

LOCATION MAP

LATITUDE: 41°29'12" LONGITUDE: 81°41'28"



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
STATE & FEDERAL ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

DESIGN DESIGNATION

SEE DWG. NO. DD-002 INCLUDED IN SURVEY CONTROL.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CUY-90-14.90

CITY OF CLEVELAND

CUYAHOGA COUNTY

BRIDGE NUMBER:

CUY-10-1685

STRUCTURAL FILE NUMBER:

1801511

STRUCTURAL LOCATION NUMBER:

14

NOTE: SEAL AND SIGNATURE ARE AN IMAGE TAKEN FROM THE ORIGINAL AFC DRAWINGS ISSUED ON 01/12/2012.

PROJECT DESCRIPTION

THIS PACKAGE CONSISTS OF THE STRUCTURAL ELEMENTS NEEDED FOR THE DECK AND PARAPET SUPERSTRUCTURE RETROFITS FOR ROADWAY AND AESTHETIC IMPROVEMENTS ON THE STRUCTURE CARNEGIE AVENUE OVER GCRTA.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2010 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS AS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

NO.	REVISIONS	DATE
	RECORD DRAWINGS	11/22/13

DESIGN AGENCY
WALSH HNTB
WALSH CONSTRUCTION
CONSTRUCTION PROJECT NO.
10-3000

CLEVELAND'S INNERBELT BRIDGE
RAILROAD INVOLVEMENT
GCRTA

FEDERAL PROJECT NO. E090(546) E100(247)
PID NO. 77332 / 85531

1310-BRIDGE 14

CUY-90-14.90

DWG. NO.
1 / 14

14

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: **1-800-925-0988**

WALSH
WALSH CONSTRUCTION
929 WEST ADAMS STREET
CHICAGO, IL 60607

HNTB
1100 Superior Ave. Ste 1330
Cleveland, OH 44114

ENGINEERS SEAL:	ENGINEERS SEAL:
SIGNED: _____ DATE: _____	SIGNED: _____ DATE: _____

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

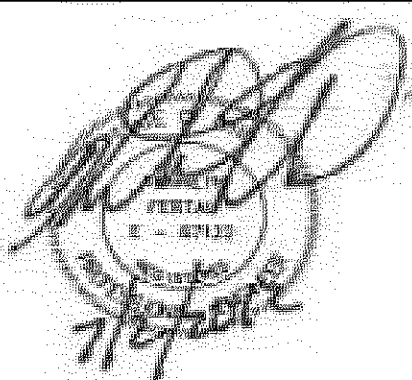
SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
847E10000	MICRO SILICA MODIFIED CONCRETRE OVERLAY	104	SQ YD
451E30000	SPECIAL - PRESSURE RELIEF JOINT, TYPE A	83	FT
530E00800	SPECIAL - STRUCTURE, MISC.: AESTHETICS, CONCRETE PAVING	846	SQ YD
530E00800	SPECIAL - STRUCTURE, MISC.: AESTHETICS, CONCRETE UNIT PAVER C	231	SQ YD
530E00800	SPECIAL - STRUCTURE, MISC.: AESTHETICS, PEDESTRIAN ISLAND, GRANITE PAVER	913	SQ YD
607E98000	FENCE, MISC.: DECORATIVE FENCE	143	FT
609E30000	CURB, TYPE 8	40	FT

INDEX OF SHEETS

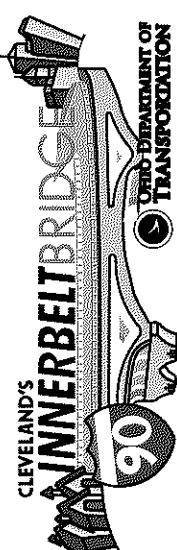
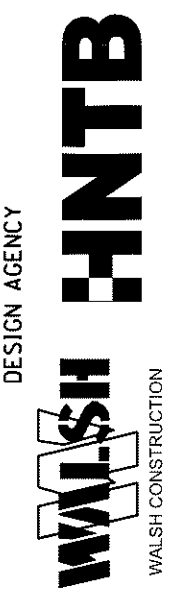
REV.	DATE	SHEET	TITLE
1	01/10/2012	1	COVER SHEET
2	04/20/2012	2	SHEET INDEX
1	01/10/2012	3	GENERAL NOTES
2	04/20/2012	4	SITE PLAN
2	04/20/2012	5	REMOVAL PLAN
2	04/20/2012	6	PHASED CONSTRUCTION PLAN-1
2	04/20/2012	7	PHASED CONSTRUCTION PLAN-2
1	01/10/2012	8	DECK CROSS SECTIONS
1	01/10/2012	9	DECK DETAILS - 1
2	04/20/2012	10	DECK DETAILS - 2
2	04/20/2012	11	DECK CONTOURS
1	01/10/2012	12	DECORATIVE FENCE LAYOUT
1	01/10/2012	13	DECORATIVE FENCE DETAILS
2	04/20/2012	14	APPROACH SLAB DETAILS

REVISIONS:

- 06/29/2012 SHEET INDEX, SHEET 2
 SITE PLAN, SHEET 4
 REMOVAL PLAN, SHEET 5
 PHASED CONSTRUCTION PLAN-1, SHEET 6
 PHASED CONSTRUCTION PLAN-2, SHEET 7
 DECK DETAILS - 2, SHEET 10
 DECK CONTOURS, SHEET 11
 APPROACH SLAB DETAILS, SHEET 14
- 11/22/2013 RECORD DRAWINGS - ADDED CHANGE RECORD TABLE
 RECORD DRAWINGS - CHANGE ORDER #32

DRAWING ISSUE	IMPACT TO DESIGN	ENGINEER OF RECORD	DATE OF CHANGE OR IMAGE OF SEAL/DATE FROM ORIGINAL DOCUMENT	SHEET NO.
Approved For Construction	NA	Van W. Robbins #75987	Image of Seal from RFC Plans on Title Sheet	1 / 14
NDC 0050 - Lorain-Carnegie Bikeway	YES	Kenneth Fertal #67122		(4, 5, 6, 7, 10, 11, 14) / 14
Change Order #32	NDC 0050 FULLILLED THE REQUEST OF CHANGE ORDER #32.			

010_1685CGT002.dgn 12/18/2015 12:15:05 PM rstriegel

DESIGNED PEG KEY	DRAWN ENH CHECKED VWR	REVIEWED DBT	DATE 12-07-11	STRUCTURE FILE NUMBER 1801511	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 2 14 </div>
			BRIDGE 14  SHEET INDEX		
			BRIDGE NO. CUY-10-1685 CARNegie AVENUE OVER GCRTA		
			DESIGN AGENCY  WALSH HNTB WALSH CONSTRUCTION		

STRUCTURE GENERAL NOTES

THE CONSTRUCTION OF THIS BUILDABLE UNIT WILL BE IN CONJUNCTION WITH THE CONSTRUCTION OF THE FOLLOWING BUILDABLE UNITS:

- 1001 SURVEY CONTROL
- 1010 ROADWAY-GATEWAY
- 1023 TRAFFIC CONTROL - TRAFFIC SIGNALS / SIGNING / PAVEMENT MARKINGS
- 1070 MOT PHASE 5
- 1110 LIGHTING - GATEWAY ODOT
- 1111 LIGHTING - GATEWAY CITY
- 1350 BRIDGE CUY-090-1532 (I-90 VIADUCT RAMP A5)
- 1450/1460 WALL DE

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

- AS-1-81 REVISED 07-19-02
- VPF-1-90 REVISED 04-15-11
- BP-2.3 REVISED 07-16-04
- CB1.1 REVISED 07-15-05
- CB 1 SHEET 3/7 (CITY OF CLEVELAND) REVISED 07-08-08
- HL-20.14 REVISED 10-16-09
- HL-50.11 REVISED 01-19-07

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

- SS 847 DATED 07-16-10
- SS 848 DATED 04-16-10

AND TO THE FOLLOWING CONTRACT DOCUMENT:

- STRUCTURE PROJECT PROVISIONS ST-01 DATE 07-23-10

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THESE STRUCTURES CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION - 2002, AASHTO/AWS BRIDGE WELDING CODE D1.5, SIXTH EDITION AND THE 2004 ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING

DESIGN LOADING: HS20 CASE II AND THE ALTERNATE MILITARY LOADING (BASED ON PREVIOUS BRIDGE REHABILITATION PLANS)

DESIGN DATA

CONCRETE CLASS S - REFER TO CMS 511, COMPRESSIVE STRENGTH 4500 PSI

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI, EPOXY COATED

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL IN TOP LAYER OF EXISTING DECK AND SIDEWALK ONLY

- 2" CONCRETE COVER
- 2 3/4" MICRO-SILICA MODIFIED CONCRETE OVERLAY (BASED ON PREVIOUS BRIDGE REHABILITATION PLANS)

PROPOSED WORK

THE WORK TO BE PERFORMED UNDER THIS CONTRACT IS AS SHOWN IN THE CONSTRUCTION PLANS AND, IN GENERAL, INCLUDES THE FOLLOWING FOR SPECIFIC STRUCTURES REQUIRING REHABILITATION:

CUY-10-1685 (PHASE 5A, STEPS 4 THRU 6)

1. REMOVE COMPONENTS OF EXISTING BRIDGE INCLUDING EXISTING TRAFFIC ISLAND, 3" CONCRETE WEARING COURSE AND 3/8" CURB PLATE.
2. ADJUST ANY UTILITY ACCESS POINTS TO GRADE.
3. INSTALL SLEEPER SLAB AT EAST APPROACH SLAB.
4. PLACE CONCRETE WALK MONOLITHIC WITH 10" CONCRETE CURB, SAND BED AND CONCRETE PAVERS 'C'.

CUY-10-1685 (PHASE 5A, STEPS 7 AND 8)

1. REMOVE COMPONENTS OF EXISTING BRIDGE INCLUDING 2 3/4" M.S.M.C. WEARING COURSE UNDER PROPOSED PEDESTRIAN ISLAND, 3" CONCRETE WEARING COURSE AND 3/8" CURB PLATE.
2. ADJUST ANY UTILITY ACCESS POINTS TO GRADE.
3. CONSTRUCT 15" TYPE B CITY, 12" TYPE C CITY, D-8734, D-136 AND D-136A.
4. INSTALL SLEEPER SLABS AT CENTRAL VIADUCT WAY AND AT EAST APPROACH SLAB.
5. CONSTRUCT PEDESTRIAN ISLAND AND LIGHT POLE FOUNDATIONS LOCATED NEAR EXISTING BRIDGE LIMITS.
6. PLACE CONCRETE WALK MONOLITHIC WITH 8" CONCRETE CURB, MORTAR BED, SAND BED, CONCRETE PAVERS 'C' AND GRANITE PAVERS.
7. PLACE 2 3/4" M.S.M.C. IN AREA OF REMOVED TRAFFIC ISLAND.
8. APPLY SEALER TO EXISTING SOUTH PARAPET.
9. INSTALL BENCHES AND DECORATIVE FENCE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CONCRETE DECK REMOVALS:

THIS WORK CONSISTS OF THE PARTIAL REMOVAL OF CONCRETE DECKS AND APPROACH SLABS INCLUDING TRAFFIC ISLANDS AND FENCE. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING PARTIAL DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL METHODS:

THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAM, STEEL GIRDER, ETC.), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING PARTIAL DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

MAINTENANCE OF TRAFFIC

AS REQUIRED PER PROJECT SCOPE, A MINIMUM OF TWO LANES IN EACH DIRECTION SHALL BE MAINTAINED FOR CARNEGIE/LORAIN AVENUES. ACCESS FOR EGRESS OF EMERGENCY RESPONSE VEHICLES SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE FIRE STATION (ON CENTRAL VIADUCT WAY) AND CARNEGIE AVENUE VIA AN ALL-WEATHER ROAD WITH A MINIMUM LANE WIDTH OF 12-FEET. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY RESPONDERS ON A DAILY BASIS REGARDING STATUS OF EMERGENCY ROUTES. SEE "MOT PLANS, PHASES 5 AND 6" FOR ONTARIO-CARNEGIE MAINTENANCE OF TRAFFIC AND CONSTRUCTION STAGING PLANS.

EXISTING NORTH PARAPET PROTECTION

THE EXISTING NORTH PARAPET IS INTEGRATED IN THE THEME OF THE ADJACENT EXISTING LORAIN-CARNEGIE HISTORICAL BRIDGE STRUCTURE. NO WORK SHALL BE DONE ON THE EXISTING NORTH PARAPET. THE EXISTING NORTH PARAPET SHALL BE PROTECTED DURING CONSTRUCTION FROM ACCIDENTAL CONSTRUCTION RELATED DAMAGE, TEMPORARY CONSTRUCTION MARKINGS, ETC.

PROTECTION OF EXISTING UTILITIES

THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL PROPOSED CONSTRUCTION WITHOUT DAMAGE TO THE EXISTING UTILITIES THAT ARE TO REMAIN.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

DOWELS

UNLESS NOTED OTHERWISE IN THE PLANS, ALL DOWELS SHALL BE SET WITH A NONSHRINK, NONMETALLIC ENCAPSULATED ADHESIVE ANCHORAGE SYSTEM AS MANUFACTURED BY HILTI, INC. OR AN EQUAL. AT A MINIMUM, DOWEL HOLE DEPTHS AND SIZES SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. ANCHORAGE SYSTEM SHALL MEET REQUIREMENTS SPECIFIED IN CMS SECTION 705.20.

ITEM 512 - SEALING CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

AFTER INSTALLATION OF LANDSCAPING PAVING AND CONCRETE WALKWAY, SEAL EXPOSED SOUTH PARAPET AND EXPOSED FACES OF PROPOSED LIGHT BLISTERS. THE LIMITS OF SEALING SHALL INCLUDE THE AREAS AS SHOWN ON SHEET 8 OF 14.

CONSTRUCTION CLEARANCE

MAINTAIN A CONSTRUCTION CLEARANCE OF 8 FEET HORIZONTALLY FROM THE CENTER OF TRACKS AND 17 FEET VERTICALLY FROM A POINT LEVEL WITH THE TOP OF THE HIGHER RAIL AT ALL TIMES.

CONSTRUCTION OVER GCRTA TRACKS

GCRTA REQUIREMENTS:

CONTRACTOR WILL COMPLY WITH THE LATEST REVISIONS OF THE FOLLOWING GCRTA STANDARDS.

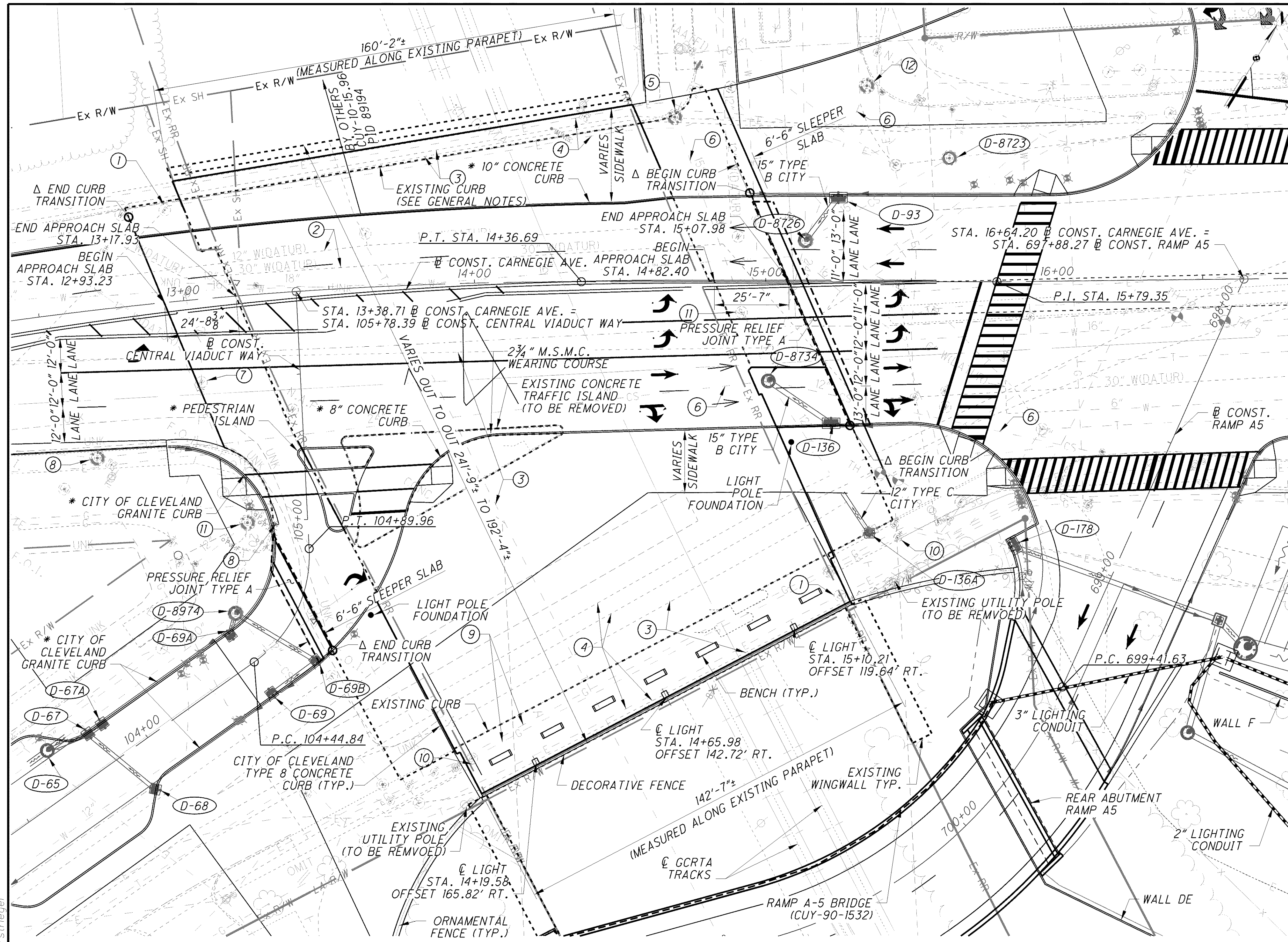
- SECTION 01450 - SAFETY PROCEDURES
- SECTION 01501 - MAINTENANCE OF RAIL TRAFFIC AND RESUMPTION OF REVENUE SERVICE
- SECTION 01502 - STANDARD RAIL FLAGGING PROCEDURE

DECORATIVE FENCE

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE DECORATIVE FENCE TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE PREPARED BY OR UNDER DIRECT SUPERVISORY CONTROL OF AN OHIO REGISTERED PROFESSIONAL ENGINEER. INFORMATION CONTAINED IN SUBMITTED SHOP DRAWINGS SHALL INCLUDE BUT IS NOT LIMITED TO; MEMBER SIZES AND SPECIFICATIONS, OVERALL MEMBER LAYOUT, DETAILS OF INDIVIDUAL FENCE PANEL GEOMETRY INCLUDING ATTACHMENT METHODS AMONG MEMBERS, FINISHING METHODS, AND SEQUENCING OF ASSEMBLY FOR BOTH SHOP AND FIELD FABRICATION.

