

CITY OF CLEVELAND, MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION

EAST 159TH & EUCLID BEACH RECONSTRUCTION

SCHEDULE OF ITEMS - TOTAL COST WITH INTERSECTION OMITTED

REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
ROADWAY					
1	ITEM 201 - CLEARING AND GRUBBING	LS	0.80	\$1,500.00	\$1,200.00
2	ITEM 202 - PAVEMENT REMOVED, AS PER PLAN, FOR DRIVES, AS PER D-15	SY	210	\$35.00	\$7,350.00
3	ITEM 202 - PAVEMENT REMOVED, AS PER PLAN, AS PER D-15	SY	2,195	\$35.00	\$76,825.00
4	ITEM 202 - WALK REMOVED, AS PER PLAN	SF	3,571	\$4.00	\$14,284.00
5	ITEM 202 - CURB REMOVED, AS PER PLAN	FT	1,520	\$7.00	\$10,640.00
6	ITEM 202 - CATCH BASIN REMOVED, AS PER PLAN	EACH	2	\$850.00	\$1,700.00
7	ITEM 203 - EXCAVATION	CY	381	\$60.00	\$22,860.00
8	ITEM 204 - GEOTEXTILE FABRIC, AS PER PLAN	SY	2,335	\$1.50	\$3,502.50
9	ITEM 204 - SUBGRADE COMPACTION	SY	2,135	\$1.50	\$3,202.50

Signature _____

Date _____

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REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
10	ITEM 204 - PROOF ROLLING	HR	6	\$175.00	\$1,050.00
11	ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, AS PER D-23 AND D-24	SF	4,068	\$8.00	\$32,544.00
12	ITEM 608 - CURB RAMP, AS PER PLAN, AS PER D-75	SF	393	\$25.00	\$9,825.00
13	ITEM 609 - CURB, TYPE 2-A, AS PER PLAN, AS PER D-23 AND D-24	FT	1,490	\$22.00	\$32,780.00
14	ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, AS PER D-41	EACH	4	\$1,500.00	\$6,000.00
15	ITEM SPECIAL - UNDERCUTTING SUBGRADE AND SUBBASE, AS PER PLAN, AS PER D-16	CY	80	\$60.00	\$4,800.00
	SUBTOTAL ROADWAY				\$228,563.00
EROSION CONTROL					
15	ITEM 209 - LINEAR GRADING	MILE	0.26	\$12,500.00	\$3,200.00
16	ITEM 653 - TOPSOIL FURNISHED AND PLACED	CY	120	\$65.00	\$7,800.00

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EAST 159TH & EUCLID BEACH RECONSTRUCTION

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REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
17	ITEM 659 - SEEDING AND MULCHING, CLASS 1 (HIGH QUALITY)	LS	0.80	\$5,000.00	\$4,000.00
18	ITEM 832 - EROSION CONTROL, AS PER PLAN, PER D-22	EACH	6,000	\$1.00	\$6,000.00
	SUBTOTAL EROSION CONTROL				\$21,000.00
DRAINAGE					
19	ITEM 202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN	FT	10	\$20.00	\$200.00
20	ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN, AS PER D-42	FT	1,490	\$17.00	\$25,330.00
21	ITEM 605 - AGGREGATE DRAINS	FT	80	\$20.00	\$1,600.00
22	ITEM 611 - 12" CONDUIT, TYPE B	FT	0	\$200.00	\$0.00
23	ITEM 611 - CATCH BASIN, NO. 3C, AS PER PLAN	EACH	2	\$6,950.00	\$13,900.00
24	ITEM 611 - MANHOLE ADJUSTED TO GRADE	EACH	2	\$1,500.00	\$3,000.00

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EAST 159TH & EUCLID BEACH RECONSTRUCTION

SCHEDULE OF ITEMS - TOTAL COST WITH INTERSECTION OMITTED

REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
25	ITEM 611 - SPECIAL - MISCELLANEOUS METAL	LB	2,400	\$2.00	\$4,800.00
26	ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1), AS PER D-31	CY	60	\$50.00	\$3,000.00
	SUBTOTAL DRAINAGE				\$51,830.00
PAVEMENT					
27	ITEM 304 - AGGREGATE BASE, AS PER PLAN (8")	CY	475	\$60.00	\$28,500.00
28	ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN, AS PER D-23, D-24	SY	206	\$100.00	\$20,600.00
29	ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN, AS PER D-23, D-24	SY	2,135	\$100.00	\$213,500.00
	SUBTOTAL PAVEMENT				\$262,600.00
MAINTENANCE OF TRAFFIC					
30	ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN	HOUR	32	\$75.00	\$2,400.00

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CITY OF CLEVELAND, MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION

EAST 159TH & EUCLID BEACH RECONSTRUCTION

SCHEDULE OF ITEMS - TOTAL COST WITH INTERSECTION OMITTED

REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
31	ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	SNMT	3	\$750.00	\$2,400.00
32	ITEM 614 - WORK ZONE EDGE LINE, CLASS 1, 4" 642 PAINT, YELLOW	MILE	0.57	\$1,400.00	\$795.20
33	ITEM 614 - WORK ZONE EDGE LINE, CLASS 1, 4" 642 PAINT, WHITE	MILE	0.46	\$1,400.00	\$637.00
34	ITEM 614 - WORK ZONE DOTTED LINE, CLASS 1, 4" 642 PAINT	FT	88	\$4.00	\$352.00
35	ITEM 614 - WORK ZONE STOP LINE, CLASS 1, 642 PAINT	FT	22	\$4.00	\$88.00
36	ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	SY	733	\$90.00	\$65,970.00
	SUBTOTAL MAINTENANCE OF TRAFFIC				\$72,642.20
TESTING					
37	ITEM SPECIAL - CONCRETE TEST CYLINDERS (4 SPECIMENS PER SET), AS PER D-73	EACH	2	\$200.00	\$400.00
38	ITEM SPECIAL - SUBSEQUENT SLUMP & TEMPERATURE TEST, AS PER D-73	EACH	3	\$200.00	\$600.00

CITY OF CLEVELAND, MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION

EAST 159TH & EUCLID BEACH RECONSTRUCTION

SCHEDULE OF ITEMS - TOTAL COST WITH INTERSECTION OMITTED

REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
39	ITEM SPECIAL - AIR CONTENT AND TEMPERATURE TEST, AS PER D-73	EACH	3	\$200.00	\$600.00
40	ITEM SPECIAL - FLEXURAL STRENGTH OF CONCRETE (BEAM) TEST, AS PER D-73	EACH	3	\$200.00	\$600.00
41	ITEM SPECIAL - PROCTOR TEST, AS PER PLAN	EACH	3	\$200.00	\$600.00

CITY OF CLEVELAND, MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION

EAST 159TH & EUCLID BEACH RECONSTRUCTION

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REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
	SUBTOTAL TESTING				\$2,800.00
	INCIDENTALS				
42	ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN	LS	0.80	\$80,000.00	\$64,000.00
43	ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN, AS PER D-47	LS	0.80	\$6,000.00	\$4,800.00
44	ITEM 624 - MOBILIZATION	LS	0.80	\$25,000.00	\$20,000.00
45	ITEM SPECIAL - PROJECT SIGNS AS PER C-11	EACH	0.80	\$850.00	\$680.00
46	ITEM SPECIAL - PRECONSTRUCTION AUDIO/VIDEO	LS	0.80	\$1,200.00	\$960.00
47	ITEM SPECIAL - ENGINEERING & CONSTRUCTION FORCE ACCOUNT	LS	0.80	\$20,000.00	\$16,000.00
47	ITEM SPECIAL - AS-BUILT RECORD DRAWINGS, AS PER D-77	LS	0.80	\$3,000.00	\$2,400.00
48	ITEM SPECIAL - DISCRETIONARY ALLOWANCE TO BE UTILIZED AS DIRECTED BY THE ENGINEER OR FOR UNSCHEDULED WORK ITEMS NOT INCLUDED IN THIS PROPOSAL OR SHOWN ON THE PLANS	LS	0.80	\$30,000.00	\$24,000.00

Signature _____

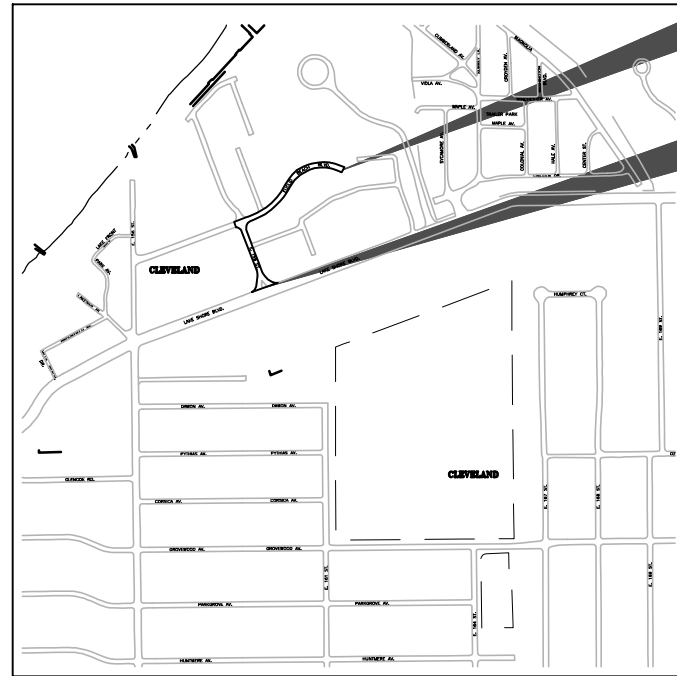
Date _____

CITY OF CLEVELAND, MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION

EAST 159TH & EUCLID BEACH RECONSTRUCTION

SCHEDULE OF ITEMS - TOTAL COST WITH INTERSECTION OMITTED

REF NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	APPROXIMATE ITEM TOTAL
	SUBTOTAL INCIDENTALS				\$132,840.00
	* ESTIMATED TOTAL FOR UNOFFICIAL SUM FOR BID ITEMS (ITEM 1 THROUGH ITEM 159)				\$772,275.20
<p>* The amount of the bid bond or cashier's check required of all bidders under section A-7 and the amount of the surety bond required of the successful bidder under section 19, shall be based upon this dollar figure. This figure shall also be used to determine the percentage of CSB participation. This dollar shall be used to determine the lowest responsible bidder pursuant to this invitation to bid and shall be the contractor dollars.</p>					



LOCATION MAP

LATITUDE: 41° 34' 50.3" N LONGITUDE: -81° 34' 09.7" W



DESIGN DESIGNATION

CURRENT ADT (XXXX) X,XXX
 DESIGN YEAR ADT (XXXX) X,XXX
 DESIGN SPEED 25 MPH
 LEGAL SPEED 25 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 LOCAL
 NHS PROJECT N/A

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES
 CONTACT TWO WORKING DAYS
 BEFORE YOU DIG.

OHIO811, OR 1-800-362-2764
 (NON-MEMBERS MUST BE CALLED DIRECTLY)

PREPARED BY
STEPHEN HOVANCSEK & ASSOC., INC.
 TWO MERIT DRIVE RICHMOND HEIGHTS,
 OHIO 44143 (216) 731-6255 FAX NO.
 (216) 731-4483

ENGINEERS SEAL:

SIGNED: _____
 DATE: _____

INDEX OF SHEETS:

TITLE SHEET	1
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ODOT STANDARD CONSTRUCTION DRAWINGS				CITY STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-1.1	07/28/00	MT-95.31	07/19/19			800	10/21/22
BP-2.1	01/21/22	MT-95.32	04/19/19	CONC 1	01/14/20	821	04/20/12
BP-2.2	01/15/22	MT-97.10	04/19/19	PR 1	04/14/08	832	10/19/18
BP-2.4	07/19/13	MT-97.12	01/20/17	244-ME	04/14/08	921	04/20/12
BP-2.5	01/25/22	MT-99.20	04/19/19	CR 1	04/14/08		
BP-4.1	07/19/13	MT-101.90	07/21/17	CD 1	04/14/08		
				CB 1	07/08/08		
		MT-105.10	01/17/20	A-503	07/08/08		
BP-5.1	07/15/22	MT-110.10	07/19/13	A-503	07/08/08		
BP-7.1	01/21/22			A-605	07/08/08		
		TC-41.20	10/18/13	A-695	07/08/08		
		TC-71.10	01/19/18	MB-1C	10/15/14		
		TC-82.10	07/19/19	164ME	07/08/08		
DM-1.2	07/16/21			146-ME	07/08/08		
DM-4.3	01/15/16						
DM-4.4	01/15/16						

CITY OF CLEVELAND

MAYOR'S OFFICE OF CAPITAL PROJECTS
 DIVISION OF ENGINEERING AND CONSTRUCTION

E. 159TH ST. & EUCLID BEACH RECONSTRUCTION
 (BEGINNING AT LAKESHORE BLVD.)

PROJECT DESCRIPTION

RECONSTRUCTION OF E. 159TH ST. AND EUCLID BEACH BLVD. FROM LAKESHORE AVENUE TO THE EUCLID BEACH BLVD. TERMINUS. THE EXISTING CONCRETE PAVEMENT WILL BE REMOVED AND A NEW 9" NON-REINFORCED CONCRETE PAVEMENT WILL BE CONSTRUCTED. NEW SIDEWALKS WILL BE INSTALLED TO CONNECT MANOR HEALTH CARE AND NEW ADA RAMPS WILL BE INSTALLED AS NEEDED.

2019 SPECIFICATIONS

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

OUPS TICKET NUMBERS

A230701757-00A 11/3/2022
 A230701766-00A 11/3/2022

 JUSTIN M. BIBB
 Mayor

 BLAINE A. GRIFFITH
 President of Council

 MICHAEL D. POLENSEK
 Councilmember of Ward 8

 JAMES DEROSA
 Director of Capital Projects

 MARTIN KEANE
 Director of Public Utilities

APPROVED _____
 RICHARD SWITALSKI, P.E.,
 ADMINISTRATION BUREAU MANAGER
 DIVISION OF ENGINEERING AND CONSTRUCTION DATE

APPROVED _____
 ROBERT CHAPELLE, P.E., DESIGN SECTION CHIEF
 DIVISION OF ENGINEERING AND CONSTRUCTION DATE

APPROVED _____
 ELIDA RREZA, P.E., PROJECT MANAGER
 DIVISION OF ENGINEERING AND CONSTRUCTION DATE

STAGE 3 PLANS - 8/31/2023

FEDERAL PROJECT NO.
N/A

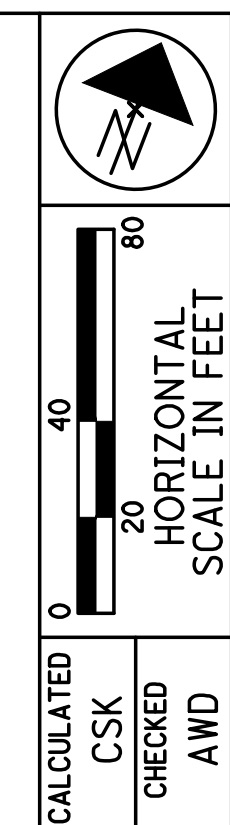
PID NO.
N/A

CONSTRUCTION PROJECT NO.
M-1264

RAILROAD INVOLVEMENT
N/A

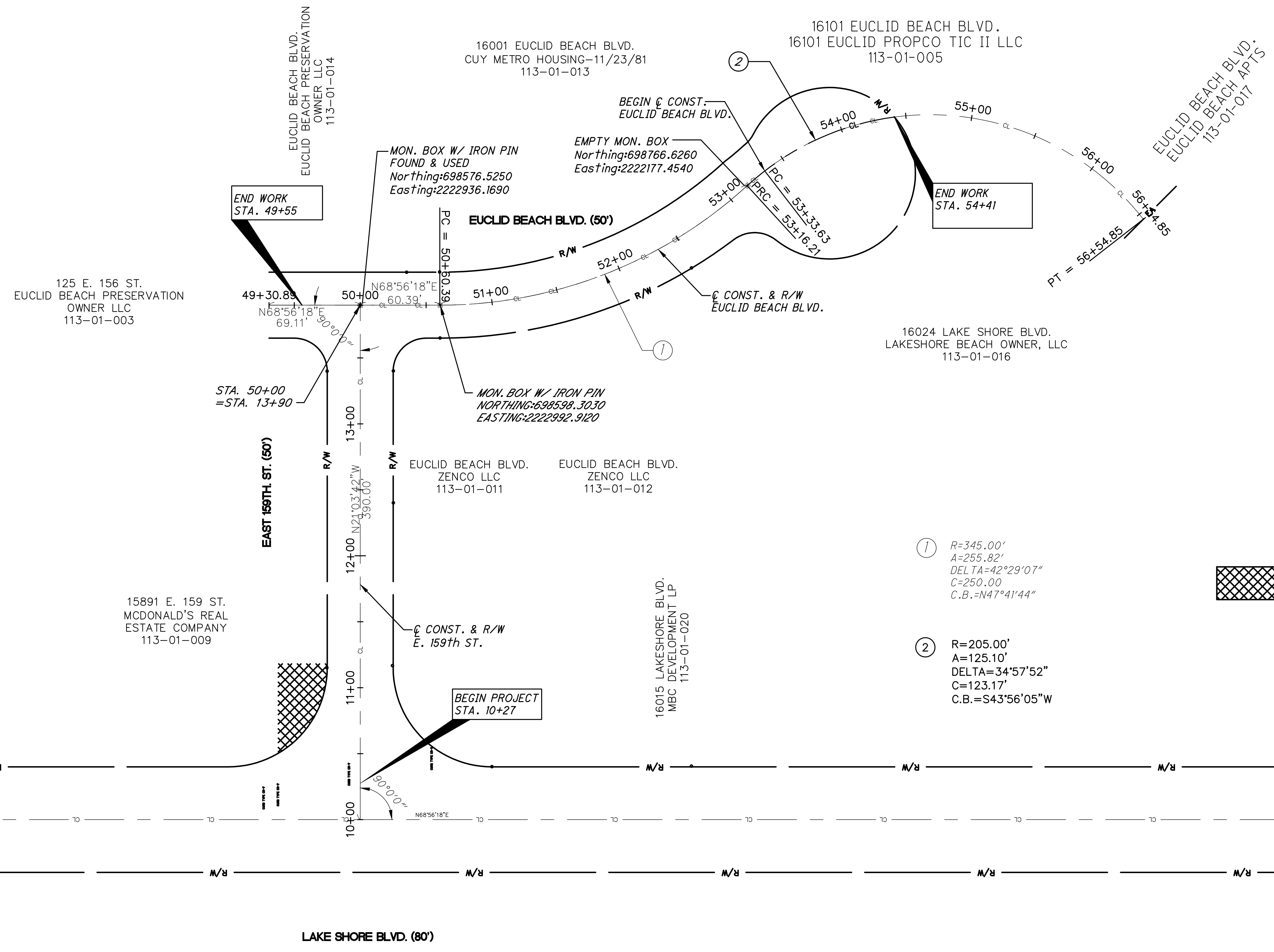
CLE - E. 159TH ST.
& EUCLID BEACH

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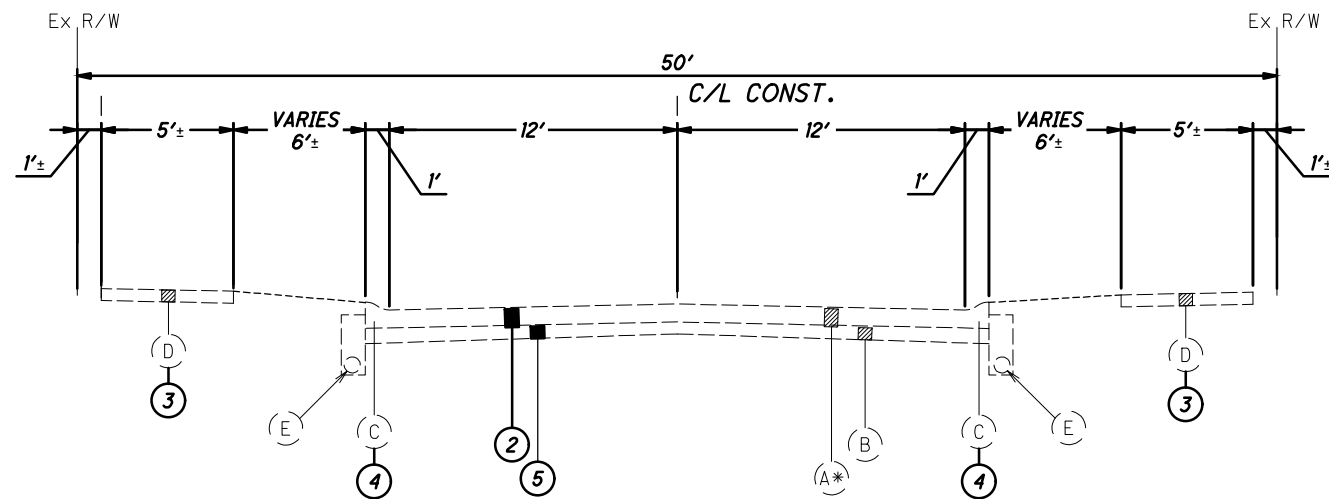


E. 159TH & EUCLID BEACH RECONSTRUCTION
SCHEMATIC PLAN

CLE-E. 159TH ST.



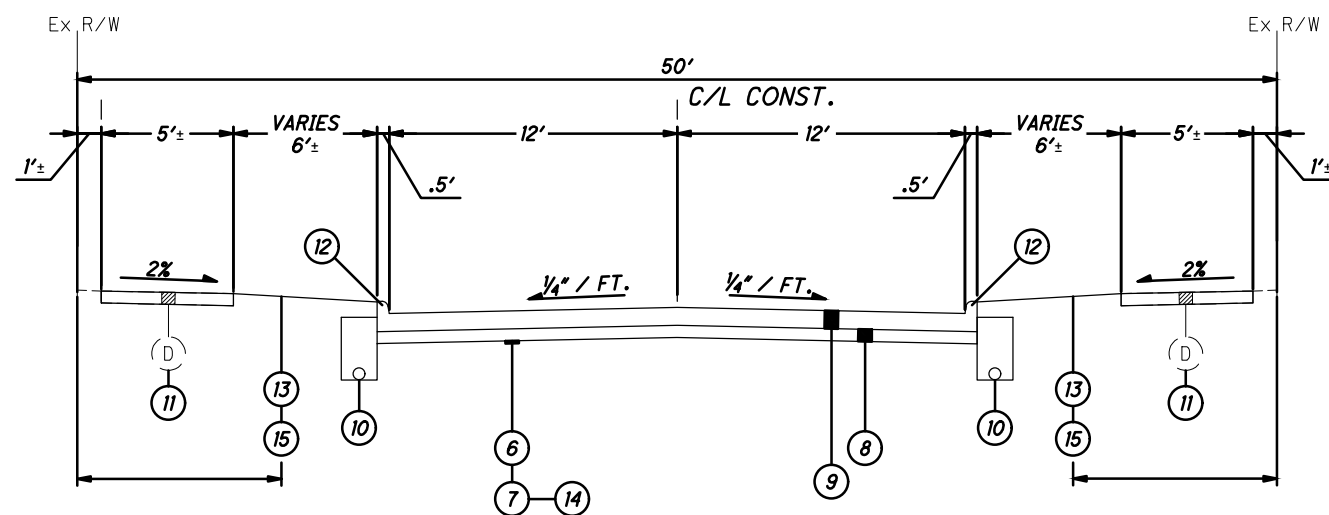
CALCULATED	CSK
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E. 159TH ST. & EUCLID BEACH BLVD.— EXISTING SECTION
SEE LIMITS BELOW

- EXISTING LEGEND
- (A) EXIST. CONCRETE PAVEMENT
(T=VARIES 4.5" TO 8.5", 7" TYP.)
 - (B) EXIST. AGGREGATE BASE
(T=VARIES 2.5" TO 6.25", 6" TYP.)
 - (C) EXIST. CONCRETE CURB
 - (D) EXIST. CONCRETE WALK
 - (E) EXIST. UNDERDRAIN

* AN ASPHALT OVERLAY EXISTS FROM STA. 10+00 TO STA. 11+13
(T=VARIES 3.5" TO 4.75")



E. 159TH ST. & EUCLID BEACH BLVD.— PROPOSED SECTION

STA. 11+12 TO STA. 13+90 = 278 LF
STA. 50+00 TO STA. 54+41 = 441 LF

PROPOSED LEGEND

- (1) ITEM 202 - PAVEMENT REMOVED FOR DRIVES, AS PER PLAN, AS PER D-15
- (2) ITEM 202 - PAVEMENT REMOVED, AS PER PLAN, AS PER D-15
- (3) ITEM 202 - WALK REMOVED, AS PER PLAN
- (4) ITEM 202 - CURB REMOVED, AS PER PLAN
- (5) ITEM 203 - EXCAVATION
- (6) ITEM 204 - SUBGRADE COMPACTION
- (7) ITEM 204 - PROOF ROLLING
- (8) ITEM 304 - 8" AGGREGATE BASE, AS PER PLAN
- (9) ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, AS PER D-23 AND D-24
- (10) ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER D-42
- (11) ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, AS PER D-23 AND D-24
- (12) ITEM 609 - CURB, TYPE 2-A, AS PER PLAN, AS PER D-23 AND D-24
- (13) ITEM 659 - SEEDING AND MULCHING, CLASS 1 (HIGH QUALITY)
- (14) ITEM 712.09 - GEOTEXTILE FABRIC, TYPE D
- (15) ITEM 209 - LINEAR GRADING

GENERAL

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CITY OF CLEVELAND DIVISION OF WATER ATTN: FRED ROBERTS 1201 LAKESIDE AVE. CLEVELAND, OH 44114 PHONE: (216) 664-2444 EX.75590 INSPECTION: (216) 664-2342 EMERGENCY: (216) 664-3060 FAX: (216) 664-2378 fred.roberts@clevelandwater.com

AT&T ATTN: JAMES JANIS 13630 LORAIN AVENUE, ROOM 350 CLEVELAND, OHIO 44111-3436 PHONE: (216) 476-6142 pj8191@att.com

CITY OF CLEVELAND WATER POLLUTION CONTROL ATTN: ELIE RAMY 12302 KIRBY AVE. CLEVELAND, OH 44108 PHONE: (216) 664-2756 eramy@clevelandwpc.com

NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORS) ATTN: MARY MACIEJOWSKI 3900 EUCLID AVE. CLEVELAND, OH 44115- PHONE:(216) 881-6600 EXT. 6466 maciejowskim@neorsd.org

ILLUMINATING COMPANY (CEI) ATTN: JOHN M. ZASSICK 6896 MILLER ROAD, SUITE 110 BRECKSVILLE, OHIO 44141 PHONE: (440) 546-8738 jmzassick@firstenergycorp.com

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. THE CITY DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. THE CITY IS NOT LIABLE FOR UTILITIES OR CONNECTIONS NOT SHOWN ON THE PLANS OR ABANDONED UTILITIES OR CONNECTIONS. THE CONTRACTOR SHALL CUT OUT ANY ABANDONED UTILITIES AND ALL COSTS INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE BID ITEM FOR THAT WORK. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

DOMINION ENERGY OHIO

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION EAST OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PURPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION'S CORROSION DEPARTMENT: DAVID CUTLIP (330-323-0064), RICK McDONALD (330-575-0335), OR AL HUMRICHOUER (330-323-3119). DEO = THE EAST OHIO GAS COMPANY DBA DOMINION EAST OHIO, 1-800-362-7557

GENERAL PROVISIONS

ALL REFERENCES TO THE GENERAL PROVISIONS (SECTION 100) OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS) THAT ARE CITED IN THE ITEMIZED SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, PROPOSAL NOTES, PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL, FOR THE PURPOSED OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING THE CITY OF CLEVELAND GENERAL CONDITIONS AS CONTAINED IN THE "CITY OF CLEVELAND CONTRACT AND SPECIFICATIONS" BOOKLET AND D-SPECIFICATIONS. THE SUBSECTION NUMBERS AND TOPICS USED IN THE CITY'S GENERAL CONDITIONS CORRESPOND TO THOSE CONTAINED IN THE ODOT CMS.

