

CITY OF MASSILLON
CITY ENGINEERING DEPARTMENT
STARK COUNTY, OHIO
Erie St S Improvement STA 241 8.33 PID 116456

PROJECT DESCRIPTION

Work shall include pavement planing, placement of a new surface course, curb, drive apron reconstruction, lighting, concrete walks, driveway, basement and wall, signing, pavement markings, and minor drainage improvement and catch basin replacement.

CONVENTIONAL SIGNS

RIGHT OF WAY . . . EXISTING: —Ex R/W—, PROPOSED: —PE-R/W—
COUNTY LINE . . . ————
TOWNSHIP LINE . . . ————
CORPORATION LINE . . . ————
FENCE LINE . . . EXISTING: —X—, PROPOSED: —X—
GUARDRAIL . . . EXISTING: ————, PROPOSED: ————
MANHOLES . . . EXISTING: (S), PROPOSED: (S), REHABILITATED: (S)
CATCH BASINS . . . EXISTING: (S), PROPOSED: (S), REHABILITATED: (S)
SIGNS . . . 1-POST: —, 2-POST: —, 3-POST: —, STREET: #
EXISTING POLES . . . POWER: (S), TELEPHONE (S), LIGHT (S), SPAN (S)
PROPOSED POLES . . . POWER: (S), TELEPHONE (S), LIGHT (S), SPAN (S)
EXIST. UTILITIES . . . VALVE: (S), HYDRANT: (S), METERS: (S), GUY: (S)

PROJECT DESCRIPTION

CURRENT YEAR ADT (2022) 5100
DESIGN YEAR ADT (2042) 5100
DESIGN HOURLY VOLUME (2042) 448
DIRECTION DISTRIBUTION 50%
TRUCK (24 HOUR B&C) 5.0%
DESIGN SPEED 25 MPH
LEGAL SPEED 25 MPH
DESIGN FUNCTION CLASSIFICATION 03-PRINCIPAL ARTERIAL
NHS YES

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG



Call Before You Dig
1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

ODPS REFERENCE:

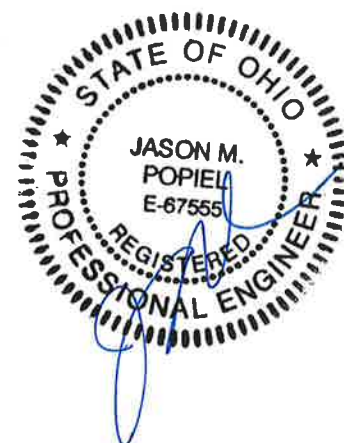
EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.346 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.000 AC.
NOTICE OF INTENT EARTH DISTURBED AREA: 0.346 AC.



LOCATION MAP

PORTION TO BE IMPROVED . . .
STREETS . . .



Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

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APPROVALS

APPROVED BY THE CITY OF MASSILLON THIS . . . DAY OF . . . , 2022

CITY OF MASSILLON

DATE

ENGINEER

Jason Popiel
JASON POPIEL, P.E., CPESC

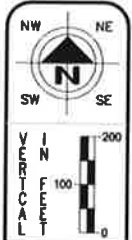
8-10-22

DATE

CITY OF MASSILLON ELECTED OFFICIALS

KATHY CATAZARO-PERRY MAYOR
JUSTIN RICHARD DIRECTOR OF LAW
JAYNE FERRERO AUDITOR
LINDA LITMAN TREASURER
COUNCIL
CLAUDETTE O. ISTNICK PRESIDENT
MARK LOMBARDI 1st WARD
JIM THIERET 2nd WARD
MICHAEL GREGG 3rd WARD
JILL CREAMER 4th WARD
JULIE HARWIG SMITH 5th WARD
MICHAEL SNEE 6th WARD
ED LEWIS IV AT LARGE
TED HURNCANE AT LARGE
JAMIE SLUTZ AT LARGE

ODOT STANDARD CONSTRUCTION DRAWING								SUPPLEMENTAL SPECIFICATIONS	
BP-1.1	7/28/00	MH-1.2	1/15/16	MT-97.10	7/18/14	TC-82.10	7/17/15	800-2016	10-19-18
BP-2.1	7/17/15	MH-1.3	1/18/13	MT-97.12	1/20/17	TC-83.10	1/19/18	813	7/20/18
BP-2.2	7/18/08			MT-99.20	7/20/18	TC-83.20	7/21/17	821	4/20/12
BP-3.1	7/18/14	HL-20.11	4/21/19	MT-101.60	1/20/17	TC-85.10	7/21/17	832	1/17/14
BP-4.1	7/19/13	HL-30.11	7/20/18	MT-102.20	7/18/14	TC-85.20	7/20/18	897	1/16/15
BP-5.1	7/20/18	HL-30.22	1/17/14	MT-105.10	7/19/13			902	12/31/12
BP-7.1	7/20/18	HL-40.20	7/15/22	MT-110.10	7/19/13			913	4/21/17
		HL-50.11	1/16/15					921	4/20/12
CB-1.3	1/15/16	HL-60.11	7/21/17	TC-21.21	7/15/22				
CB-2.2	7/20/18	HL-60.12	7/15/16	TC-41.20	10/18/13				
CB-2.3	1/15/16	HL-60.31	7/20/18	TC-41.40	10/18/13				
				TC-42.20	10/18/13				
DM-1.1	7/21/17	MT-95.31	7/21/17	TC-52.10	10/18/13				
DM-4.4	1/15/16	MT-95.32	7/21/17	TC-52.20	7/20/18				
		MT-95.60	7/19/13	TC-71.10	1/19/18				
		MT-95.61	7/19/13	TC-81.21	7/20/18				



HORIZONTAL SCALE IN FEET

CHECKED BY: JP

DATE: Nov, 2021

DRAWN BY: FPW

DATE: Nov, 2021

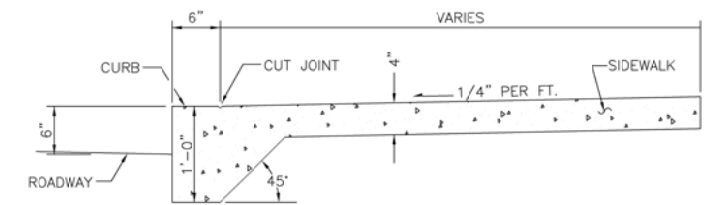
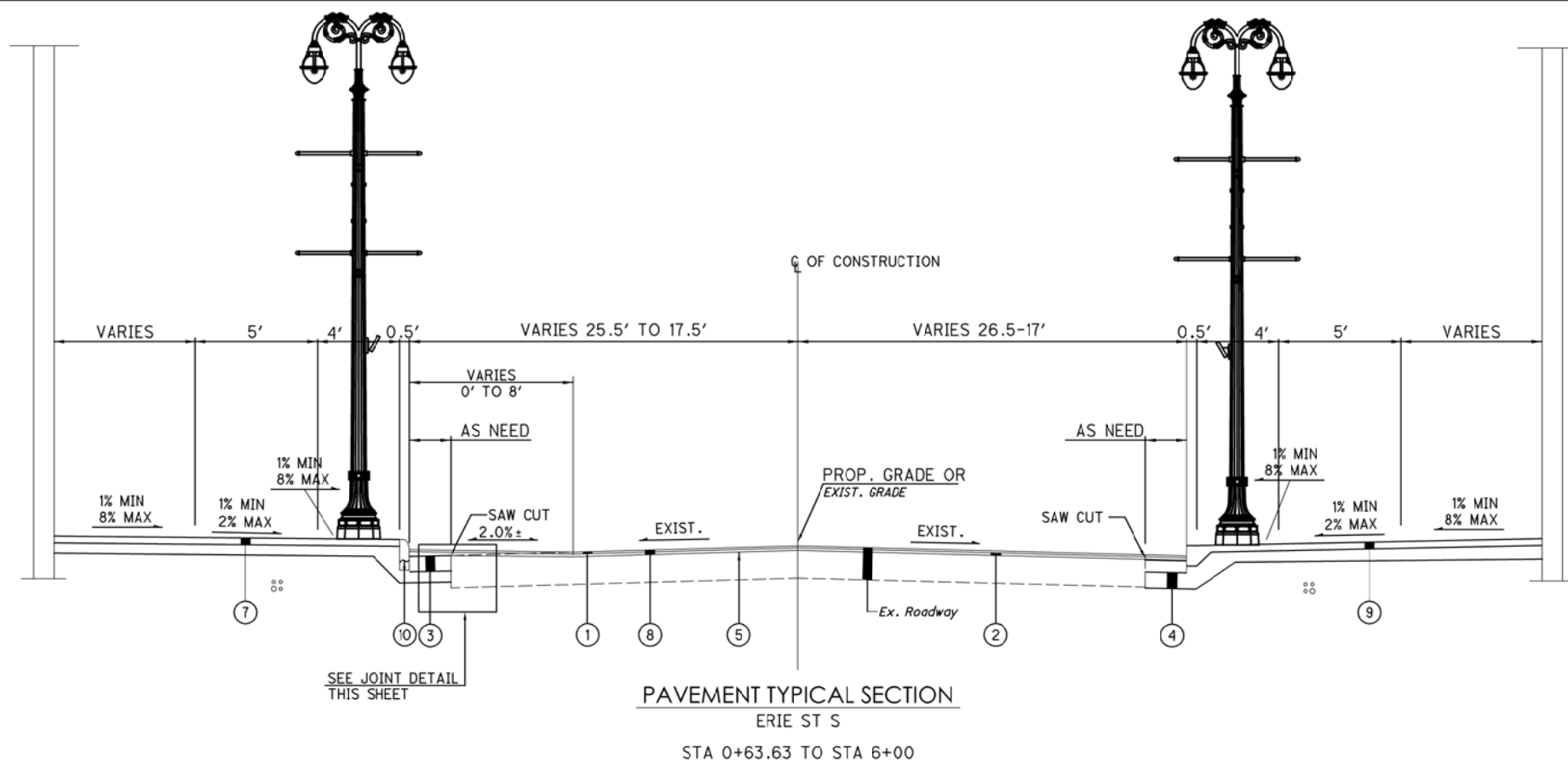
REVISIONS:	DESCRIPTION
DATE	

Erie St S Improvement STA. 241 8.33 PID 116456
Title Sheet
City of Massillon
Stark County, Ohio

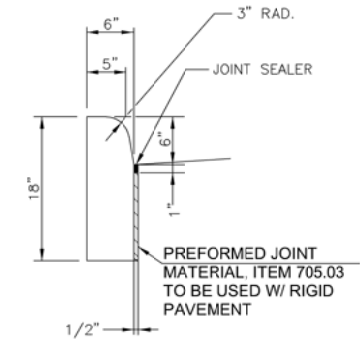
Massillon
City of Champions

DRAWING NAME:
Sht-1-Image/Photo/Title

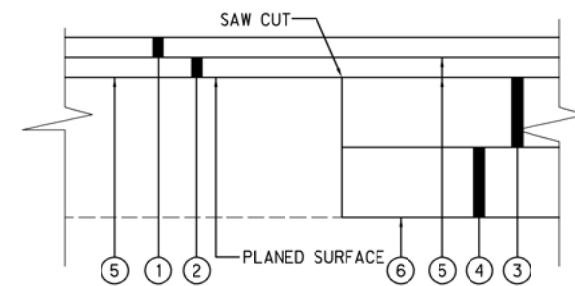
CITY NUMBER:
201106



COMBINED CURB & SIDEWALK



CURB TYPE 6



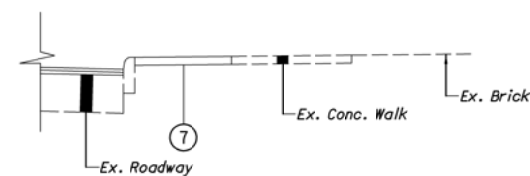
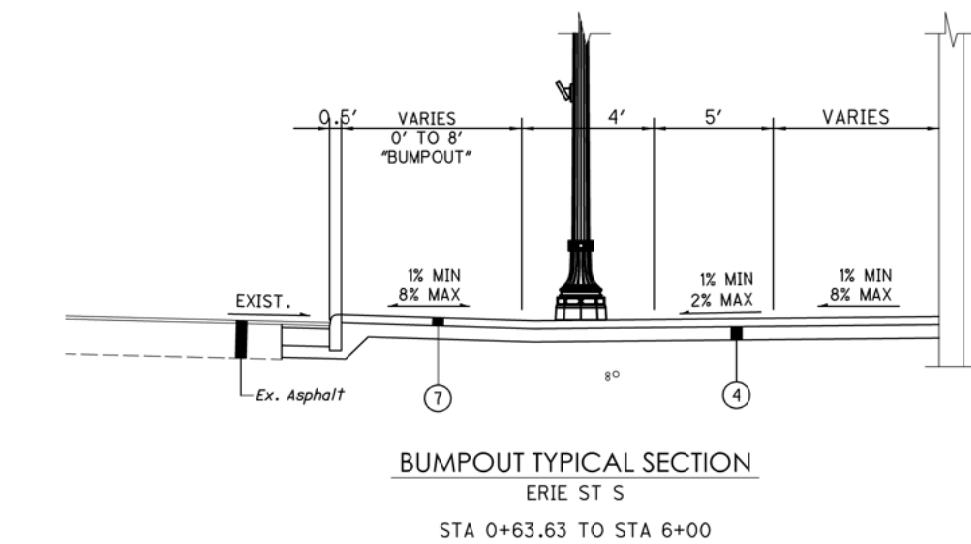
JOINT DETAIL

NOTE:

ALL JOINTS WITH EXISTING PAVEMENT SHALL RECEIVE ITEM 705.04 JOINT SEALER WORK AND MATERIAL SHALL BE INCLUDE IN COST OF ITEM 441 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG 64-22.

PROPOSED LEGEND

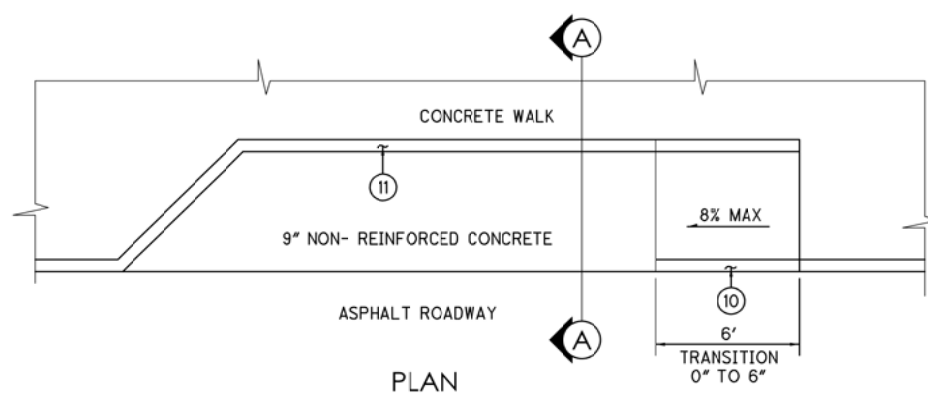
- ① - ITEM 441-1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22, AS PER PLAN
- ② - ITEM 441-VARIES (0"-3") ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22, AS PER PLAN
- ③ - ITEM 301-9" ASPHALT CONCRETE BASE
- ④ - ITEM 304-AGGREGATE BASE, AS PER PLAN
- ⑤ - ITEM 407-TACK COAT (0.10 GAL/SQ YD)
- ⑥ - ITEM 204 - SUBGRADE COMPACTION
- ⑦ - ITEM 608 - 4" CONCRETE WALK, AS PER PLAN
- ⑧ - ITEM 254-VARIES PAVEMENT PLANING (3" MAX. TO 0" MIN.), AS PER PLAN
- ⑨ - ITEM 609-COMBINED CURB AND SIDEWALK, AS PER PLAN
- ⑩ - ITEM 609-CURB, TYPE 6, AS PER PLAN
- ⑪ - ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS, AS PER PLAN



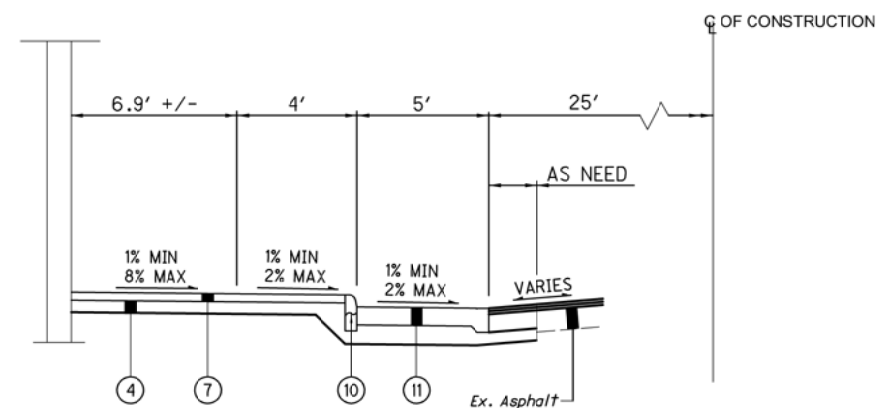
REPLACE BRICK WITH CONCRETE

ERIE ST S

SW-4, SW-5, SW-6



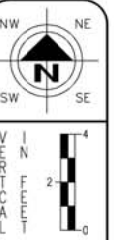
PLAN



SECTION A-A

HANDICAP ACCESS

ERIE ST S



HORIZONTAL SCALE IN FEET

CHECKED BY:

DATE: April, 2022

DRAWN BY: FPW

DATE: April, 2022

REVISIONS:	DESCRIPTION
DATE	

Erie St S Improvement STA 241 8.33 PID116456

Typical Section
City of Massillon
Stark County, Ohio

Kathy Calzavara-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
ErieStS-Typ

CITY NUMBER:
22st04

2 / 16

* THE FOLLOWING NOTES ARE CITY OF MASSILLON STANDARD NOTES AND MAY NOT BE APPLICABLE TO ALL PROJECTS.

