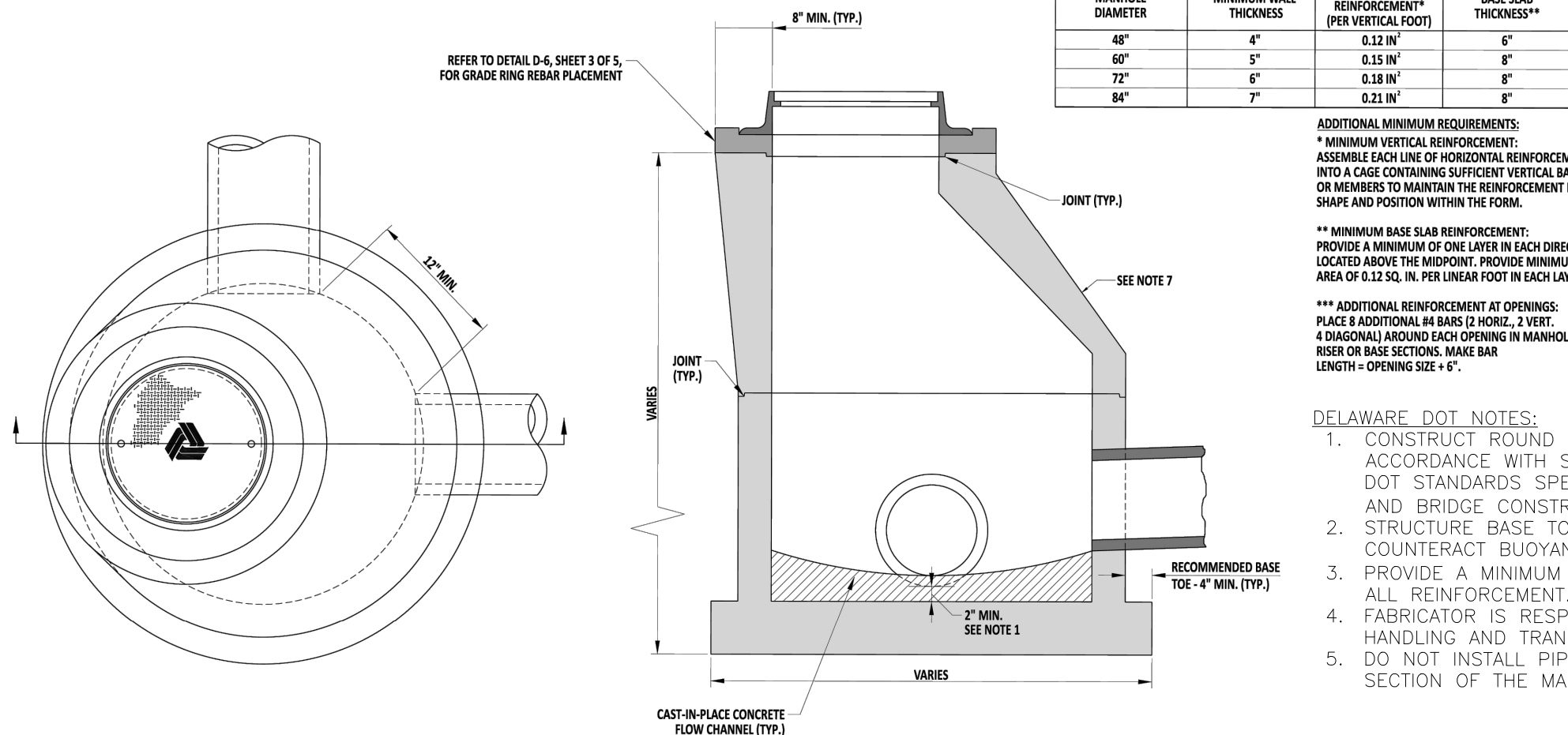


NOTES:

1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S ROUND MANHOLE ASSEMBLY DETAIL, STANDARD NO. D-6 (2025).

E5
C-502
CONCRETE MANHOLE DETAIL

NOT TO SCALE



MINIMUM PRECAST ROUND MANHOLE REQUIREMENTS			
MANHOLE DIAMETER	MINIMUM WALL THICKNESS	CIRCUMFERENTIAL REINFORCEMENT (PER VERTICAL FOOT)	BASE SLAB THICKNESS**
48"	4"	0.22 IN"	6"
60"	5"	0.15 IN"	8"
72"	6"	0.18 IN"	8"
84"	7"	0.21 IN"	8"

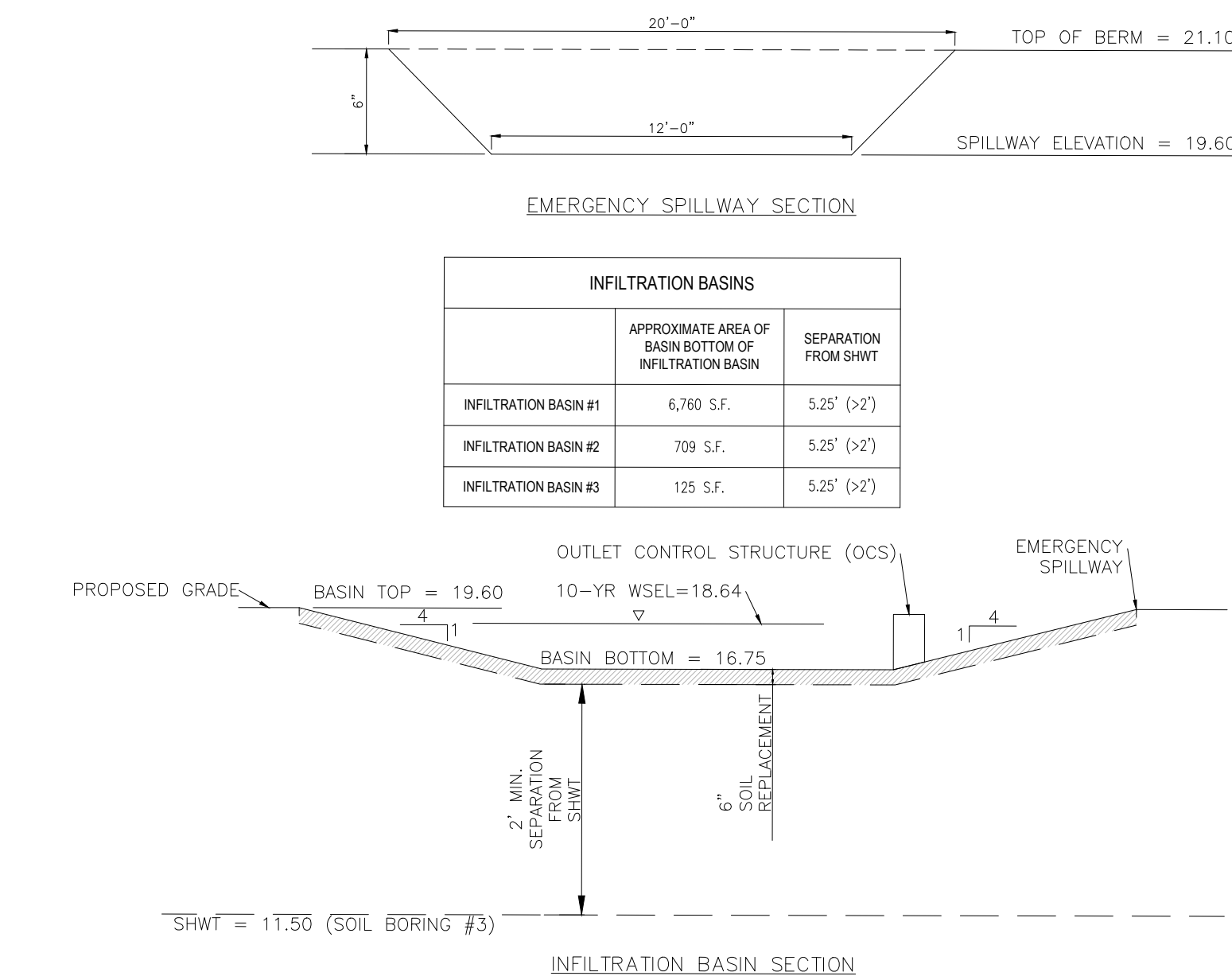
ADDITIONAL MINIMUM REQUIREMENTS:
* MINIMUM VERTICAL REINFORCEMENT: ASSEMBLE EACH LINE OF HORIZONTAL REINFORCEMENT INTO A CAGE CONTAINING SUFFICIENT VERTICAL BARS OR MEMBERS TO MAINTAIN THE REINFORCEMENT IN SHAPE AND POSITION WITHIN THE FORM.