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DESIGNED PEG	CHECKED VWR	DRAWN RLH	REVIEWED DBT	DATE 12-07-11
			STRUCTURE FILE NUMBER 1801511	
BRIDGE 14			DESIGN AGENCY WASH HNTB WALBY CONSTRUCTION	
GENERAL NOTES			CLEVELAND'S ANNINBELT BRIDGE 90 YEARS OF THE HISTORY OF OHIO	
BRIDGE NO. CUY-10-1685			CARNEGIE AVENUE OVER GCRTA	
PID No. 77332 / 85531			CUY-90-14.90	
3/14			3/14	



BENCHMARK DATA

BM #8 STA. 104+57.77 @ CONST. CENTRAL VIADUCT WAY),
ELEV. 671.867, OFFSET 87.74' RT.
MAG NAIL SET ON TAP OF CONCRETE PARAPET WALL
BM #9 STA. 167+64.24 @ CONST. PROP. I.R. 90 W.B.),
ELEV. 671.805, OFFSET 25.06' RT.
CHISELED CROSS ON EAST BOLT OF LIGHT POLE

NOTES

EXISTING ELEVATIONS ARE BASED ON CURRENT PROJECT SURVEY ELEVATIONS.

FOR LANDSCAPING PLAN DETAILS, INCLUDING PAVERS, BENCHES, CONCRETE WALKS AND ORNAMENTAL FENCE, SEE SHEET LS-006 IN THE ROADWAY-GATEWAY BU 1010.

FOR ADDITIONAL DRAINAGE DETAILS, SEE ROADWAY-GATEWAY BU 1010.

FOR DETAILS OF LIGHTING OFF BRIDGE, SEE LIGHTING-GATEWAY ODOT BU 1110 AND LIGHTING-GATEWAY CITY BU 1111.

FOR ADDITIONAL BRIDGE GEOMETRIC DETAILS, SEE SHEET 11 OF 14.

DESIGN TRAFFIC

EASTBOUND	2015 ADT = 19,500	2015 ADTT = 1,228
	2035 ADT = 20,400	2035 ADTT = 1,285
WESTBOUND	2015 ADT = 8,200	2015 ADTT = 517
	2035 ADT = 8,700	2035 ADTT = 548

EXISTING STRUCTURE

TYPE: REINFORCED CONCRETE GIRDER, DECK AND SUBSTRUCTURE
 SPANS: MEASURED ALONG SOUTH DECK FASCIA
 28'-3 1/16"± (FACE OF WEST ABUTMENT TO C PIER 1)
 34'-0"± (C PIER 1 TO C PIER 2)
 16'-8 3/4"± (C PIER 2 TO C PIER 3)
 30'-2 1/16"± (C PIER 3 TO C PIER 4)
 30'-4 1/8"± (C PIER 4 TO FACE OF EAST ABUTMENT)

ROADWAY: VARIES
 NORTH SIDEWALK: 6'-9"
 SOUTH SIDEWALK: 18'-1"
 LOADING: HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING
 SKEW: VARIES
 APPROACH SLABS: 25'-0" LONG ALONG EXISTING C CARNEGIE AVE.
 ALIGNMENT: TANGENT
 CROWN: VARIES
 WEARING SURFACE: 2 3/4" MICRO-SILICA MODIFIED CONCRETE OVERLAY

STRUCTURAL FILE NUMBER: 1801511
 DATE BUILT: 1932, REHAB 1982, OVERLAY 2000

PROPOSED STRUCTURE

ALL DATA IS THE SAME AS EXISTING STRUCTURE, EXCEPT FOR THE FOLLOWING -

PROPOSED WORK:
 REMOVE EXISTING TRAFFIC ISLAND AND RESURFACE WITH 2 3/4" MICRO-SILICA MODIFIED CONCRETE WEARING COURSE, RELOCATE CURBS, CONSTRUCT AESTHETIC SIDEWALKS, CONSTRUCT PEDESTRIAN ISLAND, REPLACE FENCE ON SOUTH SIDE OF BRIDGE AND ADD BRIDGE LIGHTING.

LEGEND:

- * FOR GEOMETRIC LAYOUT OF CURBS AND PEDESTRIAN ISLAND SEE DWG. 1S-001 AND 1S-002 IN THE ROADWAY-GATEWAY BU 1010.
- Δ FOR ADDITIONAL CURB TRANSITION DETAILS, SEE DWG. PP-026, PP-030 AND PP-031 IN THE ROADWAY-GATEWAY BU 1010.
- ≠ NEENAH MANHOLE ADJUSTING RINGS TO BE INSTALLED PER THE MANUFACTURER'S DETAILS AND PROCEDURES.

HORIZONTAL CURVE DATA @ CONST. CARNEGIE AVE.	HORIZONTAL CURVE DATA @ CONST. CENTRAL VIADUCT WAY	HORIZONTAL CURVE DATA @ CONST. RAMP A5
P.I. STA. 13+18.59	P.I. STA. 104+69.50	P.I. STA. 700+19.44
Δ = 9° 28' 12" (RT)	Δ = 57° 26' 55" (LT)	Δ = 53° 18' 46" (RT)
Dc = 4° 00' 00"	Dc = 127° 19' 26"	Dc = 36° 57' 54"
R = 1,432.39'	R = 45.00'	R = 155.00'
T = 118.65'	T = 24.66'	T = 77.81'
L = 236.75'	L = 45.12'	L = 144.23'
E = 4.91'	E = 6.31'	E = 18.43'

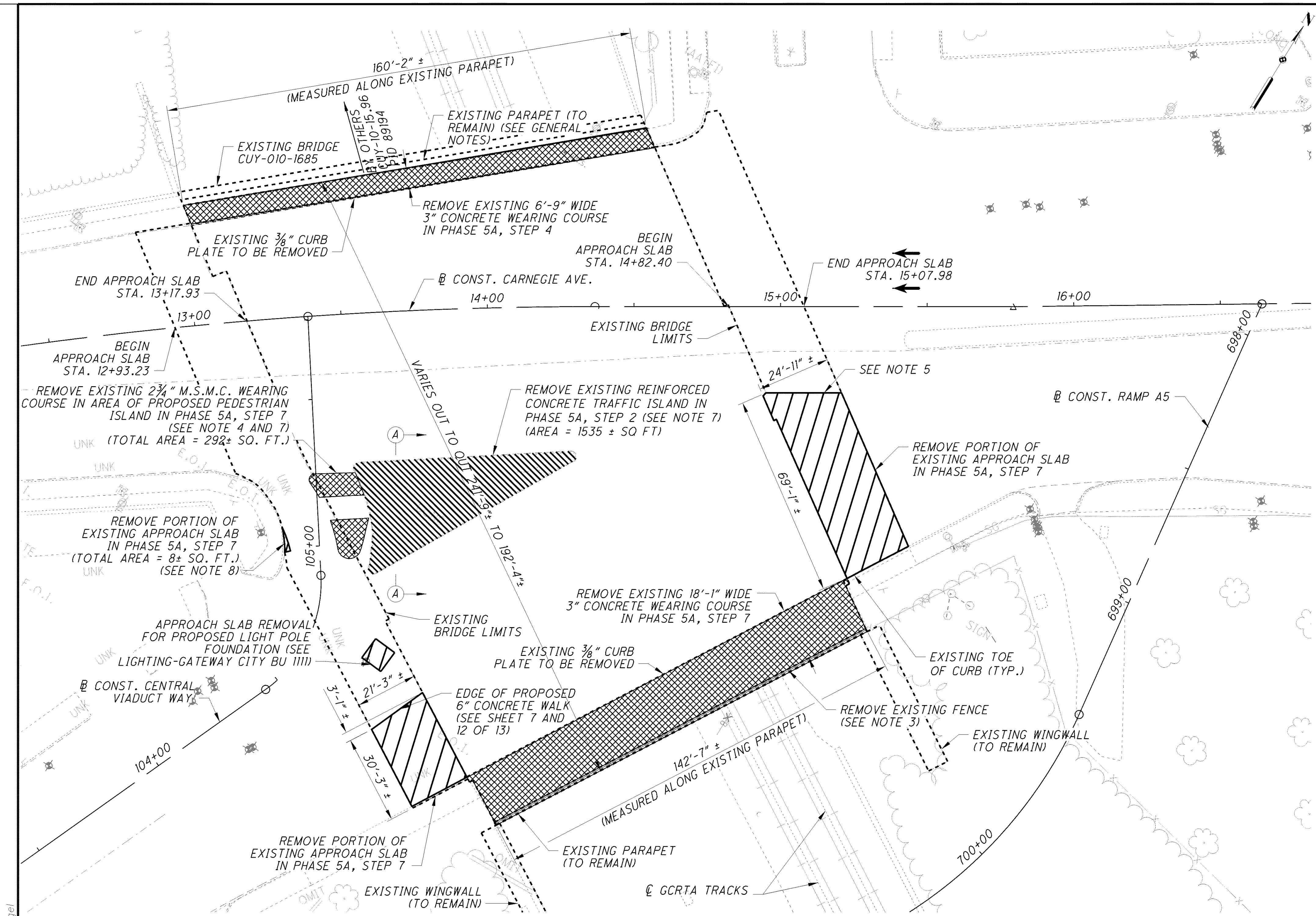
PLAN

LIST OF UTILITIES

ID	EXISTING UTILITY	PROPOSED ACTION
1	EXISTING ELECTRIC MANHOLE	≠ ADJUST TO GRADE
2	EXISTING WATER	TO REMAIN
3	EXISTING TELECOM	TO REMAIN
4	EXISTING ELECTRIC	TO REMAIN
5	EXISTING MANHOLE	≠ ADJUST TO GRADE
6	EXISTING COMBINED SEWER	TO REMAIN
7	EXISTING WATER MANHOLE	TO REMAIN
8	EXISTING CATCH BASIN	TO REMAIN
9	EXISTING GAS	TO REMAIN
10	EXISTING GAS MANHOLE	≠ ADJUST TO GRADE
11	EXISTING MANHOLE	TO REMAIN
12	EXISTING MANHOLE	≠ REPAIR TO GRADE

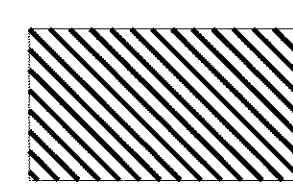
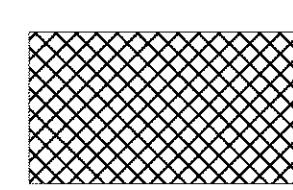
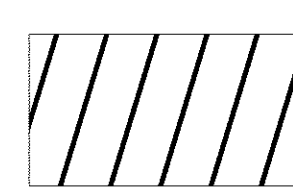
DESIGNED	PEG	CHECKED	VWR	DATE	12-07-11	STRUCTURE FILE NUMBER	1801511
DRAWN	RLH	CHECKED	VWR	REVIEWED	DBT		
NO.		RECORD DRAWINGS		DATE	06-29-2012		
DESIGN AGENCY		WASH HNTB		CUYAHOGA COUNTY		STA. 13+17.93	
BRIDGE 14		MINNERBELT BRIDGE		CITY OF CLEVELAND		STA. 14+82.40	
SITE PLAN		BRIDGE NO. CUY-10-1685		CARNEGIE AVENUE OVER GCRTA			
CUY-90-14.90		PID No. 77332 / 85531					
4		14					

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PLAN

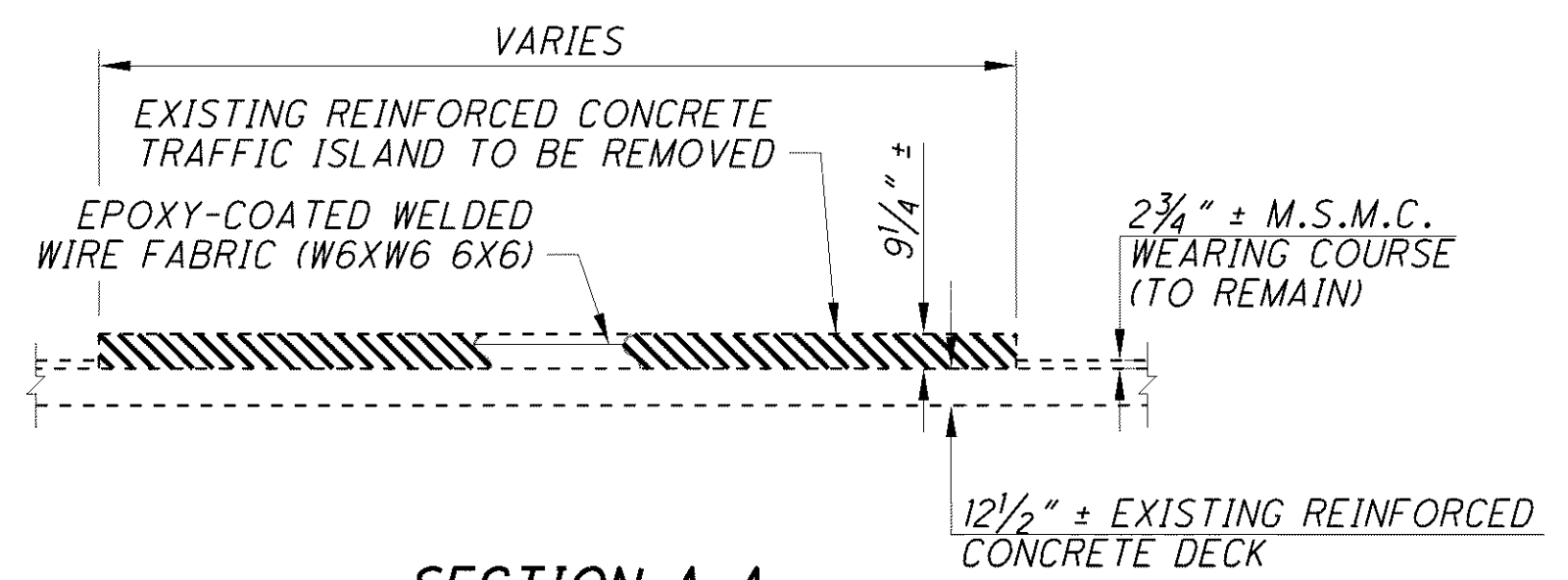
LEGEND:

-  INDICATES REMOVAL PER ITEM 202-PORCTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.
-  INDICATES EXISTING WEARING COURSE REMOVAL PER SS 847 OR SS 848.
-  INDICATES APPROACH SLAB REMOVAL PER ITEM 202-PORCTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

M.S.M.C. MICRO-SILICA MODIFIED CONCRETE

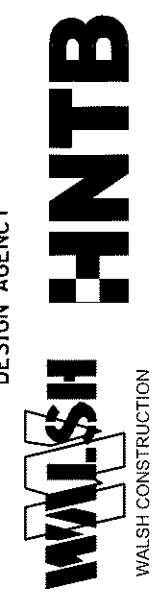
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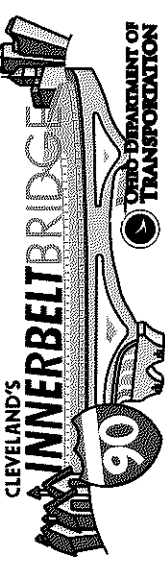
1. FOR ADDITIONAL REMOVAL DETAILS, SEE EXISTING CROSS SECTION ON SHEET 8 OF 14.
2. FOR ADDITIONAL BRIDGE AND ROADWAY GEOMETRY, SEE SHEET 4 OF 14 AND EXISTING PLANS.
3. EXISTING FENCE TO BE REMOVED FLUSH WITH TOP OF THE EXISTING PARAPET.
4. FOR GEOMETRIC LAYOUT OF PEDESTRIAN ISLAND, SEE DWG. IS-001 IN THE ROADWAY-GATEWAY BU 1010.
5. REMOVAL LIMIT BASED ON DIMENSIONS OF EXISTING MANHOLE D-8734. SEE DWG. DR-004 OF ROADWAY-GATEWAY BU 1010. CONTRACTOR SHALL ADJUST REMOVAL LIMIT IF ADDITIONAL CLEARANCE IS REQUIRED FOR PROPOSED IMPROVEMENTS.
6. REMOVAL OF APPROACH PAVEMENT BEYOND THE LIMITS OF THE APPROACH SLAB REQUIRED FOR INSTALLATION OF PROPOSED SLEEPER SLAB NOT SHOWN. SEE ROADWAY-GATEWAY BU 1010.
7. REMOVAL LIMITS OF EXISTING M.S.M.C. WEARING COURSE REQUIRED FOR PROPOSED CONSTRUCTION SHALL BE TO SAW CUT LINES. DEPTH OF SAW CUT LINE SHALL BE EQUAL TO THE DEPTH OF EXISTING M.S.M.C. WEARING COURSE AND SHALL NOT PENETRATE THE EXISTING TOP OF REINFORCED CONCRETE BRIDGE DECK.
8. LIMITS OF REMOVAL SHALL PROVIDE A MINIMUM DIMENSION OF 2 FT. FROM THE BOTTOM OF THE PROPOSED CURB LINE.