ELEVATION DATUM

ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN FEET ABOVE THE "U.S.G.S." DATUM PLANE.

DEFINITIONS AND TERMS

WHEREVER THERE APPEARS IN THE STANDARD SPECIFICATIONS (ODOT ITEMIZED CMS), SUPPLEMENTAL SPECIFICATIONS OR PROPOSAL NOTES, THE TERM "THE STATE", "DIRECTOR OF TRANSPORTATION", "DEPARTMENT", "DISTRICT CONSTRUCTION ENGINEER (DCE)", "ENGINEER", OR ANY OTHER TERM DESIGNATING ANY REPRESENTATIVE OR EMPLOYEE OF THE STATE OR ITS DEPARTMENT OF TRANSPORTATION, SUCH TERM SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING AND DESIGNATING THE RESPECTIVE BOARD OFFICER OR EMPLOYEE OF THE CITY OF CLEVELAND WHOSE DUTY OR FUNCTION IS TO DEAL WITH THE SUBJECT MATTER IN CONNECTION WITH SUCH TERMS IS USED AND SPECIFICALLY:

THE STATE SHALL MEAN THE CITY OF CLEVELAND. DEPARTMENT SHALL MEAN THE CLEVELAND DIVISION OF ENGINEERING AND CONSTRUCTION. DIRECTOR SHALL MEAN THE CITY OF CLEVELAND DIRECTOR, MAYORS OFFICE OF CAPITAL PROJECT, HIS DEPUTIES OR ANY ENGINEER DESIGNATED AS THE CITY ENGINEER'S REPRESENTATIVE. DISTRICT CONSTRUCTION ENGINEER SHALL MEAN THE DULY AUTHORIZED AGENT OR REPRESENTATIVE ENGINEER OF THE CITY OF CLEVELAND DIRECTOR, MAYORS OFFICE OF CAPITAL PROJECT ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR THE PURPOSES OF ENGINEER CONSTRUCTION ENGINEERING AND ADMINISTRATION OF THE CONTRACT. LABORATORY SHALL MEAN THE LABORATORY APPROVED BY THE CITY OF CLEVELAND.

STATIONING AND LOCATIONS

CENTERLINE STATIONING SHOWN WITHIN THESE PLANS IS FOR REFERENCE ONLY. ALL EXISTING MONUMENTS SHALL BE REFERENCED PRIOR TO CONSTRUCTION AS PER GENERAL NOTE ON SHEET 6.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE CITY OF CLEVELAND AND THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION, JANUARY 1, 2019 EDITION SHALL GOVERN THIS PROJECT, THIS SHALL INCLUDE ANY CHANGES OR SUPPLEMENTAL SPECIFICATIONS. SHOULD A CONFLICT ARISE BETWEEN THESE OR OTHER PROJECT SPECIFICATIONS, THE CITY OF CLEVELAND STANDARDS SHALL TAKE PRECEDENCE.

LOCAL LAWS, ORDINANCES AND REGULATIONS

IN ACCORDANCE WITH SECTION 107.01 OF THE GENERAL PROVISIONS, THE CONTRACTOR SHALL STAY FULLY INFORMED OF ALL LOCAL LAWS, ORDINANCES, REGULATIONS, ORDERS, AND DECREES THAT AFFECT THE WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO OBSERVE AND COMPLY WITH ALL SUCH LAWS, ORDINANCES, REGULATIONS, ORDERS, AND DECREES AT NO ADDITIONAL COST TO THE PROJECT/CITY.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL ADVISE THE ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, LANE CLOSURE, AND ROAD CLOSURES. THE ENGINEER WILL FORWARD THE INFORMATION TO THE CITY AND ANY OTHER LOCAL OFFICIALS RESPONSIBLE FOR THE PUBLIC NOTIFICATION.

CONTRACTOR WORK HOURS

THE DEFAULT CONTRACTOR WORK HOURS SHALL BE AN EIGHT-HOUR DAY, FIVE DAYS A WEEK FOR A MAXIMUM OF 40 HOURS, UNLESS A DIFFERENT WORK SCHEDULE HAS BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.

THE CONTRACTOR SHALL RESTRICT HIS WORKING HOURS TO THOSE PERMITTED BY LOCAL OR OTHER APPLICABLE ORDINANCE, LAWS AND REGULATIONS UNLESS A WRITTEN VARIANCE HAS BEEN ACCEPTED FROM THE APPROPRIATE GOVERNING AUTHORITIES.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, WORK HOURS WILL BE RESTRICTED TO 7:00 AM TO 7:00 PM.

THE CONTRACTOR SHALL APPLY FOR A NOISE VARIANCE TO PERFORM NIGHT TIME PAVING. IN THE EVENT A NOISE VARIANCE IS NOT GRANTED BY THE DIRECTOR OF SAFETY, WORK SHALL COMMENCE DURING DAYTIME HOURS AT NO ADDITIONAL COST. ANY ADDITIONAL MAINTENANCE OF TRAFFIC COST WILL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN. NO SEPARATE PAYMENT WILL BE MADE.

DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE NOISE LEVEL RESULTING FROM CONSTRUCTION SHALL BE WITHIN THE LIMITS SPECIFIED IN OSHA REGULATIONS AND ALL LOCAL ORDINANCES.

BASE MAPPING

BASE MAPPING BY STEPHEN HOVANCSEK & ASSOCIATES WAS COMPLETED IN OCTOBER 2022. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ALL EXISTING HORIZONTAL AND VERTICAL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION, AND OPERATION (INCLUDING ERECTION, MAINTENANCE AND REMOVAL) OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. IT IS ANTICIPATED THAT ALL WORK WILL BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY ALONG EAST 18TH STREET, AS SHOWN ON THE PLANS.

EXISTING TYPICAL SECTIONS

EXISTING PAVEMENT SECTIONS AS SHOWN HAVE BEEN DEVELOPED FROM PAVEMENT CORES AND REPRESENT WIDTH, DEPTH, AND COMPOSITION OF THE PAVEMENT. THE RECORD OF THE PAVEMENT CORES HAS ALSO BEEN INCLUDED IN THE PROJECT MANUAL FOR THE BENEFIT OF THE CONTRACTOR. THE CITY DOES NOT GUARANTEE THE ACCURACY OF EITHER THE PLANS OR THE PROJECT MANUAL AGAINST UNFORESEEN EXISTING CONDITIONS.

PROJECT PROGRESS MEETINGS

PROGRESS MEETINGS WILL BE HELD AT LEAST EVERY TWO (2) WEEKS AT THE PROJECT OFFICE OR OTHER LOCATION DESIGNATED BY THE CONSTRUCTION ENGINEER, AND WILL BE ATTENDED BY THE CITY AND THE CONTRACTOR DECISION-MAKING PERSONNEL. THE PURPOSE OF THESE MEETINGS IS TO DISCUSS CRITICAL OPERATIONS AND POTENTIAL PROBLEMS. ALSO, THE CONTRACTOR WILL CONFIRM THE NUMBER AND DURATION OF WORK SHIFTS, NUMBER OF WORK CREWS, AND SPECIFIC PORTIONS OF THE WORK TO BE PERFORMED DURING THE FOLLOWING WEEKS. THESE MEETINGS CAN ONLY BE WAIVED BY THE PROJECT ENGINEER.

ALLOWANCES

ALLOWANCES HAVE BEEN INCLUDED IN THE PROJECT FOR COSTS THAT SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL CHARGE AGAINST THE ALLOWANCES AS NEEDED TO PAY FORCE ACCOUNT INVOICES. PAYMENT SHALL BE MADE FOR THE ACTUAL COST OF INVOICES OR CHARGES. NO UPCHARGE WILL BE ALLOWED BY THE CONTRACTOR. THE FOLLOWING HAVE BEEN INCLUDED FOR USE ON THIS PROJECT:

ITEM SPECIAL - ENGINEERING AND CONSTRUCTION FORCE ACCOUNT \$50,000

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GENERAL (CONTINUED)

PERMIT

IN THE CITY OF CLEVELAND, ALL PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING ANY WORK WITHIN THE CITY OF CLEVELAND RIGHT OF WAY. PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMIT, OVERLOAD PERMIT, OBSTRUCTION PERMIT AND/OR SIDEWALK PERMIT AND MAY BE OBTAINED THROUGH THE FOLLOWING CONTACT:

TRAVIS EVANS
DEPARTMENT OF FINANCE
DIVISION OF ASSESSMENTS AND LICENSES
601 LAKESIDE AVENUE, ROOM 122
CLEVELAND, OHIO 44114
PHONE: (216) 664-2174
EMAIL: DALPERMITS@CITY.CLEVELAND.OH.US

ALL STREET OPENING REPAIRS, CURB REPAIRS, AND/OR SIDEWALK REPAIRS EITHER INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED ON-LINE UNDER THE "FORMS AND PUBLICATIONS" TAB OF THE CAPITAL PROJECTS WEBSITE OR FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING (216) 664-2381.

ALL PERMITS, FEES AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE PERTINENT WORK ITEMS PER SECTION 107.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

COOPERATION BETWEEN CONTRACTORS

IT IS ANTICIPATED THAT OTHER CONTRACTORS WILL BE WORKING ON PROJECTS ADJACENT TO OR WITHIN THE LIMITS OF THIS PROJECT, EITHER FOR THE CITY OR FOR OTHER PUBLIC AGENCIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS OPERATIONS, INCLUDING PROVISIONS FOR THE MAINTENANCE OF TRAFFIC, WITH THE CONTRACTORS OF OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THIS CONTRACT INCLUDING BUT NOT LIMITED TO NEORS, WPC, CWD, DOMINION EAST OHIO GAS COMPANY, CPP, FIRST ENERGY, TIME WARNER CABLE, VERIZON, AT&T, ODOT CONTRACTORS, ETC.

CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES

AT PROJECT LOCATIONS WHERE THE CONTRACTOR IS WORKING ADJACENT TO PROPERTY OR SERVICES OF UTILITY COMPANIES SUCH AS, BUT NOT LIMITED TO POWER, TELECOMMUNICATIONS, GAS, ETC. WORK SHALL NOT COMMENCE UNTIL ARRANGEMENTS FOR PROPER PROTECTION OF SUCH FACILITIES HAVE BEEN MADE, AS DIRECTED IN SECTION 107 OF THE ODOT CMS.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM SPECIAL - AS-BUILT RECORD DRAWINGS, AS PER D-77

A FULL SIZE SET OF AS-BUILT FIELD RECORD PLANS SHALL BE KEPT UP TO DATE IN THE FIELD OFFICE BY THE CONTRACTOR. DETAILS, LOCATIONS AND DIMENSIONS OF FIELD CHANGES SHALL BE RECORDED IN THESE PLANS BY THE CONTRACTOR'S PERSONNEL. THIS SET WILL BE SUBMITTED TO THE CITY 30 DAYS FROM THE DATE OF SUBSTANTIAL COMPLETION. FAILURE TO COMPLY: LIQUIDATED DAMAGES WILL BE ASSESSED FOR FAILURE TO COMPLY AT \$600.00 PER DAY IN CONFORMANCE WITH PROJECT MANUAL CONDITIONS.

TESTING OF CONSTRUCTION MATERIALS, AS PER D-73

SECTION D-73 OF THE TECHNICAL SPECIFICATION PROVIDES INFORMATION REGARDING TESTING REQUIREMENTS FOR MATERIALS FURNISHED AND INSTALLED ON THIS PROJECT AS WELL AS TESTING RATES. THE UNIT PRICE BID FOR PERFORMANCE OF THESE TESTS SHALL INCLUDE ANY PREMIUM TIME NECESSARY TO PERFORM WORK ON HOLIDAYS, WEEKENDS, AND/OR OVERNIGHT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL, CONCRETE TEST CYLINDERS (4 SPECIMENS PER SET), AS PER D-73 3 EACH

ITEM SPECIAL, SUBSEQUENT SLUMP AND TEMPERATURE TEST, AS PER D-73 4 EACH

ITEM SPECIAL, AIR CONTENT AND TEMPERATURE TEST, AS PER D-73 4 EACH

ITEM SPECIAL, FLEXURAL STRENGTH OF CONCRETE (BEAM) TEST, AS PER D-73 4 EACH

ITEM SPECIAL, PROCTOR TEST, AS PER D-73 4 EACH

PROJECT SIGNS

THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN PROJECT SIGNS ON THE PROJECT THROUGH COMPLETION. THE FINAL SIGNS SHALL CONFORM TO SECTION C-11 OF THE DOCUMENTS.

ITEM SPECIAL, PROJECT SIGNS, AS PER C-11 1 EACH

ROADWAY

ITEM 201 - CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING. THIS MAY BE USED FOR CLEARING ANY EXISTING VEGETATION AND REMOVING SMALL TREES TO ACHIEVE POSITIVE DRAINAGE AS NECESSARY, WITHIN THE RIGHT OF WAY AT LOCATIONS IDENTIFIED/SPECIFIED BY THE ENGINEER. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING.

ITEMS 202, 255, 452, 608, 609 ETC. REMOVAL ITEMS, AS PER PLAN

THE COST OF REMOVING AND DISPOSING OF ITEMS PURSUANT TO ITEM 202.05 INCLUDING BUT NOT LIMITED TO PAVEMENT, CONCRETE, AGGREGATE BASE COURSE, WEARING COURSE, SIDEWALKS, CURBS AND DRIVEWAYS SHALL INCLUDE THE COST OF FULL DEPTH SAW CUTTING. NO SEPARATE PAYMENT SHALL BE MADE FOR FULL DEPTH SAW CUTTING FOR THE REMOVAL OF THESE ITEMS.

PART WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP3.1.

ITEM 202 - PAVEMENT REMOVED FOR DRIVES, AS PER PLAN, AS PER D-15
ITEM 202 - PAVEMENT REMOVED, AS PER PLAN, AS PER D-15
ITEM 202 - WALK REMOVED, AS PER PLAN
ITEM 202 - CURB REMOVED, AS PER PLAN

ALL REMOVAL ITEMS THAT IMPACT PAVEMENT, DRIVES, WALKS, CURB OR OTHER HARD SURFACES SHALL INCLUDE THE COST FOR FULL-DEPTH SAW-CUTTING, AND ALL ADDITIONAL EQUIPMENT, MATERIAL AND LABOR TO PERFORM THE WORK. SAW-CUTTING SHALL BE PERFORMED AT THE NEAREST EXISTING JOINT, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

WORK UNDER THESE ITEMS SHALL INCLUDE REMOVAL OF ASPHALT, CONCRETE, BRICK, GROUT, GRANITE OR SANDSTONE BLOCK, AND/OR OTHER MATERIALS TO THE TOP OF THE EXISTING CUSHION/SAND BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE FOR DIFFERENT TYPES OF MATERIAL. PAVEMENT CORING REPORTS ARE AVAILABLE TO THE CONTRACTOR AT THE CITY OF CLEVELAND, DIVISION OF ENGINEERING AND CONSTRUCTION.

ITEM 202 PAVEMENT REMOVED, AS PER PLAN, AS PER D-15 SHALL INCLUDE THE REMOVAL OF ALL DRIVING SURFACE AND OTHER PAVED SHOULDERS/PARKING AREAS. THE LIMITS FOR REMOVAL SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL REQUIREMENTS FOR ITEM 202 PAVEMENT REMOVED, AS PER PLAN, AS PER D-15 ARE PROVIDED IN SUPPLEMENTAL SPECIFICATION DS-II.

ITEM 202 CURB REMOVED, AS PER PLAN, SHALL INCLUDE THE REMOVAL OF EXISTING ADJACENT UNDERDRAINS. NO SEPARATE PAYMENT WILL BE MADE FOR UNDERDRAIN REMOVAL. THE LIMITS FOR REMOVAL SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ITEM 202 PAVEMENT REMOVED FOR DRIVES, AS PER PLAN, AS PER D-15 SHALL INCLUDE THE REMOVAL OF ALL DRIVEWAY APRONS AND THE PORTION OF THE WALK AT THE BACK OF THE APRON AS SHOWN ON THE DRIVEWAY SUBSUMMARY SHEET.

ITEM 202 WALK REMOVED, AS PER PLAN, SHALL INCLUDE THE REMOVAL OF ALL SIDEWALK MARKED FOR REMOVAL ON THE PLAN SHEETS WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE ENGINEER. THE LIMITS FOR REMOVAL SHALL BE AS DIRECTED BY THE ENGINEER. WHEN WALK IS BEING REMOVED ADJACENT TO EXISTING WALK TO REMAIN, REMOVAL LIMITS SHALL EXTEND TO THE NEAREST EXISTING WALK JOINT/DIVISION LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. EXACT LOCATIONS AND LIMITS OF EXISTING WALK REMOVAL/REPLACEMENT SHALL BE ESTABLISHED AND DESIGNATED BY THE ENGINEER. AEROSOL SPRAY PAINT FOR OUTLINING SHALL BE PROVIDED BY THE CONTRACTOR.

SIDE ROAD PAVEMENT REMOVAL

THE COMPOSITION OF SIDE ROAD PAVEMENTS REMOVED MAY DIFFER FROM THE TYPICAL SECTIONS. THE COST PER SQUARE YARD FOR ITEM 202 - PAVEMENT REMOVED, AS PER PLAN, AS PER D-15 REMOVED SHALL INCLUDE THE COMPLETE REMOVAL OF THESE PAVEMENTS AS SHOWN ON THE PLANS OR AS DIRECTED IN ACCORDANCE WITH ITEM 202 OR ITEM 203.

PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 8 HOURS

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GENERAL NOTES

E. 159 & EUCLID BEACH

ROADWAY (CONTINUED)

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, AS PER D-23, D-24, D-76

IN ADDITION TO THE REQUIREMENTS OF ITEM 608, D-23, D-24, AND D-76, THE FOLLOWING SHALL APPLY:

REQUIRED SUBBASE - ALL CONCRETE FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, AS PER D-23, D-24 AND D-76 WILL HAVE A 2" COMPACTED #10 LIMESTONE SCREENINGS INSTALLED AS PART OF THE SUBBASE BELOW THE CONCRETE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS SUBBASE SPECIFICATION.

SURFACE TEXTURE - WALK SHALL BE TEXTURED BY USE OF AN ACCEPTED BROOM SO AS TO PRODUCE A UNIFORM, GRITTY, TRANSVERSE TEXTURE, AFTER WHICH, THE CONTRACTOR IS REQUIRED TO RETRACE THE PREVIOUSLY FORMED JOINTS AND OUTSIDE EDGES OF THE WALK. WALK SHALL BE RETRACED PICTURE FRAME TOOL JOINTED.

TREE ROOTS - WHERE TREE ROOTS ARE ENCOUNTERED ALONG THE CORRIDOR THAT PROHIBIT THE CONTRACTOR FROM INSTALLING THE WALK IN THE SPECIFIED LOCATION THE CONTRACTOR SHALL PRUNE THE ROOTS AWAY FROM THE WALK LIMITS AS DESCRIBED IN THE "ROOT PRUNING" CITY OF CLEVELAND SPECIFICATION D-71.

CROSS SLOPE - A MINIMUM 4' WIDE ACCESSIBLE ROUTE WITH A MAXIMUM 2% CROSS SLOPE SHALL BE PROVIDED FOR ALL WALK REPLACEMENT AREAS. WALK SHALL MAINTAIN POSITIVE DRAINAGE TO THE STREET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE COST OF THE MATERIAL AND LABOR ASSOCIATED WITH THE ABOVE WORK IS INCLUDED IN THE CONTRACT UNIT PRICE BID.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 608 - 6" CONCRETE WALK, AS PER PLAN

XXX SF

ITEM 608 - CURB RAMP, AS PER PLAN, AS PER D-75

UNDER THIS PAY ITEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND CONSTRUCTING AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT CURB RAMPS AND LANDINGS THAT CONFORM TO THE CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS AND SPECIAL PROVISIONS. CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS, TYPE I THROUGH TYPE II, SHALL BE USED AS A BASE FOR CONSTRUCTION OF THE CURB RAMPS. THE CURB RAMP TYPE IS SUBJECT TO ADJUSTMENT AND/OR CHANGE DUE TO FIELD CONDITIONS AND SHALL BE DETERMINED IN THE FIELD BASED ON BEST FIT TO FIELD CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TYPE OF CURB RAMP PROPOSED IN THE PLANS. NO ADDITIONAL PAYMENT SHALL BE MADE IF THE CURB RAMP TYPE IS CHANGED OR FOR FIELD ADJUSTMENTS NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP.

ANY NEWLY CONSTRUCTED CURB RAMP NOT MEETING ADA REQUIREMENTS WILL BE REMOVED AND REPLACED BY THE CONTRACTOR, AT THEIR COST, TO THE SATISFACTION OF THE CITY AND ODOT.

PAYMENT SHALL BE MEASURED IN SQUARE FEET FOR CURB RAMP AREAS AS INDICATED ON CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS, TYPE I THROUGH TYPE II, THE CURB RAMPS PAY LIMITS DETAILS BELOW, AND AS INDICATED ON THE PLAN SHEETS. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT THE NEW CURB RAMP, COMPLETE IN PLACE. PAYMENT INCLUDES EXCAVATION, PLACEMENT OF 2" SCREENINGS BED, FORM WORK, LAYOUT AND PLACEMENT OF TRUNCATED DOME TACTILE STRIPS. ANY REMOVAL OF EXISTING WALK AND PLACEMENT OF 4-INCH WALK THROUGH THE RAMP AREAS ARE PAID UNDER SEPARATE ITEMS. ALL SAWCUTTING, APPURTENANCES, AND OTHER WORK NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL TOPSOIL, SEEDING, AND MULCHING REQUIRED ADJACENT TO THE CURB RAMP SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEEDING MIX SHALL CONFORM TO ODOT CMS 659.08 HIGH QUALITY SEEDS, CLASS 1.

CURB RAMPS SHALL INCLUDE DETECTABLE WARNING CONSISTING OF TRUNCATED DOME TILES TINTED BRICK RED AND CONFORMING TO 712.14 AND THE CITY OF CLEVELAND CURB RAMP SPECIAL PROVISIONS. THE TRUNCATED DOMES SHALL HAVE A NOMINAL DIAMETER OF 0.9-INCH AND A NOMINAL HEIGHT OF 0.2-INCH. THE TILES SHALL BE 24 INCHES WIDE IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, BUT NOT ON THE FLARE SURFACE. THE TILES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE OR OTHER POTENTIAL HAZARD.

ITEM SPECIAL - UNDERCUTTING SUBGRADE AND SUBBASE, AS PER D-16

WHERE SOFT SUBGRADE IS ENCOUNTERED, DUE TO NO FAULT OR NEGLIGENCE OF THE CONTRACTOR, THE UNSTABLE MATERIAL SHALL BE EXCAVATED TO THE DEPTH APPROVED BY THE ENGINEER, AND DISPOSED OF IN ACCORDANCE WITH D-16 AND 203.05. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SITE DRAINAGE TO ENSURE THAT THE SUBGRADE DOES NOT BECOME SATURATED. THIS MAY INCLUDE THE NEED TO PROVIDE SUMP AND PUMPS IF SUFFICIENT OUTLETS ARE NOT AVAILABLE FOR STORMWATER DRAINAGE. THE UNDERCUT SUBGRADE SHALL BE REPLACED WITH NO. 1'S AND 2'S (PER TABLE 703.01-1 AASHTO M 43), CHOKED WITH ITEM 304, AND PLACED AND COMPACTED IN ACCORDANCE WITH ITEM 304. THE AREA SHALL BE PROOF ROLLED TO DETERMINE IF ADEQUATE STABILIZATION WAS ACHIEVED.

GEOTEXTILE FABRIC, TYPE D, 712.09 SHALL BE REQUIRED AT THE UNDERCUT DEPTHS BEFORE PLACING THE ABOVE STONE. PAYMENT FOR ITEM 204 - GEOTEXTILE FABRIC, TYPE D, 712.09 SHALL BE PER SQUARE YARD AND SHALL BE ITEMIZED SEPARATELY.

AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL CONSTRUCT AN AGGREGATE DRAIN 1 FT BY 1 FT WITH NO. 3 STONE IN FABRIC SOCK, TO BE PLACED AT THE APPROXIMATE LOW POINT OF STABILIZED AREAS TO DISCHARGE DRAINAGE INTO THE UNDERDRAIN AGGREGATE. PAYMENT FOR THE AGGREGATE DRAIN SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL COMPLETE IN PLACE. PAYMENT FOR THE AGGREGATE DRAIN SHALL BE PER FT AND SHALL BE ITEMIZED SEPARATELY.