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988

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.

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

AT&T 50 W. BOWERY, 6TH FLOOR AKRON, OH. 44308 800-364-3561	AQUA WATER 870 3RD ST NW MASSILLON, OH. 44647 (330) 832-5764	OHIO EDISON 2600 S ERIE ST MASSILLON, OH 44646 (330) 830-7083	MASSILLON CABLE 814 CABLE COURT NW MASSILLON, OH. 44646 (330) 833-4134 X116	GREAT LAKES 104 6TH ST SW CANTON, OH. 44702 (330) 456-2454
CITY OF MASSILLON SIGNAL/ LIGHTING 401 WALNUT RD SE MASSILLON, OH 44646 (330) 833-5746	CITY OF MASSILLON SANITARY SEWER 151 LINCOLN WAY E (330) 830-1922	DOMINION EAST OHIO GAS COMPANY 4725 SOUTHWAY ST SW CANTON, OH 44706 (330) 478-3142	NORTHEAST OHIO NATURAL GAS CORP. 9081 S.R. 250 STRASBURG, OH. 44680-9766 (330) 878-5589	

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT STEVEN SASALA, DISTRICT UTILITY COORDINATOR 330-786-3176, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED.

DATUM ELEVATION

ALL BENCHMARKS ARE BASED ON REFERENCE BENCHMARKS PROVIDED BY THE CITY OF MASSILLON

STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE BASELINE AS SHOWN.

NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL AGENCY LISTED BELOW AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

MASSILLON SAFETY SERVICE 330-830-1702	MASSILLON FIRE DEPARTMENT 330-833-1053	PERRY TOWNSHIP HALL 330-833-2141	NORTH LAWRANCE FIRE DEPT 330-832-6347
TUSCARAWAS TOWNSHIP HALL 330832-4337	JACKSON FIRE DEPARTMENT 330-832-1553	MASSILLON POLICE DEPARTMENT 330-830-1735	MASSILLON SCHOOL BUS GARAGE 330-830-1849
JACKSON TOWNSHIP HALL 330-832-7416	PERRY FIRE DEPARTMENT 330478-5121	JACKSON POLICE DEPARTMENT 330-497-7440	JACKSON SCHOOL BUS GARAGE 330-830-8042
PERRY POLICE DEPARTMENT 330-833-3865	PERRY SCHOOL BUS GARAGE 330-477-1300	STARK COUNTY SHERIFF 330-430-3887	TUSCARAWAS SCHOOL BUS GARAGE 330-837-7805
SARTA 330-454-5333			

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECTION OR EXCAVATION. THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

SURVEYING

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9 PM AND 7 AM. IN ADDITION, 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.

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: VRS MONUMENT TYPE: TYPE B
VERTICAL POSITIONING / ORTHOMETRIC HEIGHT DATUM: NAVD 88 / GEOID: 12 B
HORIZONTAL POSITIONING / REFERENCE FRAME: NAD83 / ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: STATE PLAN OHIO NORTH ZONE
COMBINED SCALE FACTOR: 0.9999097353
ORIGIN OF COORDINATE SYSTEM: 600,000 METERS, 0 METERS

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.
UNITS ARE IN U.S. SURVEY FEET.

WORK LIMTS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE SHALL BE AS SHOWN ON THE TYPICAL SECTIONS.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, 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 ALONG WITH PHOTOS BY THE STATE.

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 STATE.

ALL NEW OR RECONSTRUCTED INLETS CASTINGS SHALL BE BICYCLE SAFE.

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.

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

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT. A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE BID FORM FOR ITEM201SPEC, CLEARING AND GRUBBING. THIS ITEM SHALL INCLUDE ALL PROVISIONS AS SET FORTH IN THE 2019 ODOT SPECIFICATIONS. REMOVAL ITEMS MAY INCLUDE TREES, STUMPS, AND BRUSH AS DETERMINED BY THE CITY ENGINEER.

ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201SPEC, CLEARING AND GRUBBING.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL LAND MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHAL FURNISH A CERTIFICATION BY AN OHIO REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

RECORD PLANS

THE FOLLOWING RECORD PLANS ARE AVAILABLE FOR THIS AREA:

- 1923 PAVING PLANS (CITY OF MASSILLON)
- 1934 BRICK RELAY PLANS (CITY OF MASSILLON)
- D04-BH-FY2D15 (ODOT PID 92444)

MASSILLON DOWNTOWN HISTORIC DISTRICT, NATIONAL REGISTER OF HISTORIC PLACES (NRHP) #SG1000002553

THIS PROJECT WILL BE CONSTRUCTED ENTIRELY WITHIN THE BOUNDARY OF THE MASSILLON DOWNTOWN HISTORIC DISTRICT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES. ALL CONSTRUCTION OPERATIONS SHALL BE PERFORMED WITHIN THE CONSTRUCTION LIMITS AS INDICATED IN THE CONSTRUCTION PLAN. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STAGE/STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS ON ANY PROPERTY BEYOND THE DEFINED CONSTRUCTION LIMITS WITHIN THE MASSILLON DOWNTOWN HISTORIC DISTRICT.

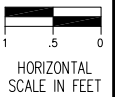
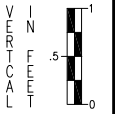
ITEM 202 - EXCAVATION, AS PER PLAN

PERFORM THIS ITEM OF WORK ACCORDING TO SECTION 202.05 OF THE CMS. INCLUDE THE COST TO REMOVE AND DISPOSE OF ASPHALT, BRICK, OR CONCRETE PAVEMENT AND FULL DEPTH PAVEMENT SAWING IN THE UNIT PRICE BID FOR: ITEM 202, EXCAVATION, AS PER PLAN.

THIS ITEM OF WORK SHALL CONSIST OF REMOVING ALL EXISTING WALK, CURB, FOUNDATIONS, STEPS, RAMPS, PAVEMENT, EARTH, ETC. WITH IN WORK LIMITS AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE TO ELEVATIONS SHOWN.

FOR PAVEMENT REPAIR AREAS, REMOVE AND DISPOSE OF ALL UNSUITABLE MATERIAL BY EXCAVATING TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER FOR PAVEMENT REPAIR AREAS.

COSTS FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM..



CHECKED BY:
JP

DATE:
March, 2022
DRAWN BY:
FPW

DATE:
March, 2022

REVISIONS:	DESCRIPTION	
	DATE	

Erie St S Improvement STA 241 8.33 PID116456
General Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:
ErieSt15-GN1

CITY NUMBER:
22st04

ITEM 304 - AGGREGATE BASE , AS PER PLAN

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 304 IN THE CMS EXCEPT GRANULATED SLAG (GS) SHALL NOT BE PERMITTED.

COSTS FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

4" OF AGGREGATE BASE SHALL BE USED PER TYPICAL SECTION FOR PROPOSED CONCRETE WALK, RAMPS AND DRIVES.

6" OF AGGREGATE BASE SHALL BE USED PER TYPICAL SECTION FOR PROPOSED PAVED AND CURBED AREAS ANYTHING OVER A 2' SLOT IN FRONT OF THE CURB SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION.

ITEM 304 - AGGREGATE BASE, AS PER PLAN 209 CY

ITEM 608 - CURB RAMP, AS PER PLAN

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 608 IN THE CMS AND SCD BP7.1 TYPE A1 NEW CURB RAMP, EXCEPT AS MODIFIED HEREIN. CONCRETE SHALL MEET THE REQUIREMENTS NOTED AS PART OF ITEM 608 - 4" CONCRETE WALK, A.P.P.

DETECTABLE WARNING DEVICES SHALL BE LIMITED TO REINFORCED POLYMER COMPOSITE, COLOR: RED.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

DRAINAGE:

ITEM 611 - 12", 15" CONDUIT, TYPE B

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 611 IN THE CMS, EXCEPT MATERIALS SHALL BE LIMITED TO CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (CMS 707.33) OR POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (707.65).

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 611 - CATCH BASIN TYPE 7030

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 611 IN THE CMS, AND ACCORDING TO STANDARD CONSTRUCTION DRAWING CB-2.2, OR MASSILLON STANDARD DWG SEE SHEET 13.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 611 - DRAINAGE MANHOLE ADJUSTED, AS PER PLAN

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 611 DRAINAGE STRUCTURE CONSTRUCTION IN THE CMS AND AS MODIFIED HEREIN. EXISTING DRAINAGE STRUCTURES SHALL BE RE-CONSTRUCTED, ADJUSTED TO GRADE WITH GRADE RINGS / AN APPROVED LEVELING DEVICE, AND FURNISHED WITH A NEW ROUND MANHOLE FRAME AND COVER.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

PAVEMENT:

PAVEMENT RESTORATION FOR PIPE AND DRAINAGE STRUCTURES, CURB INSTALLATION

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE.

ITEM 202 - STRUCTURE REMOVED
ITEM 202 - PIPE REMOVED
ITEM 609 - CONCRETE CURB
ITEM 611 - CATCH BASIN TYPE 7030
ITEM 611 - 12" TYPE B CONDUIT
ITEM 611 - 15" TYPE B CONDUIT

ITEM 254-VARIES PAVEMENT PLANING (3"MAX. - 0"MIN.), AS PER PLAN

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 254 IN THE CMS EXCEPT THE DEPTH SHALL VARY FROM 0" TO 3" TO RE-ESTABLISH SLOPE FOR POSITIVE DRAINAGE SEE SHEET 9 OF 16 FOR FINAL GRADE ELEVATIONS. THIS WORK SHALL BE PERFORMED SO THAT THE BRICK BASE IS NOT DISTURBED.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, TOOLS, AND OTHER INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THIS ITEM

ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, AS PER PLAN

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 441 IN THE CMS EXCEPT 703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 441 - VARIES (3"MAX. - 0"MIN.) ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) PG64-22, AS PER PLAN

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 441 IN THE CMS EXCEPT 703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

THIS ITEM IS TO BE USED TO REESTABLISH CROWN INTO EXISTING ROADWAY AS DIRECTED BY ENGINEER.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 452 IN THE CMS AND AS DETAILED - SEE SHEET 2 FOR PAVEMENT DETAILING. CONCRETE CLASS QC MS SHALL CONFORM TO ITEM 499 EXCEPT AS MODIFIED HEREIN. CEMENTICIOUS MATERIALS SHALL BE LIMITED TO PORTLAND CEMENT, AND AIR-COOLED BLAST FURNACE SLAG CEMENT (FLY ASH IS NOT PERMITTED). COARSE AGGREGATE MATERIALS SHALL BE LIMITED TO LIMESTONE ONLY (SLAG, OR RECYCLED AGGREGATE IS NOT PERMITTED).

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 608 IN THE CMS, EXCEPT AS DETAILED AND MODIFIED HEREIN -

MATERIAL SHALL BE CONCRETE CLASS QC MS SHALL CONFORM TO ITEM 499 EXCEPT AS MODIFIED HEREIN. CEMENTICIOUS MATERIALS SHALL BE LIMITED TO PORTLAND CEMENT, AND AIR-COOLED BLAST FURNACE SLAG CEMENT (FLY ASH IS NOT PERMITTED). COARSE AGGREGATE MATERIALS SHALL BE LIMITED TO LIMESTONE ONLY (SLAG, OR RECYCLED AGGREGATE IS NOT PERMITTED).

CONCRETE FINISH: PROVIDE MEDIUM TO FINE TEXTURED BROOM FINISH. DRAW SOFT BRISTLE BROOM ACROSS FLOAT-FINISHED CONCRETE SURFACE, PERPENDICULAR TO LINE OF PEDESTRIAN TRAFFIC, TO PROVIDE A UNIFORM, FINE-LINE TEXTURE. SIDEWALK SCORING JOINTS SHALL BE EQUALLY SPACED BETWEEN AND ALONG PLANTERS, APPROXIMATELY 4'-5' ON CENTER, BOTH WAYS, AS SHOWN, AND ALIGNED WITH PAVEMENT CORNERS.

CONCRETE CURING: CURE CONCRETE BY CURING COMPOUND MEETING THE REQUIREMENTS OF ASTM C 309, TYPE 1, CLASS B. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM 609 - , COMBINED CURB AND SIDEWALK, AS PER PLAN:

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 609 IN THE CMS, EXCEPT AS DETAILED AND MODIFIED HEREIN - SEE SHEET 2 FOR CURB DETAILING.

THIS ITEM MAY BE USED INSTEAD OF ITEM 609 -CURB, TYPE 6, AS PER PLAN AND ITEM 608 CONCRETE WALK, AS PER PLAN.

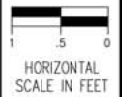
COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.
PAYMENT FOR THIS ITEM SHALL AS:

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN
ITEM 609 - CURB, TYPE 6, AS PER PLAN

ITEM 609 - CURB, TYPE 6, AS PER PLAN:

THIS ITEM WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 609 IN THE CMS, EXCEPT AS DETAILED AND MODIFIED HEREIN - SEE SHEET 2 FOR CURB DETAILING. CURB SHALL BE CONSTRUCTED INTEGRALLY WITH ADJACENT 4" CONCRETE WALK. CONCRETE MATERIALS AND FINISH SHALL MATCH ADJACENT 4" CONCRETE WALK.

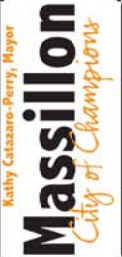
COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.



CHECKED BY: JP
DATE: March, 2022
DRAWN BY: FPW
DATE: March, 2022

REVISIONS:	DESCRIPTION
	DATE

Erie St S Improvement STA 241 8.33 PID116456
General Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:
ErieStS-GN2
CITY NUMBER:
22st04

ITEM 625 - LIGHT POLE, CONVENTIONAL:

IN ADDITION TO THE REQUIREMENTS OF CMS 625.09, THE FOLLOWING SHALL APPLY:

LIGHT POLES SHALL BE EITHER KING LUMINAIRE (STELLAR SERIES WITH CLEVELAND BASE; KSB19-FF-S-22) OR UNION METAL (NOSTALGIA; B895-53-B7-Y1), OR APPROVED EQUAL. POLES WILL BE FITTED WITH BANNER ARMS, 20A, 120 V DUPLEX RECEPTACLE WITH COVER, PAINTED SEMI-GLOSS BLACK (FEDERAL COLOR CODE FS 27038).

LIGHT POLES SHALL INCLUDE BRACKET ARMS BY EITHER KING LUMINAIRE (KA14-T-2), OR UNION METAL (ALUMINUM BISHOP'S CROOK ASSEMBLY STYLE 895), OR APPROVED EQUAL. BRACKET ARMS WILL MATCH THE OVERALL APPEARANCE AND FUNCTION OF THE DETAIL IN THE PLANS AND PAINTED SEMI-GLOSS BLACK (FEDERAL COLOR CODE FS 27038) (WET COATED OR POWDER COATED), MANUFACTURED BY:

KING LUMINAIRE
1153 STATE ROUTE 46N
JEFFERSON, OHIO 44047
1-800-268-7809
WWW.KINGLUMINAIRE.COM

UNION METAL
PO BOX 9920
CANTON, OHIO 44711
330-455-7659

THE CONTRACTOR SHALL FURNISH AND INSTALL LIGHT POLES AS PER THE PLAN DETAILS. ALL HARDWARE EQUIPMENT SHALL BE INCLUDED WITH THIS ITEM.