SECTION A-A

NO.	REVISIONS	DATE
	RECORD DRAWINGS	06-29-12

DESIGN AGENCY

 WALSH CONSTRUCTION

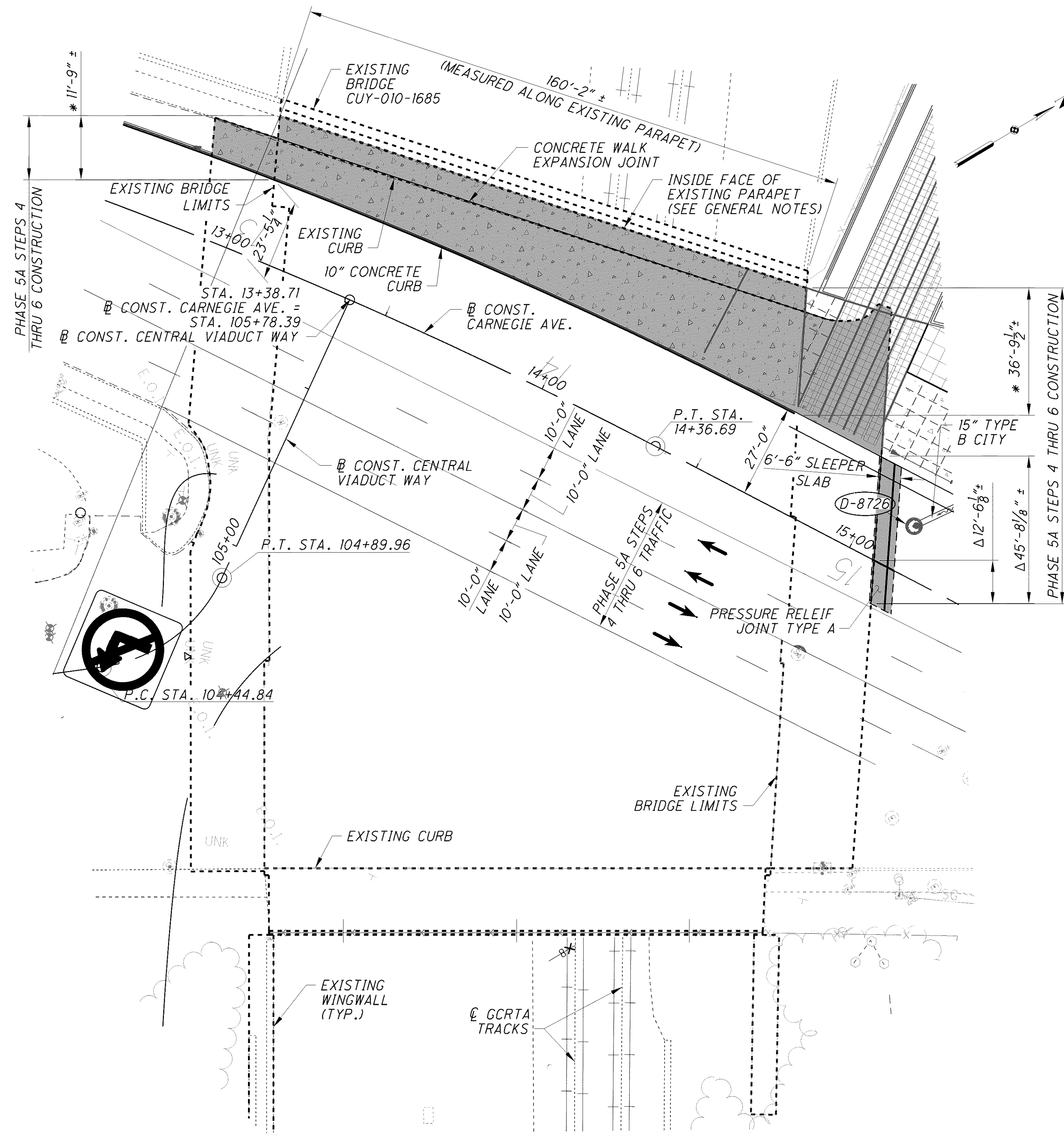
BRIDGE 14

 REMOVAL PLAN
 BRIDGE NO. CUY-10-1685
 CARNegie AVENUE OVER GCRTA

DESIGNED	DATE	REVIEWED	DATE
PEG	12-07-11	DBT	12-07-11
CHECKED	STRUCTURE FILE NUMBER	CHECKED	STRUCTURE FILE NUMBER
VWR	1801511	VWR	1801511

CUY-90-14.90
 PID No. 77332 / 85531
 5 / 14
 5 / 14

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PHASE 5A, STEPS 4 THRU 6

SUGGESTED CONSTRUCTION SEQUENCE PHASE 5A, STEPS 4 THRU 6

1. SHIFT EXISTING TRAFFIC TO THE CONFIGURATION SHOWN IN THE MOT PHASE 5 BU 1070 FOR PHASE 5A, STEPS 4, 5 AND 6.
2. PRIOR TO BEGINNING PHASE 5A STEPS 4 THRU 6 CONSTRUCTION ON THE BRIDGE, REMOVE COMPONENTS OF EXISTING BRIDGE AS SHOWN ON SHEET 5 OF 13. THIS INCLUDES REMOVAL OF THE EXISTING TRAFFIC ISLAND, 3" WEARING COURSE ON THE NORTH SIDEWALK AND THE 3/8" CURB PLATE. REMOVE EXISTING ROADWAY PAVEMENT ADJACENT TO EAST APPROACH SLAB.
3. ADJUST ANY UTILITY ACCESS POINTS TO GRADE AS SHOWN ON SHEET 4 OF 14 INCLUDING MANHOLES, VALVES, HAND HOLES, ETC.
4. INSTALL SLEEPER SLAB AT THE EAST APPROACH SLAB TO THE LIMITS SHOWN PER ODOT SCD BP-2.3 SHEET 2 OF 3.
5. CONSTRUCT 10" CONCRETE CURB MONOLITHIC WITH NORTH CONCRETE WALK AND CONCRETE FILL MATERIAL IN AREAS BELOW SAND BED FOR CONCRETE PAVERS 'C'. TOP OF CONCRETE FILL MATERIAL SHALL BE PLACED SO THE CONCRETE PAVERS 'C' CAN BE PLACED TO THE ELEVATIONS AND DETAILS SHOWN IN THESE PLANS.
6. INSTALL SAND BED FOR CONCRETE PAVERS 'C'.
7. INSTALL CONCRETE PAVERS 'C' TO THE LIMITS AND ELEVATIONS SHOWN IN THESE PLANS.

LEGEND:

- * MEASURED ALONG EXISTING BRIDGE LIMITS. SEE NOTE 3.
- Δ MEASURED ALONG EDGE OF EXISTING APPROACH SLAB. SEE NOTE 3.
- [Symbol] ITEM 608 - CONCRETE WALK, AS PER PLAN (SEE NOTE 7)
- [Symbol] ITEM 608 - WALKWAY, MISC.: CONCRETE PAVER 'C'
- [Symbol] ITEM 608 - WALKWAY, MISC.: GRANITE PAVER
- [Symbol] PROPOSED CONSTRUCTION PHASE 5A, STEPS 4 THRU 6

NOTES:

1. FOR ADDITIONAL PHASED CONSTRUCTION DETAILS, SEE SHEET 7 OF 14.
2. FOR DECK SURFACE ELEVATIONS AND ADDITIONAL PROPOSED BRIDGE CONSTRUCTION GEOMETRY, SEE SHEET 11 OF 14.
3. CONTRACTOR TO VERIFY LOCATION AND DIMENSIONS OF EXISTING BRIDGE AND APPROACH SLAB PRIOR TO CONSTRUCTION.
4. FOR SLEEPER SLAB DETAILS, SEE ODOT SCD BP-2.3, SHEET 2 OF 3.
5. FOR LANDSCAPING DETIALS SEE LS-006 OF THE ROADWAY-GATEWAY BU 1010.
6. THICKNESS OF PROPOSED CONCRETE WALK OVER EXISTING SIDEWALK SLAB WILL VARY BASED ON EXISTING BRIDGE DECK CROSS SLOPE, SIDEWALK CROSS SLOPE AND 10" CONCRETE CURB LAYOUT.
7. CONCRETE FOR ITEM 608, CONCRETE WALK SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.

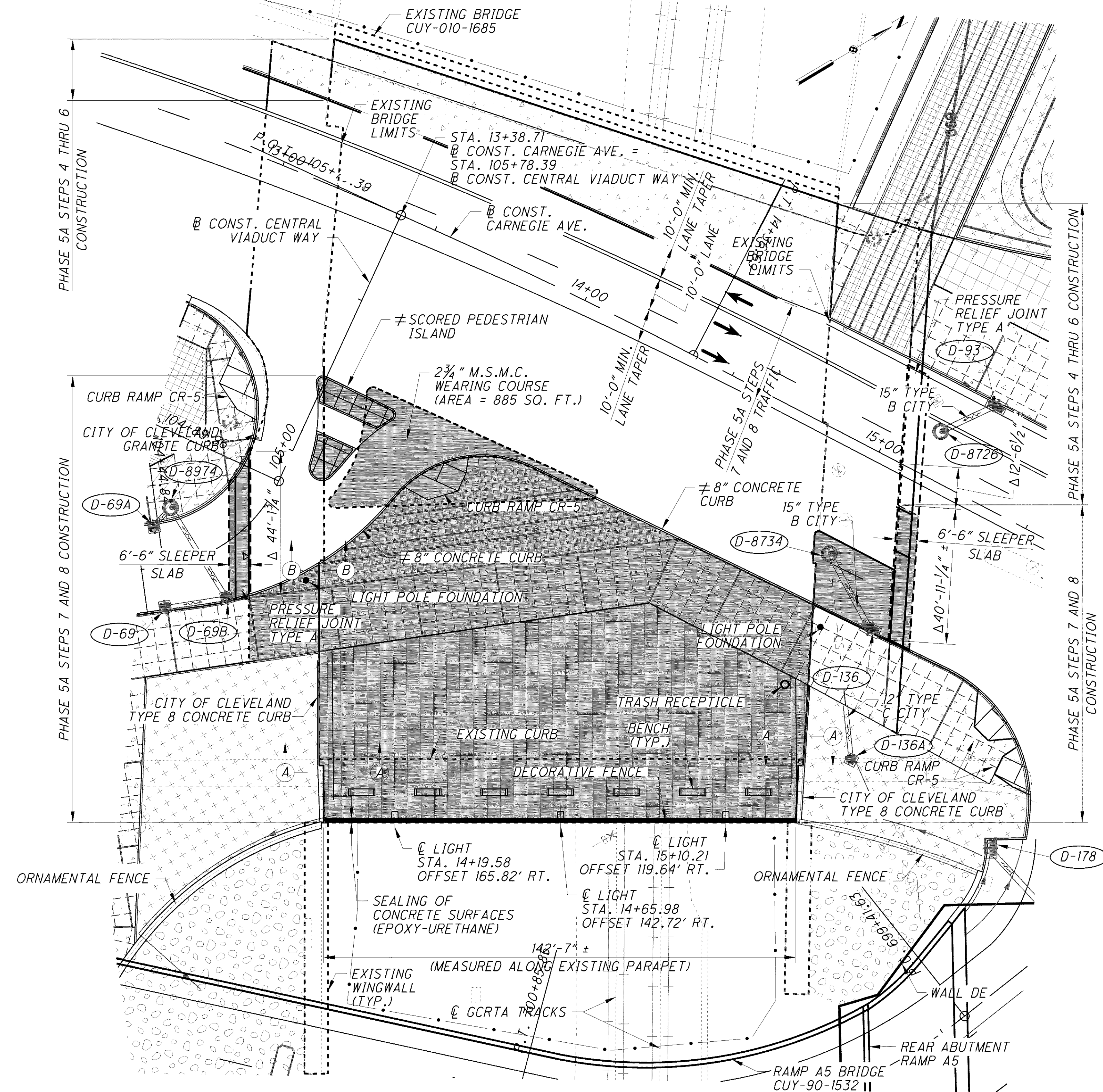
DESIGNED PEG	CHECKED VWR	DRAWN ENH	REVIEWED DBT	DATE	NO.	REVISIONS
				12-07-11		
				BRIDGE 14	DESIGN AGENCY	
					WASH HNTB	
					WALSH CONSTRUCTION	
					CLEVELAND'S	
					KUMMERBELT BRIDGE	
					OHIO TURNPIKE	
					PHASED CONSTRUCTION PLAN-1	
					BRIDGE NO. CUY-10-1685	
					CARNegie AVENUE OVER GCRTA	
					CUY-90-14.90	
					PID No. 77332 / 85531	
					6/14	
					6/14	

SUGGESTED CONSTRUCTION SEQUENCE PHASE 5A, STEPS 7 AND 8

1. SHIFT EXISTING TRAFFIC TO THE CONFIGURATION SHOWN IN THE MOT PHASE 5 BU 1070 FOR PHASE 5A, STEPS 7 AND 8.
2. PRIOR TO BEGINNING PHASE 5A STEPS 7 AND 8 CONSTRUCTION ON THE BRIDGE, REMOVE COMPONENTS OF EXISTING BRIDGE AS SHOWN ON SHEET 5 OF 14. THIS INCLUDES REMOVAL OF THE WEARING COURSE UNDER THE PEDESTRIAN ISLAND, 3" WEARING COURSE ON THE SOUTH SIDEWALK AND THE 3/8" CURB PLATE. REMOVE EXISTING ROADWAY PAVEMENT ADJACENT TO EAST APPROACH SLAB AND WEST APPROACH SLAB (CENTRAL VIADUCT WAY ONLY).
3. ADJUST ANY UTILITY ACCESS POINTS TO GRADE AS SHOWN ON SHEET 4 OF 14 INCLUDING MANHOLES, VALVES, HAND HOLES, ETC.
4. INSTALL 15" TYPE B CITY, 12" TYPE C CITY, D-8734, D-136 AND D-136A.
5. INSTALL SLEEPER SLABS TO THE LIMITS SHOWN PER ODOT SCD BP-2.3 SHEET 2 OF 3.
6. CONSTRUCT APPROACH SLAB AT EAST ABUTMENT TO THE LIMITS SHOWN.
7. CONSTRUCT LIGHT POLE FOUNDATIONS LOCATED NEAR EXISTING BRIDGE LIMITS.
8. CONSTRUCT 8" CONCRETE CURB MONOLITHIC WITH SOUTH CONCRETE WALK AND CONCRETE FILL MATERIAL IN AREAS BELOW MORTAR BED FOR GRANITE PAVERS AND SAND BED FOR CONCRETE PAVERS 'C'. TOP OF CONCRETE FILL MATERIAL SHALL BE PLACED SO THE CONCRETE PAVERS 'C' AND GRANITE PAVERS CAN BE PLACED TO THE ELEVATIONS AND DETAILS SHOWN IN THESE PLANS.
9. CONSTRUCT PEDESTRIAN ISLAND.
10. INSTALL SAND BED FOR CONCRETE PAVERS 'C' AND MORTAR BED FOR GRANITE PAVERS.
11. INSTALL CONCRETE PAVERS 'C' AND GRANITE PAVERS TO THE LIMITS AND ELEVATIONS SHOWN IN THESE PLANS.
12. PLACE 2 3/4" M.S.M.C. IN AREA OF REMOVED TRAFFIC ISLAND.
13. APPLY SEALER TO EXISTING SOUTH PARAPET TO LIMITS SHOWN ON SHEET 8 OF 14. INSTALL BENCHES AND DECORATIVE FENCE.

LEGEND:

- * MEASURED ALONG EXISTING BRIDGE LIMITS. SEE NOTE 3.
 - Δ MEASURED ALONG EDGE OF EXISTING APPROACH SLAB. SEE NOTE 3.
 - ≠ FOR GEOMETRIC LAYOUT OF CURBS AND PEDESTRIAN ISLAND SEE DWG. IS-001 AND IS-002 IN THE ROADWAY-GATEWAY BU 1010.
- M.S.M.C. MICRO-SILICA MODIFIED CONCRETE
- ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FILTER FABRIC, T=24"
 - ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
 - ITEM 608 - CONCRETE WALK, AS PER PLAN (SEE NOTE 9)
 - ITEM 608 - 8" CONCRETE WALK, AS PER PLAN
 - ITEM 608 - WALKWAY, MISC.: CONCRETE PAVER 'C'
 - ITEM 608 - WALKWAY, MISC.: GRANITE PAVER
 - PROPOSED CONSTRUCTION - PHASE 5A, STEPS 7 AND 8



PHASE 5A, STEPS 7 AND 8

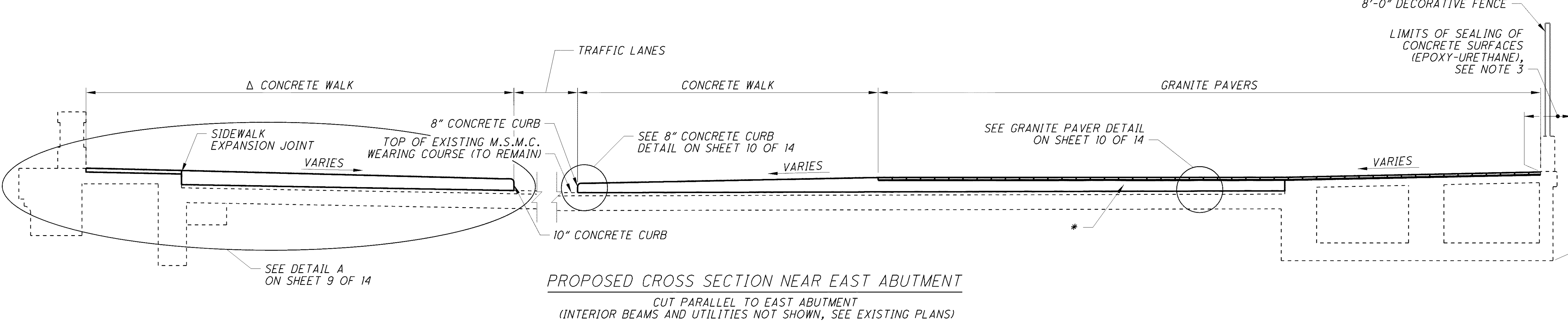
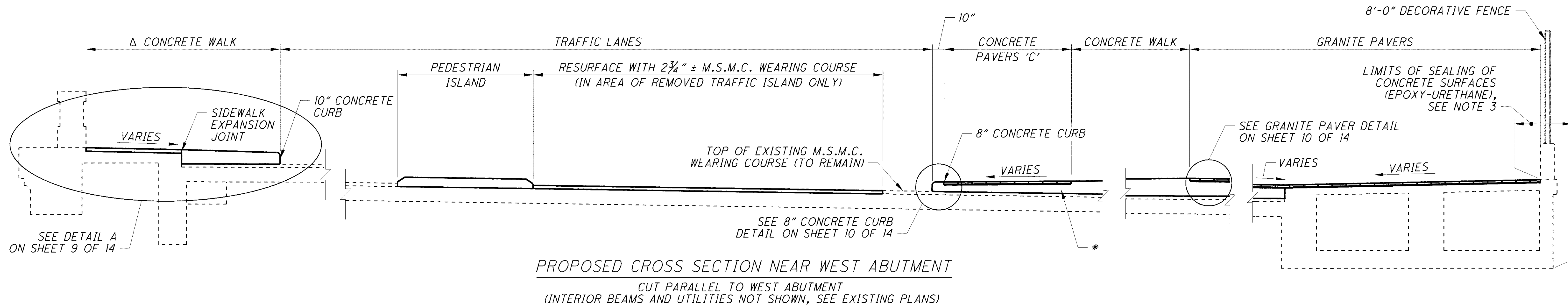
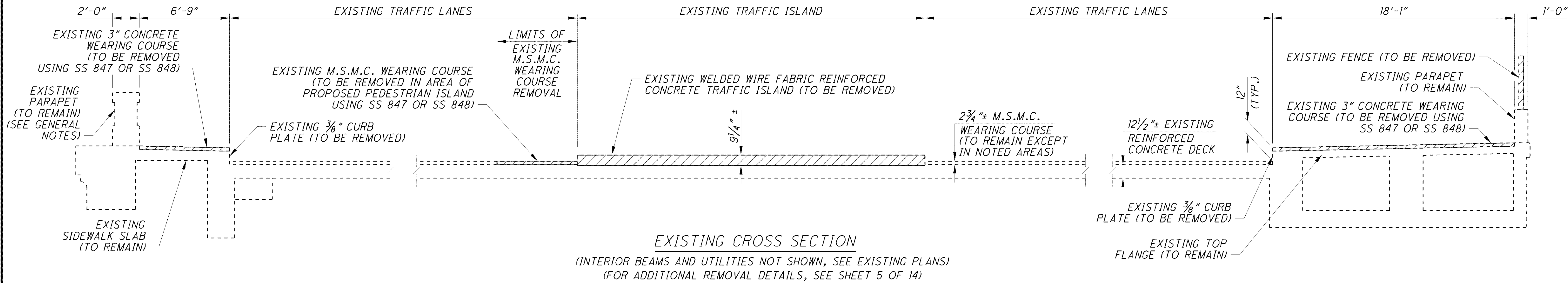
NOTES:

1. FOR ADDITIONAL PHASED CONSTRUCTION DETAILS, SEE SHEET 6 OF 14.
2. FOR DECK SURFACE ELEVATIONS AND ADDITIONAL PROPOSED BRIDGE CONSTRUCTION GEOMETRY, SEE SHEET 11 OF 14.
3. CONTRACTOR TO VERIFY LOCATION AND DIMENSIONS OF EXISTING BRIDGE AND APPROACH SLAB PRIOR TO CONSTRUCTION.
4. FOR SLEEPER SLAB DETAILS, SEE ODOT SCD BP-2.3, SHEET 2 OF 3.
5. FOR LANDSCAPING DETAILS SEE LS-006 OF THE ROADWAY-GATEWAY BU 1010.
6. FOR CURB RAMP DETAILS, SEE DWG. CD-001 OF ROADWAY-GATEWAY BU 1010.
7. FOR ORNAMENTAL FENCE DETAILS, SEE DWG. LD-006 OF THE ROADWAY-GATEWAY BU 1010.
8. FOR DETAILS OF LIGHT FOUNDATIONS NOT LOACTED ON THE BRIDGE, SEE THE LIGHTING-GATEWAY CITY BU 1111.
9. CONCRETE FOR ITEM 608, CONCRETE WALK SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.
10. FOR SECTIONS A-A AND B-B, SEE SHEET 10 OF 14.
11. FOR PROPOSED APPROACH SLAB DETAILS, SEE SHEET 14 OF 14.

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DESIGNED PEG	CHECKED VWR	DATE	12-07-11
		REVIEWED DBT	STRUCTURE FILE NUMBER 1801511
BRIDGE 14	DESIGN AGENCY WASH HNTB WALSH HNTB CONSTRUCTION	NO.	RECORD DRAWINGS
BRIDGE NO. CUY-10-1685 CARNEGIE AVENUE OVER GCRTA		NO.	REVISIONS
PHASED CONSTRUCTION PLAN-2		NO.	REVISIONS
PID No. 77332 / 85531		NO.	REVISIONS
CUY-90-14.90		NO.	REVISIONS
7/14		NO.	REVISIONS
14		NO.	REVISIONS

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LEGEND:

M.S.M.C. = MICRO-SILICA MODIFIED CONCRETE

* CONCRETE FILL MATERIAL BELOW MORTAR BED FOR GRANITE PAVERS AND SAND BED FOR CONCRETE PAVERS 'C' SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.

Δ THICKNESS OF PROPOSED CONCRETE WALK OVER EXISTING SIDEWALK SLAB WILL VARY BASED ON EXISTING BRIDGE DECK CROSS SLOPE, SIDEWALK CROSS SLOPE AND 10" CONCRETE CURB LAYOUT.

NOTES:

1. FOR ADDITIONAL INFORMATION ON GRANITE PAVERS, CONCRETE WALK, CONCRETE PAVERS 'C', AND THE PEDESTRIAN ISLAND SEE DWG. LS-006 IN THE ROADWAY-GATEWAY BU 1010.
2. FOR ADDITIONAL INFORMATION ON DECORATIVE FENCE SEE SHEETS 12 AND 13 OF 14.
3. FINISH COAT COLOR FOR EXISTING SOUTH PARAPET TO REMAIN SHALL BE SW 7022 (ALPACA).
4. FOR ADDITIONAL BRIDGE DECK AND SURFACE GEOMETRY, SEE SHEET 11 OF 14.

5. FOR PEDESTRIAN ISLAND DETAILS, SEE SHEET 10 OF 14.

6. CONCRETE FOR 8" CURB, 10" CURB, CONCRETE WALK AND PEDESTRIAN ISLAND SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.

7. FOR JOINT LAYOUT OF CONCRETE WALK, SEE LANDSCAPE PLANS IN ROADWAY-GATEWAY BU 1010.

8. THE MAXIMUM TOTAL THICKNESS OF CONCRETE, MORTAR OR SAND BEDDING, AND PAVERS SHALL NOT EXCEED 15 INCHES.

NO.	REVISIONS	DATE
	RECORD DRAWINGS	1-10-12

DESIGN AGENCY

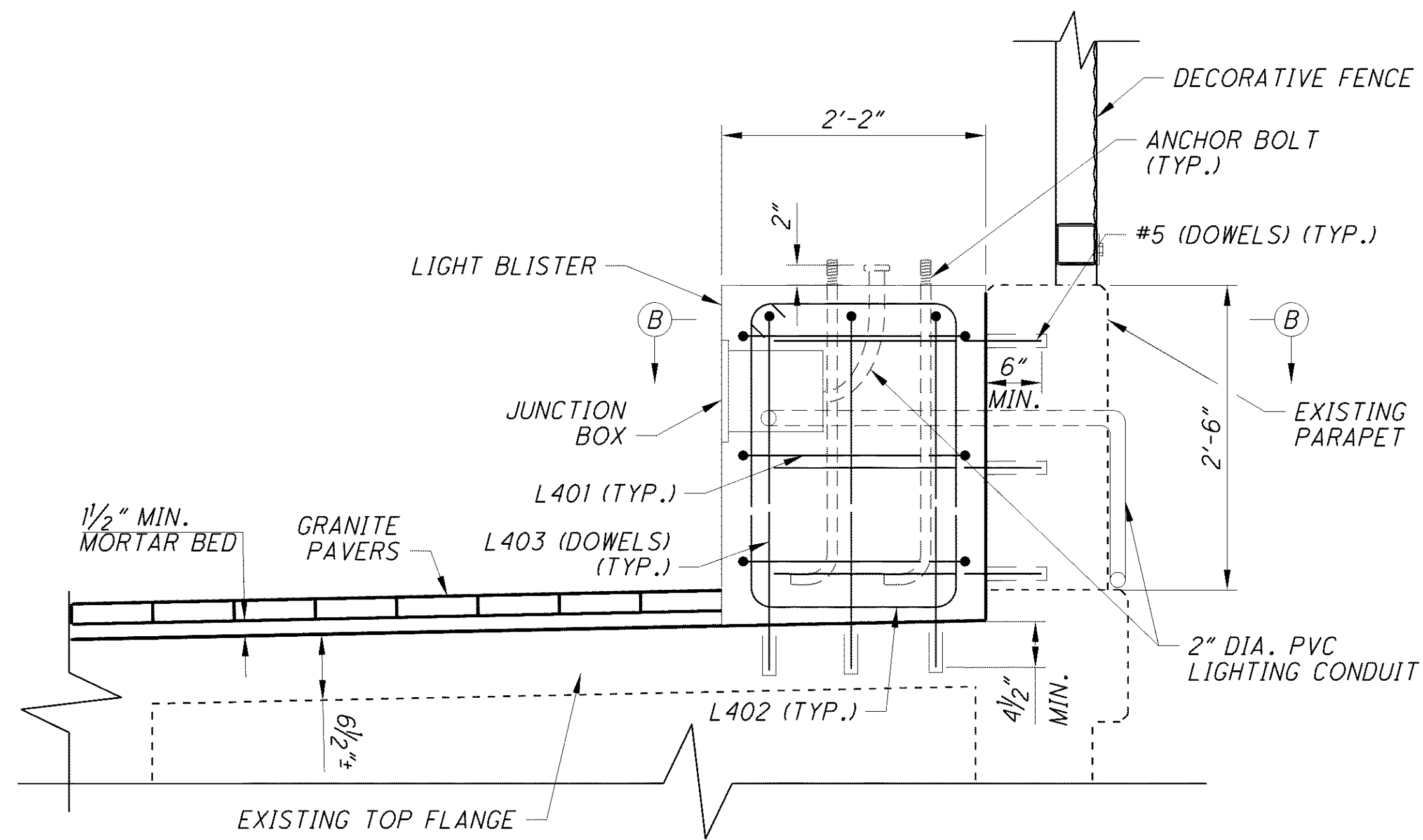
 WALSH HNTB
 WALSH CONSTRUCTION

BRIDGE 14

 DECK CROSS SECTIONS
 BRIDGE NO. CUY-10-1685
 CARNEGIE AVENUE OVER GCRTA

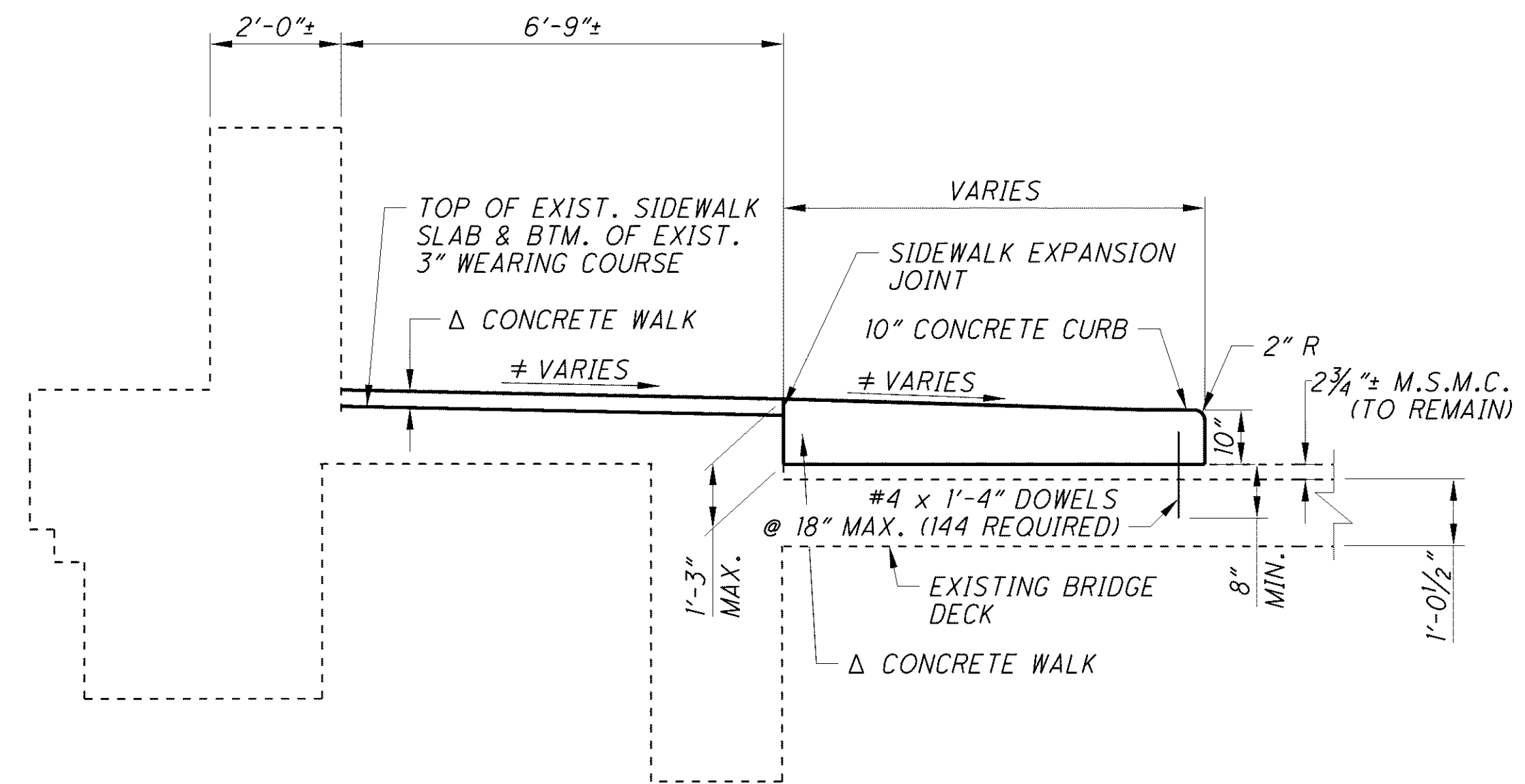
DESIGNED	DATE
PEG	12-07-11
CHECKED	STRUCTURE FILE NUMBER
VWR	1801511

CUY-90-14.90
 PID No. 77332 / 85531
 8 / 14
 8 / 14



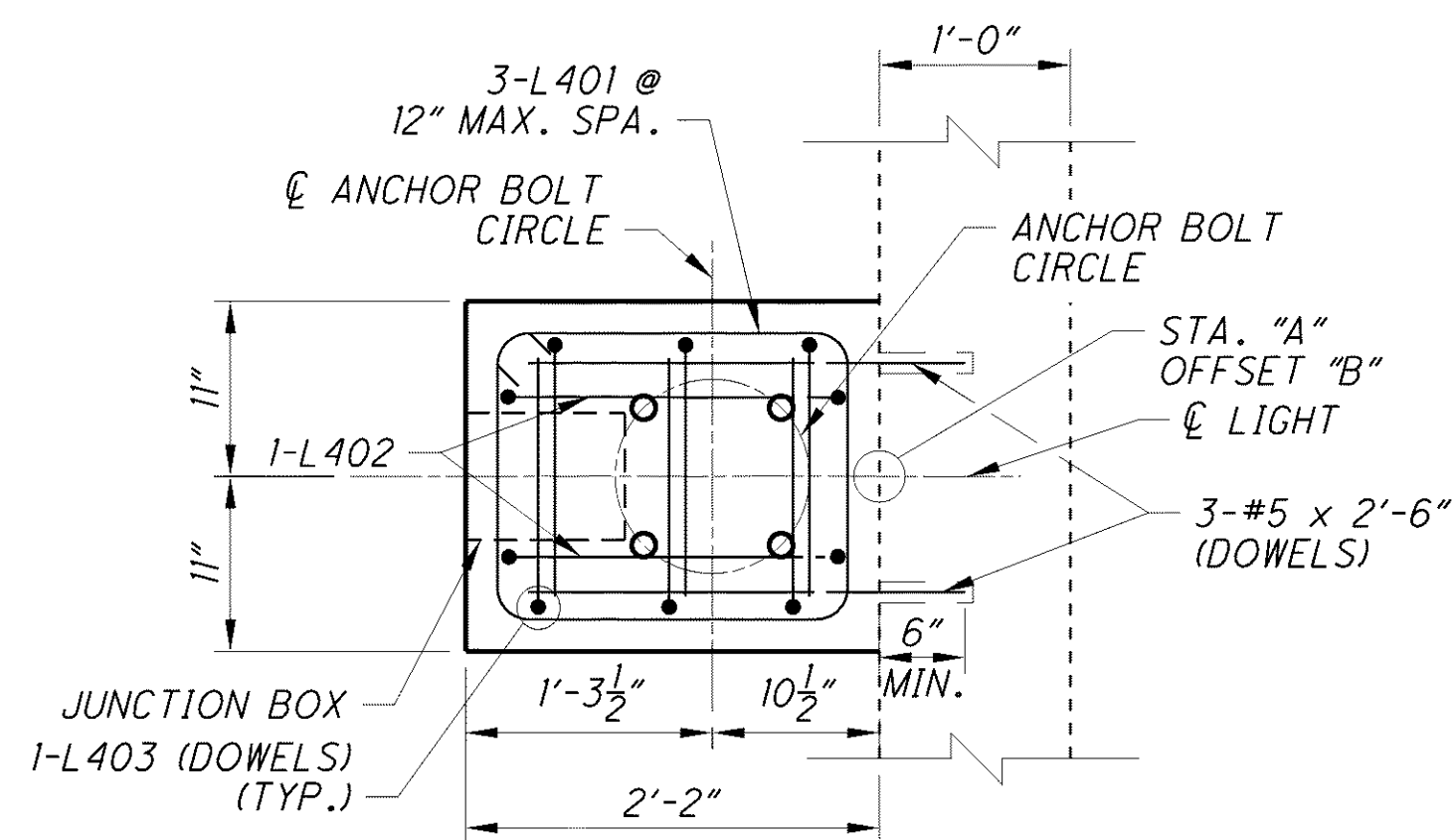
LIGHT BLISTER DETAIL

(EXISTING 3" CONCRETE WEARING COURSE SHOWN AS REMOVED)
 (LIMITS OF SEALING CONCRETE SURFACES NOT SHOWN, SEE GENERAL NOTES)



DETAIL A

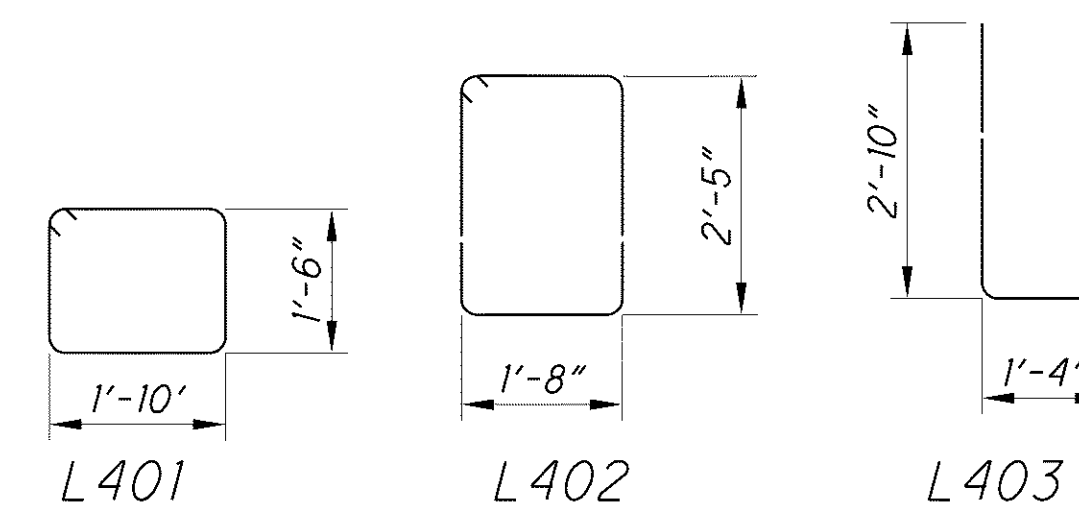
(EXISTING 3" WEARING COURSE SHOWN AS REMOVED.)



