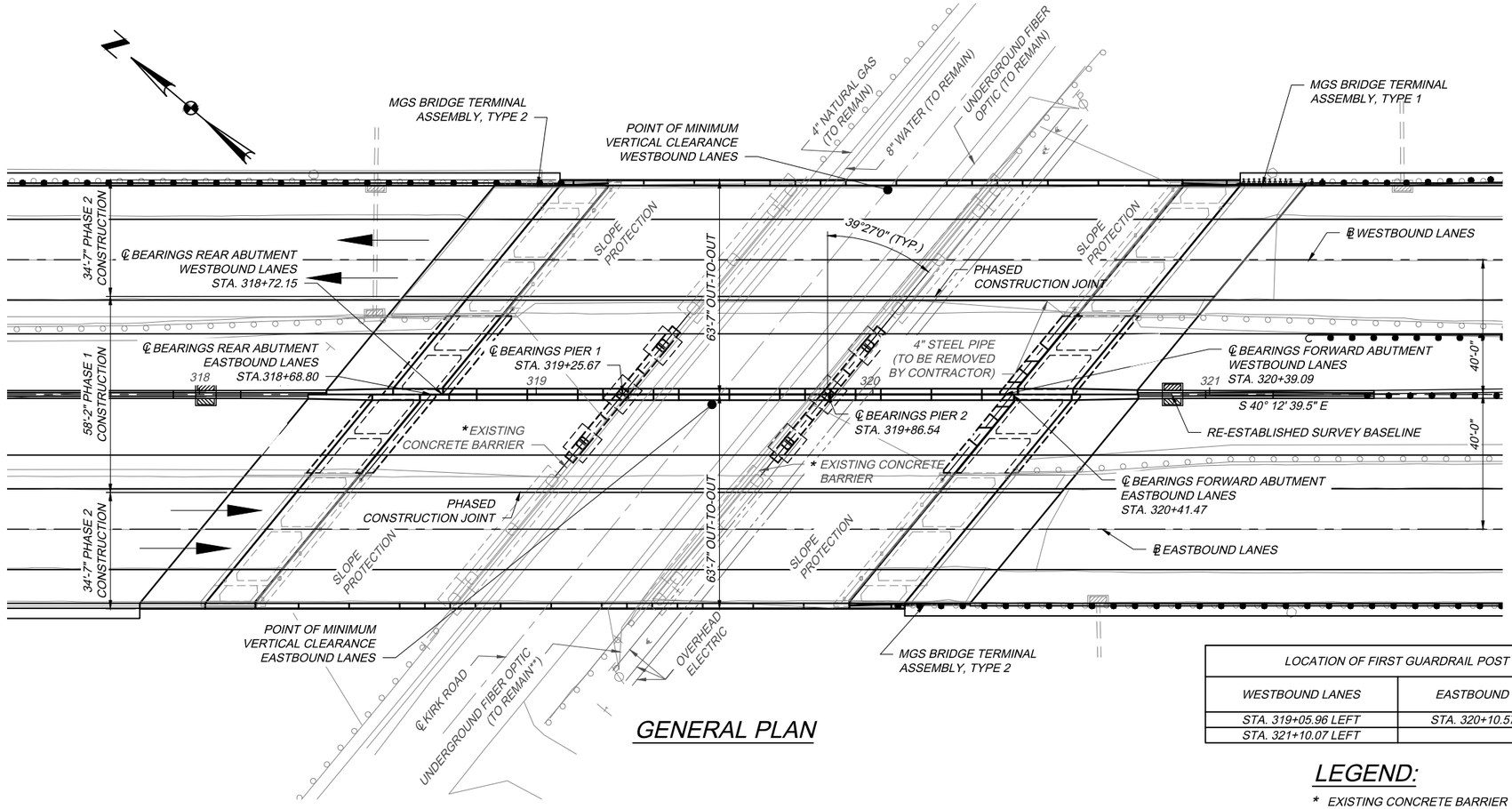


GENERAL PLAN

LOCATION OF FIRST GUARDRAIL POST	
WESTBOUND LANES	EASTBOUND LANES
STA. 319+05.96 LEFT	STA. 320+10.57 RIGHT
STA. 321+10.07 LEFT	

LEGEND:

* EXISTING CONCRETE BARRIER TO BE REMOVED AND REPLACED BETWEEN EXISTING PIERS. PAYMENT TO BE MADE WITH ITEM 202-CONCRETE BARRIER REMOVED AND ITEM 622-CONCRETE BARRIER, SINGLE SLOPE, TYPE D