ALL PROPOSED EXTERIOR CONNECTIONS (SIGNS, ETC.) TO LIGHT POLES SHALL BE FIELD DRILLED. BANDING OR STRAPPING ON THE NOSTALGIA POLES SHALL NOT BE PERMITTED.

ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

LUMINAIRES SHALL BE UNION METAL (NLJ1-110-A13-Y5F LESS LAMP BALLAST), OR KING LUMINAIRE (K804 CORONET SR WITH SHALLOW LENS; K804-PRSH-V-60-SSL-8060-208V-4K-BK-WS) OR APPROVED EQUAL. PHOTO ELECTRIC CONTROL, PAINTED SEMI-GLOSS BLACK (FEDERAL COLOR CODE FS 27038) (WET COATED OR POWDER COATED). MANUFACTURED BY:

UNION METAL	SENTRY ELECTRIC LCC
PO BOX 9920	185 BUFFALO AVE
CANTON, OHIO 448711	FREEPORT, NEW YORK 11520-4707
330-455-7659	516-379-4660
WWW.UNIONMETAL.COM	WWW.SENTRYLIGHTING.COM

KING LUMINAIRE
1153 STATE ROUTE 46N
JEFFERSON, OHIO 44047
1-800-268-7809
WWW.KINGLUMINAIRE.COM

POWER SUPPLY FOR LIGHTING

ELECTRIC POWER SHALL BE OBTAINED FROM OHIO EDISON AT THE LOCATION INDICATED ON THE PLANS (PS-2). POWER SUPPLIED SHALL BE 120/208 VOLT, 3 PHASE, 4 WIRE.

THE OUTLET CIRCUITS WERE DESIGNED FOR 120 VOLT. THE LIGHTING CIRCUITS WERE DESIGNED FOR 208 VOLT.

ITEM 625 - POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

OHIO EDISON
2600 S. ERIE STREET
MASSILLON, OHIO 44646
ATTN: KEVIN MCCLUSKY
PHONE: 330-830-7083
EMAIL: MCCLUSKYK@FIRSTENERGYCORP.COM

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

HIGH VOLTAGE TEST WAIVED:

THE HIGH VOLTAGE TEST SHALL NOT BE PERFORMED ON THE CIRCUITS CONSTRUCTED BY THIS PROJECT, SINCE THE TEST COULD DAMAGE THE PORTION OF THE COMPLETED CIRCUIT WHICH HAS BEEN IN SERVICE PRIOR TO THIS PROJECT.

ITEM 625 - TRENCH IN PAVED AREA, TYPE B, AS PER PLAN:

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 625 IN THE CMS, AND AS DETAILED - SEE SHEET 10 FOR DETAILING. THIS ITEM INCLUDES SAWCUTTING & THE REMOVAL OF EXISTING PAVEMENT (ASPHALT, BRICK, OR CONCRETE) AND PAVEMENT RESTORATION AS DETAILED.

COST FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM SPECIAL - MAINTAINING EXISTING LIGHTING:

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN. BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF ANY EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION A WRITTEN RECORD OF THE CONDITION OF THE EXISTING LIGHTING SHALL BE MADE BY THE STATE'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT OPERATIONAL, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR. IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS. REPLACEMENTS OF KNOCKED DOWN UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A PER UNIT BASIS. BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENTS. THE MAINTAINING AGENCY SHALL GIVE THE CONTRACTOR ONE COPY OF THE EXISTING LIGHTING CIRCUITRY LAYOUT. WHEN THE CONTRACTOR HAS TAKEN OVER THE MAINTENANCE OF THE EXISTING SYSTEM, HE SHALL PROVIDE ALL REQUIRED LAYOUT AND LOCATING OF EXISTING LIGHTING CIRCUITS WITHIN THE PROJECT.

SHOULD THE CONTRACTOR DESIRE THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR ADEQUATE TEMPORARY LIGHTING OF THAT PORTION OF THE EXISTING ROADWAY AFFECTED BY THE REMOVAL OF THE EXISTING LIGHTING. TWO [2] WEEKS PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR (4) SETS OF THE TEMPORARY LIGHTING PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL. THIS PLAN SHALL SHOW LOCATION OF POLES, LENGTH OF BRACKET ARMS, STYLE OF LUMINAIRES, MOUNTING HEIGHT, WIRING METHODS, AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 12 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY RATIO NOT TO EXCEED 4:1. MOUNTING HEIGHT FOR TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 27 FEET AND MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "A" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE.

WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THIS CRITERIA, THEN UNDERGROUND WIRING WILL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING. ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. A SEPARATE POWER SERVICE WILL BE PROVIDED BY THE CONTRACTOR FOR THE TEMPORARY LIGHTING SYSTEM. THE TEMPORARY LIGHTING SHALL NOT BE SPICED INTO EXISTING LIGHTING CIRCUITS. THE CONTRACTOR SHALL PAY ALL HOOK-UP FEES AND ELECTRICAL COSTS FOR THE TEMPORARY SYSTEM. THESE COSTS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM SPECIAL MAINTAIN EXISTING LIGHTING. WHEN NO LONGER NEEDED THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE LUMP SUM BID FOR ITEM SPECIAL - MAINTAIN EXISTING LIGHTING, SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, INCIDENTALS, AND TEMPORARY POWER SERVICES NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

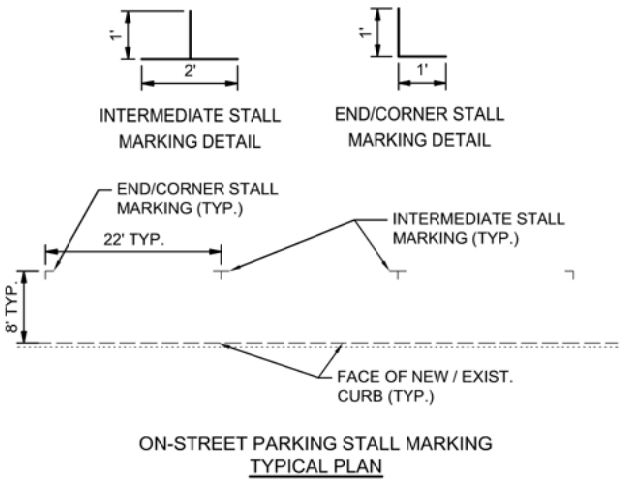
THE UNIT BID PRICE FOR EACH ITEM SPECIAL - REPLACING EXISTING CONVENTIONAL LIGHTING UNIT, SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFORE-MENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

ITEM SPECIAL - REPLACEMENT OF EXISTING L'GHTING UNIT	1	EA
ITEM SPECIAL - MAINTAIN EXISTING LIGHTING	1	LS

TRAFFIC CONTROL

ITEM 643 - PAVEMENT MARKING, MISC.: ON STREET PARKING STALL

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 644 IN THE CMS, EXCEPT AS DETAILED HEREIN. MARKING WIDTH SHALL BE TYPICAL 4 INCHES WIDE, COLOR WHITE.



COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.



CHECKED BY:	JP
DATE:	March, 2022
DRAWN BY:	FPW
DATE:	March, 2022

REVISIONS:	DESCRIPTION
DATE	

Erie St S Improvement STA 241+8.33 PID116456
General Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:	ErieStS-GN3
CITY NUMBER:	22st04

ITEM625SPEC - STREET LIGHT REMOVAL INCLUDING WIRING

THIS WORK SHALL CONSIST OF REMOVAL OF EXISTING STREET LIGHT. ITEMS INCLUDED IN WORK SHALL BE POLES, BULBS, FIXTURES, AND WIRING. THIS WORK SHALL ALSO INCLUDING THE CORDINATION OF THE EXISTING POWER BEING DISCONNECTED. REMOVAL OF ALL EXISTING CABLES (WIRING) CONNECTED TO LIGHT POLES BEING REMOVED SHALL BE INCLUDED IN UNIT PRICE BID.

ITEM 625SPEC - STREET LIGHT REMOVAL INCLUDING WIRING - EACH

ITEM SPEC - ELECTRIC SERVICE TRANSFER TO UNDERGROUND

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH MASSILLON BUILDING CODE AND FIRST ENERGY STANDARDS. WORK SHALL INCLUDE REMOVAL OF EXISTING OVERHEAD ELECTRIC, REQUIRES PERMITS AND FEES, FURNISHING AND PLACING ALL MATERIALS FOR THE PROPER INSTALLATION OF THE UNDERGROUND ELECTRIC. ALL POWER TRANSFER SHALL BE COORDINATED WITH OWNERS AND FIRST ENERGY.

- 11 LINCOLN WAY E - (COMMERCIAL BUILDING) F & M PROPERTIES
- 10 ERIE ST S - (TRAFFIC, LIGHTING) CITY OF MASSILLON
- 113 ERIE ST S - (COMMERCIAL BUILDING) PERTECH INC

COST FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

LANDSCAPING

ITEM 661SPEC - PLANTER AREA WITH 3" GREEN VASE ZELKOVA

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH ITEMS 653, 661, 662, IN THE CMS, ITEM 653 TOPSOIL, ITEM,662 LANDSCAPE WATERING, ITEM 661 MULCH SHALL BE INCLUDED IN THIS BID ITEM. EXCEPT AS MODIFED HEREIN. PROVIDE ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS CONSISTING OF:

- 1. 100% DOUBLE SHREDDED HARDWOOD BARK MULCH WITH NO FILLERS OR COMPOST.
- 2. 3 INCHES MAXIMUM, 1/2" MINIMUM SIZE RANGE.
- 3. NATURAL COLOR (NO DYE'S).

FURNISHED TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS:

- 1. TOPSOIL/PLANTING SOIL: IMPORTED, NATURALLY FORMED SOIL FROM OFF-SITE SOURCES AND CONSISTING OF SANDY LOAM SOIL ACCORDING TO USDA TEXTURES; AND MODIFIED WITH SOIL AMENDMENTS, AND FERTILIZER TO PRODUCT VIABLE TOPSOIL/PLANTING SOILS.

LOOSE, FRIABLE, NATURAL, FERTILE SOIL, FREE OF STONES, CLAY LUMPS, ROOTS, AND FOREIGN OR TOXIC MATTER. MIX SHALL BE CLASSIFIED IN THE "SANDY LOAM" PORTION OF THE USDA SOIL TEXTURAL TRIANGLE. THE FRACTION PASSING THE #10 SIEVE SHALL MEET THE FOLLOWING MECHANICAL ANALYSIS:

- 10% TO 20% CLAY.
- 60% TO 75% SAND.
- 20% TO 30% SILT.

CONTAIN 5-15% ORGANIC MATTER AS DETERMINED BY LOSS OF IGNITION OF SAMPLES OVEN DRIED TO CONSTANT WEIGHT AT 212 DEG F. HAVE A PH LEVEL BETWEEN 6.3 AND 7.5. BE SCREENED THROUGH A 1-1/4" SCREEN.

PLACING TOPSOIL OVER EXPOSED SUBGRADE: APPLY MANUFACTURED SOIL ON-SITE IN ITS FINAL BLENDED CONDITION. DO NOT APPLY MATERIALS OR TILL IF EXISTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. TILL SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1-1/2 INCHES IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEIOUS MATERIAL AND LEGALLY DISPOSE OF THEM OFF PROJECT SITE. WHERE PROPOSED TOPSOIL DEPTHS ARE GREATER THAN 6 INCHES, APPLY TOPSOIL IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE DEPTH. SPREAD TOPSOIL TO DEPTH 1-2 INCHES ABOVE FINISHED GRADE TO ALLOW FOR NATURAL SETTLEMENT. DO NOT SPREAD IF SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.

PROTECTION: PROTECT AREAS OF IN-PLACE SOIL FROM ADDITIONAL COMPACTION, DISTURBANCE, AND CONTAMINATION. IF TOPSOIL OR SUBGRADE IS OVER COMPACTED, DISTURBED, OR CONTAMINATED BY FOREIGN OR DELETERIOUS MATERIALS OR LIQUIDS, REMOVE THE TOPSOIL AND CONTAMINATION; RESTORE THE SUBGRADE, AND REPLACE CONTAMINATED SOIL WITH NEW TOPSOIL/PLANTING SOIL.

COST FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM SPEC - BASEMENT WALLS

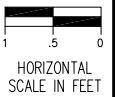
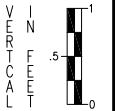
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING CONCRETE MASONRY WALLS WHERE EXISTING BASEMENTS EXTEND BEYOND THE PUBLIC RIGHT OF WAY, AND UNDER THE PUBLIC SIDEWALK. SEE DETAILING ON SHEET 7. BASEMENTS ARE TO BE WALLED OFF AT THE PUBLIC RIGHT OF WAY.

EXCAVATION FOR INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID.

PAYMENT FOR THIS ITEM WILL BE MADE BASED ON THE EXPOSED SQUARE FOOTAGE (FACE-FOOT) OF COMPLETED WALL. COST FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

ITEM SPECIAL - BASEMENT WALLS 250 S.F.

STATION TO STATION			SIDE				SPECIAL	613
				LENGTH	WIDTH	HEIGHT	BASEMENT WALLS	LOW STRENGTH MORTAR BACKFILL (TYPE 1)
				FT	FT	FT	SF	CY
BW-1								
1+04	TO	1+08	LEFT	5	5	10	50	10
BW-2								
1+50	TO	1+70	RIGHT	20	5	10	200	37
TOTAL							250	47



CHECKED BY: JP
DATE: March, 2022
DRAWN BY: FFW
DATE: March, 2022

REVISIONS:	DESCRIPTION	
	DATE	

Erie St S Improvement STA 241 8.33 PID116456
Removal Plan
City of Massillon
Stark County, Ohio



DRAWING NAME: ErieStS-GN4
CITY NUMBER: 22st04

LINCOLN WAY EAST

LINCOLN WAY WEST

BEGIN WORK
STA. 0+61.63

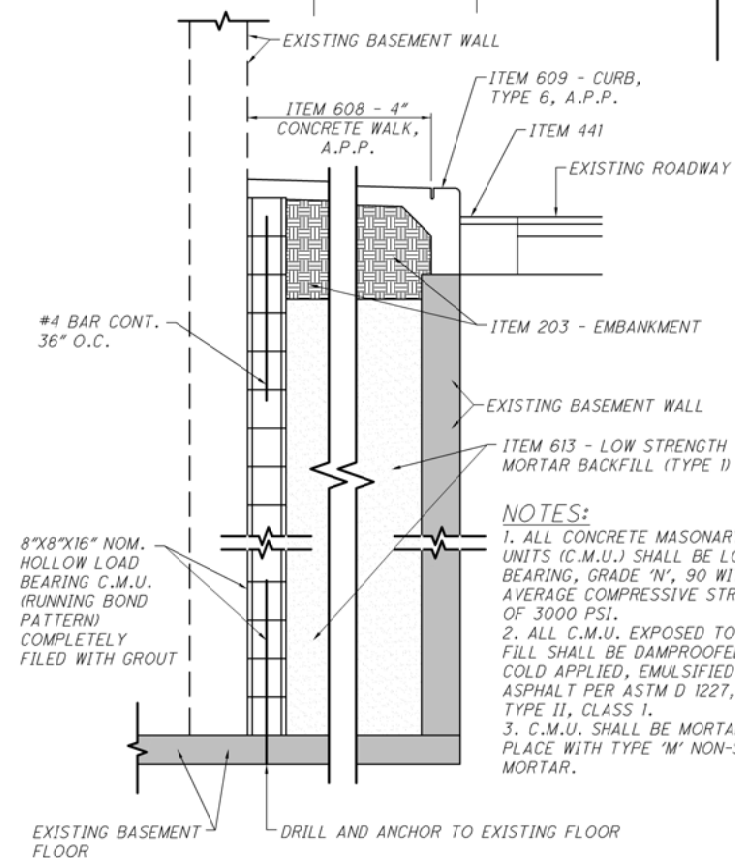
END WORK
STA. 6+04

LEGEND

-  STREETLIGHT, POLE AND WIRE REMOVAL
ITEM 625SPEC - STREET LIGHT REMOVAL INCLUDING WIRING - 11 EACH
-  TREE REMOVAL
ITEM 625SPEC - CLEARING AND GRUBBING
-  STUMP REMOVAL
ITEM 625SPEC - CLEARING AND GRUBBING
-  CATCH BASIN REMOVED
ITEM 202 - STRUCTURE REMOVED - 7 EACH
-  PIPE REMOVAL
ITEM 202 - PIPE REMOVAL - 35 LF
-  REMOVAL OF EXISTING WALK, CURB, FOUNDATIONS, STEPS, RAMPS, PAVEMENT, EARTH, ETC.
ITEM 202 - EXCAVATION, AS PER PLAN - 577 CY
-  BASEMENT WALL AND BACKFILL
ITEM SPECIAL - BASEMENT WALLS - 250 LF
ITEM 203 - EMBANKMENT - 100 CY
ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1) - 47 CY