SECTION B-B

(LIGHTING CONDUITS NOT SHOWN)

LIGHT BLISTER LOCATION	
STA. "A"	OFFSET "B"
14+19.58	165.82" RT.
14+65.98	142.72" RT.
15+10.21	119.64" RT.



LEGEND:

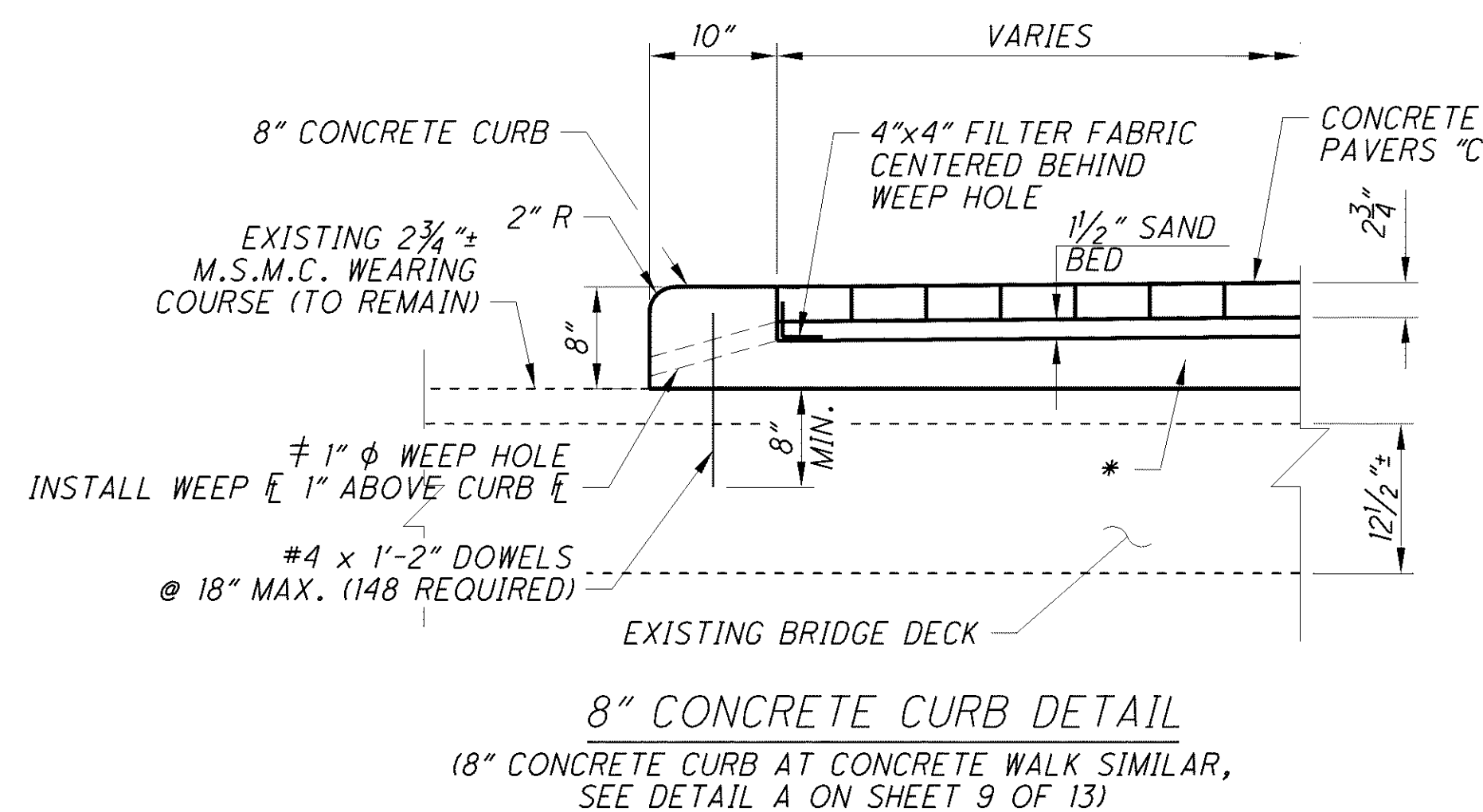
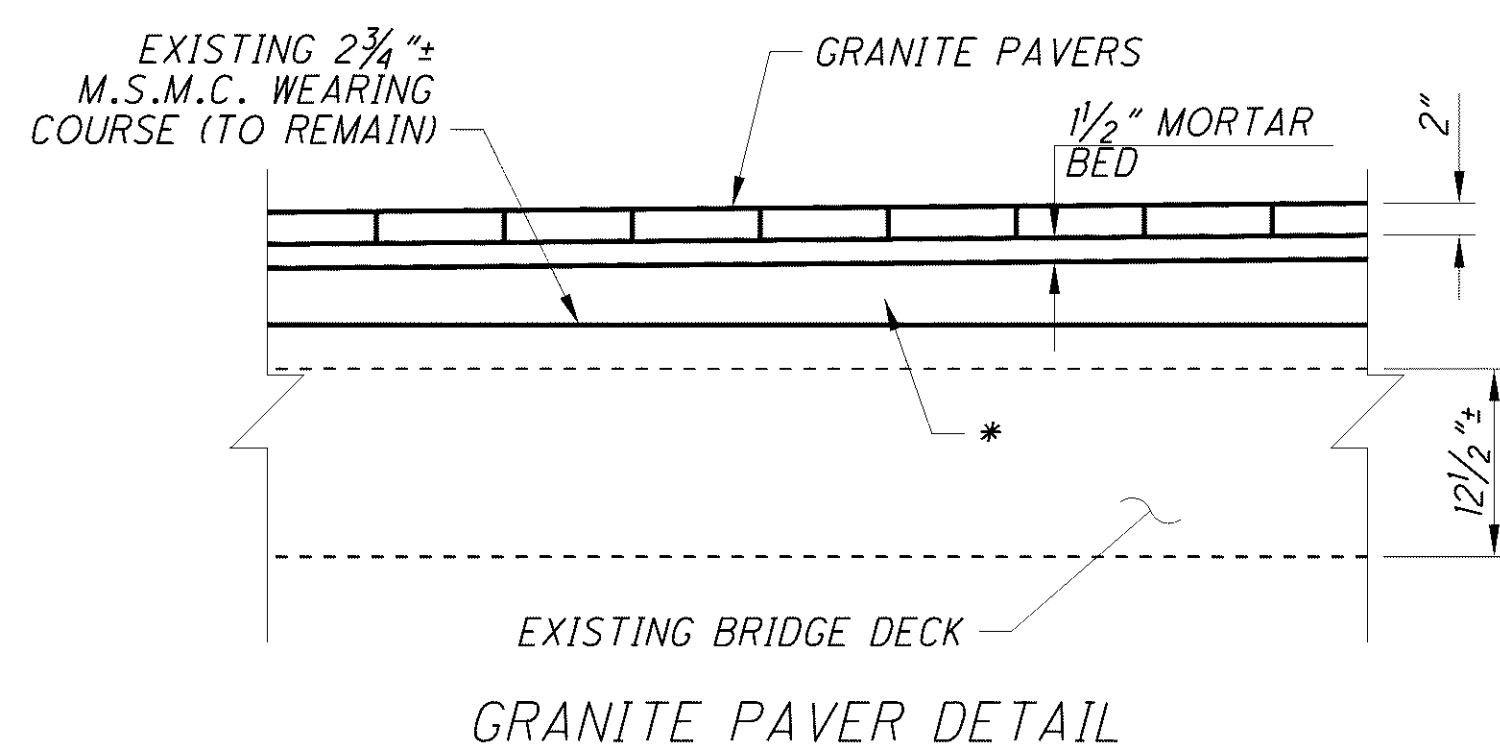
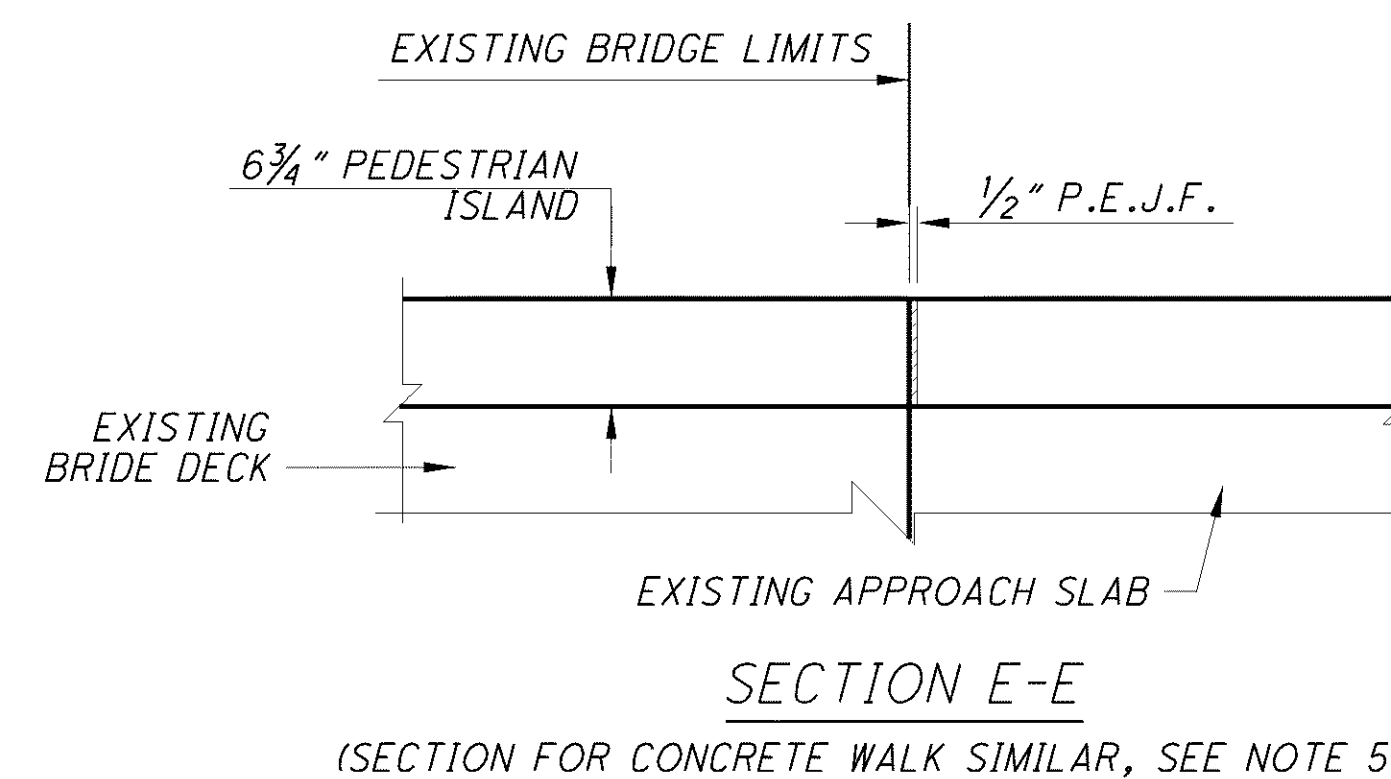
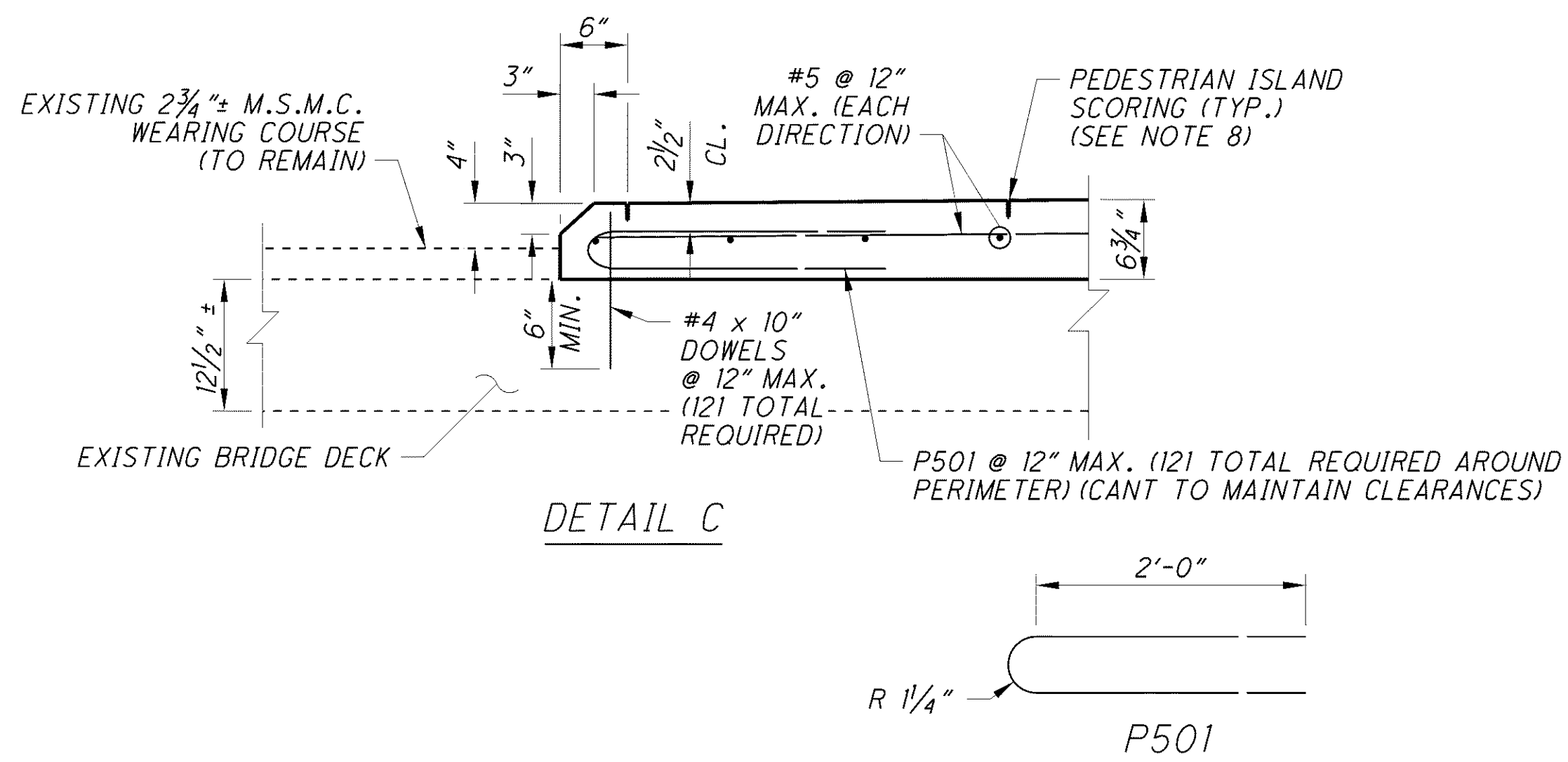
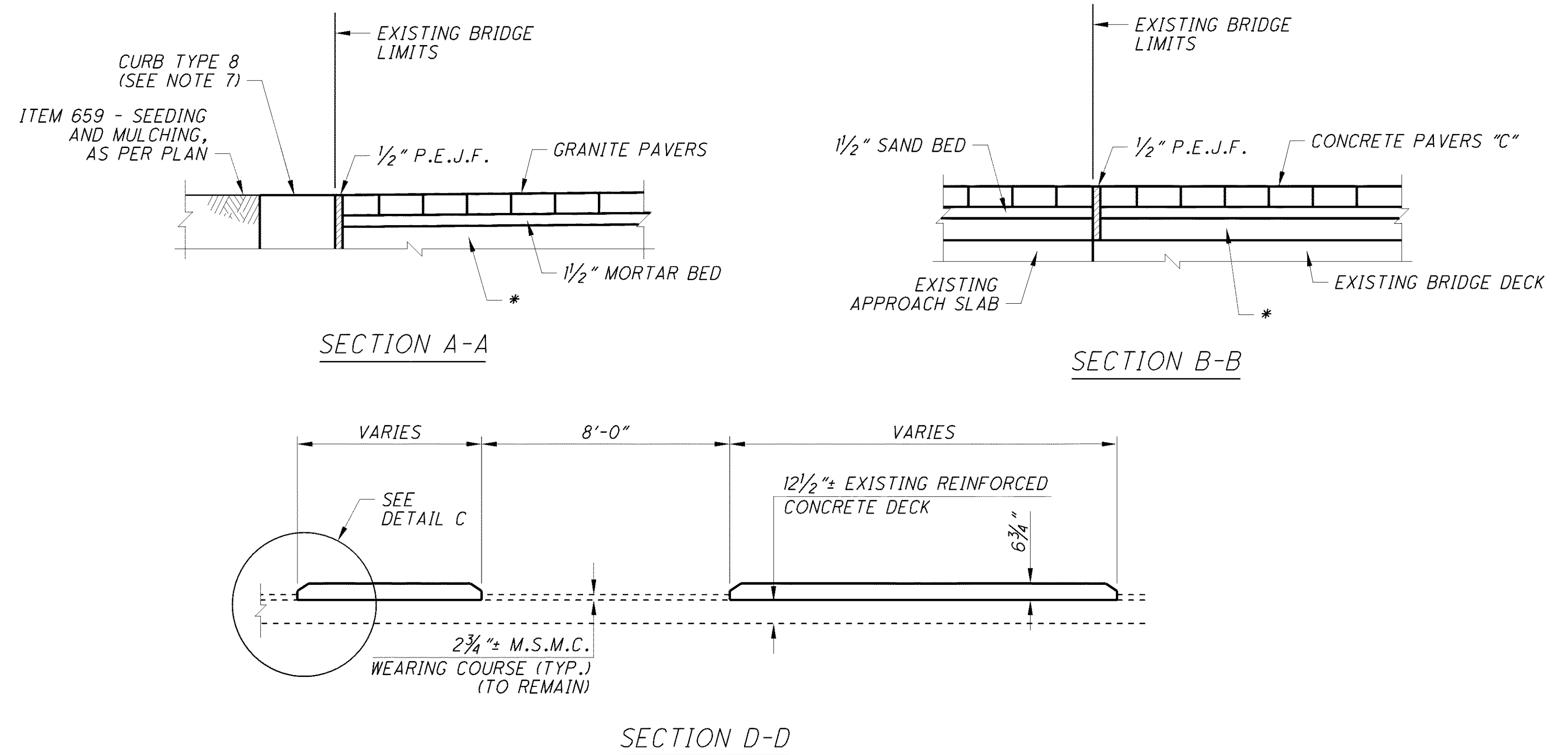
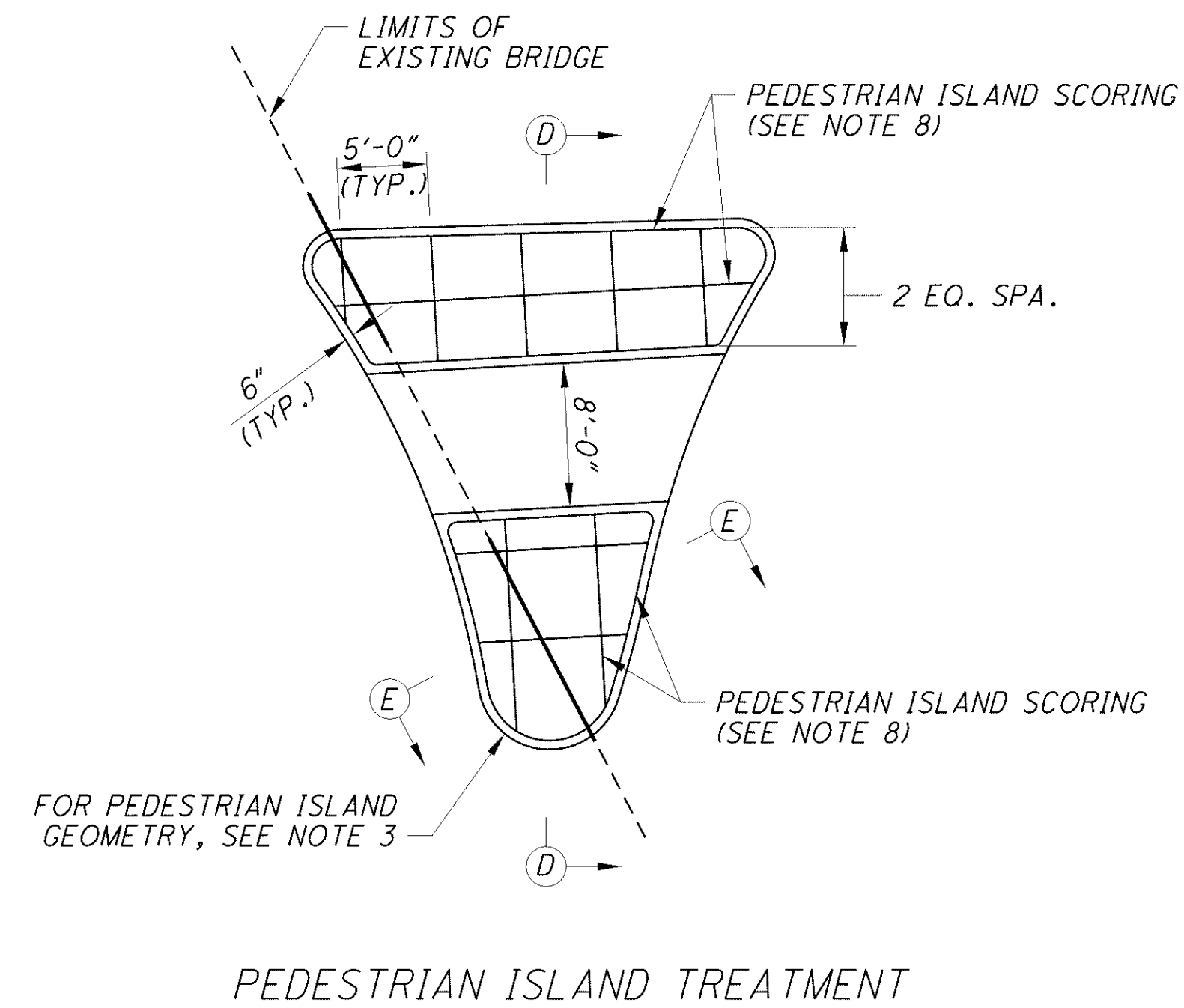
- ≠ SLOPE WILL VARY FROM 2.0% MAX. TO 0.5% MIN. BASED ON EXISTING BRIDGE DECK CROSS SLOPE, SIDEWALK CROSS SLOPE, AND 10" CONCRETE CURB LAYOUT. MAXIMUM DEPTH OF PROPOSED CONCRETE AT ANY LOCATION SHALL BE 15".
- Δ THICKNESS OF PROPOSED CONCRETE WALK SHALL VARY BASED ON EXISTING BRIDGE DECK CROSS SLOPE, SIDEWALK CROSS SLOPE, AND 10" CONCRETE CURB LAYOUT. MINIMUM ALLOWABLE THICKNESS IS 3".