** CONTRACTOR SHALL EXPOSE FIBER OPTIC LINE PRIOR TO EXCAVATING FOR FOOTING CONSTRUCTION

BENCHMARKS:
FOR BENCHMARKS, REFER TO THE SURVEY CONTROL PLAN

EXISTING STRUCTURES

TYPE: CONTINUOUS STEEL BEAM WITH NON-COMPOSITE CONCRETE DECK ON REINFORCED CONCRETE PIERS WITH CELLULAR ABUTMENTS

SPANS: 53'-6"±, 60'-10"±, 52'-7"±
C/C BEARINGS WESTBOUND
56'-10"±, 60'-10"±, 54'-11"±
C/C BEARINGS EASTBOUND

ROADWAY: 37'-4" ± TOE TO TOE OF PARAPETS

SKEW: 39°27'0"± LEFT FORWARD

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: 15'-0" LONG

ALIGNMENT: TANGENT

BUILT: 1954

REHAB: 1985

STRUCTURE FILE NUMBER: 5029295 EASTBOUND
5029309 WESTBOUND

OTIC MILEPOST: 222.8

PROPOSED STRUCTURES

PROPOSED WORK:
REINFORCED NON COMPOSITE CONCRETE DECK REPLACEMENT AND WIDENING WITH SINGLE SLOPE PARAPET

SPANS: 53'-6"±, 60'-10"±, 52'-7"±
C/C BEARINGS WESTBOUND
56'-10"±, 60'-10"±, 54'-11"±
C/C BEARINGS EASTBOUND

ROADWAY: 60'-3½" ± TOE TO TOE OF PARAPETS

SKEW: 39°27'0"± LEFT FORWARD

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 15'-0" LONG

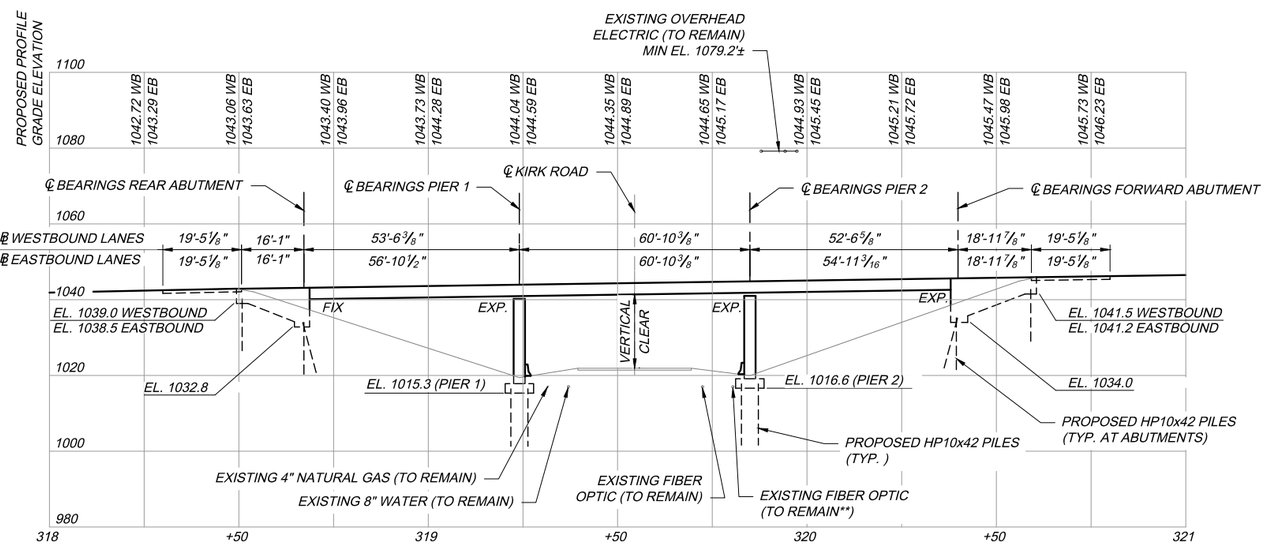
ALIGNMENT: TANGENT

LOADING: HS20-44 CASE 1 AND ALTERNATE MILITARY LOADING

BRIDGE COORDINATES:
WESTBOUND:
LATITUDE: 41°04'09" N
LONGITUDE: 80°47'25" W
EASTBOUND:
LATITUDE: 41°04'09" N
LONGITUDE: 80°47'26" W

PROFILE ALONG ℄ WESTBOUND LANES
1250' VERTICAL CURVE
PVI STA. 318+08
ELEV. 1045.58
G1 = +2.42% G2 = +0.44%

PROFILE ALONG ℄ EASTBOUND LANES
985' VERTICAL CURVE
PVI STA. 319+08
ELEV. 1046.30
G1 = +2.02% G2 = +0.46%



PROFILE ALONG RE-ESTABLISHED SURVEY BASELINE

(WESTBOUND BRIDGE SHOWN, EASTBOUND BRIDGE SIMILAR)

POINT OF MINIMUM VERTICAL CLEARANCE			
LANES	EXISTING	PROPOSED	PREFERRED
EASTBOUND LANES	20'-7"	20'-3"	14'-6"
WESTBOUND LANES	18'-8"	18'-8"	14'-6"

ESTIMATED PILE LENGTH		
	WESTBOUND	EASTBOUND
LOCATION	ESTIMATED LENGTH (FT)	ESTIMATED LENGTH (FT)
REAR ABUTMENT BACK PILES	45'-0"	45'-0"
REAR ABUTMENT FRONT PILES	40'-0"	40'-0"
PIER 1 PILES	20'-0"	20'-0"
PIER 2 PILES	20'-0"	20'-0"
FORWARD ABUTMENT BACK PILES	50'-0"	50'-0"
FORWARD ABUTMENT FRONT PILES	45'-0"	45'-0"

1

DESIGN AGENCY: ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229

NO.	REVISIONS	BY	DATE
1	ADDENDUM 5	SRM	10/20
-	-	-	-
-	-	-	-

DESIGNED JP | CHECKED SRM | DRAWN JP | IN CHARGE GLG

GENERAL PLAN AND PROFILE
OHIO TURNPIKE OVER KIRK ROAD
MAHONING COUNTY
M.P. 222.8

PROJECT 43-20-03
DATE: 08/01/19

1 / 29

70 / 105

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

MP 222.8 SP001.dwg: 10/02/20 - 11:57am