CONTROL DATA

		STATION	NORTH	EAST
ERIE ST S	PI	0+50	413071.4759	2238953.6177
ERIE ST S	PI	6+25	412536.2743	2239163.8160
CP1	PKS	2+24.87, 36.90' RT.	412895.2179	2238983.1941
CP2	PKS	4+01.01, 0.13' RT.	412744.7099	2239081.8110



ITEM SPECIAL - BASEMENT WALLS



HORIZONTAL
SCALE IN FEET

CHECKED BY:
DATE: Jan., 2022
DRAWN BY:
DATE: Jan., 2022

REVISIONS:	DESCRIPTION
DATE	

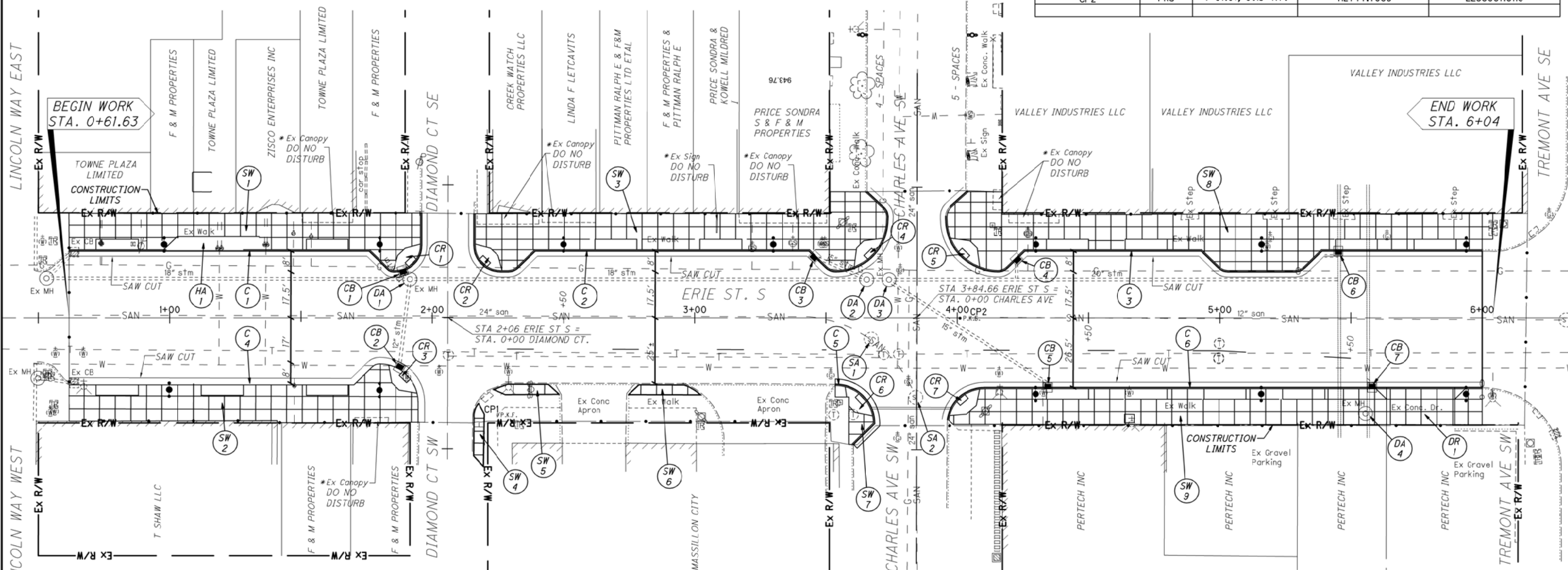
Erie St S Improvement STA 241 8.33 PID116456
Removal and Basement Removal
City of Massillon
Stark County, Ohio

Kathy Calzavara-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
ErieStS-CurbRamps
CITY NUMBER:
22st04

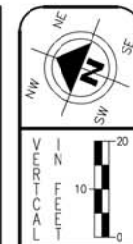
LINCOLN WAY EAST

LINCOLN WAY WEST



CONTROL DATA

		STATION	NORTH	EAST
ERIE ST S	PI	0+50	413071.4759	2238953.6177
ERIE ST S	PI	6+25	412536.2743	2239163.8160
CP1	PKS	2+24.87, 36.90' RT.	412895.2179	2238983.1941
CP2	PKS	4+01.01, 0.13' RT.	412744.7099	2239081.8110



HORIZONTAL SCALE IN FEET

CHECKED BY:
DATE: Jan., 2022
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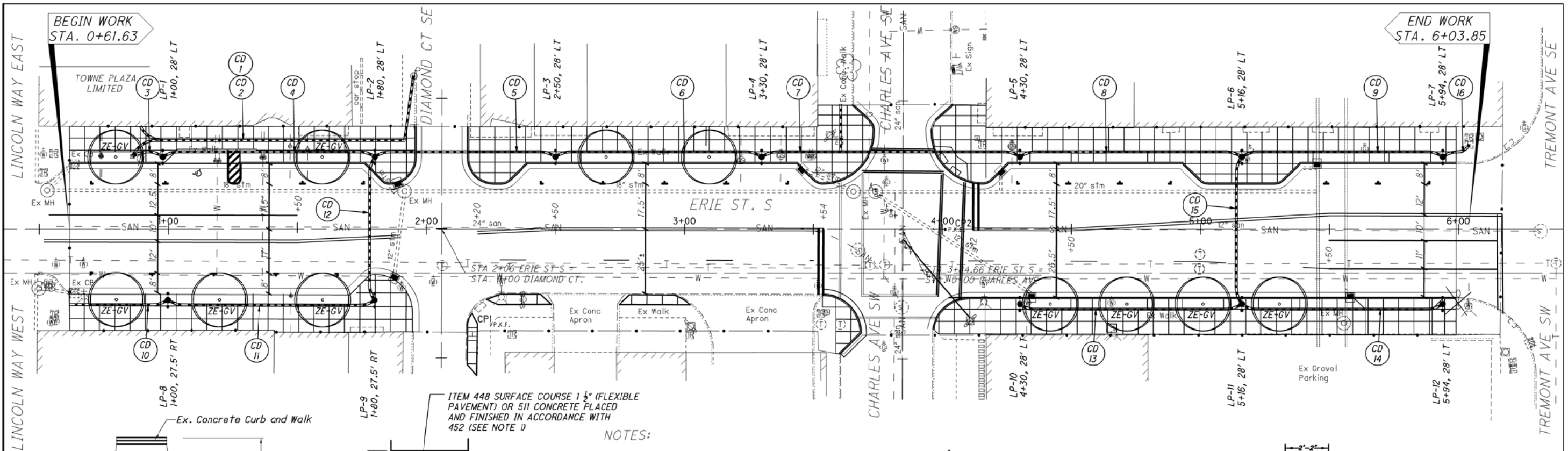
Erie St S Improvement STA 241 8.33 PID116456
Plan
City of Massillon
Stark County, Ohio

Kathy Calzavara-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
CITY NUMBER:

REF. No.	SIDE	STATION		202	202	304	608	609	611	611	611	
				PIPE REMOVED	STRUCTURE REMOVED	AGGREGATE BASE	CURB RAMPS	CURB, TYPE 6	12" TYPE B CONDUIT	15" TYPE B CONDUIT	CATCH BASIN TYPE: 7030	
		FROM	TO	LF	EACH	CY	SF	SF	LF	LF	EACH	
CB-1	LT	1+88.80		5	1					5	1	
CB-2	RT	1+87.54		5	1				5		1	
CB-3	LT	3+45.70		5	1					5	1	
CB-4	LT	4+22.58		5	1					5	1	
CB-5	RT	4+34.57		5	1					5	1	
CB-6	LT	5+45.08		5	1				5		1	
CB-7	RT	5+58		5	1				5		1	
CR-1	LT	1+93.02					59					
CR-2	LT	2+18.82					59					
CR-3	RT	1+90.72					61					
CR-4	LT	3+67.75					61					
CR-5	LT	4+01.65					61					
CR-6	RT	3+64.43					60					
CR-7	RT	4+00.86					63					
C-1	LT	0+61.63	1+98			8		174				
C-2	LT	2+15.98	3+73.60			10		207				
C-3	LT	3+95.60	6+00			11		240				
C-4	RT	0+61.63	1+98			7		153				
C-5	RT	2+15.98	3+73.60			2		35				
C-6	RT	3+95.60	6+00			10		211				
TOTALS CARRIED TO GENERAL SUMMARY				35	7	48	424	1002	15	20	7	

REF. No.	SIDE	STATION		304	608	611	611	203	452			
				AGGREGATE BASE	CONCRETE WALK	DRAINAGE MANHOLE ADJUSTED	SANITARY MANHOLE ADJUSTED	EMBANKMENT	NON-REINFORCED CONCRETE PAVEMENT CLASS QS MS A.P.P.			
		FROM	TO	CY	SF	EACH	EACH	CY	SY			
DA-1	LT	1+91.49				1						
DA-2	LT	3+65.50				1						
DA-3	LT	3+74.01				1						
DA-4	RT	5+55.55				1						
HA-1	RT	0+98	1+34						16			
SA-1	RT	3+67.23					1					
SA-2	RT	3+84.19					1					
SW-1	LT	0+61.63	1+95.95	20	1638							
SW-2	RT	0+61.63	1+95.08	21	1720							
SW-3	LT	0+16.39	3+73.11	28	2292							
SW-4	RT	2+15.78	2+19.79	1	77							
SW-5	RT	2+23.23	2+48.25	1	80							
SW-6	RT	2+74.83	3+02.34	1	85							
SW-7	RT	3+53.52	3+68.00	1	96							
SW-8	LT	3+96.10	6+04	38	3051							
SW-9	RT	3+96.77	6+00	25	2046							
		0+61.63	6+04					550				
TOTALS CARRIED TO GENERAL SUMMARY				136	11085	4	2	550	16			

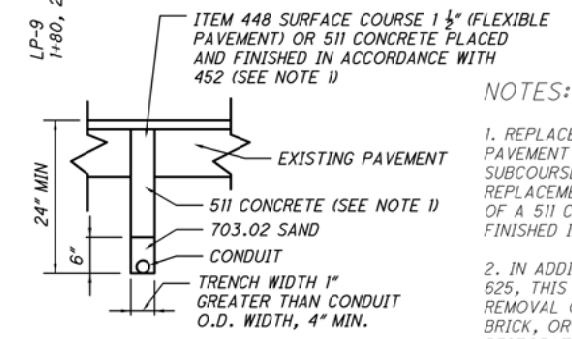
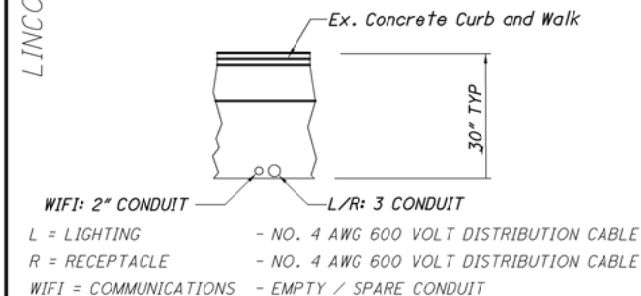


NE
N
S
SW

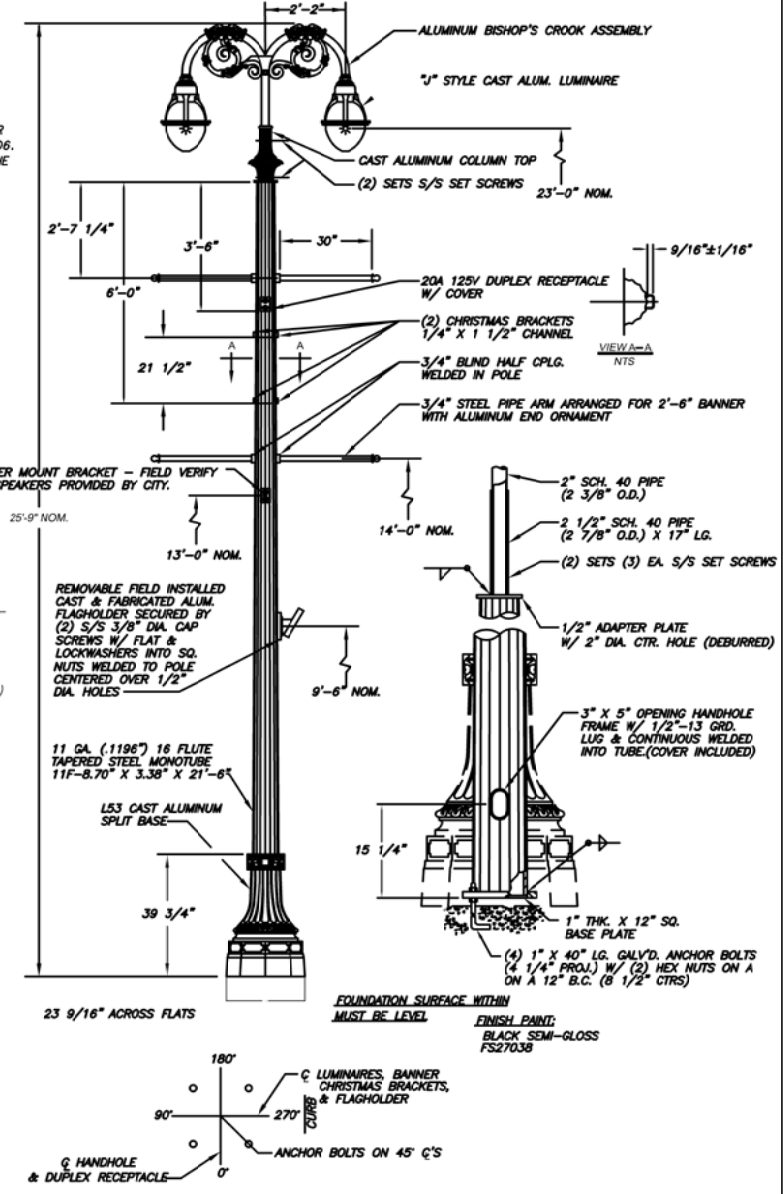
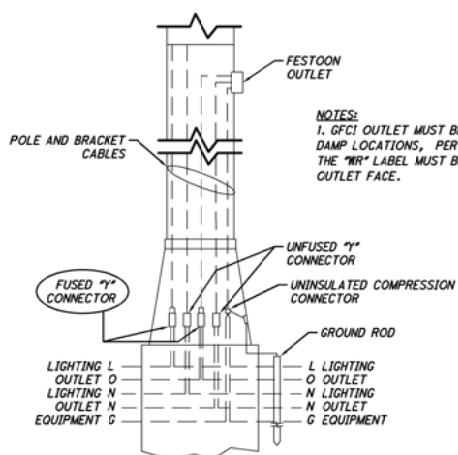
0 10 20
HORIZONTAL
SCALE IN FEET