NOTES:

1. FOR LOCATION OF DETAIL A, SEE SHEET 8 OF 14.
2. EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
3. CONCRETE FOR 8" CURBS, 10" CURBS, CONCRETE WALK AND PEDESTRIAN ISLAND SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.
4. MAXIMUM TOTAL THICKNESS OF CONCRETE, MORTAR OR SAND BEDDING, AND PAVERS SHALL NOT EXCEED 15".
5. FOR SIDEWALK JOINT LAYOUT SEE LANDSCAPE PLANS IN THE ROADWAY-GATEWAY BU 1010.
6. FOR ADDITIONAL LIGHTING AND STRUCTURE GROUNDING DETAILS NOT SHOWN, SEE ODOT STD. DWG HL-20.14 AND HL-50.11.

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DESIGNED PEG	CHECKED VWR	DRAWN ENH	REVIEWED DBT	DATE 12-07-11	 WALSH <small>WALSH CONSTRUCTION</small>	BRIDGE 14 DECK DETAILS - 1 BRIDGE NO. CUY-10-1685 CARNEGIE AVENUE OVER GCRTA
				STRUCTURE FILE NUMBER 1801511		
NO.	RECORD DRAWINGS	REVISIONS	DATE			



LEGEND:

P.E.J.F. PREFORMED EXPANSION JOINT FILLER

M.S.M.C. MICRO-SILICA MODIFIED CONCRETE

* CONCRETE FILL MATERIAL BELOW MORTAR BED FOR GRANITE PAVERS AND SAND BED FOR CONCRETE PAVERS 'C' SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.

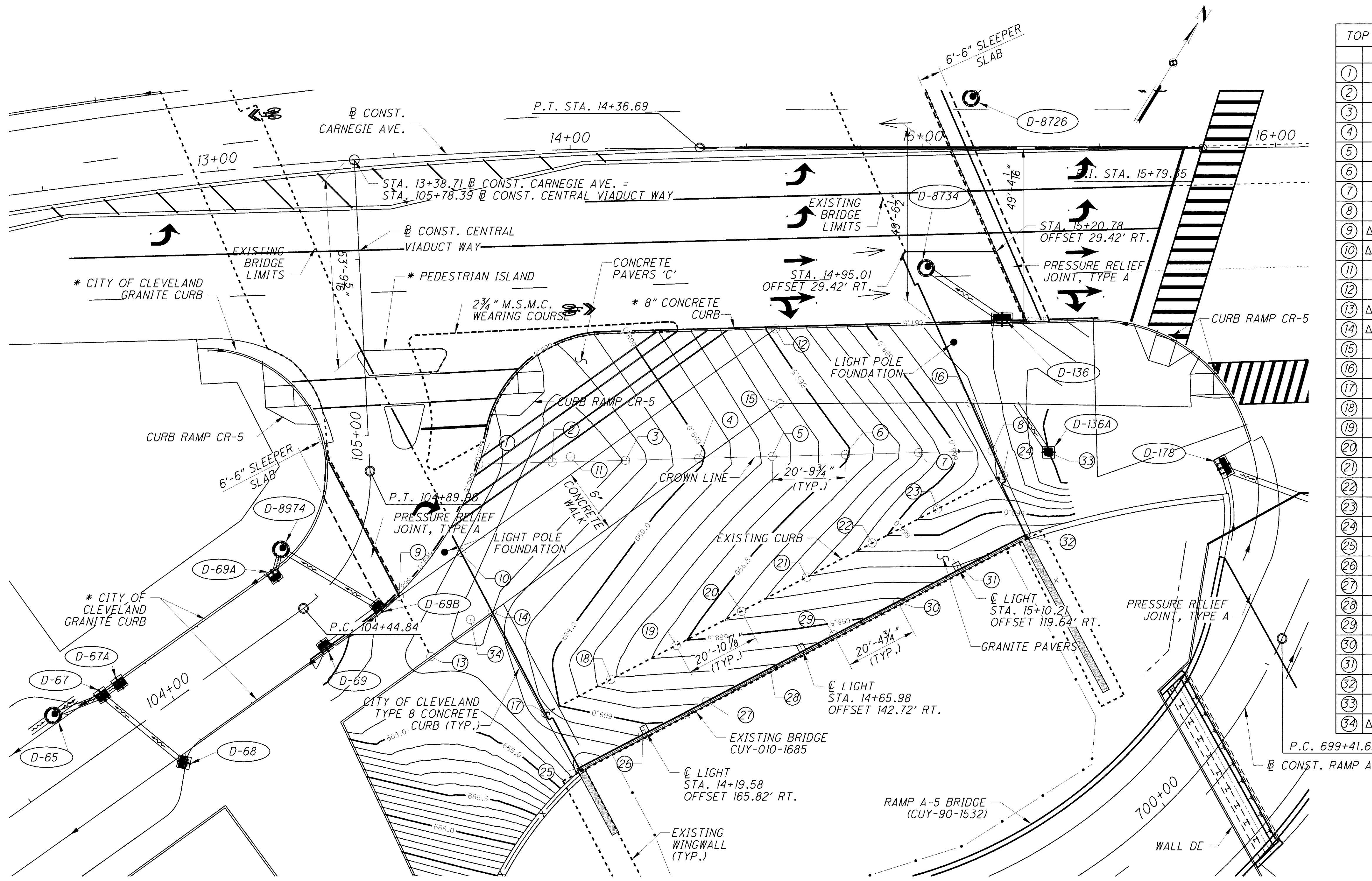
± 1/2" φ WEEP HOLES ONLY REQUIRED ADJACENT TO SAND BED BELOW CONCRETE PAVERS 'C'. SPACE WEEP HOLES ON 2'-0" CENTERS.

NOTES:

- FOR LOCATION OF 8" CONCRETE CURB DETAIL AND GRANITE PAVER DETAIL, SEE SHEET 8 OF 14.
- FOR ADDITIONAL INFORMATION ON GRANITE PAVERS, CONCRETE WALK, CONCRETE PAVERS "C", AND THE PEDESTRIAN ISLAND, SEE DWG. LS-006 IN THE ROADWAY-GATEWAY BU 1010.
- FOR GEOMETRIC LAYOUT OF CURBS AND PEDESTRIAN ISLAND, SEE DWG. IS-001 AND IS-002 IN THE ROADWAY-GATEWAY BU 1010.
- CONCRETE FOR 8" CURBS, 10" CURBS, CONCRETE WALK AND PEDESTRIAN ISLAND SHALL MEET THE MATERIAL SPECIFICATION OF ITEM 511, CLASS S CONCRETE, 4500 PSI.
- FOR CONCRETE WALK LOCATIONS AT EXISTING BRIDGE LIMITS, 1/2" P.E.J.F. SHALL EXTEND FROM TOP OF WALK DOWN TO TOP OF EXISTING BRIDGE DECK.
- FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE SHEET 7 OF 14.
- FOR ADDITIONAL CURB TYPE 8 DETAILS, SEE DWG. LD-003 IN THE ROADWAY-GATEWAY BU 1010.
- SCORING LINES OF PEDESTRIAN ISLAND SHALL BE A 5 FT. BY 5 FT. GRID PATTERN EXCEPT AS NOTED. SAW CUT LINES SHALL BE 1/8" WIDE BY 1/2" DEEP.

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DESIGNED	PEG	CHECKED	VWR	DATE	12-07-11
DRAWN	ENH	CHECKED	VWR	REVIEWED	DBT
NO.	NO.	NO.	NO.	RECORD DRAWINGS	06-29-12
BRIDGE 14					
DECK DETAILS - 2					
BRIDGE NO. CUY-10-1685 CARNegie AVENUE OVER GCRTA					
				DATE	06-29-12
				REVISIONS	
				NO.	
				DESIGN AGENCY	WALSH HNTB
				CONTRACT NO.	CUY-10-1685
				PROJECT NO.	77332 / 85531
				DATE	12-07-11
				STRUCTURE FILE NUMBER	1801511
				PROJECT FILE NUMBER	1801511
				PROJECT TITLE	CUY-90-14.90
				PROJECT NUMBER	PID No. 77332 / 85531
				SCALE	10/14
				DATE	10/14



TOP OF PAVERS OR 6" CONCRETE WALK			
	STA.	OFFSET	ELEV.
1	13+69.95	88.23' RT.	669.11
2	13+92.88	86.95' RT.	669.34
3	14+15.03	87.43' RT.	669.27
4	14+37.16	87.58' RT.	669.01
5	14+57.97	87.58' RT.	668.77
6	14+78.78	87.58' RT.	668.50
7	14+99.59	87.58' RT.	668.20
8	15+20.40	87.58' RT.	667.80
9	Δ 104+62.59	Δ 17.80' RT.	669.11
10	Δ 104+74.83	Δ 28.76' RT.	669.21
11	13+97.70	87.08' RT.	669.36
12	14+58.21	51.30' RT.	668.45
13	Δ 104+57.09	Δ 35.02' RT.	669.20
14	Δ 104+67.79	Δ 43.09' RT.	669.31
15	14+59.47	72.51' RT.	668.65
16	15+13.63	72.34' RT.	667.82
17	13+87.46	159.64' RT.	669.15
18	14+08.54	150.51' RT.	668.73
19	14+29.30	141.07' RT.	668.53
20	14+48.56	131.41' RT.	668.40
21	14+67.09	121.74' RT.	668.21
22	14+85.62	112.07' RT.	668.06
23	15+04.16	102.40' RT.	667.90
24	15+22.69	92.73' RT.	667.77
25	13+97.70	175.40' RT.	669.40
26	14+18.44	166.32' RT.	669.08
27	14+38.63	156.99' RT.	668.88
28	14+56.71	147.56' RT.	668.71
29	14+74.79	138.12' RT.	668.56
30	14+92.87	128.69' RT.	668.41
31	15+10.95	119.25' RT.	668.25
32	15+29.02	109.82' RT.	668.20
33	15+35.68	86.37' RT.	667.50
34	Δ 104+65.35	38.52' RT.	669.33

PLAN

NOTES:

1. ALL STATIONS AND OFFSETS ARE RELATIVE TO @ CONST. CARNEGIE AVE. UNLESS NOTED OTHERWISE.
2. FOR ADDITIONAL BRIDGE AND ROADWAY GEOMETRY, SEE SHEET 4 OF 14.
3. FOR BRIDGE DECK CROSS SECTIONS AND ADDITIONAL DETAILS, SEE SHEETS 8 THRU 10 OF 14.
4. FOR LANDSCAPING DETAILS SEE LS-006 OF THE ROADWAY-GATEWAY BU 1010. GRANITE PAVERS, CONCRETE PAVERS 'C', CONCRETE WALK AND OTHER LANDSCAPING DETAILS NOT SHOWN FOR CLARITY.
5. FOR CURB RAMP DETAILS, SEE DWG. CD-001 OF ROADWAY-GATEWAY BU 1010.
6. FOR DETAILS OF LIGHT FOUNDATIONS NOT LOCATED ON THE BRIDGE, SEE THE LIGHTING-GATEWAY CITY BU 1111.

