

INDEX OF SHEETS

NO.	SHEET NO.	TITLE
1	T-1	TITLE SHEET
2	TS-01	TYPICAL SECTIONS & PAVING DETAILS
3	GL-01	GEOMETRIC LAYOUT
4-6	PS-01 TO PS-02	ROADWAY PLAN (2 SHEETS)
6A	PS-03	TURNAROUND SITE PLAN AND DETAILS
7	ES-01	EROSION AND SEDIMENT CONTROL NOTES (1 OF 3)
8	ES-02	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 3)
9	ES-03	EROSION AND SEDIMENT CONTROL PLAN (3 OF 3)
10	SW-01	STORM DRAIN PLAN VIEW
11	SW-02	STORMWATER MANAGEMENT PLAN VIEW
12	SW-03	STORM DRAIN PROFILES, SCHEDULES AND DETAILS
13	SW-04	STORMWATER MANAGEMENT DETAILS
14	SN-01	SIGNING AND PAVEMENT MARKING
14A	SN-02	CROSSWALK
15-16	LP-01 TO LP-02	LIGHTING PLAN (2 SHEETS)
17	LP-03	LIGHTING NOTES
18	MT-01	MAINTENANCE OF TRAFFIC NOTES
19	MT-02	FLAGGING OPERATION
20	MT-03	DETOUR PLAN
21	S-1	BRIDGE GENERAL NOTES
22	S-2	BRIDGE GENERAL PLAN AND ELEVATION
23-29	S-3 TO S-9	FRAMING PLAN (7 SHEETS)
30	S-10	DECK JOINT REPAIR AND DRAIN TROUGH DETAILS
31	S-11	DRAINAGE TROUGH AT BUTTRESS ELEVATION
32	S-12	DOWNSPOUT DETAILS
33-36	S-13 TO S-16	PARAPET JOINT REPAIR (4 SHEETS)
37	S-17	SIDEWALK AND CURB JOINT SEAL DETAILS
38	S-18	CONCRETE SPALL REPAIR DETAILS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MARYLAND DOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2021, INCLUDING REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS, BOOK OF STANDARDS FOR HIGHWAYS, INCIDENTAL STRUCTURES AND TRAFFIC CONTROL APPLICATIONS, MONTGOMERY COUNTY DOT DESIGN STANDARDS, AND 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THE EXISTING UTILITIES AND OBSTRUCTION SHOWN ARE FROM THE AVAILABLE RECORDS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE USED BY THE CONTRACTOR TO PROTECT EXISTING UTILITIES, AND ANY DAMAGE TO THE UTILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR IN COORDINATION WITH THE UTILITY OWNER AT NO COST TO THE COUNTY.
- CLEARING IS TO BE LIMITED TO THE "LOD" AS SHOWN ON THE PLANS.
- ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION AND /OR DIGGING TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES.
- RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING PLANS ONLY. FOR DETAILED INFORMATION SEE THE APPROPRIATE RIGHT-OF-WAY PLATS.
- ACCESS TO ADJACENT EXISTING HOMES' ENTRANCE SHALL BE MAINTAINED DURING CONSTRUCTION.

THE FOLLOWING STANDARDS (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) ARE REQUIRED FOR THIS PROJECT:

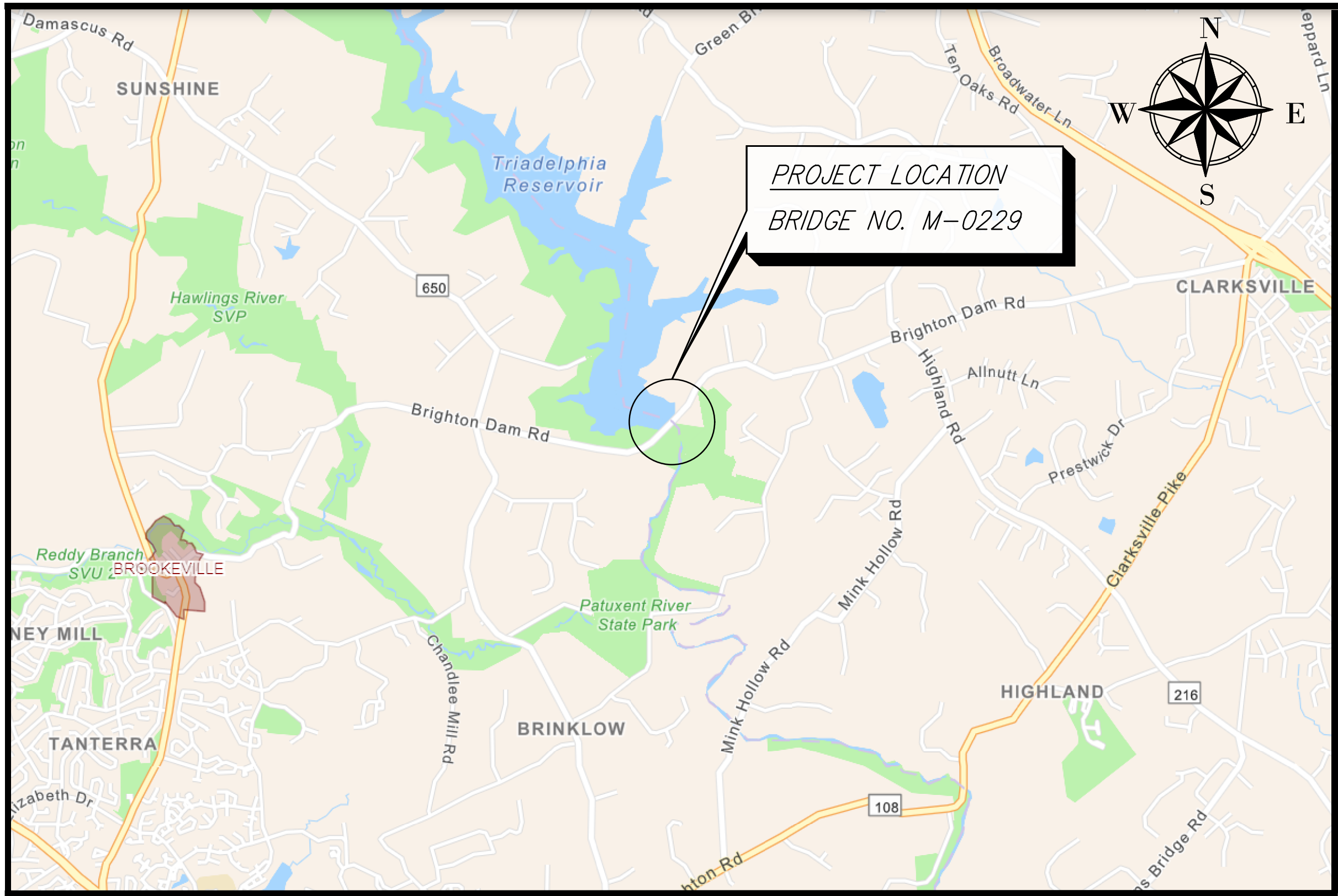
- a. 620.02 - STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER

FOR ALL STANDARDS REFERRED TO ON THE PLANS THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT:

<http://apps.roads.maryland.gov/businesswithsha/bizstdsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp>

ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM
C. I. P. PROJECT NO. 0501907



VICINITY MAP

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28888 EXPIRATION DATE 06-20-2023

90% PLAN SUBMISSION
June 28, 2022

OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE

TIMOTHY H. CUPPLES
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED JUNE 2014.

DATE

PRINTED NAME: DEGANG LI.
MD. REGISTRATION NO.: 28888

DESIGN TRAFFIC DATA

ROADWAY	BRIGHTON DAM ROAD	
CONTROLS / YEARS	2021	2041
AVERAGE DAILY TRAFFIC (A.D.T.)	5685	8450
% TRUCKS - A.D.T.	5.1%	6%
DESIGN SPEED	30 M.P.H.	
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR	
CONTROL OF ACCESS	NONE	
POSTED SPEED	30 M.P.H.	

DATUM

HORIZONTAL DATUM	NAD 83 / 91
VERTICAL DATUM	NAVD 88

T-1

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

TITLE SHEET

Project No. : 0501907 SHEET 1 of 38



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

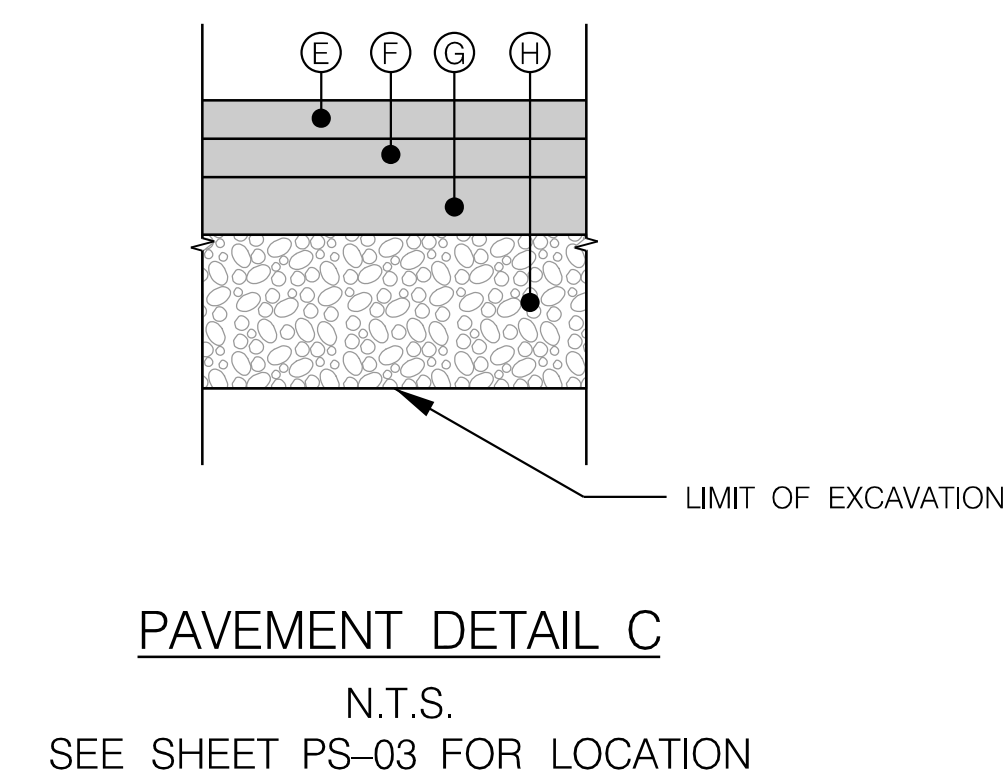
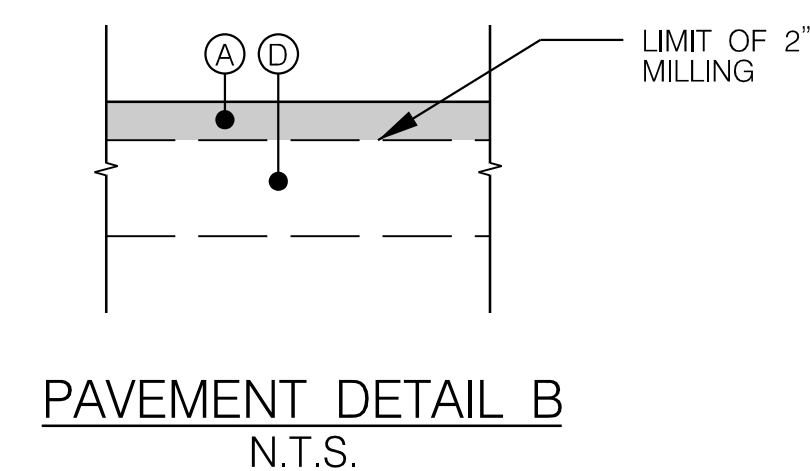
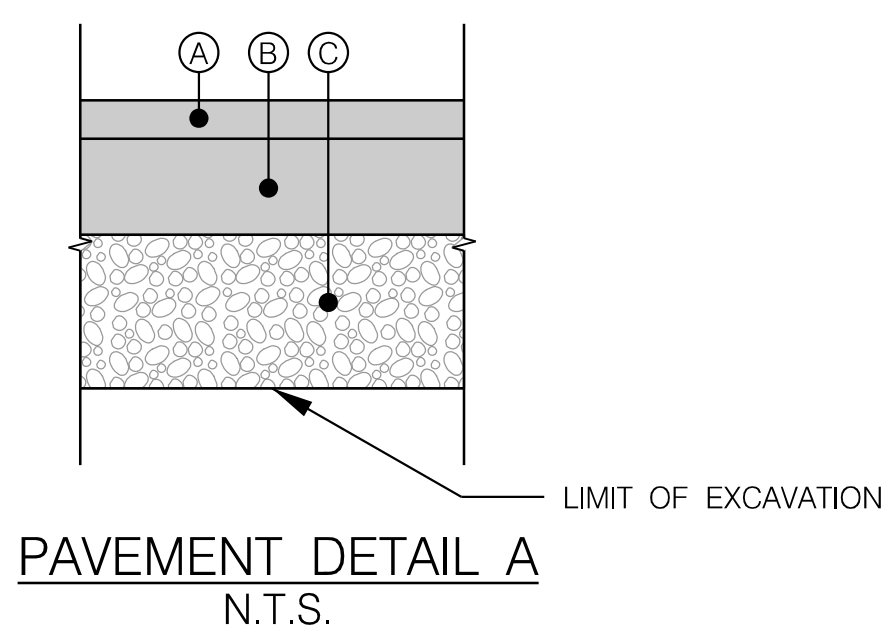
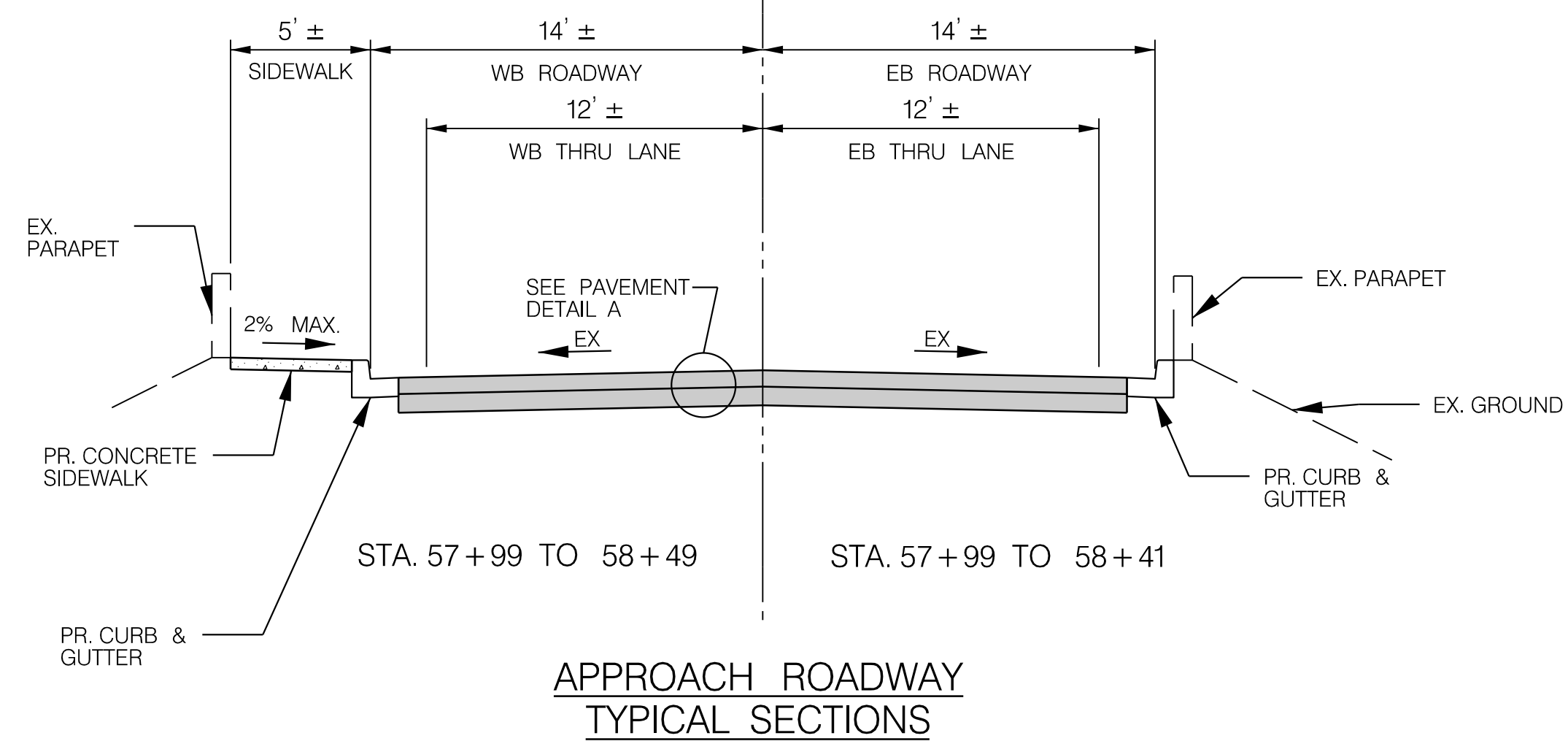
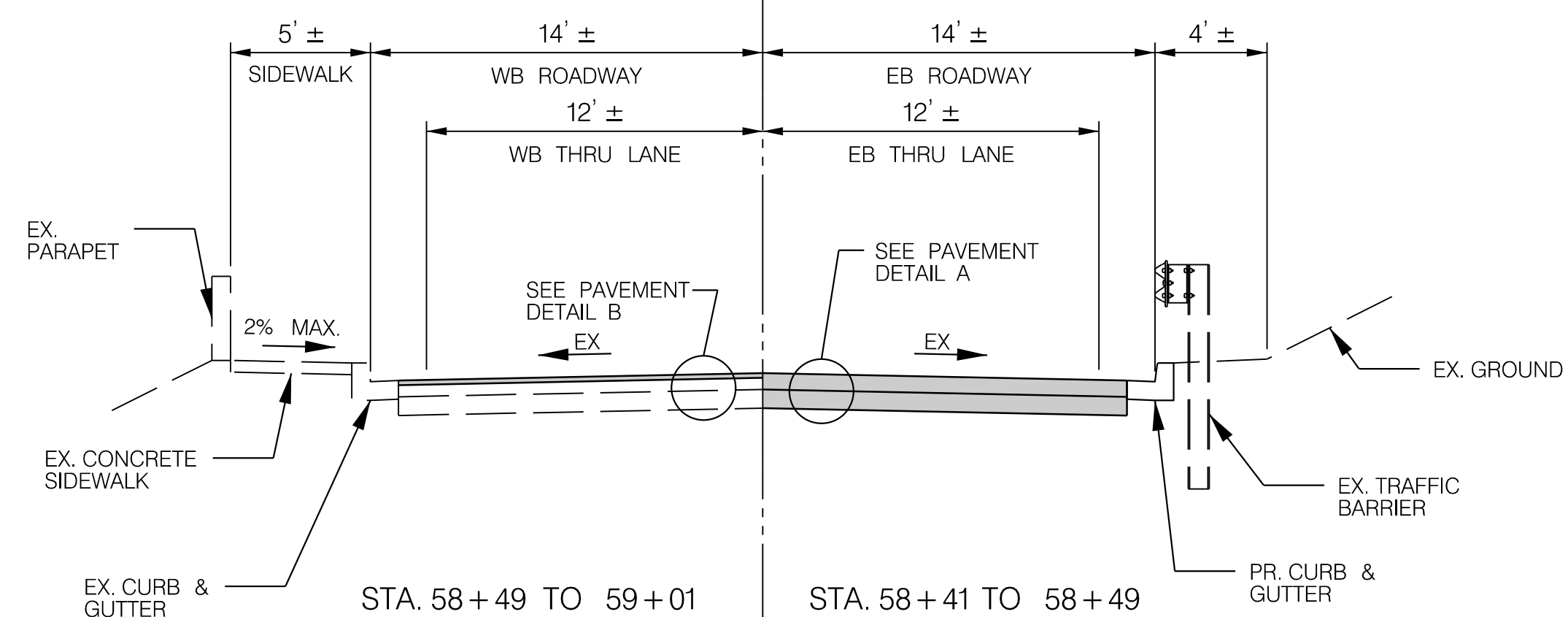
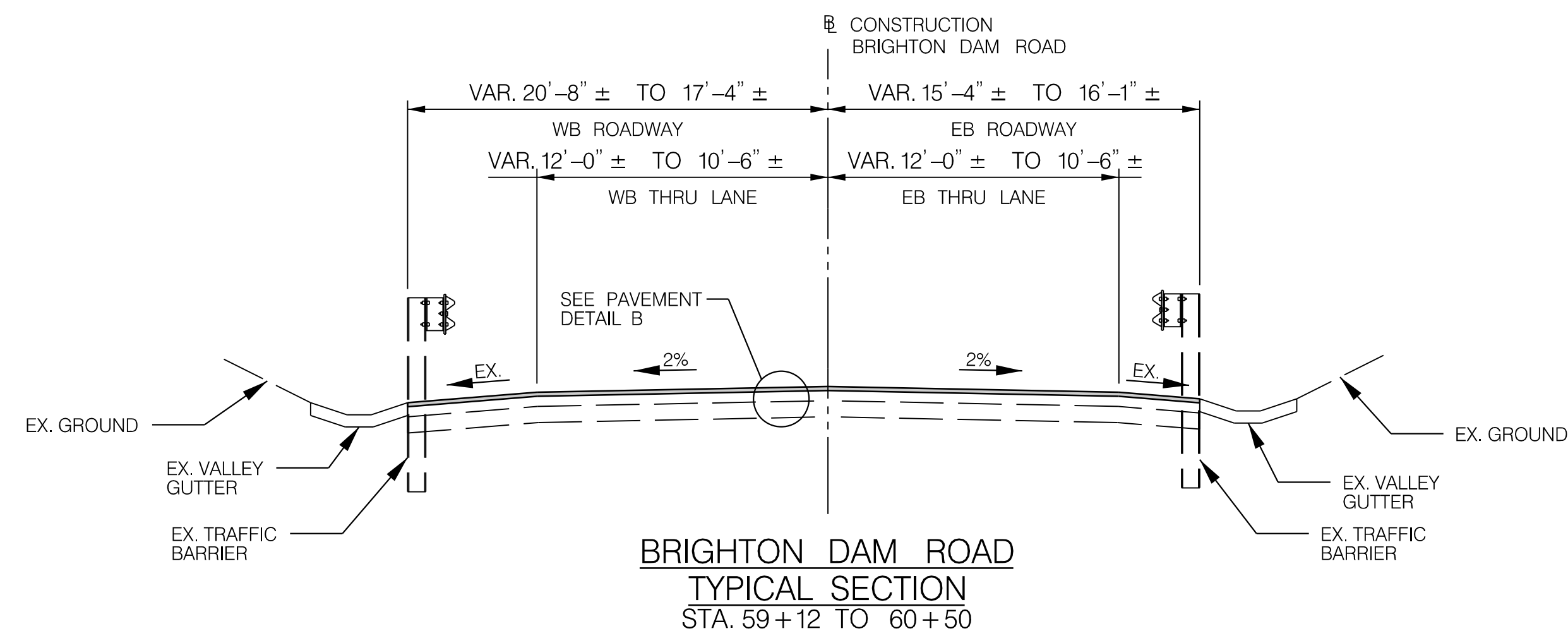
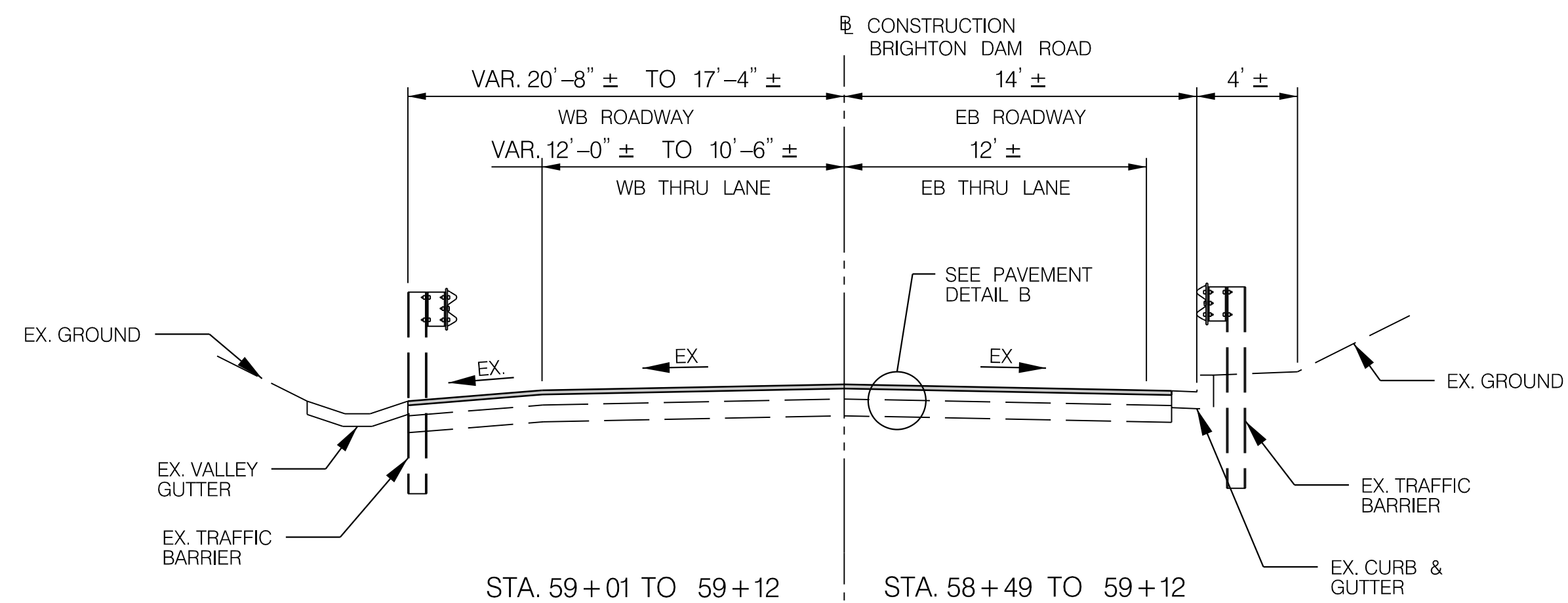
Date

Chief, Division of Transportation Engineering

Date

Designed by: DL Drawn by: DL Checked by: DHM III

NO.	REVISION	DATE	BY
-----	----------	------	----



PAVEMENT DETAILS

- (A) 2" SUPERPAVE ASPHALT MIX 9.5MM FOR SURFACE, PG 64S-22, LEVEL 2
- (B) 5" SUPERPAVE ASPHALT MIX 25.0MM FOR BASE 64S-22, LEVEL 2
NOTE: PLACE 1-2" AND 1-3" LIFTS
- (C) 8" GRADED AGGREGATE BASE COURSE
NOTE: PLACE 2-4" LIFTS
- (D) EX. PAVEMENT
- (E) 2" SUPERPAVE ASPHALT MIX 12.5MM FOR SURFACE, PG 70-22 LEVEL 3
- (F) 2" SUPERPAVE ASPHALT MIX 12.5MM FOR SURFACE, PG 64-22 LEVEL 3
- (G) 7" SUPERPAVE ASPHALT MIX 19.0MM FOR BASE 64-22, LEVEL 3
NOTE: PLACE 2-2" AND 1-3" LIFTS
- (H) 13" GRADED AGGREGATE BASE COURSE
NOTE: PLACE 2-4" AND 1-3" LIFTS

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

 Chief, Division of Transportation Engineering Date _____

Designed by: DHM III Drawn by: DHM III Checked by: DL

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

TYPICAL SECTIONS & PAVING DETAILS

Project No. : 0501907 SHEET 02 of 38

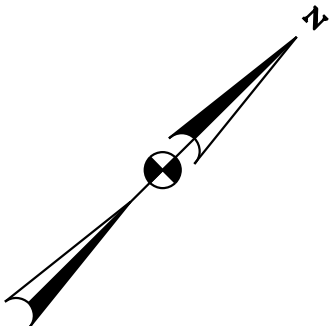
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 46328 EXPIRATION DATE 12-31-2022



TRAFFIC BARRIER W BEAM USING 6 FOOT POST		
QTY	STATION, OFFSET EDGE OF SIDEWALK	REMARKS
20 LF	STA. 49 + 29.47, 22.12 (RT) - STA. 49 + 45.92, 15.00' (RT)	STD. MD 605.22

TRAFFIC BARRIER W-BEAM ONE-SIDED DOWNSTREAM END TREATMENT TYPE K		
QTY	STATION, OFFSET EDGE OF SIDEWALK	REMARKS
1 EA	STA. 49 + 29.47, 22.12' (RT)	STD. MD 605.10