CHECKED BY:
DATE: Jan., 2022
DRAWN BY: FPW
DATE: Jan., 2022

REVISIONS:	DATE	DESCRIPTION

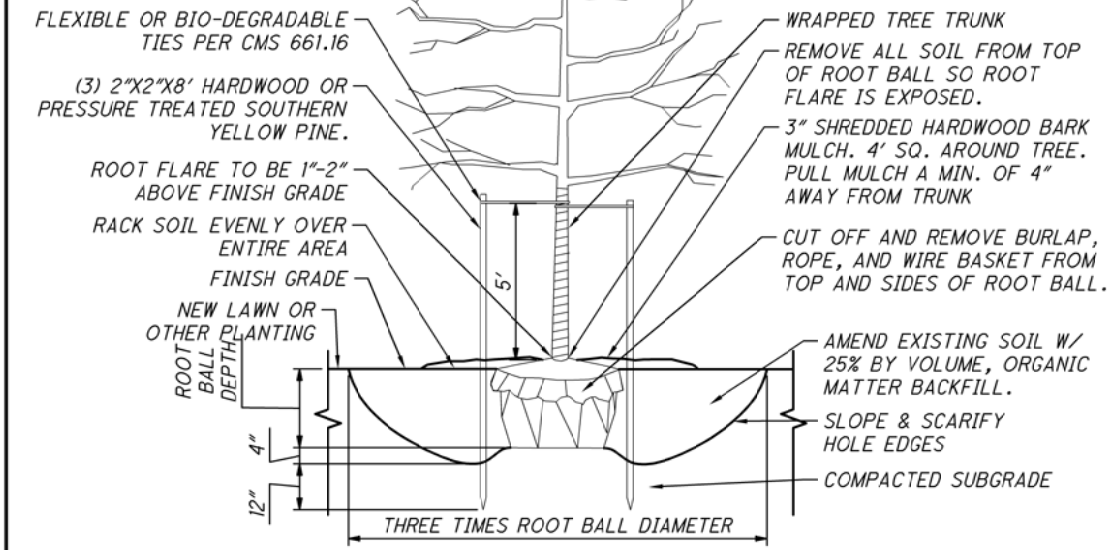
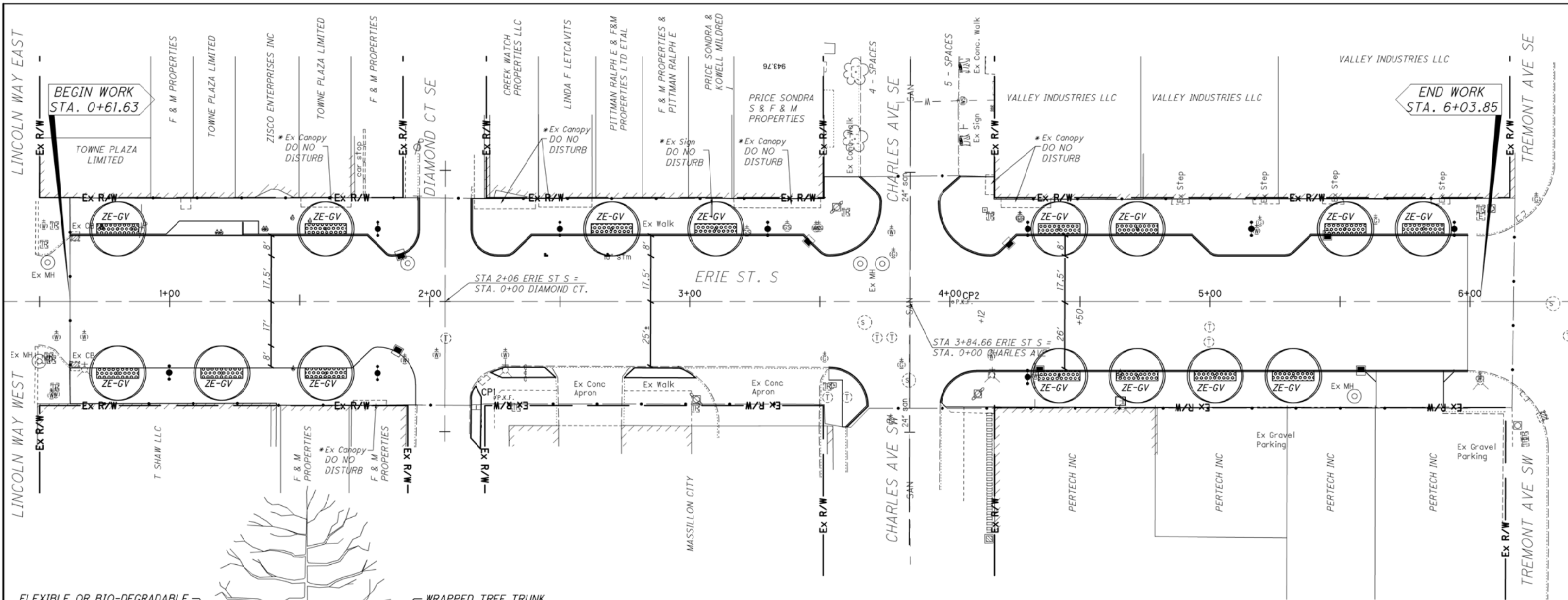


- NOTES:
1. REPLACEMENT OF DISTURBED FLEXIBLE PAVEMENT SHALL CONSIST OF A CMS 511 CONCRETE SUBCOURSE WITH A 448 SURFACE COURSE. REPLACEMENT OF RIDGE PAVEMENT SHALL CONSIST OF A 511 CONCRETE SURFACE WITH SURFACE FINISHED IN ACCORDANCE WITH 452.
 2. IN ADDITION TO THE REQUIREMENTS OF ITEM 625, THIS ITEM INCLUDED SAWCUTTING & THE REMOVAL OF EXISTING PAVEMENT (ASPHALT, BRICK, OR CONCRETE) AND PAVEMENT RESTORATION AS DETAILED.



- LEGEND
- PROPOSED LIGHT POLE
ITEM 625 - LIGHT POLE FOUNDATION, 24" X 6" DEEP
ITEM 625 - LIGHT POLE, CONVENTIONAL (AB BB 23)
ITEM 625 - LUMINAIRE, CONVENTIONAL SOLID STATE (LED)
 - PROPOSED CONDUITS (BANK)
ITEM 625 - CONDUIT, 3", 725.052
ITEM 625 - CONDUIT, 2", 725.052
 - ITEM 625 - PULL BOX, 725.06, SIZE 4
 - ITEM SPECIAL - POWER SERVICE, AS PER PLAN
16" PAD MOUNT BASE
CP3B51215AABK45P1
16"W x 17"D x 48"H
TYPE 3R ENCLOSURE
10K SCCR
200AMP 5JAW RINGLESS SKT W/ LEVER BYPASS
16 CIRCUIT LOADCENTER
100 AMP 2P MAIN C/B(BACKFED)-10KAIC
(1) 15A 1P C/B- CONTROL
(2) 20A 2P C/B'S
(2) 40A AP C/B'S
HOA SWITCH
PE SOCKET
(PE CONTROL SUPPLIED BY OTHERS)
(1) 24HR TIME CLOCK
(2) 60A 3P E/H CONTRACTORS
ALUMINUM CONSTRUCTION PAINTED SEMI GLOSS BLACK FS27038

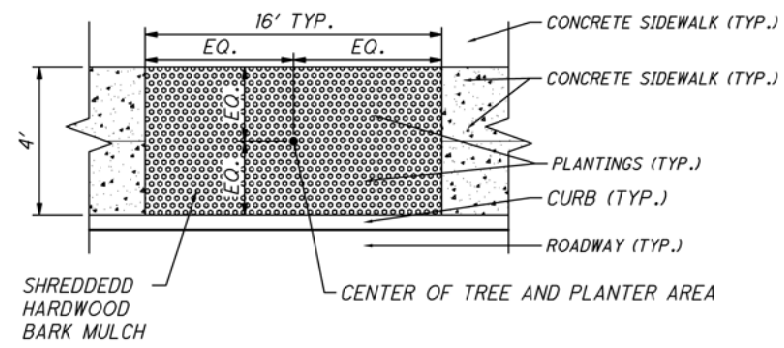
REF. No.	SIDE	STATION		625	625	625	625	625	625	625	625	SPEC	SPEC	
				LIGHT POLE FOUNDATION 24" X 6" DEEP	LIGHT POLE CONVENTIONAL (AA BB 23)	LIGHT POLE CONVENTIONAL SOLID STATE (LED)	CONDUIT, 3" 725.052	CONDUIT, 2" 725.052	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	GROUNDING ROD	TRENCHING IN PAVED AREA TYPE B, AS PER PLAN	PULL BOX 725.06 SIZE 4	POWER SERVICE AS PER PLAN	ELECTRIC SERVICE TRANSFER TO UNDERGROUND
		FROM	TO	EACH	EACH	EACH	LF	LF	LF	EACH	L.F.	EACH	LUMP	LUMP
CD-1	LT	1+94.5	0+86				134							
CD-2	LT	1+94.5	0+87				133							
CD-3	LT	11+98	12+66				14	14	170					
CD-4	LT	1+00	1+80				83	83	615					
CD-5	RT/LT	1+80	2+50				71	71	555	24				
CD-6	RT	2+50	3+30				81	81	605					
CD-7	RT	3+30	4+30				101	101	705	30				
CD-8	RT	4+30	5+16				87	87	635					
CD-9	RT	5+16	5+94				79	79	595					
CD-10	RT	0+61.5	1+00				39	39	295					
CD-11	RT	1+00	1+80				81	81	605					
CD-12	RT	1+80	1+80				58	58	490	58				
CD-13	RT	4+30	5+16				87	87	635					
CD-14	RT	5+16	5+94				79	79	595					
CD-15	RT	5+16	5+16				58	58	490	58				
CD-16	LT	5+94	6+04				12	12	160					
LP-1	LT	1+00		1	1	2				1				
LP-2	LT	1+80		1	1	2				1				
LP-3	LT	2+50		1	1	2				1				
LP-4	LT	3+30		1	1	2				1				
LP-5	LT	4+30		1	1	2				1				
LP-6	LT	5+16		1	1	2				1				
LP-7	LT	5+94		1	1	2				1				
LP-8	RT	1+00		1	1	2				1				
LP-9	RT	1+80		1	1	2				1				
LP-10	RT	4+30		1	1	2				1				
LP-11	RT	5+16		1	1	2				1				
LP-12	RT	5+94		1	1	2				1				
PS-1	RT	5+94								1		1	2	
TOTALS CARRIED TO GENERAL SUMMARY				12	12	24	1197	930	7150	13	170	4	1	2



- NOTES:**
1. SET ALL PLANTS SO THAT THEY BEAR THE SAME RELATION TO THE FINISH GRADE AS THEY DID IN THEIR PRIOR LOCATION.
 2. THOROUGHLY TILL AREA EQUAL TO 3 TIMES THE DIAMETER OF THE ROOT BALL AND TO THE DEPTH OF THE ROOT BALL. PRIOR TO TILLING, REMOVE ANY EXISTING LAWN OR VEGETATION.
 3. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1).
 4. HANDLE THE TREE BY ROOT BALL ONLY. DO NOT LIFT OR LEVERAGE TREE BY TREE TRUNK.
 5. BACKFILL AROUND TREE WITH TILLED SOIL AND "WATER IN" BACKFILL IN 6" LIFTS TO SETTLE IN BACKFILL. INSTALL BACKFILL 1" HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
 6. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY, AND SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS.
 7. REMOVE STAKES AND ARBOR TIES AFTER ONE YEAR, UNLESS DIRECTED OTHERWISE.

TREE PLANTING DETAIL

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS
SHADE TREES					
15	ZE-GV	ZELKOVA S. 'GREEN VASE'	GREEN VASE ZELKOVA	3" CAL.	B & B



ITEM 661 - PLANTER AREA WITH 3" CALIPER GREEN VASE ZELKOVA

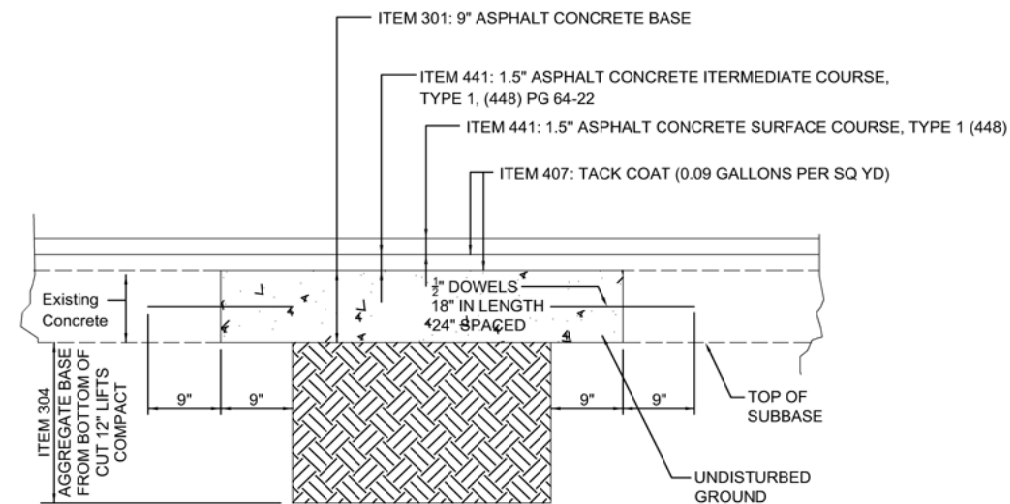
- | | |
|--------------------|----------------------|
| STA. 0+80, 28' LT. | STA. 0+80, 27.5' RT. |
| STA. 1+60, 28' LT. | STA. 1+20, 27.5' RT. |
| STA. 2+70, 28' LT. | STA. 1+60, 27.5' RT. |
| STA. 3+10, 28' LT. | STA. 4+42, 28.5' RT. |
| STA. 4+42, 28' LT. | STA. 4+72, 28.5' RT. |
| STA. 4+72, 28' LT. | STA. 5+02, 28.5' RT. |
| STA. 5+52, 28' LT. | STA. 5+32, 28.5' RT. |
| STA. 5+82, 28' LT. | |

LEGEND

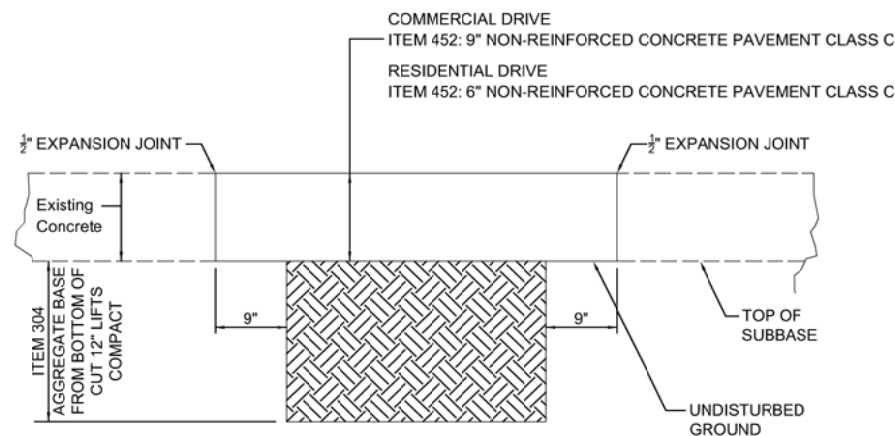
ITEM 661 - PLANTER AREA WITH 3" CALIPER GREEN VASE ZELKOVA

CONSTRUCTION LIMITS

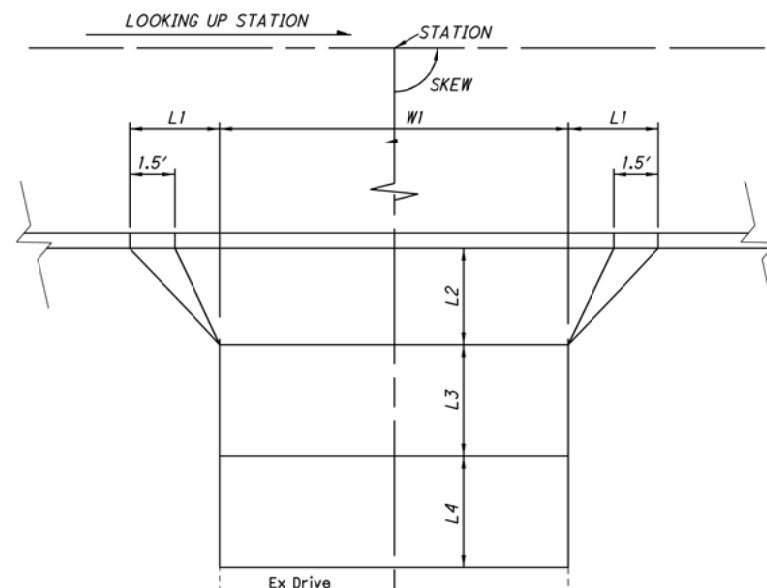
- NOTES:**
1. PRIOR TO INSTALLATION, REMOVE ALL EXISTING LAWN OR OTHER VEGETATION.
 2. REMOVE TOP 12" OF EXISTING SOIL.
 3. SPREAD 2" DEEP LAYER OF DECOMPOSED LEAF MULCH, AND TILL INTO TOP 4" OF EXISTING SUBGRADE.
 4. SPREAD AND "WATER-IN" PLANTING SOIL. DEPTH SHALL BE 12", AFTER WATERING-IN.
 5. SET ALL PLANTS IN TOPSOIL OR SO THEY BEAR THE SAME RELATION TO THE FINISH GRADE AS THEY DID TO THE NATURAL GRADE AT THE NURSERY.