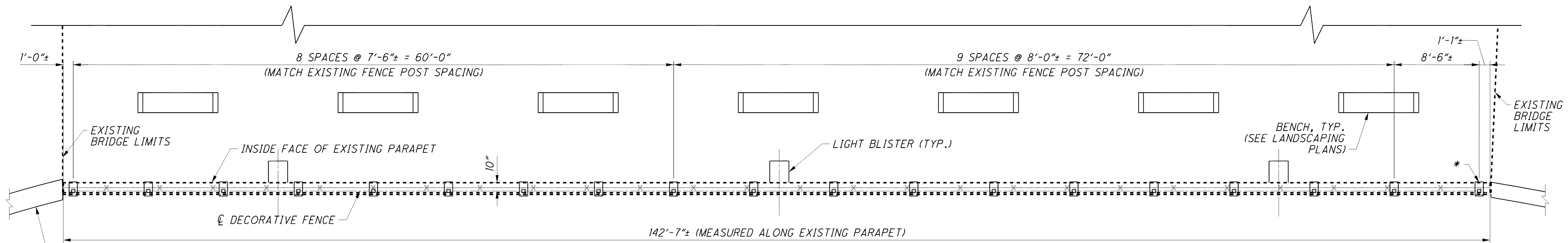
LEGEND:

- * FOR GEOMETRIC LAYOUT OF CURBS AND PEDESTRIAN ISLAND SEE DWG. IS-001 AND IS-002 IN THE ROADWAY-GATEWAY BU 1010.
- Δ STATIONS AND OFFSETS ARE RELATIVE TO @ CONSTRUCTION CENTRAL VIADUCT WAY.
- M.S.M.C. MICRO-SILICA MODIFIED CONCRETE

DESIGNED SCM	CHECKED VWR	DRAWN ENH	REVIEWED DBT	DATE 12-07-11
				STRUCTURE FILE NUMBER 1801511
BRIDGE 14				DESIGN AGENCY WASH HNTB
DECK CONTOURS				RECORD DRAWINGS
CUY-90-14.90				NO.
PID No. 77332 / 85531				REVISIONS
11 / 14				DATE 06-29-2012

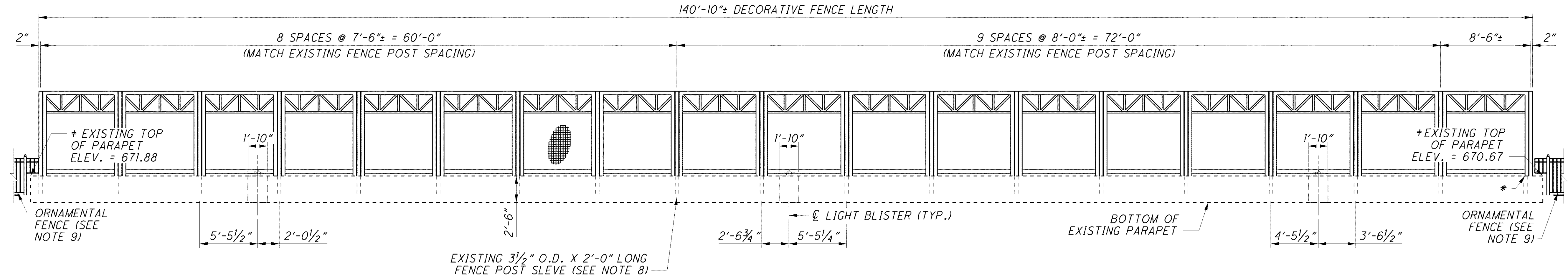
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PLAN
(LANDSCAPING GRANITE PAVERS NOT SHOWN)

- * LOCATION OF PROPOSED DECORATIVE FENCE POST DOES NOT MATCH EXISTING FENCE POST LOCATION
- + BASED ON SURVEY INFORMATION AT THE TOE OF EXISTING PARAPET AND EXISTING PLAN DIMENSIONS



ELEVATION
(LOOKING NORTHWEST)

NOTES:

1. FOR ADDITIONAL DECORATIVE FENCE DETAILS, SEE SHEET 13 OF 14.
2. INSTALL POSTS VERTICAL AND RAILS PARALLEL TO THE TOP OF EXISTING PARAPET.
3. FOR LIGHT BLISTER DETAILS, SEE SHEET 9 OF 14.
4. ALL HOLLOW STRUCTURAL SECTIONS SHALL MEET ASTM A500 GRADE B SPECIFICATIONS.
5. BASE PLATES SHALL BE ASTM A709 GRADE 36 OR 50 STEEL. FASTENERS SHALL BE 3/4" φ HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL CONFORM TO CMS 711.09.
6. EIGHT FEET HIGH ODOT STANDARD PROTECTIVE FENCING (1" DIAMOND MESH FABRIC) PER ODOT SCD VPF-1-90 IS REQUIRED. 1" VANDAL PROTECTIVE MESH SHALL BE ATTACHED TO THE PROPOSED DECORATIVE METAL FENCE AND EXTEND TO WITHIN 1" OF THE TOP OF PARAPET.
7. ALL POSTS, RAILS, BASE PLATES, AND OTHER VISIBLE HARDWARE SUCH AS FENCE TIES SHALL BE GALVANIZED AND POWDER COATED BLACK.
8. PROPOSED DECORATIVE FENCE POST SPACING TO MATCH EXISTING FENCE POST SPACING EXCEPT NEAR ENDS OF PARAPET AS NOTED. CONTRATOR TO VERIFY EXISTING DECORATIVE FENCE POST SPACING AND TOP OF EXISTING PARAPET ELEVATIONS PRIOR TO FABRICATION OF PROPOSED FENCE. ANY CHANGES TO DECORATIVE FENCE GEOMETRY SHOULD BE NOTED ON THE SHOP DRAWINGS. ONCE EXISTING FENCE POSTS HAVE BEEN REMOVED FLUSH TO THE TOP OF THE EXISTING PARAPET, FILL THE HOLES WITH AN APPROVED GROUT MATERIAL. HOLES SHALL BE FREE OF WATER OR ANY FOREIGN MATERIAL AT THE TIME OF GROUTING.
9. SEE LANDSCAPE DETAILS IN THE ROADWAY-GATEWAY BU 1010. FABRICATORS OF BOTH THE DECORATIVE FENCE ON THE EXISTING BRIDGE PARAPET AND THE ORNAMENTAL FENCE SHALL COORDINATE TO ENSURE THAT THE MAXIMUM GAPS BETWEEN THE TWO FENCE END POSTS DOES NOT EXCEED 4".

NO.	REVISIONS	DATE
	RECORD DRAWINGS	1-10-12

DESIGN AGENCY
WASH HNTB
WALSH HNTB CONSTRUCTION

CLEVELAND'S
MINNERBELT BRIDGE
90
THE UNIVERSITY OF CLEVELAND

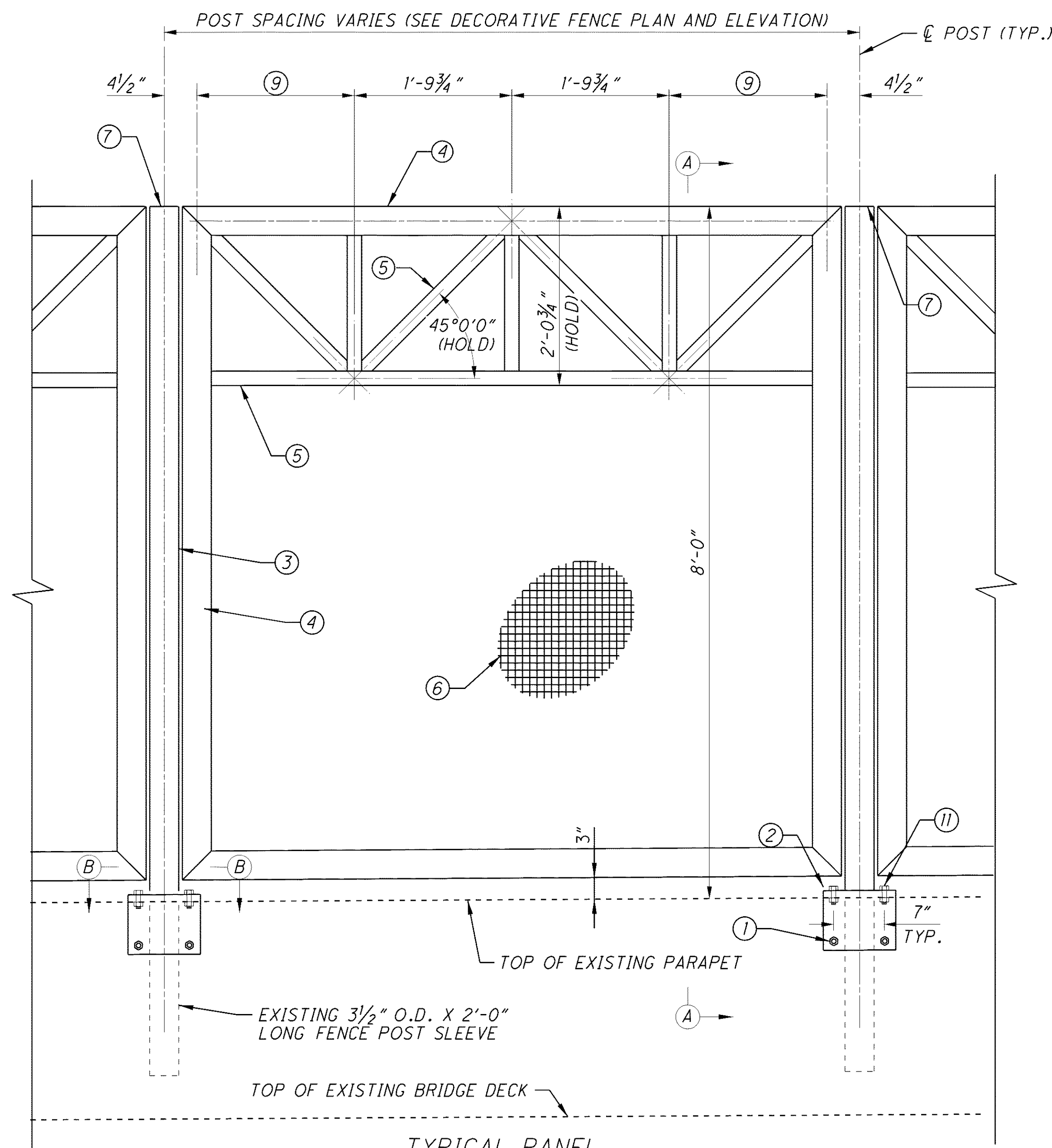
BRIDGE 14

DECORATIVE FENCE LAYOUT
BRIDGE NO. CUY-10-1685
CARNEGIE AVENUE OVER GCRTA

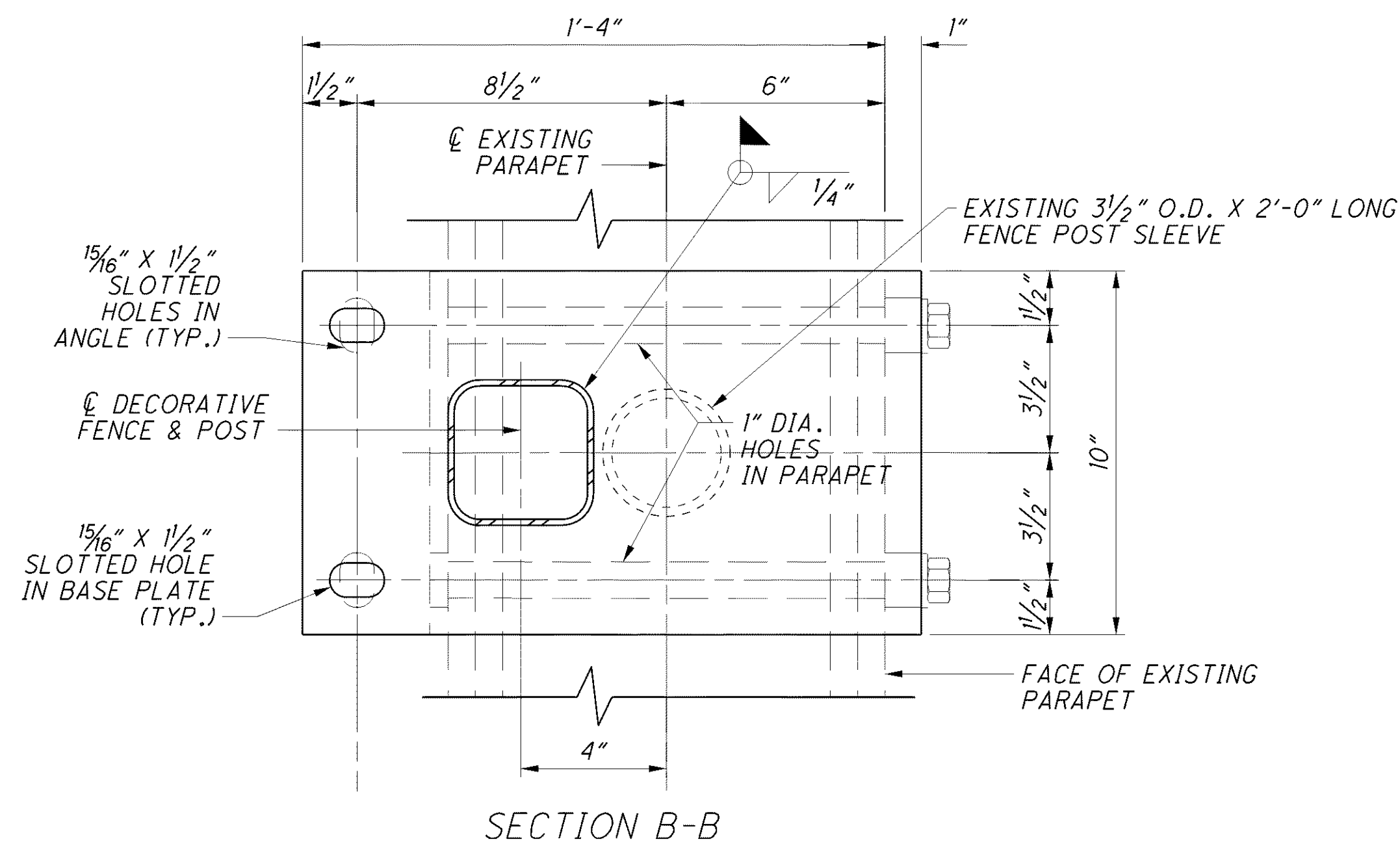
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VWR	VWR		

CUY-90-14.90
PID No. 77332 / 85531

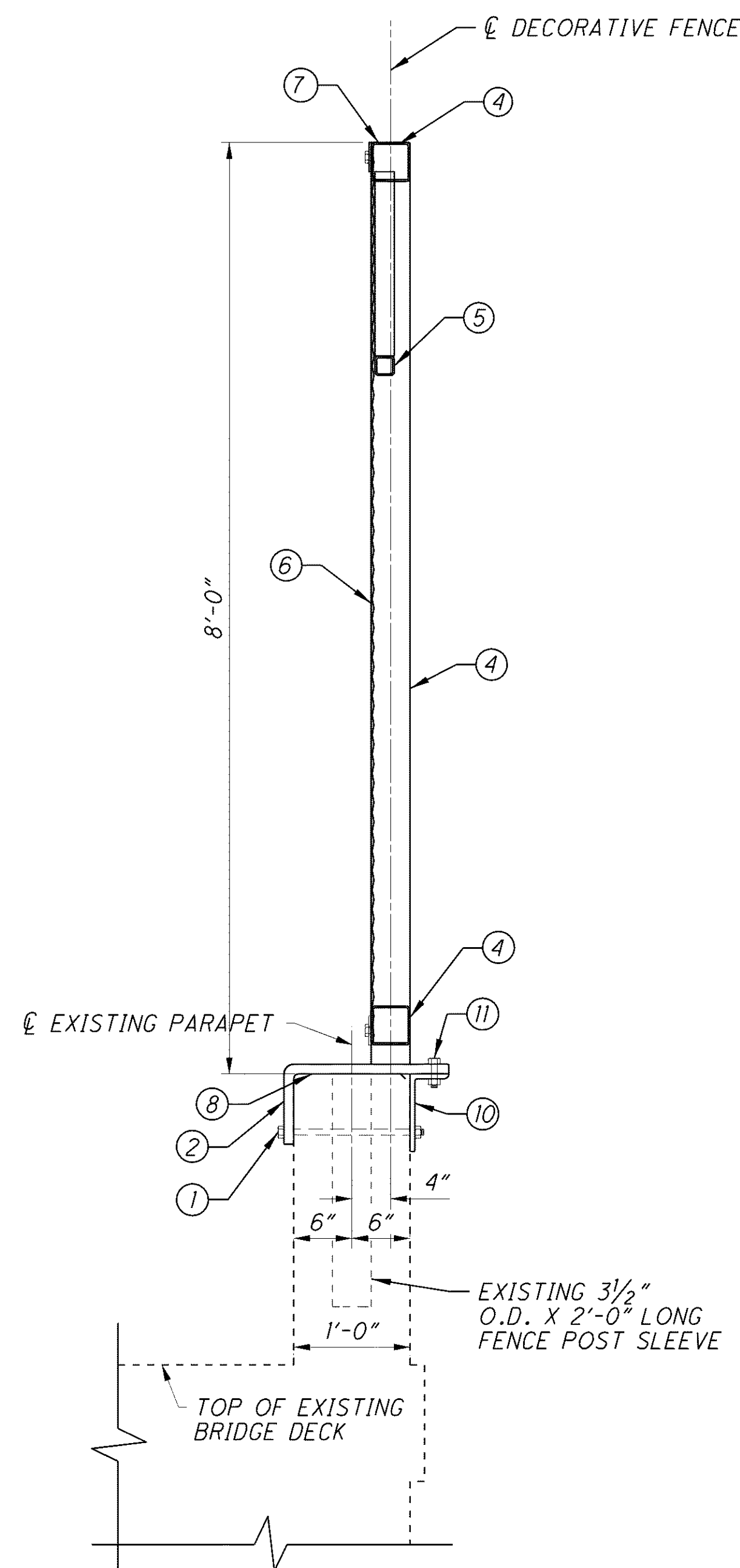
12	14
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TYPICAL PANEL
(8'-0" WIDE PANEL SHOWN, OTHER PANELS SIMILAR EXCEPT AS NOTED)



SECTION B-B



SECTION A-A

LEGEND:

- ① 3/4" DIA. H.S. HEX HEAD BOLT 1 1/2" LONG WITH HEX NUT AND TWO WASHERS IN 15/16" X 1/2" HORIZONTALLY SLOTTED HOLES IN BENT PLATE AND ANGLE.
- ② 1" BENT BASE PLATE
- ③ HSS 4 X 4 X 1/4 POST.
- ④ HSS 4 X 4 X 1/4 FRAME.
- ⑤ HSS 2 X 2 X 3/16 TRUSS.
- ⑥ 1" X 1" X 0.120" (11 GAGE) DIAMOND WELDED WIRE MESH WITH BLACK FUSION BONDED VINYL COATING.
- ⑦ 1/8" CAP PLATE. WELD TO NO. 3.
- ⑧ CAULKING COMPOUND
- ⑨ VARIES PER POST SPACING, SEE TABLE BELOW. DECORATIVE FENCE FABRICATOR SHALL MAINTAIN THE 45°00'00" DIAGONAL ANGLE.

POST SPACING	⑨
7'-6"	1'-6 3/4"
8'-0"	1'-9 3/4"
8'-6"	2'-0 3/4"

- ⑩ L8X4X1/2
- ⑪ 3/4" DIA. H.S. HEX HEAD BOLT 2 3/4" LONG WITH HEX NUT AND TWO WASHERS

NOTES:

- 1. FOR ADDITIONAL NOTES, SEE SHEET 12 OF 14.
- 2. FABRICATE FRAMES AND TRUSSES BY WELDING ALL JOINTS WITH CONTINUOUS MINIMUM WELD SIZES PER AWS D1.1. WELDS NEED NOT BE GROUND SMOOTH, BUT SHALL BE SUITABLE FOR GALVANIZING AND POWDER COATING.
- 3. FOR ADDITIONAL DECORATIVE FENCE CONNECTION DETAILS TO EXISTING PARAPET SEE ODOT SCD VPF-1-90.