TRIADELPHIA
RESERVOIR

N 555890
E 1310660

TO HIGHLAND ROAD

CONSTRUCTION
BRIGHTON DAM ROAD

EX. ROW
LINE

EX. ROW
LINE

PATUXENT
RIVER

BRIGHTON DAM ROAD

REPLACE DAMAGED
W-BEAM TRAFFIC BARRIER

LIMIT OF WORK
BRIGHTON DAM ROAD

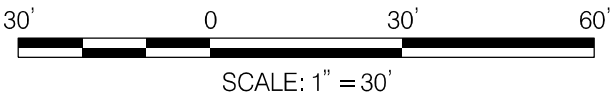
MATCH LINE STA. 55 + 00 - SEE SHEET PS-02

PS-01

LEGEND	
	PROP. MILL & OVERLAY
	PROP. SIDEWALK
	PROP. PAVEMENT

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 46328 EXPIRATION DATE 12-31-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by: DHM III Drawn by: DHM III Checked by: DL

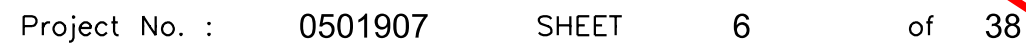
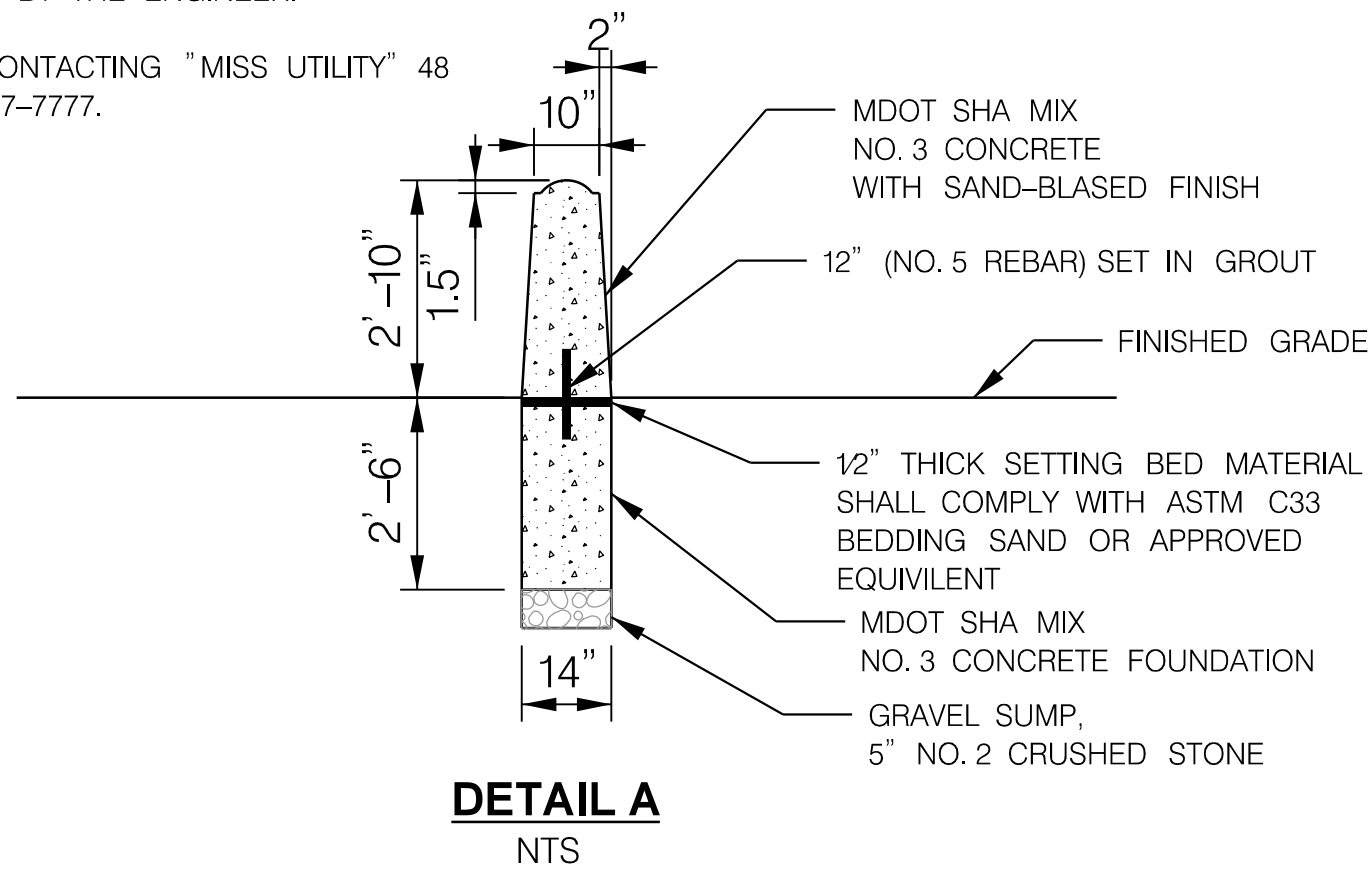
REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

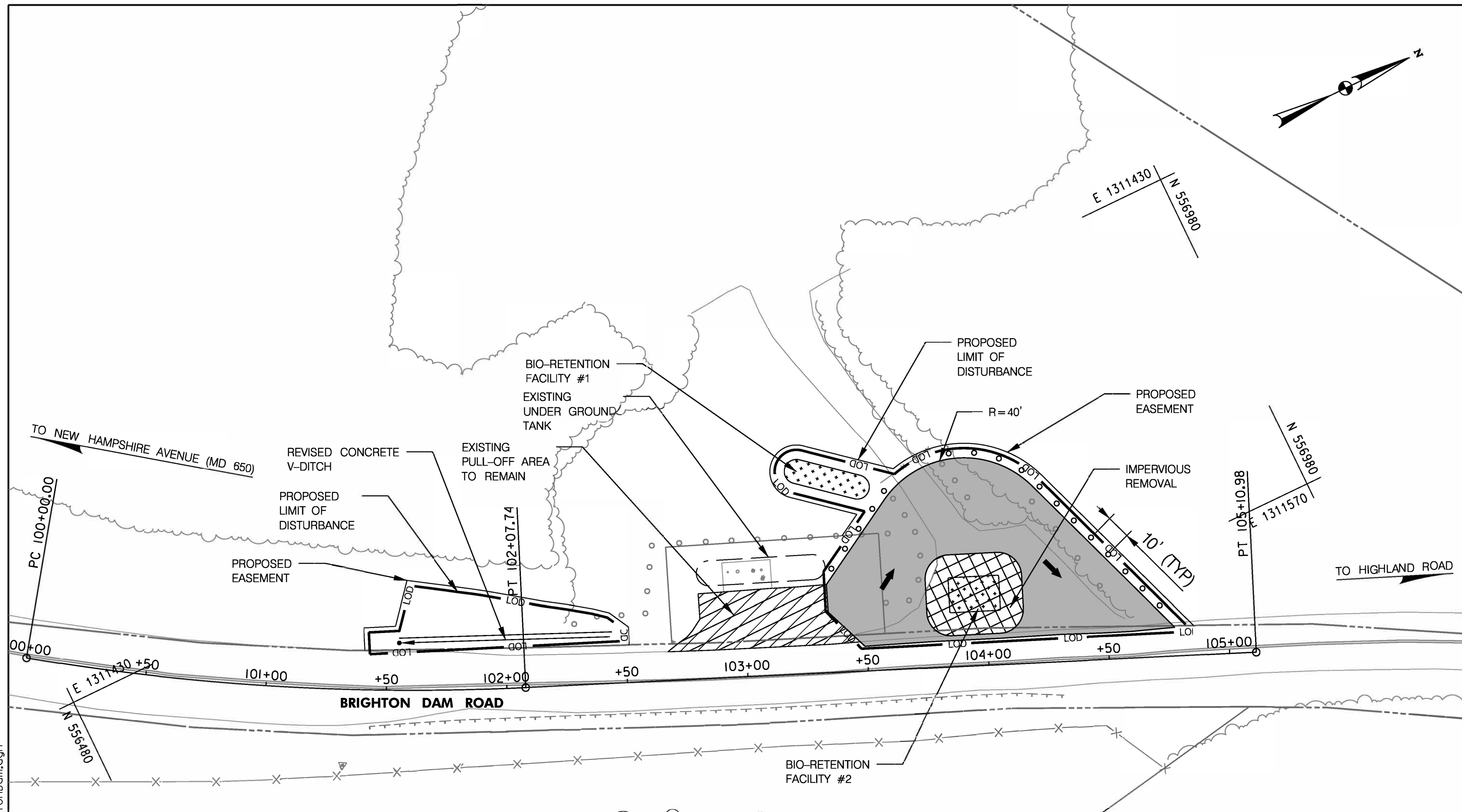
ROADWAY PLAN (1 OF 3)

Project No. : 0501907 SHEET 4 of 38

9:00:57 AM 6/22/2022 \\US050525-PPFSS01\workgroup\2026\active\2026213\02\700_CADD\Civil\cphd-P001.BrightonDam.dgn

MODELNAME:\$MODELNAME\$



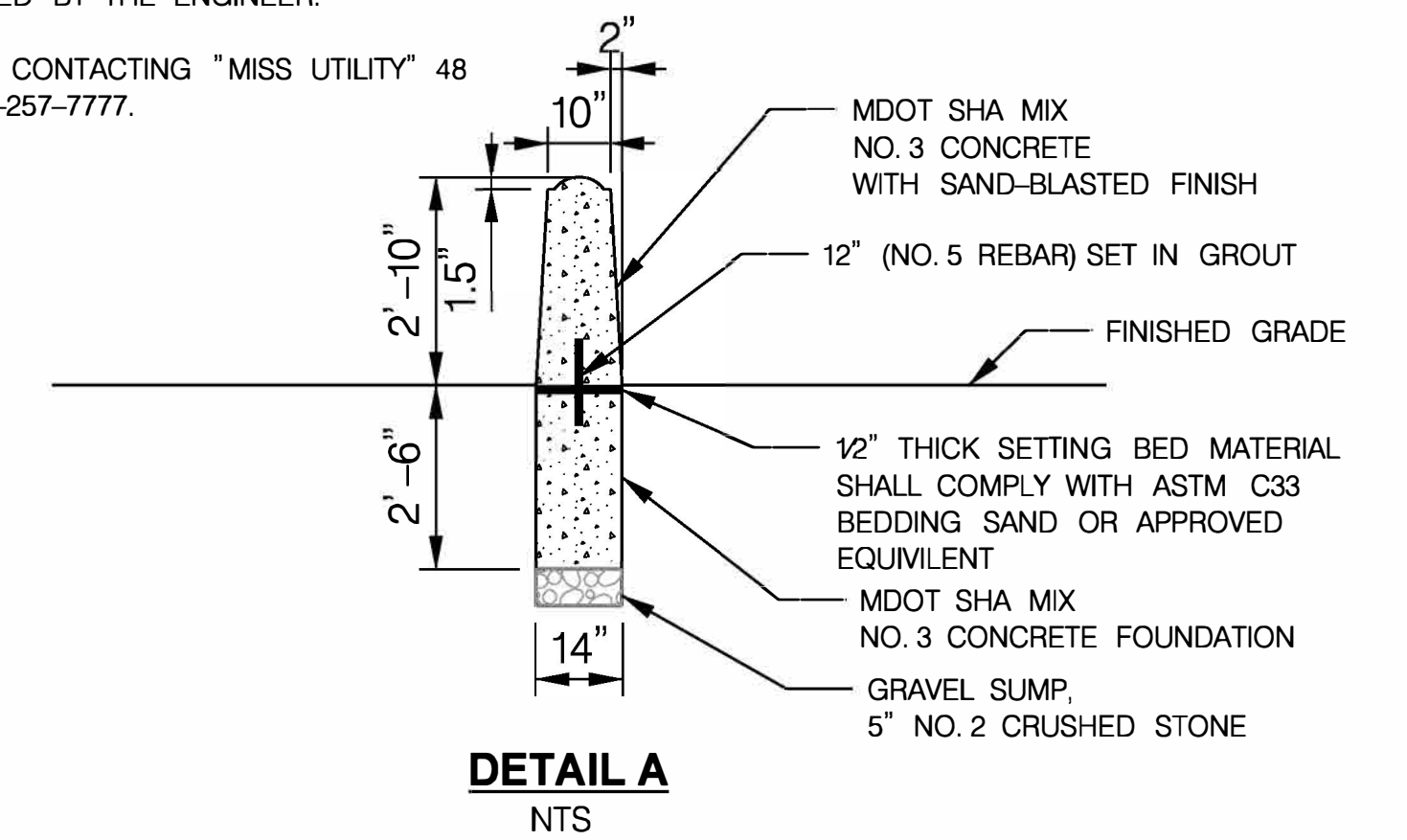


NEW IMPERVIOUS	=	3563 SF
IMPERVIOUS REMOVAL	=	1221 SF
TOTAL LOD	=	10018 SF

UTILITY NOTE

THE UNDERGROUND UTILITY LOCATIONS SHOWN HERE ON HAVE BEEN LOCATED FROM A COMBINATION OF FIELD SURVEY INFORMATION, AERIAL SURVEY, AND/OR EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ON THE AFOREMENTIONED INFORMATION OBTAINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" 48 HOURS PRIOR TO CONSTRUCTION, 1-800-257-7777.



PLAN

LEGEND



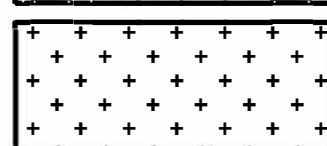
PROP. MILL & OVERLAY



PROP. SIDEWALK



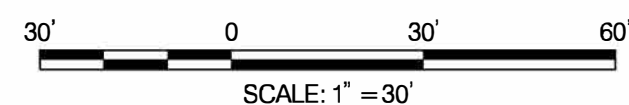
PROP. PAVEMENT



PROP. BIO-RETENTION FACILITY

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 46328 EXPIRATION DATE 12-31-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Date _____

Date _____

Date _____

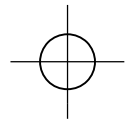
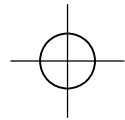
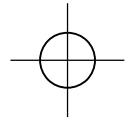
by DL

REHABILITATION OF BRIDGE NO. M-0229 ON BRIGHTON DAM ROAD OVER BRIGHTON DAM

TURNAROUND SITE PLAN AND DETAILS - CONCEPT

Project No. : 0501907 SHEET 6A of

PS-03



9:08:52 AM 6/22/2022 \\US0525-PPE\SSO\workgroup\2026\active\2026213\02\700_CADD\Civil\pDES-N001.BrightonDam.dgn

HOWARD SOIL CONSERVATION DISTRICT (HSCD)

STANDARD SEDIMENT CONTROL NOTES

1.

A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages:

a.

Prior to the start of earth disturbance,

b.

Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,

c.

Prior to the start of another phase of construction or opening of another grading unit,

d.

Prior to the removal or modification of sediment control practices.
- Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.
2.

All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
3.

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.
4.

All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >15" of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).
5.

All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.
6.

Site Analysis:

Total Area of Site:

.53

Acre

Area Disturbed:

.53

Acre

Area to be roofed or paved:

.21

Acre

Area to be vegetatively stabilized:

.32

Acre

Total Cut:

1861

Cu. Yds.

Total Fill:

0

Cu. Yds.

Offsite waste/borrow area location:
7.

Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8.

Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:

* Inspection date

* Inspection type (routine, pre-storm event, during rain event)

* Name and title of inspector

* Weather information (current conditions as well as time and amount of last recorded precipitation)

* Brief description of project's status (e.g., percent complete) and/or current activities

* Evidence of sediment discharges

* Identification of plan deficiencies

* Identification of sediment controls that require maintenance

* Identification of missing or improperly installed sediment controls

* Compliance status regarding the sequence of construction and stabilization requirements

* Photographs

* Monitoring/sampling

* Maintenance and/or corrective action performed

* Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).

9.

Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter.

10.

Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes.

11.

Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

12.

Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

13.

Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.

14.

All Silt Fence and Super Silt Fence shall be placed on-the-contour, or be imbricated at 25' maximum intervals, with lower ends curled uphill by 2' in elevation.

15.

Stream channels must not be disturbed during the following restricted time periods (inclusive):

* Use I and IP March 1 – June 15

* Use III and IIIIP October 1 – April 30

* Use IV March 1 – May 31

16.

A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.
- BEFORE BEGINNING CONSTRUCTION CONTACT

"MISS UTILITY"

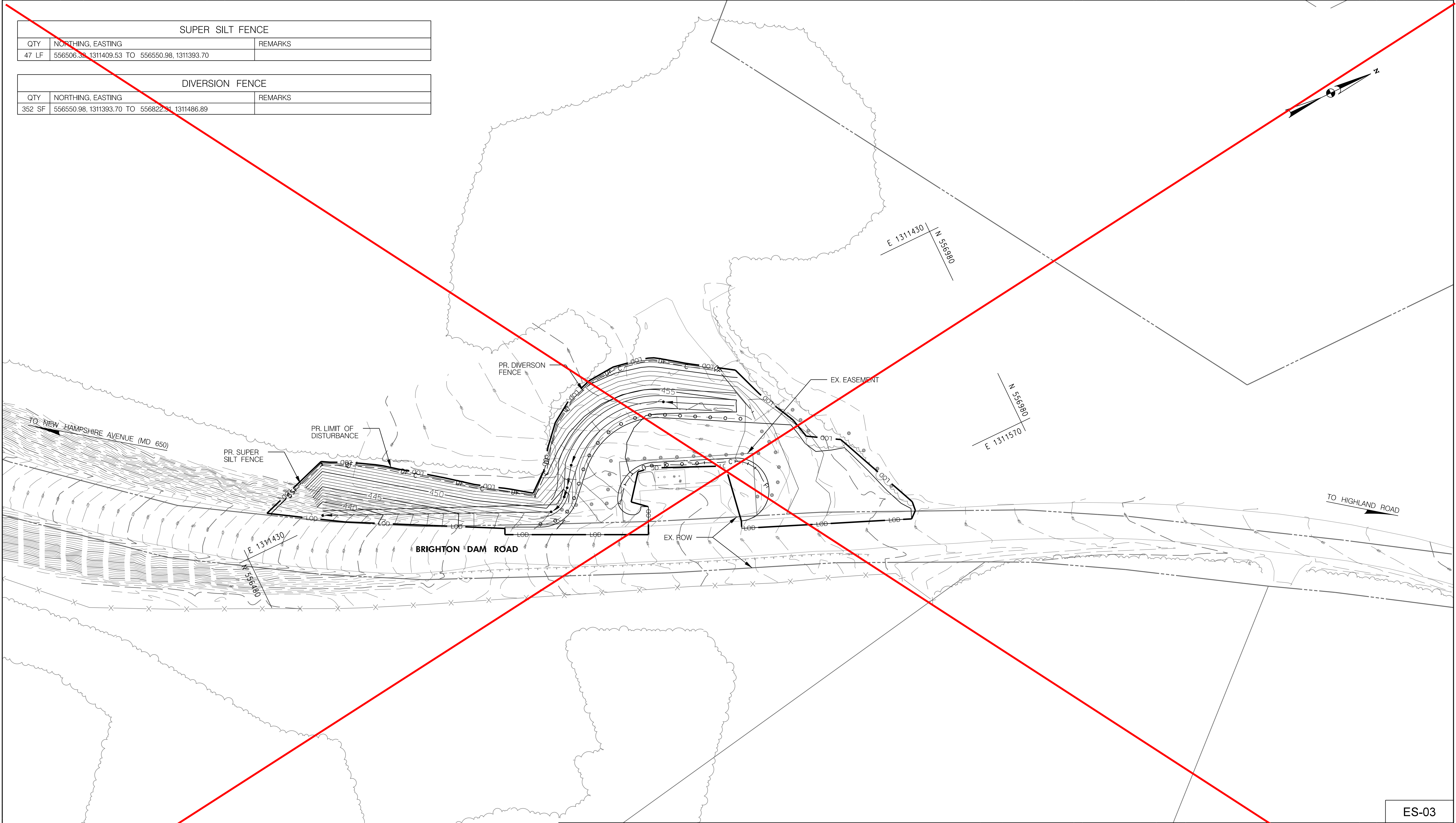
AT

1-800-257-7777

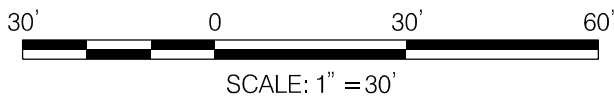
AT LEAST 48 HOURS PRIOR TO EXCAVATION
- PROFESSIONAL CERTIFICATION
- I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46328 EXPIRATION DATE 12-31-2022
-
- OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND
- CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221
- | | | | | |
|-----|----------|------|----|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| NO. | REVISION | DATE | BY | |
- MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND
- RECOMMENDED FOR APPROVAL
- Chief, Design Section
APPROVED
- Date
- Chief, Division of Transportation Engineering
- Date
- Designed by: DHM III Drawn by: DHM III Checked by: DL
- REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM
- EROSION AND SEDIMENT
CONTROL NOTES (1 OF 3)
- Project No. : 0501907 SHEET 7 of 38
- ES-01
- | STANDARD SYMBOLS | | |
|---|--|---|
| AT-GRADE INLET PROTECTION | | PERMANENT SOIL STABILIZATION MATTING-TYPE B |
| BAFFLE BOARDS | | PERMANENT SOIL STABILIZATION MATTING-TYPE C |
| BENCHING | | PIPE OUTLET SEDIMENT TRAP ST I |
| CATCH BASIN INSERT | | PIPE SLOPE DRAIN |
| CLEAR WATER DIVERSION PIPE | | PLUNGE POOL |
| CLEAR WATER PIPE | | PORTABLE SEDIMENT TANK |
| COMBINATION INLET PROTECTION | | REMOVABLE PUMPING STATION |
| CONCRETE WASHOUT STRUCTURE | | RIPRAP INFLOW PROTECTION |
| CURB INLET PROTECTION | | RIPRAP OUTLET SEDIMENT TRAP ST III |
| DIVERSION FENCE | | ROCK OUTLET PROTECTION I |
| EARTH DIKE | | ROCK OUTLET PROTECTION II |
| EMERGENCY SPILLWAY | | ROCK OUTLET PROTECTION III |
| FILTER BAG | | SILT FENCE |
| FILTER BERM | | SILT FENCE ON PAVEMENT |
| FILTER LOG | | SOD |
| GABION INFLOW PROTECTION | | STABILIZED CONSTRUCTION ENTRANCE (SCE) |
| GABION INLET PROTECTION | | STANDARD INLET PROTECTION |
| HORIZONTAL DRAW-DOWN DEVICE | | STOCKPILE AREA |
| LIMIT OF DISTURBANCE | | STONE CHECK DAM |
| MEDIAN INLET PROTECTION | | STONE/RIPRAP OUTLET SEDIMENT TRAP ST II |
| MEDIAN SUMP INLET PROTECTION | | SUBSURFACE DRAINS |
| MOUNTABLE BERM | | SUMP PIT |
| PERIMETER DIKE/SWALE | | SUPER SILT FENCE |
| TEMPORARY ACCESS BRIDGE | | |
| TEMPORARY ACCESS CULVERT | | |
| TEMPORARY ASPHALT BERM | | |
| TEMPORARY BARRIER DIVERSION | | |
| TEMPORARY GABION OUTLET STRUCTURE | | |
| TEMPORARY SOIL STABILIZATION MATTING-TYPE A | | |
| TEMPORARY SOIL STABILIZATION MATTING-TYPE E | | |
| TEMPORARY SOIL STABILIZATION MATTING-TYPE D | | |
| TEMPORARY STONE OUTLET STRUCTURE | | |
| TEMPORARY SWALE | | |
| VERTICAL DRAW-DOWN DEVICE | | |
| WASH RACK OPTION | | |
| CHESAPEAKE BAY CRITICAL AREA | | |
| DRAINAGE BOUNDARY | | |
| EXISTING CONTOURS | | |
| LIMIT OF DISTURBANCE (LOD) | | |
| PROPOSED CONTOURS | | |
| TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) | | |
| TREE PROTECTION FENCE | | |
| WETLAND | | |
| WETLAND BUFFER | | |
| 100-YEAR FLOODPLAIN | | |
| | | |

SUPER SILT FENCE		
QTY	NORTHING, EASTING	REMARKS
47 LF	556506.98, 1311409.53 TO 556550.98, 1311393.70	

DIVERSION FENCE		
QTY	NORTHING, EASTING	REMARKS
352 SF	556550.98, 1311393.70 TO 556822.91, 1311486.89	



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 46328 EXPIRATION DATE 12-31-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

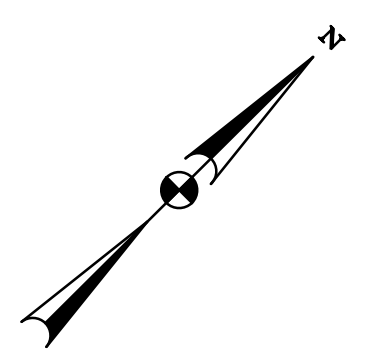
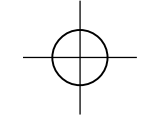
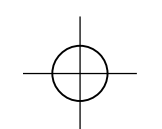
CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date
Chief, Division of Transportation Engineering	Date
Designed by: DHM III	Drawn by: DHM III
Checked by: DL	

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

**EROSION AND SEDIMENT
CONTROL PLAN (3 OF 3)**



N 556510
E 1311260

TRIADELPHIA
RESERVOIR

WASHINGTON SUBURBAN SANITARY COMMISSION

TO NEW HAMPSHIRE AVENUE (MD 650)

CONSTRICTION
BRIGHTON DAM ROAD

EX. ROW
LINE

BENCH MARK
STA. 58+99.7
15.7' LT.
BOX CUT IN
SIDEWALK
ELEV. 384.77

EX. RIPRAP

EX
S-2

EX
I-13

EX
I-14

EX
I-15

BM

EX. 18"

EX. 15"

EX. 18"

EX
I-10

EX
I-11

EX
I-12

I
I-17

I
I-16

PT 62+00.01

BRIGHTON DAM ROAD

EX. VALLEY GUTTER

EX. ROW
LINE

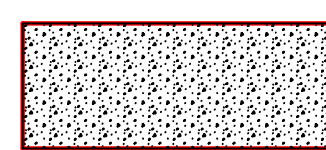
EX. VALLEY GUTTER

PATUXENT
RIVER

WASHINGTON SUBURBAN SANITARY COMMISSION

N 556030
E 1311260

LEGEND



PROP. SIDEWALK



PROP. MILL & OVERLAY



PROP. PAVEMENT



PROP. PIPE



PROP. INLET



EX. PIPE



EX. RIGHT OF WAY



EX. PROPERTY LINE



EX. BRIDGE DECK



EX. INLET



EX. RIPRAP

NOTE: CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY DEBRIS FROM THE EXISTING PIPES AND INLETS

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by: PJ. Drawn by: PJ. Checked by: KW.