WHERE SOFT SUBGRADE IS DUE TO THE FAILURE, NEGLIGENCE OR ANY OTHER FAULT OF THE CONTRACTOR, THE UNSTABLE CONDITION SHALL BE CORRECTED AS OUTLINED ABOVE AT NO ADDITIONAL EXPENSE TO THE PROJECT.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL EXCAVATION, EMBANKMENT, AGGREGATE AND ADDITIONAL PROOF ROLLING, AND SHALL BE PAID FOR AT THE BID UNIT PRICE PER CUBIC YARD FOR ITEM SPECIAL - UNDERCUTTING SUBGRADE AND SUBBASE, AS PER D-16.

THE FOLLOWING CONTINGENCY QUANTITIES ARE TO BE USED FOR AREAS DETERMINED AFTER PROOF ROLLING AND FIELD TESTS, AS NOT ACHIEVING THE PROPER COMPACTION REQUIREMENTS:

ITEM SPECIAL - UNDERCUTTING SUBGRADE AND SUBBASE, AS PER D-16

ITEM ITEM 204 - GEOTEXTILE FABRIC, TYPE D, 712.09

ITEM ITEM 204 - AGGREGATE DRAINS

XXX CY

XXX SY

XXX FT

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, AS PER D-41

WHERE MONUMENT BOXES ARE BOTH SUITABLE FOR RE-USE AND CONFORM TO THE CITY OF CLEVELAND'S MONUMENT BOX & ASSEMBLIES STANDARD CONSTRUCTION DRAWING MB-1C, THEY SHALL BE ADJUSTED TO GRADE AS REQUIRED AND SPECIFIED. WHERE THE PLANS CALL FOR THE EXISTING MONUMENT BOXES TO BE REPLACED, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT BOX AND REPLACE IT AS DETAILED ON THE CITY OF CLEVELAND'S MONUMENT BOX & ASSEMBLIES STANDARD CONSTRUCTION DRAWING MB-1C; SET TO PROPER GRADE.

CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONUMENTS DURING PAVEMENT REMOVAL OPERATIONS. CONTRACTOR SHALL UTILIZE FULL-DEPTH SAW CUTS AROUND EXISTING MONUMENTS IN BASE REPAIR AREAS WHENEVER NECESSARY TO AVOID MONUMENT DAMAGE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.

IN ADDITION TO ADJUSTING THE CASTING VERTICALLY, THIS PAY ITEM SHALL INCLUDE CENTERING THE CASTING OVER THE EXISTING IRON PIN OR STONE. THE ENTIRE MONUMENT BOX CASTING SHALL BE ADJUSTED TO GRADE; NO INSERTS OR ADJUSTING RINGS WILL BE PERMITTED.

IF AN EXISTING MONUMENT IS MISSING OR SEVERELY DAMAGED, A NEW MONUMENT SHALL BE RESET BY CITY OF CLEVELAND SURVEY DEPARTMENT IN COORDINATION WITH THE CONTRACTOR AND ASSEMBLY SHALL BE INSTALLED AND PAID FOR AS ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN.

IF THE EXISTING IRON PIN OR STONE IS EITHER MISSING OR DAMAGED, A NEW MONUMENT ASSEMBLY SHALL BE INSTALLED AND PAID FOR AS ITEM 623- MONUMENT ASSEMBLY, AS PER PLAN.

ALL MONUMENTS EXISTING AND PROPOSED MUST BE REFERENCED PRIOR TO CONSTRUCTION. A MINIMUM OF 3-REF. PTS. PER MON. MUST BE USED AND MUST BE LOCATED OUTSIDE OF THE CONSTRUCTION ZONE (WORK AREA). CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO PRESERVE EXISTING MONUMENTS. ALL MONUMENTS DISTURBED AND/OR DESTROYED SHALL BE RESET AS DETAILED ON THE CITY OF CLEVELAND'S MONUMENT BOX & ASSEMBLIES STANDARD CONSTRUCTION DRAWING MB-1C.

PRIOR TO BEGINNING ANY WORK, A COPY OF ALL SURVEY AND REFERENCE NOTES IS TO BE SENT TO THE ATTENTION OF THE CHIEF SURVEYOR AT THE CITY OF CLEVELAND, DEPARTMENT OF PUBLIC SERVICE, DIVISION OF ENGINEERING AND CONSTRUCTION, 601 LAKESIDE AVE. ROOM 518, CLEVELAND, OH. 44114. (216) 664-2460.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE:

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, AS PER D-41 2 EACH

ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN, AS PER D-40

WHERE EXISTING MONUMENT BOXES ARE TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT ASSEMBLY AND REPLACE IT WITH A CITY OF CLEVELAND MONUMENT ASSEMBLY AS DETAILED ON THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C. PAYMENT FOR THE ABOVE SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN, AS PER D-40.

CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO AVOID DAMAGE OR DISPLACEMENT OF THE EXISTING MONUMENT DURING THE OPERATIONS IN THE PROXIMITY. WHERE PAVEMENT REMOVAL IS NECESSARY ADJACENT TO A MONUMENT BOX, SAW-CUTTING OF THE ADJACENT PAVEMENT WILL BE REQUIRED TO HELP PRESERVE THE MONUMENT. ALL EXISTING MONUMENTS DISPLACED OR DAMAGED DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE RESET BY THE CITY OF CLEVELAND SURVEY DEPARTMENT THROUGH COORDINATION WITH THE CONTRACTOR IN THE FIELD. ALL WORK AND MATERIAL USED AS A RESULT OF NEGLIGENCE WILL BE AT THE CONTRACTOR'S EXPENSE.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN, AS PER D-47

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 623 AND AS MODIFIED BELOW:

A) CONTRACTOR SHALL FURNISH DIMENSIONS, MEASUREMENT, SKETCHES, ETC. NECESSARY TO DETERMINE PAY QUANTITIES. THIS WILL MAINLY APPLY TO CHANGE ORDERS, QUANTITIES TO BE USED AS DIRECTED AND DISPUTED PAYMENT QUANTITIES OR CALCULATIONS.

B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SURVEYING, CALCULATIONS AND/ OR LAYOUT NOT FURNISHED IN THE BID DOCUMENTS TO COMPLY WITH THE ENGINEER'S DIRECTION. CONTRACTOR SHALL PROVIDE CUT SHEETS, TEMPORARY BENCHMARKS, AND LAYOUT (INCLUDING STATIONING AND HUBS) AS DIRECTED BY THE ENGINEER OR THEIR REPRESENTATIVE. ALL STATIONING AND REFERENCE MARKS SHALL BE MAINTAINED AS DIRECTED BY THE ENGINEER OR THEIR REPRESENTATIVE.

C) THE CONTRACTOR SHALL USE COMPETENT PERSONNEL AND SUITABLE EQUIPMENT FOR THE LAYOUT WORK REQUIRED AND SHALL PROVIDE THAT IT BE DONE UNDER THE SUPERVISION OF A REGISTERED SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF OHIO.

D) THE CONTRACTOR IS TO PROVIDE "AS-BUILT" DRAWINGS SHOWING ALL ELEVATIONS AND INVERTS, LOCATIONS OF ROADWAYS BOTH HORIZONTAL AND VERTICAL. THESE DRAWINGS AND/OR CAD DRAWINGS SHALL BE DRAWN ON MYLARS OR CAD FILES (IF AVAILABLE) PROVIDED BY THE CITY. THE INSPECTOR SHALL SIGN THE SHEETS VERIFYING THAT ALL CHANGES HAVE BEEN SHOWN ON THE "AS-BUILT" DRAWINGS. THE INSPECTOR IS NOT RESPONSIBLE FOR THE ACCURACY OF THE LOCATIONS OR ELEVATIONS. ALL ELEVATIONS AND LOCATIONS ARE TO BE CERTIFIED BY THE REGISTERED SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF OHIO.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN, AS PER D-47.

EROSION CONTROL

ITEM 659 - SEEDING AND MULCHING, CLASS 1, AS PER PLAN, HIGH QUALITY

SEEDING AND MULCHING SHALL BE IN CONFORMANCE WITH ODOT CMS 659.07, HIGH QUALITY SEEDS, CLASS 1.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED THROUGH TO THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 653 - TOPSOIL FURNISHED AND PLACED

XX CY

ITEM 659 - SEEDING AND MULCHING, CLASS 1, AS PER PLAN, HIGH QUALITY

XXX SY

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TEMPORARY SEDIMENT AND EROSION CONTROL

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED HEREIN OR DIRECTED BY THE ENGINEER SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THESE CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER.

CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL EXISTING OR PROPOSED CATCH BASINS DOWNSTREAM FROM UNSTABILIZED AREAS. REFER TO THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL, CHAPTER 6 FOR DETAILS.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS PLACED BY THE CONTRACTOR WITH ENGINEERS' CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 832 - EROSION CONTROL, AS PER PLAN, AS PER D-22 7,500 EACH

DRAINAGE

CONSTRUCTION STANDARD FOR SEWERS

- A. ALL SEWER CONSTRUCTION AND MATERIALS INCLUDED ON THIS PROJECT SHALL BE IN ACCORDANCE TO THE STANDARDS OF THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL.
- B. ALL PIPES 18" IN DIAMETER AND SMALLER SHALL BE VCP, C-700 EXTRA STRENGTH WITH PREMIUM JOINTS AS PER ODOT 706.08.
- C. ALL PIPES 21" IN DIAMETER AND LARGER SHALL BE RCP, CLASS 3 WITH PREMIUM JOINTS AS PER ODOT 706.02.
- D. ALL PIPES LESS THAN 3' OF COVER SHALL BE DUCTILE IRON PIPE ANSI CLASS 52, WITH PUSH ON JOINTS AND FITTINGS.
- E. THE REPAIR OF ALL DISTURBED CITY BRICK SEWERS SHOULD BE COORDINATED WITH WPC ENGINEER.
- F. FOR THE SEWER CONNECTION REPAIR, THE FOLLOWING GUIDELINES SHALL BE USED:
 - a. REPAIR ALL DAMAGED SEWER CONNECTIONS IN KIND.
 - b. USE VCP FOR ALL REPAIRED/RELOCATED CONNECTIONS.
 - c. ALL SEWER REPAIRED/RELOCATED CONNECTIONS SHALL BE LAID AT NO LESS THAN 1% GRADE.
 - d. THE MINIMUM SIZE FOR A SEWER CONNECTION SHALL BE 6".
 - e. A MINIMUM COVER OF 3 FEET IS REQUIRED FOR ALL PROPOSED SEWER CONNECTIONS.
 - f. A 6" VCP TEST TEE MAY BE REQUIRED FOR A RELOCATED SEWER CONNECTION.
 - g. NO HORIZONTAL BENDS ARE ALLOWED FOR SEWER CONNECTIONS.

CONSTRUCTION TO EXISTING UTILITIES

PRIOR TO THE INSTALLATION OF PROPOSED CONNECTIONS TO EXISTING FACILITIES THE CONTRACTOR SHALL LOCATE AND CONFIRM THE EXISTING LINE AND GRADE AT THE CONNECTION MATCHES THE PROPOSED PLAN ELEVATIONS. ANY DEVIATION FROM PLAN ELEVATIONS OR OTHER PLAN REVISIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONNECTION INSTALLATION.

PRIOR TO THE INSTALLATION OF PROPOSED CONNECTIONS THE CONTRACTOR SHALL CONFIRM CLEARANCES TO THE ADJACENT UNDERGROUND UTILITIES. A CONFLICT REQUIRING A PLAN REVISION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONNECTION INSTALLATION.

PAYMENT FOR THESE OPERATIONS DESCRIBED IN THESE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE PERTINENT ODOT ITEM 611 CONDUITS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY, REPRESENTATIVES OF THE CITY AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

ADDITIONALLY, SOME EXISTING DRAINAGE INFORMATION SHOWN ON THESE PLANS IS FROM RECORD PLAN INFORMATION AND COULD NOT BE FIELD VERIFIED. PRIOR TO THE ORDERING OF ANY PRECAST MATERIALS, THE CONTRACTOR SHALL VERIFY AND RECORD THE DEPTHS OF THE EXISTING DRAINAGE STRUCTURES WHICH ARE BEING REMOVED AND REPLACED WITH NEW.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEMS.

WATER POLLUTION CONTROL

THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS AND A VIDEOTAPE COPY (PER D-37) OF THE STORM SEWERS WHERE NEW CATCH BASINS ARE BEING PLACED (FROM THE CATCH BASIN TO THE MAINLINE) TO THE CITY OF CLEVELAND, DIVISION OF WATER POLLUTION CONTROL.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS TO PERFORM THE REQUIRED WORK. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SEWER WORK. NO SEPARATE PAY ITEM WILL BE MADE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

STRUCTURES ADJUSTED TO GRADE, RECONSTRUCTED TO GRADE, OR REPLACED, AS PER PLAN.

ALL ADJUSTMENT, RECONSTRUCTION OR REPLACED WORK, EXCEPT FOR THOSE STRUCTURES OWNED BY PRIVATE COMPANIES, SHALL BE PERFORMED BY THE CONTRACTOR, WHERE APPLICABLE. THE TIME BETWEEN RESETTING THE CASTINGS AND RESURFACING SHALL BE KEPT TO AN ABSOLUTE MINIMUM.

CASTINGS SHALL BE ADJUSTED OR RECONSTRUCTED TO GRADE AS PER D-39, IN ACCORDANCE WITH 611.10 USING CLAY BRICKS (704.01), CLEVELAND 650 CONCRETE MIX DESIGN AND/OR CONCRETE MORTAR, OR PER 638.18 AND AS SPECIFIED BELOW FOR SERVICE BOX AND VALVE BOX ADJUSTMENTS. MAXIMUM CONCRETE MORTAR THICKNESS IS 1-1/2 INCHES.

THE CONTRACTOR SHALL RESET EXISTING VALVE BOXES OR EXISTING CURB SHUT-OFF VALVE BOXES TO ESTABLISHED GRADE BY RAISING OR LOWERING THE EXISTING CASTINGS OR BY EITHER ADDING, DELETING OR CUTTING THE APPROPRIATE VALVE BOX STEM SECTIONS. IN RAISING OF THE CASTINGS, NO INSERTS WILL BE PERMITTED. ANY VALVE BOXES OR CURB SHUT-OFF VALVE BOXES FOUND TO BE DAMAGED OR UNSUITABLE FOR REUSE SHALL BE REPLACED BY THE CONTRACTOR AND PAID FOR UNDER ITEM SPECIAL - MISCELLANEOUS METAL. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY AS REQUIRED OR AS ORDERED TO COMPLETE THE ITEM.

ADJUST TO GRADE, RECONSTRUCT TO GRADE OR TOTAL REPLACEMENT WORK SHALL, WHERE REQUIRED, INCLUDE THE REMOVAL AND REPLACEMENT OF ANY EXISTING CONCRETE BLOCKOUT CURB, PAVEMENT AND/OR SIDEWALK BEHIND CATCH BASINS USING MODERATE-SETTING CONCRETE (CLASS MS) OR, IF APPROVED/DIRECTED BY THE ENGINEER, FAST-SETTING CONCRETE (CLASS FS). TO FACILITATE REMOVAL, THE BLOCKOUT PAVEMENTS SHALL BE SAWED FULL DEPTH ALONG THE LIMITS OF THEIR REMOVAL UNLESS OTHERWISE DESIGNATED/DIRECTED BY THE ENGINEER. UNLESS OTHERWISE APPROVED/DIRECTED BY THE ENGINEER, BLOCKOUT PAVEMENT, REINFORCING STEEL, JOINT MATERIAL AND LOAD TRANSFER DEVICES SHALL BE REPLACED/INSTALLED IN ACCORDANCE WITH THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING CONC-1 AND PR-1. ALL COSTS ASSOCIATED WITH THE BLOCKOUT REMOVALS/REPLACEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE PER EACH BID ITEMS.

ALL EXISTING CASTINGS FOR STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED TO GRADE SHALL BE FIELD CHECKED AT THE TIME OF CONSTRUCTION AND MARKED SUITABLE FOR SALVAGE AND REUSE OR REPLACED AS DIRECTED BY THE ENGINEER UNLESS OTHERWISE INDICATED ON THE PLAN. REPLACEMENT CASTINGS ARE PAID UNDER ITEM SPECIAL - MISCELLANEOUS METAL, (WPC), AS PER D-72.

THE ENGINEER WILL DETERMINE THE ITEM 611 WORK REQUIRED BASED ON THE GUIDELINES STIPULATED BELOW:

1. "ADJUST TO GRADE, AS PER PLAN" SHALL INCLUDE ALL WORK SPECIFIED IN 611.10 AS NECESSARY TO RAISE THE EXISTING/NEW CASTING NO MORE THAN ONE (1) FOOT FROM ITS EXISTING ELEVATION OR TO LOWER THE EXISTING/NEW CASTING NO MORE THAN SIX (6) INCHES FROM ITS EXISTING ELEVATION. IN ADDITION, THIS ITEM WILL INCLUDE ANY SUPPORTING WALL REPAIR WORK NECESSARY, UP TO SIX (6) INCHES BELOW THE TOP OF THE EXISTING SUPPORTING WALL.

PAYMENT SHALL BE MADE UNDER THE APPROPRIATE STRUCTURE (ITEM 611) ADJUSTED TO GRADE.

2. "RECONSTRUCT TO GRADE, AS PER PLAN" SHALL INCLUDE ALL WORK SPECIFIED IN 611.10 AND SHALL ALSO INCLUDE EXISTING/NEW CASTINGS RAISED MORE THAN ONE (1) FOOT FROM THEIR EXISTING ELEVATION OR LOWERED MORE THAN SIX (6) INCHES FROM THEIR EXISTING ELEVATION. IN ADDITION, THIS ITEM WILL INCLUDE ANY SUPPORTING WALL REPAIR WORK NECESSARY, MORE THAN SIX (6) INCHES BELOW THE TOP OF THE EXISTING SUPPORTING WALL.

THE WORK LIMIT SHALL BE SPECIFIED BY THE ENGINEER AND PAYMENT SHALL BE MADE UNDER THE APPROPRIATE STRUCTURE (ITEM 611) RECONSTRUCTED TO GRADE.

3. "REPLACE" SHALL INCLUDE ALL WORK SPECIFIED IN 611.10 AND SHALL ALSO INCLUDE PROVIDING THE NECESSARY CONDUIT AND COLLARS TO REPAIR/RESTORE THE EXISTING CONNECTION TO THE PROPOSED STRUCTURE.

PAYMENT SHALL BE MADE UNDER THE APPROPRIATE STRUCTURE (ITEM 611).

ONLY ONE (1) OF THE ABOVE PAYMENT ITEMS MAY BE USED PER STRUCTURE.

"RECONSTRUCT TO GRADE, AS PER PLAN" WORK SHALL NOT BE PERFORMED UNLESS SPECIFICALLY INDICATED IN THE PLANS OR OTHERWISE ORDERED BY THE ENGINEER. ANY SUCH WORK MADE NECESSARY DUE TO THE CONTRACTOR'S NEGLIGENT OPERATIONS, AS DETERMINED BY THE ENGINEER, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

ITEM SPECIAL - MISCELLANEOUS METAL, (WPC), AS PER D-72

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - MISCELLANEOUS METAL, (WPC), AS PER D-72 X,000 LB

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1), AS PER D-31

A CONTINGENCY QUANTITY FOR ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1) HAS BEEN CARRIED THROUGH TO THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1), AS PER D-31 75 CY

CALCULATED CSK CHECKED AWD
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DRAINAGE (CONTINUED)

ITEM 202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN

PIPE REMOVALS THAT OCCUR IN THE SAME TRENCH AS PROPOSED PIPE ARE INCIDENTAL TO THE PROPOSED PIPE AND NO SEPARATE PAYMENT SHALL BE MADE.

ITEM 202 - CATCH BASIN REMOVED, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS SET FOR IN 202.11 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR ABANDONMENT AND/OR CONNECTION OF PIPE ENTERING OR EXITING THE STRUCTURES TO BE REMOVED OR ABANDONED. AT SEVERAL LOCATIONS ALONG THE CORRIDOR PIPE LOCATIONS, DESTINATIONS AND LENGTHS ARE UNKNOWN. WHEN REMOVING A STRUCTURE THE CONTRACTOR SHALL ATTEMPT TO IDENTIFY THE DESTINATION OF FOUND PIPES BEFORE REMOVAL. IT IS EXPECTED THAT SOME EXISTING STRUCTURES MARKED FOR REMOVAL OR ABANDONMENT WILL HAVE ACTIVE ROOF DRAINS, UNDERDRAINS OR YARD DRAINS THAT WILL NEED TO BE ABANDONED OR TRACED BACK TO THE SOURCE AND ROUTED TO ANOTHER OUTLET FACILITY.

THE CONTRACT BID ITEM COST FOR THE REPLACEMENT OF AN EXISTING CATCH BASIN WITH A NEW CATCH BASIN SHALL INCLUDE THE REMOVAL AND DISPOSAL COST OF SAID EXISTING CATCH BASIN UNLESS A SEPARATE PAY ITEM FOR THE REMOVAL OF THE CATCH BASIN IS INCLUDED IN THE CONTRACT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE. PAYMENT FOR ACTUALLY COMPLETED AND ACCEPTED QUANTITIES SHALL BE MADE AT THE CONTRACT UNIT BID PRICE:

ITEM 202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN 00 FT

ITEM 611 - CATCH BASIN, CITY OF CLEVELAND CB-1, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS SET FOR IN 202.11 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR ABANDONMENT AND/OR CONNECTION OF PIPE ENTERING OR EXITING THE STRUCTURES TO BE REMOVED OR ABANDONED. AT SEVERAL LOCATIONS ALONG THE CORRIDOR PIPE LOCATIONS, DESTINATIONS AND LENGTHS ARE UNKNOWN. WHEN REMOVING A STRUCTURE THE CONTRACTOR SHALL ATTEMPT TO IDENTIFY THE DESTINATION OF FOUND PIPES BEFORE REMOVAL. IT IS EXPECTED THAT SOME EXISTING STRUCTURES MARKED FOR REMOVAL OR ABANDONMENT WILL HAVE ACTIVE ROOF DRAINS, UNDERDRAINS OR YARD DRAINS THAT WILL NEED TO BE ABANDONED OR TRACED BACK TO THE SOURCE AND ROUTED TO ANOTHER OUTLET FACILITY.

THE CONTRACT BID ITEM COST FOR THE REPLACEMENT OF AN EXISTING CATCH BASIN WITH A NEW CATCH BASIN SHALL INCLUDE THE REMOVAL AND DISPOSAL COST OF SAID EXISTING CATCH BASIN UNLESS A SEPARATE PAY ITEM FOR THE REMOVAL OF THE CATCH BASIN IS INCLUDED IN THE CONTRACT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE. PAYMENT FOR ACTUALLY COMPLETED AND ACCEPTED QUANTITIES SHALL BE MADE AT THE CONTRACT UNIT BID PRICE:

ITEM 202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN 00 FT

PAVEMENT

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. CONTRACTOR TO PROVIDE A MINIMUM TRANSVERSE CROSS SLOPE OF 1.6%. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AT GUTTER LINE.

CONTRACTION JOINTS IN CONCRETE PAVEMENT

WHERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING CONCRETE, CONTRACTION JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE SO AS TO FORM CONTINUOUS JOINTS WITH THOSE IN THE EXISTING CONCRETE.

THE MAXIMUM DISTANCE BETWEEN THE JOINTS IN THE NEW CONCRETE SHALL BE 15 FEET AND IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND CITY OF CLEVELAND STANDARD DRAWING CONC-1. IF NECESSARY, ADDITIONAL JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED THE MAXIMUM SPACING.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL BE 15 FEET AND IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS. EXPANSION JOINTS SHALL HAVE SPACING OF APPROXIMATELY 300' AND PRIOR TO EACH INTERSECTION.

DOWEL BASKET ASSEMBLIES

WHERE DOWEL BASKET ASSEMBLIES ARE USED BY THE CONTRACTOR, ALL SPACER WIRES (SHIPPING WIRES) SHALL BE REMOVED FROM THE BASKET ASSEMBLIES PRIOR TO PAVING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE DOWEL BASKET ASSEMBLIES ARE STABLE AND HELD FIRMLY IN PLACE. ALL DOWELS AND BASKETS SHALL BE EPOXY COATED PER 709.13.

ITEM 304 - 8" MIN. AGGREGATE BASE, AS PER PLAN

MATERIAL FURNISHED FOR THIS ITEM SHALL BE A "MODIFIED 304" AS SPECIFIED BY THE GEOTECHNICAL ENGINEER AND AS SHOWN IN THE GEOTECHNICAL EVALUATION REPORT IN THE SPECIFICATIONS.

ITEM 409 - SEALING, MISC.: CONCRETE SEALER, AS PER D-28

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO APPLY PORTLAND CEMENT CONCRETE SEALANT TO ALL NEWLY CONSTRUCTED CONCRETE ROADWAY SURFACES PER CITY OF CLEVELAND SPECIFICATION D-28.

**ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN, AS PER D-23 & D-24
ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN, AS PER D-23 & D-24**

ALL APPLICABLE PROVISIONS OF ITEM 452 SHALL APPLY EXCEPT AS MODIFIED HEREIN.

CONCRETE SHALL BE ODOT CLASS QC MS AND IN ACCORDANCE WITH THE CITY OF CLEVELAND CONCRETE MIX DESIGN (CLEVELAND 650).

CONCRETE MIX DESIGN (CLEVELAND 650)

CAST-IN-PLACE CONCRETE SHALL BE PROVIDED IN ACCORDANCE WITH THE ODOT CMS EXCEPT THE MINIMUM CONTENT OF THE MIX SHALL BE 650 LBS. PORTLAND CEMENT PER CUBIC YARD.

CONCRETE MIX DESIGN FOR CLASS QC MS CONCRETE

REQUIREMENT	DESCRIPTION
MINIMUM COMPRESSIVE STRENGTH	400 PSI MODULUS OF RUPTURE AS PER ASTM C-78 IN 24 HOURS. THE RESULTS OF THE 24 HOUR BEAM TEST SHALL BE FURNISHED IN ADDITION TO THE RESULTS OF THE TWENTY-EIGHT (28) DAY CYLINDER TESTS.
MINIMUM CEMENT CONTENT	800 LBS.; FLY ASH OR ADDITIONAL AGGREGATE SHALL NOT BE USED AS A SUBSTITUTE FOR THE CEMENT.
WATER CEMENT RATIO	0.43 MAXIMUM
CALCIUM CHLORIDE SHALL NOT BE USED IN THIS DESIGN MIX.	