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NO.	REVISIONS	DATE
	RECORD DRAWINGS	1-10-12

DESIGN AGENCY
WASH HNTB
WALSH CONSTRUCTION

BRIDGE 14

DECORATIVE FENCE DETAILS
BRIDGE NO. CUY-10-1685
CARNEGIE AVENUE OVER GCRTA

DESIGNED	DATE
M/PM	12-07-11

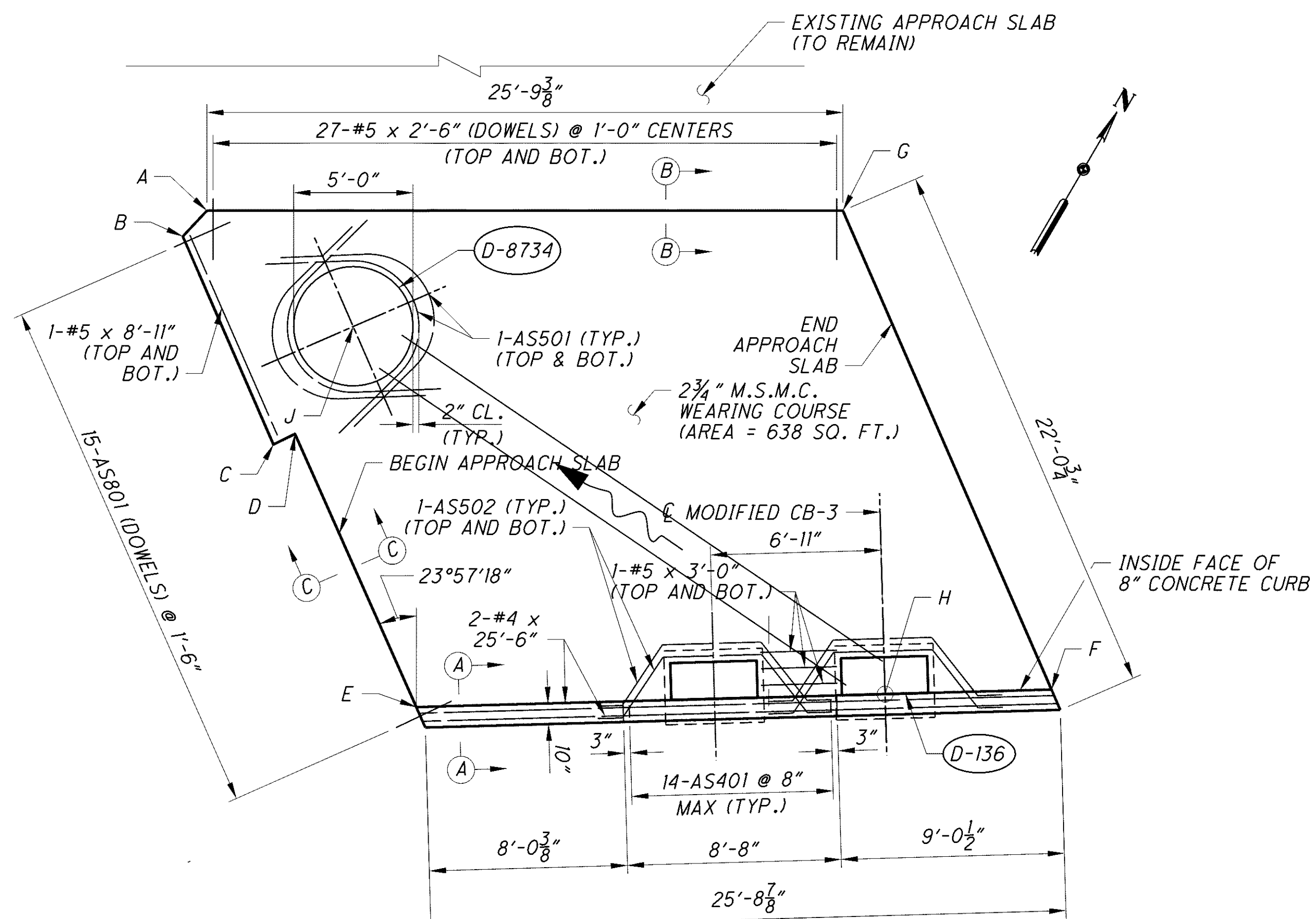
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STRUCTURE FILE NUMBER
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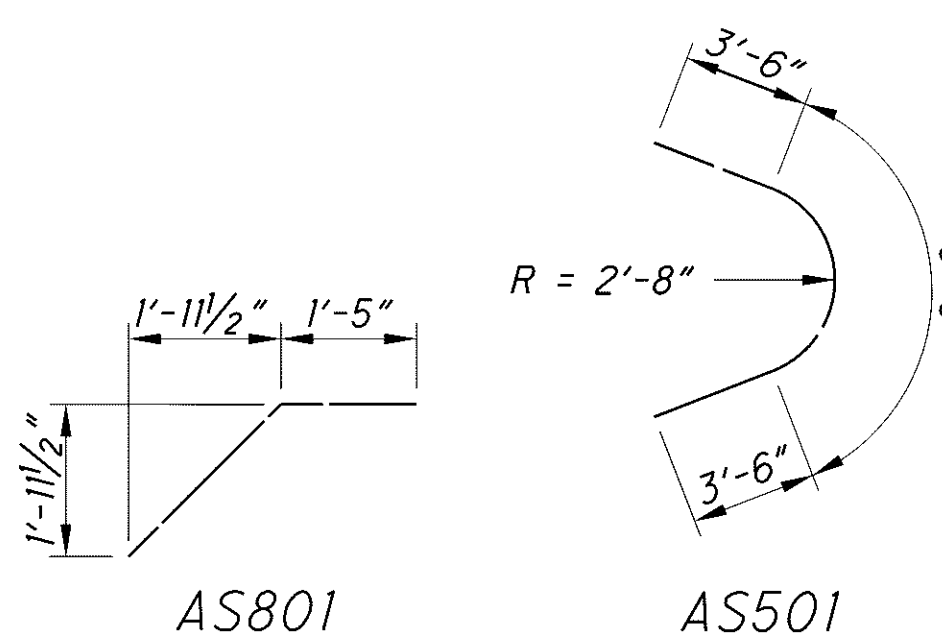
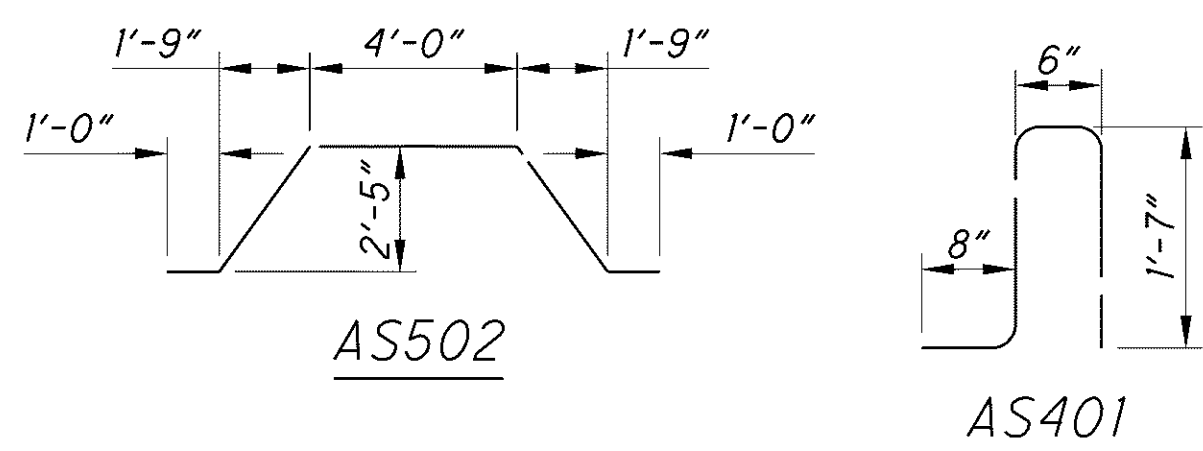
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PID No. 77332 / 85531

13	14
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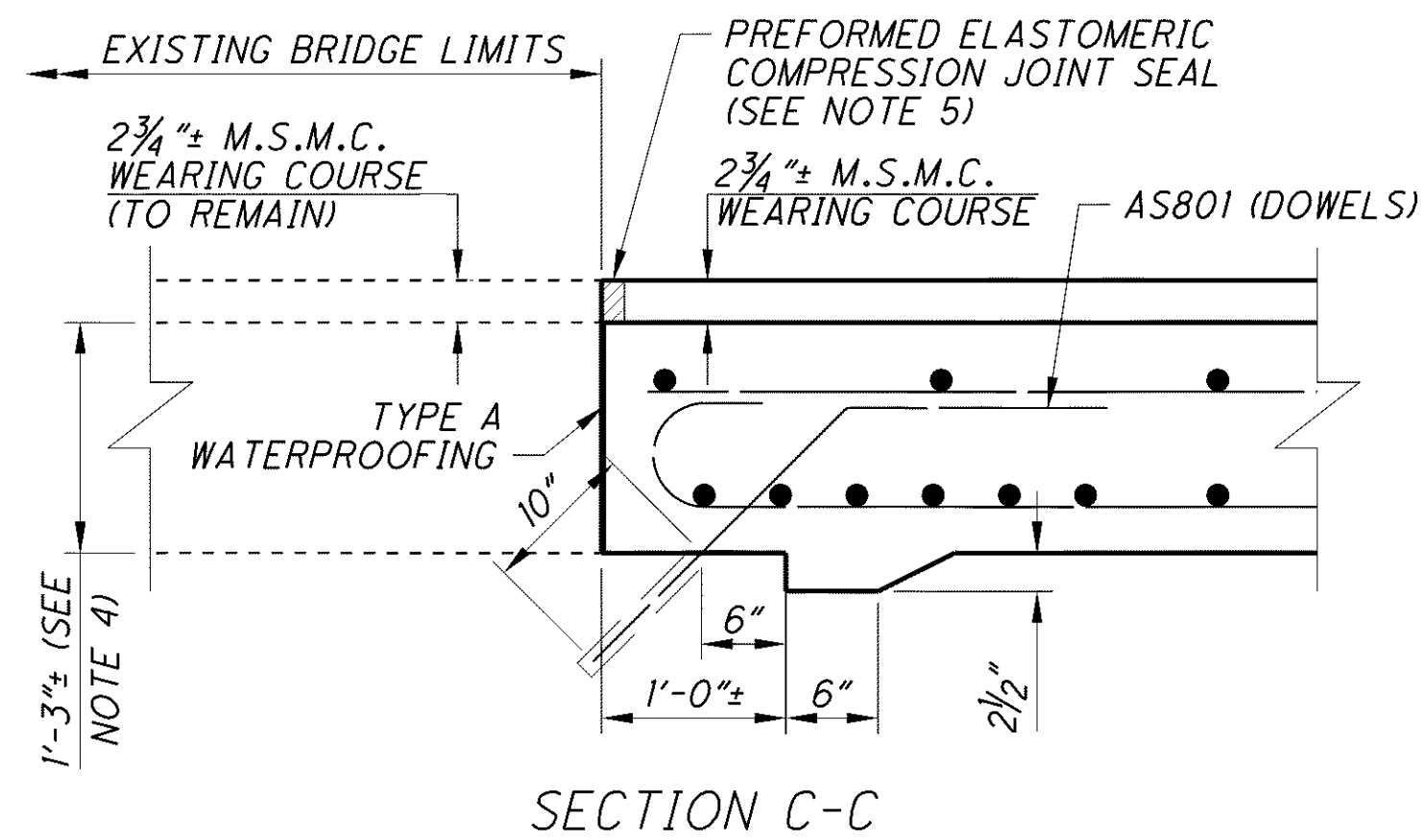
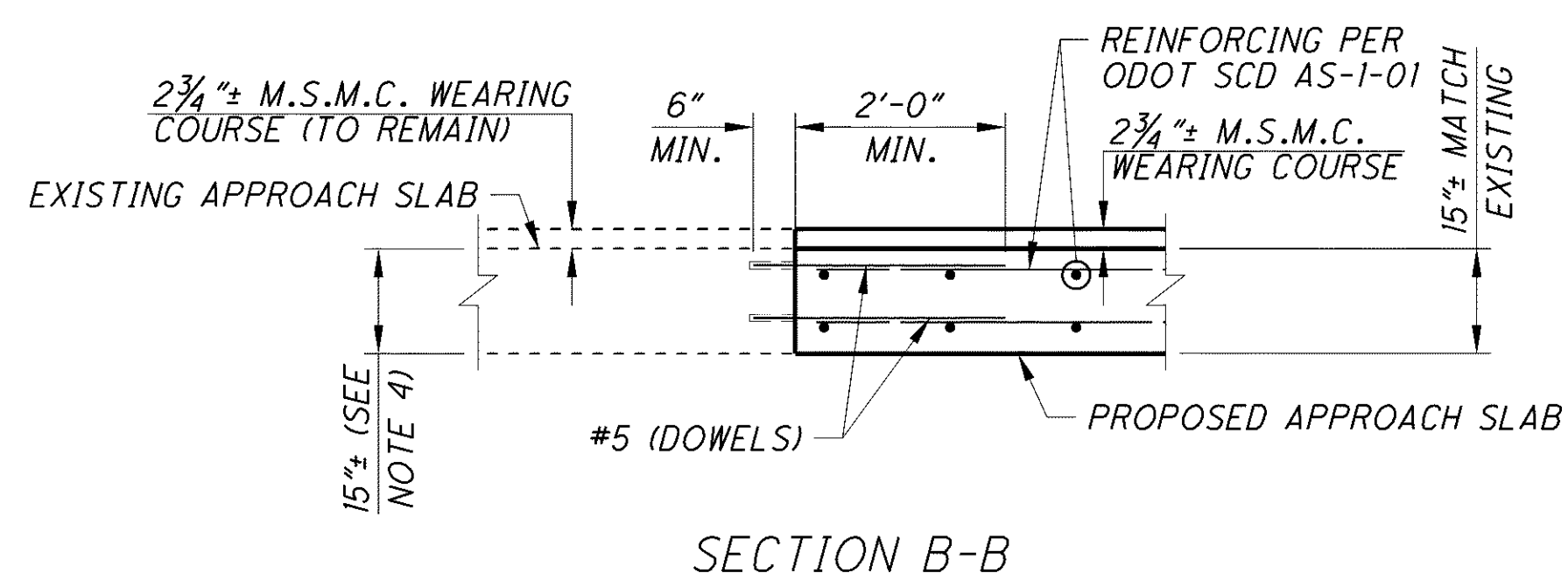
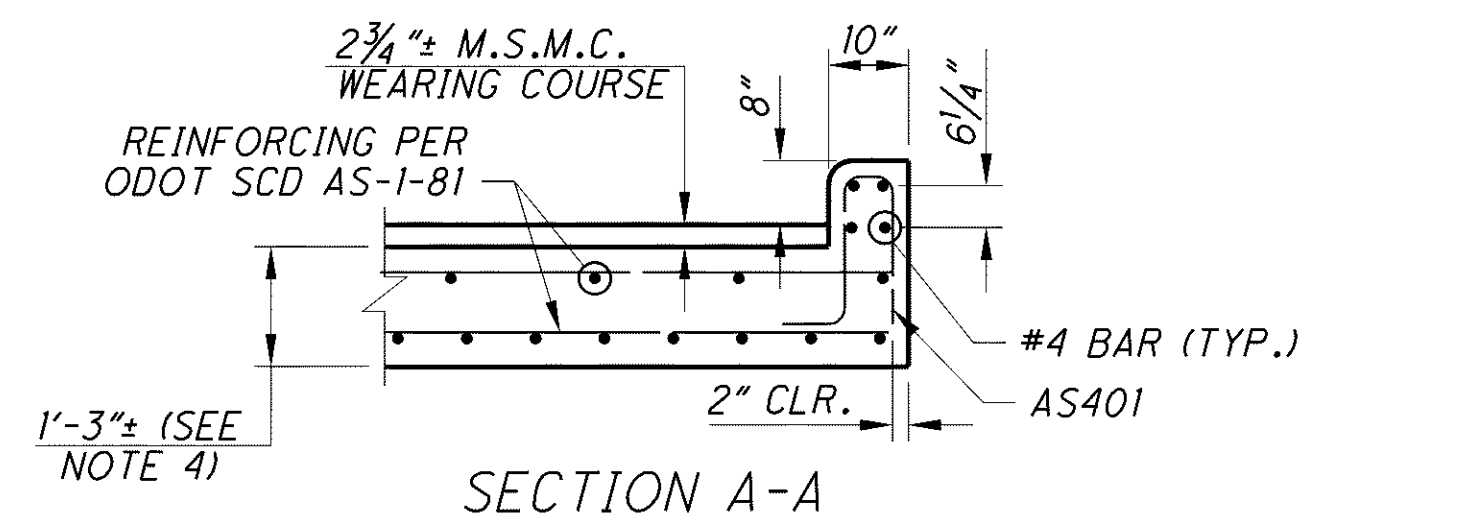


EAST ABUTMENT APPROACH SLAB

	STATION	OFFSET	ELEVATION
A	14+95.01	29.42' RT.	MATCH EXISTING
B	14+94.03	30.46' RT.	MATCH EXISTING
C	14+97.71	38.89' RT.	MATCH EXISTING
D	14+98.58	38.46' RT.	MATCH EXISTING
E	15+03.36	49.22' RT.	667.12
F	15+35.57	48.33' RT.	667.10
G	15+20.79	29.42' RT.	MATCH EXISTING
H	15.22.50	49.02' RT.	667.02
J	15+00.94	34.11' RT.	667.58



LEGEND:
M.S.M.C. MICRO-SILICA MODIFIED CONCRETE



- NOTES:**
- FOR ADDITIONAL NOTES AND DETAILS, SEE ODOT STD. DWG. AS-1-81.
 - VERTICAL REINFORCING STEEL SHALL CLEAR CONTROL JOINTS BY THREE INCHES MINIMUM. OBTAIN CLEARANCE BY ADJUSTING THE REINFORCING STEEL SPACING.
 - ALL REINFORCING TO BE EPOXY COATED PER CMS 509.
 - EXISTING 25'-0" APPROACH SLAB THICKNESS IS ASSUMED TO BE 15" BASED ON ODOT SCD AS-1-81. CONTRACTOR TO VERIFY PRIOR TO BEGINNING WORK.
 - 1 1/2" WIDE PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL SHALL CONFORM TO CMS 705.11. GROOVE FOR COMPRESSION JOINT SEAL SHALL BE 1/2" DEEP. TYPE "A" WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

<p>DESIGNED PEG</p> <p>CHECKED VWR</p> <p>DRAWN ENH</p> <p>REVIEWED DBT</p> <p>DATE 12-07-11</p> <p>STRUCTURE FILE NUMBER 1801511</p>	<p>BRIDGE 14</p>	<p>DESIGN AGENCY WASH HNTB WASH HNTB CONSTRUCTION</p> <p>MINNERBRIDGE CLEVELAND'S LEADER IN BRIDGE CONSTRUCTION</p> <p>APPROACH SLAB DETAILS</p> <p>BRIDGE NO. CUY-10-1685 CARNEGIE AVENUE OVER GCRTA</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>RECORD DRAWINGS</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td>06-29-2012</td> </tr> </table>	NO.	RECORD DRAWINGS	DATE			06-29-2012
NO.	RECORD DRAWINGS	DATE							
		06-29-2012							
<p>14 / 14</p>	<p>14 / 14</p>	<p>CUY-90-14.90 PID No. 77332 / 85531</p>	<p>DATE 06-29-2012</p>						