** MINIMUM BASE SLAB REINFORCEMENT: PROVIDE A MINIMUM OF ONE LAYER IN EACH DIRECTION, LOCATED ABOVE THE MIDPOINT. PROVIDE MINIMUM AREA OF 0.12 SQ. IN. PER LINEAR FOOT IN EACH LAYER.

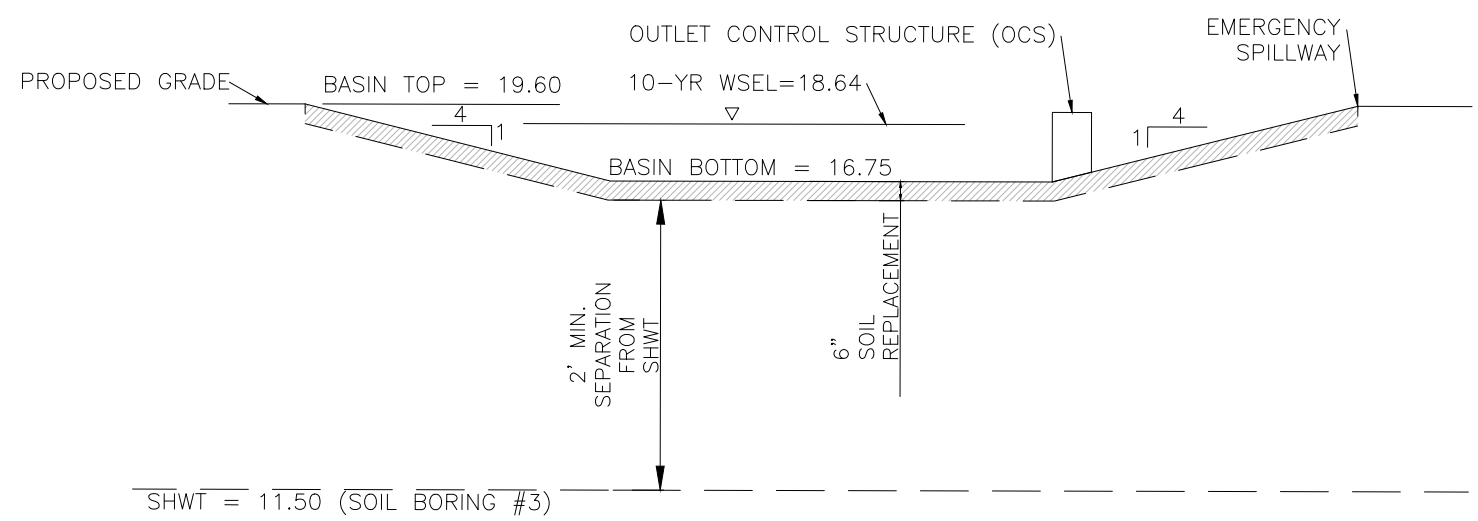
*** ADDITIONAL REINFORCEMENT AT OPENINGS: PLACE 8 ADDITIONAL #4 BARS (2 HORIZ., 2 VERT., 4 DIAGONAL) AROUND EACH OPENING IN MANHOLE RISER OR BASE SECTION. MAKE BAR LENGTH = OPENING SIZE + 6".

DELAWARE DOT NOTES:

1. CONSTRUCT ROUND MANHOLES IN ACCORDANCE WITH SECTION 602 OF DELAWARE DOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2025).
2. STRUCTURE BASE TOE IS RECOMMENDED TO COUNTERACT BUOYANCY.
3. PROVIDE A MINIMUM COVER OF 1'-1/2" FOR ALL REINFORCEMENT.
4. FABRICATOR IS RESPONSIBLE FOR LIFTING, HANDLING AND TRANSPORTATION STRESSES.
5. DO NOT INSTALL PIPES IN THE CONICAL SECTION OF THE MANHOLE ASSEMBLY.



INFILTRATION BASINS		
	APPROXIMATE AREA OF BASIN BOTTOM OF INFILTRATION BASIN	SEPARATION FROM SHWT
INFILTRATION BASIN #1	6,760 S.F.	5.25' (>2')
INFILTRATION BASIN #2	709 S.F.	5.25' (>2')
INFILTRATION BASIN #3	125 S.F.	5.25' (>2')