ITEM 609 - CURB, TYPE 2A, AS PER PLAN, AS PER D-23 AND D-24

ALL APPLICABLE PROVISIONS OF ITEM 609 SHALL APPLY EXCEPT AS MODIFIED HEREIN.

CONCRETE SHALL BE ODOT CLASS QC MS AND IN ACCORDANCE WITH THE CITY OF CLEVELAND CONCRETE MIX DESIGN (CLEVELAND 650).

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GENERAL NOTES

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MAINTENANCE OF TRAFFIC NOTES

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ABUTTING PROPERTY. THE CONTRACTOR SHALL MAINTAIN SAFE AND CLEAR PEDESTRIAN MOVEMENT THROUGH THE CONSTRUCTION ZONE AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ADEQUATE PEDESTRIAN WALKS AT ALL INTERSECTIONS, INCLUDING ASPHALT CONCRETE WALKS, WHERE DIRECTED BY THE ENGINEER.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS, SUPPORTS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, LIGHTING, FLAGGERS, WORK ZONE PAVEMENT MARKINGS/STRIPING, DRUMS, ETC. SHALL BE PROVIDED SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

EXISTING TRAFFIC CONTROL DEVICES (SIGNS AND/OR TRAFFIC SIGNALS), LOCATED WITHIN THE WORK AREA, WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED, IN COMPLIANCE WITH THE MANUAL, AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF RELOCATION, IF REQUIRED, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY PLASTIC DRUMS, FLASHING ARROW PANELS COMPLYING WITH ODOT CMS 614 AND TRAFFIC SIGNS AND WORK ZONE PAVEMENT MARKINGS AS SHOWN ON THESE PLANS. PAYMENTS FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST SEVENTY-TWO (72) HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGES IN TRAFFIC PATTERNS OF CLOSING OF ANY STREET TO TRAFFIC:

CITY OF CLEVELAND:

DIVISION OF ENGINEERING AND CONSTRUCTION P: (216) 664-2381
DIVISION OF STREETS P: (216) 664-2510
DIVISION OF TRAFFIC ENGINEERING P: (216) 623-5000

CITY OF CLEVELAND DEPARTMENT OF PUBLIC SAFETY:

DIVISION OF EMERGENCY MEDICAL SERVICES (EMS) P: (216) 664-2555
DIVISION OF FIRE P: (216) 664-6800
DIVISION OF POLICE P: (216) 623-5000

CLEVELAND METROPOLITAN SCHOOL DISTRICT P: (216) 838-0953
E-MAIL: eric.taylor@clevelandmetroschools.org
OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 12 PUBLIC INFORMATION P: (216) 584-2005
E-MAIL: D12.Public.Information@dot.ohio.gov

GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY (RTA) SERVICE
PLANNING MANAGER P: (216) 781-4547
FOR URGENT ASSISTANCE, CONTACT SERVICE QUALITY AT (216) 566-5110

COORDINATION

THE ENGINEER AND CONTRACTOR SHALL WORK WITH THE LOCAL BUSINESS OWNERS, AND RESIDENTS TO ENSURE ACCESS TO ALL PROPERTIES AT ALL TIMES. HOWEVER, SOME INCONVENIENCES WILL OCCUR. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE COORDINATION OR PROVIDING ACCESS TO THE BUSINESSES AND RESIDENCES.

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA.

TRAFFIC SIGNING

ADVANCE TRAFFIC SIGNING, INCLUDING DETOUR SIGNING, CONSTRUCTION WORK ZONE APPROACH SIGNING, BARRICADES AND SIGNS ON BARRICADES BEYOND THE WORK LIMITS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

PORTABLE CHANGEABLE MESSAGE SIGNS

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS), ON SITE, WITH MINIMUM LEGIBILITY DISTANCES OF 475 FEET, TWO (2) WEEKS PRIOR TO PROJECT MOBILIZATION.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO ODOT C&MS 614.03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PCMS SHALL BE LOCATED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

ALL MESSAGES TO BE DISPLAYED ON THE PCMS WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE PCMS SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, AND MESSAGE ADDITIONS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF ODOT C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN TWELVE (12) HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND/OR IN THE CITY TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE CITY DUE TO THE CONTRACTORS NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON THIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THE PCMS FOR THE DURATION OF THE PROJECT.

PAYMENT FOR THIS ITEM, INCLUDING BUT NOT LIMITED TO, ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 4 MONTHS

TEMPORARY RAMPING OF VERTICAL SURFACES

IN ORDER TO PROVIDE FOR LOCAL ACCESS, LONGITUDINAL VERTICAL FACES ABUTTING DRIVES SHALL BE TEMPORARILY RAMPED. TRANSVERSE VERTICAL FACES EXPOSED TO TRAFFIC (SUCH AS IN INTERSECTIONS) SHALL BE TEMPORARILY RAMPED A MINIMUM OF TEN (10) FEET IN LENGTH AND SHALL BE WARNED WITH "BUMP" (W8-1) SIGNS IN ADVANCE OF THE RAMPED AREA IN BOTH DIRECTIONS.

ALL CASTINGS ENCOUNTERED SHALL BE SET TO GRADE AND PAID FOR UNDER VARIOUS ITEMS DESCRIBED ELSEWHERE IN THE GENERAL NOTES OR SPECIFICATIONS. THE CASTING ELEVATION DIFFERENTIAL SHALL NOT BE GREATER THAN ONE (1) INCH WHEN EXPOSED TO TRAFFIC.

CASTINGS MAY BE REQUIRED TO BE ADJUSTED MORE THAN ONCE, BUT PAYMENT FOR ADJUSTING WILL ONLY BE PAID ONCE. WHEN CONSTRUCTION IS ADJACENT TO DRIVES, MAINTAIN ACCESS TO DRIVES BY ONLY CONSTRUCTING THE PORTIONS OF THE ROADWAY NOT IN CONFLICT WITH THE DRIVES. ADDITIONAL CONSTRUCTION JOINTS SHALL NOT BE ALLOWED BY THE ENGINEER.

IN ORDER TO PROVIDE FOR LOCAL ACCESS, LONGITUDINAL VERTICAL FACES ABUTTING ALL TEMPORARY RAMPING SHALL BE INSTALLED, AT THE DIRECTION OF THE ENGINEER, USING ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC AND/OR ITEM 410 - TRAFFIC COMPACTED SURFACE. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 -MAINTAINING TRAFFIC, AS PER PLAN.

REPLACEMENT DRUMS

THE ITEMS WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENT OF THE ORIGINAL DRUM.

PEDESTRIAN ACCESS

DURING TEMPORARY CLOSURE OR RELOCATION OF SIDEWALKS AND OTHER PEDESTRIAN FACILITIES, TEMPORARY FACILITIES SHALL BE PROVIDED. THESE FACILITIES SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY. PEDESTRIAN SIDEWALK CLOSURES, CROSSWALK CLOSURES, AND PEDESTRIAN DETOURS OR BYPASSES SHALL BE INSTALLED ACCORDING TO OMUTCD TYPICAL APPLICATIONS TA-28 AND TA-29.

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MAINTENANCE OF TRAFFIC NOTES

CUY-E. 159TH ST.

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SEQUENCE OF CONSTRUCTION

THE PROJECT IS TO BE CONSTRUCTED ONE CONSTRUCTION SEASON. THE RECONSTRUCTION OF E. 159TH STREET AND EUCLID BEACH BOULEVARD SHALL BE ACCOMPLISHED IN THREE (3) CONSTRUCTION STAGES AS OUTLINED BELOW:

STAGE 1 - RECONSTRUCTION OF E. 159TH STREET FROM LAKESHORE AVE. TO THE NORTH TURNOUT TO EUCLID BEACH BLVD.

STAGE 2 - RECONSTRUCTION OF EUCLID BEACH BLVD. FROM JUST WEST OF 159TH ST. THROUGH THE END OF THE PROJECT LIMITS.

STAGE 3 - RECONSTRUCTION OF THE E. 159TH ST. AND EUCLID BEACH BLVD. INTERSECTION AND THE RECONSTRUCTION OF THE REMAINING PORTION OF E. 159TH ST. AT LAKESHORE BLVD.

CONTRACTOR MUST COMPLETE WORK IN THE ORDER AS LISTED ABOVE. THE CONTRACTOR SHALL COMPLETE ALL WORK, EXCEPT FINAL PAVEMENT MARKING BEFORE TRANSITIONING TO A NEW STAGE.

CONSTRUCTION PHASING

STAGE 1:

PHASE A SHALL CONSIST OF THE REMOVAL OF EXISTING CURB ON THE WEST SIDE OF THE ROADWAY. THE CONTRACTOR SHALL THEN INSTALL THE PROPOSED UNDERDRAIN ALONG THE WEST SIDE AND REMOVE THE EXISTING SIDEWALK ON THIS SIDE OF THE ROADWAY FOR THE INSTALLATION OF A TEMPORARY SOUTHBOUND PAVEMENT. DURING THIS WORK TRAFFIC SHALL BE MAINTAINED USING STANDARD CONSTRUCTION DRAWING MT-97.10. AT THE CONCLUSION OF THE WORK DAY, ANY OPEN TRENCH SHALL BE PLATED OR BACKFILLED WITH GRAVEL TO THE PAVEMENT SURFACE.

PHASE B SHALL CONSIST OF RECONSTRUCTING THE NORTHBOUND LANE OF E. 159TH ST. WITH NORTHBOUND TRAFFIC BEING MAINTAINED IN THE EXISTING SOUTHBOUND LANE AND SOUTHBOUND TRAFFIC BEING MAINTAINED ON THE TEMPORARY PAVEMENT SURFACE.

PHASE C SHALL CONSIST OF RECONSTRUCTING THE SOUTHBOUND LANE OF E. 159TH ST. WITH NORTHBOUND TRAFFIC BEING MAINTAINED ON THE NEW NORTH BOUND PAVEMENT AND SOUTHBOUND PAVEMENT BEING MAINTAINED ON THE TEMPORARY PAVEMENT SURFACE.

STAGE 2:

PHASE A SHALL CONSIST OF THE REMOVAL OF EXISTING CURB ON THE SOUTH SIDE OF THE ROADWAY. THE CONTRACTOR SHALL THEN INSTALL THE PROPOSED UNDERDRAIN ALONG THE SOUTH SIDE AND REMOVE THE EXISTING SIDEWALK ON THIS SIDE OF THE ROADWAY FOR THE INSTALLATION OF A TEMPORARY EASTBOUND PAVEMENT. DURING THIS WORK TRAFFIC SHALL BE MAINTAINED USING STANDARD CONSTRUCTION DRAWING MT-97.10. AT THE CONCLUSION OF THE WORK DAY, ANY OPEN TRENCH SHALL BE PLATED OR BACKFILLED WITH GRAVEL TO THE PAVEMENT SURFACE.

PHASE B SHALL CONSIST OF RECONSTRUCTING THE WESTBOUND LANE OF EUCLID BEACH BLVD. WITH WESTBOUND TRAFFIC BEING MAINTAINED IN THE EXISTING EASTBOUND LANE AND EASTBOUND TRAFFIC BEING MAINTAINED ON THE TEMPORARY PAVEMENT SURFACE.

PHASE C SHALL CONSIST OF RECONSTRUCTING THE EASTBOUND LANE OF EUCLID BEACH BLVD. WITH WESTBOUND TRAFFIC BEING MAINTAINED ON THE NEW WESTBOUND PAVEMENT AND EASTBOUND PAVEMENT BEING MAINTAINED ON THE TEMPORARY PAVEMENT SURFACE.

STAGE 3:

STAGE 3:

PHASE A SHALL CONSIST OF RECONSTRUCTING THE SOUTHBOUND LANE OF E. 159TH ST. AT THE EUCLID BEACH INTERSECTION. TRAFFIC SHALL BE MAINTAINED USING STANDARD CONSTRUCTION DRAWING MT-97.10.

DURING THIS PHASE THE CONTRACTOR SHALL ALSO REPLACE THE PAVEMENT AT E. 159TH ST. AND LAKESHORE BLVD. AS SHOWN ON SHEET 20. THIS AREA SHALL BE BARRELED OFF AT THE END OF THE WORKDAY.

PHASE B SHALL CONSIST OF RECONSTRUCTING THE NORTHBOUND LANE OF E. 159TH ST. AT THE EUCLID BEACH INTERSECTION. TRAFFIC SHALL BE MAINTAINED USING STANDARD CONSTRUCTION DRAWING MT-97.10.

FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL, AS OUTLINED IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE OMTCD, THE ROADWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE ROADWAY IN THE VICINITY OF THE WORK AREA IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

HOLIDAY TRAFFIC LIMITATION

NO WORK SHALL BE PERFORMED, AND ALL EXISTING LANES WHICH ARE NOT INSIDE A DESIGNATED WORK ZONE SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- NEW YEARS DAY (JANUARY 1)
- MARTIN LUTHER KING DAY (THIRD MONDAY IN JANUARY)
- EASTER SUNDAY (DATE VARIES)
- MEMORIAL DAY (LAST MONDAY IN MAY)
- INDEPENDENCE DAY (JULY 4)
- LABOR DAY (FIRST MONDAY IN SEPTEMBER)
- THANKSGIVING DAY (FOURTH THURSDAY IN NOVEMBER)
- CHRISTMAS DAY (DECEMBER 25)

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

CONTRACTOR'S VEHICLES AND EQUIPMENT

ALL VEHICLES AND EQUIPMENT BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S WORKERS MUST BE PARKED IN ACCORDANCE WITH CITY REGULATIONS, VEHICLES AND EQUIPMENT MAY NOT BE PARKED IN PRIVATE PARKING LOTS OR OTHER PRIVATE PROPERTY UNLESS WRITTEN APPROVAL OF THE OWNER AND THE ENGINEER HAS BEEN GRANTED. THE CONTRACTOR OR CONTRACTOR'S WORKERS MAY NOT PARK VEHICLES OR EQUIPMENT OR STORE MATERIALS WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD; NOR IN MANNER WHICH OBSTRUCTS SIGNS, BARRIERS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES OR INTERFERES WITH ACCESS TO ABUTTING PROPERTIES.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC:

614 WORK ZONE EDGE LINE, CLASS 1, 642 PAINT, YELLOW	X.XX MILE
614 WORK ZONE EDGE LINE, CLASS 1, 642 PAINT, WHITE	X.XX MILE
614 WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	XXX FT.
614 WORK ZONE STOP LINE, CLASS I, 642 PAINT	XXX FT.

FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL, AS OUTLINED IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE OMTCD, THE ROADWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE ROADWAY IN THE VICINITY OF THE WORK AREA IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

IN ADDITION TO THE APPLICABLE REQUIREMENTS OF ITEM 615, THIS ITEM INCLUDES ANY REQUIRED PREPARATORY WORK, MAINTENANCE AND THE SUBSEQUENT REMOVAL OF THE ITEMS LISTED IN THE "ESTIMATED QUANTITIES FOR MAINTAINING TRAFFIC" PLAN NOTE. THIS SHALL INCLUDE SAW CUTTING THE EXISTING PAVEMENT EDGE PER 255.03 WHEN INSTALLING ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B. PAYMENT FOR ALL NECESSARY LABOR, EQUIPMENT AND ADDITIONAL MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT BID FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B.

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MAINTENANCE OF TRAFFIC NOTES

CUY-E. 159TH ST.

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LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) MAY BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN 40 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

CONSTRUCTION WARNING SIGNS

IMMEDIATELY PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION WARNING SIGNS SHOWN ON SHEETS 29-58.

AS A MINIMUM, G20-1 SIGNS FACING TRAFFIC ENTERING THE PROJECT, AND G20-2 SIGNS FACING TRAFFIC LEAVING THE PROJECT, SHALL BE PLACED AS SHOWN IN THE MANUAL. ADDITIONAL G20-1 SIGNS SHALL BE PLACED AFTER EACH MAJOR INTERSECTION, IN BOTH DIRECTIONS, AND AFTER EACH SUSPENSION AND RESUMPTION OF WORK.

ADDITIONALLY, A W20-1 SIGN SHALL BE PLACED ON EACH INTERSECTING STREET A MINIMUM OF 200 FEET IN ADVANCE OF THE PROJECT, AND ON THE APPROACHES TO THE PROJECT A MINIMUM OF 500 FEET IN ADVANCE OF THE WORK LIMITS. G20-2 SIGNS SHALL ALSO BE INSTALLED ON EACH MAJOR INTERSECTING STREET, FACING TRAFFIC LEAVING THE PROJECT, A MINIMUM OF 200 FEET FROM THE PROJECT.

THE TRAFFIC CONTROL DEVICES SHOWN ON MT-97.11, MT-95.31 AND MT-95.32 SHALL BE IN ADDITION TO THOSE INDICATED ABOVE. IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ALSO INSTALL W8-11 "UNEVEN LANES", W8-7 "LOOSE GRAVEL," AND/OR W21-2 "FRESH OIL/TAR" SIGNS.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS.

INSTALLATION OF WORK ZONE PAVEMENT MARKINGS AND SIGNS

ALL WORK ZONE PAVEMENT MARKINGS AND SIGNS REQUIRED FOR A PARTICULAR LANE CLOSURE OR TRAFFIC PATTERN SHALL BE INSTALLED ON A SINGLE WORK DAY, AND THE CORRESPONDING TRAFFIC PATTERN, AS DETAILED ON THE PLANS, SHALL BE IMPLEMENTED IMMEDIATELY. IN ADDITION, THE REQUIREMENTS OF 614.11(G) SHALL APPLY. THE CONTRACTOR SHALL BE RESPONSIBLE, WITH THE ASSISTANCE OF THE ENGINEER AND RECORDS OF THE DIVISION OF TRAFFIC ENGINEERING, FOR THE ENTIRE LAYOUT AND LOCATIONS OF THE REQUIRED PAVEMENT MARKINGS.

REPLACEMENT SIGNS

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

DRIVEWAY ACCESS

THIS WORK SHALL BE IN IN CONJUNCTION WITH ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN AND ALL COSTS INCURRED FOR THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM BID FOR MAINTAINING TRAFFIC - NO ADDITIONAL PAYMENTS WILL BE MADE. ACCESS TO ALL PROPERTY OWNERS, INCLUDING RESIDENCES AND BUSINESSES, SHALL BE MADE AVAILABLE AT ALL TIMES DURING CONSTRUCTION.

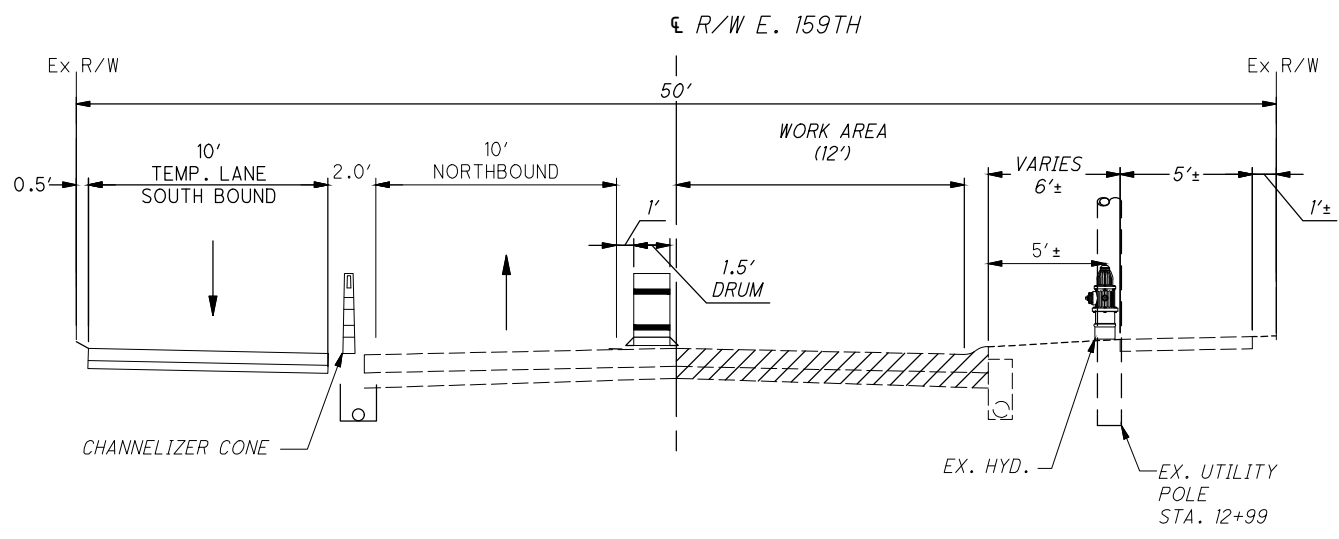
THE CONTRACTOR SHALL MAKE AVAILABLE DURING CONSTRUCTION, STEEL PLATES, BRIDGES OR OTHER MEANS APPROVED BY THE ENGINEER TO BRIDGE ACROSS THE HALF ROADWAY CONSTRUCTION, TO PROVIDE FULL TIME (TWENTY-FOUR (24) HOURS, SEVEN(7) DAYS A WEEK) ACCESS TO DRIVEWAYS THAT REQUIRE IT. ALL DRIVEWAY CLOSURES AND/OR APRON WORK SHALL BR CONSTRUCTED IN ALTERNATING INTERVALS IN ORDER TO ELIMINATE ABUTTING PROPERTIES HAVING BOTH OF THEIR DRIVEWAYS CLOSED.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, AT THE PRECONSTRUCTION MEETING, A PROPOSAL FOR PROVIDING ACCESS TO THE DRIVEWAYS. FOR ESTIMATING PURPOSES, THE NUMBER OF DRIVE APRONS TO BE MAINTAINED SHOULD BE THE NUMBER OF DRIVEWAYS IN EACH CONSTRUCTION PHASE.

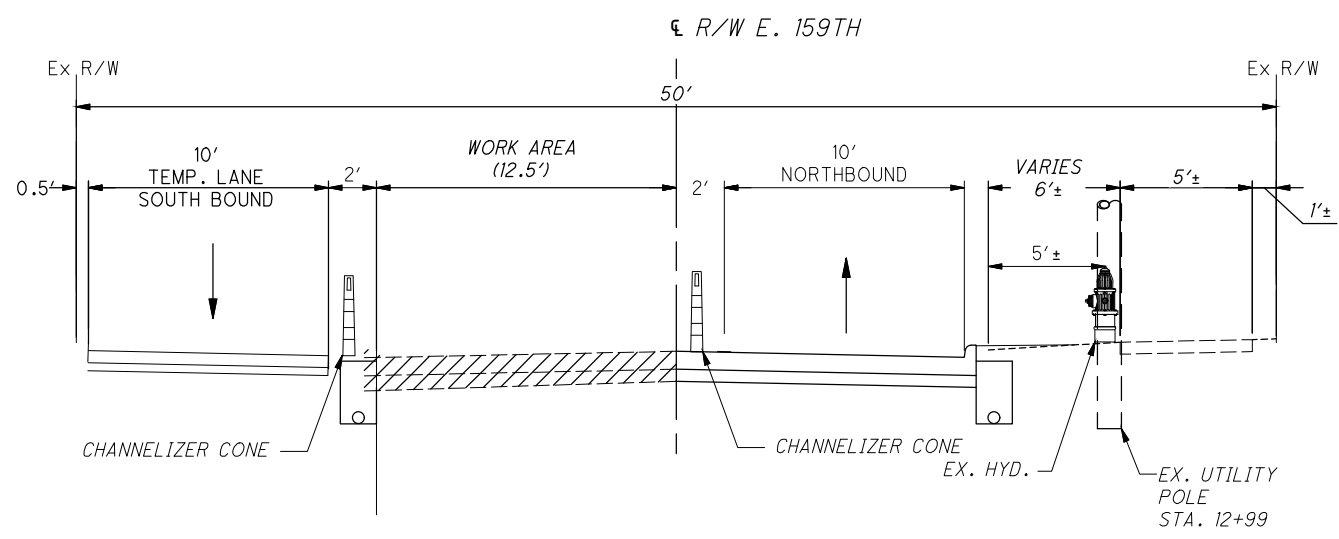
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MAINTENANCE OF TRAFFIC NOTES

CUY-FRANKLIN BLVD.