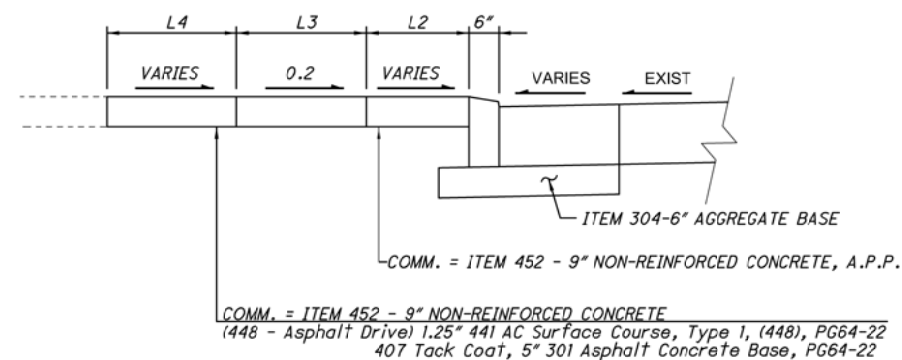
ROADWAY RESTORATION DETAIL
WITH CONCRETE BASE



CONCRETE DRIVEWAY RESTORATION DETAIL



PLAN



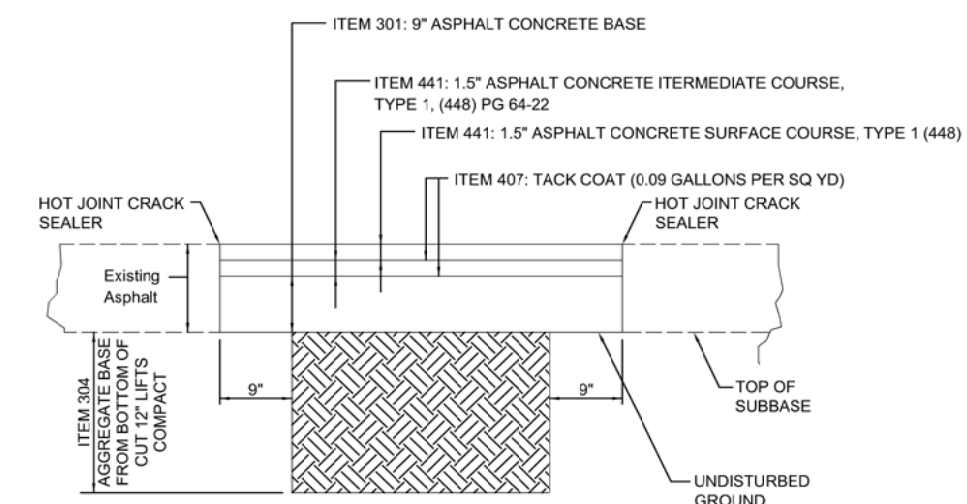
NOTES

- EXCAVATED MATERIAL MAY BE USED IF FOUND TO BE IN ACCEPTABLE CONDITION AS DETERMINED BY THE CITY ENGINEER.

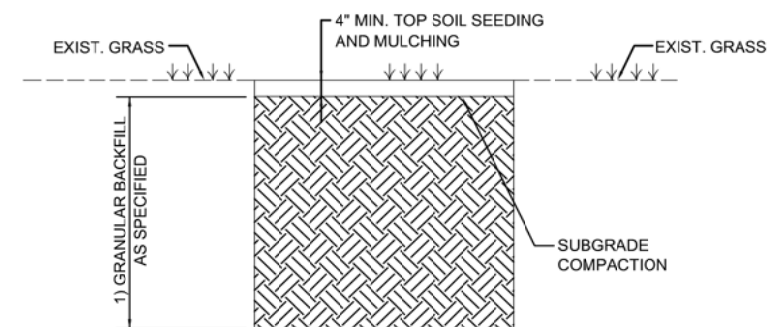
LAWN RESTORATION DETAIL

NOTE:

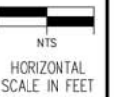
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DRIVE RESTORATION LOCATED BEYOND (L-3). (L-4) QUANTITY SHALL BE PAID FOR ONLY TO ADJUST DRIVE FOR PROFILE PURPOSES ONLY.



ROADWAY RESTORATION DETAIL
WITH ASPHALT BASE



REF. No.	STATION	SIDE	SKEW	L-1	L-2	L-3	L-4	W-1	452	448spec
									9" NON- REINFORCED CONCRETE PAVEMENT A.P.P.	ASPHALT DRIVE
									SY	SY
DR-1	5+76.5	RT	90°00'00"	4	4	5	4.6	26	41.6	
TOTALS CARRIED TO GENERAL SUMMARY									41.6	



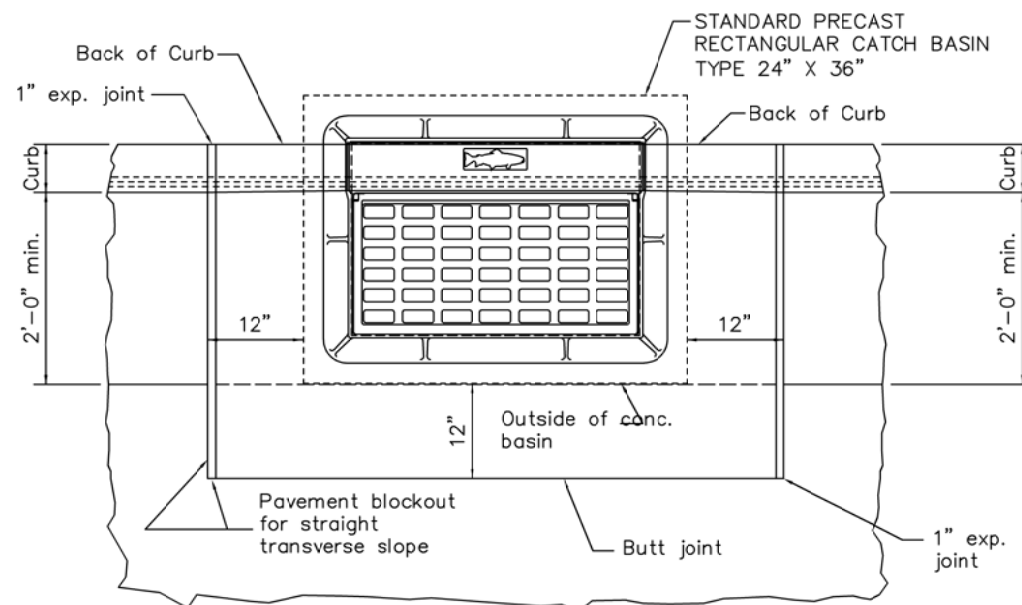
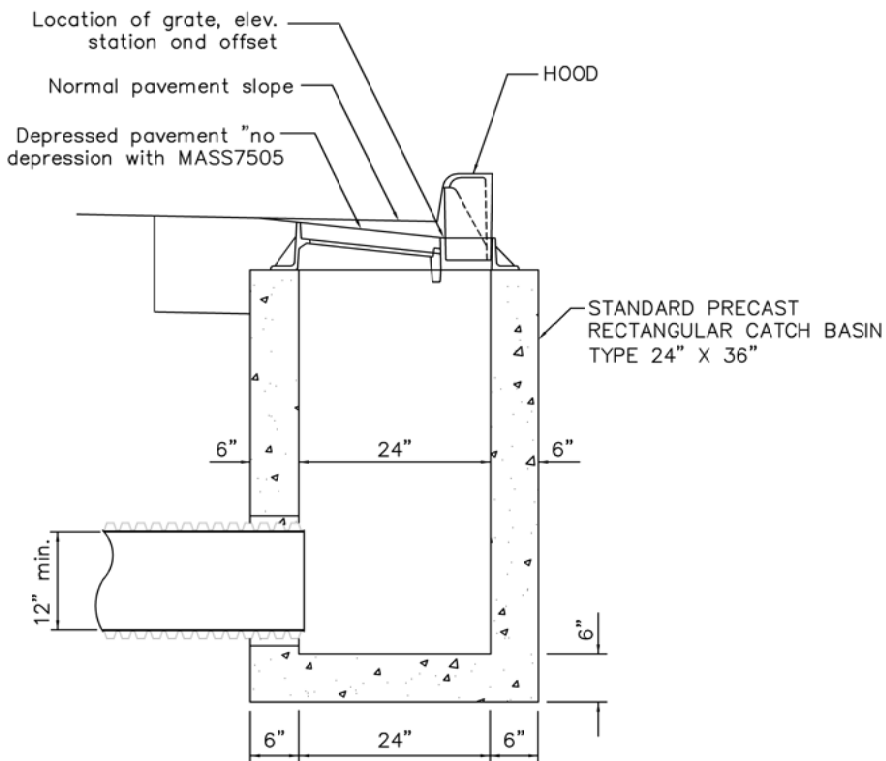
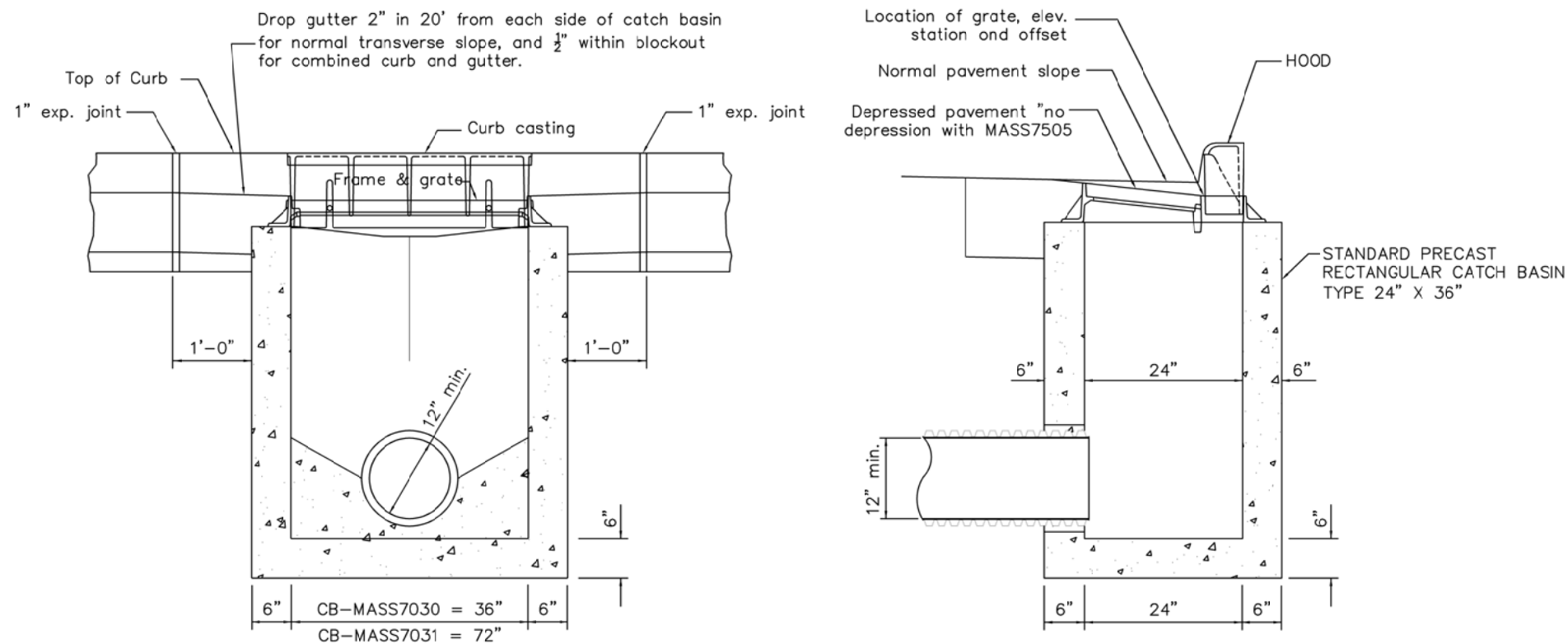
CHECKED BY: KAD
DATE: MAY, 2015
DRAWN BY: FPW
DATE: MAY, 2015

REVISIONS:	DESCRIPTION
DATE	

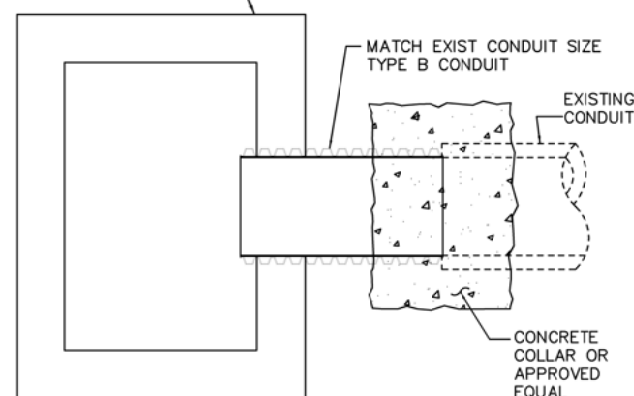
Erie St S Improvement STA 241 8.33 PID116456



DRAWING NAME: ErieStS-FvtDetl
CITY NUMBER: 22st04



STANDARD PRECAST
RECTANGULAR CATCH BASIN
TYPE 24" X 36"



REF NO.	STATION OFFSET	GRATE ELEVATION	10" INVERT	12" INVERT	15" INVERT
CB-1	1+88.80, 18.02' LT	942.50		939.42	
CB-2	1+87.54, 18.96' RT	942.55			940.63
CB-3	3+45.70, 23.33' LT	942.95			940.50
CB-4	4+22.58, 22.41' LT	942.95			940.87
CB-5	4+34.57, 26.5' RT	943.37			941.43
CB-6	5+45.08, 25.5' LT	943.30		940.52	
CB-7	5+58, 26.5' RT	943.40	940.33		

NOTE:

ALL MATERIALS AND LABOR INCLUDING COLLARS AND TYPE CONDUIT SHALL BE INCLUDED IN ITEM 611SPEC - CATCH BASIN TYPE MASS7030

GRATES: Two required. For details, see EJ 7030Z. provide Grate M2 unless the plans specifically require the bicycle safety grate.

CASTINGS: Provide a design essentially the same and equally as strong as the the one shown. Below is a list of approved EJ

Frame	=	7030 Z, 7031 Z, 7505
Grate	=	7030 M2, 7505
	=	7030 M3 for bicycle safety
Hood	=	7030 T1, 7505
	=	7030 T3 for drop curb areas

BEARING AREAS: Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

PRECAST CONSTRUCTION: Meet CMS 706.13 concrete requirements. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

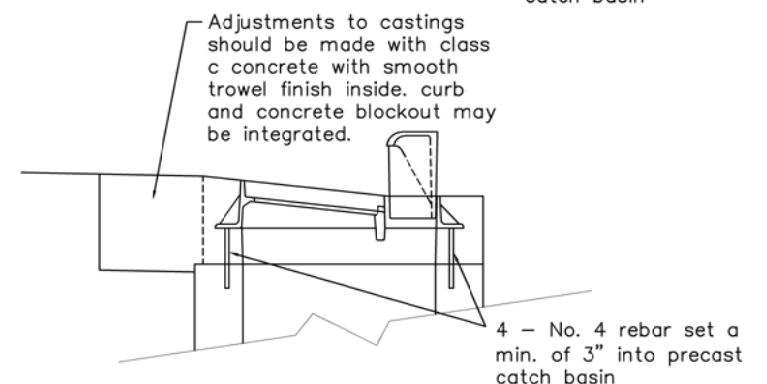
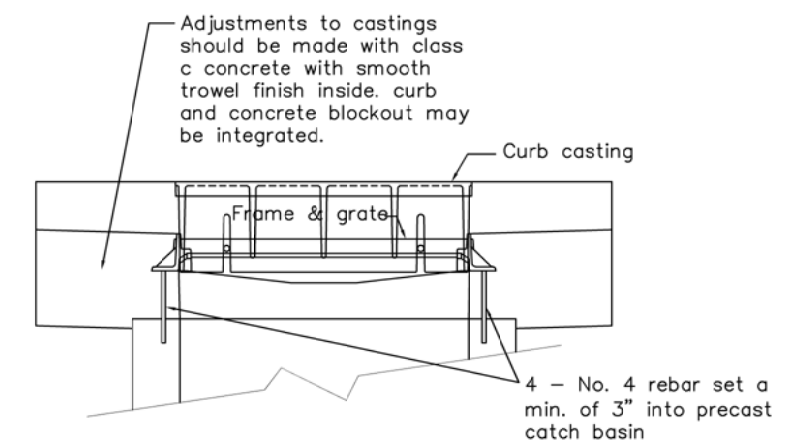
OPENINGS: Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement or gutter blackout. See SCD BP-2.2 for dowel details.