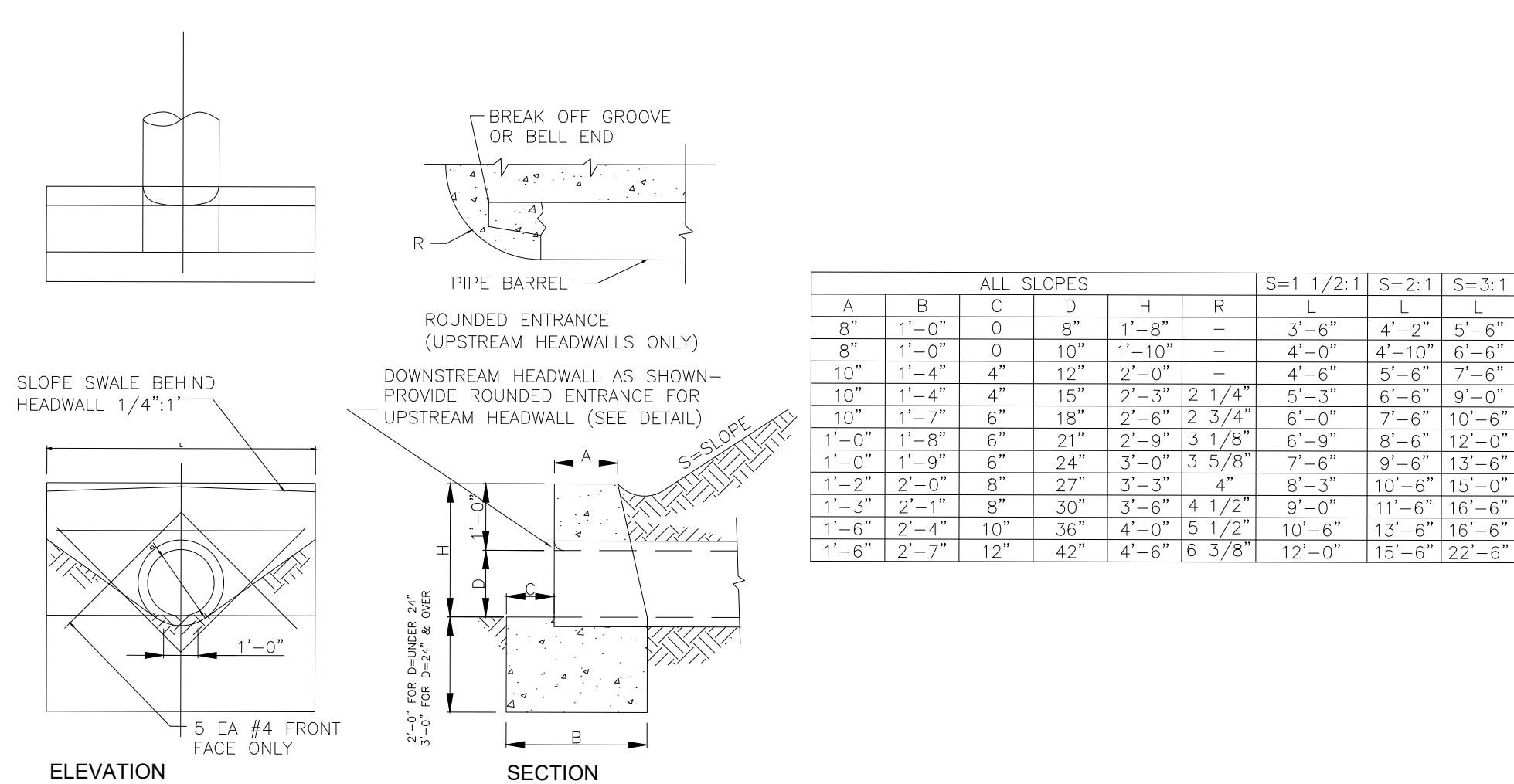


NOTES:

1. AVOID COMPACTION BY PREVENTING CONSTRUCTION EQUIPMENT AND VEHICLES FROM TRAVELING OVER THE PROPOSED LOCATION OF THE INFILTRATION PRACTICE AND SCARIFYING THE SOILS FOR THE BASIN BOTTOM.
2. FOR SOIL REPLACEMENT, PROPOSED SOILS SHALL BE FROM HYDROLOGIC SOILS GROUPS 'A' OR 'B'.
3. THE INFILTRATE RATE AND SEPARATION FROM GROUNDWATER OF THE CONSTRUCTED INFILTRATION PRACTICE SHALL BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION. A MINIMUM INFILTRATION RATE OF 0.75 IN/HR AND A MINIMUM 2'-FOOT SEPARATION FROM GROUNDWATER ARE REQUIRED. PROVIDE THE RESULTS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMPLETING INSTALLATION OF THE INFILTRATION BMP.
4. FOR MAINTENANCE INFORMATION, REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
5. INFILTRATION BMP WILL BE PREPARED AFTER AREA IS USED FOR TEMPORARY SEDIMENT BASIN. ANY ACCUMULATED SEDIMENT IN THE INFILTRATION BMP MUST BE REMOVED IN A MANNER THAT PREVENTS COMPACTION OF THE BOTTOM OF THE EXCAVATION. TO PROVIDE A WELL-AERATED, HIGHLY POROUS SURFACE, THE SOILS BELOW AN INFILTRATION PRACTICE MUST BE LOOSENEED TO A MINIMUM DEPTH OF 18 INCHES PRIOR TO INSTALLATION.
6. AFTER INITIAL EXCAVATION AND ROUGH GRADING, PROVIDE A MINIMUM OF ONE DOUBLE RING INFILTRMETER TEST WITHIN THE INFILTRATION AREA AT THE BOTTOM ELEVATION OF THE EXCAVATION. PROVIDE THE RESULTS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMPLETING INSTALLATION OF THE UNDERGROUND SYSTEM.
7. IF NATIVE SUBGRADE SOILS AT THE BOTTOM OF THE PROPOSED INFILTRATION AREA ARE DETERMINED TO NOT BE CONDUCTIVE TO THE DESIGN INFILTRATION REQUIREMENTS, REMOVE AND REPLACE THE POORLY INFILTRATION SOILS TO A DEPTH WHERE THE EXISTING NATIVE SUBGRADE SOILS MEET OR EXCEED THE DESIGN INFILTRATION REQUIREMENTS AS REVIEWED BY THE ENGINEER.
8. FINAL EXCAVATION OF THE INFILTRATION AREA AND INSTALLATION OF ANY ENGINEERED SOIL MUST OCCUR IN DRY CONDITIONS TO PREVENT SMEARING AND COMPACTION.
9. REMOVE ANY EXCESS SOILS THAT ENTER THE INFILTRATION AREA PRIOR TO FINAL STABILIZATION.
10. UPON COMPLETION OF THE INFILTRATION SYSTEM INSTALLATION AND FINAL STABILIZATION OF THE TRIBUTARY AREA, PROVIDE DOCUMENTATION THAT THE BMP DRAINS DOWN WITHIN 48 HOURS.