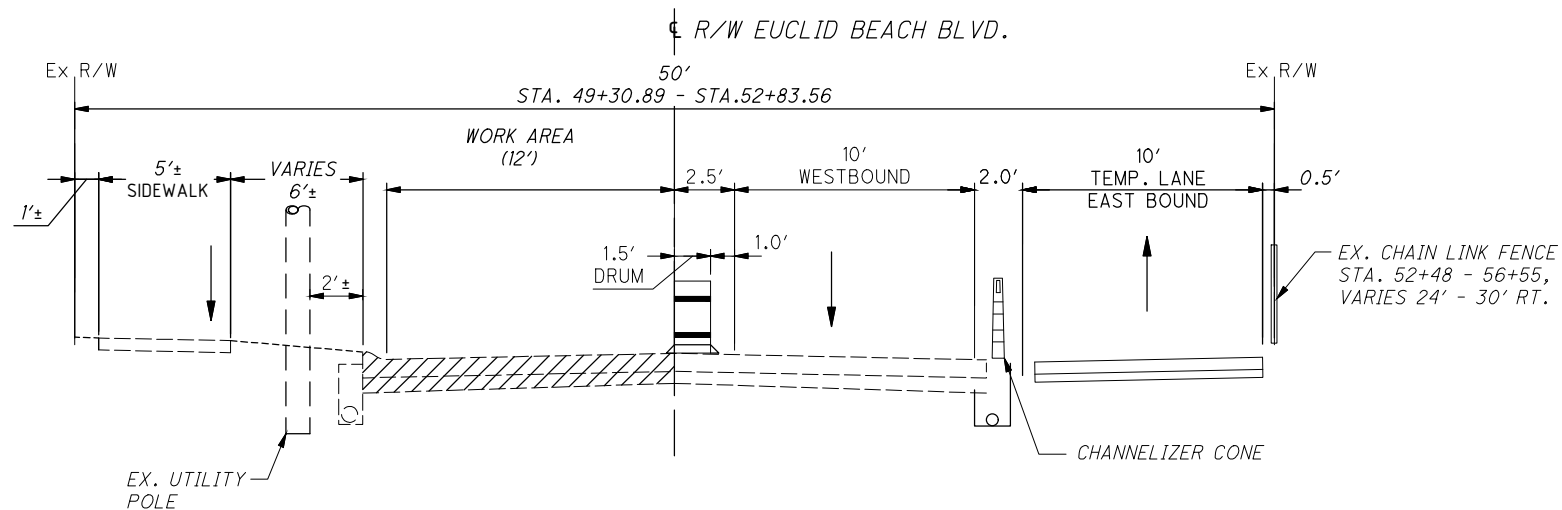
MAINTENANCE OF TRAFFIC – STAGE 1 (E. 159TH ST.) PHASE B



MAINTENANCE OF TRAFFIC – STAGE 1 (E. 159TH ST.) PHASE C

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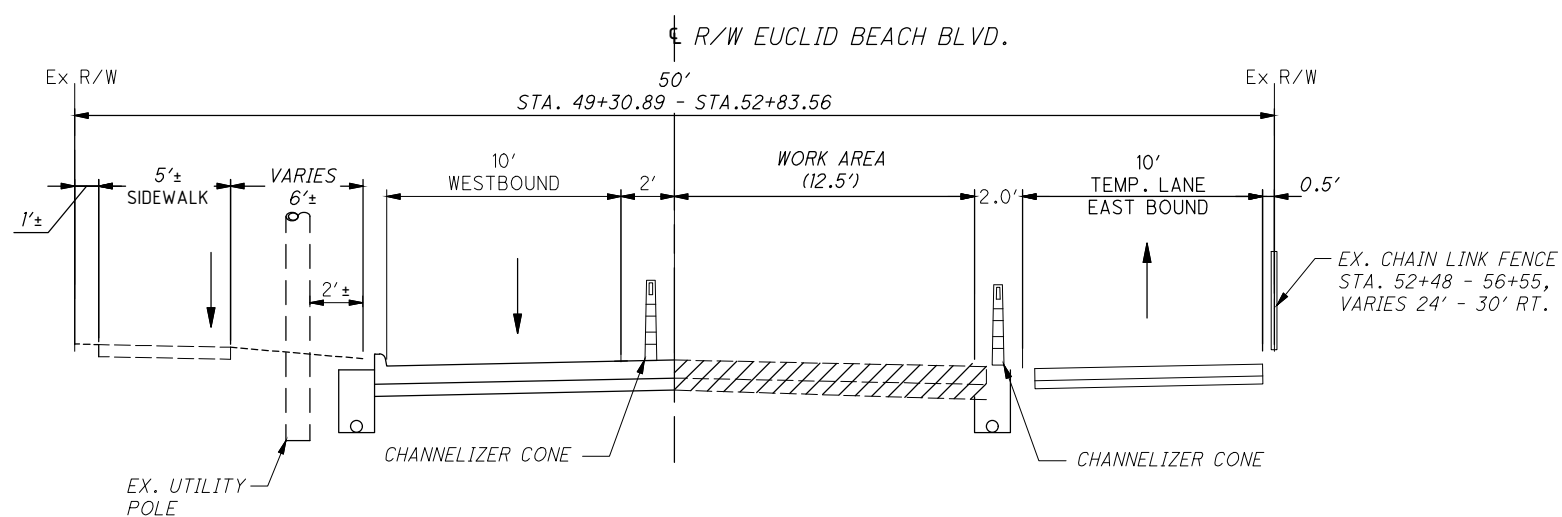
EAST 159TH STAGE 1 PHASE A: THIS PHASE SHALL CONSIST OF THE REMOVAL OF THE CURB AND UNDER DRAIN ON THE WEST SIDE OF THE EXISTING PAVEMENT. CONTRACTOR SHALL BE RESPONSIBILITY FOR MAINTAINING TRAFFIC BY USE OF FLAGGERS DURING THIS OPERATION. PAVEMENT SHALL BE BACKFILLED AND OPENED TO TWO-WAY TRAFFIC AT THE END OF EACH DAY. UPON REMOVAL OF THE EXISTING CURB AND UNDER DRAIN THE CONTRACTOR SHALL INSTALL THE NEW UNDER DRAIN AND REMOVE THE EXISTING WALK IN ORDER TO INSTALL A TEMPORARY SOUTHBOUND LANE.



MAINTENANCE OF TRAFFIC - STAGE 1 (EUCLID BEACH) PHASE B

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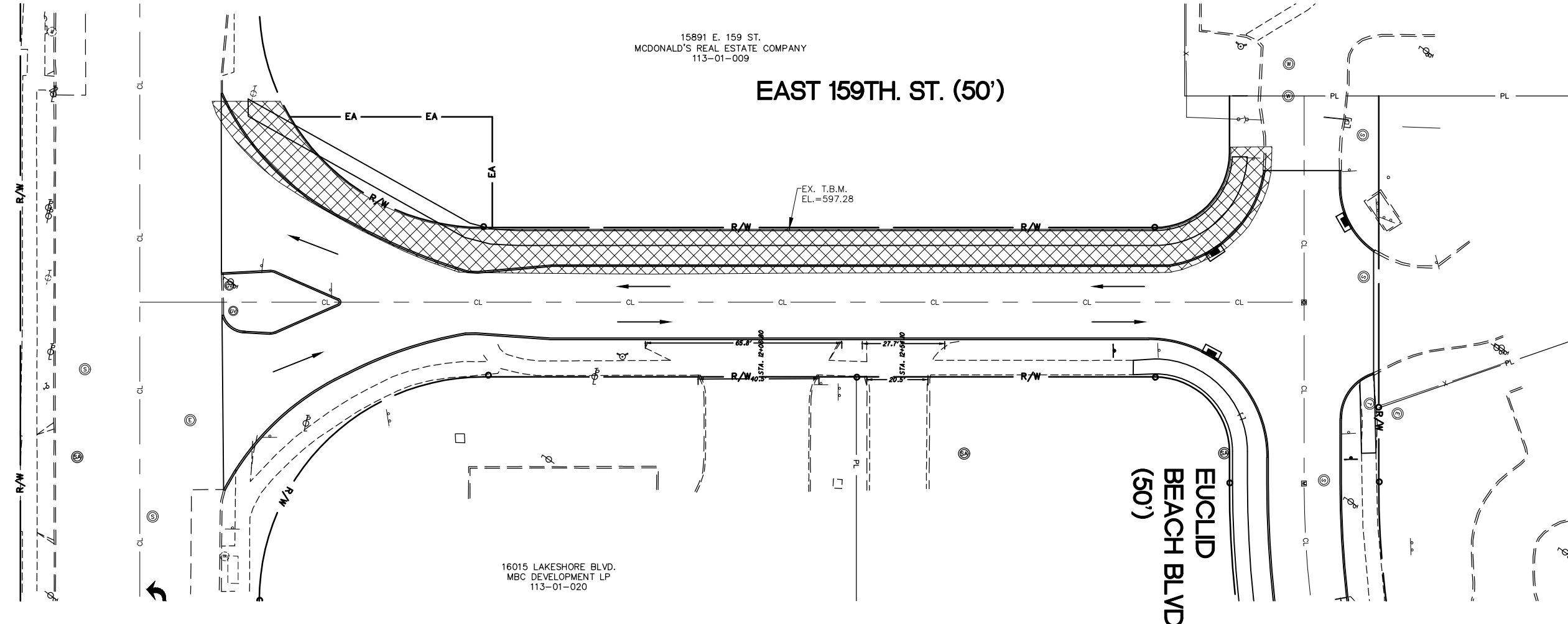
- EUCLID BEACH BLVD. STAGE 2 PHASE A: THIS PHASE SHALL CONSIST OF THE REMOVAL OF THE CURB AND UNDER DRAIN ON THE SOUTH SIDE OF THE EXISTING PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC BY USE OF FLAGGERS DURING THIS OPERATION. PAVEMENT SHALL BE BACKFILLED AND OPENED TO TWO-WAY TRAFFIC AT THE END OF EACH DAY. UPON REMOVAL OF THE EXISTING CURB AND UNDER DRAIN THE CONTRACTOR SHALL INSTALL THE NEW UNDER DRAIN AND REMOVE THE EXISTING WALK IN ORDER TO INSTALL A TEMPORARY WESTBOUND LANE.
- EX. HYDRANT AT STA. 54+03.42, 20.70' RT. TO BE TEMPORARILY REMOVED.
- EX. CHAIN LINK FENCE, STA. 52+48 - STA. 56+55, TO BE REMOVED, STORED AND RE-ERECTED, COST TO BE INCLUDED WITH ITEM 614: MAINTAINING TRAFFIC, AS PER PLAN.
- EX. WALK, STA. 50+19 (RT.) - STA. 53+77 (RT.), TO BE REMOVED AND REPLACED.





MAINTENANCE OF TRAFFIC - STAGE 1 (EUCLID BEACH) PHASE C

LAKE SHORE BLVD. (80')

15900 LAKE SHORE
BLVD.
CASIM PROPERTIES LLC
113-13-029



LEGEND

-  **WORK AREA**
-  **ITEM 615: PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B**

NOTES:

CONTRACTOR TO DEMO EX. CURB & WALK ON THE WEST SIDE OF THE ROAD, INSTALL NEW UNDER DRAIN, AND CONSTRUCT TEMPORARY ROADWAY IN THE AREA OF THE EXISTING SIDEWALK.

CONTRACTOR TO MAINTAIN TWO-WAY TRAFFIC BY USE OF FLAGGERS THROUGHOUT THE WORK DAY.

MAINTENANCE OF TRAFFIC STAGE 1 - PHASE A



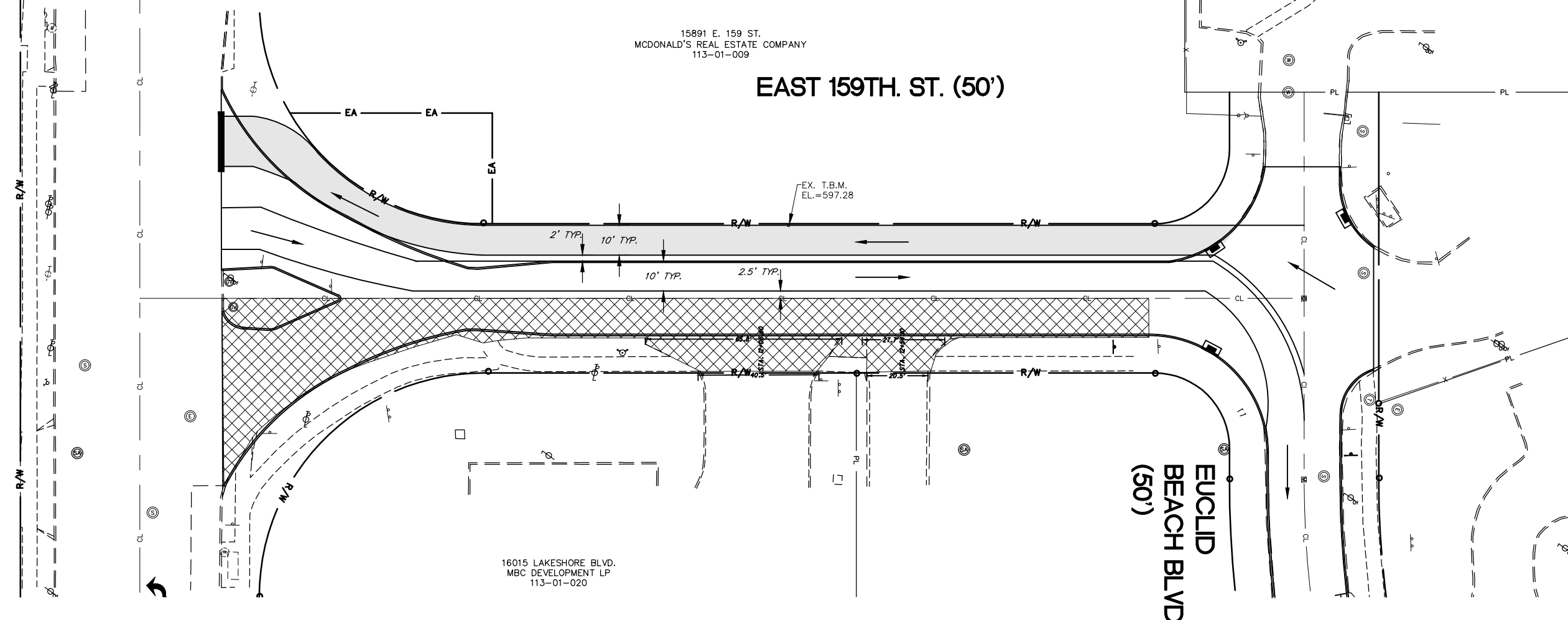
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E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 1 - PHASE A

CLE-E. 159TH ST.

LAKE SHORE BLVD. (80')

15900 LAKE SHORE
BLVD.
CASIM PROPERTIES LLC
113-13-029



16015 LAKESHORE BLVD.
MBC DEVELOPMENT LP
113-01-020

15891 E. 159 ST.
MCDONALD'S REAL ESTATE COMPANY
113-01-009

EAST 159TH ST. (50')

EUCLID
BEACH BLVD.
(50')

MAINTENANCE OF TRAFFIC STAGE 1 - PHASE B

LEGEND



WORK AREA



ITEM 615: PAVEMENT FOR MAINTAINING
TRAFFIC, CLASS B



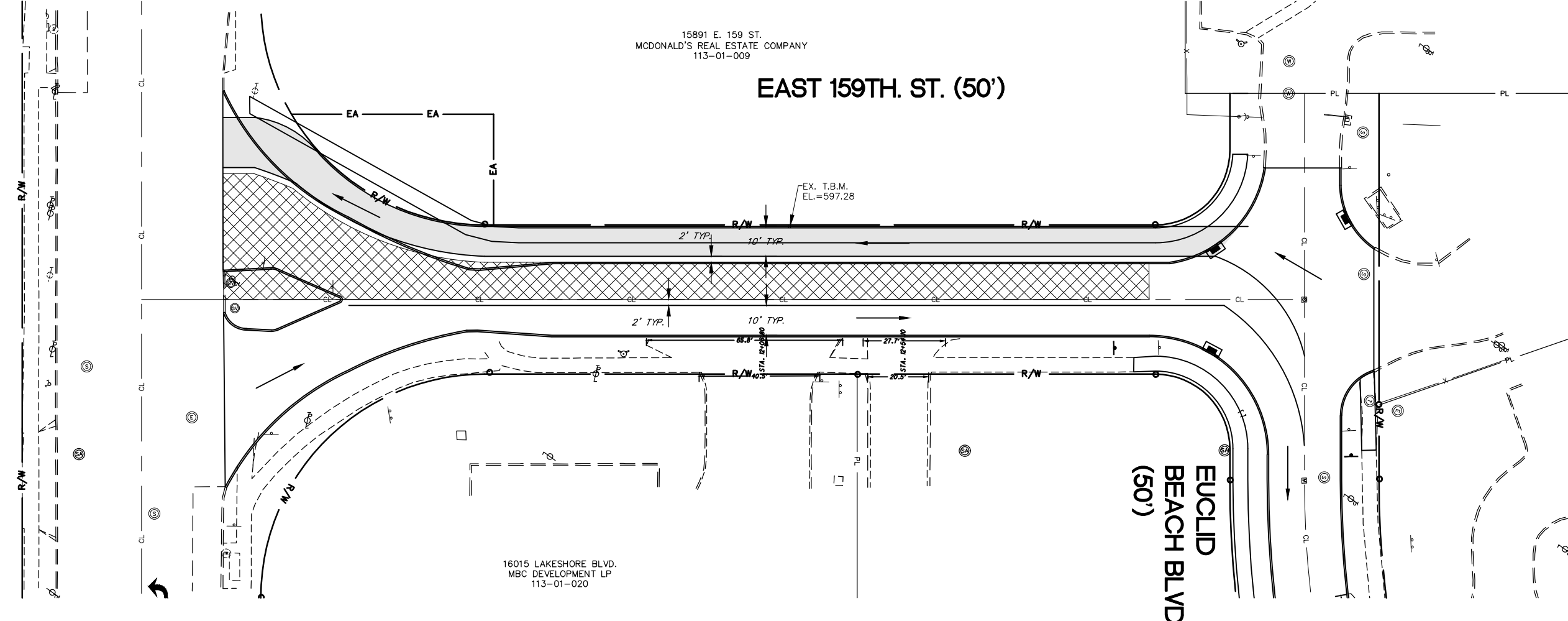
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E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 1 - PHASE B

CLE-E. 159TH ST.

LAKE SHORE BLVD. (80')



15900 LAKE SHORE
BLVD.
CASIM PROPERTIES LLC
113-13-029



MAINTENANCE OF TRAFFIC STAGE 1 - PHASE C

LEGEND



-  **WORK AREA**
-  **ITEM 615: PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B**

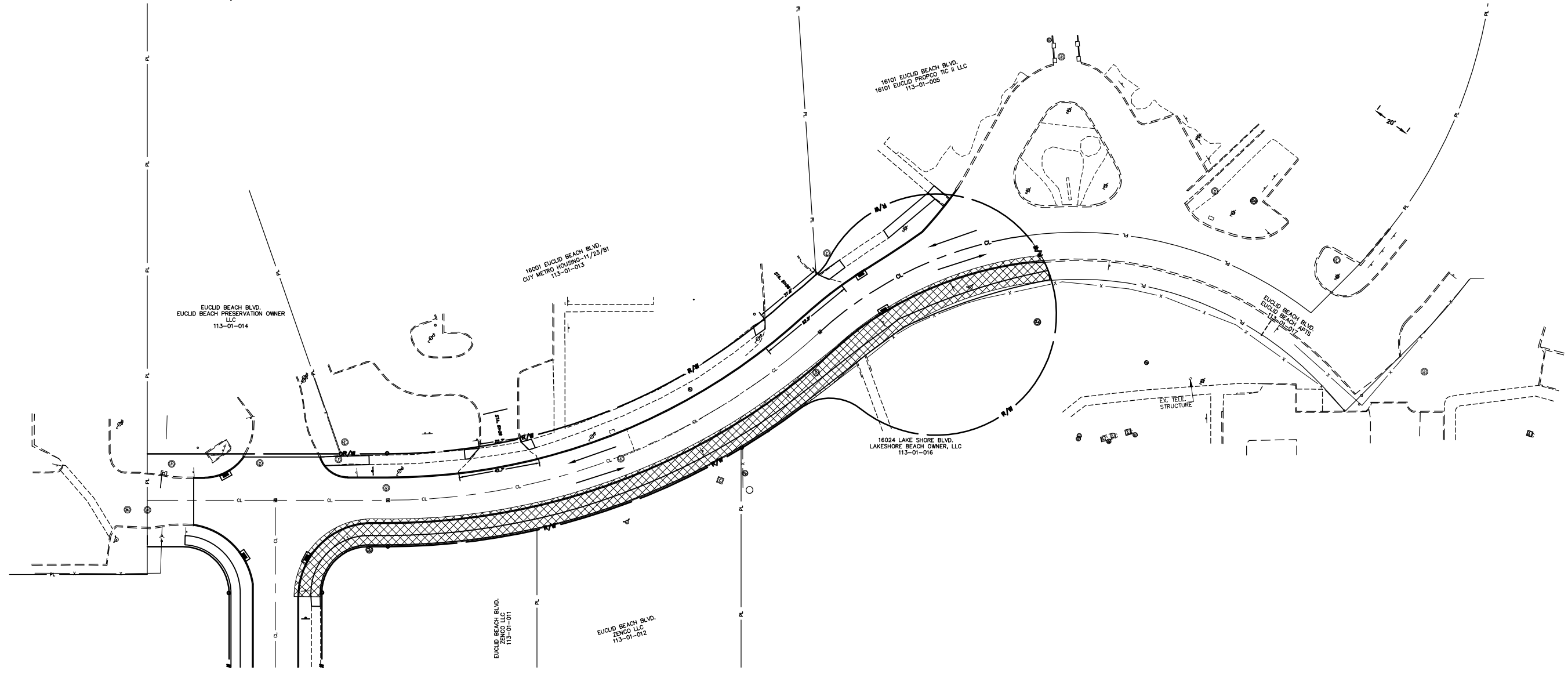
	
	HORIZONTAL SCALE IN FEET
CALCULATED	CSK
CHECKED	AWD

E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 1 - PHASE C

CLE-E. 159TH ST.

LEGEND

-  WORK AREA
-  ITEM 615: PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



MAINTENANCE OF TRAFFIC STAGE 2 - PHASE A

NOTES:

CONTRACTOR TO REMOVE, STORE AND REPLACE ALL EXISTING SIGNS ON THE SOUTH SIDE OF THE ROADWAY TO ALLOW FOR THE INSTALLATION OF THE TEMPORARY PAVEMENT. COST TO BE INCLUDED WITH ITEM 614: MAINTAINING TRAFFIC, AS PER PLAN.





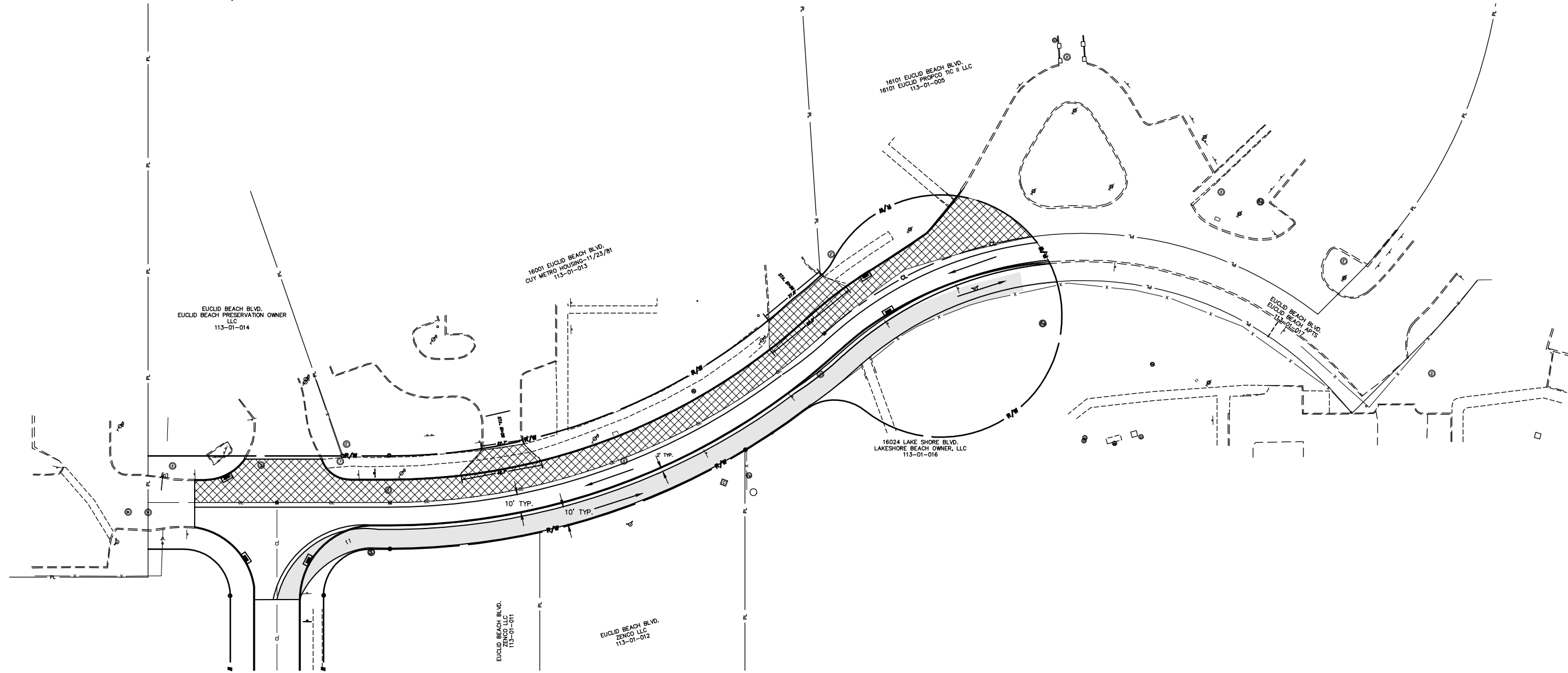
CALCULATED
CSK
CHECKED
AWD

E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 2 - PHASE A

CLE-E. 159TH ST.

LEGEND

-  WORK AREA
-  ITEM 615: PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



MAINTENANCE OF TRAFFIC STAGE 2 - PHASE B

NOTES:

CONTRACTOR TO REMOVE, STORE AND REPLACE ALL EXISTING SIGNS ON THE SOUTH SIDE OF THE ROADWAY TO ALLOW FOR THE INSTALLATION OF THE TEMPORARY PAVEMENT. COST TO BE INCLUDED WITH ITEM 614: MAINTAINING TRAFFIC, AS PER PLAN.

RAMPS ARE TO BE PROVIDED AT ALL DRIVE APRONS.