REHABILITATION OF BRIDGE NO M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

STORM DRAIN PLAN VIEW

Project No.: 0501907 SHEET 10 of 38



PROFESSIONAL CERTIFICATION

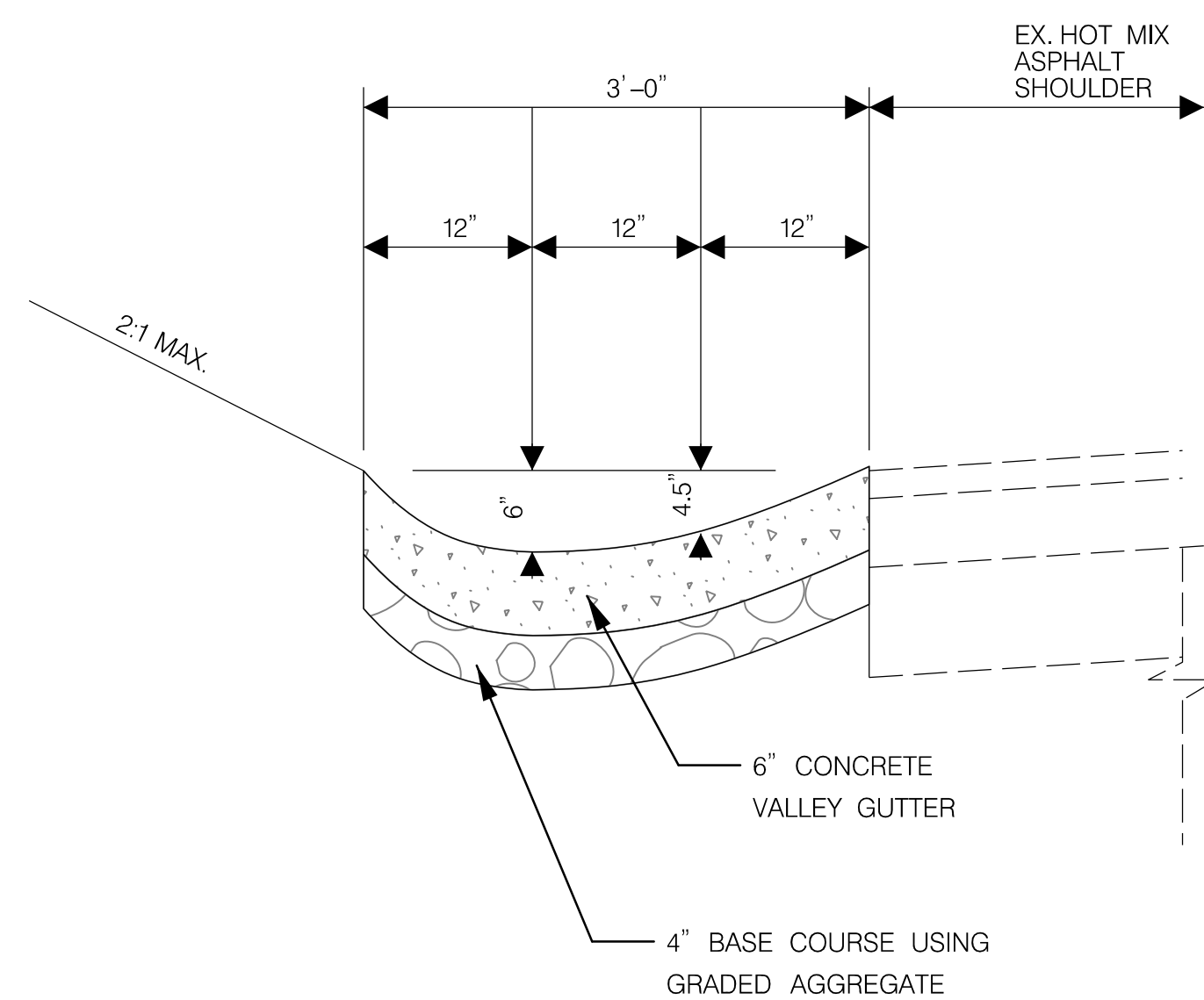
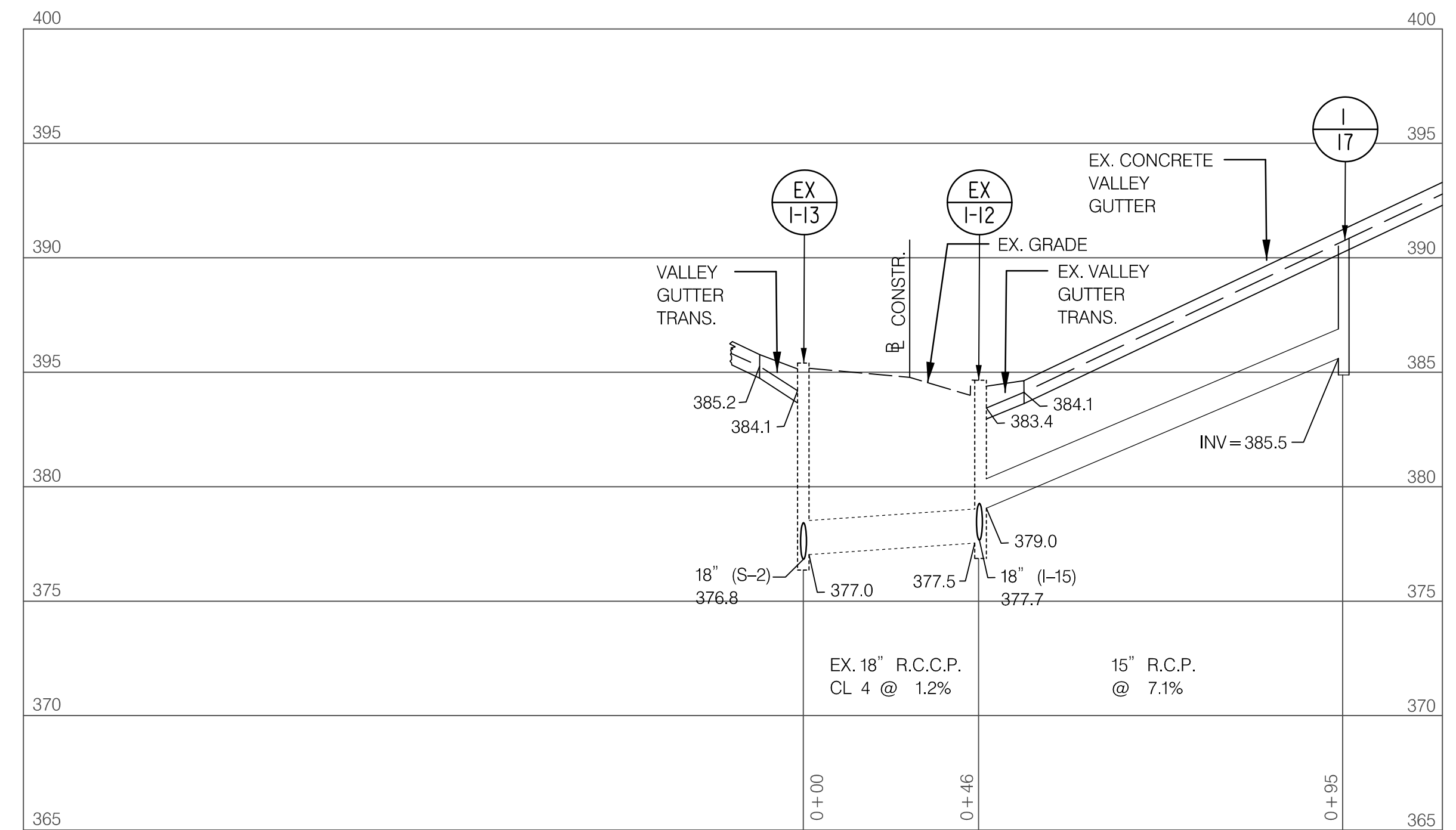
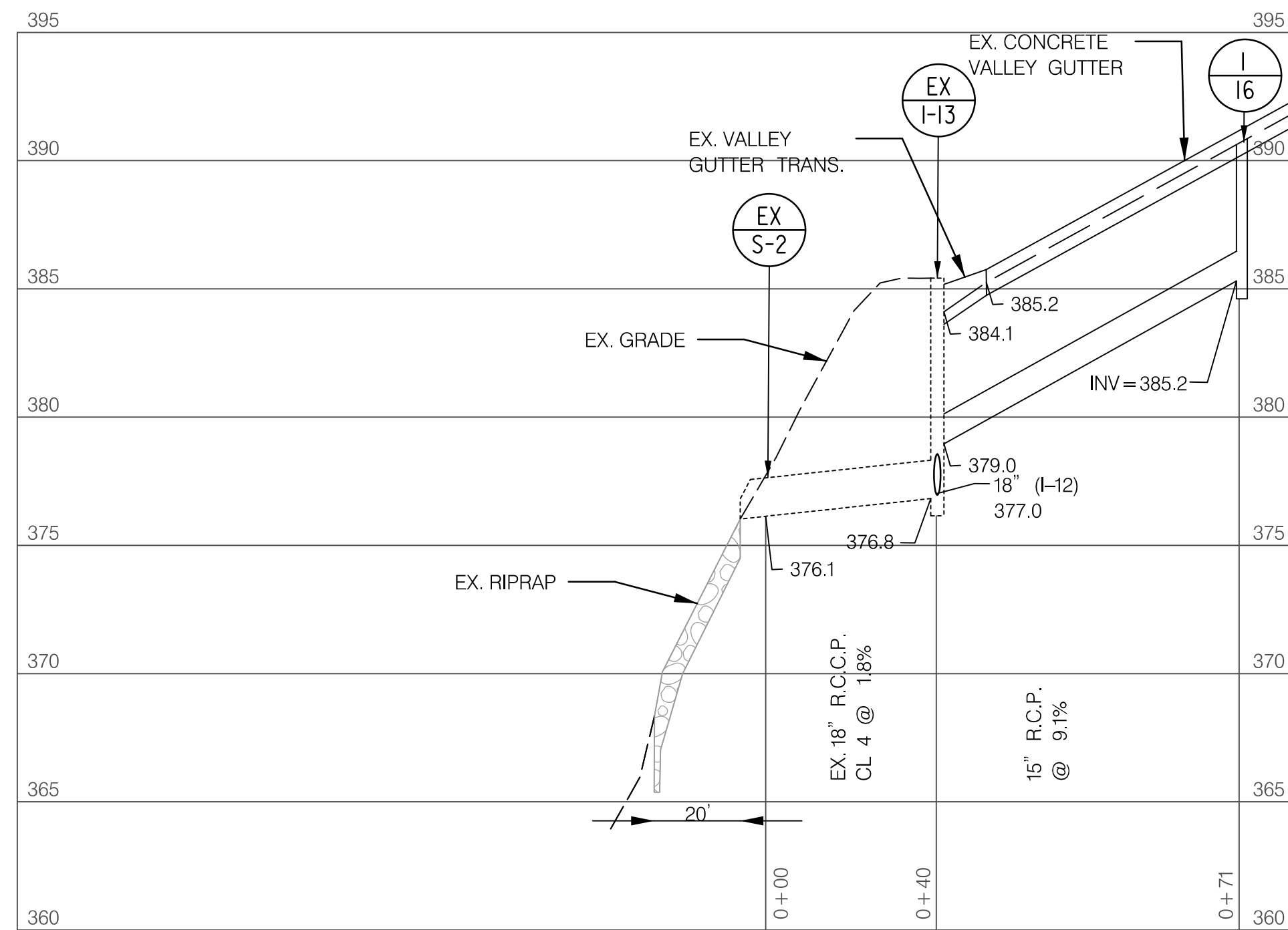
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 21157 EXPIRATION DATE 3-15-2024



30' 0 30' 60'
SCALE: 1" = 30'

03:02 PM Thursday, June 13, 2024 C:\Users\pjm02\OneDrive\Documents\Design\pjm02\BRIGHTONDam.dgn

MODELNAME:\$MODELNAME\$



NOTE:
1. CONCRETE VALLEY GUTTER SHALL MEET THE SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS OF CONCRETE COMBINATION CURB AND GUTTER.

CONCRETE VALLEY GUTTER DETAIL

SCALE: NTS

NOTE: CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY DEBRIS FROM THE EXISTING PIPES AND INLETS

STRUCTURE SCHEDULE						
NUMBER	LOCATION		TYPE	ELEVATION		STANDARD
	STATION	OFFSET		TOP	INVERT	
I-16	59+89	18 LT.	SINGLE OPENING K INLET	390.5	385.2	MD-378.03
I-17	59+89	16 RT.	SINGLE OPENING K INLET	390.5	385.5	MD-378.03

PIPE SCHEDULE		
LOCATION	SIZE	LENGTH
I-16 TO EX. I-13	15" RCP CL. 4	68 L.F.
I-17 TO EX. I-12	15" RCP CL. 4	92 L.F.



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 21157 EXPIRATION DATE 3-15-2024



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering Date

Designed by: PJ. Drawn by: PJ. Checked by: KW.

REHABILITATION OF BRIDGE NO M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

STORM DRAIN PROFILES, SCHEDULES AND DETAILS

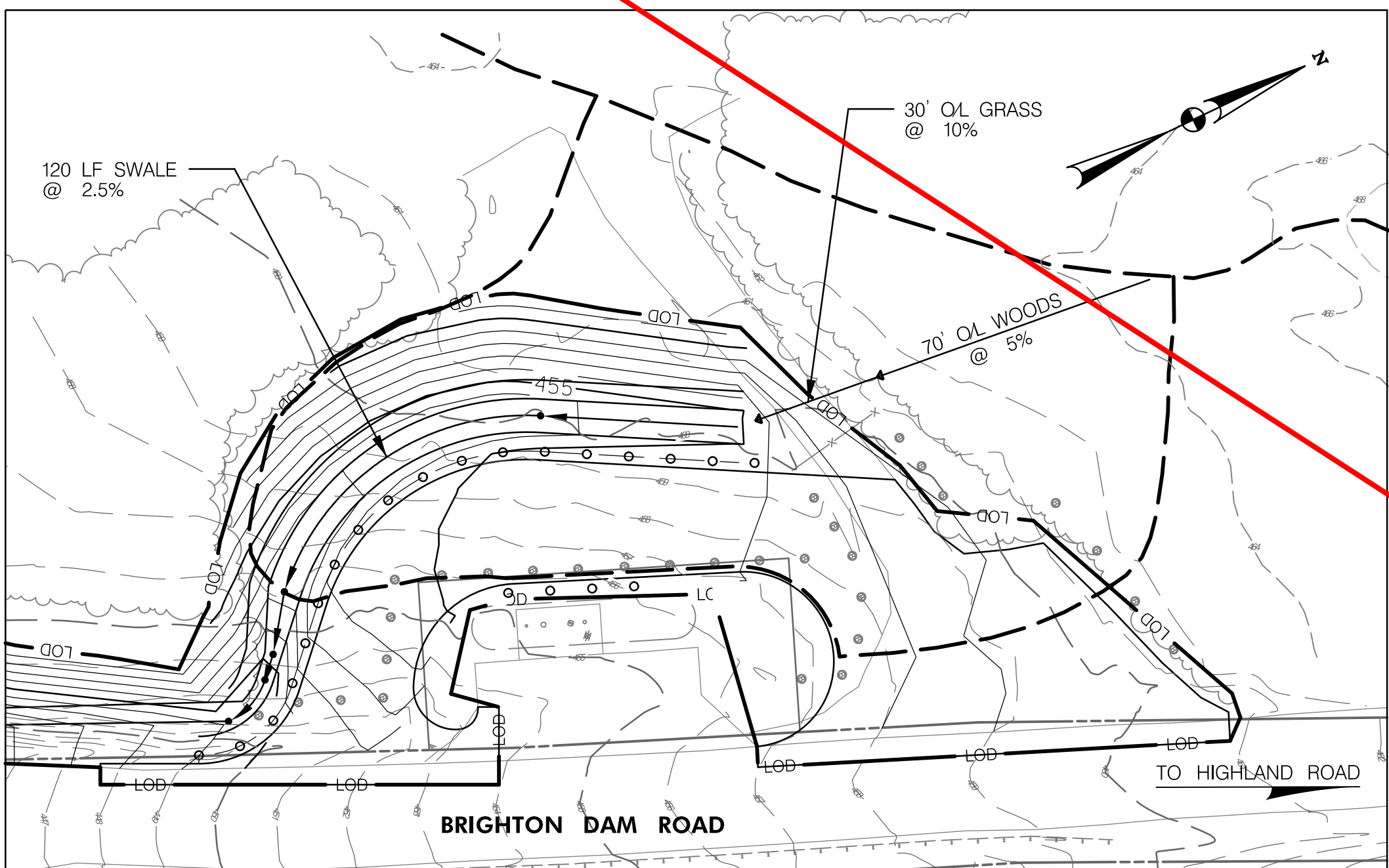
Project No. : 0501907 SHEET 12 of 38

W-03

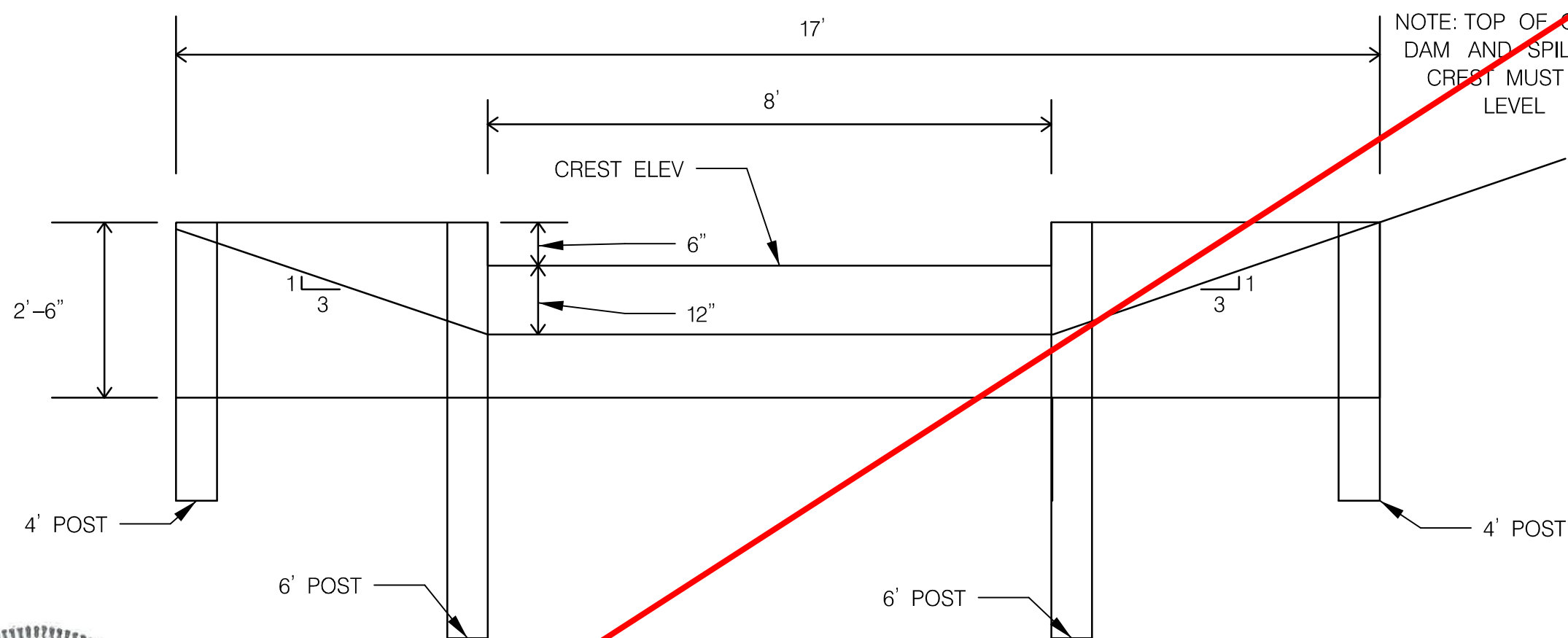
DA = 18,270 SQ.FT = 0.42 AC
IMP A = 6120 SQ.FT = 0.14 AC
B SOILS

0.12 AC WOODS
0.16 AC OPEN SPACE

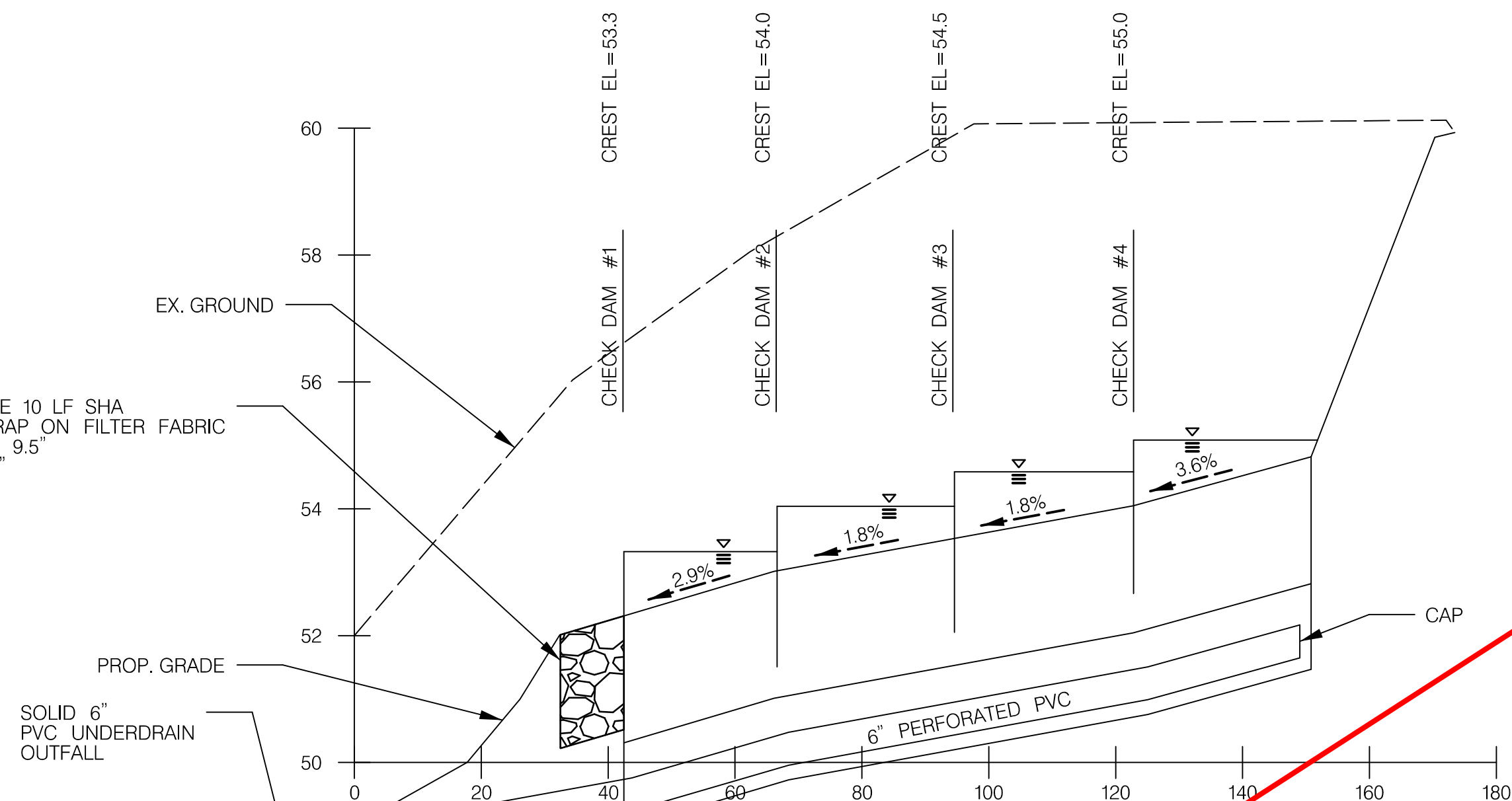
PROVIDE 10 LF SHA
CHIRIPRAP ON FILTER FABRIC
d50 = 9.5"
t = 21"



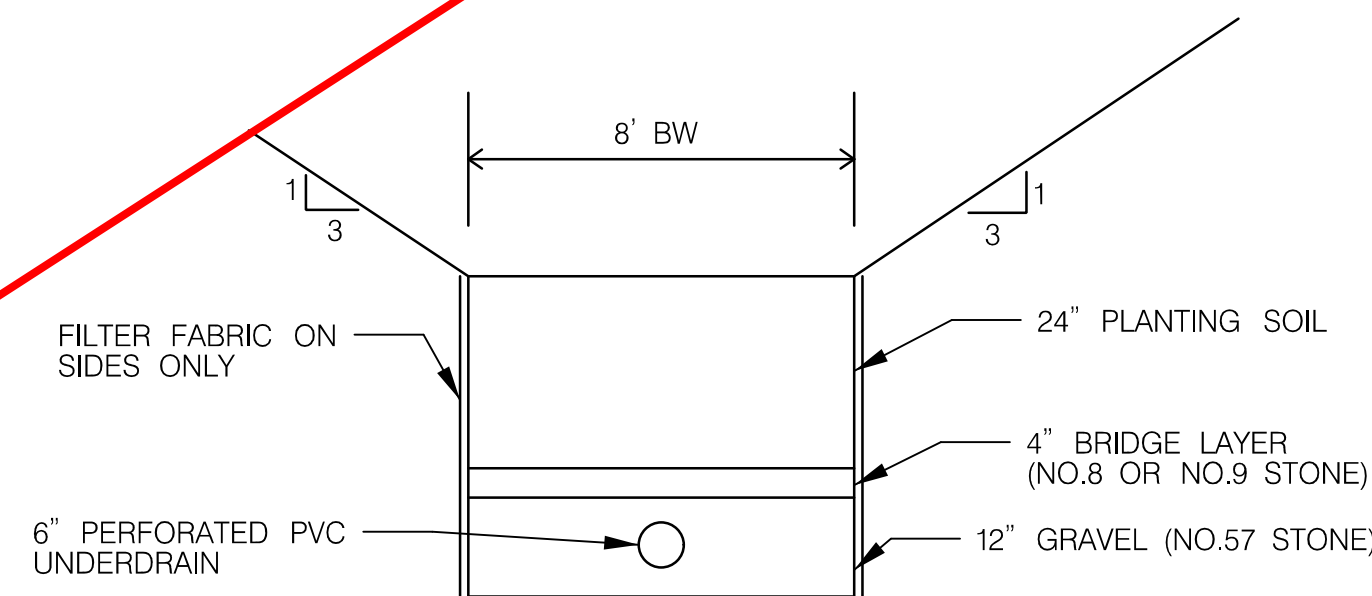
BIO-SWALE PROFILE
DRAINAGE AREA MAP
SCALE: 1" = 30'



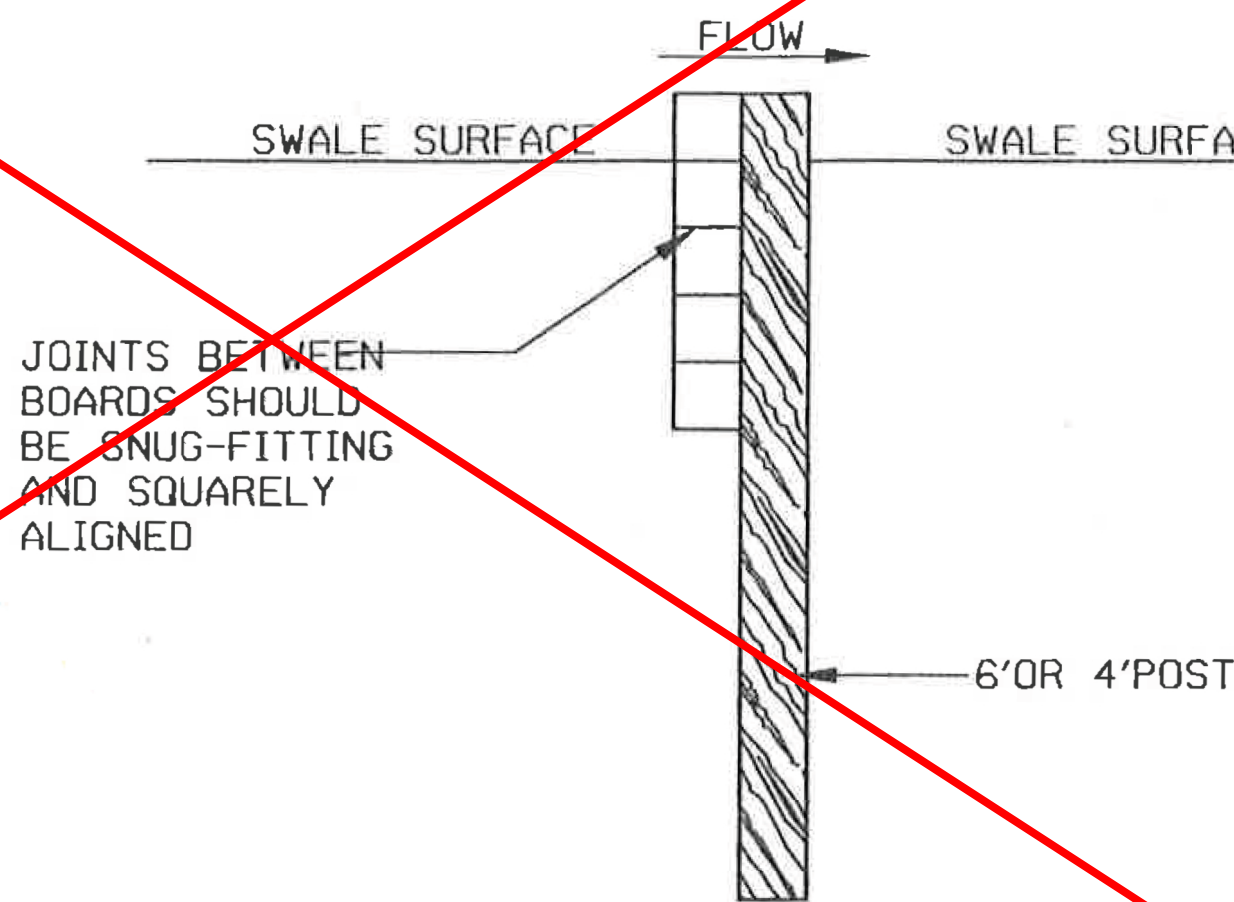
TIMBER CHECK DAM
SCALE: NTS



BIO-SWALE PROFILE
SCALE: V: 1" = 2' H: 1" = 20'



BIO-SWALE TYPICAL CROSS SECTION
SCALE: V: 1" = 2' H: 1" = 4'



TIMBER CHECK DAM SECTION
SCALE: 1" = 2'

NOTES:
TIMBERS: SHALL BE 6"x6" PRESSURE TREATED, SUITABLE FOR GROUND CONTACT, FREE OF ROT, DECAY, SPLITS, CHECKS, INDENTATIONS OR OTHER NATURAL OR MAN MADE CONDITIONS WHICH WOULD IMPARE THE STRENGTH OF THE MEMBER. THE STANDARD OF ACCEPTANCE SHALL BE VISUAL INSPECTION.

WORKMANSHIP: CUT OR TRIMMED TIMBERS SHALL BE BRUSH COATED WITH PRESERVATIVES.

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by: PJ. Drawn by: PJ. Checked by: KW.