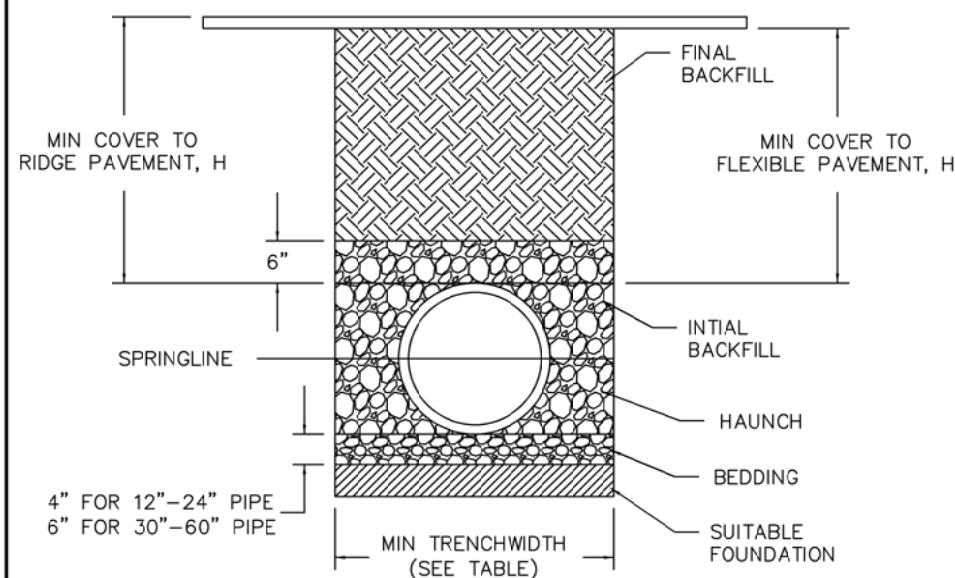
BLOCKOUT: Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blackout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611Spec - Catch Basin, Mass7030.

ADJUSTMENT: No brick shall be used to adjust castings height. See Adjustment detail this sheet.



CASTING ADJUSTMENT



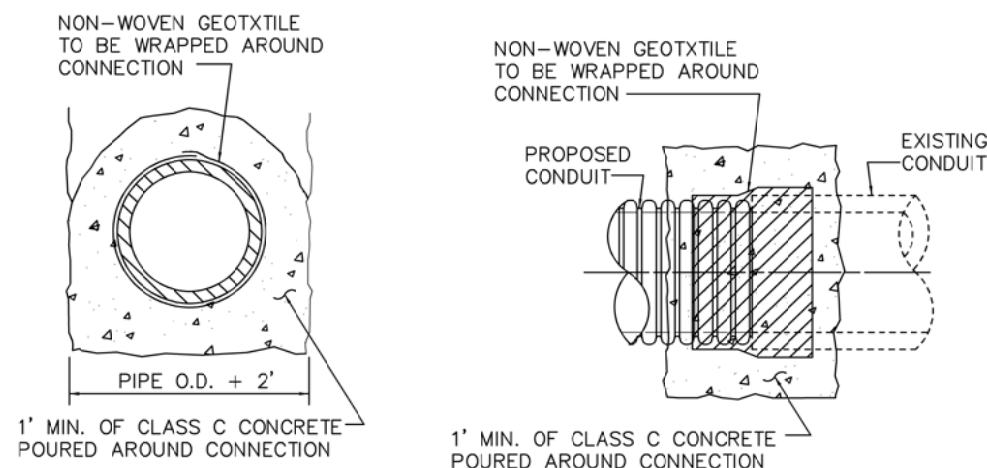
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21'
6"	23'
8"	26'
10"	28'
12"	30'
15"	34'
18"	39'
24"	48'
30"	56'
36"	64'
42"	72'
48"	80'
54"	88'
60"	96'

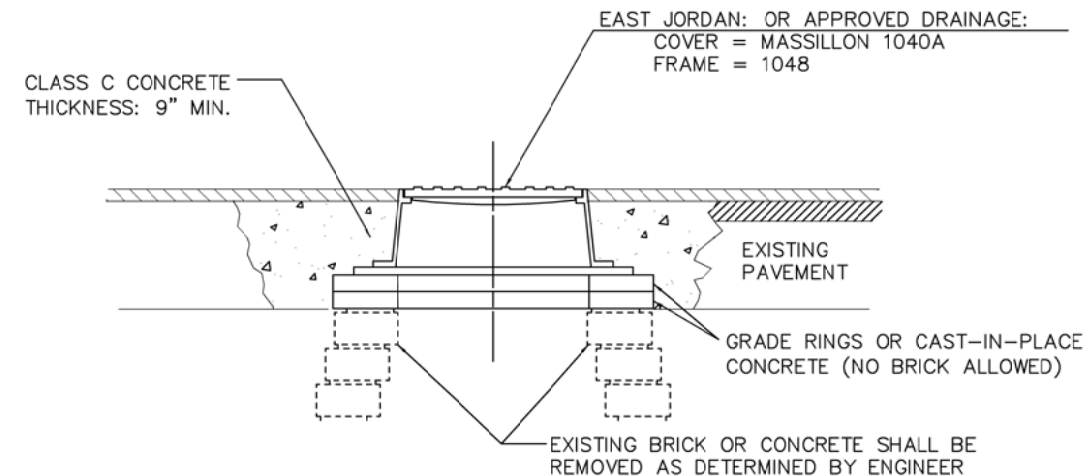
NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE APPLICATION", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, PER MANUFACTURERS AND ODOT ITEM 611 REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO THE GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54" TO 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIDGE PAVEMENT.

TRENCHING DETAIL FOR PIPE



CONCRETE COLLAR

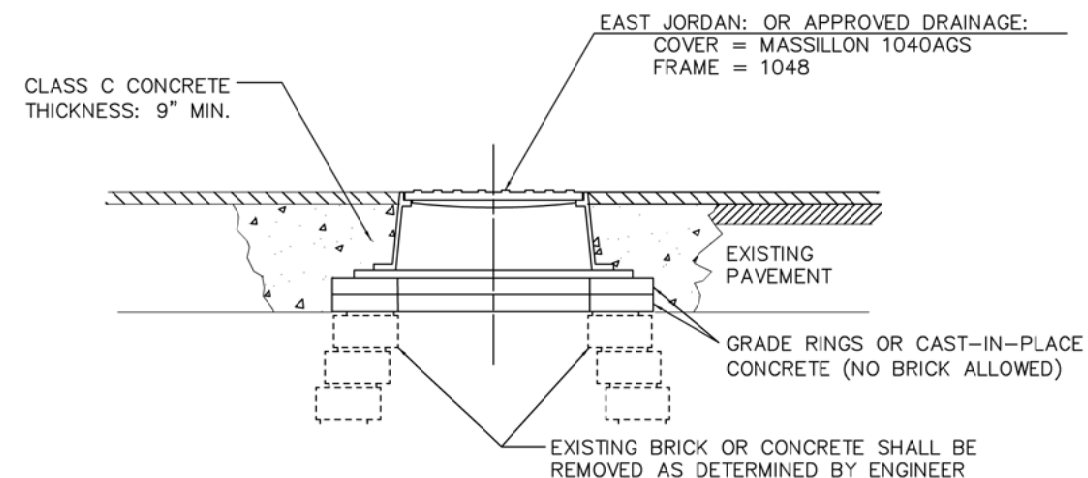


NOTES:

1. ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
2. WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

ITEM 611 DRAINAGE MANHOLE ADJUSTED, AS PER PLAN

REF NO.	STATION OFFSET	RIM ELEVATION
DA-1	1+91.49, 14.74' LT	FIELD SET
DA-2	3+65.50, 14.59' LT	FIELD SET
DA-3	3+74.01, 14.55' LT	FIELD SET
DA-4	5+55.55, 36.40' RT	FIELD SET

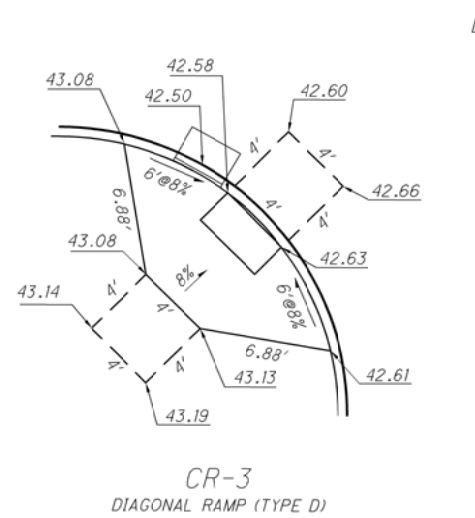
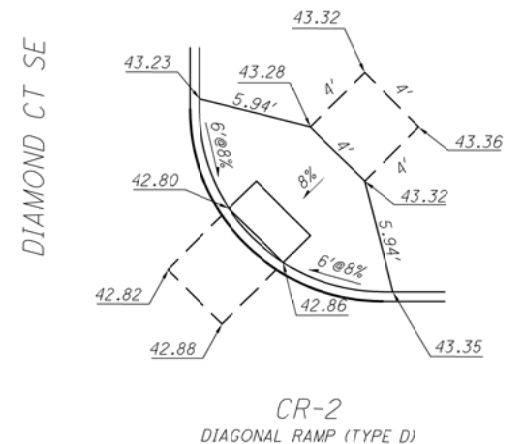
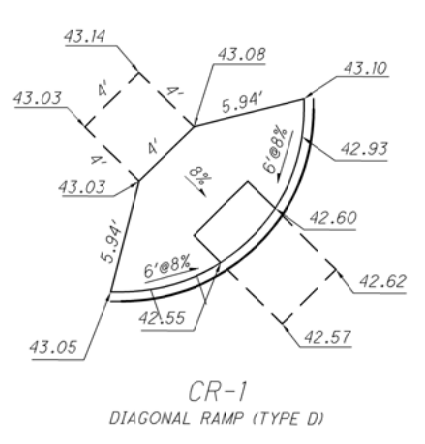


NOTES:

1. ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
2. WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

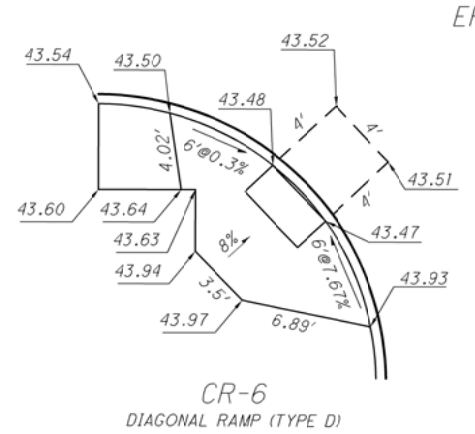
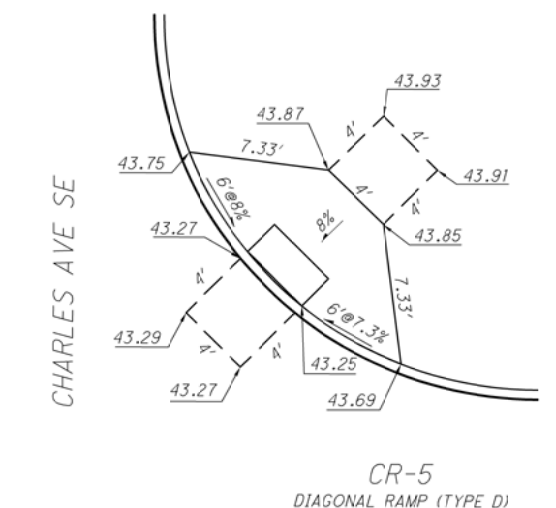
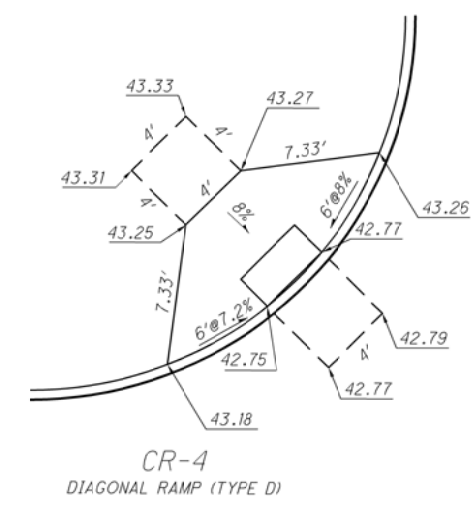
ITEM 611 SANITARY MANHOLE ADJUSTED, AS PER PLAN

REF NO.	STATION OFFSET	RIM ELEVATION
SA-1	3+67.23, 8.04' RT	FIELD SET
SA-2	3+84.19, 30.56' RT	FIELD SET



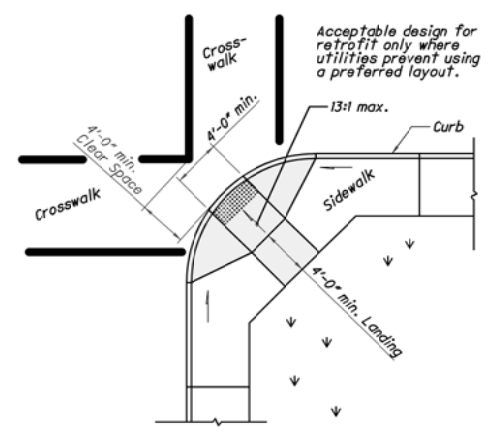
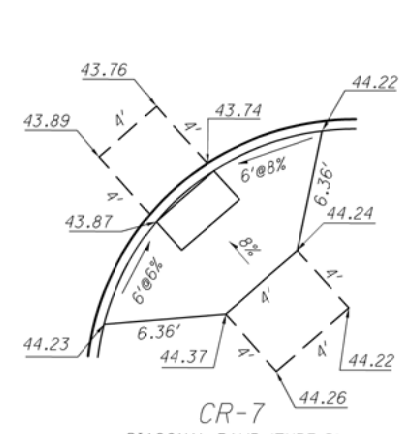
ERIE ST S

DIAMOND CT SW



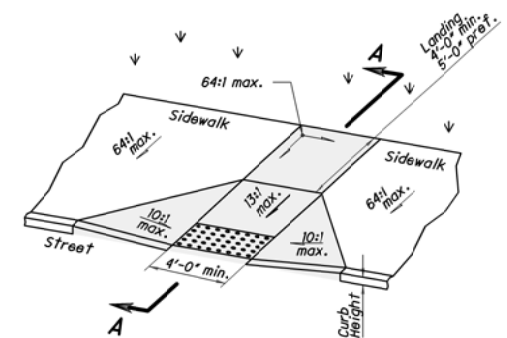
ERIE ST S

CHARLES AVE SW

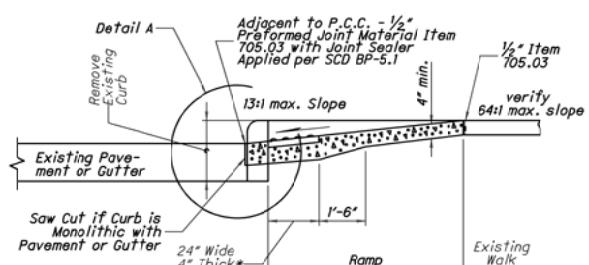
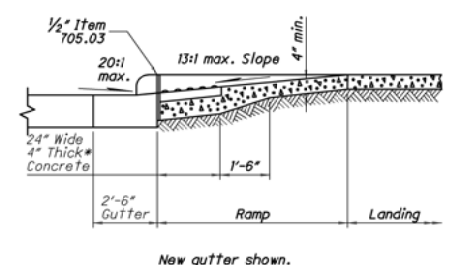


Use this design only for existing walks, and when site constraints prohibit other designs. The diagonal Type D ramp may be constructed as either a Perpendicular, Parallel or Combination curb ramp type.

DIAGONAL RAMP (Type D) ACCEPTABLE CONSTRUCTION PLACEMENT



Type A1 (Perpendicular with flared sides) PERPENDICULAR CURB RAMP DETAILS



NOTES

GENERAL: This drawing shows curb ramp types details and placement examples for curb construction, including the installation of detectable warnings.

Curb ramps added to an existing intersection or walk should be individually detailed on the project plans to assure that the design is appropriate for site constraints and all items can be constructed to ADA standards. The contractor may adjust the placement of curb ramps if existing field conditions warrant with the approval of the Engineer.