0 30 60
15
HORIZONTAL
SCALE IN FEET

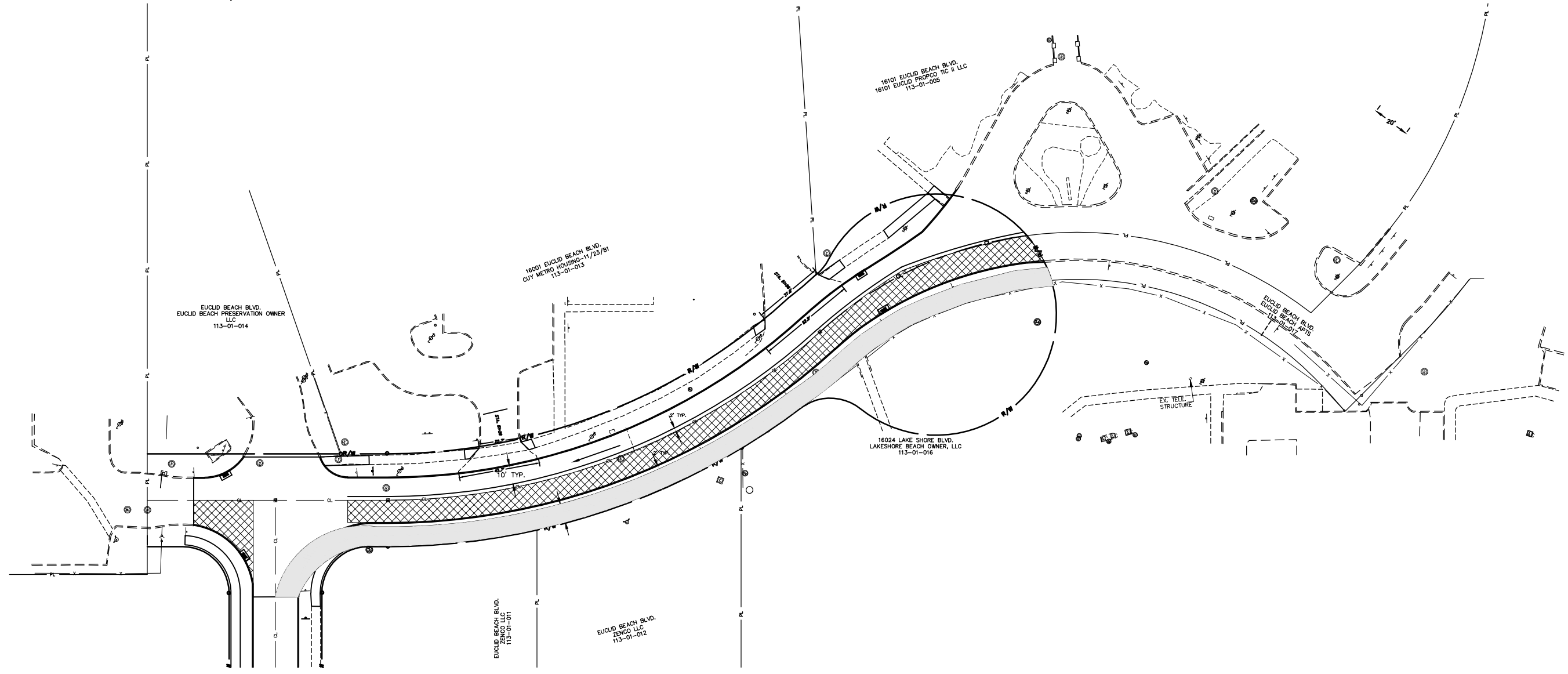
CALCULATED
CSK
CHECKED
AWD

E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 2 - PHASE B

CLE-E. 159TH ST.

LEGEND

-  WORK AREA
-  ITEM 615: PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



MAINTENANCE OF TRAFFIC STAGE 2 - PHASE C

NOTES:

CONTRACTOR TO REMOVE, STORE AND REPLACE ALL EXISTING SIGNS ON THE SOUTH SIDE OF THE ROADWAY TO ALLOW FOR THE INSTALLATION OF THE TEMPORARY PAVEMENT. COST TO BE INCLUDED WITH ITEM 614: MAINTAINING TRAFFIC, AS PER PLAN.

RAMPS ARE TO BE PROVIDED AT ALL DRIVE APRONS.



CALCULATED	CSK
CHECKED	AWD



E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 2 - PHASE C

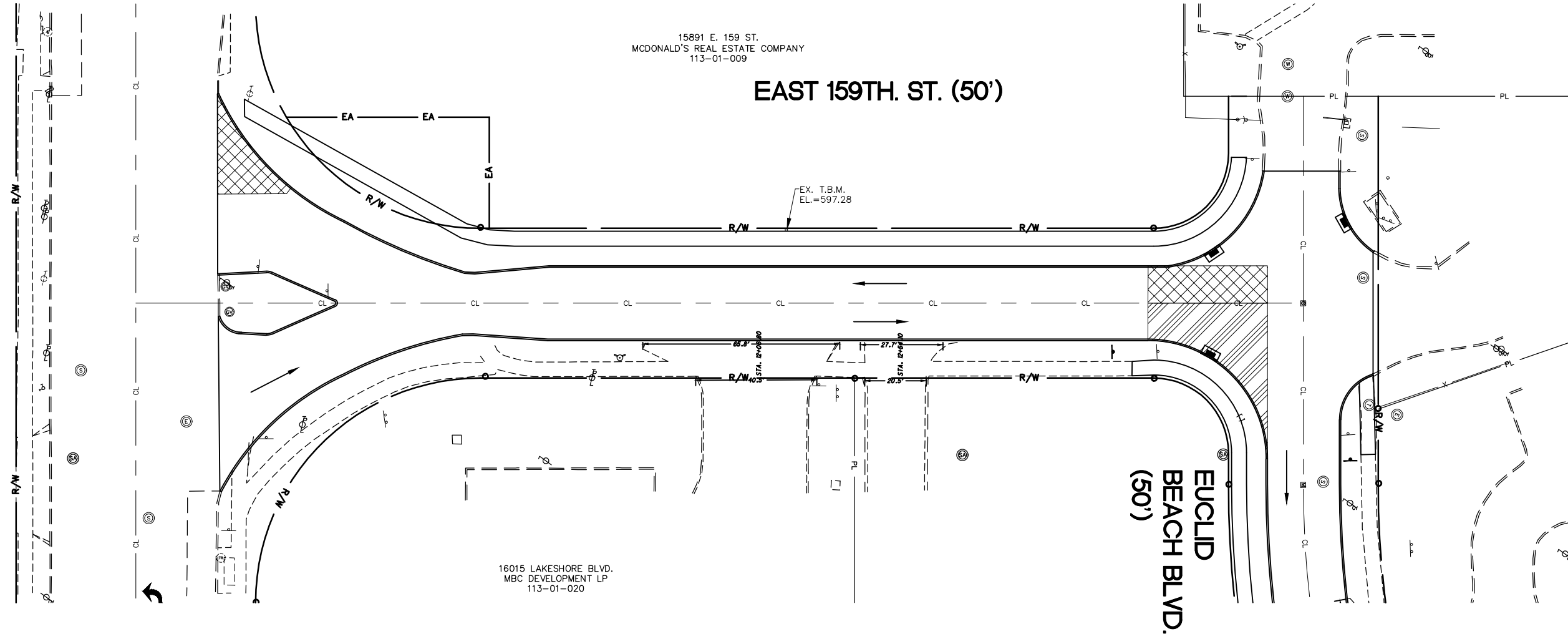
CLE-E. 159TH ST.

LAKE SHORE BLVD. (80')

15900 LAKE SHORE
BLVD.
CASIM PROPERTIES LLC
113-13-029

LEGEND

-  WORK AREA - PHASE A
-  WORK AREA - PHASE B



16015 LAKESHORE BLVD.
MBC DEVELOPMENT LP
113-01-020

15891 E. 159 ST.
MCDONALD'S REAL ESTATE COMPANY
113-01-009

EAST 159TH ST. (50')

**EUCLID
BEACH BLVD.
(50')**

MAINTENANCE OF TRAFFIC STAGE 3 - PHASE A & B

NOTES:
THE PAVEMENT WITHIN THE INTERSECTION OF
E. 159TH ST. AND EUCLID BEACH SHALL BE
POURED SEPARATELY, AS SHOWN.




CALCULATED CSK
CHECKED AWD

HORIZONTAL
SCALE IN FEET

E. 159TH & EUCLID BEACH RECONSTRUCTION
M.O.T. STAGE 1 - PHASE C

CLE-E. 159TH ST.

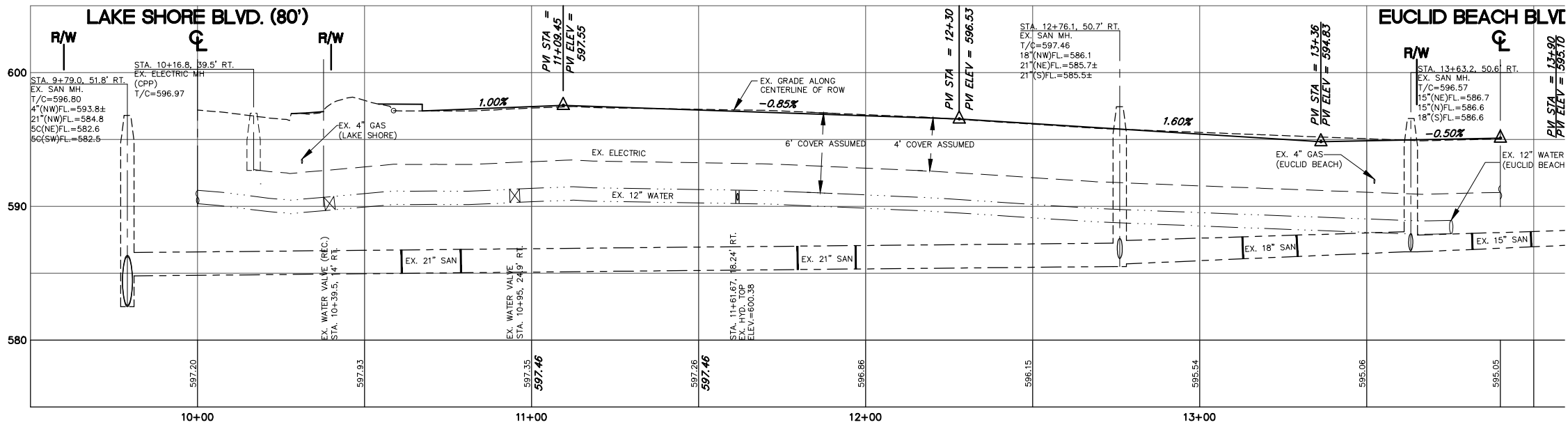
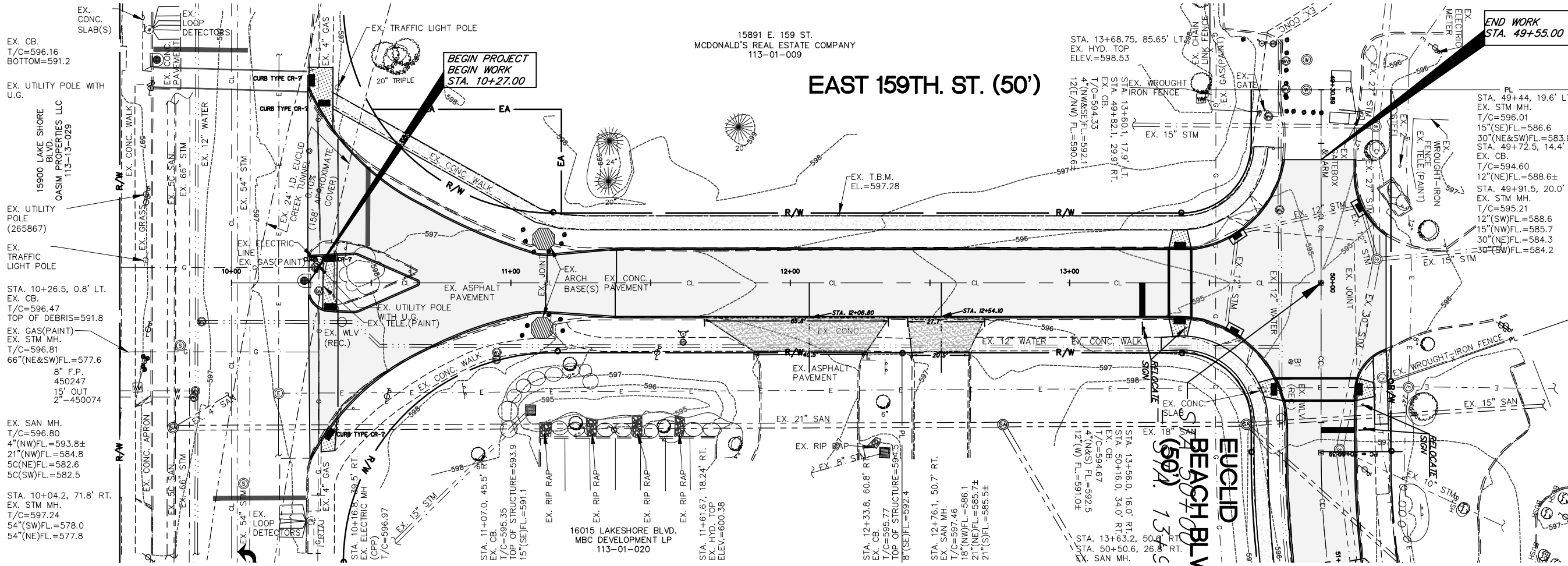
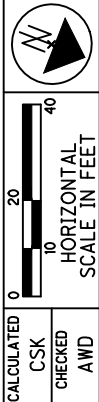
LAKE SHORE BLVD. (80')

-  PROPOSED SIDEWALK
-  ITEM 452 - PROPOSED CONCRETE PAVEMENT
-  PROPOSED CONCRETE DRIVE APRON

-  NEW PRECAST CATCH BASIN
-  PROPOSED CURB RAMP

NOTE:
PAVEMENT TO BE REPLACED AT THE NEAREST JOINT NEAR REPLACEMENT LIMITS.

BENCH MARK
TOP HYDRANT
STATION 11+61.67, 18.24' RT.
ELEV.=600.38

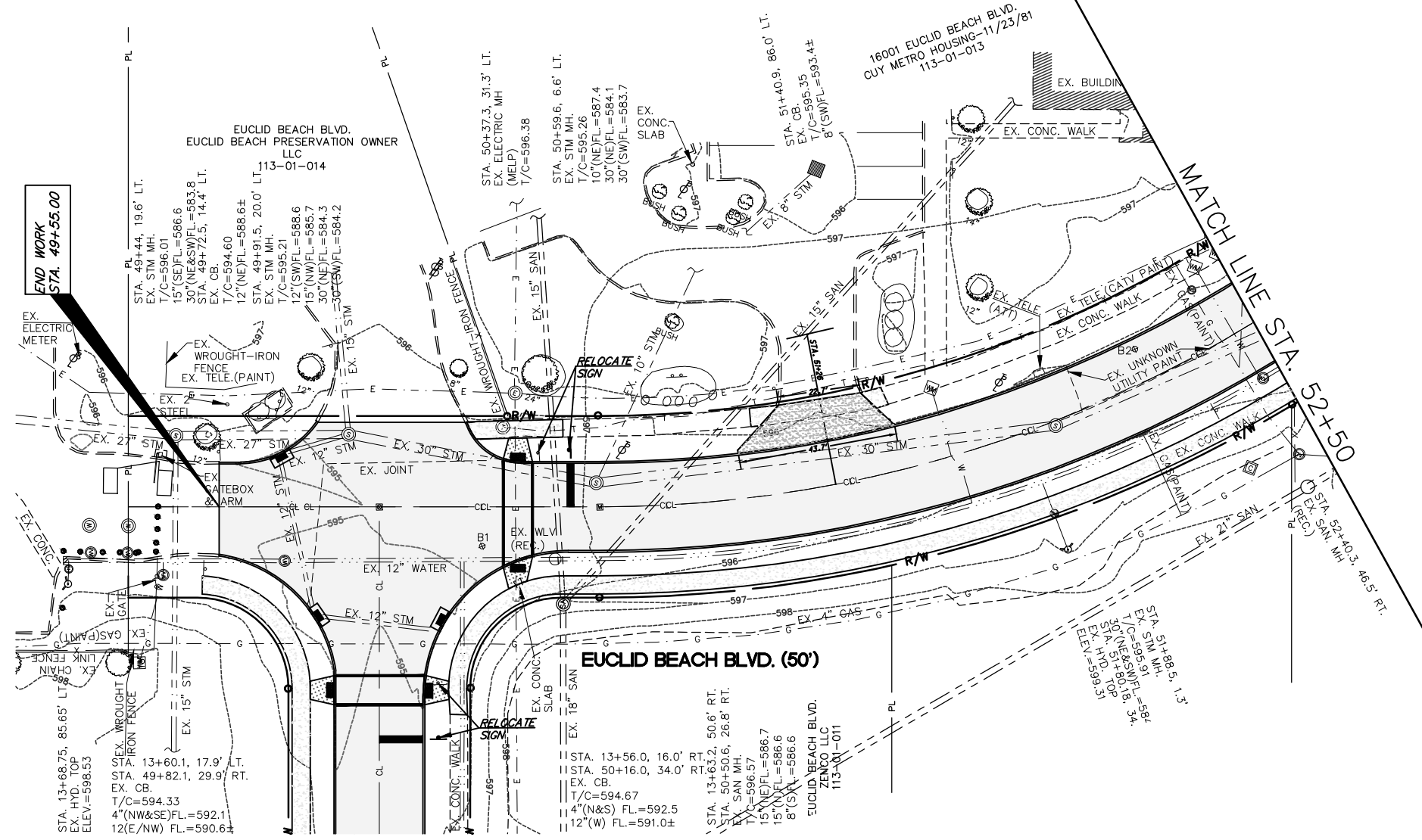
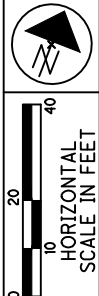


PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

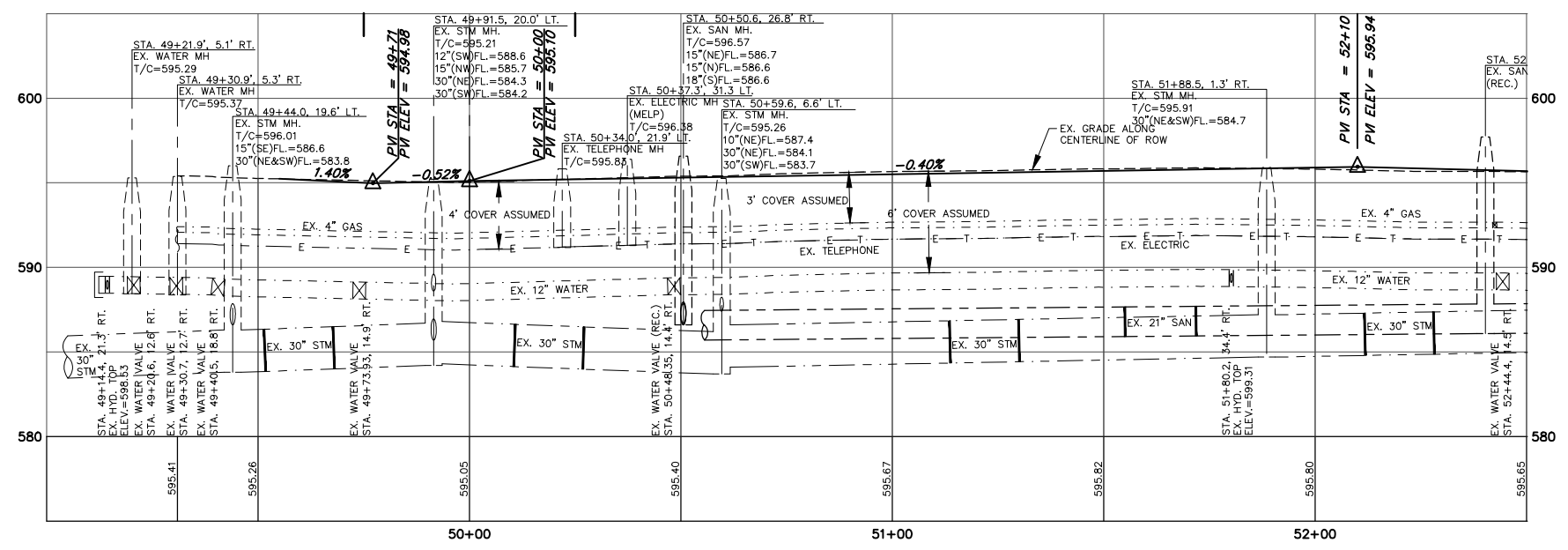
E. 159TH & EUCLID BEACH RECONSTRUCTION
PLAN STA. 10+00 TO STA. 13+00

CLE-E. 159TH ST.

BENCH MARK
 TOP HYDRANT
 STATION 11+61.67, 18.24' RT.
 ELEV.=600.38



- LEGEND**
- PROPOSED SIDEWALK
 - ITEM 452 - PROPOSED CONCRETE PAVEMENT
 - PROPOSED CONCRETE DRIVE APRON
 - NEW PRECAST CATCH BASIN
 - PROPOSED CURB RAMP
- NOTE:**
 PAVEMENT TO BE REPLACED AT THE NEAREST JOINT NEAR REPLACEMENT LIMITS.

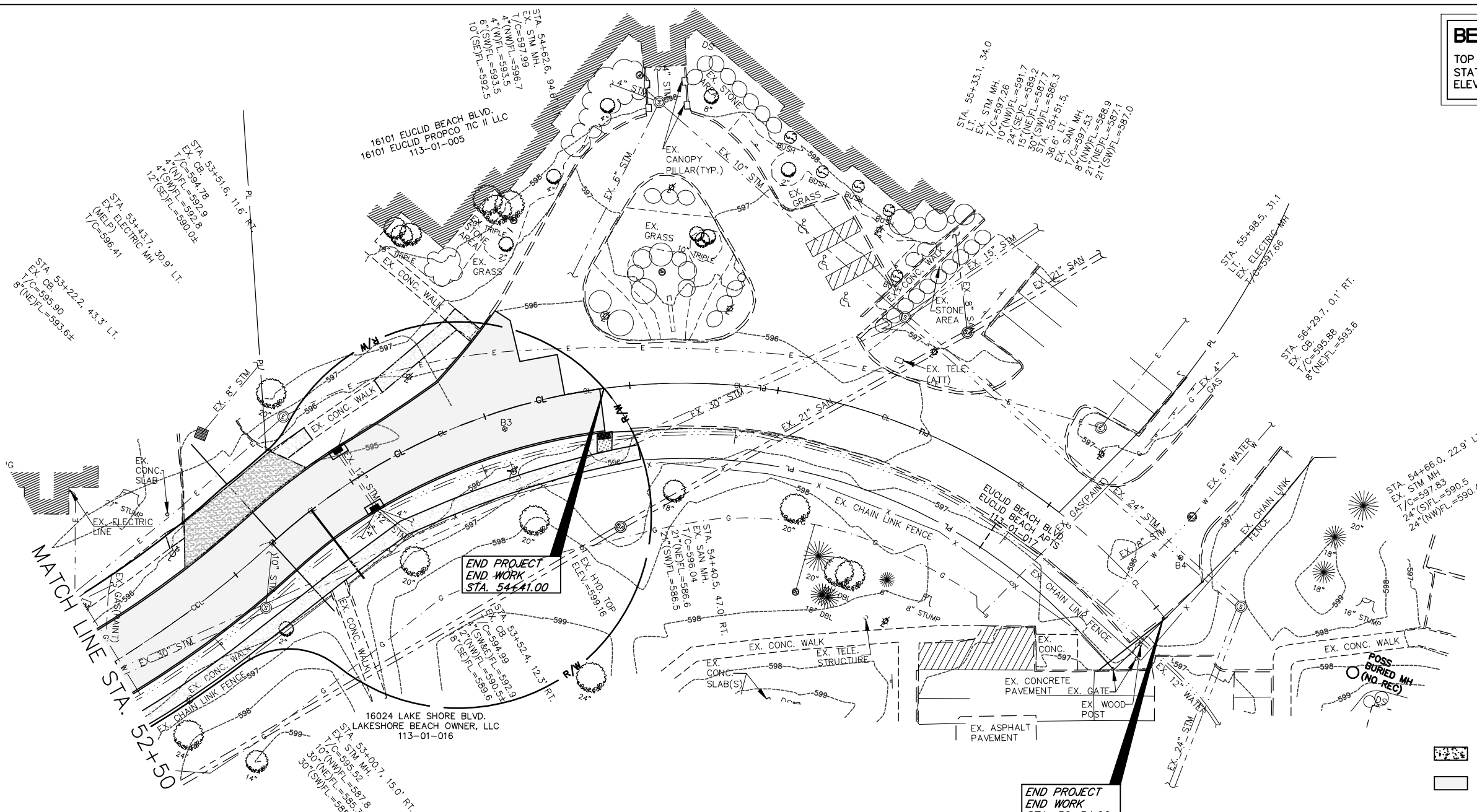


PROFILE SCALE
 HORIZ. 1" = 20'
 VERT. 1" = 5'

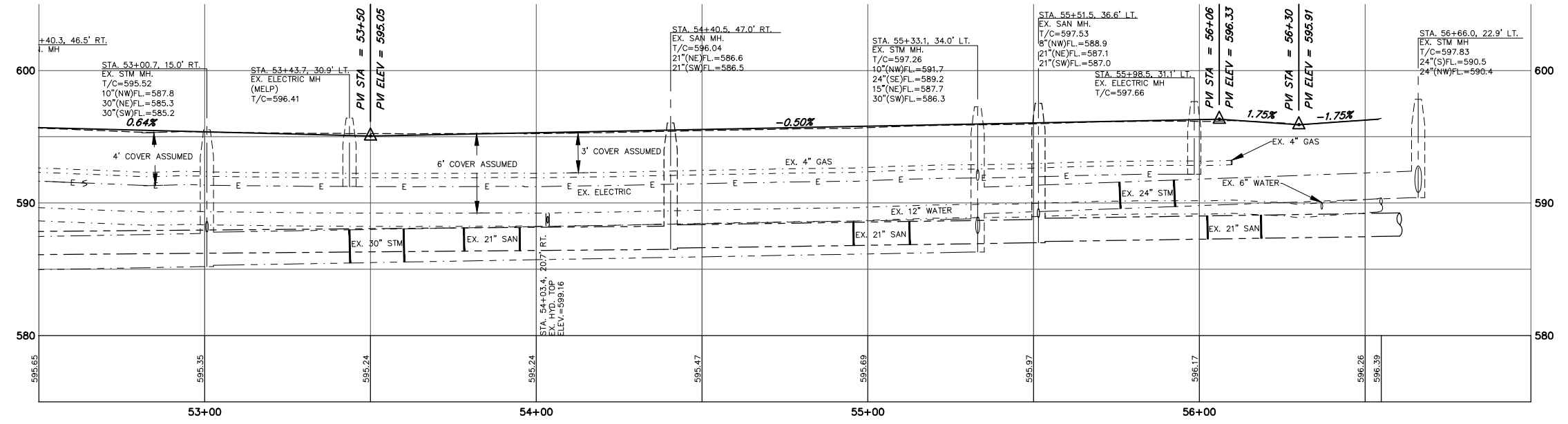
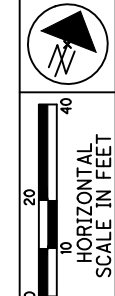
CALCULATED	CSK	CHECKED	AWD
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E. 159TH & EUCLID BEACH RECONSTRUCTION
 PLAN STA. 50+00 TO STA. 52+50

CLE-E. 159TH ST.