REHABILITATION OF BRIDGE NO M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

STORMWATER MANAGEMENT DETAILS

Project No.: 0501907 SHEET 13 of 38



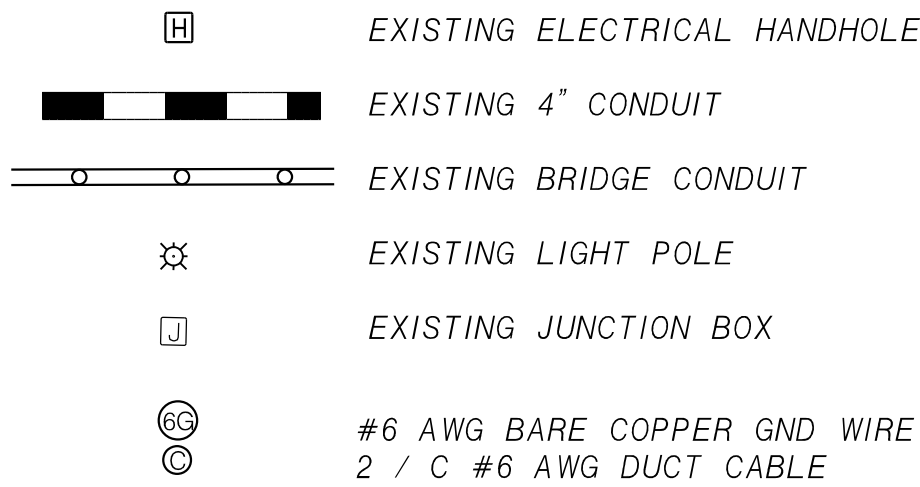
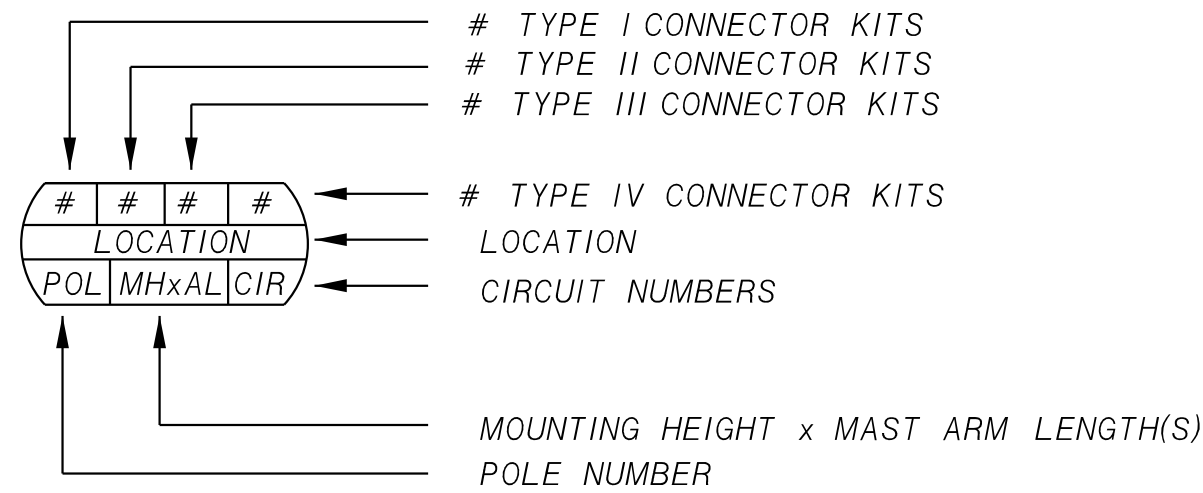
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 21157 EXPIRATION DATE 3-15-2024

30' 0 30' 60'
SCALE: 1" = 30'



LEGEND



TRIADELPHIA
RESERVOIR

N 555890
E 1310660

TO HIGHLAND ROAD

MATCH LINE STA. 55+00 - SEE SHEET LP-02

BRIGHTON DAM ROAD

CONSTRUCTION
BRIGHTON DAM ROAD

EX. ROW
LINE

PATUXENT
RIVER

30' 0 30' 60'
SCALE: 1" = 30'

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by: DHM III Drawn by: DHM III Checked by: DL

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM

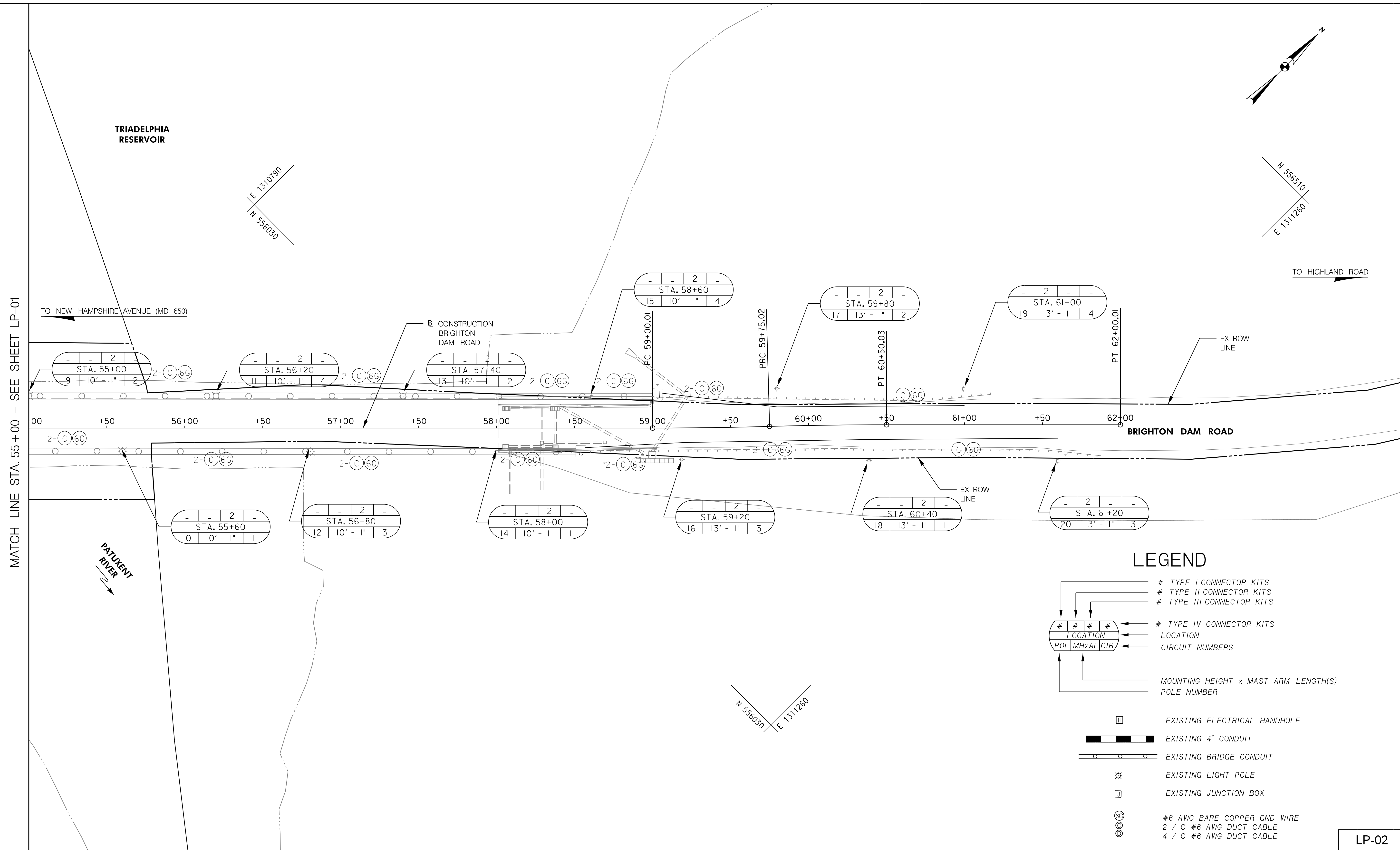
LIGHTING PLAN

Project No. : 0501907 SHEET 15 of 38

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17172 EXPIRATION DATE 12-12-2022





PROFESSIONAL CERTIFICATION

2/20/2022
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17172 EXPIRATION DATE 12-12-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

Designed by: DHM III Drawn by: DHM III Checked by: DL

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM

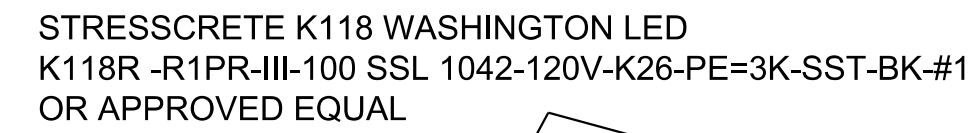
LIGHTING PLAN

Project No. : 0501907 SHEET 16 of 38

LP-02

2:36:23 PM
6/23/2022
\\us0525-pofss0\workgroup\2026\active\20262102\700 CAD00\Traffic\PLT-P002_Brighton0dm.dgn

1. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASE OF DAMAGE TO AN EXISTING FACILITY.
2. ALL CONNECTORS BETWEEN GROUND RODS AND GROUND CABLE SHALL BE BY EXOTHERMIC WELD.
3. CONDUCTORS SHALL NOT BE SPLICED EXCEPT IN STRUCTURES, MANHOLES AND PULL OR JUNCTION BOXES. ALL MANHOLES, CONDUITS UNDER PAVEMENTS, LIGHTING STRUCTURES, ETC., SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE.
4. ALL DRIVEN CONDUIT SHALL BE PLACED UNDER PAVEMENT BY DIRECTIONAL BORING OR JACKING.
5. ALL TRENCHING MUST BE BACKFILLED AND RESTORED TO ITS ORIGINAL CONDITION ON THE SAME WORKING DAY ON WHICH IT WAS OPENED. AREAS WHICH ARE NOT REDRESSED, MULCHED OR SODDED MUST BE COVERED TO PREVENT EROSION. ALL SOIL NOT USED FOR BACKFILL MUST BE REMOVED ON THE SAME WORKING DAY.
6. ALL SOIL REMOVED FOR HANDBOXES, FOUNDATIONS, ETC., MUST BE COVERED TO PREVENT EROSION. SOIL NOT USED FOR BACKFILL MUST BE DISPOSED OF TO THE ENGINEER'S SATISFACTION ON THE SAME WORKING DAY THE BACKFILL IS COMPLETED.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED LIGHTING EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. THE CONTRACTOR SHALL VERIFY ALL OPERATING VOLTAGES PRIOR TO ORDERING EQUIPMENT AND SHALL NOTIFY THE PROJECT ENGINEER IF A CONFLICT ARISES.
9. INSTALL PHOTOCCELL ON LUMINAIRE.
10. THE OPERATING VOLTAGE OF PROPOSED LUMINAIRES SHALL BE 240V.
11. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO ARRANGE FOR ELECTRICAL SERVICE CONNECTION.
12. CONTRACTOR MUST OBTAIN A LANE CLOSURE PERMIT FROM STATE HIGHWAY ADMINISTRATION, DISTRICT 1 TRAFFIC, A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO PERFORMING ANY WORK ON A STATE OWNED ROADWAY.
13. THE CONTRACTOR SHALL REFER TO MDSHA STANDARD NO. 104.02-01 FOR WORK ASSOCIATED WITH LIGHT POLE INSTALLATION.
14. AS-BUILT LIGHTING INVENTORY DATA SHALL BE PROVIDED TO THE ADMINISTRATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT THE COMPLETION OF THE BURN TEST. LIGHTING SYSTEMS WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL AS-BUILT LIGHTING INVENTORY DATA HAS BEEN RECEIVED BY THE ADMINISTRATION.



POLE MANUFACTURED BY
STRESSCRETE GROUP
TRADITIONAL FLUTED
KD13 E11 FBP
OR APPROVED EQUAL

POLE MANUFACTURED BY
STRESSCRETE GROUP
✓ TRADITIONAL FLUTED
KD10 E11 FBP
OR APPROVED EQUAL

BASE PLATE 14" SQUARE
/ 16" BOLT CIRCLE \

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering _____ Date _____

Designed by: DHM III Drawn by: DHM III Checked by: D

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM

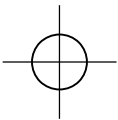
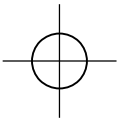
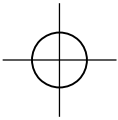
LIGHTING PLAN NOTES

Project No. : 0501907
SHEET 17 of 38

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17172 EXPIRATION DATE 12-12-2022





2:55:04 PM 6/23/2022 \\us0525-pdfs01\workgroup\2026\active\2026213\02\700 CADD\Traffic\pMT-NIOLBrightonDam.dgn

MAINTENANCE OF TRAFFIC REQUIREMENTS

1. THE CONTRACTOR SHALL REFER TO THE MONTGOMERY COUNTY TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN MONTGOMERY COUNTY TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN SECTION 6 OF THE 2011 "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MDMUTCD), MOST RECENT EDITION.
2. THE CONTRACTOR MUST HAVE A CERTIFIED TRAFFIC CONTROL MANAGER ON SITE DURING ALL PHASES OF INSPECTION AND CONSTRUCTION AT ALL TIMES.
3. EACH PHASE OF INSPECTION AND CONSTRUCTION, INCLUDING THE FOLLOW UP RESTORATION OPERATIONS, SHALL BE PROVIDED WITH APPROPRIATE WORK ZONE TRAFFIC CONTROLS.
4. ANY WORK SHALL BE RESTRICTED TO THE HOURS LISTED IN THE SPECIFICATIONS, MONDAY THROUGH FRIDAY. WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXEMPTION IS GRANTED IN WRITING BY THE COUNTY'S INSPECTOR.
5. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
6. EXCLUSIVE OF EMERGENCY WORK, THE CONTRACTOR SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
7. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE 2011 MDMUTCD. ALL SIGNS, TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD. TEMPORARY SIGNS SHALL BE FLUORESCENT ORANGE.
9. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON FLUORESCENT ORANGE BACKGROUND AND DIAMOND SHAPED. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED OR COVERED DURING NON-APPLICABLE PERIODS. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SIGNS IN GOOD CONDITION FOR THE DURATION OF THE PROJECT. ANY SIGNS THAT ARE DAMAGED BY THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL COVER ANY ADVANCE WARNING SIGNS THAT ARE NOT APPLICABLE DURING NON-WORKING HOURS AND UNCOVER WHEN APPLICABLE.
12. THE CONTRACTOR WILL NOT BE ALLOWED TO REMOVE OR DAMAGE ANY EXISTING LANDSCAPING UNLESS NOTED IN THE PLANS. ANY DAMAGED LANDSCAPING NOT AUTHORIZED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
13. IF ANY TEMPORARY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
14. DURING NON-WORK HOURS, THE CONTRACTOR SHALL ENSURE THAT THE BRIDGE IS INACCESSIBLE TO VEHICULAR, PEDESTRIAN AND CYCLIST TRAFFIC.
15. THE CONTRACTOR SHALL OBTAIN A TEMPORARY NOISE WAIVER FROM THE MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR ALL NIGHTTIME CONSTRUCTION ACTIVITIES.
16. NO CONSTRUCTION VEHICLES SHAL BE ALLOWED IN RESIDENTIAL STREETS.
17. ALL STAKEHOLDERS SHALL BE NOTIFIED PRIOR TO ROAD CLOSURE/CONSTRUCTION. ACCESS TO THE DRIVEWAY WEST OF THE BRIDGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TEMPORARY CLOSURE OF DRIVEWAY SHALL BE COORDINATED WITH THE PROJECT ENGINEER.
18. FINAL VARIABLE MESSGE SIGN(S) MESSAGES ARE TO BE DETERMINED BY THE PROJECT ENGINEER.
19. PVMS SHALL REMAIN IN STRATEGIC LOCATIONS DURING ROAD CLOSURE/CONSTRUCTION WITH ADVANCE WARNING MESSAGE TO MOTORISTS.
20. FIXED BARRICADES SHALL EXTEND THE FULL WIDTH OF THE ROADWAY CLOSURE POINTS AND SHALL HAVE FLASHING WARNING LIGHTS.
21. TRAFFIC CONTROL DEVICES MUST BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MD MUTCD AND THE MD SHA BOOK OF STANDARDS.
22. ALL WARNING SIGNS NOT IN USE SHALL BE FULLY COVERED WITH OPAQUE MATERIAL.

INSPECTOR AUTHORITY

1. THE COUNTY'S DEPARTMENT OF PERMITTING SERVICES (DPS) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE CONTRACTOR TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH.
2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

MISCELLANEOUS

1. HAZARDOUS MATERIALS SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF AN OPEN SECTION ROADWAY.
2. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

CONTACT INFORMATION

1. THE PROJECT MANAGER AND CONTRACTOR SHALL COORDINATE WITH HOWARD COUNTY DPW – PUBLIC INFORMATION OFFICE AT 410-313-3440 AT LEAST THREE WEEKS PRIOR TO PROJECT START TO ADVISE OF PROPOSED DETOUR.
2. THE CONTRACTOR SHALL ARRANGE AND HOST A PRE-PHASE TRAFFIC SWITCH MEETING AT LEAST TWO WEEKS PRIOR TO SWITCHING TRAFFIC. THE FOLLOWING OFFICES SHALL BE NOTIFIED OF THIS MEETING AND OF THE IMPENDING TRAFFIC SWITCH:
- * MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
 - * MONTGOMERY COUNTY TRANSPORTATION SYSTEMS ENGINEERING TEAM AT 240-777-2100
 - * MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
 - * MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
 - * MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES, PERMIT INSPECTION SECTION AT 240-777-6300
 - * HOWARD COUNTY TRAFFIC ENGINEERING DIVISION AT 410-313-2430
 - * HOWARD COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER
 - * HOWARD COUNTY POLICE, LOCAL SERGEANT
 - * HOWARD COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
3. PRIOR TO ROAD CLOSURES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING OFFICES A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE:
- * MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
 - * MONTGOMERY COUNTY EMERGENCY OPERATIONS CENTER AT 240-777-0751
 - * MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
 - * MONTGOMERY COUNTY TRANSPORTATION MANAGEMENT CENTER AT 240-777-2100
 - * MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
 - * HOWARD COUNTY TRAFFIC ENGINEERING DIVISION AT 410-313-2430
 - * HOWARD COUNTY EMERGENCY SERVICE BUREAU AT 410-313-6000
 - * HOWARD COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER
 - * HOWARD COUNTY POLICE, LOCAL SERGEANT
 - * HOWARD COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
4. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING & OPERATIONS SECTION AT 240-777-6000.

SEQUENCE OF CONSTRUCTION FOR MAINTENANCE OF TRAFFIC

1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR FLAGGING OPERATIONS FOR CONSTRUCTION OF PERMANENT TURNAROUND ON EAST END OF THE DAM.
2. CONSTRUCT PERMANENT TURNAROUND ON EAST END OF THE DAM.
3. INSTALL PORTABLE VARIABLE MESSAGE SIGN (PVMS) 2 WEEKS BEFORE ROAD CLOSURE IN ACCORDANCE WITH MD STD 104.01-22.
4. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR DETOUR AND CLOSE BRIGHTON DAM ROAD. ADJUST ALL PVMS TO LOCATION AS DETERMINED BY THE ENGINEER.
5. CONSTRUCT IMPROVEMENTS FOR ROADWAY AND BRIDGE.
6. AFTER COMPLETING THE CONSTRUCTION OF THE ROADWAY AND BRIDGE, REMOVE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND OPEN BRIGHTON DAM ROAD.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 17172 EXPIRATION DATE 12-12-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY	

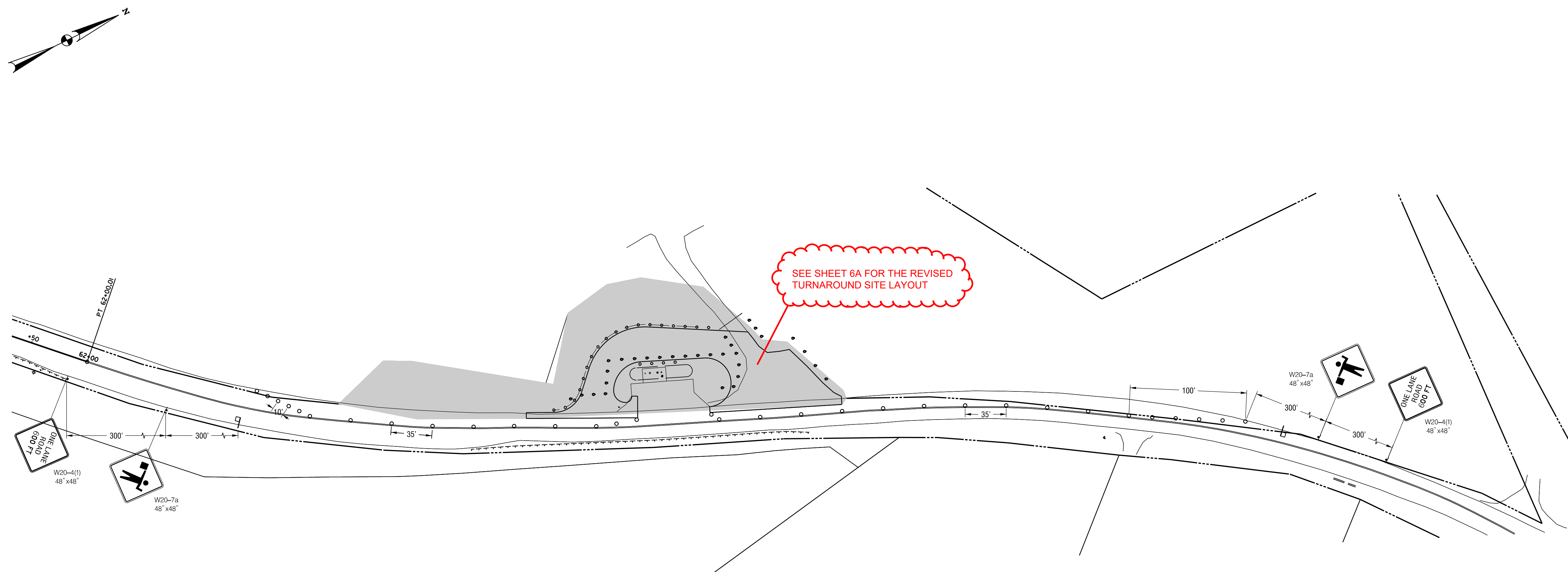
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section APPROVED		Date	
Chief, Division of Transportation Engineering		Date	
Designed by:	RB	Drawn by:	JC
Checked by:	RM		

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM


MAINTENANCE OF TRAFFIC
NOTES

Project No. : 0501907 SHEET 18 of 38

MT-01



SEE SHEET 6A FOR THE REVISED
TURNAROUND SITE LAYOUT



W20-7a
48" x 48"

W20-7.
48" x 48"

W20-7
48" x 48"

W20-4(1)
48" x 48"

W20-4(1)
48" x 48"

LEGEND

EXISTING SIGN AND SUPPORT	PROPOSED SIGN AND SUPPORT

_____ EX. RIGHT OF WAY

DRUMS

1

FLAGGER

MT-02

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

	RECOMMENDED FOR APPROVAL
--	--------------------------

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

De

ed by:

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM

MAINTENANCE OF TRAFFIC NOTES

Project No. : 0501907 SHEET 19 of 38

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17172 EXPIRATION DATE 12-12-2022



3:07:35 PM
6/23/2022
\\us0525-prfss0\workgroup\2026\active\202621302\700_CADD\Traffic\pMT-P201_BrightonDam.dgn

MODELNAME:\$MODELNAME\$

3:01:35 PM
6/23/2022
\\us0525-pdfs01\workgroup\2026\active\202621302\700_CADD\Traffic\PMT-P101-BrightonDam.dgn



GENERAL NOTES
REFER TO SHEET MT-01 FOR ALL NOTES.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17172 EXPIRATION DATE 12-12-2022



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

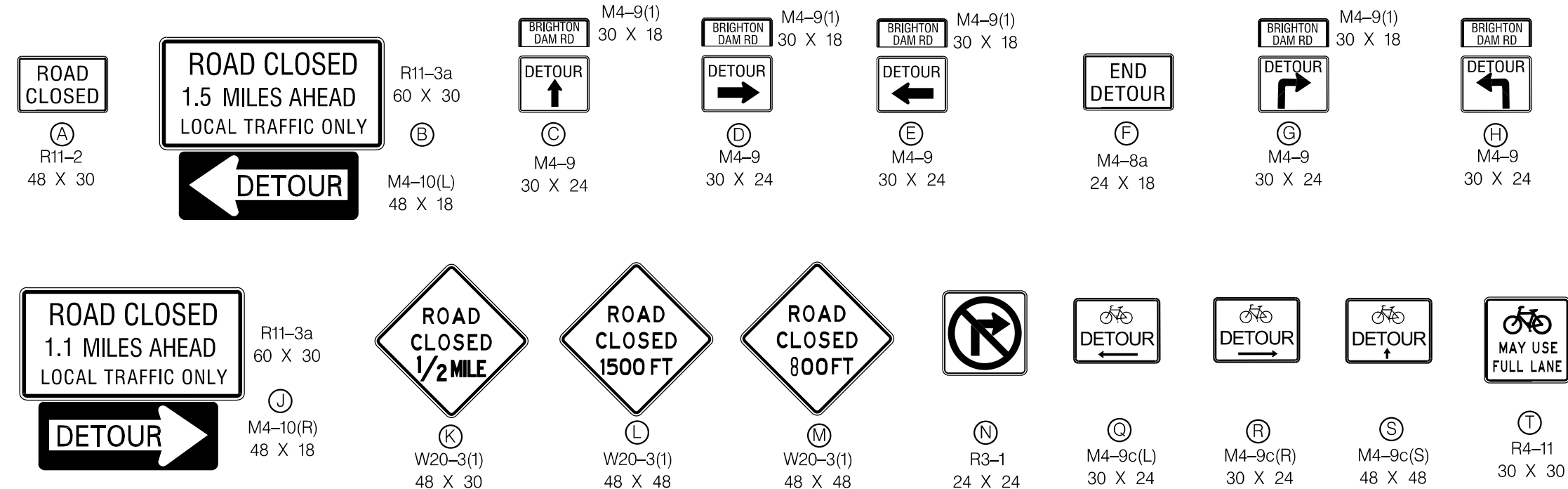
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by:	RB	Drawn by:	JC
Checked by:	RM		

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD
OVER BRIGHTON DAM

DETOUR PLAN

Project No. : 0501907 SHEET 20 of 38



TEMPORARY TRAFFIC CONTROL SIGN TABLE		
MESSAGE	BACKGROUND	LEGEND

DETOUR LENGTH APPROX 9 MILES
DETOUR DURATION APPROX 12 WEEKS



DETAIL A

ROAD CLOSED AT DAM	MESSAGE 1
ON OR ABOUT XX-XX-XX	MESSAGE 2

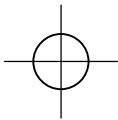
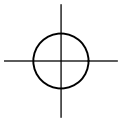
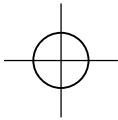
LEGEND

- PORTABLE VARIABLE MESSAGE SIGN
- TYPE III BARRICADE
- SIGN LOCATION
- WORK AREA
- VEHICULAR DETOUR ROUTE
- BICYCLE DETOUR ROUTE
- TRAFFIC FLOW

30,000 GAL TEMPORARY WATER TANK

MONTGOMERY COUNTY SCHOOL BUS TURNAROUND

MT-03



3/20/04 PM
6/22/2022
P:\Projects\2025\2025.04 Brighton Dam\10 CAD\Structures\pBR-GN00.BrightonDamRdBridge.dgn

GENERAL NOTES

STANDARDS AND SPECIFICATIONS: MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", DATED 2021 AND ALL REVISIONS THEREOF AND ADDITIONS THERETO.

THE LATEST "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MD MUTCD) FROM MDOT STATE HIGHWAY ADMINISTRATION.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION, 2020

PERFORM WELDING IN ACCORDANCE WITH AASHTO/AWS/D1.5:2010 BRIDGE WELDING CODE, 6TH EDITION, WITH 2020 SHA STANDARD SPECIFICATIONS

MATERIAL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. ONLY GRADE 60 CAN BE USED ON THE PROJECT. ALL REINFORCING STEEL SHALL BE EPOXY COATED.

FOR REPAIRING SPALLS AND CRACKS, SEE SPECIAL PROVISION 400.01 & 400.02. ALL MATERIALS AND SOURCE OF SUPPLY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

EXISTING UTILITIES: WHERE WORK AFFECTS OR IS AFFECTED BY EXISTING UTILITIES, THE WORK SHALL BE CORRINATED WITH THAT UTILITY COMPANY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE INSTALLATIONS IN THE WORK AREA PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SCOUT AND NOTIFY THE ENGINEER 90 DAYS IN ADVANCE OF ANY WORK REQUIRING THE TEMPORARY RELOCATION OF THIRD PARTY UTILITY.

REPAIRS

APPROXIMATE LOCATIONS ARE SHOWN IN THE REPAIR WORK SCHEDULE TABLES. THESE LOCATIONS ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE EXACT. IF ADDITIONAL REPAIR LOCATIONS ARE FOUND, THEY SHOULD BE INCLUDED IN THIS CONTRACT WITH THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND REPAIR LOCATIONS IN THE FIELD PRIOR TO ORDERING MATERIALS, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS WITH THE DETAILS.