A3
C-502
INFILTRATION BASIN DETAIL

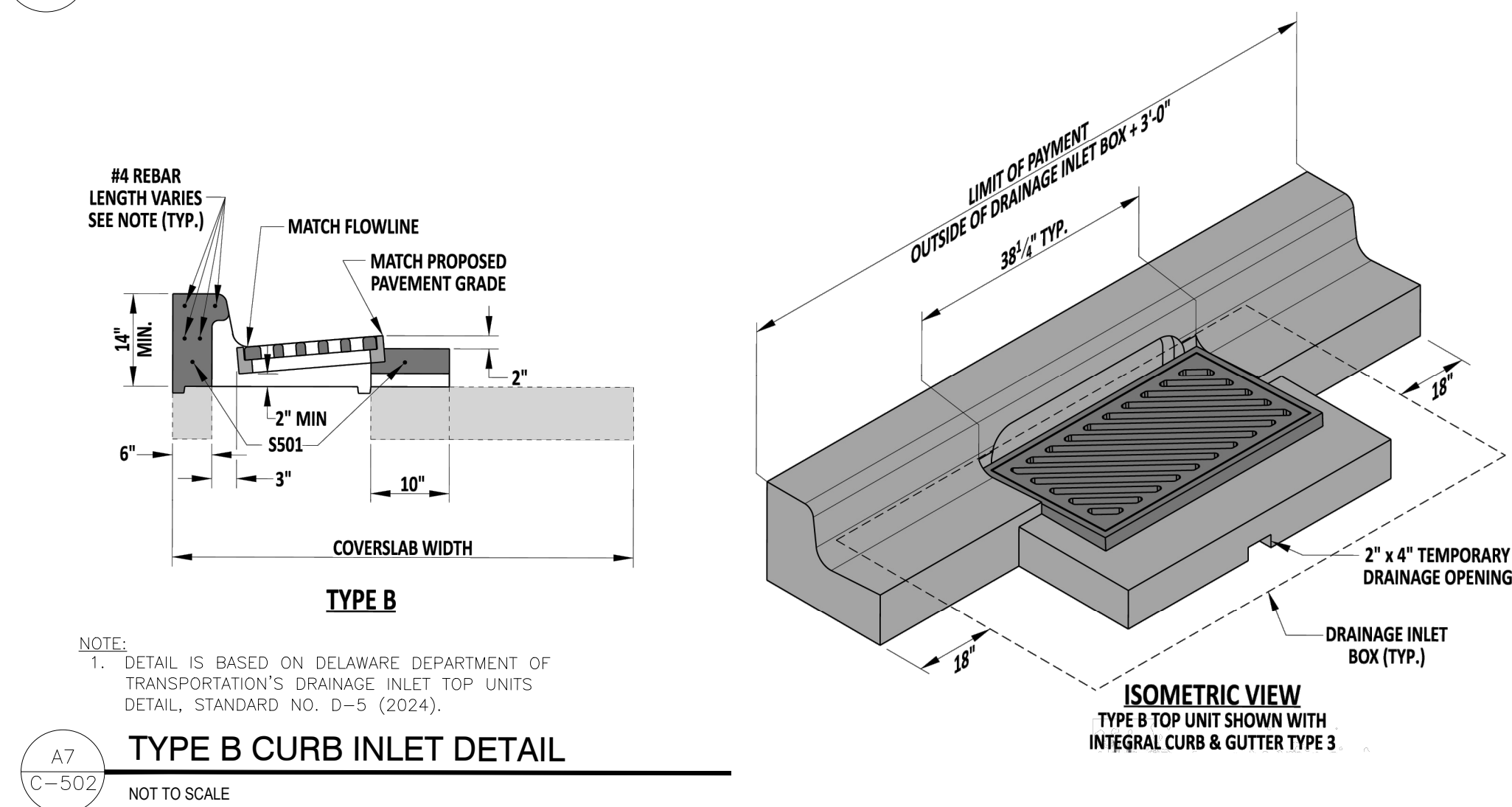
NOT TO SCALE



ALL SLOPES									
A	B	C	D	H	R	S=1 1/2:1	S=2:1	S=3:1	
8"	1'-0"	0	8"	1'-8"	-	3'-6"	4'-2"	5'-6"	
8"	1'-0"	0	10"	1'-10"	-	4'-0"	4'-10"	6'-6"	
10"	1'-4"	4"	12"	2'-0"	-	4'-6"	5'-6"	7'-6"	
10"	1'-4"	4"	15"	2'-3"	2 1/4"	5'-3"	6'-6"	9'-0"	
10"	1'-7"	6"	18"	2'-6"	2 3/4"	6'-0"	7'-6"	10'-6"	
1'-0"	1'-8"	6"	21"	2'-9"	3 1/8"	6'-9"	8'-6"	12'-0"	
1'-0"	1'-9"	6"	24"	3'-0"	3 5/8"	7'-6"	9'-6"	13'-6"	
1'-2"	2'-0"	8"	27"	3'-3"	4"	8'-3"	10'-6"	15'-0"	
1'-3"	2'-1"	8"	30"	3'-6"	4 1/2"	9'-0"	11'-6"	16'-6"	
1'-6"	2'-4"	10"	36"	4'-0"	5 1/2"	10'-6"	13'-6"	18'-6"	
1'-6"	2'-7"	12"	42"	4'-6"	6 3/8"	12'-0"	15'-6"	22'-6"	

C7
C-502
CONCRETE HEADWALL

NOT TO SCALE

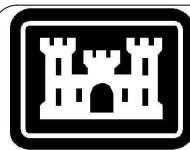


NOTE:

1. DETAIL IS BASED ON DELAWARE DEPARTMENT OF TRANSPORTATION'S DRAINAGE INLET TOP UNITS DETAIL, STANDARD NO. D-5 (2024).

A7
C-502
TYPE B CURB INLET DETAIL

NOT TO SCALE



US Army Corps
of Engineers ®

ISSUE DATE:	ISSUE NO.:	ISSUE DESCRIPTION:	DATE
08/20/2026	4	100% CORRECTED FINAL DESIGN	08/20/2026
06/26/2026	3	95% FINAL REDESIGN SUBMISSION	06/26/2026
11/04/2025	2	95% FINAL DESIGN SUBMISSION	11/04/2025
06/24/2025	1	65% INTERIM DESIGN SUBMISSION	06/24/2025

DESIGNED BY:	ISSUE DATE:	ISSUE NO.:	ISSUE DESCRIPTION:	DATE
D. RYAN	AUGUST 2026	4	100% CORRECTED FINAL DESIGN	08/20/2026
K. BACCARO	SOLICITATION NO.:	3	95% FINAL REDESIGN SUBMISSION	06/26/2026
G. HARRIS	CONTRACT NO.:	2	95% FINAL DESIGN SUBMISSION	11/04/2025
T. LAMB	CADD CODE:	1	65% INTERIM DESIGN SUBMISSION	06/24/2025
	SCALE:			
	P2 NO.:			
	FISCAL YEAR:			
	ANSI D			

USACE
Louisville District
220 West Main Street
Louisville, KY 40202

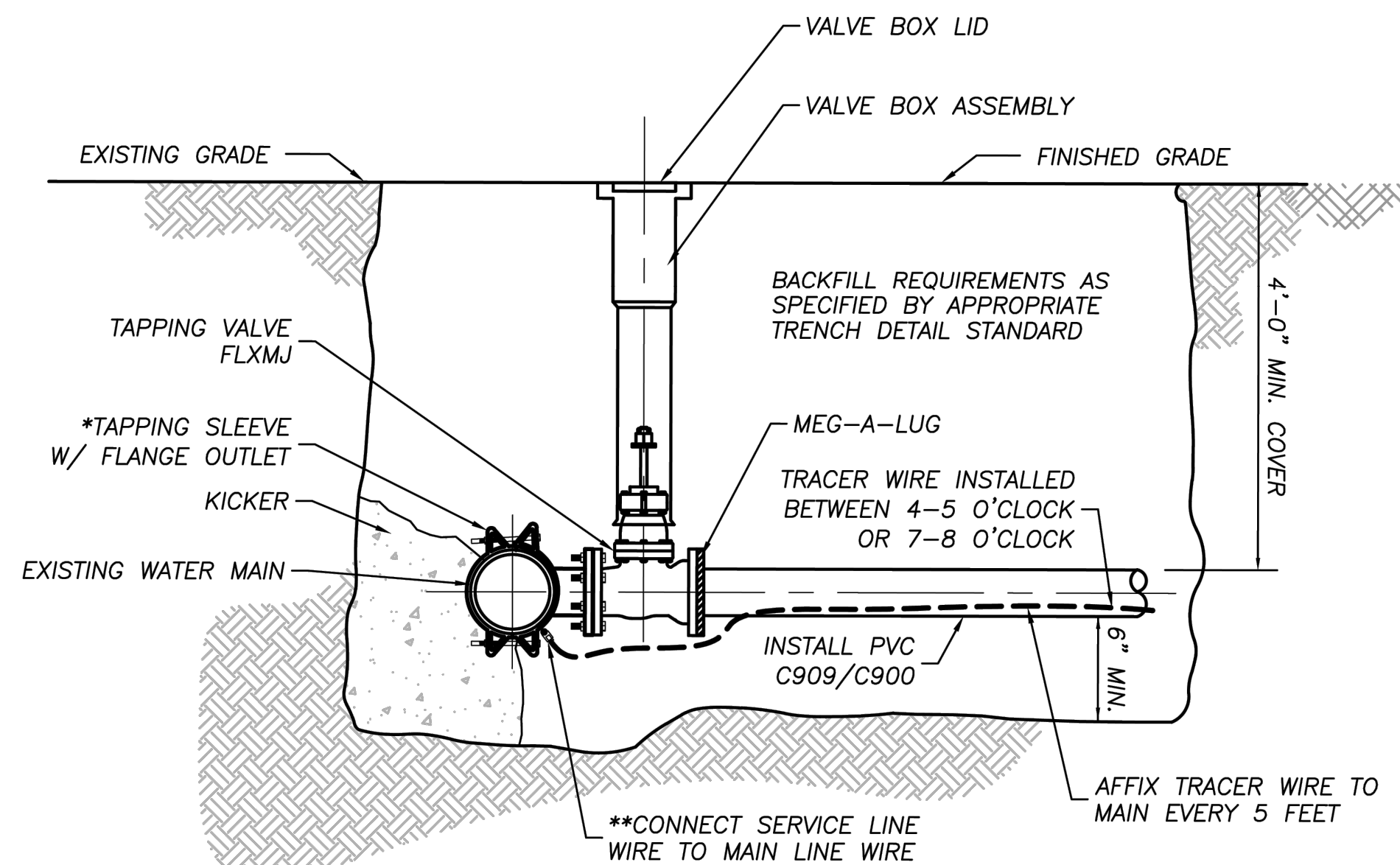
HDR Architecture, Inc. Suite 100
1000 Commonwealth Blvd.
Perrinton, NJ 08534

DR

Dover AFB - Dover, DE
512th Ops Group Facility
10416534

SITE DETAILS

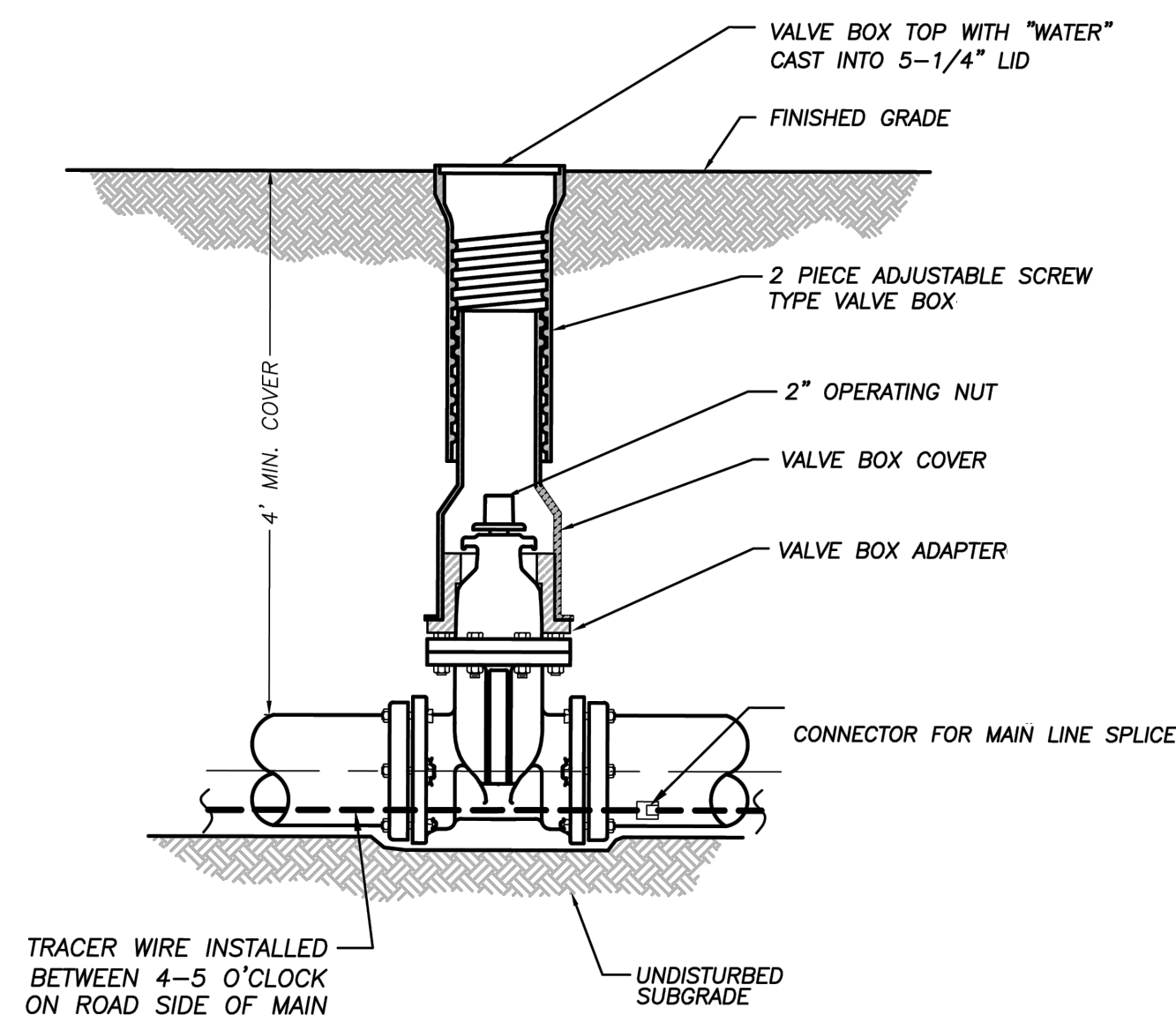
SHEET ID
C-502



* POSITION OF TAPPING SLEEVE — FOR 12" PIPE OR SMALLER, THE TAP TO BE LOCATED NO CLOSER THAN 24" FROM:

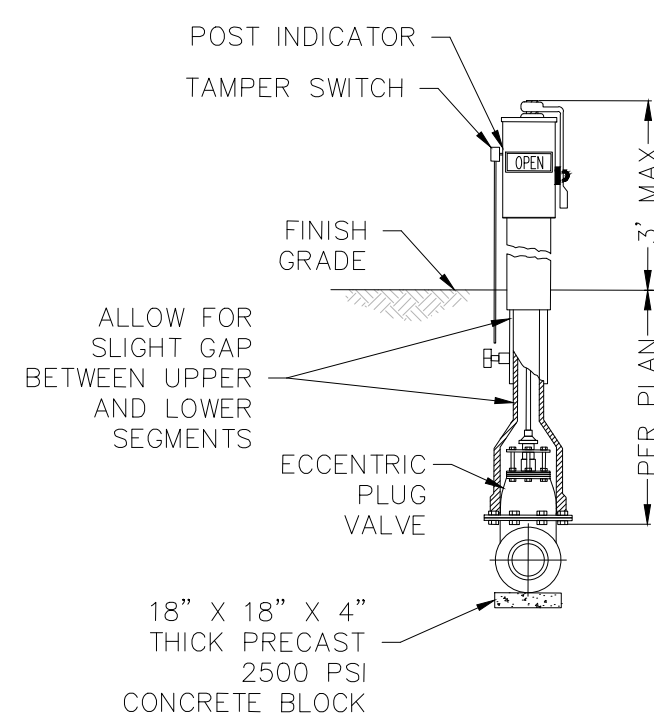
- THE BACK OF THE BELL
- THE SPIGOT INSERTION LINE
- JOINT RESTRAINT HARDWARE
- OTHER DIRECT TAPS OR SADDLE TAPS

TAPPING SLEEVE & VALVE INSTALLATION



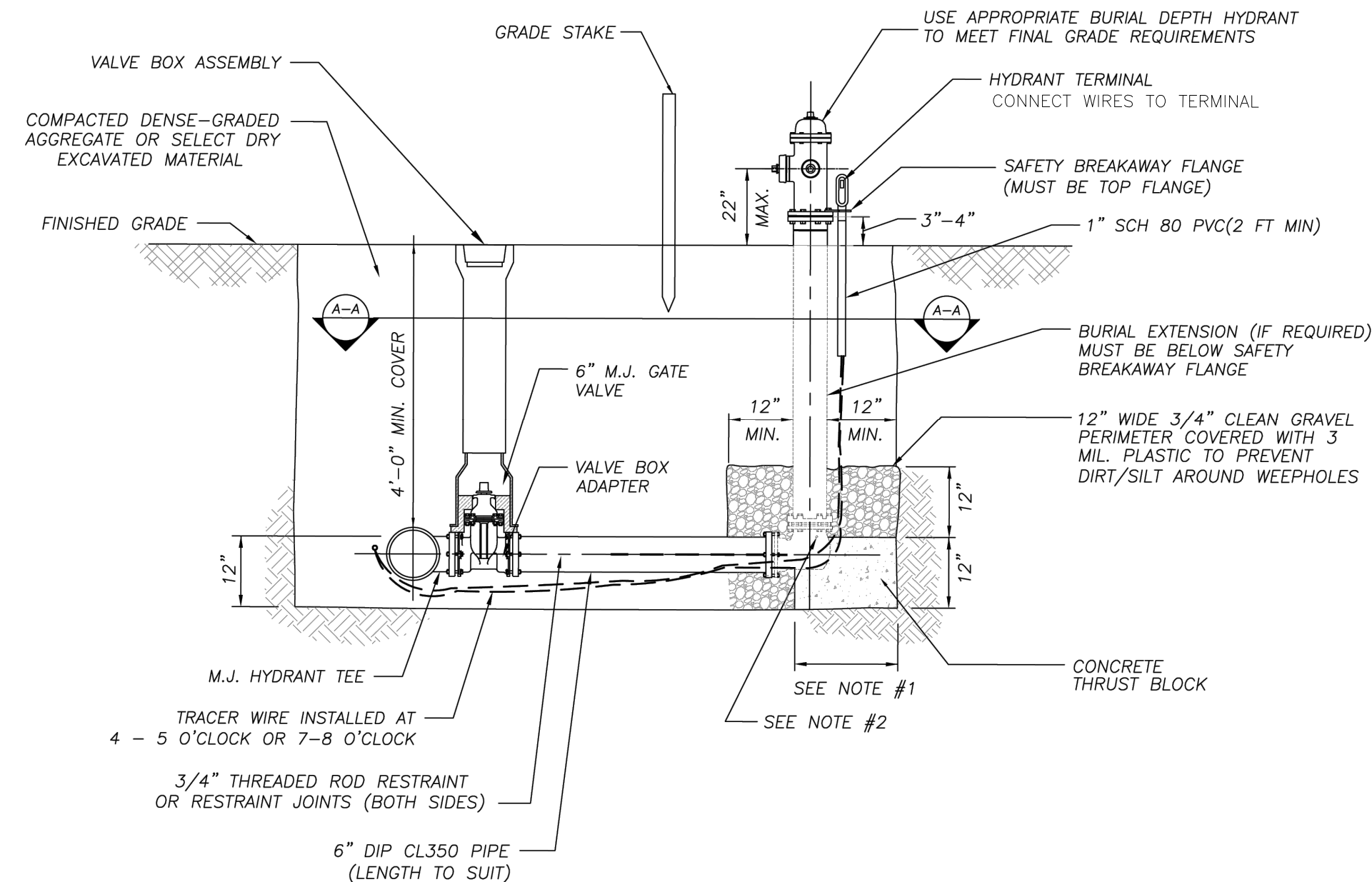
VALVE BOX DETAIL

NOT TO SCALE



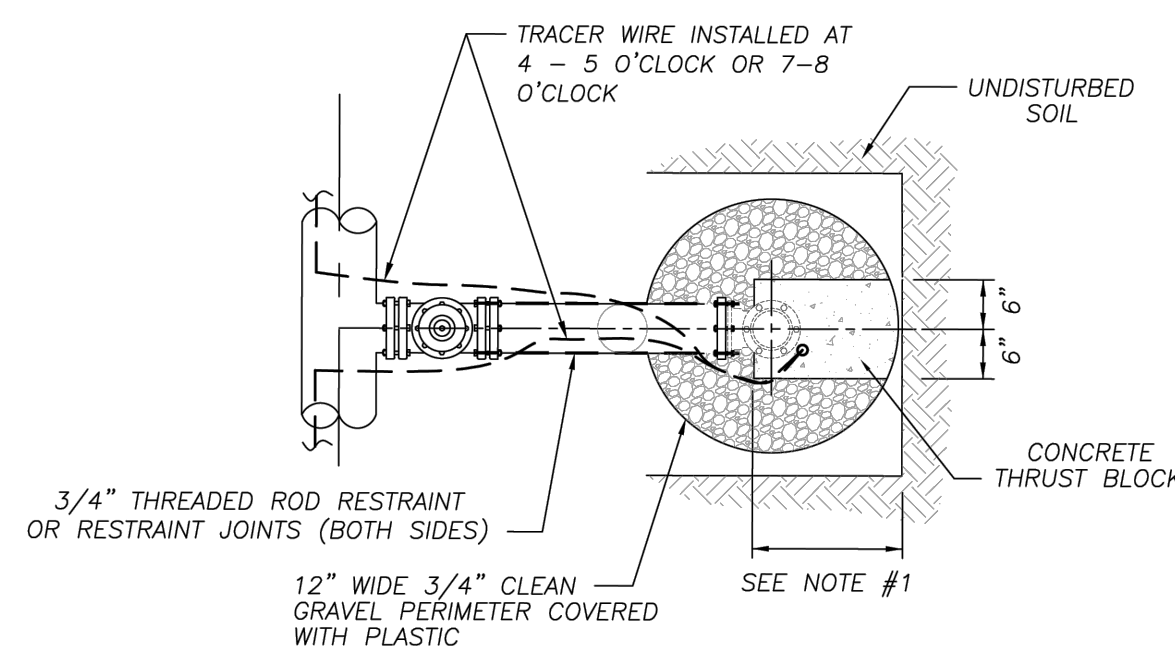
NOTE:
1. LABEL OR SIGNAGE TO BE PROVIDED BELOW POST INDICATOR TO INDICATE THAT POST INDICATOR SERVES THE PROPOSED BUILDING. CONTRACTOR TO COORDINATE WITH DOVER AIR FORCE BASE TO DETERMINE NAMING CONVENTION FOR SIGNAGE.

WATER - POST INDICATOR VALVE DETAIL

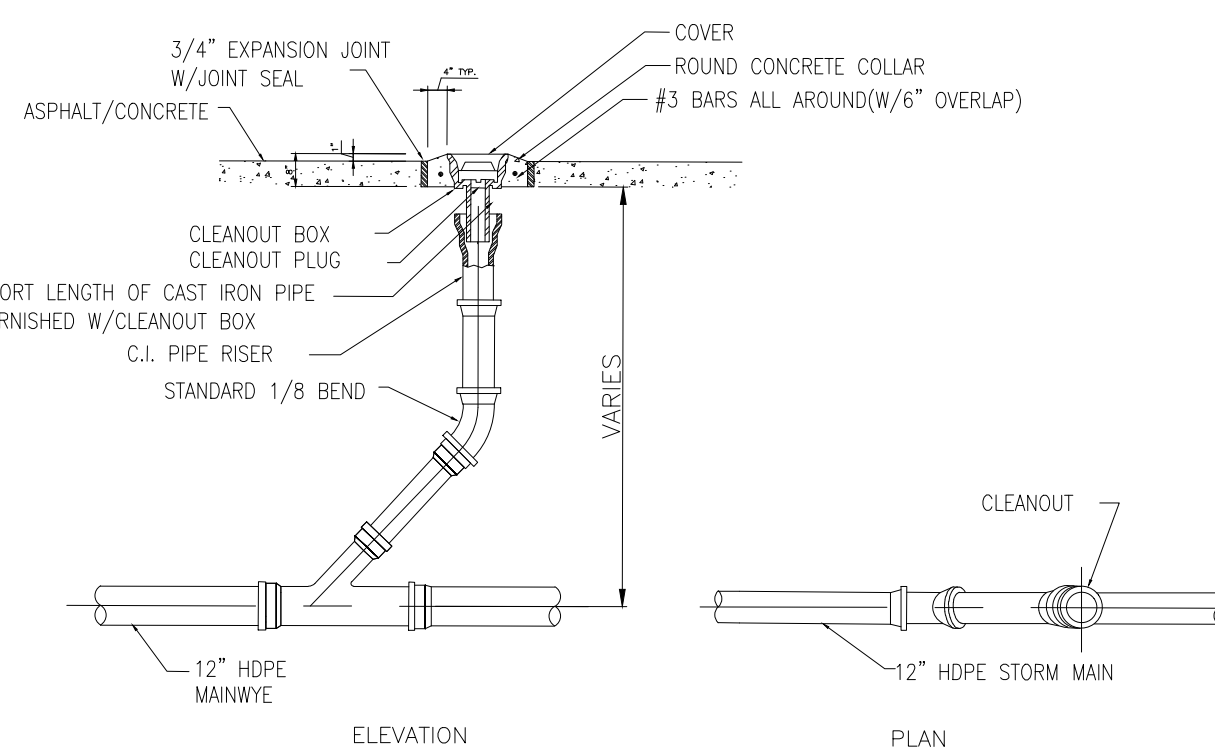


NOTES:

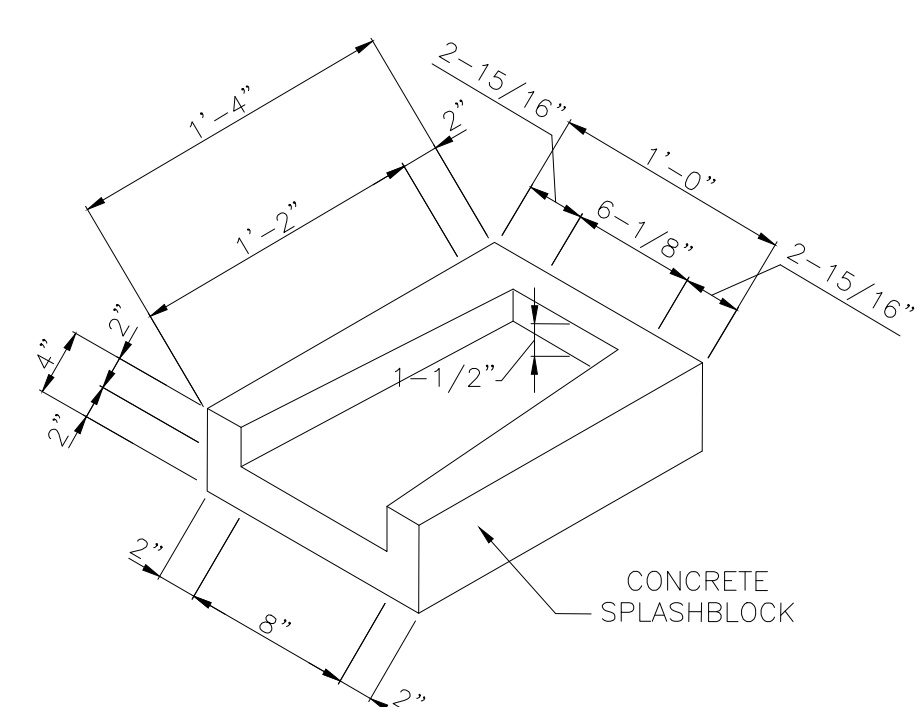
1. THE CONCRETE THRUST BLOCK IS TO BE EXTENDED HORIZONTALLY UNTIL IT COMES IN CONTACT WITH THE UNDISTURBED SIDES OF THE TRENCH.
2. ALL WEEP/DRAIN HOLES ON THE FIRE HYDRANT MUST BE LOCATED AT LEAST 3" FROM THE TOP OF THE CONCRETE THRUST BLOCK TO MAINTAIN FREE DRAINAGE.
3. ALL FIRE HYDRANTS TO BE 20" GROUNDLINE TO NOZZLE (STRETCH UPPER BARREL).
4. AFFIX TRACER WIRE EVERY 5 FEET ALONG HYDRANT LATERAL.
5. HYDRANT SHALL MEET ALL SPECIFICATIONS OF THE LOCAL FIRE DISTRICT IN WHICH THE HYDRANT IS LOCATED.



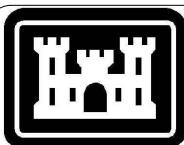
 **FIRE HYDRANT ASSEMBLY DETAIL**
NOT TO SCALE



STORM SEWER CLEANOUT DETAIL



SPLASH BLOCK



**US Army Corps
of Engineers ®**

[illegible]

DESIGNED BY: D. RYAN	DRAWN BY: K. BACCARO	SOLICITATION NO.:	ISSUE DATE: AUGUST 2026
CHECKED BY: G. G. HARNISH	CONTRACT NO.:	CONTRACT NO.:	
SUBMITTED BY:	W912QR24D0010	CADD CODE:	
T. LAMB			
SCALE: As Noted	P2 NO.:	FISCAL YEAR:	
ANSI D	518760	FY 26	

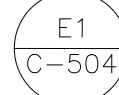
USACE
Louisville District
220 West Main Street
Louisville, KY 40202

HDR
HDR Architecture, Inc.
1800 American Blvd., Suite 100
Pennington, NJ 08534

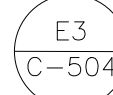
over AFB - Dover, DE
2th Ops Group Facility
10418534

SITE DETAILS

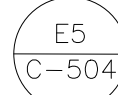
SHEET ID
C-503



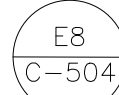
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



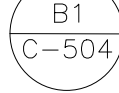
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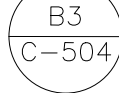


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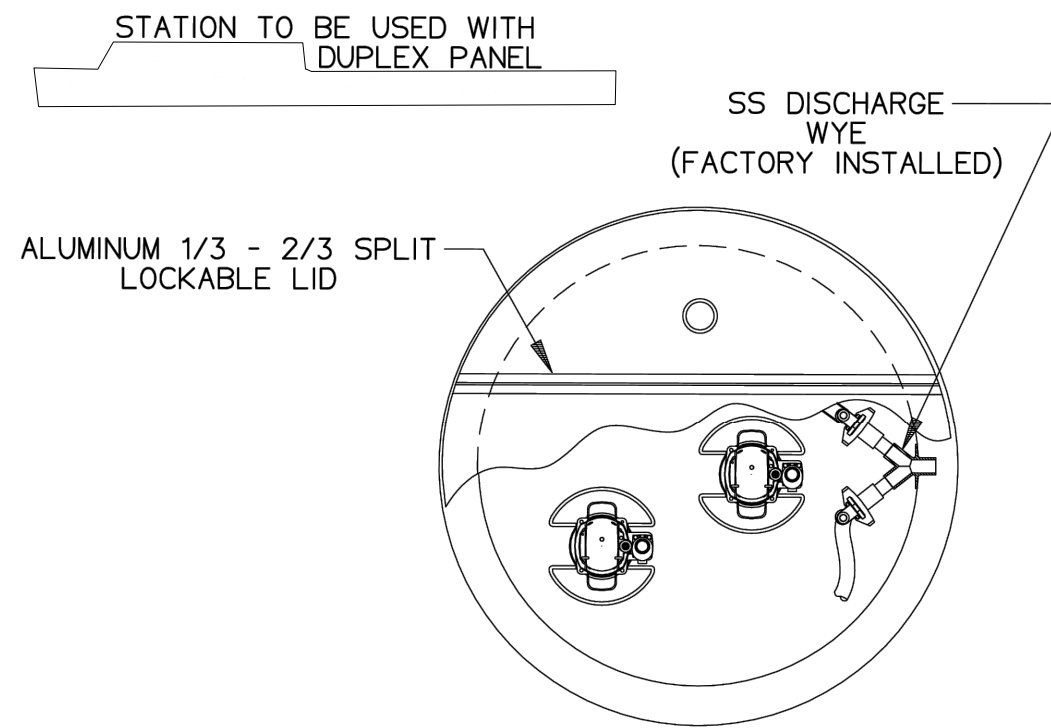


NOT TO SCALE



NOT TO SCALE

NOT TO SCALE



1. VALVE VAULT, IF REQUIRED, SHALL BE PROVIDED AS A SHOP DRAWING.
2. INSTALL WATER TIGHT RUBBER BOOT AROUND ALL PIPES WHERE EXTENDING THROUGH WALLS.
3. ALL INTERIOR PIPING SHALL BE COATED WITH EPOXY PAINT BEFORE INSTALLATION.
4. ALL ANCHOR BOLTS, EXPANSION BOLTS, ETC SHALL BE 3/16" S.S.
5. INSTALL A PRESSURE SENSOR ON THE FORCE MAIN, PLACE AT 4" S.S. PRESSURE GAUGE AND VALVE ON THE PRESSURE SENSOR. THE PRESSURE GAUGE AND VALVE SHALL HAVE A RANGE FROM 0 TO 75 PSI.
6. A HYDROSTATIC PRESSURE CONTROL SYSTEM SHALL BE USED FOR SEWAGE EJECTOR AND PIT THAT EXCEED 15' DEEP IN LIEU OF FLOAT CONTROLS.
7. PROVIDE EMERGENCY GENERATOR RECEPTACLE.
8. BOTTOM ELEVATION OF PIT AND ELEVATION OF PUMP MAY BE ADJUSTED TO THE MINIMUMS (DEPTH OF SUBMERGENCE AND CLEAR DISTANCE) DETERMINED BY THE PUMP MANUFACTURER.
9. PUMP SHALL BE CAPABLE OF PUMPING 13.9 GPM @ 15-FOOT HEAD, WITH 1 HP AND 1725 RPM. PUMP SHALL BE CONNECTED TO 240 V, 1-PHASE POWER. CONTROL PANEL TO BE LOCATED ON BUILDING AT POINT INDICATED IN PLANS. CONTRACTOR TO CONTACT DESIGNER OF RECORD FOR SYSTEM HEAD CURVE PRIOR TO SUBMISSION OF PROPOSED STATION FOR APPROVAL.
10. CONTRACTOR TO PROVIDE CONTROL PANEL AND WIRING DIAGRAM WITH SHOP DRAWING SUBMISSION.
11. CONTRACTOR SHALL INSTALL TRACER WIRE ABOVE FORCE MAIN.
12. FORCE MAIN SHALL BE SDR11 HDPE.
13. SHOP DRAWING SUBMISSION SHALL INCLUDE ANTI-FLOAT COMPUTATIONS FROM THE SUPPLIER/MANUFACTURER.

NOT TO SCALE

SHEET ID
C-507

[illegible]

D. RYAN	AUGUST 2026
DRAWN BY: K. BACCARO	SOLICITATION NO.:
CHECKED BY: G. HARNISH	CONTRACT NO.:
SUBMITTED BY: T. LAMB	W9120R24D0010
ANSI: SIZE: As Noted	CADD CODE:
P2 NO: 518760 FY 26	FISCAL YEAR:

HR

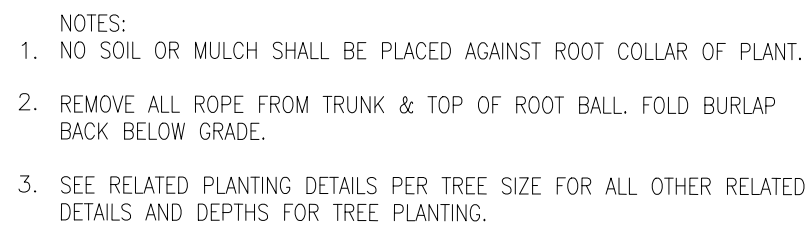
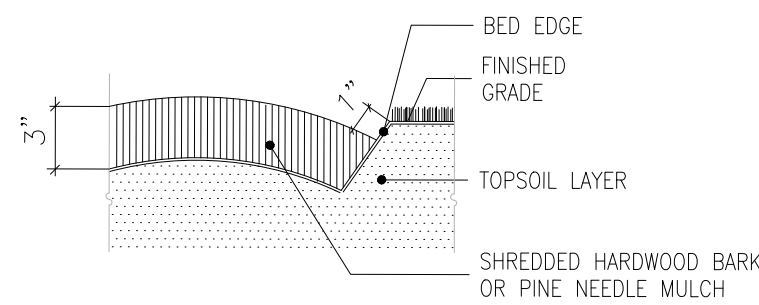
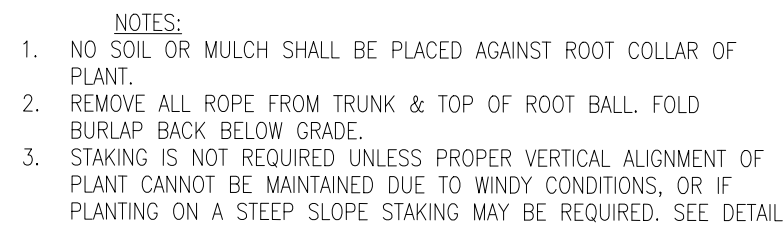
Louisville District
220 West Main Street
Louisville, KY 40202

HDR Architecture, Inc.
1800 American Blvd., Suite 100
Pennington, NJ 08534

512th Ops Group Facility
10418534

PLANTING DETAILS

SHEET ID
C-508



 **PLANTING BED EDGE DETAIL**
NOT TO SCALE

TREE STAKING DETAIL