BENCH MARK
TOP HYDRANT
STATION 11+61.67, 18.24' RT.
ELEV.=600.38

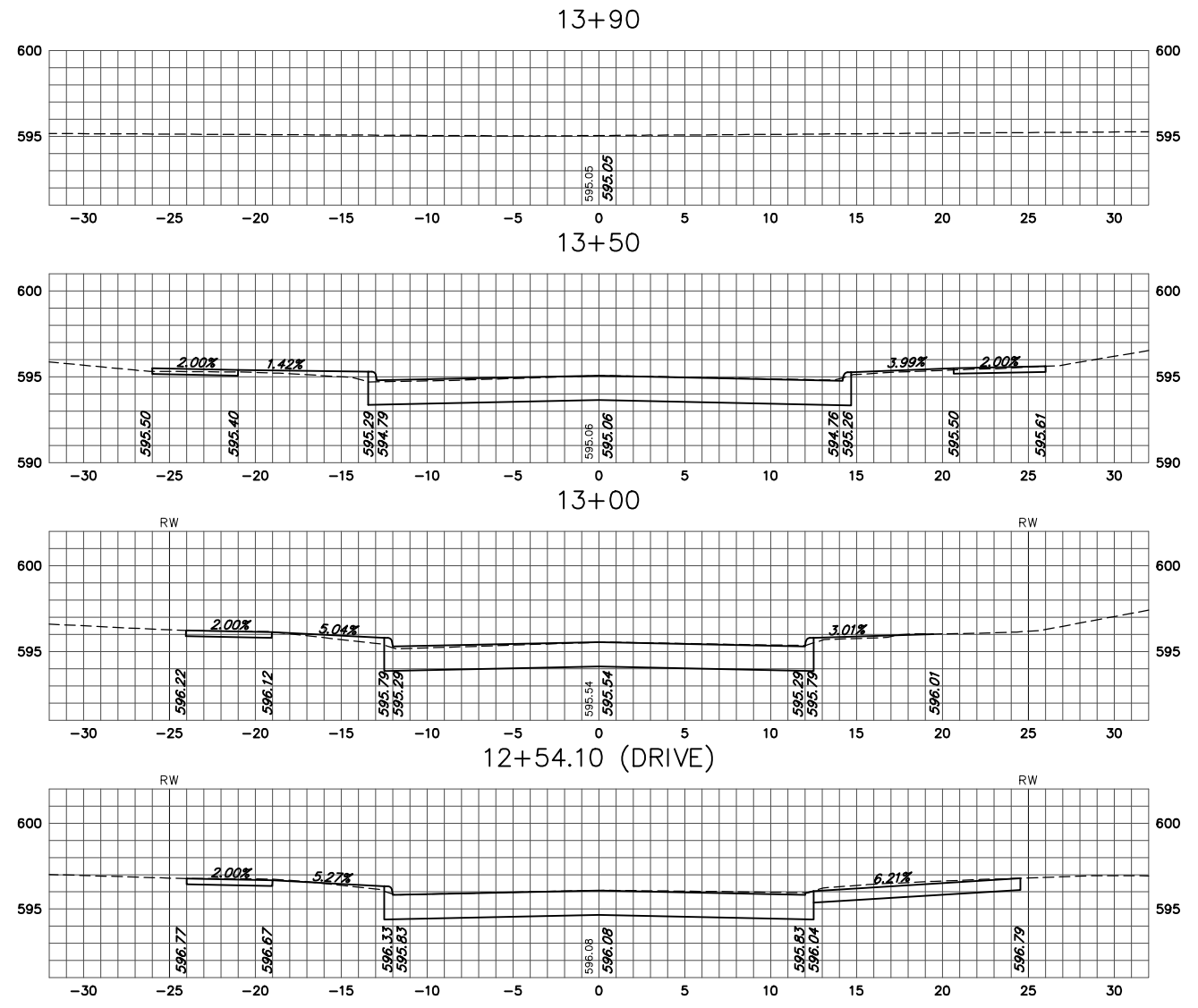
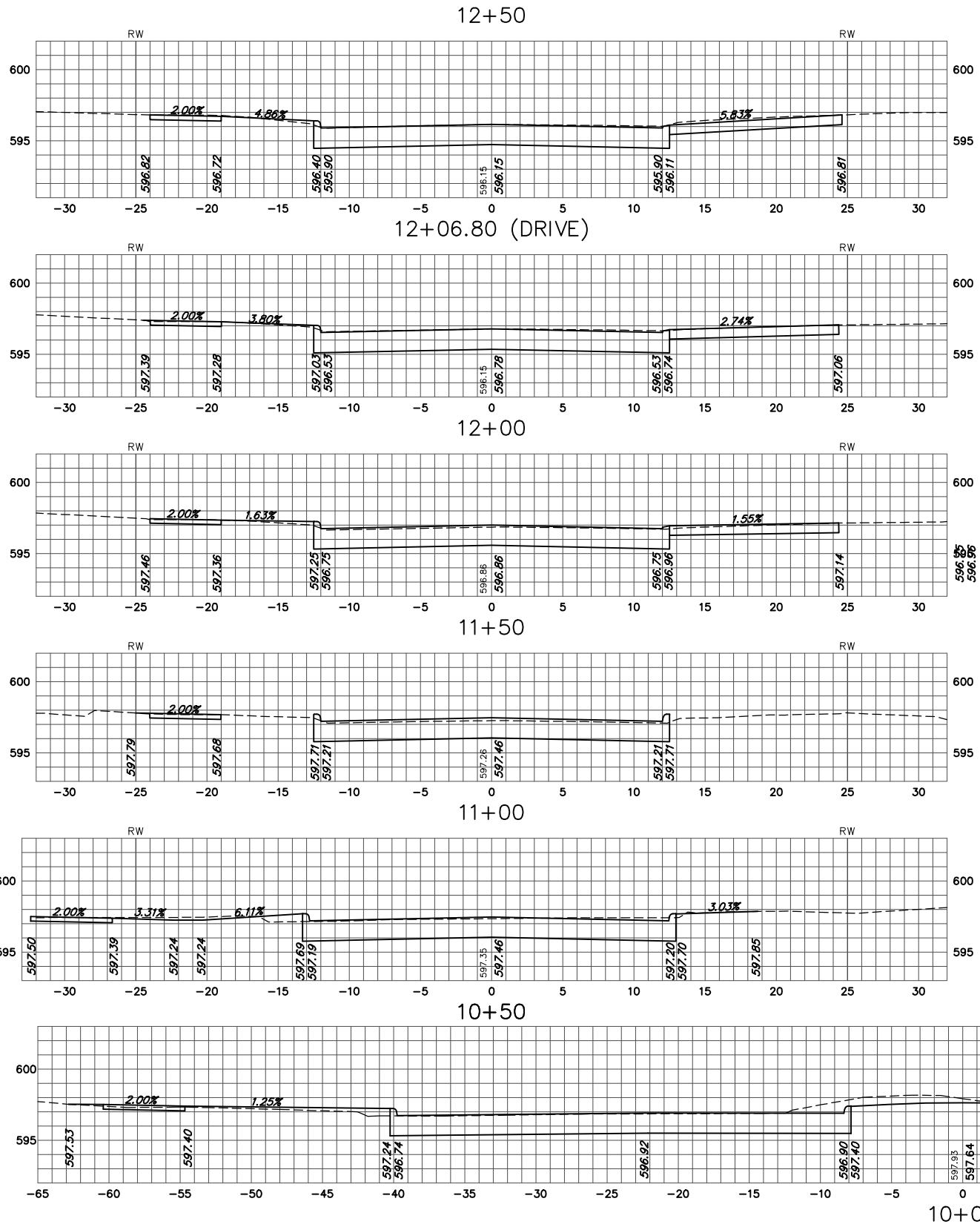


- LEGEND**
- PROPOSED SIDEWALK
 - ITEM 452 - PROPOSED CONCRETE PAVEMENT
 - PROPOSED CONCRETE DRIVE APRON
 - NEW PRECAST CATCH BASIN
 - PROPOSED CURB RAMP

NOTE:
PAVEMENT TO BE REPLACED AT THE NEAREST JOINT NEAR REPLACEMENT LIMITS.

E. 159TH & EUCLID BEACH RECONSTRUCTION
PLAN STA. 52+50 TO STA. 13+00
CLE-E. 159TH ST.

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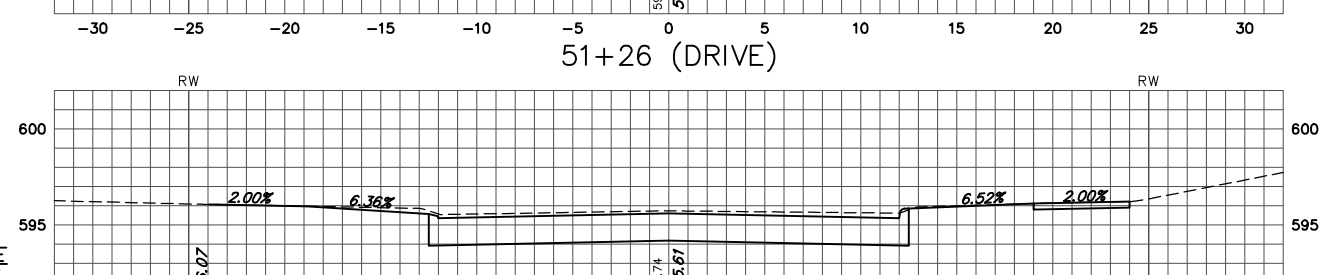
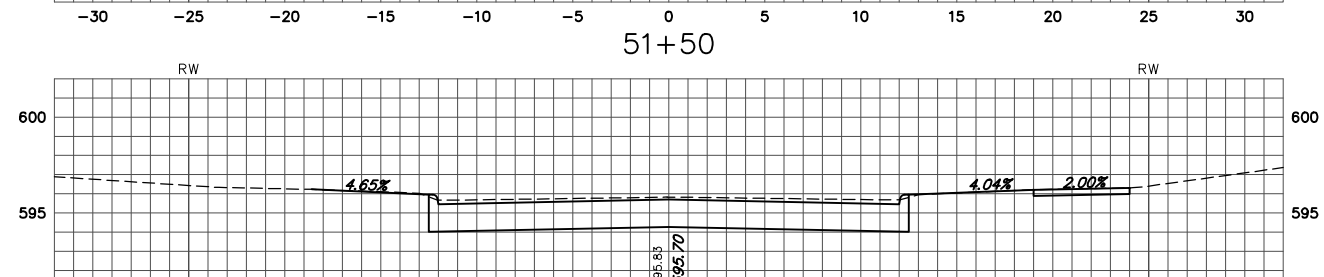
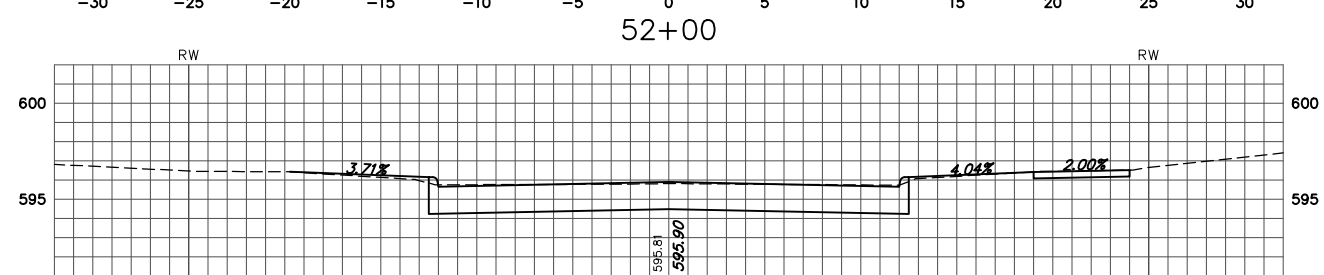
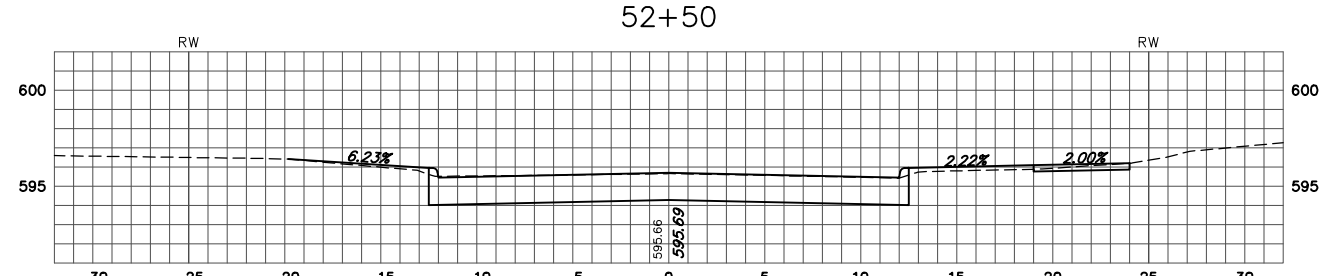
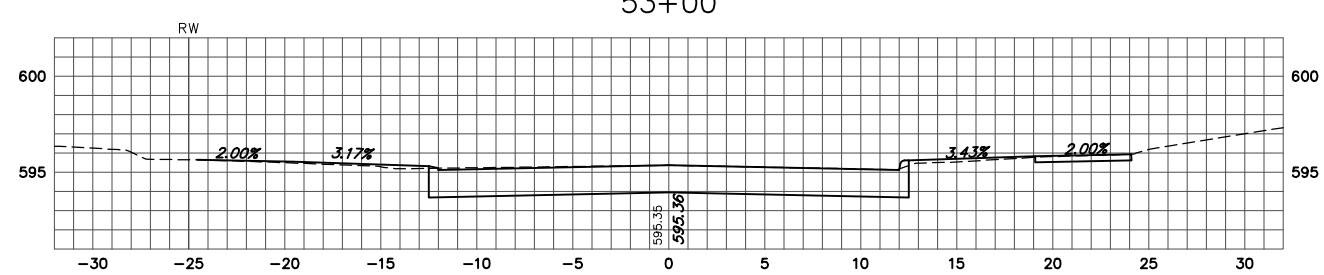
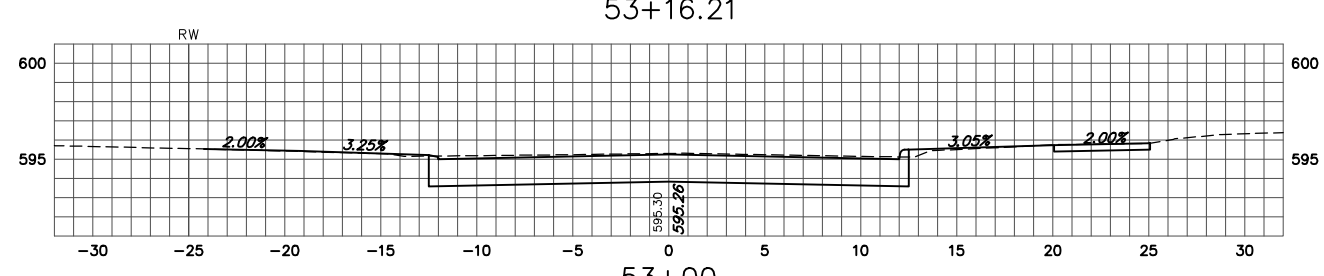
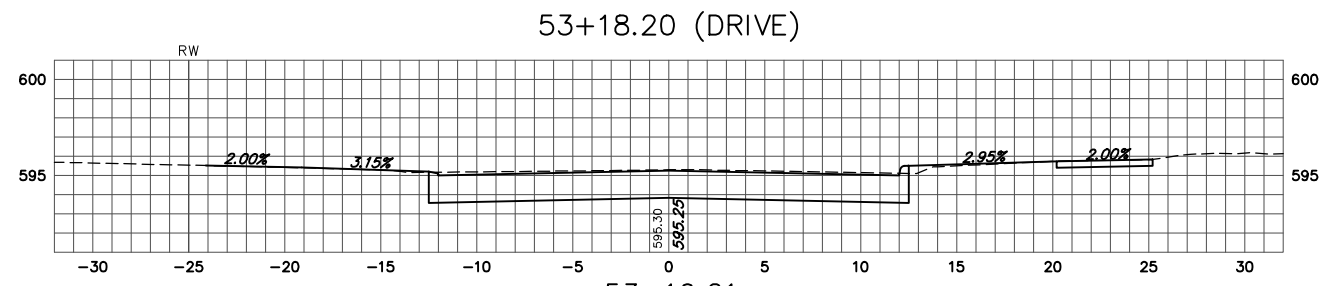
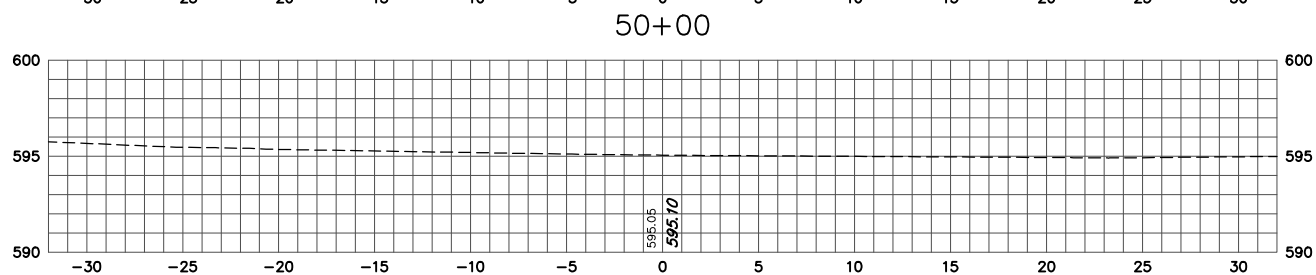
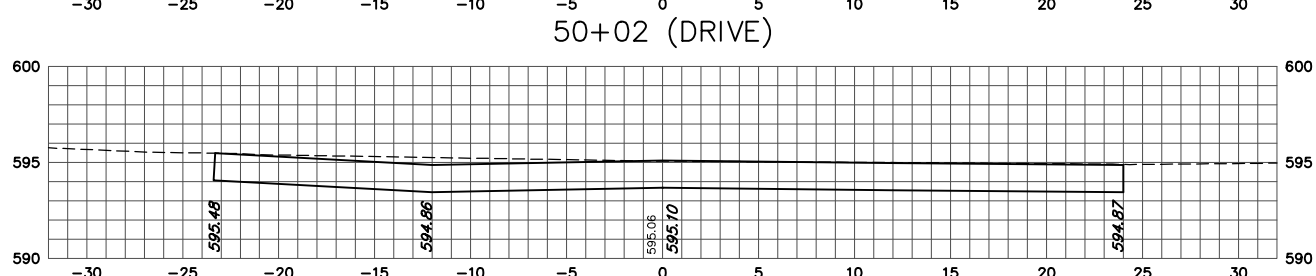
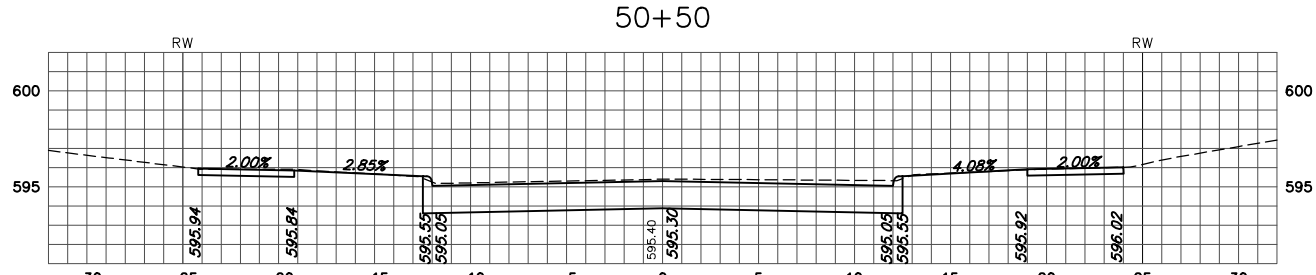
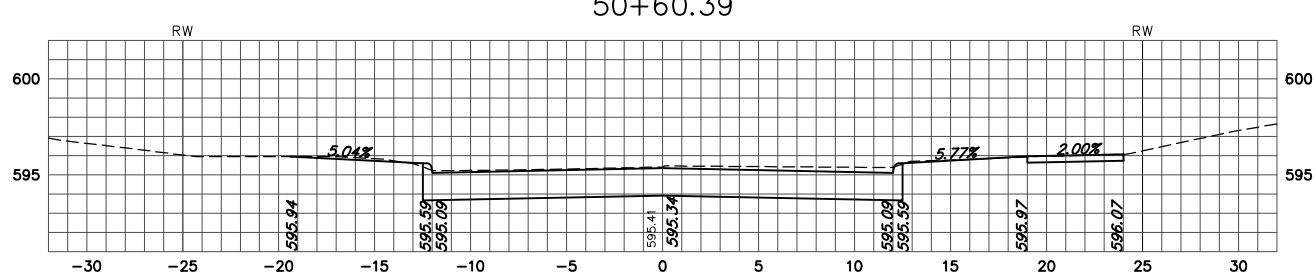
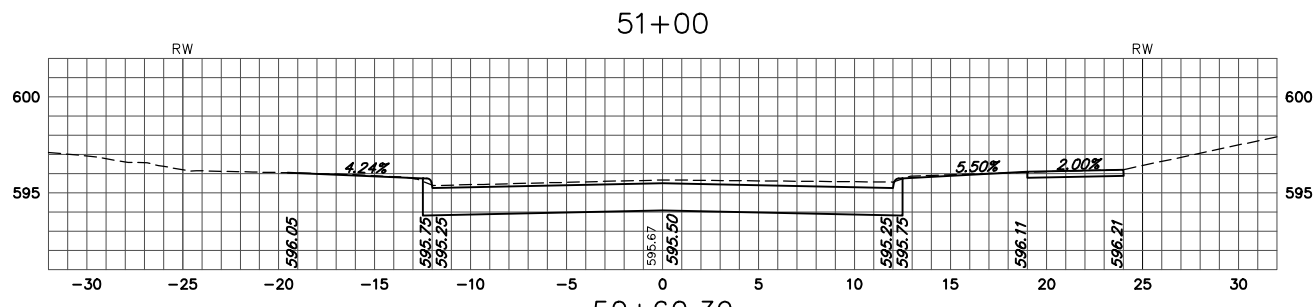
PROFILE SCALE
 HORIZ. 1" = 5'
 VERT. 1" = 5'

CALCULATED	CSK	CHECKED	AWD

E. 159TH & EUCLID BEACH RECONSTRUCTION
 CROSS SECTIONS STA. 10+00 TO STA. 13+90

CLE-E. 159TH ST.

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PROFILE SCALE
 HORIZ. 1" = 5'
 VERT. 1" = 5'

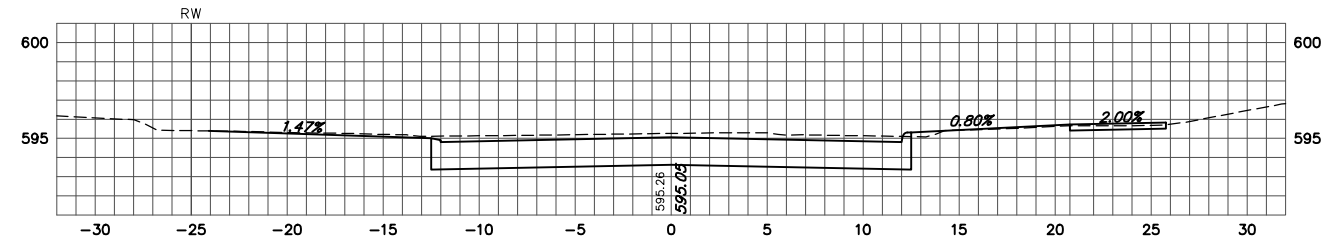
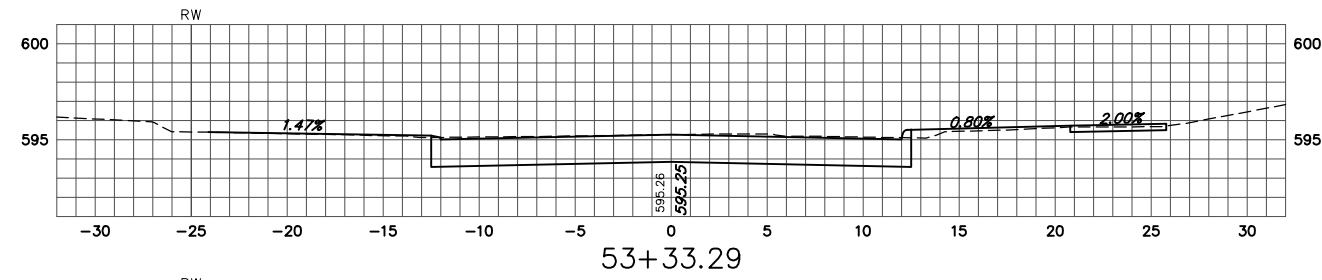
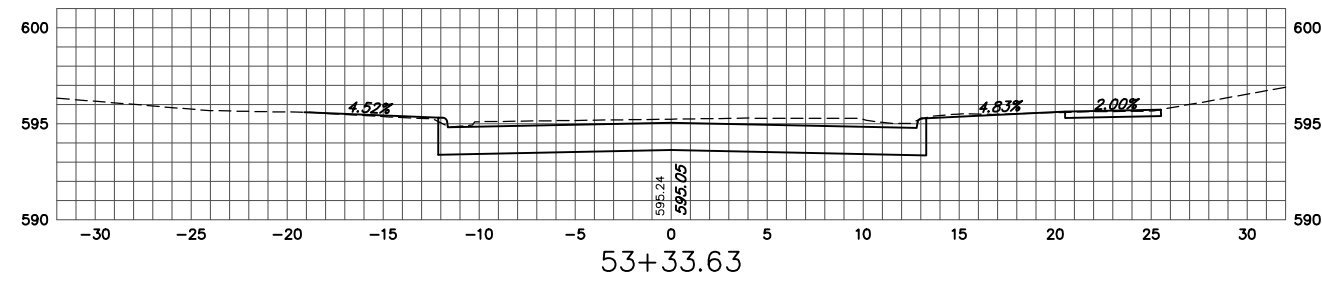
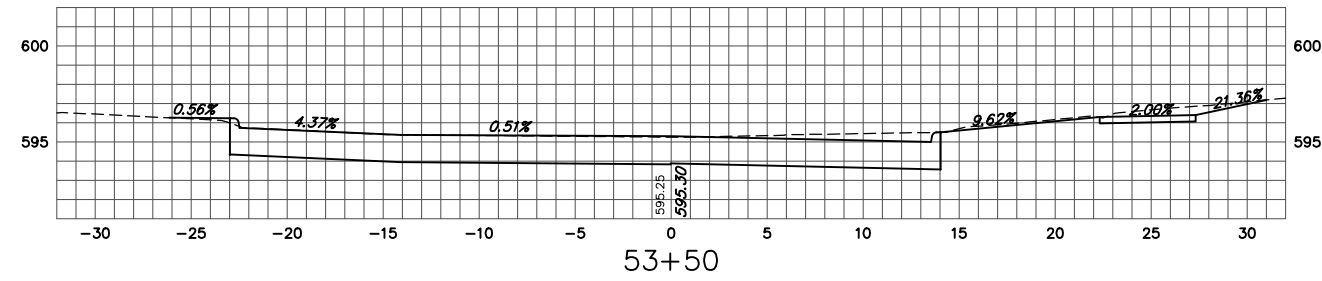
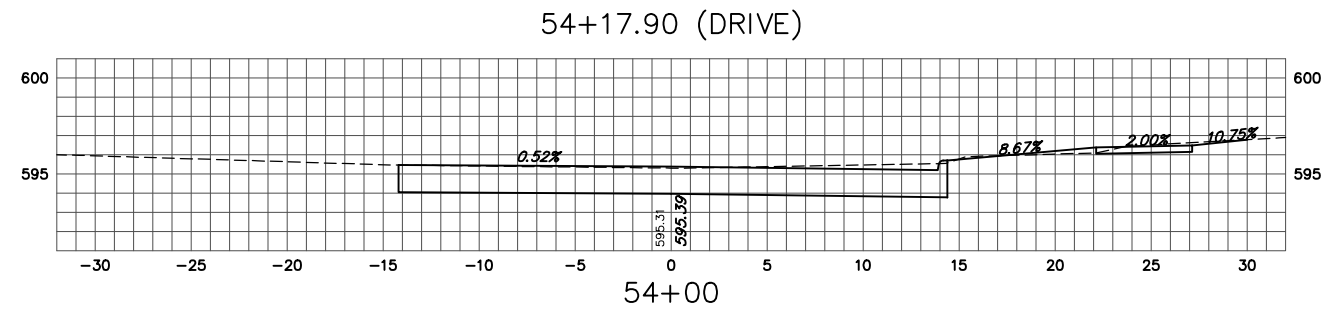


E. 159TH & EUCLID BEACH RECONSTRUCTION
 CROSS SECTIONS STA. 49+30 TO STA. 53+18

CLE-E. 159TH ST.