DAMAGE TO EXISTING FACILITIES AND STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR METHOD OF OPERATIONS SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.

CLEAN EXPOSED MILD STEEL REINFORCEMENT IN ACCORDANCE WITH SHA STANDARD SPECIFICATION SECTION 423.03.04. COAT EXISTING REINFORCING STEEL WITH APPROVED EPOXY. PROTECT CONCRETE WITH TAPE, PLASTIC, ETC. PRIOR TO APPLYING COATING AS NEEDED. ANY EPOXY MATERIAL ON ADJACENT CONCRETE SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER.

ALL CONSTRUCTION SHALL BE ACCOMPLISHED WITHIN EXISTING RIGHT OF WAY OR EASEMENTS OBTAINED BY COUNTY OR THE CONTRACTOR.

SALVAGE DEBRIS: SALVAGED STEEL AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS IN CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS AND REGULATIONS. THE COST FOR DISPOSING OF SALVAGED STEEL AND OTHER DEBRIS WILL BE INCIDENTAL TO THE CONTRACT.

AS-BUILT INFORMATION: A MAJORITY OF THE INFORMATION FOR THE EXISTING STRUCTURES IN THE FOLLOWING PLANS IS FROM THE 2000 AS-BUILT PLANS. THE DETAILS SHOWN IN THESE PLANS MAY NOT BE TO SCALE. THIS INFORMATION SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

REPAIR WORK SCHEDULE		
REPAIR TYPE	DESCRIPTION	LOCATION
1	DRAINAGE TROUGH INSTALLATION	ODD NUMBERED BUTTRESSES ABOVE DAM GATES AND STAIRS
2	CONCRETE CRACK REPAIR	BEAMS, PARAPETS, AND ABUTMENT BACKWALLS
3	CONCRETE SPALL REPAIR	BEAMS, PARAPETS, DECK, AND ABUTMENT BACKWALLS
4	APPLY CONCRETE CRACK SEALER	ALL DECK, CURB, AND SIDEWALK AREAS
5	TYPE 1 PARAPET REPAIR	PARAPETS WITHOUT SPALLING ON PILASTERS
6	TYPE 2 PARAPET REPAIR	PARAPETS WITH SPALLING ON PILASTERS
7	TYPE 3 PARAPET REPAIR	PILASTERS WITH LIGHT POLE
8	TYPE 4 PARAPET REPAIR	PILASTERS WITH LIGHT POLE AND FENCE
9	JOINT SEAL REPLACEMENT	ODD NUMBERED BUTTRESSES
10	DOWNSPOUT INSTALLATION	BUTTRESS NO. II

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY	

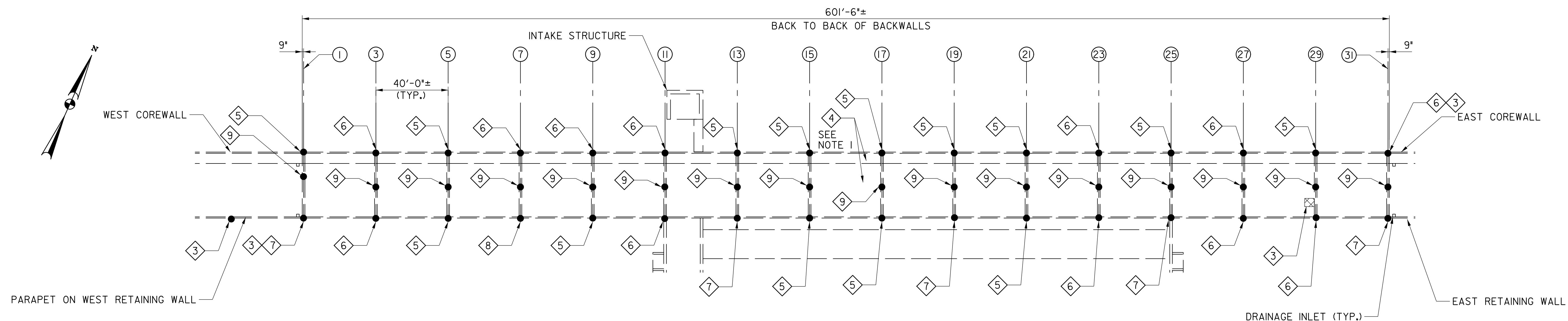
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date
Chief, Division of Transportation Engineering	Date
Designed by: TK	Drawn by: ZK
Checked by: MMM	

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

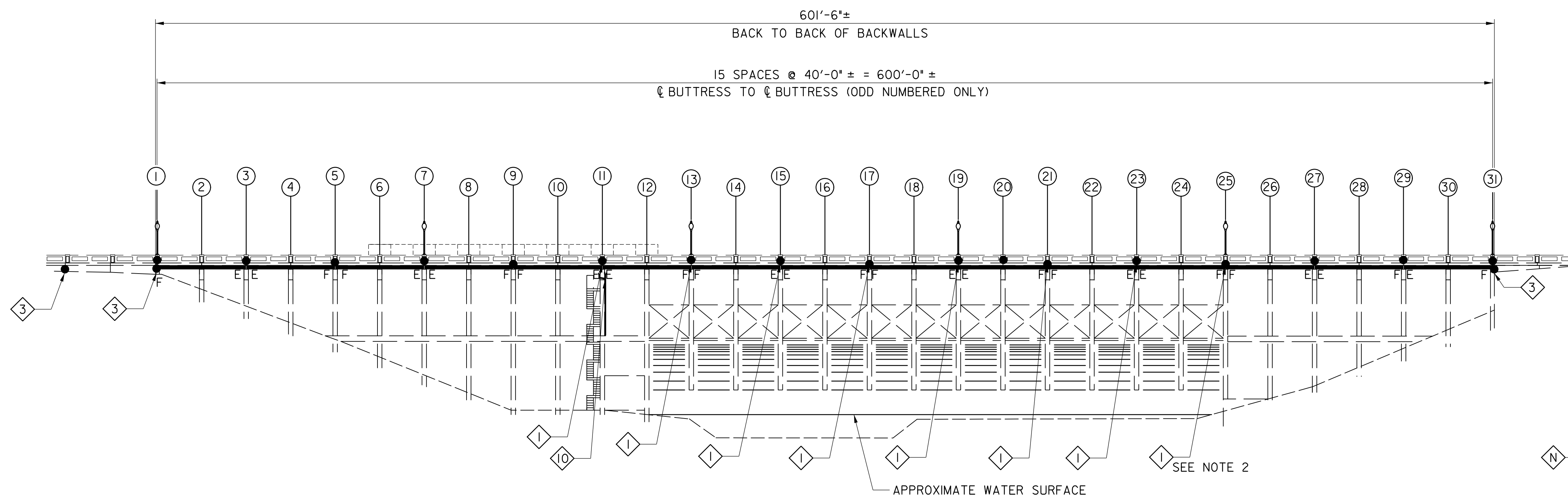
GENERAL NOTES

Project No. : 0501907 SHEET 21 of 38

S-01



PLAN
SCALE: 1" = 30'-0"








ELEVATION
SCALE: 1" = 30'-0"

NOTES:

1. FOR REPAIR TYPE 4, CONCRETE DECK SEALER SHALL BE APPLIED TO ENTIRE SURFACE OF BRIDGE DECK, CURBS, AND SIDEWALK.
2. FOR REPAIR TYPE 1, NO DRAINAGE TROUGH IS NEEDED ON THE EAST SIDE OF BUTTRESS 25.

LEGEND:

- | | |
|---|---------------------------|
|  | REPAIR LOCATION |
|  | REPAIR TYPE CALLOUT |
|  | CRACK IN CONCRETE SURFACE |
|  | LIMITS OF REPAIR |
|  | BUTTRESS NUMBER |

S-02

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Date

Chief, Division of Transportation Engineering

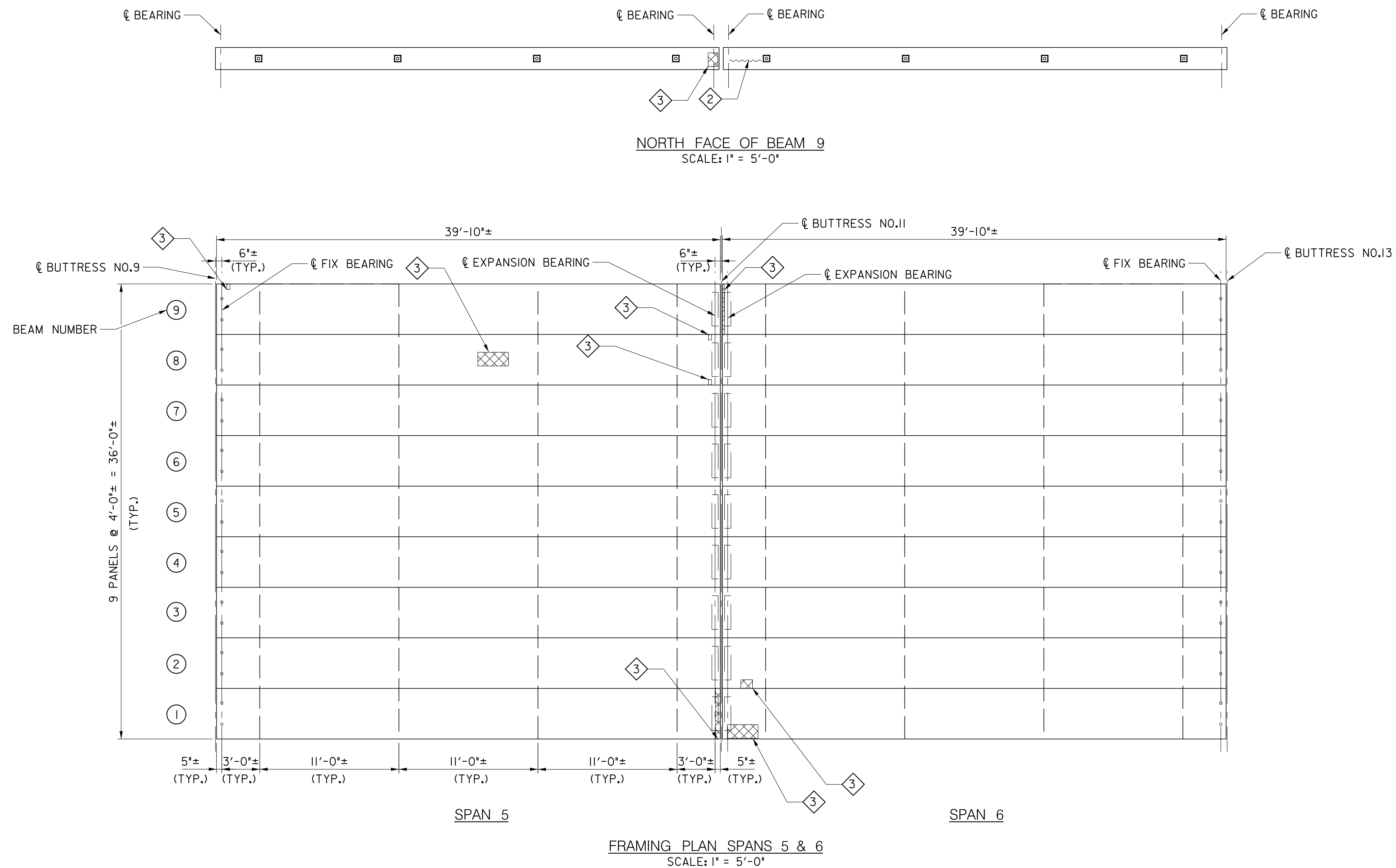
Designed by:	TK	Drawn by:	ZK	Checked by:	M
--------------	----	-----------	----	-------------	---





REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

GENERAL PLAN AND ELEVATION

Project No. : 0501907 SHEET 22 of 38

S-04

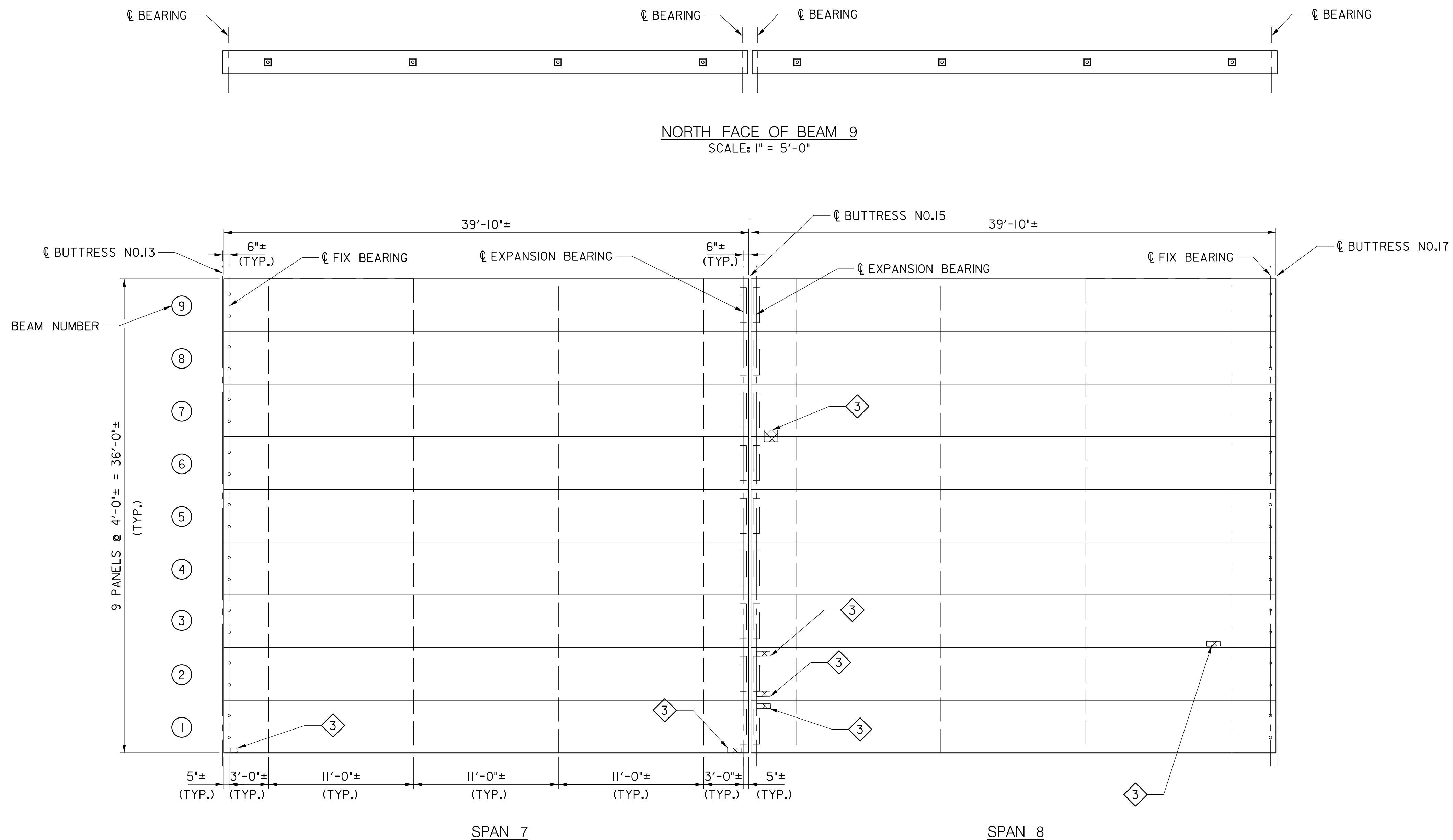


 REPAIR LOCATION
 REPAIR TYPE CALLOUT
 CRACK IN CONCRETE SURFACE
 LIMITS OF REPAIR

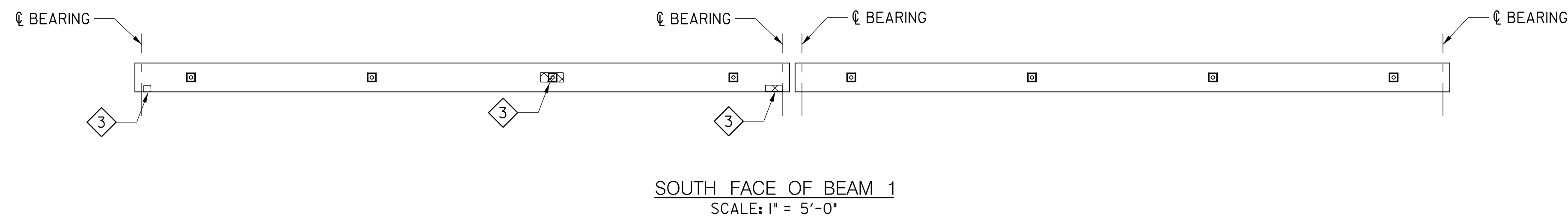


MERCADO
CONSULTANTS, INC.

[illegible]



FRAMING PLAN SPANS 7 & 8
SCALE: 1" = 5'-0"



SOUTH FACE OF BEAM 1
SCALE: 1" = 5'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering

Designed by: TK Drawn by: ZK Checked by: MWM

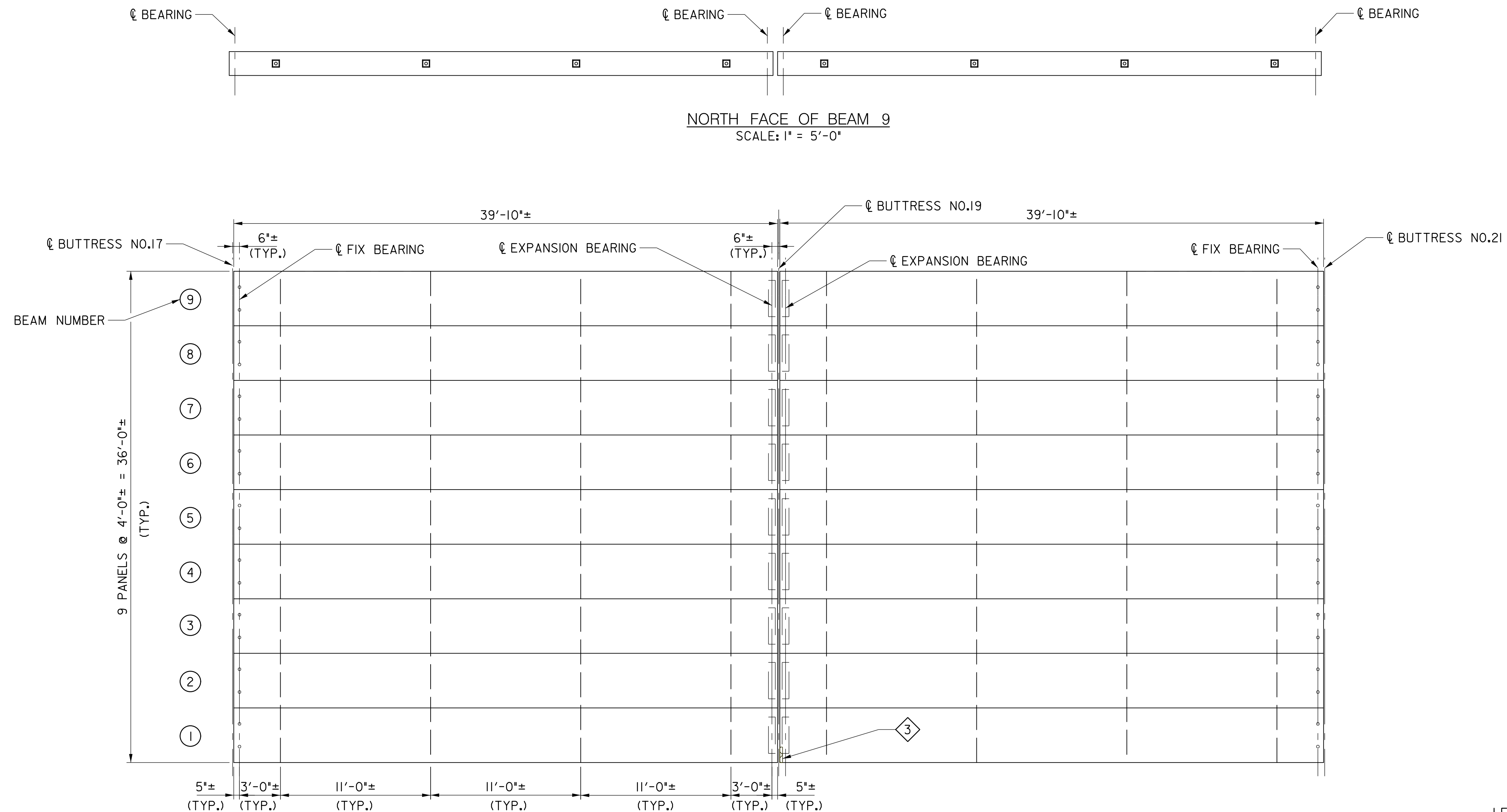
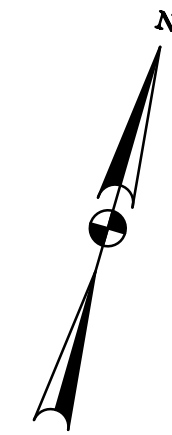
REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

SPANS 7 AND 8 FRAMING PLAN

Project No. : 0501907 SHEET 26 of 38

S-06

3:20:07 PM
6/22/2022
P:\Projects\2025\2025.04 Brighton Dam\10 CADD\Structures\pBR-FR03.BrightonDamRdBridge.dgn



LEGEND:

- REPAIR LOCATION
- ↗ REPAIR TYPE CALLOUT
- ~~~~~ CRACK IN CONCRETE SURFACE
- ▨ LIMITS OF REPAIR

FRAMING PLAN SPANS 9 & 10
SCALE: 1" = 5'-0"

SOUTH FACE OF BEAM 1
SCALE: 1" = 5'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

Date _____

Chief, Division of Transportation Engineering Date

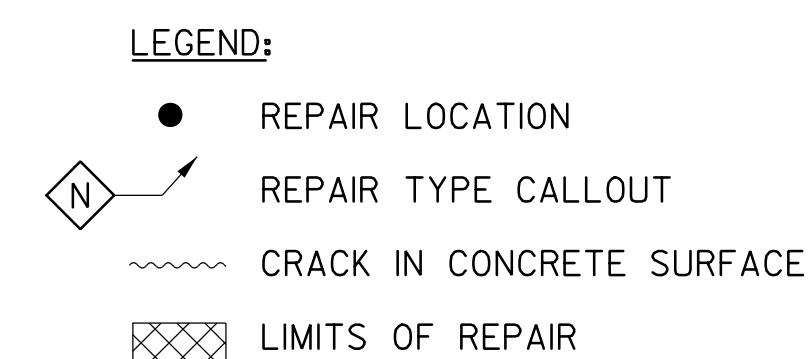
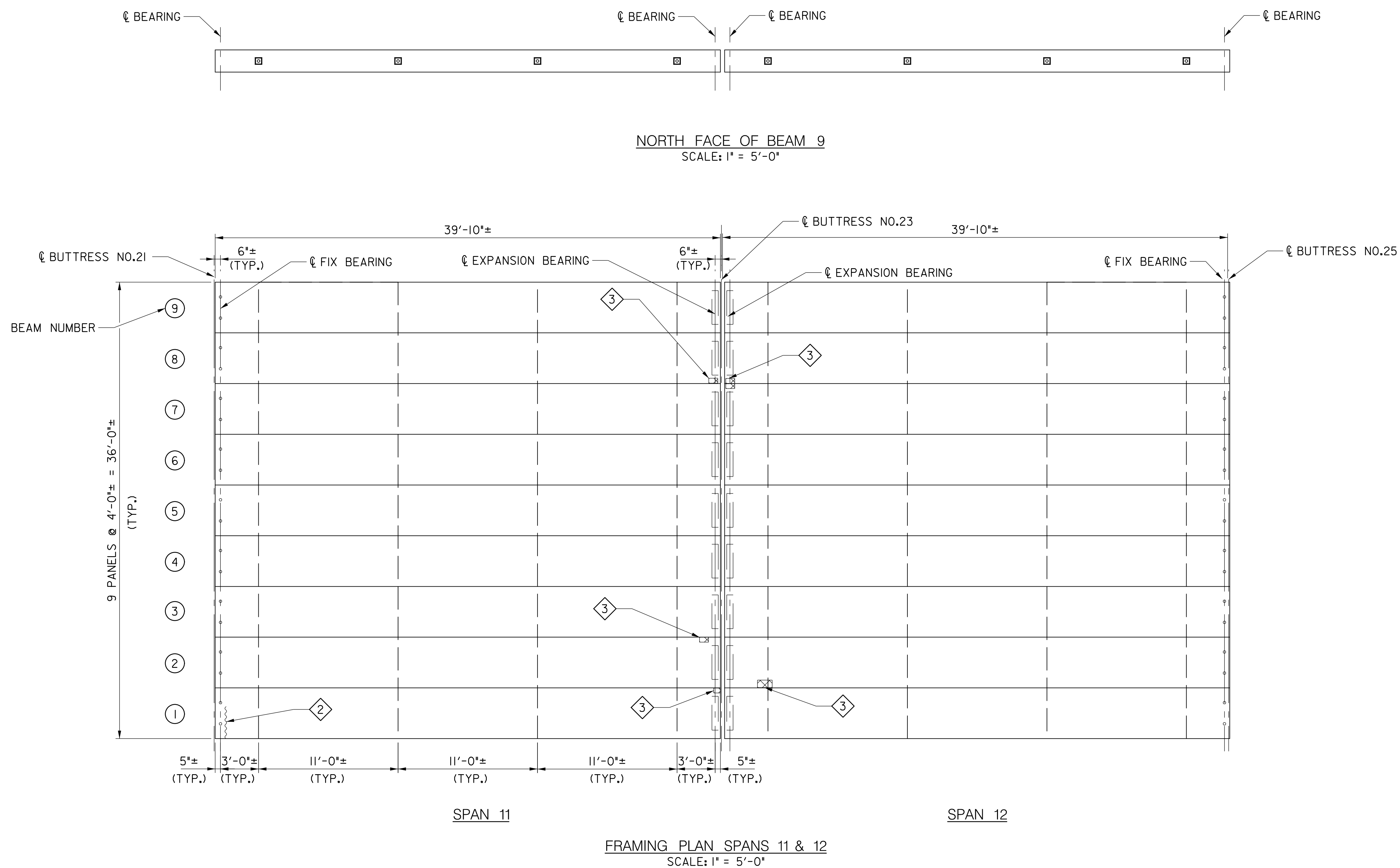
Date _____

Designed by: TK Drawn by: ZK Checked by: MW

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

SPANS 9 AND 10 FRAMING PLAN

Project No. : 0501907 SHEET 27 of 38



S-08

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by:

TK

Drawn by

7K

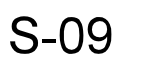
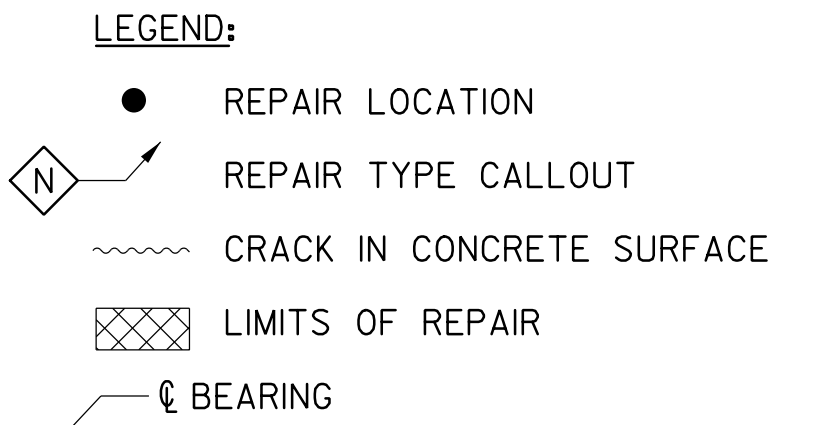
Checked

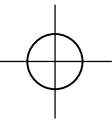
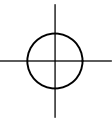
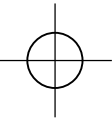
by MWM

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

SPANS 11 AND 12 FRAMING PLAN

Project No. : 0501907 SHEET 28 of 38





3:20:40 PM
6/22/2022
P:\Projects\2025\2025.04 Brighton Dam\10 CAD\Structures\pBR-JT00_BrightonDamRdBridge.dgn

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. **38931** EXPIRATION DATE **12-22-2023**



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY		

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Transportation Engineering

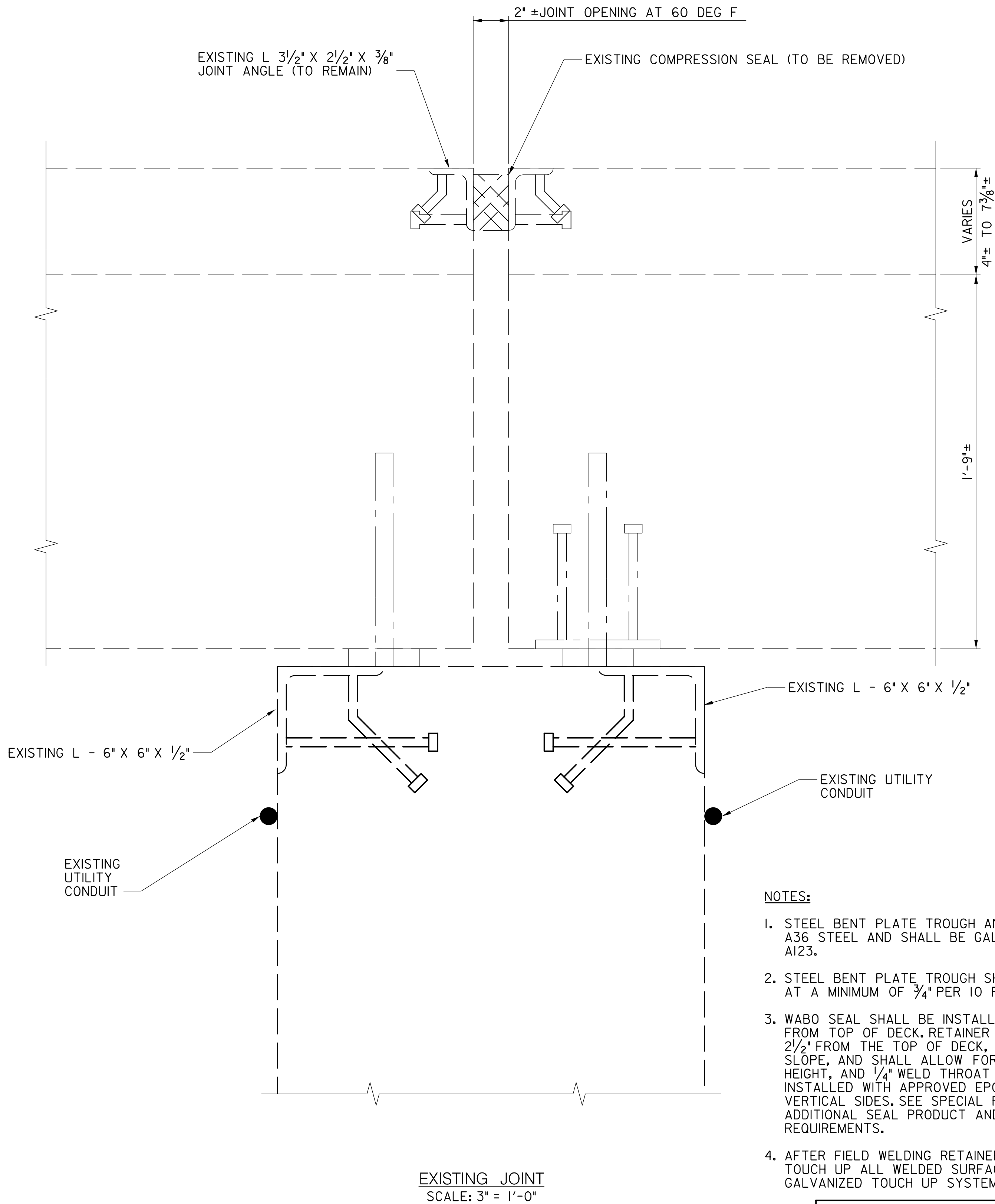
Date

Designed by: TK Drawn by: ZK Checked by: MWM

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

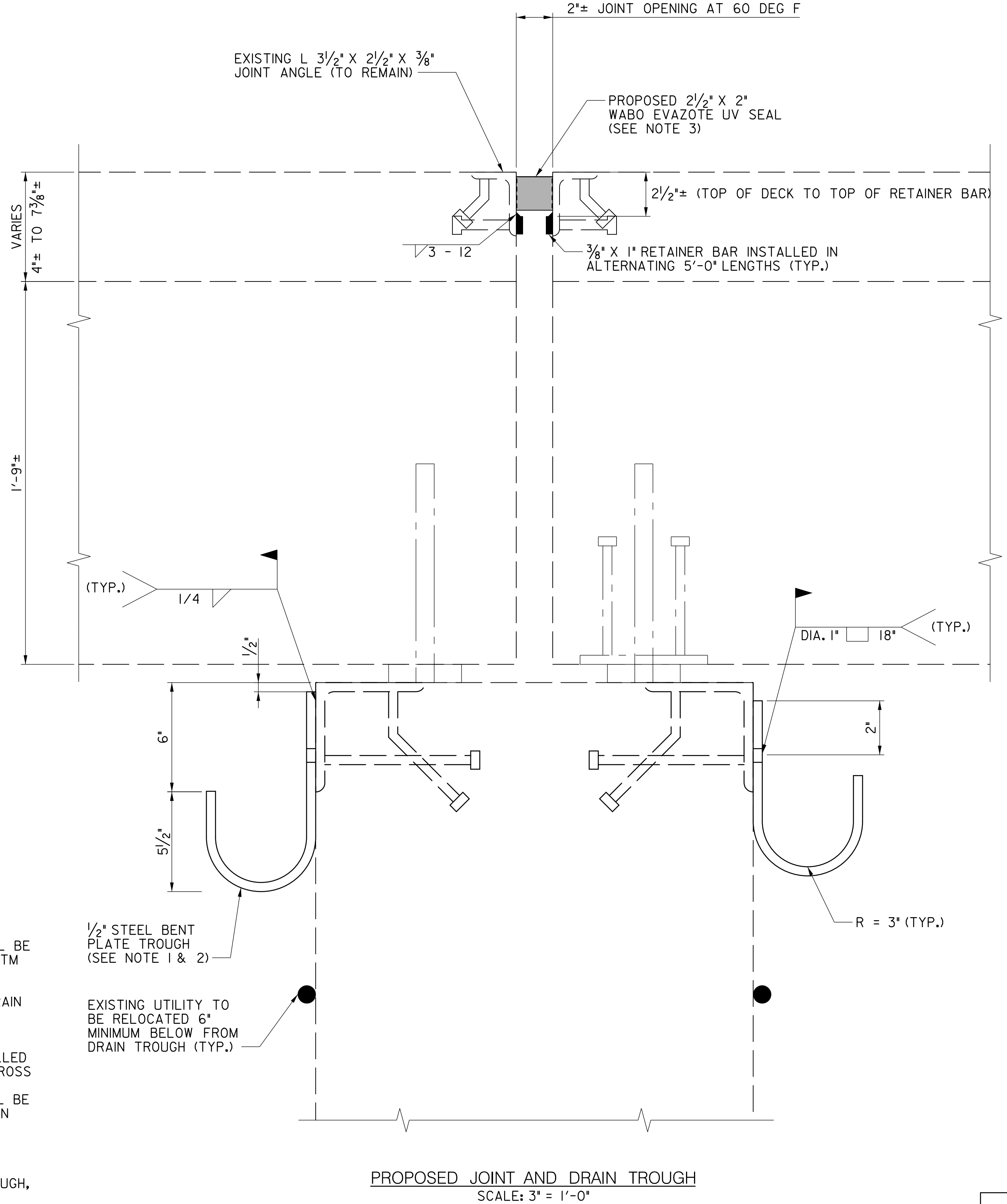
DECK JOINT REPAIR AND DRAIN TROUGH DETAILS

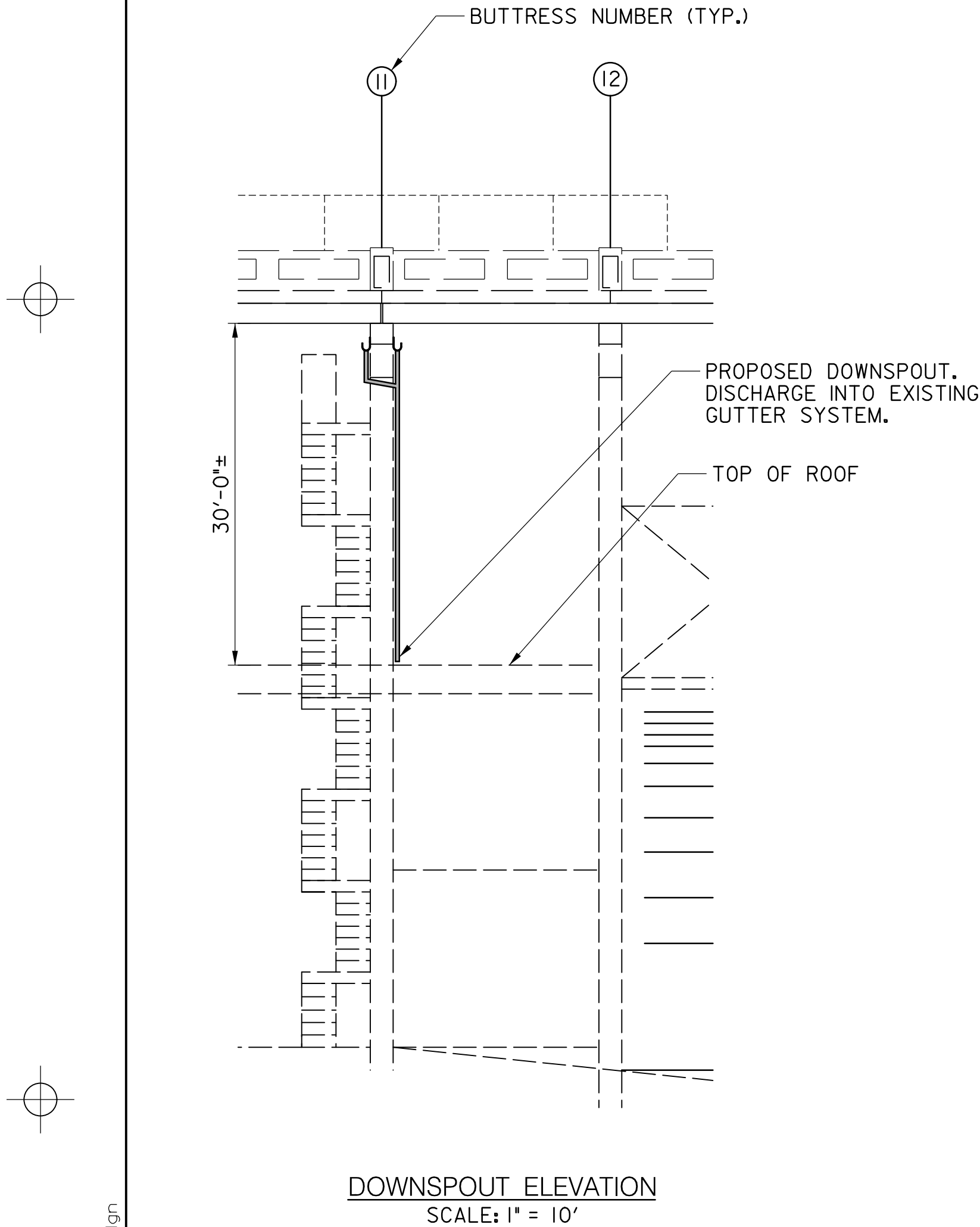
Project No. : 0501907 SHEET 30 of 38



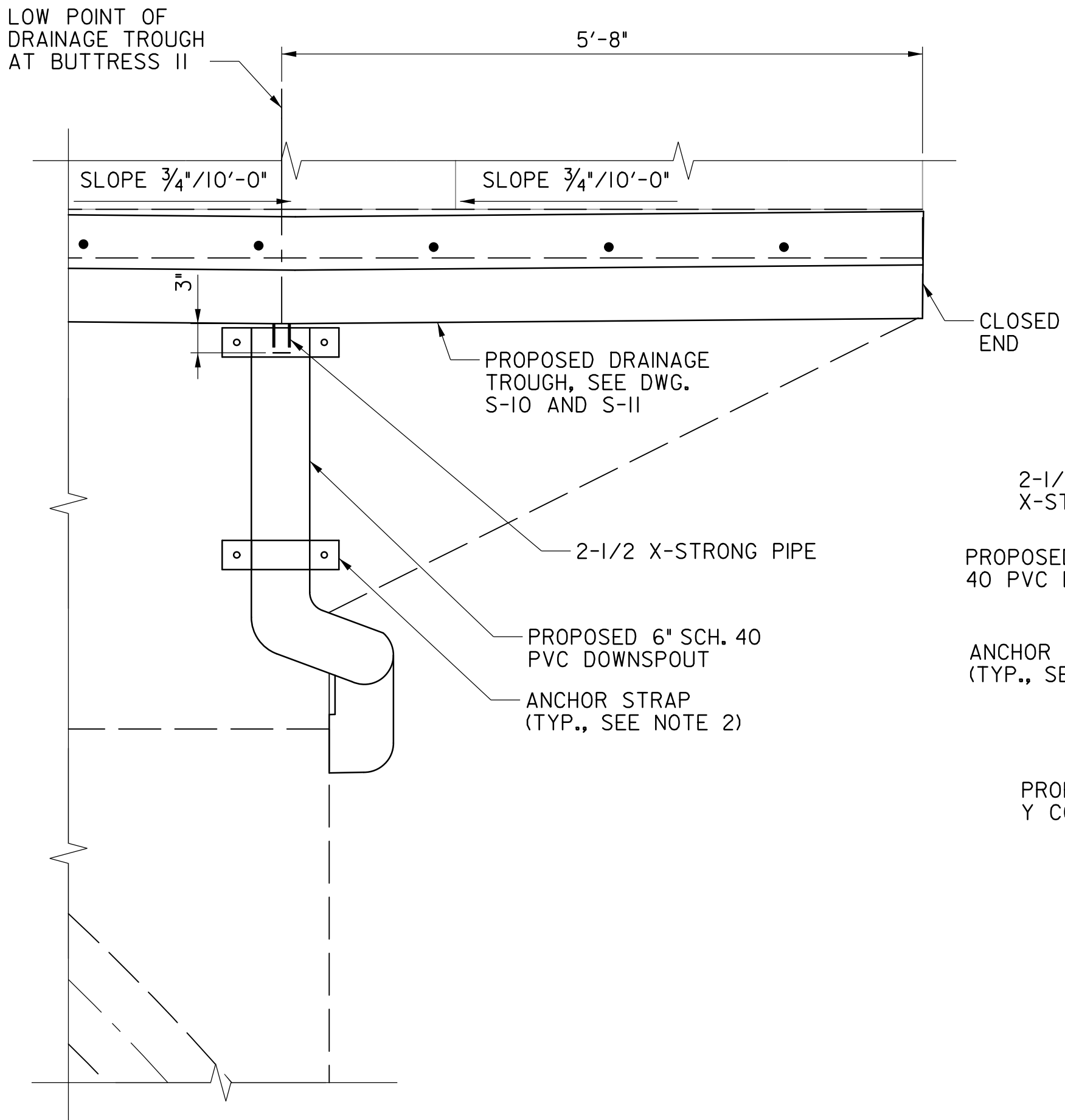
NOTES:

- STEEL BENT PLATE TROUGH AND RETAINER BAR SHALL BE A36 STEEL AND SHALL BE GALVANIZED FOLLOWING ASTM A123.
- STEEL BENT PLATE TROUGH SHALL BE SLOPED TO DRAIN AT A MINIMUM OF 3/4" PER 10 FT.
- WABO SEAL SHALL BE INSTALLED WITH A 1/4" RECESS FROM TOP OF DECK. RETAINER BARS SHALL BE INSTALLED 2 1/2" FROM THE TOP OF DECK, SHALL FOLLOW DECK CROSS SLOPE, AND SHALL ALLOW FOR 1/4" RECESS, 2" SEAL HEIGHT, AND 1/4" WELD THROAT SIZE. WABO SEAL SHALL BE INSTALLED WITH APPROVED EPOXY BONDING SYSTEM ON VERTICAL SIDES. SEE SPECIAL PROVISION 911.01 FOR ADDITIONAL SEAL PRODUCT AND INSTALLATION REQUIREMENTS.
- AFTER FIELD WELDING RETAINER BARS AND DRAIN TROUGH, TOUCH UP ALL WELDED SURFACES WITH APPROVED GALVANIZED TOUCH UP SYSTEM.

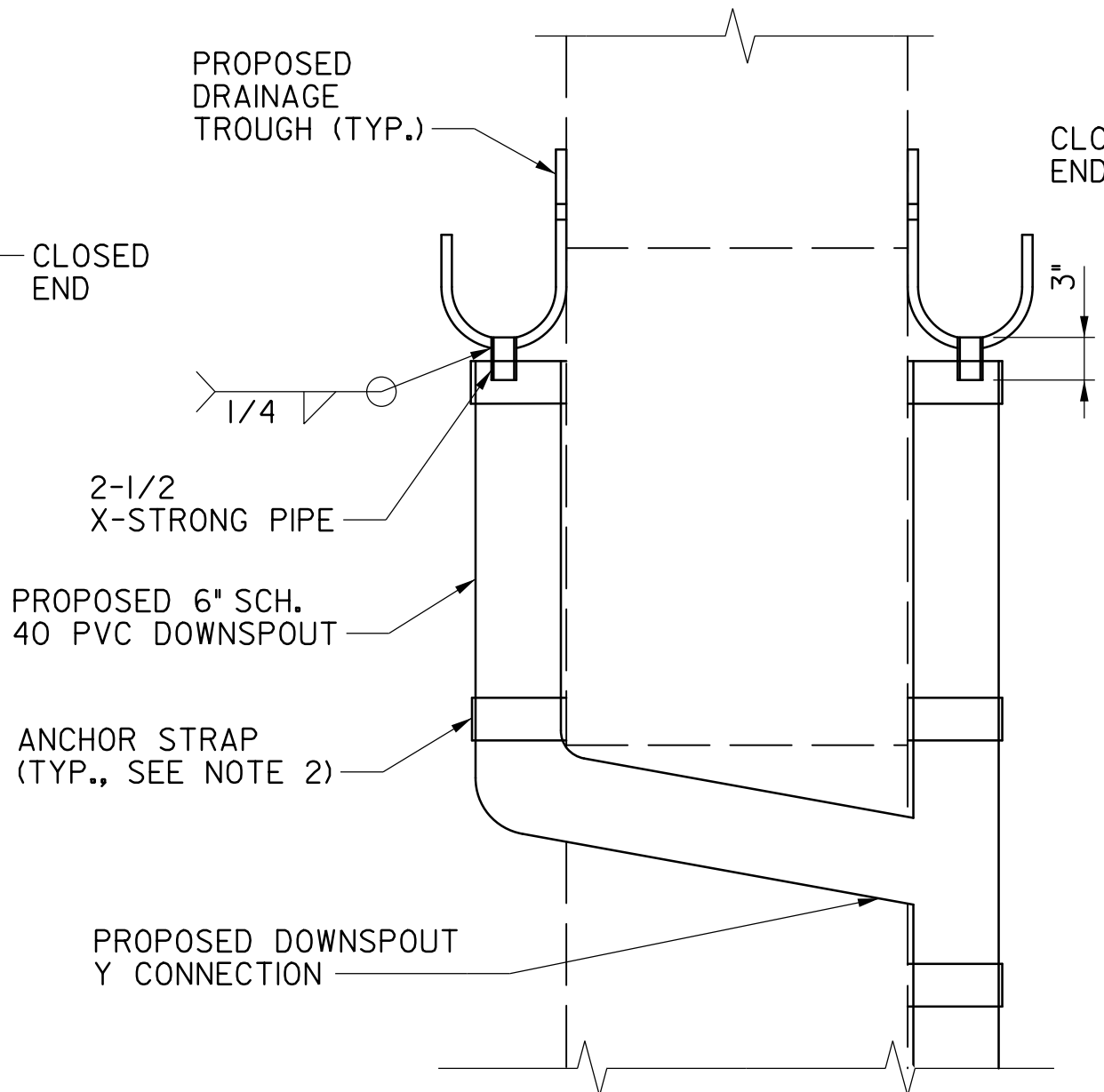




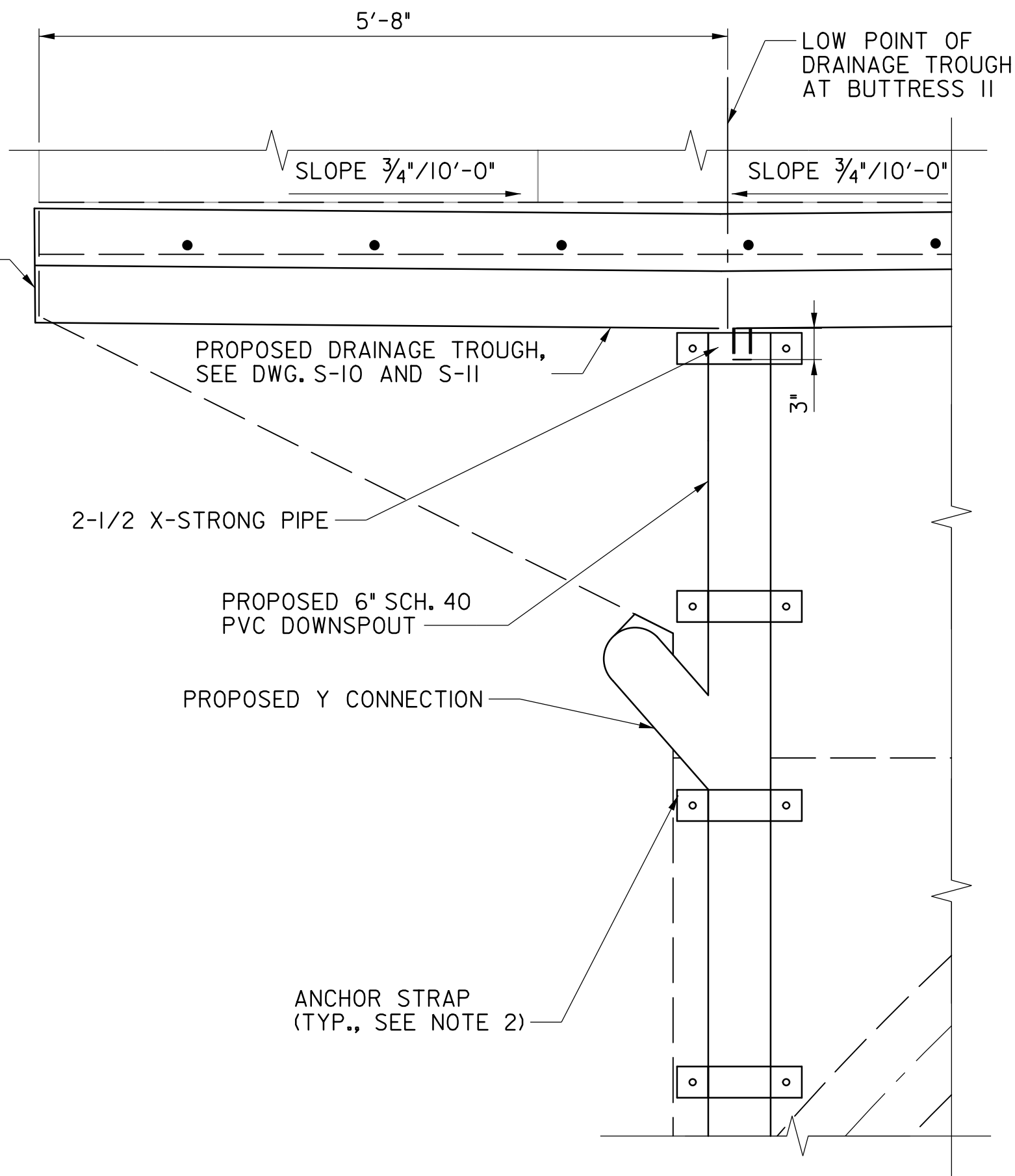
DOWNSPOUT ELEVATION
SCALE: 1" = 10'



BUTTRESS 11 WEST ELEVATION
SCALE: 1" = 1'-0"



BUTTRESS 11 SOUTH ELEVATION
SCALE: 1" = 1'-0"

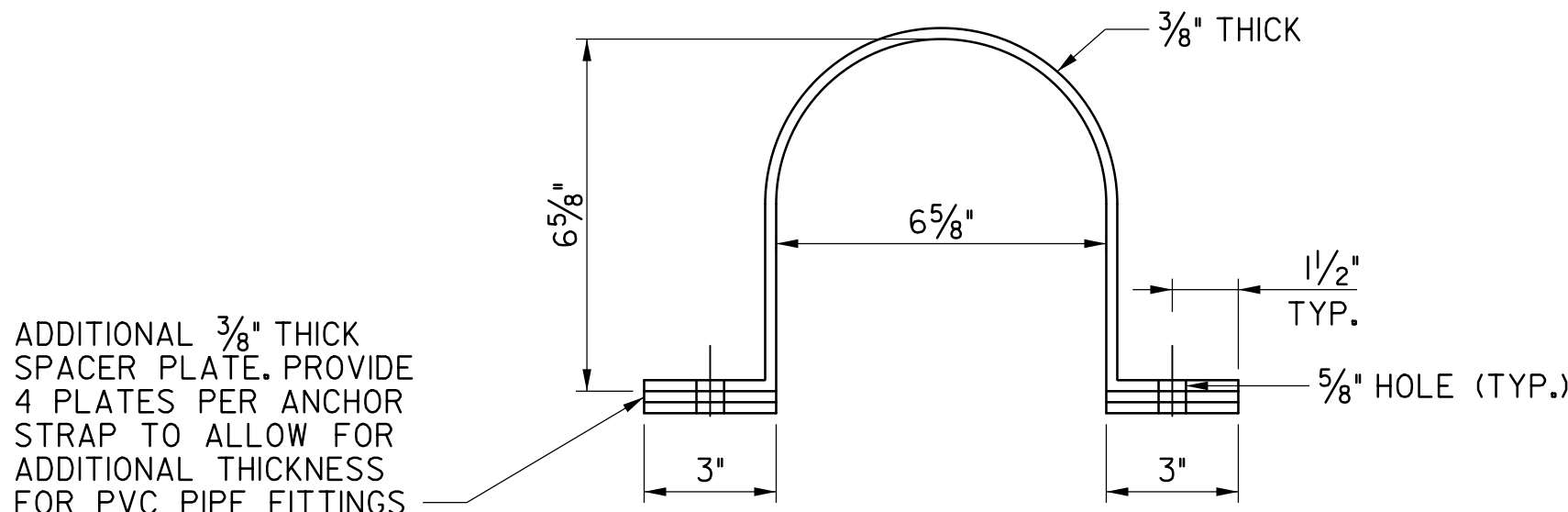


BUTTRESS 11 EAST ELEVATION
SCALE: 1" = 1'-0"

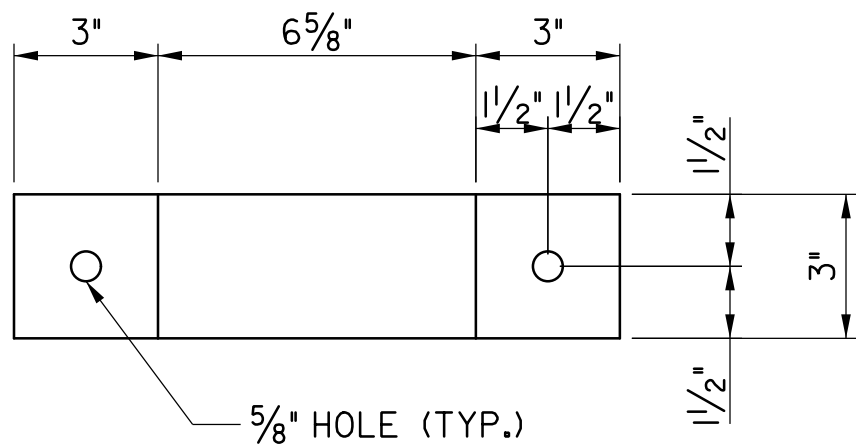
- NOTES:
- ALL DOWNSPOUTS SHALL BE SCHEDULE 40 PVC.
 - INSTALL DOWNSPOUT ANCHOR STRAPS WITH 1/2" DIA. HILTI KWIK BOLT TZ2 SS304 WEDGE ANCHOR (STAINLESS STEEL). LENGTH OF ANCHOR SHALL PROVIDE FOR A MINIMUM OF 3" EMBEDMENT INTO THE BUTTRESS. CONTRACTOR SHALL FIELD DRILL 3" DEEP, 1/2" DIAMETER HOLES AT ANCHOR STRAP LOCATIONS INTO CONCRETE BUTTRESS. ANCHOR STRAPS SHALL BE PROVIDED AT A MINIMUM OF 10'-0" SPACING EXCEPT AS SHOWN AT THE TOP OF THE BUTTRESS. IT IS ESTIMATED THAT 9 ANCHOR STRAPS WILL BE NEEDED.
 - APPLY EPOXY ADHESIVE BETWEEN INSIDE OF ANCHOR STRAP AND OUTSIDE OF PVC DOWNSPOUT WHEN INSTALLED.
 - ANCHOR STRAPS, SPACERS, AND X-STRONG PIPE SHALL BE A36 STEEL AND SHALL BE GALVANIZED FOLLOWING ASTM A123.
 - MEASUREMENT AND PAYMENT FOR DOWNSPOUT AT BUTTRESS II SHALL INCLUDE ALL MATERIALS, LABOR, AND INCIDENTALS NEEDED TO INSTALL DOWNSPOUT.



PROPOSED DOWNSPOUT LOCATION
NOT TO SCALE



ANCHOR STRAP DETAIL PLAN
SCALE: 3" = 1'-0"



ANCHOR STRAP DETAIL ELEVATION
SCALE: 3" = 1'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Transportation Engineering

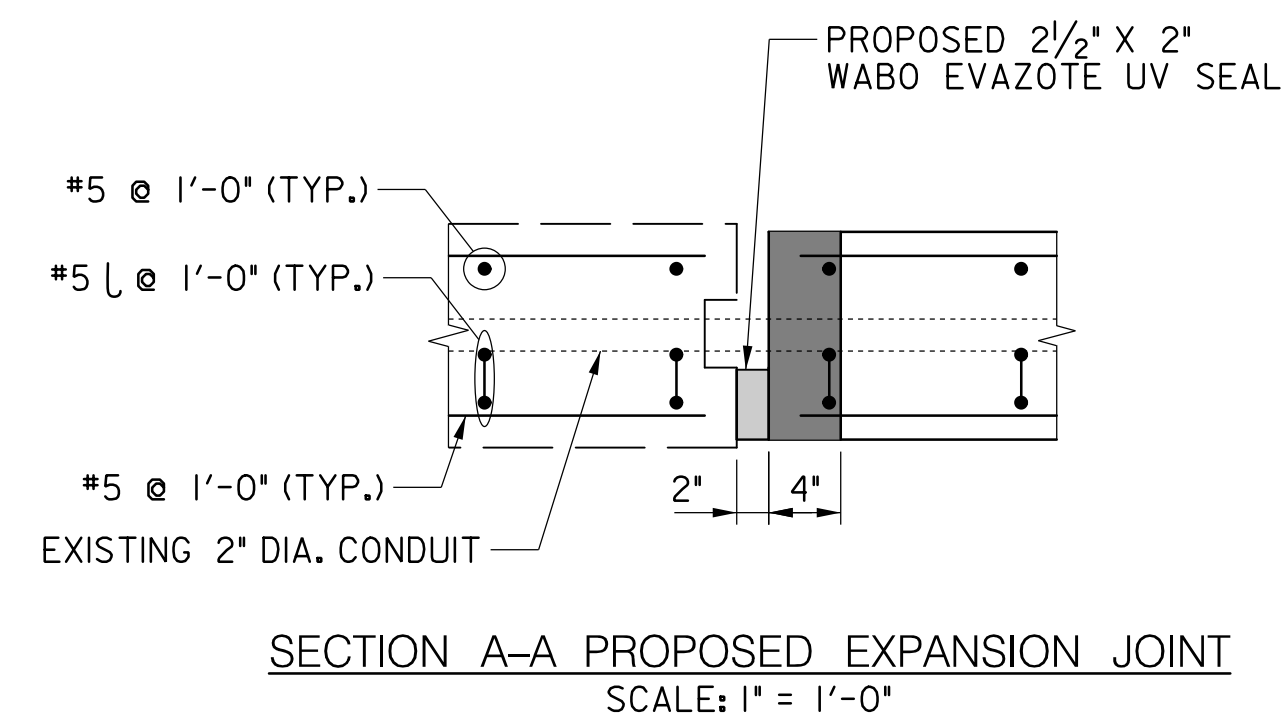
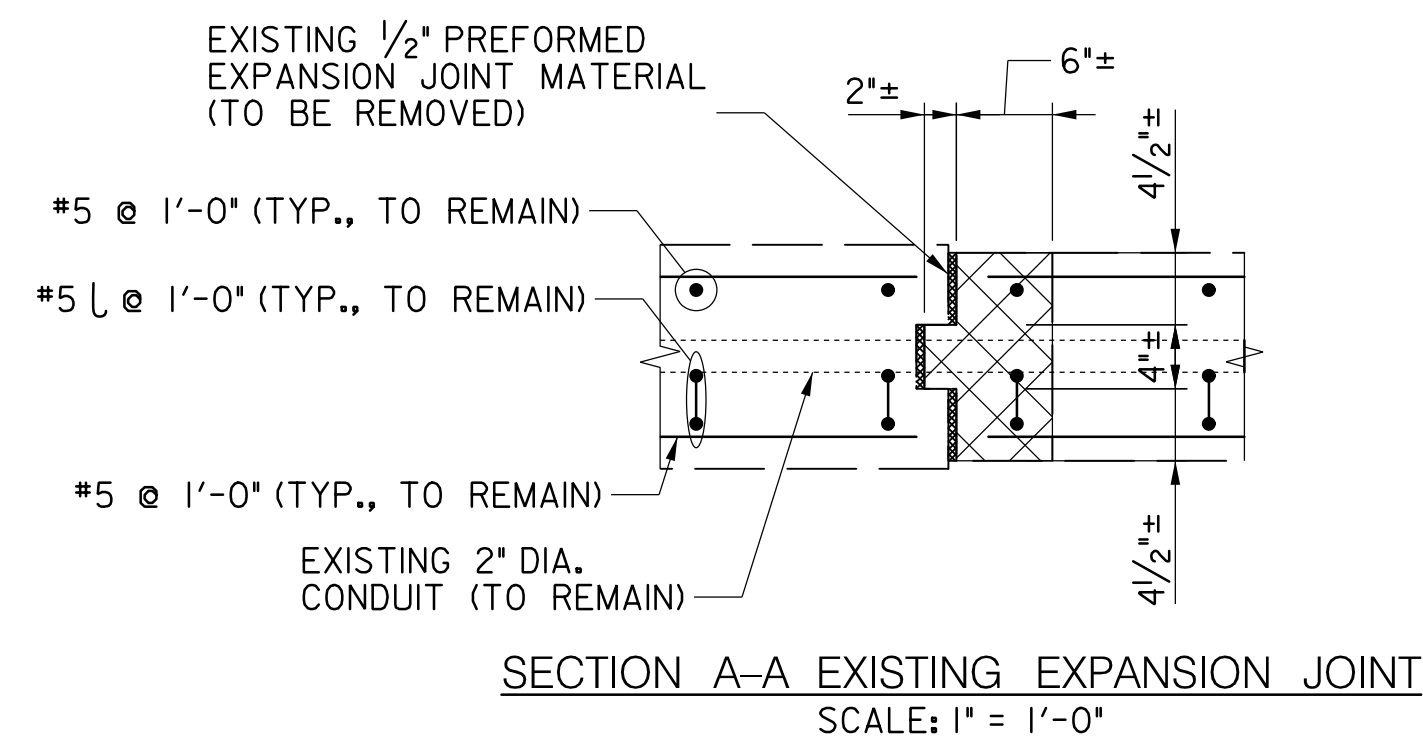
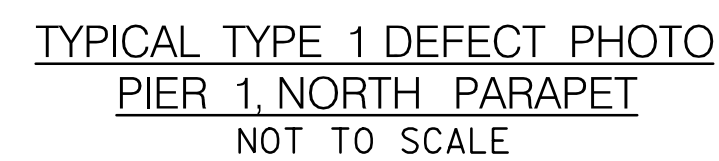
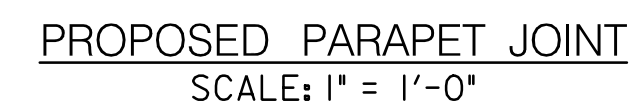
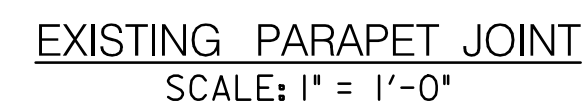
Date

Designed by: KW Drawn by: KW Checked by: MWM

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

DOWNSPOUT DETAILS

Project No. : 0501907 SHEET 32 of 38



1. REMOVAL LIMITS SHOWN ARE MINIMUM REQUIRED TO INSTALL NEW JOINT AT PARAPET/PILESIDER. ADDITIONAL REMOVAL AND REPAIRS MAY BE NEEDED FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS. SEE DWG. NO. S-18 FOR DETAILS ON ADDITIONAL REMOVAL AND REPAIRS FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS.
2. MEASUREMENT AND PAYMENT FOR LIMITS OF REMOVAL AND RECONSTRUCTION SHOWN ON THIS SHEET SHALL BE PAID UNDER REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEM. ADDITIONAL CONCRETE SPALL AND CONCRETE CRACKING REPAIRS BEYOND THE LIMITS SHOWN ON THIS SHEET SHALL NOT BE PAID UNDER THE REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEMS AND SHALL BE PAID USING THE CONCRETE SPALL REPAIR OR CONCRETE CRACKING REPAIR PAY ITEMS.
3. EXISTING HORIZONTAL UTILITY CONDUITS ARE PRESENT IN THE PARAPETS. CARE SHALL BE TAKEN NOT DAMAGE THESE EXISTING CONDUITS. ANY DAMAGE TO THE EXISTING CONDUITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE COUNTY.
4. DETAILS ON THIS SHEET ARE FOR NORTH PARAPET. SOUTH PARAPET DETAILS ARE MIRRORED.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



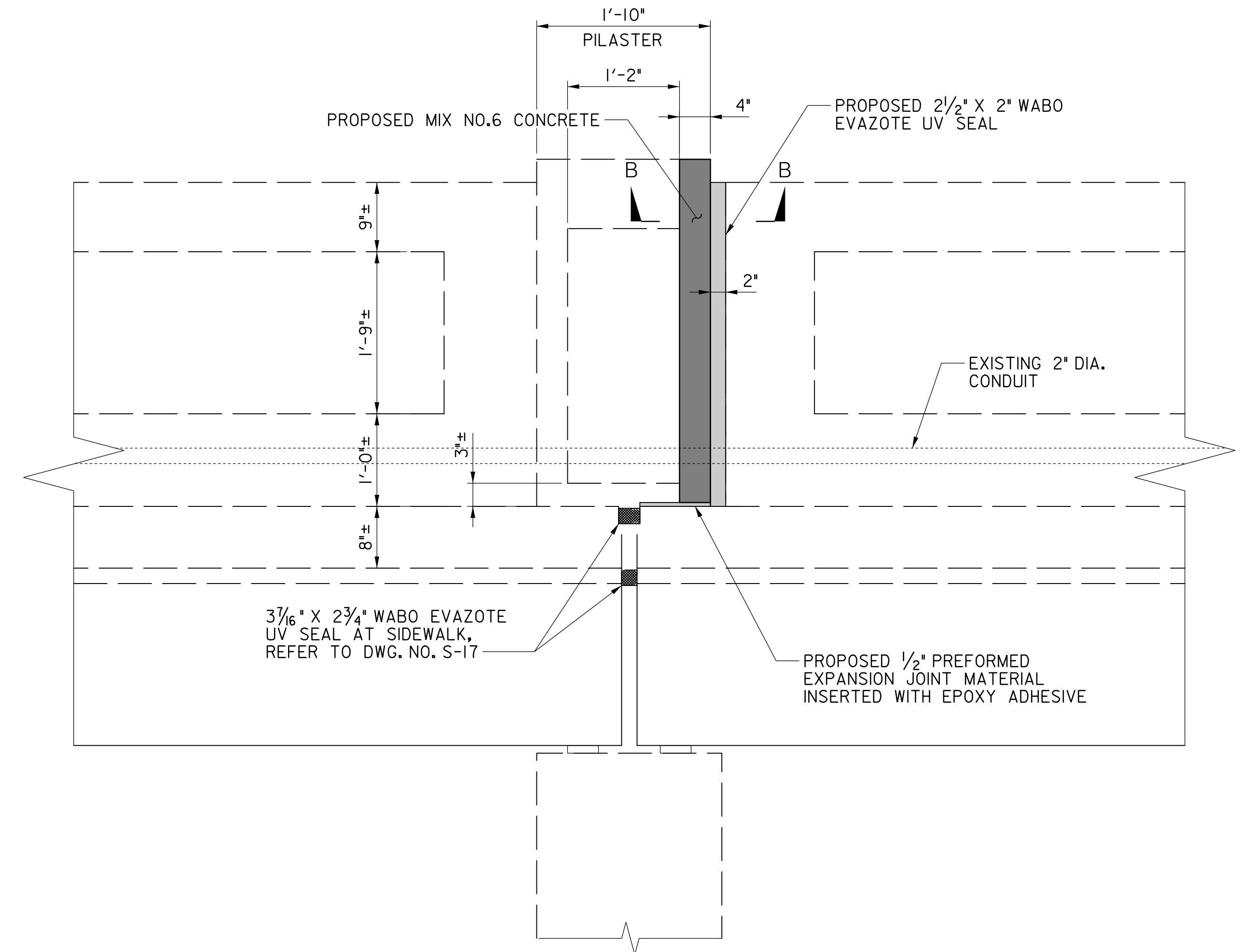
CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

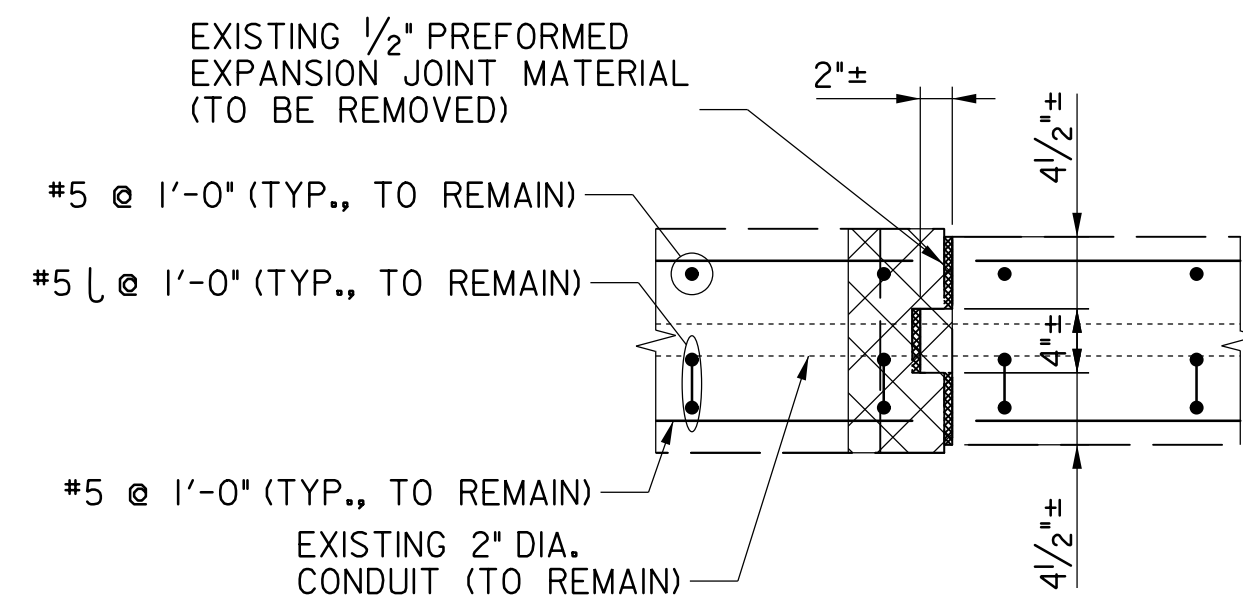
Checked by: MWM

TYPE 1 PARAPET JOINT REPAIR

Project No. : 0501907 SHEET 33 of 38



PROPOSED PARAPET JOINT
SCALE: 1" = 1'-0"



SECTION B-B PROPOSED EXPANSION JOINT
SCALE: 1" = 1'-0"

1. REMOVAL LIMITS SHOWN ARE MINIMUM REQUIRED TO INSTALL NEW JOINT AT PARAPET/PIILASTER. ADDITIONAL REMOVAL AND REPAIRS MAY BE NEEDED FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS. SEE DWG. NO. S-18 FOR DETAILS ON ADDITIONAL REMOVAL AND REPAIRS FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS.
2. MEASUREMENT AND PAYMENT FOR LIMITS OF REMOVAL AND RECONSTRUCTION SHOWN ON THIS SHEET SHALL BE PAID UNDER REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEM. ADDITIONAL CONCRETE SPALL AND CONCRETE CRACKING REPAIRS BEYOND THE LIMITS SHOWN ON THIS SHEET SHALL NOT BE PAID UNDER THE REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEMS AND SHALL BE PAID USING THE CONCRETE SPALL REPAIR OR CONCRETE CRACKING REPAIR PAY ITEMS.
3. EXISTING HORIZONTAL UTILITY CONDUITS ARE PRESENT IN THE PARAPETS. CARE SHALL BE TAKEN NOT DAMAGE THESE EXISTING CONDUITS. ANY DAMAGE TO THE EXISTING CONDUITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE COUNTY.
4. DETAILS ON THIS SHEET ARE FOR NORTH PARAPET. SOUTH PARAPET DETAILS ARE MIRRORED.

PROFESSIONAL CERTIFICATION



MERCADO
CONSULTANTS, INC.

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

RECOMMENDED FOR APPROVAL

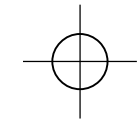
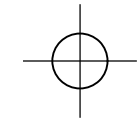
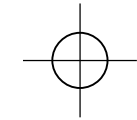
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering Date

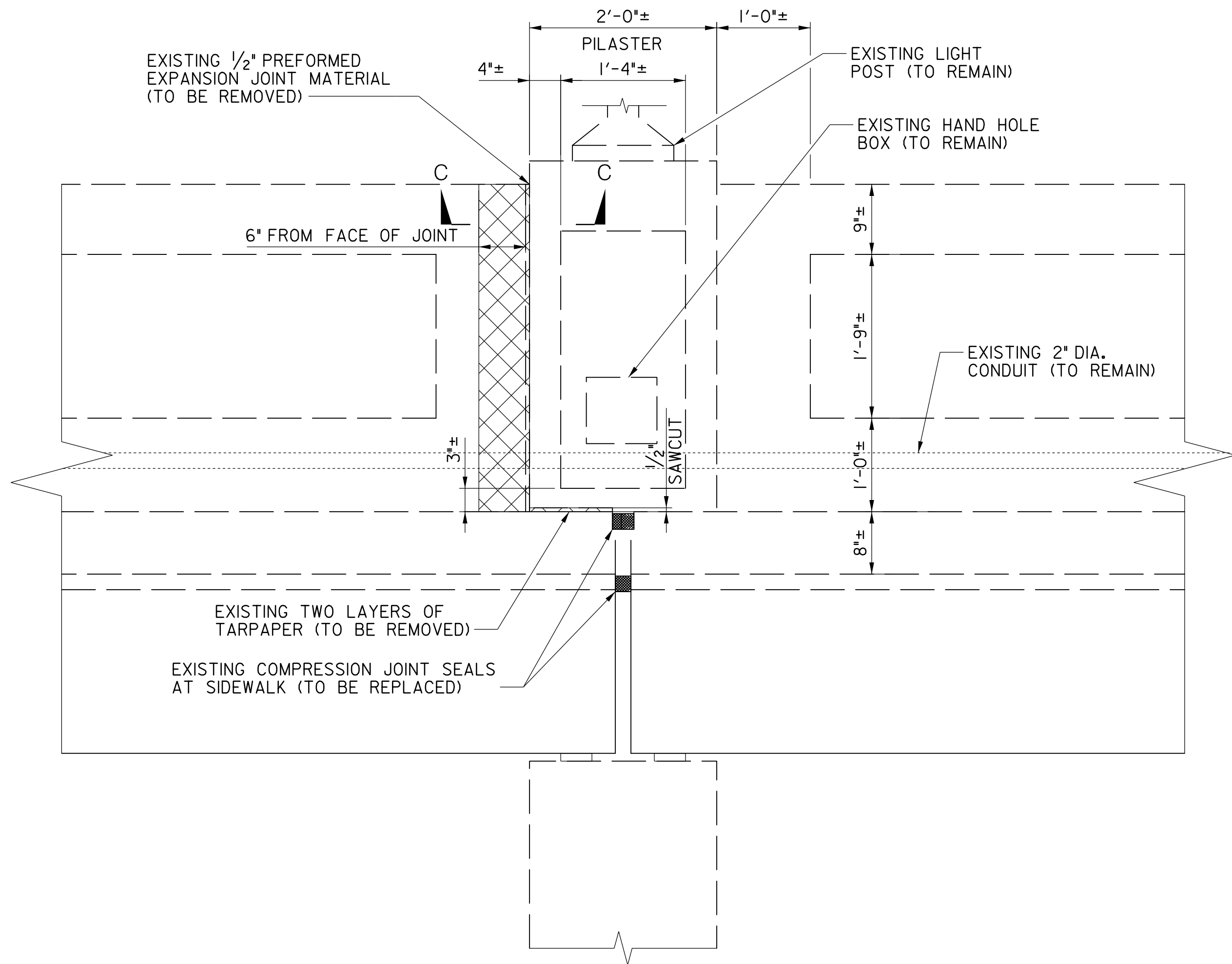
Designed by: TK Drawn by: ZK Checked by: MW

TYPE 2 PARAPET JOINT REPAIR

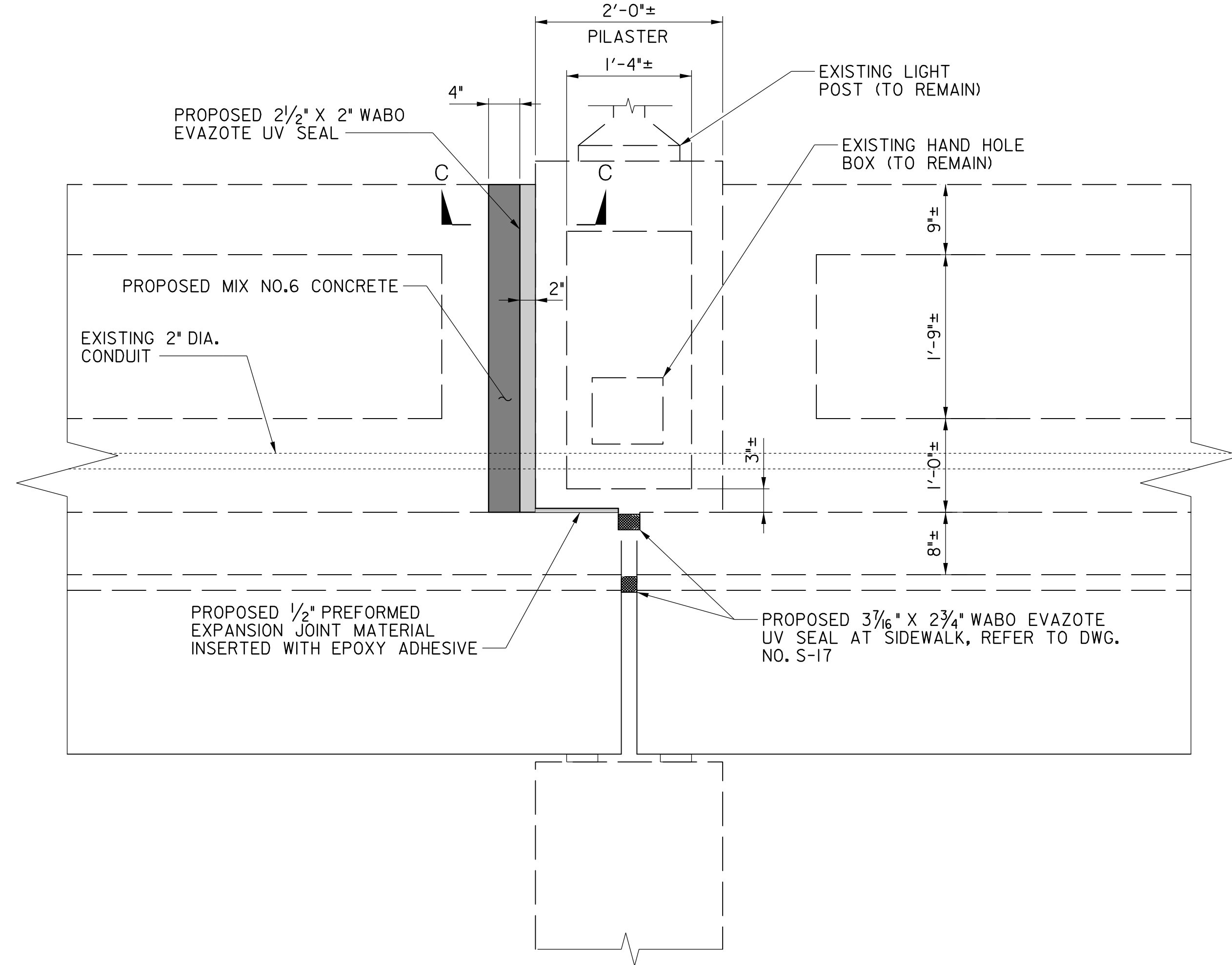
Project No. : 0501907 SHEET 34 of 38



3/20/17 PM
6/22/2022
P:\Projects\2025\2025.04 Brighton Dam\0. CAD\Structures\pBR-DE03 BrightonDamRdBridge.dgn



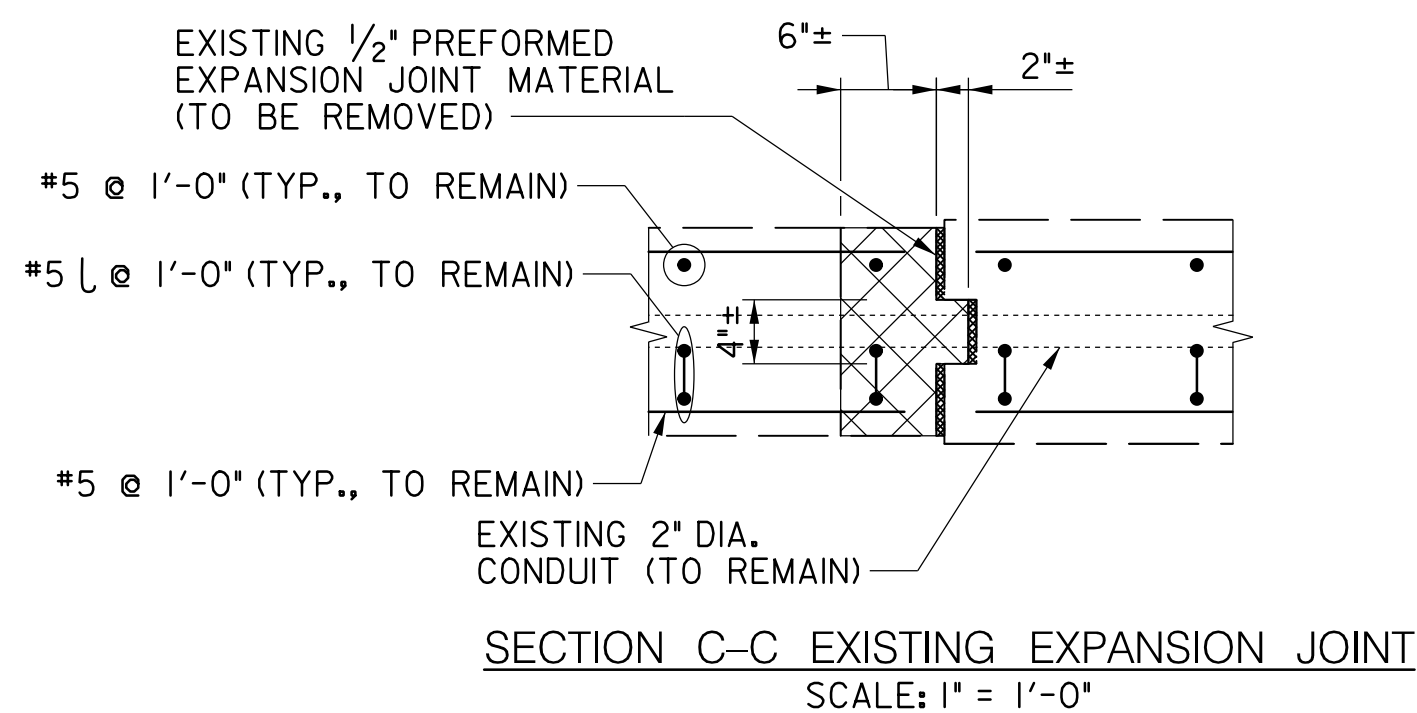
EXISTING PARAPET JOINT
SCALE: 1" = 1'-0"



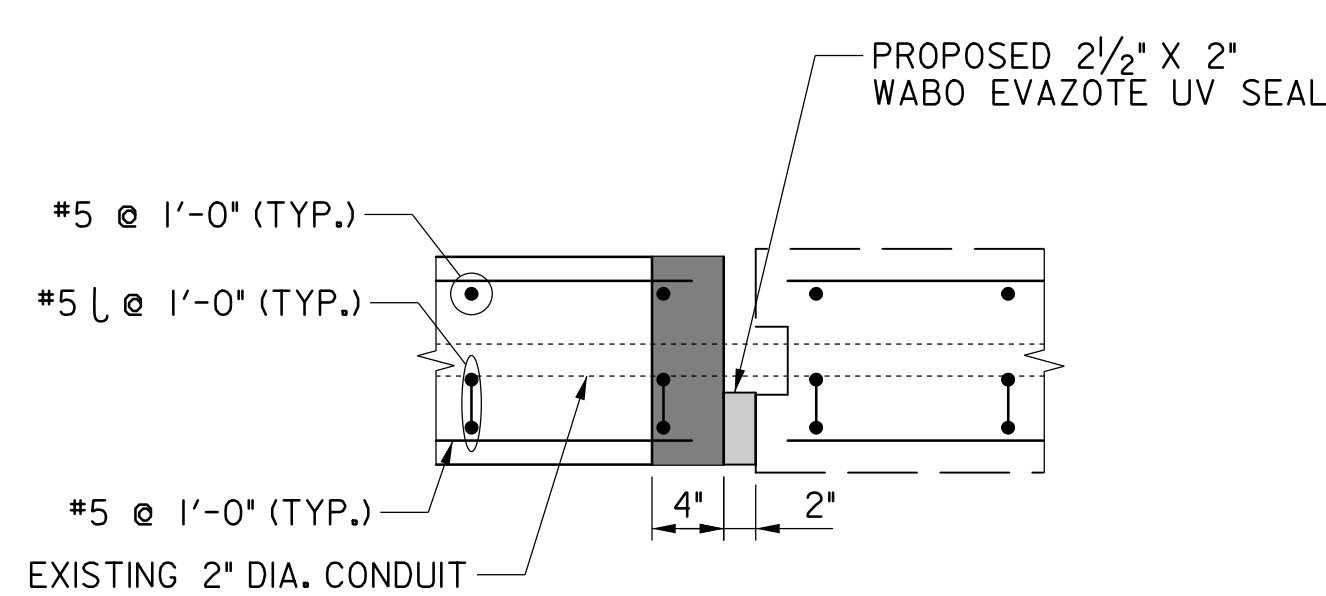
PROPOSED PARAPET JOINT
SCALE: 1" = 1'-0"



TYPICAL TYPE 3 DEFECT PHOTO
PIER 25, SOUTH PARAPET
NOT TO SCALE






SECTION C-C EXISTING EXPANSION JOINT
SCALE: 1" = 1'-0"



SECTION C-C PROPOSED EXPANSION JOINT
SCALE: 1" = 1'-0"

LEGEND:

-  PROPOSED MIX NO.6 CONCRETE
-  PROPOSED WABO EVAZOTE UV SEAL
-  LIMITS OF REMOVAL

NOTES:

- REMOVAL LIMITS SHOWN ARE MINIMUM REQUIRED TO INSTALL NEW JOINT AT PARAPET/PILASTER. ADDITIONAL REMOVAL AND REPAIRS MAY BE NEEDED FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS. SEE DWG. NO. S-18 FOR DETAILS ON ADDITIONAL REMOVAL AND REPAIRS FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS.
- MEASUREMENT AND PAYMENT FOR LIMITS OF REMOVAL AND RECONSTRUCTION SHOWN ON THIS SHEET SHALL BE PAID UNDER REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEM. ADDITIONAL CONCRETE SPALL AND CONCRETE CRACKING REPAIRS BEYOND THE LIMITS SHOWN ON THIS SHEET SHALL NOT BE PAID UNDER THE REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEMS AND SHALL BE PAID USING THE CONCRETE SPALL REPAIR OR CONCRETE CRACKING REPAIR PAY ITEMS.
- EXISTING HORIZONTAL UTILITY CONDUITS ARE PRESENT IN THE PARAPETS. CARE SHALL BE TAKEN NOT DAMAGE THESE EXISTING CONDUITS. ANY DAMAGE TO THE EXISTING CONDUITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE COUNTY.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

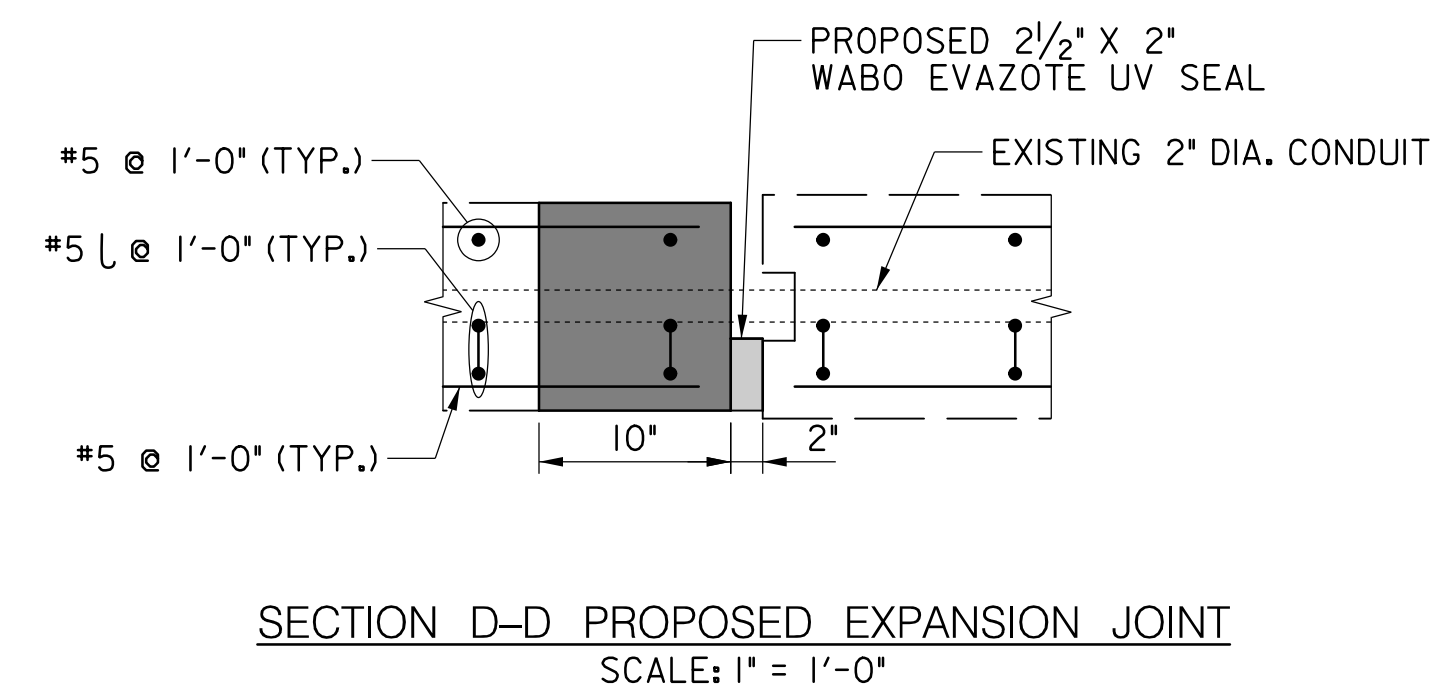
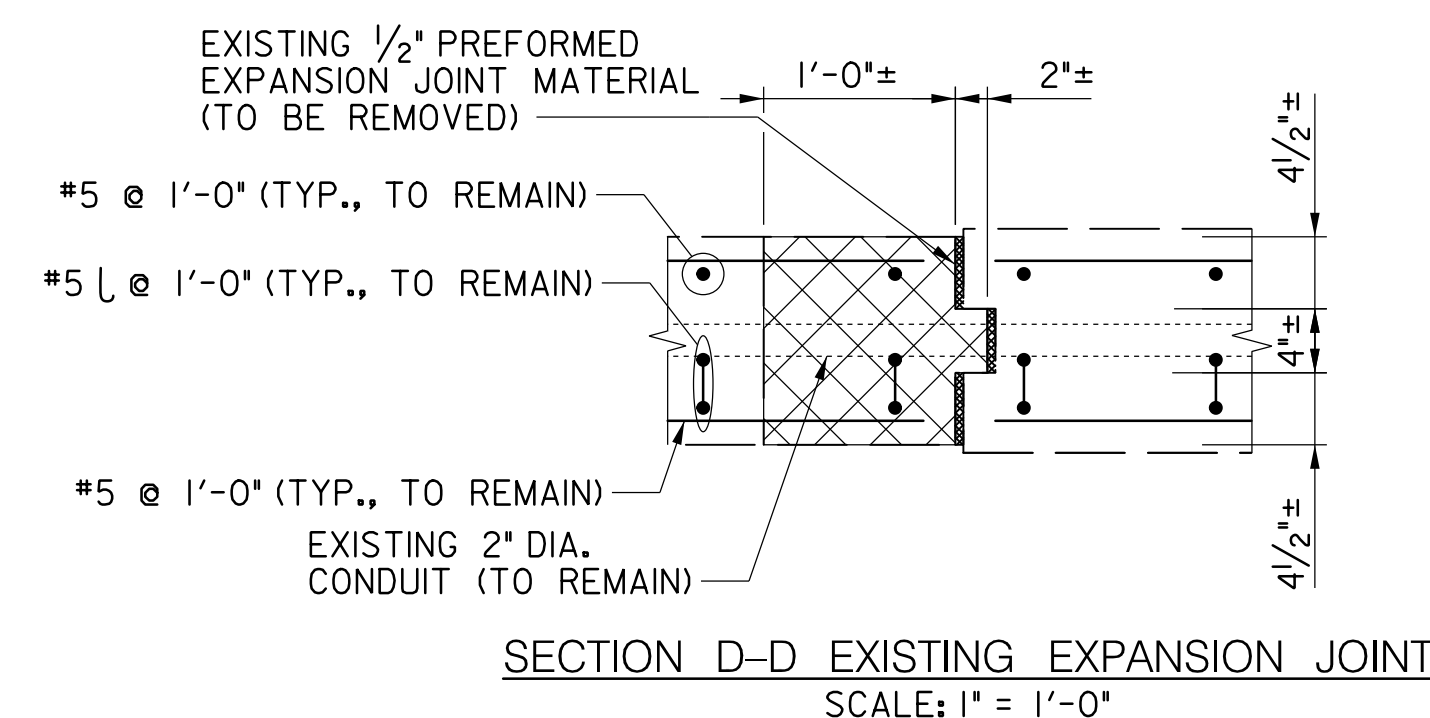
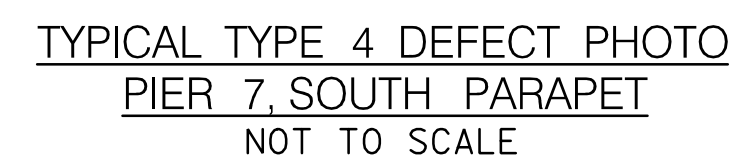
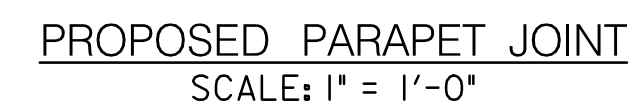
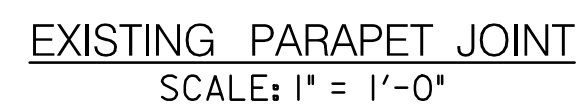
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by:	TK	Drawn by:	ZK
		Checked by:	MMW

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

TYPE 3 PARAPET JOINT REPAIR

Project No. : 0501907 SHEET 35 of 38




S-15



NOTES:

1. REMOVAL LIMITS SHOWN ARE MINIMUM REQUIRED TO INSTALL NEW JOINT AT PARAPET/PILASTER. ADDITIONAL REMOVAL AND REPAIRS MAY BE NEEDED FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS. SEE DWG. NO. S-18 FOR DETAILS ON ADDITIONAL REMOVAL AND REPAIRS FOR ADJACENT CONCRETE SPALLING OR CRACK REPAIRS.
2. MEASUREMENT AND PAYMENT FOR LIMITS OF REMOVAL AND RECONSTRUCTION SHOWN ON THIS SHEET SHALL BE PAID UNDER REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEM. ADDITIONAL CONCRETE SPALL AND CONCRETE CRACKING REPAIRS BEYOND THE LIMITS SHOWN ON THIS SHEET SHALL NOT BE PAID UNDER THE REPAIR OF CONCRETE PARAPET AT BRIDGE JOINTS PAY ITEMS AND SHALL BE PAID USING THE CONCRETE SPALL REPAIR OR CONCRETE CRACKING REPAIR PAY ITEMS.
3. EXISTING HORIZONTAL UTILITY CONDUITS ARE PRESENT IN THE PARAPETS. CARE SHALL BE TAKEN NOT DAMAGE THESE EXISTING CONDUITS. ANY DAMAGE TO THE EXISTING CONDUITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE COUNTY.

LEGEND:

 PROPOSED MIX NO.6 CONCRETE
 PROPOSED WABO EVAZOTE UV SEAL
 LIMITS OF REMOVAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

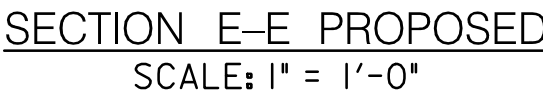
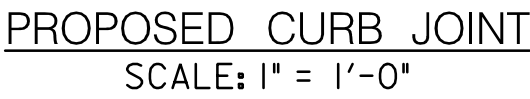
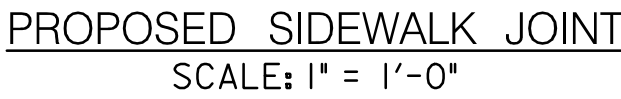
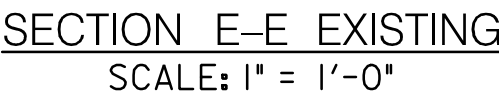
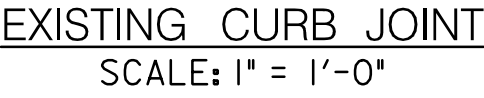
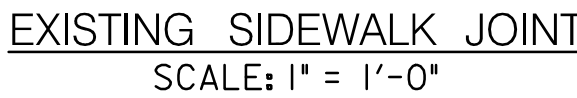
Chief, Division of Transportation Engineering


Designed by: TK Drawn by: ZK Checked by: MWM


REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

TYPE 4 PARAPET JOINT REPAIR

Project No. : 0501907 SHEET 36 of 38



 LIMITS OF REMOVAL

 PROPOSED WABO EVAZOTE UV SEAL

1. WABO EVAZOTE UV SEALS SHALL NOT HAVE ANY RETAINER BARS FOR SEALS BELOW SIDEWALK. WABO SEAL SHALL BE INSTALLED WITH A 1/4" RECESS FROM TOP OF SIDEWALK. WABO SEAL SHALL BE INSTALLED WITH APPROVED EPOXY BONDING SYSTEM ON VERTICAL SIDES. SEE SPECIAL PROVISION 911.01 FOR ADDITIONAL SEAL PRODUCT AND INSTALLATION REQUIREMENTS.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



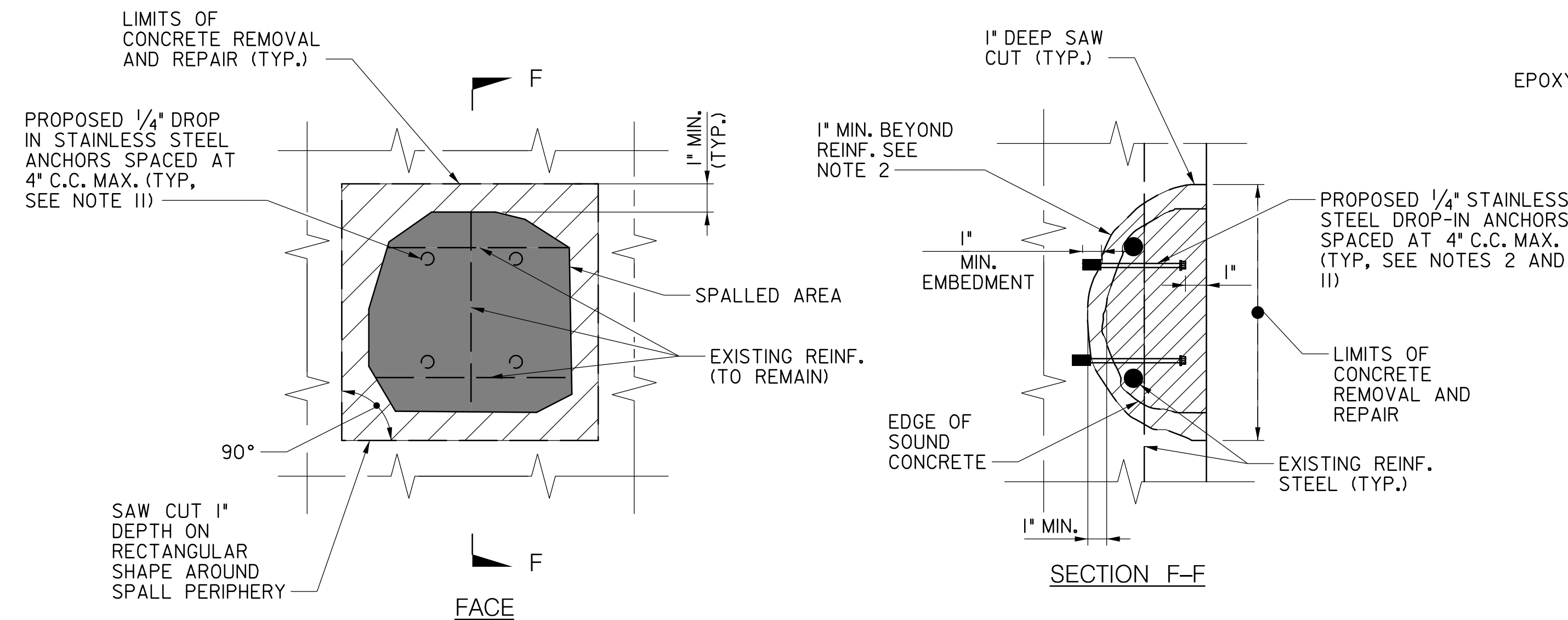
CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

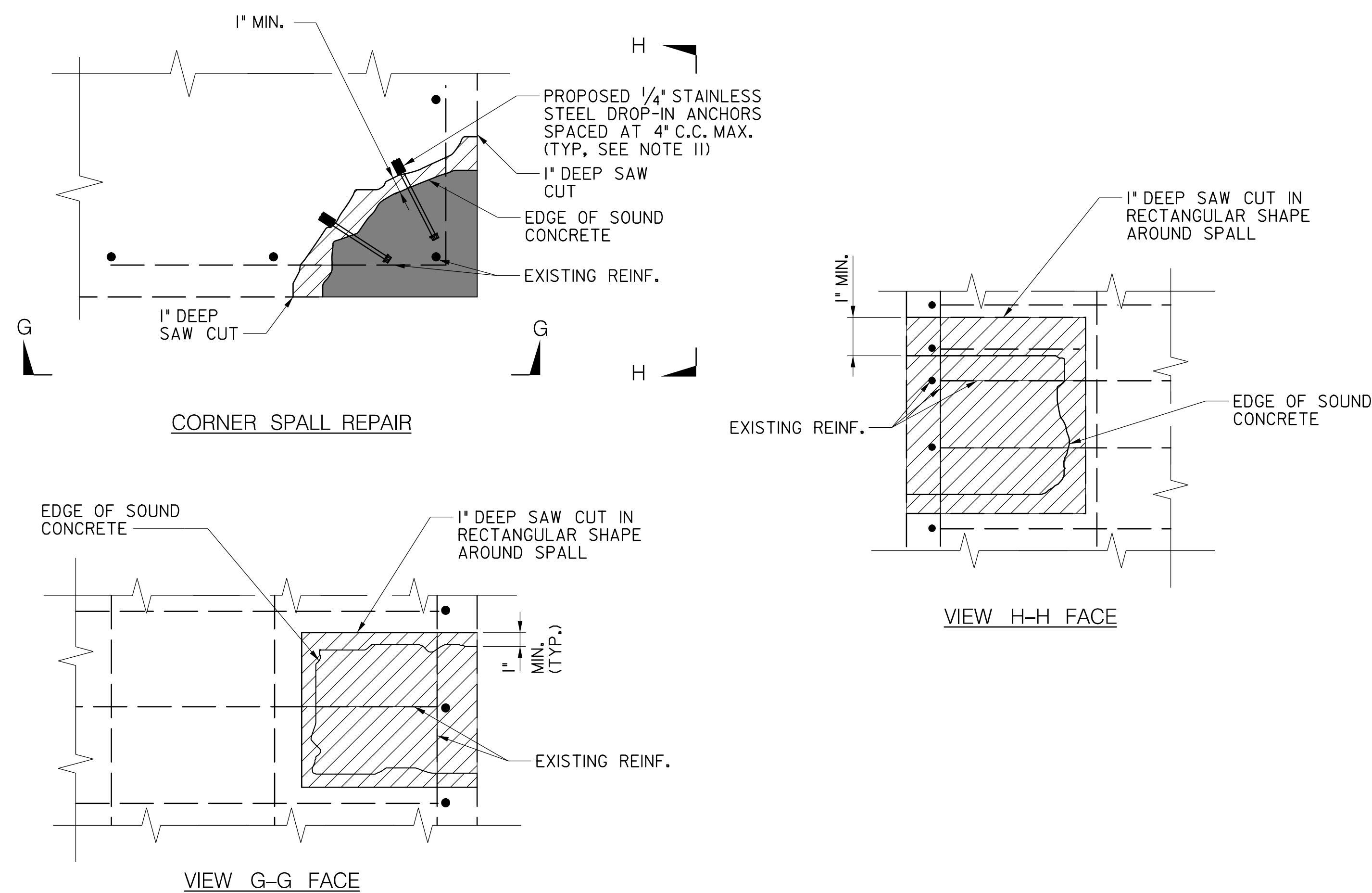
Chief, Division of Transportation Engineering Date

SIDEWALK AND CURB JOINT SEAL DETAILS

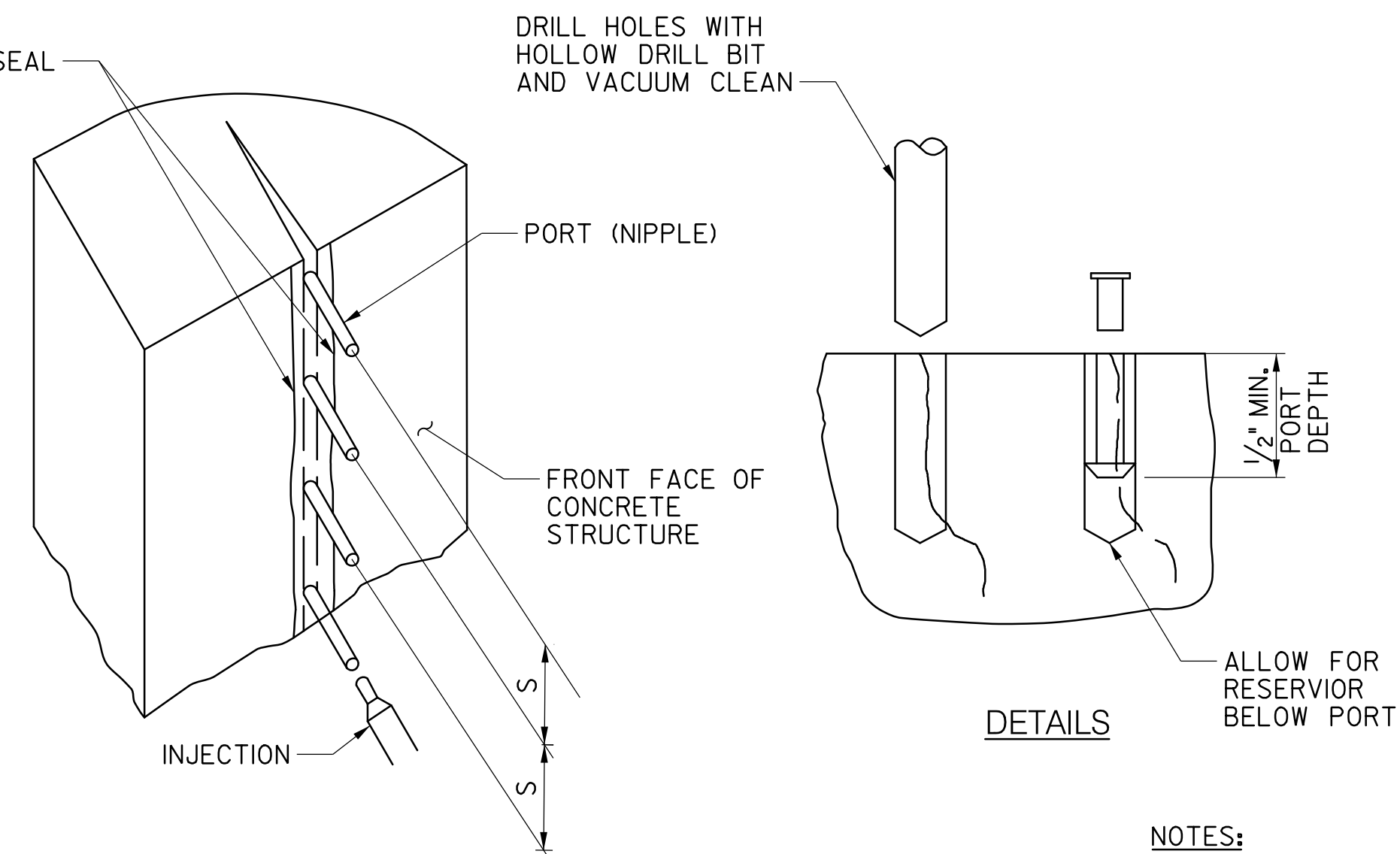
Project No. : 0501907 SHEET 37 of 38



SINGLE PLANE SPALL REPAIR
SCALE: NOT TO SCALE



CORNER SPALL REPAIR
SCALE: NOT TO SCALE



S = SPACING OF INJECTION PORTS PER
MANUFACTURER'S RECOMMENDATION

EPOXY INJECT CRACK
NOT TO SCALE

FOR CRACK WIDTH $> 1/16"$ ONLY,
EXCLUDING DECK, CURB, AND
SIDEWALK AREA

LEGEND:

 LIMITS OF REPAIR
 SPALLED AREA

- NOTES:

1. ALL LOOSE AND DETERIORATED CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BEYOND THE EDGE OF SOUND CONCRETE. IF REINFORCING STEEL IS EXPOSED, THE CONCRETE SHALL BE REMOVED TO A MINIMUM DEPTH OF 1" BEHIND THE REINFORCING STEEL.
2. IF SOUND CONCRETE IS FOUND BEFORE THE REINFORCING STEEL IS EXPOSED WITHIN 3 1/2" OF THE PROPOSED FINISHED SURFACE, STOP THE REMOVAL AND INSTALL DOWEL BARS AS SHOWN. SEE SPECIAL PROVISION 400.01.
3. ALL EXISTING AND PROPOSED REINFORCING STEEL SHALL BE 2" CLEAR OF ANY PROPOSED FINISHED SURFACE. THE CONTRACTOR SHALL TAKE NECESSARY MEANS TO SECURE EXPOSED EXISTING REINFORCING BARS TO ENSURE SUFFICIENT COVER.
4. EXISTING REINFORCING STEEL EXPOSED UPON REMOVAL OF DETERIORATED CONCRETE SHALL BE PROTECTED DURING REMOVAL, CLEANED, AND INCORPORATED INTO THE REPAIRED AREA. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID DAMAGING REINFORCING DURING CONCRETE REMOVAL. IF DAMAGED, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY, AND UNDER THEIR DIRECTION, THE DAMAGED REINFORCEMENT SHALL BE REMOVED AND REPLACED WITH NEW REINFORCEMENT MATCHING THE ORIGINAL SIZE AND SPACING.
5. THE CONTRACTOR SHALL AVOID OVERCUTTING AT THE CORNERS OF SAW CUTS, AND INSTEAD CHIP ALL CORNERS AT SAW CUTS TO BE SQUARE.
6. WHERE SAW CUTS ARE NOT FEASIBLE, THE CONTRACTOR SHALL USE A 30 LB. (MAX.) PNEUMATIC HAMMER FOR CONCRETE REMOVAL.
7. FOR ADDITIONAL INFORMATION ON THE REMOVAL OF DETERIORATED CONCRETE FOR SPALL REPAIRS, REFER TO SECTION 423.03.03.
8. SPALLED AREAS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL SPALLED AREAS WILL VARY.
9. FOR DETAILS ON CONCRETE SPALL REPAIRS, SEE SPECIAL PROVISION 400.01.
10. FOR DETAILS ON CONCRETE CRACK REPAIRS, SEE SPECIAL PROVISION 400.02.
11. CONTRACTOR SHALL LOCATE ALL EXISTING PRESTRESS TENDONS ON CONCRETE BEAMS USING NON-DESTRUCTIVE TECHNIQUES PRIOR TO DRILLING AND INSTALLING STAINLESS STEEL ANCHORS ON ANY CONCRETE BEAM. METHOD OF NON-DESTRUCTIVE LOCATION TECHNIQUES SHALL BE SUBMITTED TO THE COUNTY FOR REVIEW PRIOR TO REPAIR OPERATIONS. COST OF NON-DESTRUCTIVE LOCATION TECHNIQUES SHALL NOT BE MEASURED BUT SHALL BE INCIDENTAL TO THE CONCRETE SPALL REPAIR UNIT COST.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED
BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38931 EXPIRATION DATE 12-22-2023



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering _____ Date _____

Designed by: ZK Drawn by: ZK Checked by: MW

REHABILITATION OF BRIDGE NO. M-0229
ON BRIGHTON DAM ROAD OVER
BRIGHTON DAM

CONCRETE SPALL REPAIR DETAILS

Project No. : 0501907 SHEET 38 of 38