PAYMENT: Measure and pay for the ramp area within the shaded limits of this drawing as Item 608 Curb Ramp, Square Foot. This includes the cost of any curb or curb and gutter, detectable warnings, landing areas and any additional materials, installation, grading, forming, and finishing required within the shaded area.

Work beyond the shaded ramp/landing area is paid for as curb (609) and walk (608). Removal of existing curb, walk (or existing curb ramps) are paid under Item 202.

For at-grade crossing locations where only detectable warnings are required in order to achieve ADA compliance, measure and pay for the strip of detectable warnings as Item 608 Detectable Warning, Square Foot. The work to cost the tiles in place will also require removal of existing pavement (Item 202) to the nearest joint, or if no joint exists, a minimum of 4 feet.

The running slope of the curb ramp shall be a 13:1 maximum or flatter. In existing sidewalks, where the maximum ramp slope is not feasible due to site constraints (e.g. utility poles or vaults, right-of-way limits) it may be reduced as follows:

- A) 10:1 for a max. rise of 6".
- B) 8:1 for a max. rise of 3".
- C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.

To prevent chasing the grade indefinitely, the transition from existing sidewalk to the shaded curb ramp area is not required to exceed 15 feet in length.

While ramps may be skewed to the crosswalk, the entire lower landing area must fall within the cross walk that the ramp serves and cannot be located in the traveled lane of opposing traffic.

The counter slope of the gutter or street at the foot of a curb ramp, landing, or blended transitions shall be 20:1 or flatter.

The bottom edge of the ramp shall change planes perpendicular to the landing.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

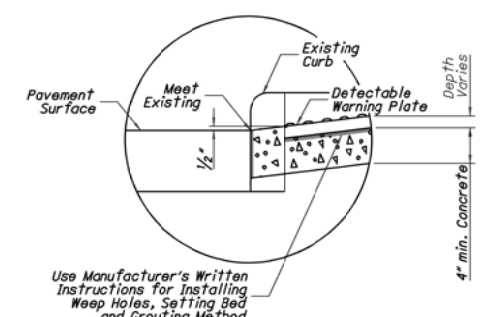
Ramp landings shall be 4' min. x 4' min. with a 64:1 or flatter cross slope and running slope.

DETECTABLE WARNINGS: Install Detectable Warnings on each curb ramp with approved materials. Install these proprietary products as per manufacturer's written instructions.

DRAINAGE: Contractor is to ensure the base of each constructed curb ramp allows for proper drainage, without exceeding allowable cross slope or ramp slopes. Vertical change in level exceeding 1/8" between the 1) pavement and gutter, and 2) gutter and ramp, are not allowed.

SURFACE TEXTURE: Texture concrete surfaces by coarse brooming transverse to the ramp slopes to be rougher than the adjacent walk.

JOINTS: Provide expansion joints in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. Provide a 1/2" Item 705.03 expansion joint filler around the edge of ramps built in existing concrete walks. Lines shown on this drawing indicate the ramp edges and slope changes, and do not necessarily indicate joint lines.



DETECTABLE WARNINGS NOTES

GENERAL: Detectable Warnings are a distinctive surface pattern of truncated domes which are detectable by cane or underfoot to alert people with vision impairments of their approach to streets and hazardous drop-offs.

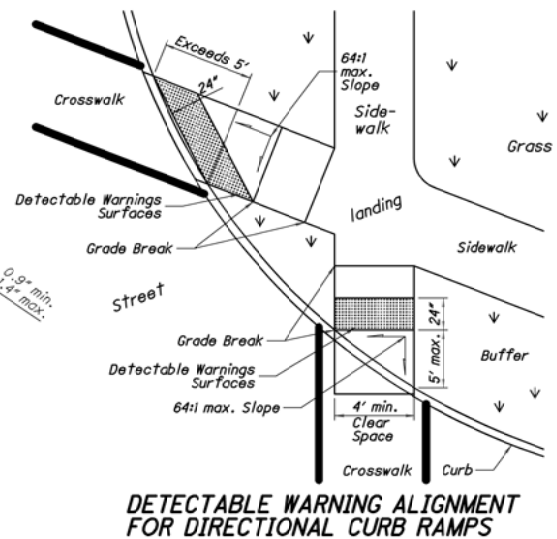
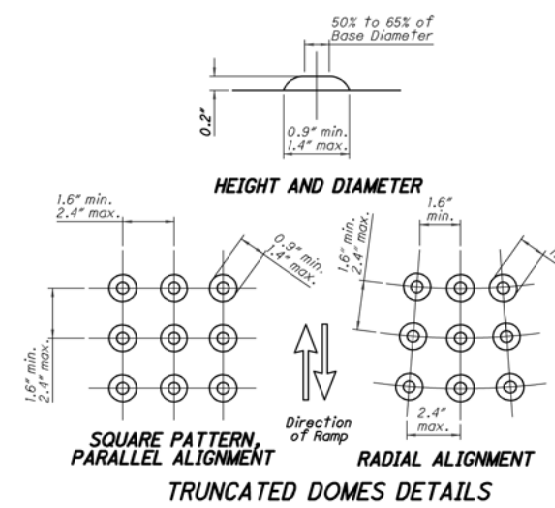
PLACEMENT: Detectable warnings are to be installed at any location where pedestrians might cross paths with vehicular traffic lanes, such as the base of curb ramps or at blended curbs. A 24" strip of domes is to be installed for the full width of the ramp or walk.

Some detectable warning products require a concrete border for proper installation. The concrete border should not exceed 2". Where the back of curb edge is tooled to provide a radius, the border dimension should be measured from the end of the radius.

The depth of concrete underneath detectable warning products shall be a minimum of 4". See DETAIL A.

ALIGNMENT: Truncated domes should be aligned with the primary direction of the ramp as shown on the DETECTABLE WARNING ALIGNMENT Detail. Normally the detectable warnings should be flush with the back of the curb, but for skewed conditions see DETECTABLE WARNING ALIGNMENT Detail. For non-standard layouts, detectable warning materials may have to be mitered and placed segmentally.

PRODUCTS & COLORS: Color of the detectable warnings should contrast with surrounding concrete walk and ramp. Black is not an acceptable color. Approved products and guidance on color may be found on the Office of Roadway Engineering Service's Detectable Warnings Approved List. Install products as per manufacturer's printed instructions.



CHECKED BY:

DATE: April, 2022

DRAWN BY: FPW

DATE: April, 2022

REVISE	DATE	DESCRIPTION

Erie St S Improvement STA 241 8.33 PID116456

Curb Ramp Details

City of Massillon

Stark County, Ohio

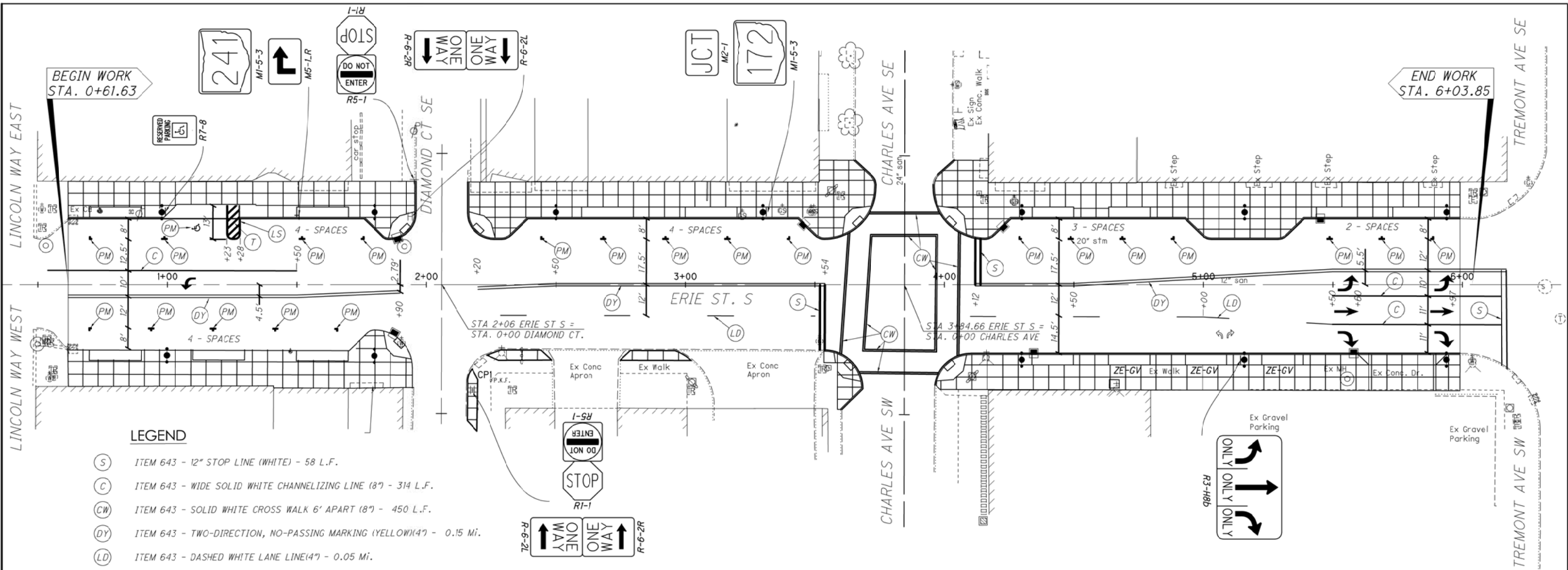
Massillon

City of Champions

DRAWING NAME: ErieStS-Grading

CITY NUMBER: 22st04

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LEGEND

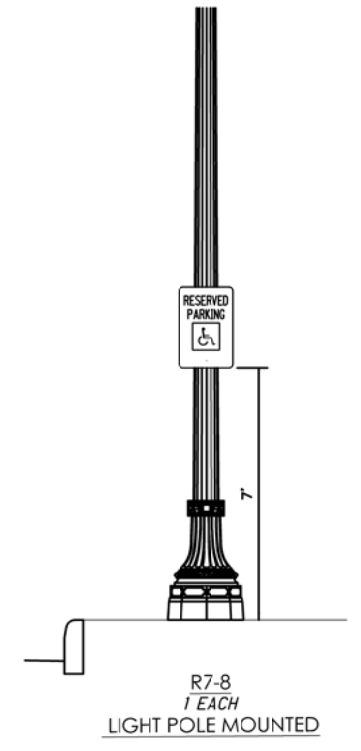
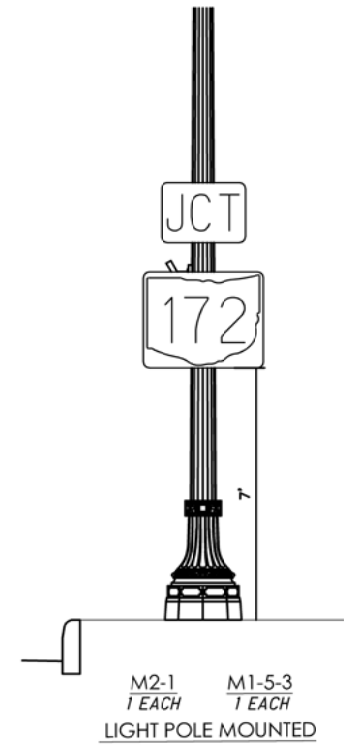
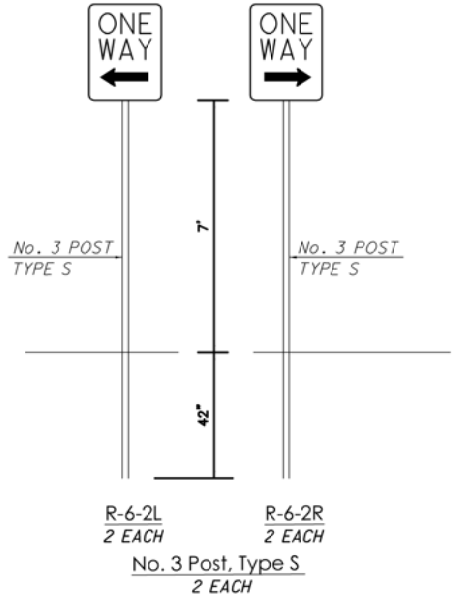
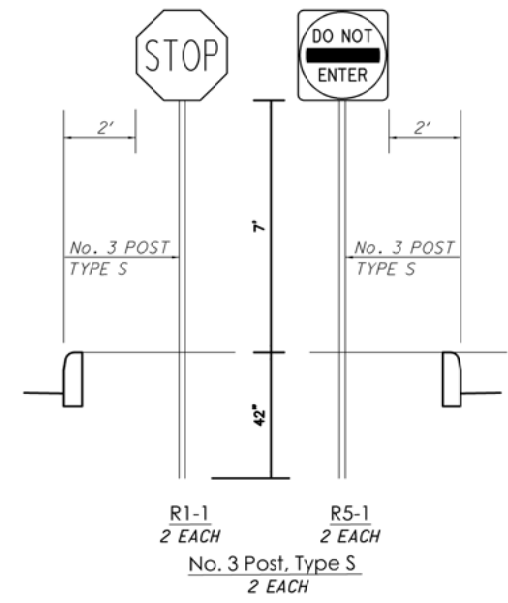
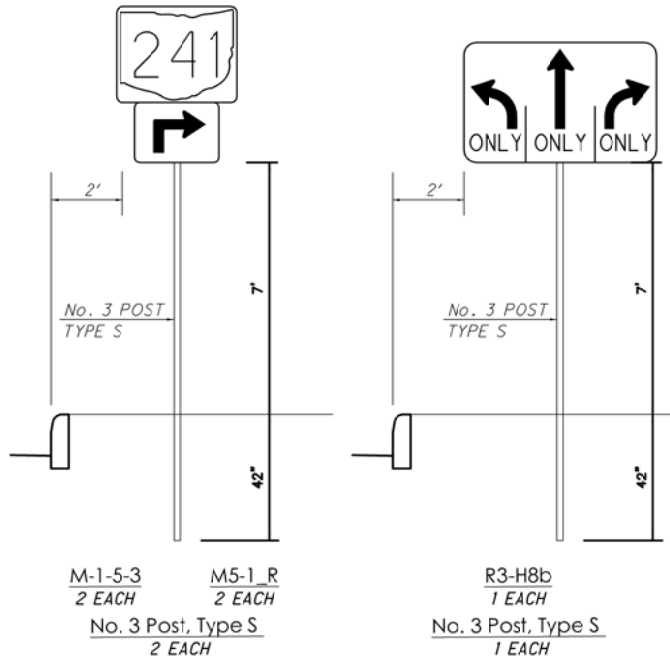
- (S) ITEM 643 - 12" STOP LINE (WHITE) - 58 L.F.
- (C) ITEM 643 - WIDE SOLID WHITE CHANNELIZING LINE (8") - 314 L.F.
- (CW) ITEM 643 - SOLID WHITE CROSS WALK 6' APART (8") - 450 L.F.
- (DY) ITEM 643 - TWO-DIRECTION, NO-PASSING MARKING (YELLOW)(4") - 0.15 Mi.
- (LD) ITEM 643 - DASHED WHITE LANE LINE(4") - 0.05 Mi.
- (LS) ITEM 643 - SOLID WHITE LANE LINE(4") - 0.05 Mi.
- (T) ITEM 643 - TRANSVERSE LINE (WHITE) (4") (2' SPACED) - 152 L.F.
- (PM) ITEM 643 - PAVEMENT MARKING, MISC.: ON STREET PARKING
- ↔↔↔ ITEM 643 - ARROWS (WHITE) - 7 Each
- ♿ ITEM 643 - HANDICAP MARKING - 1 Each

NOTE:

ALL MOUNTING HARDWARE AND INSTALLATION PER SCD TC-41.20, TC-41.40, TC-41.50, TC-41. TC-42.20. SHALL BE INCLUDE IN UNIT PRICE BID FOR ITEM 630SPEC -STREET SIGNS

ITEM 630SPEC - STREET SIGNS - 16 EACH

ITEM 630SPEC - GROUND MOUNTED SUPPORT, NO 3 POST, TYPE S - 7 EACH



VERTICAL SCALE: 1" = 20'

HORIZONTAL SCALE: 1" = 20'

CHECKED BY: _____

DATE: Jan., 2022

DRAWN BY: FPW

DATE: Jan., 2022

REVISIONS:	DATE	DESCRIPTION

Erie St S Improvement STA 241 8.33 PID116456

Signing and Striping Plan

City of Massillon

Stark County, Ohio

Kathy Calzavara-Perry, Mayor
Massillon
 City of Champions

DRAWING NAME:
 ErieStS-SignAndStriping
 CITY NUMBER:
 22st04

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