CALCULATED
 CSK
 CHECKED
 AWD

x

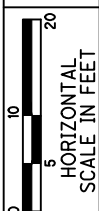


PROFILE SCALE
 HORIZ. 1" = 5'
 VERT. 1" = 5'

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BENCH MARK

TOP HYDRANT
STATION XX+XX.X, XX.0' XT.
ELEV.=XXX.XX



CALCULATED
CSK
CHECKED
AWD

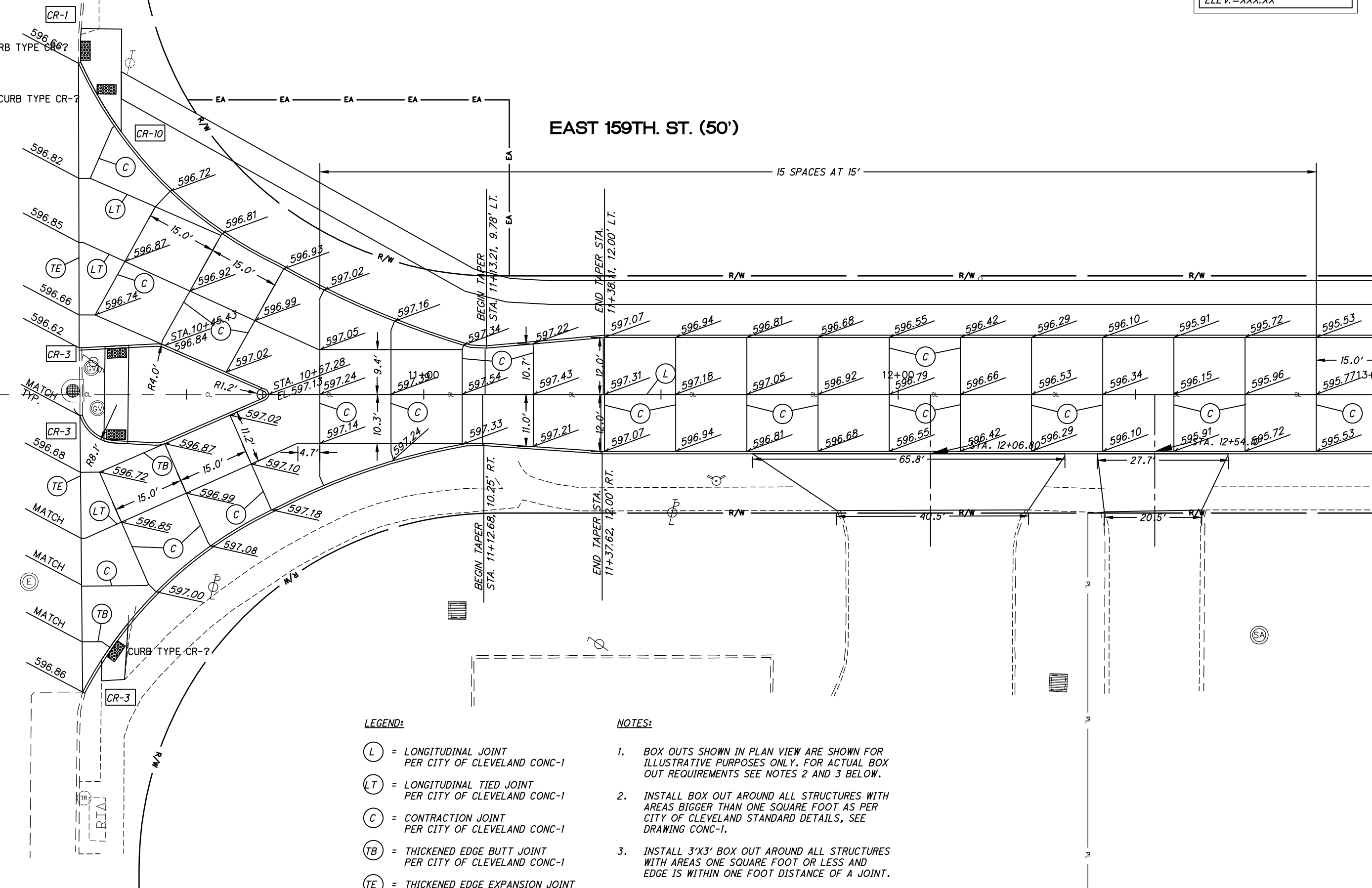
E. 159TH & EUCLID BEACH RECONSTRUCTION
JOINTING PLAN

CLE-E. 159TH ST.

LAKE SHORE BLVD. (80')

EAST 159TH. ST. (50')

15 SPACES AT 15'



LEGEND:

- (L) = LONGITUDINAL JOINT
PER CITY OF CLEVELAND CONC-1
- (LT) = LONGITUDINAL TIED JOINT
PER CITY OF CLEVELAND CONC-1
- (C) = CONTRACTION JOINT
PER CITY OF CLEVELAND CONC-1
- (TB) = THICKENED EDGE BUTT JOINT
PER CITY OF CLEVELAND CONC-1
- (TE) = THICKENED EDGE EXPANSION JOINT
PER CITY OF CLEVELAND CONC-1

NOTES:

1. BOX OUTS SHOWN IN PLAN VIEW ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR ACTUAL BOX OUT REQUIREMENTS SEE NOTES 2 AND 3 BELOW.
2. INSTALL BOX OUT AROUND ALL STRUCTURES WITH AREAS BIGGER THAN ONE SQUARE FOOT AS PER CITY OF CLEVELAND STANDARD DETAILS, SEE DRAWING CONC-1.
3. INSTALL 3'X3' BOX OUT AROUND ALL STRUCTURES WITH AREAS ONE SQUARE FOOT OR LESS AND EDGE IS WITHIN ONE FOOT DISTANCE OF A JOINT.
4. ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB.

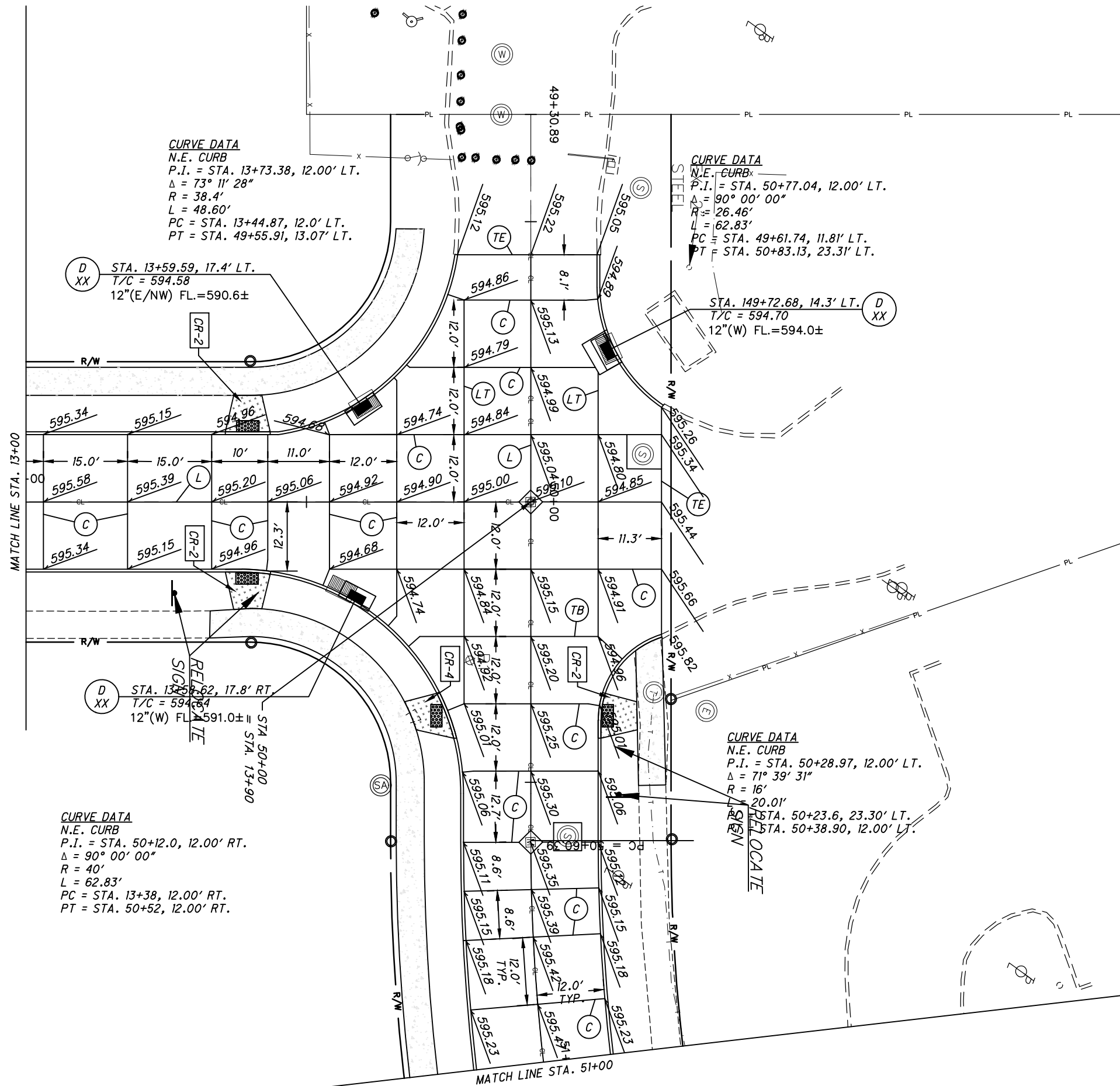
G:\2022\22-231 CLE EAST 159TH AND EUCLID BEACH RECONSTRUCTION\Drawings\22-231-PC-28 Paving Detail Sta 1300-1500.dwg 05-Sep-23 3:59 PM

BENCH MARK
 TOP HYDRANT
 STATION XX+XX.X, XX.0' XT.
 ELEV.=XXX.XX



E. 159TH & EUCLID BEACH RECONSTRUCTION
 JOINTING PLAN

CLE-E. 159TH ST.



CURVE DATA
 N.E. CURB
 P.I. = STA. 13+73.38, 12.00' LT.
 $\Delta = 73^\circ 11' 28''$
 R = 38.4'
 L = 48.60'
 PC = STA. 13+44.87, 12.0' LT.
 PT = STA. 49+55.91, 13.07' LT.

CURVE DATA
 N.E. CURB
 P.I. = STA. 50+77.04, 12.00' LT.
 $\Delta = 90^\circ 00' 00''$
 R = 26.46'
 L = 62.83'
 PC = STA. 49+61.74, 11.81' LT.
 PT = STA. 50+83.13, 23.31' LT.

CURVE DATA
 N.E. CURB
 P.I. = STA. 50+28.97, 12.00' LT.
 $\Delta = 71^\circ 39' 31''$
 R = 16'
 L = 20.01'
 PC = STA. 50+23.6, 23.30' LT.
 PT = STA. 50+38.90, 12.00' LT.

CURVE DATA
 N.E. CURB
 P.I. = STA. 50+12.0, 12.00' RT.
 $\Delta = 90^\circ 00' 00''$
 R = 40'
 L = 62.83'
 PC = STA. 13+38, 12.00' RT.
 PT = STA. 50+52, 12.00' RT.

LEGEND:

- (L) = LONGITUDINAL JOINT
PER CITY OF CLEVELAND CONC-1
- (LT) = LONGITUDINAL TIED JOINT
PER CITY OF CLEVELAND CONC-1
- (C) = CONTRACTION JOINT
PER CITY OF CLEVELAND CONC-1
- (TB) = THICKENED EDGE BUTT JOINT
PER CITY OF CLEVELAND CONC-1
- (TE) = THICKENED EDGE EXPANSION JOINT
PER CITY OF CLEVELAND CONC-1

NOTES:

1. BOX OUTS SHOWN IN PLAN VIEW ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR ACTUAL BOX OUT REQUIREMENTS SEE NOTES 2 AND 3 BELOW.
2. INSTALL BOX OUT AROUND ALL STRUCTURES WITH AREAS BIGGER THAN ONE SQUARE FOOT AS PER CITY OF CLEVELAND STANDARD DETAILS, SEE DRAWING CONC-1.
3. INSTALL 3'X3' BOX OUT AROUND ALL STRUCTURES WITH AREAS ONE SQUARE FOOT OR LESS AND EDGE IS WITHIN ONE FOOT DISTANCE OF A JOINT.
4. ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB.

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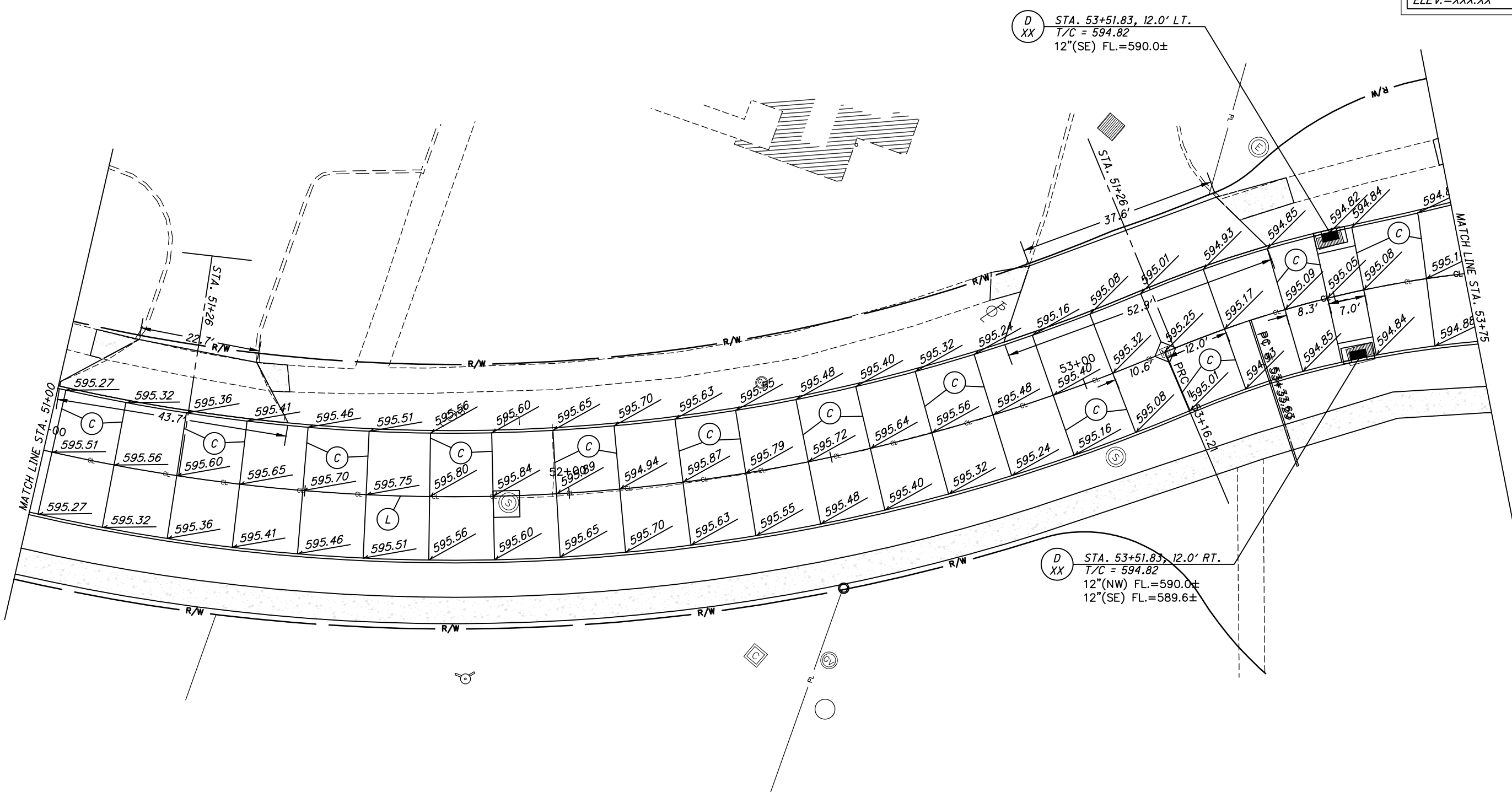
BENCH MARK
 TOP HYDRANT
 STATION XX+XX.X, XX.0' XT.
 ELEV.=XXX.XX



CALCULATED
 CSK
 CHECKED
 AWD

E. 159TH & EUCLID BEACH RECONSTRUCTION
 JOINTING PLAN

CLE-E. 159TH ST.



- LEGEND:**
- (L) = LONGITUDINAL JOINT
PER CITY OF CLEVELAND CONC-1
 - (LT) = LONGITUDINAL TIED JOINT
PER CITY OF CLEVELAND CONC-1
 - (C) = CONTRACTION JOINT
PER CITY OF CLEVELAND CONC-1
 - (TB) = THICKENED EDGE BUTT JOINT
PER CITY OF CLEVELAND CONC-1
 - (TE) = THICKENED EDGE EXPANSION JOINT
PER CITY OF CLEVELAND CONC-1

- NOTES:**
1. BOX OUTS SHOWN IN PLAN VIEW ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR ACTUAL BOX OUT REQUIREMENTS SEE NOTES 2 AND 3 BELOW.
 2. INSTALL BOX OUT AROUND ALL STRUCTURES WITH AREAS BIGGER THAN ONE SQUARE FOOT AS PER CITY OF CLEVELAND STANDARD DETAILS, SEE DRAWING CONC-1.
 3. INSTALL 3'X3' BOX OUT AROUND ALL STRUCTURES WITH AREAS ONE SQUARE FOOT OR LESS AND EDGE IS WITHIN ONE FOOT DISTANCE OF A JOINT.
 4. ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB.

G:\2022\22-231 CLE EAST 159TH AND EUCLID BEACH RECONSTRUCTION\Drawings\22-231-PG-30 Paving Detail Sta 5400-5700.dwg 05-Sep-23 4:02 PM

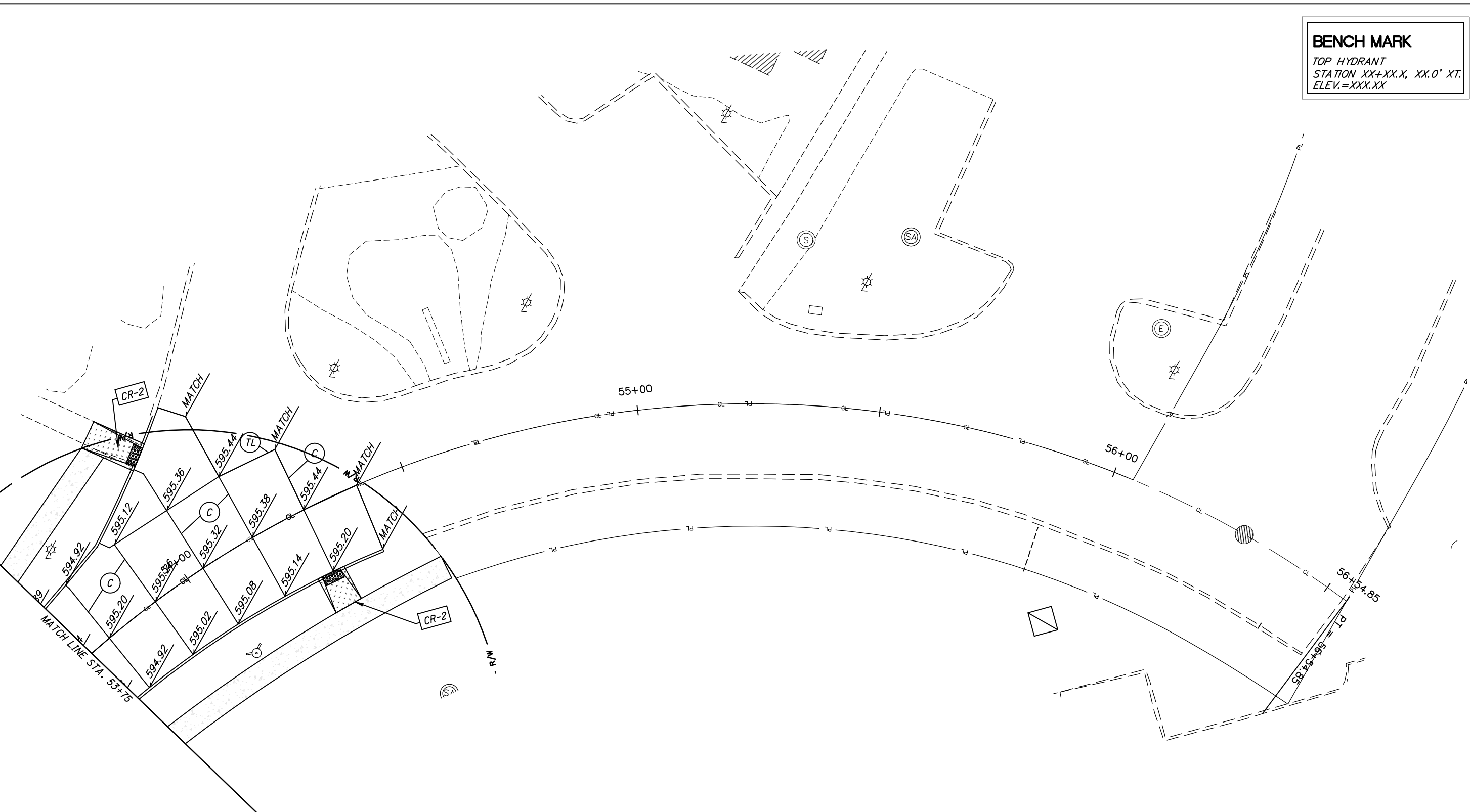
BENCH MARK
 TOP HYDRANT
 STATION XX+XX.X, XX.0' XT.
 ELEV.=XXX.XX



E. 159TH & EUCLID BEACH RECONSTRUCTION
 JOINTING PLAN

CLE-E. 159TH ST.

30
30



- LEGEND:**
- (L) = LONGITUDINAL JOINT
PER CITY OF CLEVELAND CONC-1
 - (LT) = LONGITUDINAL TIED JOINT
PER CITY OF CLEVELAND CONC-1
 - (C) = CONTRACTION JOINT
PER CITY OF CLEVELAND CONC-1
 - (TB) = THICKENED EDGE BUTT JOINT
PER CITY OF CLEVELAND CONC-1
 - (TE) = THICKENED EDGE EXPANSION JOINT
PER CITY OF CLEVELAND CONC-1

- NOTES:**
1. BOX OUTS SHOWN IN PLAN VIEW ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR ACTUAL BOX OUT REQUIREMENTS SEE NOTES 2 AND 3 BELOW.
 2. INSTALL BOX OUT AROUND ALL STRUCTURES WITH AREAS BIGGER THAN ONE SQUARE FOOT AS PER CITY OF CLEVELAND STANDARD DETAILS, SEE DRAWING CONC-1.
 3. INSTALL 3'X3' BOX OUT AROUND ALL STRUCTURES WITH AREAS ONE SQUARE FOOT OR LESS AND EDGE IS WITHIN ONE FOOT DISTANCE OF A JOINT.
 4. ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB.