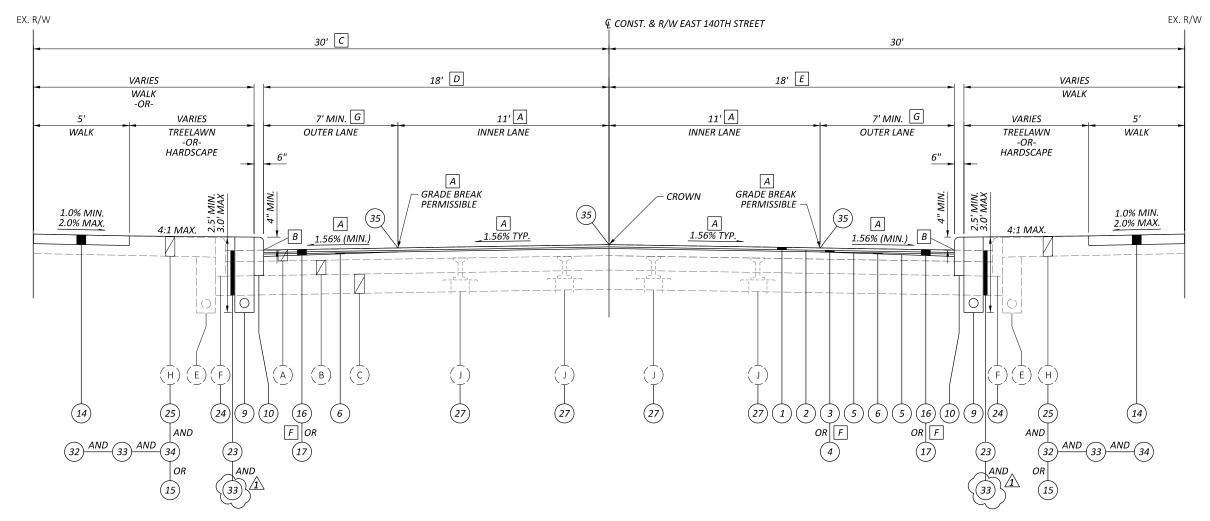
6	EXISTING LEGEND										
6	PROPOSED LEGEND										



FOR ADDITIONAL DETAILS, SEE PAVEMENT ELEVATION TABLES ON SHEETS 88 - 105.

4" WIDE GUTTER SEAL MATERIAL, SEE CITY OF CLEVELAND SCD ASPH-1

40' FROM STA. 48+79.26 TO STA. 51+27.30

PROPOSED SECTION - EAST 140TH STREET

STA. 14+61.41 TO STA. 42+14.31 = 2,752.90 LF STA. 48+79.26 TO STA. 66+22.66 = 1,743.40 LF STA. 68+38.97 TO STA. 72+15.00 = 376.03 LF

COIT AVENUE INTERSECTION TO ASPINWALL AVENUE INTERSECTION DEISE AVENUE INTERSECTION TO SOUTH WATERLOO INTERSECTION MCELHATTEN AVENUE INTERSECTION TO 57.5' NORTH OF OTHELLO AVENUE

TOTAL= 4,872.33 LF

STATION RANGE	WIDTH	STATION RANGE	<u>WIDTH</u>
STA. 15+72.57 TO STA. 17+65.00 STA. 17+65.00 TO STA. 17+86.00 STA. 17+86.00 TO STA. 18+60.00 STA. 18+60.00 TO STA. 18+81.00 STA. 18+81.00 TO STA. 20+74.00 STA. 20+74.00 TO STA. 20+95.00	18.0' 18.0 TO 20.0' 20.0' 20.0' TO 18.0' 18.0' 18.0' TO 20.0'	STA. 49+37.26 TO STA. 50+84.93 STA. 51+63.08 TO STA. 52+80.00 STA. 52+80.00 TO STA. 53+72.50 STA. 54+50.33 TO STA. 56+61.84 STA. 57+43.38 TO STA. 59+55.28	19.0' 19.0' TO 18.0' 18.0' 18.0' 19.0'
STA. 20+95.00 TO STA. 22+27.00 STA. 22+27.00 TO STA. 22+48.00 STA. 22+48.00 TO STA. 28+44.10	20.0' 20.0' TO 18.0' 18.0'	STA. 60+28.40 TO STA. 62+54.43 STA. 63+20.43 TO STA. 65+13.00 STA. 65+13.00 TO STA. 65+49.00	20.0' 20.0' 20.0' to 21.8'
STA. 29+09.43 TO STA. 31+09.00 STA. 31+09.00 TO STA. 31+30.00 STA. 31+30.00 TO STA. 31+35.00 STA. 31+35.00 TO STA. 31+56.00 STA. 31+56.00 TO STA. 33+74.62	18.0' 18.0 TO 20.0' 20.0' 20.0' TO 18.0' 18.0'	STA. 68+97.50 TO STA. 70+57.00 STA. 70+57.00 TO STA. 71+29.48 STA. 71+85.48 TO STA. 72+10.00 STA. 72+10.00 TO STA. 72+15.00	21.5' TO 13.0' 13.0' 15.0' 15.0' TO 20.0'
STA. 34+38.04 TO STA. 36+51.00 STA. 36+51.00 TO STA. 36+72.00 STA. 36+72.00 TO STA. 36+77.00 STA. 36+77.00 TO STA. 36+88.00 STA. 36+88.00 TO STA. 38+67.00 STA. 38+67.00 TO STA. 39+17.00 STA. 39+17.00 TO STA. 41+33.92	18.0' 18.0' TO 20.0' 20.0' 20.0' TO 19.0' 19.0' TO 20.0' 20.0'		

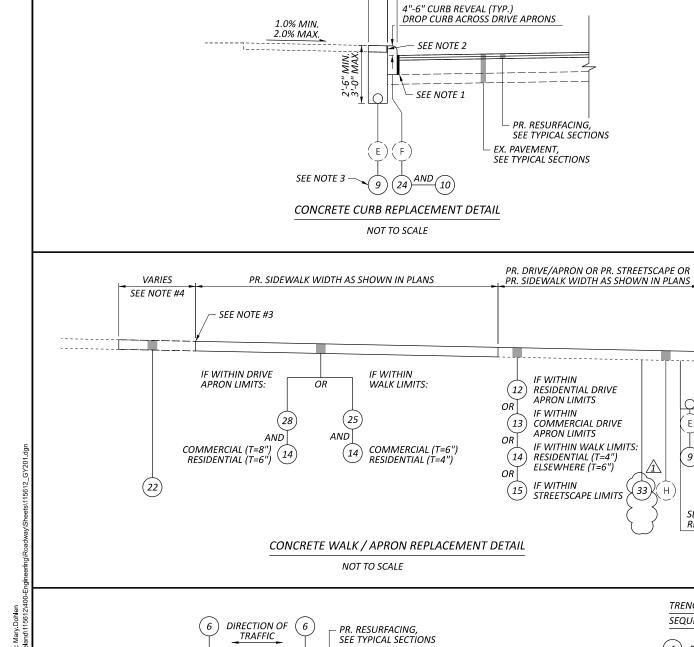
Ε	STATION RANGE	WIDTH
	STA. 15+05.69 TO STA. 26+58.59	18.0'
	STA. 27+16.11 TO STA. 34+14.00 STA. 34+14.00 TO STA. 34+58.00 STA. 34+58.00 TO STA. 36+19.00 STA. 36+19.00 TO STA. 36+72.00 STA. 36+72.00 TO STA. 39+40.00 STA. 39+40.00 TO STA. 40+40.00 STA. 40+40.00 TO STA. 41+53.51	18.0' 18.0' TO 19.0' 19.0' 19.0' TO 18.0' 18.0' 18.0' TO 20.0' 20.0'
	STA. 48+79.26 TO STA. 59+65.00	18.0'
	STA. 60+39.87 TO STA. 61+95.00 STA. 61+95.00 TO STA. 62+95.00 STA. 62+95.00 TO STA. 63+54.81	18.0' 18.0' TO 21.0' 21.0'
	STA. 64+10.84 TO STA. 64+98.78	21.0'
	STA. 68+38.97 TO STA. 70+06.52	NO CURB REPLACEMENT, MATCH FXISTING
	STA. 70+68.32 TO STA. 72+15.00	20'

F	STATION RANGE	ITEM
	STA. 14+61.41 TO STA. 34+38.04 STA. 34+38.04 TO STA. 42+24.19 STA. 48+79.26 TO STA. 64+94.41 STA. 68+43.41 TO STA. 72+15.48	3 & 16 4 & 17 4 & 17 4 & 17

THE WIDTH OF THE OUTER LANE IS EQUAL TO THE DIFFERENCE BETWEEN THE WIDTH OF ONE SIDE OF THE ROADWAY (CENTERLINE TO EDGE OF PAVEMENT, REFER TO NOTES D AND E ON THIS SHEET) AND THE INNER LANE (VARIES, SEE PAVEMENT ELEVATION TABLES).

Michael Baker

JTH MKD 10/21/22 115612



DOWELS REQUIRED

12" MAX.

PER CITY SCD CONC-1

EXTEND PAVEMENT REPLACEMENT 2' BEYOND TRENCH LINE (TYP.)

UY-EAST 140TH STREETSCAPE

DIRECTION S

EX. PAVEMENT,

SEE TYPICAL SÉCTIONS

ITEM 305 - 9" (MIN.) CONCRETE BASE, AS PER PLAN

ITEM 304 - 6" (MIN.) AGGREGATE BASE, AS PER PLAN

CLEVELAND LSM (WATER WORK ONLY) - OR -

BACKFILL PER ODOT 611 (DRAINAGE ONLY)

BEDDING, PIPE ENCASEMENT

PER UTILITY SPECIFICATIONS

PIPE BEDDING PER ODOT 611

(WATER WORK ONLY) - OR

(DRAINAGE ONLY)

WIDTH OF TRENCH

TRENCH & PAVEMENT RESTORATION DETAIL

ASPHALT ON CONCRETE OR BRICK BASE NOT TO SCALE

FINISH TO THE SAME THICKNESS AS THE EXISTING BASE MATERIAL

JOINTS SHALL BE SAWED TO MATCH THOSE IN ADJACENT PAVEMENT.

SEE WALK / APRON REPLACEMENT DETAIL

NOTES:

- 1. 3/4" PREFORMED JOINT MATERIAL PER CMS 705.03 RECESSED 1/2" AND FILLED WITH 4" WIDE HOT-APPLIED CRACK SEALANT PER CMS 423 & 705.04.
- 2. 1/2" PREFORMED JOINT MATERIAL PER CMS 705.03 RECESSED 1/2" AND FILLED WITH 1/2" JOINT SEALER PER CMS 705.04.
- 3. THE CONTRACTOR SHALL INSTALL 6" UNDERDRAINS AT LOCATIONS OF CURB REPLACEMENT ALONG THE CORRIDOR. THE UNDERDRAINS SHALL BE CONSTRUCTED SO AS TO MATCH THE LOCATION AND TIE INTO THE EXISTING UNDERDRAIN TO REMAIN.

CROSS REFERENCES										
6	EXISTING LEGEND									
6	PROPOSED LEGEND									

NOTES:

- 1. 3/4" PREFORMED JOINT MATERIAL PER CMS 705.03 RECESSED 1/2" AND FILLED WITH 4" WIDE HOT-APPLIED CRACK SEALANT PER CMS 423 & 705.04.
- 2. 1/2" PREFORMED JOINT MATERIAL PER CMS 705.03 RECESSED 1/2" AND FILLED WITH 1/2" JOINT SEALER PER CMS 705.04.
- 3. SAWCUT NEAT AND STRAIGHT PER ODOT ITEM 255 (COST INCLUDED WITH PERTINENT REMOVAL ITEM).
- 4. PAVED AREAS BEHIND PROPOSED DRIVES AND WALKS MAY REQUIRE REPAIR AFTER THE INSTALLATION OF THE PROPOSED DRIVE OR WALK. REPAIRS WILL BE DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY FOR THESE REPAIRS IS PROVIDED ON THE GENERAL SUMMARY.
- 5. PERFORM WALK/APRON REPAIR PER THE LIMITS DEPICTED ON THE PLANS. WALK/APRON REPAIR LIMITS SHALL EXTEND FURTHER TO THE NEAREST EXISTING TRANSVERSE JOINT, AS DIRECTED BY THE ENGINEER.
- 6. DIVIDE THE SURFACE OF THE WALK INTO EQUALLY SPACED RECTANGULAR BLOCKS AT INTERVALS NO SMALLER THAN 4-FEET.
- SIDEWALK AND DRIVE APRONS WILL BE REPLACED AT LOCATIONS SHOWN ON THE PLANS. THE SLOPE IN THE WALK AREA OF DRIVE APRONS SHALL NOT EXCEED 0.0156 CROSS SLOPE.
- 8. CONSTRUCT DRIVEWAY, IF APPLICABLE, PER CITY SCD CD-1.

TRENCH & PAVEMENT RESTORATION SEQUENCE OF CONSTRUCTION

- SEE NOTE #2

- SEE NOTE #1

- PERFORM INITIAL FULL DEPTH PAVEMENT
 SAWCUTS EQUAL TO OR GREATER THAN
 PIPE SIZE PLUS ONE FOOT ON EACH SIDE
 OF PIPE.
- 2) REMOVE PAVEMENT & EXCAVATE TO PIPE DEPTH.
- 3 PLACE PIPE W/OWNER-SPECIFIED BEDDING UP TO 12" ABOVE TOP OF PIPE. (WATER WORK ONLY) PLACE PIPE BEDDING PER ODOT 611. (DRAINAGE ONLY)
- 4 PLACE LSM. (WATER WORK ONLY) PLACE BACKFILL PER ODOT 611. (DRAINAGE ONLY)
- 5) PLACE 304 AGGREGATE BASE.
- 6) PERFORM 2 FT OVERCUT (SECOND SAWCUT OPERATION) ON EACH SIDE OF TRENCH.
- (7) COMPACT SUBBASE.

8 PLACE HOOK BOLTS OR DOWEL BARS AS REQUIRED.

9 PLACE PAVEMENT.

10 PLACE ASPHALT IN LIFTS WITH ADJACENT PAVEMENT.

(11) SEAL JOINTS.

NOTE:

1. PAVEMENT REMOVAL, CONCRETE
BASE AND AGGREGATE WITHIN
TRENCH RESTORATION LIMITS ARE
INCIDENTAL TO WATER WORK AND
DRAINAGE ITEMS.

PR. RESURFACING
SEE TYPICAL SECTIONS

PAVEMENT,
SEE TYPICAL
SECTIONS

PAVEMENT RESTORATION
PER ITEM 255 - FULL
DEPTH PAVEMENT
REMOVAL AND RIGID
REPLACEMENT, CLASS
QC1, AS PER PLAN PAID
INCIDENTAL TO CONDUIT
ITEM (SEE NOTE 1)

WIDTH OF TRENCH PAVEMENT RESTORATION DETAIL

* O.D. = OUTSIDE DIAMETER OF PIPE IN FEET

DESIGNER
JTH

MKD 10/21/22
PROJECT ID
115612

17 298

+. 5.03 RECESSED 1/2" AND FIL 255 (COST INCLUDED WITH I WALKS MAY REQUIRE REPAIF

3. SAV

L EX. PAVEMENT,
SEE TYPICAL SECTIONS

PR. RESURFACING,

SEE TYPICAL SECTIONS

SEE CONCRETE CURB
REPLACEMENT DETAIL

(10)

AND

(9)(24)

LS

32 AM **CUY-EAST**

ROADWAY (CONTINUED)

ITEM 608 - CURB RAMP, AS PER PLAN

UNDER THIS PAY ITEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND CONSTRUCTING AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT CURB ITEM. RAMPS AND LANDINGS THAT CONFORM TO THE CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS.

CURB RAMPS SHALL INCLUDE DETECTABLE WARNING CONSISTING OF TRUNCATED DOME TILES TINTED BRICK RED AND CONFORMING TO 712.14 AND THE CITY OF CLEVELAND 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.

CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS, TYPE I THROUGH TYPE 11, 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. IF THE CONTRACTOR BUILDS A CURB RAMP THAT DOES NOT MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL REMOVE AND REPLACE IT TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.

PAYMENT SHALL BE BASED ON MEASURED SQUARE FEET FOR CURB RAMP AREAS AS INDICATED ON CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT THE NEW CURB RAMP, COMPLETE IN PLACE. PAYMENT INCLUDES EXISTING RAMP/SIDEWALK REMOVALS, SURVEYING, CONSTRUCTION LAYOUT, FORM WORK, REPLACEMENT OF 2" SCREENINGS BED, PLACEMENT OF CONCRETE SIDEWALK AND CURB FOR NEW RAMP, AND PLACEMENT OF NEW DETECTABLE WARNING STRIPS WITHIN THE PROPOSED RAMP AREAS.

ALL SAWCUTTING, APPURTENANCES, AND OTHER WORK NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP IS CONSIDERED INCIDENTAL TO THIS ITEM, INCLUDING THE 8" CONCRETE THICKNESS ON THE SIDEWALK PANELS ADJACENT TO THE CURE WITHIN THE INTERSECTION RETURN AREA, FROM PC TO PI, AND AS SHOWN ON THE CITY OF CLEVELAND STANDARD DRAWINGS. 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 I. CURB RAMPS AT INTERSECTION CORNERS AND AT MIDBLOCK/T-INTERSECTION LOCATIONS ARE SHOWN ON THE PLANS FOR ESTIMATING PURPOSES, WORK BEYOND THE LIMITS OF THE CURB RAMP AREA SHALL BE PAID UNDER SEPARATE PAY ITEMS.

CURB RAMPS HAVE BEEN SHOWN SCHEMATICALLY TO REPRESENT CURB RAMP TYPE THAT SHOULD BE USED DUE TO ADA ACCESSIBLE ROUTE DIMENSIONS AND DISTANCE FROM FACE OF CURB TO RIGHT OF WAY. DUE TO THE FACT THAT THE CURB RAMP ELEVATIONS AND DIMENSIONS ARE NOT INCLUDED, THE REQUIRED FOOTPRINT TO PROVIDE THE MINIMUM LANDING DIMENSIONS AND NOT EXCEED THE ALLOWABLE SLOPES MAY DIFFER FROM THE CURB RAMPS SHOWN WITHIN THE PLANS AND MAY REQUIRE ADDITIONAL CURBS INTEGRAL TO THE SIDEWALK. THE CONTRACTOR SHALL BUILD CURB RAMPS AT EACH LOCATION SHOWN IN THE PLANS THAT ADHERE TO THE REQUIREMENTS OF ONE OF CURB RAMP DESIGNS IN THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING CR-1.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN CASES WHERE THE CURB RAMP FOOTPRINT DIFFERS FROM THE PLAN.

ITEM 608 - CURB RAMP, AS PER PLAN

250 SF

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN ITEM 608 - 6" CONCRETE WALK, AS PER PLAN ITEM 608 - 8" CONCRETE WALK, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 608, THE FOLLOWING SHALL APPLY:

ALL CONCRETE SHALL BE MINIMUM OF 4", 6" OR 8" (RESPECTIVELY) AND HAVE A 2" COMPACTED SCREENING BED WHICH MEETS THE REQUIREMENTS OF 703.10 (LIMITED TO CRUSHED STONE). THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO SAWCUT, REMOVE EXISTING WALK, EXCAVATE, PLACE AND COMPACT SCREENINGS BED, LAYOUT AND FORM WORK, AND PLACEMENT OF NEW CONCRETE WALK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, ITEM 608 - 6" CONCRETE WALK, AS PER PLAN OR ITEM 608 - 8" CONCRETE WALK, AS PER PLAN.

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN (CONTINUED) ITEM 608 - 6" CONCRETE WALK, AS PER PLAN (CONTINUED) ITEM 608 - 8" CONCRETE WALK, AS PER PLAN (CONTINUED)

PER 608.03(C), IT IS REQUIRED THAT 1/2 INCH THICK EXPANSION JOINT MATERIAL (705.03) BE INSTALLED BETWEEN THE WALK AND BACK OF CURB OR ANY OTHER FIXED OBJECT, IN ADDITION TO THE LOCATIONS SPECIFIED UNDER 608.03(C). TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EXPANSION JOINT FILLER (705.03) SHALL BE PLACED AT THE TRANSVERSE EXPANSION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE TOP 1/2 INCH OF THE EXPANSION JOINT PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH 705.04 JOINT SEALER.

UNLESS OTHERWISE REQUIRED BY MUNICIPAL STANDARDS/ORDINANCES. THE FINAL SURFACE 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. (I.E. PICTURE FRAME).

THE COST OF THE MATERIAL AND LABOR ASSOCIATED WITH THE ABOVE WORK IS INCLUDED IN THE CONTRACT UNIT BID PRICE FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, ITEM 608 - 6" CONCRETE WALK, AS PER PLAN AND ITEM 608 - 8" CONCRETE WALK, AS PER PLAN.

ADDITIONAL SIDEWALK REPLACEMENT

FOR LOCATIONS WHERE EXISTING WALK NOT ITEMIZED FOR REPLACEMENT IS IN POOR CONDITION OR IS NOT ADA COMPLIANT, THE CONTRACTOR MAY BE FIELD DIRECTED TO INSTALL ADDITIONAL WALK AND BEYOND THE QUANTITIES ITEMIZED ON THE PLAN SHEETS. THE FOLLOWING QUANTITEIS ARE INCLUDED IN THE GENERAL SUMMARY FOR THAT PURPOSE:

(ITEM 202 - WALK REMOVED, AS PER PLAN	12210 SF
TITEM 202 - REMOVAL MISC.: PAVEMENT REMOVED FOR DRIVES	100 SY
> ITEM 608 - 4" CONCRETE WALK, AS PER PLAN	3800 SF 🔇
│ ITEM 608 - 6" CONCRETE WALK, AS PER PLAN	2650 SF 🔵
(ITEM 608 - 8" CONCRETE WALK, AS PER PLAN	750 SF
\setminus \wedge	\wedge \wedge \wedge \wedge \wedge \wedge

ITEM SPECIAL - RETAINING WALL AND HANDRAIL REMOVED AT MCELHATTEN

REMOVE THE FULL LIMITS OF THE RAILING AND WALL AT THE NORTHWEST CORNER OF EAST 140TH AND MCELHATTEN PER ITEM 202. REGRADE THE SURROUNDING AREA AT A MAXIMUM GRADE OF 3:1 AND PER THE ELEVATIONS INDICATED ON THE INTERSECTION DETAILS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AS FULL COMPENSATION FOR ALL WORK NECESSARY TO REMOVE AND REGRADE THIS AREA:

ITEM SPECIAL - RETAINING WALL AND HANDRAIL REMOVED AT MCELHATTEN LS

EXISTING PAVEMENT DISPOSAL/CASTING ADJUSTMENT

IN AREAS WHERE FULL DEPTH PAVEMENT REPAIR IS PERFORMED, THE EXISTING ASPHALT PAVEMENT WEARING COURSE, BRICK BASE AND CONCRETE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ONCE THE WEARING COURSE, BRICK, AND CONCRETE ARE REMOVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST CASTINGS TO GRADE AS SHOWN IN THE PLANS.

FOR AREAS OF RESURFACING ONLY, THE EXISTING ASPHALT PAVEMENT WEARING COURSE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ONCE THE WEARING COURSE IS REMOVED, CASTINGS ARE TO REMAIN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DELINEATE ANY CASTINGS THAT MAY PROTRUDE ABOVE THE EXISTING CONCRETE BASE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT MATERIAL IN THE VICINITY OF THESE CASTINGS TO PROVIDE AN ADEQUATE RAMP AROUND THE CASTINGS IMMEDIATELY AFTER THE INSTALLATION OF THE ASPHALT CONCRETE INTERMEDIATE COURSE. FINAL SURFACE COURSE SHALL BE PLACED ONLY AFTER ALL CASTING ADJUSTMENTS ARE COMPLETE. IN NO CASE SHALL THE CASTING REMAIN EXPOSED WITHOUT PROPER PROTECTION.

THE FOLLOWING QUANTITIES ARE TO BE USED FOR STREET CASTINGS AS DIRECTED BY THE ENGINEER:

ITEM 611 - MANHOLE, MISC.: VAULT/MANHOLE ADJUSTED TO GRADE (CPP) ITEM SPECIAL - MISCELLANEOUS METAL

35 FACH 2,500 LB

ITEM 203 - ROADWAY, MISC.: PRE-CONSTRUCTION AUDIO-VIDEO

PRIOR TO THE DELIVERY OF ANY MATERIALS OR SUPPLIES TO THE SITE OF ANY WORK. OR TO THE BEGINNING OF ANY OF THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PROVIDE PRE-CONSTRUCTION AUDIO-VIDEO TAPING FOR THE PURPOSE OF ESTABLISHING THE SURFACE CONDITIONS EXISTING IN ALL AREAS AFFECTED BY THE WORK. VIDEO TAPING SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, DRIVEWAY, DRIVEWAY APRON, AND BASEMENT WINDOW, ESPECIALLY THE AREA WHERE A TEMPORARY CONNECTION MIGHT BE MADE OR WHERE A TEMPORARY HOSE MIGHT GO THROUGH A BASEMENT WINDOW. TWO PASSES IN EACH DIRECTION ARE REQUIRED TO COMPLETE THIS ACTIVITY: ONE FOCUSING ON RIGHT-OF-WAY AND ONE FOCUSING ON PRIVATE

THE PRE-CONSTRUCTION VIDEOGRAPHY SHALL BE PERFORMED BY AN INDEPENDENT COMPANY HAVING PREVIOUS EXPERIENCE IN SIMILAR TYPES OF WORK. THE CONTRACTOR SHALL PROVIDE ONE COPY OF THE PRE-CONSTRUCTION VIDEO TO ODOT AND ONE COPY TO THEMSELVES. THE FULL COST OF FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THE REQUIRED AUDIO-VIDEO TAPING AS DESCRIBED HEREIN SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM BID FOR ITEM SPECIAL - ROADWAY, MISC.: PRE-COUNSTRUCTION AUDIO-VIDEO.

ITEM 203 - ROADWAY, MISC.: PRE-CONSTRUCTION AUDIO-VIDEO

ITEM 203 - ROADWAY, MISC.: RAILROAD INSURANCE PREMIUM

CONTRACTOR SHALL OBTAIN AND MAINTAIN AN INSURANCE POLICY IN ACCORDANCE WITH THE SPECIAL PROVISION, INSURANCE REQUIREMENTS FOR PUBLIC PROJECTS.

ITEM 203 - ROADWAY, MISC.: RAILROAD INSURANCE PREMIUM LS

ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN

WHERE MONUMENT ASSEMBLIES ARE BOTH SUITABLE FOR RE-USE AND CONFORM TO CITY OF CLEVELAND STANDARD DRAWING MB-1C, THEY SHALL BE ADJUSTED TO GRADE AS REQUIRED AND SPECIFIED. SUCH ADJUSTMENTS SHALL BE PERFORMED BY THE CONTRACTOR'S USE OF COMPETENT PERSONNEL AND SUITABLE EQUIPMENT WITH SAID WORK DONE UNDER THE SUPERVISION OF A PROFESSIONAL SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF OHIO. WHERE PAVEMENT REMOVAL IS NECESSARY ADJACENT TO A MONUMENT ASSEMBLY, SAW-CUTTING OF THE ADJACENT PAVEMENT WILL BE REQUIRED TO HELP PRESERVE THE MONUMENT.

ALL MONUMENTS EXISTING AND PROPOSED MUST BE REFERENCED PRIOR TO CONSTRUCTION. A MINIMUM OF 3 POINTS OF REFERENCE PER MONUMENT MUST BE USED AND MUST BE LOCATED OUTSIDE OF THE CONSTRUCTION ZONE WORK AREA. ALL MONUMENTS MUST BE REFERENCED PRIOR TO ADJUSTING ASSEMBLY TO GRADE OR REPLACING CASTING. ALL MONUMENTS ADJUSTED OR REPLACED SHALL BE AS PER THE CLEVELAND MONUMENT ASSEMBLY AS DETAILED ON CITY OF CLEVELAND STANDARD DRAWINGS MB-1C, SET TO PROPER GRADE.

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 ASSEMBLY CASTING SHALL BE ADJUSTED TO GRADE AND NO INSERTS OR ADJUSTING RINGS WILL BE PERMITTED. 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,

CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO AVOID DAMAGE OR DISPLACEMENT OF THE EXISTING MONUMENT DURING THE MONUMENT ASSEMBLY ADJUSTMENT OR REPLACEMENT OPERATIONS AND ALL OTHER OPERATIONS IN THE PROXIMITY.

PRIOR TO THE BEGINNING OF WORK A COPY OF ALL SURVEY AND REFERENCE NOTES WILL BE SENT TO THE ATTENTION OF THE CHIEF SURVEYOR AT THE CITY OF CLEVELAND. MAYOR'S OFFICE OF CAPITAL PROJECTS, DIVISION OF ENGINEERING AND CONSTRUCTION, PLATS AND SURVEY, ROOM 518, CLEVELAND CITY HALL.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 623 MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN.

MKD DAB 10/21/22

34 AM STREETSCAPE 140TH <u>UY-EAST</u>

DRAINAGE

CONSTRUCTION STANDARDS FOR WPC SEWERS

- 1. ALL SEWER CONSTRUCTION AND MATERIALS INCLUDED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ODOT CMS 611, AS MODIFIED BY THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL. NOTES AND STANDARDS INCLUDED HEREIN.
- IF ALTERNATE BID ITEMS ARE AUTHORIZED, ALL PIPES 18" IN DIAMETER AND SMALLER SHALL BE VCP, C-700 EXTRA STRENGTH WITH PREMIUM JOINTS AS PER ODOT 706.08.
- 3. IF ALTERNATE BID ITEMS ARE AUTHORIZED, ALL PIPES 21" IN DIAMETER AND LARGER SHALL BE RCP, CLASS 3 WITH PREMIUM JOINTS AS PER ODOT 706.02.
- ALL PIPES WITH LESS THAN 3' OF COVER SHALL BE DUCTILE IRON PIPE ANSI CLASS 52, WITH PUSH ON JOINTS AND FITTING.
- 5. THE REPAIR OF ALL DISTURBED CITY BRICK SEWERS SHOULD BE COORDINATED WITH WPC **FNGINFFR**
- FOR THE SEWER CONNECTION REPAIR, THE FOLLOWING GUIDELINES SHALL BE USED:
 - A. REPAIR ALL DAMAGED SEWER CONNECTIONS IN KIND.
 - USE VCP FOR ALL REPAIRED/RELOCATED SEWER CONNECTIONS.
 - ALL SEWER REPAIRED/RELOCATED CONNECTIONS SHOULD BE LAID AT NO LESS THAN 1% GRADE.
 - THE MINIMUM SIZE FOR A SEWER CONNECTION SHOULD BE 6".
 - A MINIMUM COVER OF 3 FEET IS REQUIRED FOR ALL PROPOSED SEWER CONNECTIONS
 - A 6" VCP TEST TEE MAY BE REQUIRED FOR A RELOCATED SEWER CONNECTION.
 - NO HORIZONTAL BENDS ARE ALLOWED FOR SEWER CONNECTIONS.

COORDINATION WITH CLEVELAND WATER POLLUTION CONTROL

- THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER POLLUTION CONTROL(WPC) PRIOR TO THE START OF CONSTRUCTION AT 216-664-2756.
- THE CONTRACTOR IS REQUIRED TO SUBMIT SEWER SHOP DRAWINGS TO WPC PRIOR TO THE SEWER INSTALLATION. THE DRAWINGS SHOULD INCLUDE THE SEWER PIPES, MANHOLES, CATCH BASINS AND OTHER SEWER APPURTENANCES.
- 3. WPC WILL INSPECT THE WPC SEWER INSTALLATION.
- 4. THE PROPOSED WPC SEWERS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY WPC. ANY DEVIATIONS FROM THE APPROVED PLANS OR SPECIFICATIONS REQUIRE A NEW SUBMITTAL REFLECTING THE CHANGES. UPON REVIEW OF THE REVISED ITEMS, WPC WILL REISSUE A NEW APPROVAL. IT IS STRICTLY PROHIBITED TO CONSTRUCT ANY CITY SEWERS UNLESS THEY ARE APPROVED BY WPC.
- UPON COMPLETION OF THE CITY SEWER INSTALLATION, THE CONTRACTOR IS REQUIRED TO SUBMIT AS-BUILT PLANS AND A VIDEO TAPED COPY OF THE NEW CITY SEWERS. WPC RESERVES THE RIGHT NOT TO APPROVE ANY CITY SEWER THAT DOES NOT MEET WPC REQUIREMENTS.
- ALL EXISTING WPC CATCH BASIN CONNECTIONS SHOULD BE TELEVISED BY THE CONTRACTOR, AND INSPECTED AND APPROVED BY WPC INSPECTOR PRIOR TO THEIR REUSE.
- 7. THE DIVISION OF WATER POLLUTION CONTROL (WPC) WILL COLLECT ALL CITY SEWER CASTINGS INCLUDING CATCH BASIN FRAMES AND GRATES, AND MANHOLE FRAMES AND COVERS, FOR ALL EXISTING CATCH BASINS THAT NEED TO BE ABANDONED OR REMOVED AND EXISTING MANHOLE COVERS THAT NEEDS TO BE REPLACED. THE CONTRACTOR SHALL DESIGNATE A LOCATION WHERE ALL SEWER CASTINGS ARE TO BE STORED AND SHALL COORDINATE WITH WPC FOR THE COLLECTIONS OF ALL SEWER CASTINGS STORED IN THE DESIGNATED LOCATION.
- 8. 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

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.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE, REPRESENTATIVES OF THE DEPARTMENT, THE CONTRACTOR, AND LOCALS 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 ARE MAINTAINED BY THE DEPARTMENT.

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.

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 CONDUIT ITEMS.

CONNECTIONS 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.

ITEM 202 - PIPE REMOVAL

PIPE REMOVALS, INCLUDING REMOVAL OF THE PAVEMENT ABOVE THE PIPE, THAT OCCUR IN THE SAME TRENCH AS A PROPOSED PIPE ARE INCIDENTAL TO THE PROPOSED PIPE AND NO SEPARATE PAYMENT SHALL BE MADE.

THIS NOTE DOES NOT APPLY TO REMOVAL OF EXISTING WATER LINES, AS THESE REMOVALS ARE ITEMIZED IN THE WATER WORKS PLANS.

ANY ABANDONED PIPE THAT MAY BE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED WITH THE COST OF THAT ITEM; WATERLINE, SEWER, EXCAVATION, ETC.

EXISTING UNDERDRAINS

THE COST FOR REMOVAL AND DISPOSAL OF EXISTING UNDERDRAIN PIPE IS INCIDENTAL TO ITEM 202 - CURB REMOVED, AS PER PLAN. NONE OF THE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION. PROVIDE AN OUTLET PER ODOT STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611 - 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS 750 FT

ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN

NEW UNDERDRAINS SHALL BE CONSTRUCTED TO MATCH THE LOCATION OF ANY EXISTING UNDERDRAIN FOUND AT PROJECT WORK LIMITS SO AS TO ASSURE CONTINUITY OF FLOW. NEW UNDERDRAINS SHALL BE INSTALLED AT A DEPTH WITHIN THE LIMITS SHOWN ON THE TYPICAL SECTIONS AND SHALL DRAIN TO ROADWAY CATCH BASINS.

UNDERDRAIN CONNECTIONS: THE LAST 10 FEET OF UNDERDRAIN OUTLETS TO CATCH BASINS SHALL BE 4" OR 6" CONDUIT, TYPE 4, 706.08, NON-PERFORATED AS INDICATED IN THE PLANS.

IN ADDITION TO THE QUANTITIES PROPOSED IN THE PLAN SHEETS, THE FOLLOWING CONTINGENCY QUANTITY IS INCLUDED TO INSTALL UNDERDRAIN UNDER THE CSX RAILROAD BRIDGE (STA. 44+01.46 TO STA. 45+15.67 ON THE LEFT SIDE AND STA. 44+25.95 TO STA. 45+39.09 ON THE RIGHT SIDE) IN THE EVENT EXISTING UNDERDRAIN IS FOUND DURING THE PROPOSED WORK:

ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN

230 FT

ITEM 611 - DRAINAGE STRUCTURE, MISC.: UTILITY TEST HOLE

WHERE PLANS INDICATE OTHER UTILITIES ARE IN CLOSE PROXIMITY OF A NEW CATCH BASIN INSTALLATION, THE ENGINEER MAY DECIDE TO EXCAVATE TO CONFIRM THE CATCH BASIN CAN BE PLACED WITHOUT INTERFERENCE. IF INTERFERENCE IS FOUND, THE CATCH BASIN LOCATION OR TYPE IS TO BE REVISED, AS DIRECTED BY THE ENGINEER.

ONCE THE TEST HOLE IS COMPLETE, THE EXCAVATION SHALL BE BACKFILLED AND SURFACE RESTORED. NO PAYMENT FOR UTILITY TEST HOLE AS PER PLAN WILL BE GIVEN WITHOUT PRIOR APPROVAL FROM THE ENGINEER. PAYMENT FOR ALL LABOR, MATERIALS, EQUIPMENT AND OTHER INCIDENTALS, INCLUDING BACKFILL, COMPACTION AND SURFACE RESTORATION SHALL BE AT THE CONTRACT UNIT PRICE BID FOR ITEM 611 - DRAINAGE STRUCTURE, MISC.: UTILITY TEST HOLE. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE BY THE

ITEM 611 - DRAINAGE STRUCTURE, MISC.: UTILITY TEST HOLE 10 EACH

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DRAINAGE (CONTINUED)

ITEM SPECIAL - TRENCH DRAIN

THIS ITEM SHALL CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 839 - TRENCH DRAIN SYSTEM. SUPPLY AND INSTALL TRENCH DRAIN, TYPE B WITH PEDESTRIAN GRATE, AS LOCATED AND AS MODIFIED ON THE DETAILS ON SHEET 291.

SURFACE DRAINAGE CONTINGENCY

EVERY EFFORT HAS BEEN MADE TO PROVIDE FOR ADEQUATE CURB INLETS AND PIPE TO PROPERLY ACCOUNT FOR THE SURFACE DRAINAGE. IN THE EVENT THAT ISOLATED LOW AREAS DEVELOP DURING CONSTRUCTION OF THE PROJECT, THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 202 - MANHOLE REMOVED	2 EACH
ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN	100 FT
ITEM 611 - CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1	8 EACH

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

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 COMPLETED AND ACCEPTED QUANTITIES SHALL BE MADE AT THE CONTRACT UNIT BID PRICE:

ITEM 202 - PIPE REMOVED, 24" AND UNDER	100 FT
ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN	200 FT
ITEM 611 - 6" CONDUIT, TYPE E	200 FT
ITEM 611 - CONDUIT, MISC.: 12" CONDUIT, DUCTILE IRON	
PIPE ANSI CLASS 52, PUSH ON JOINTS AND FITTINGS	100 FT

CLEAN AND TELEVISE SEWER

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL TELEVISE EXISTING SEWER LATERALS TO REMAIN AT ALL LOCATIONS WHERE EXISTING DRAINAGE STRUCTURES ARE BEING REPLACED. THE TELEVISING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL REPRESENTATIVE(S).

IF, IN THE OPINION OF ODOT AND THE CITY REPRESENTATIVE(S), THE LATERAL HAS REACHED ITS DESIGN SERVICE LIFE AND/OR WARRANTS REPLACEMENT, THE CONTRACTOR SHALL INSTALL A NEW SEWER LATERAL FROM THE NEW DRAINAGE STRUCTURE TO THE SEWER MAIN.

NEW SEWER LATERAL SHALL MATCH THE EXISTING LATERAL IN TERMS OF PIPE SIZE, LOCATION AND SLOPE, EXISTING LATERAL SHALL BE REMOVED. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN	200 F1
ITEM 611 - 15" CONDUIT, TYPE B, AS PER PLAN	200 F1

ANY ADDITIONAL COST FOR PAVEMENT REMOVED, MAINTENANCE OF TRAFFIC OR OUT OF SEQUENCE PLANNED WORK SHALL BE INCLUDED WITH PERTINENT ITEM 611. THESE ITEMS ARE CONSIDERED COMPLETE IN PLACE.

COPIES OF THE INSPECTION REPORT SHALL BE DELIVERED TO THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL AND THE CITY OF CLEVELAND DIVISION OF ENGINEERING AND CONSTRUCTION. THE INSPECTION SHALL FOLLOW THE GUIDELINES OF THE NATIONAL ASSOCIATION OF SEWER SERVICE COMPANIES.

PAYMENT FOR THIS ITEM INCLUDES THE CCTV SEWER INSPECTION, NASSCO INSPECTION REPORT, AND ANY ADDITIONAL COST FOR MAINTENANCE OF TRAFFIC OR ITEMS NECESSARY TO COMPLETE THE INSPECTION AND SHALL BE INCIDENTAL TO THE UNIT COST BID FOR INSTALLATION, REPLACEMENT, ADJUSTMENT, OR RECONSTRUCTION OF EACH DRAINAGE STRUCTURE.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

1 CERTIFIED OF COMPLIANCE

MATERIAL MUST COME FROM A PLANT WITH A CURRENT CERTIFICATE OF COMPLIANCE DEMONSTRATING THE ABILITY OF THE MIX DESIGN TO MEET THE SPECIFIED REQUIREMENTS.

CERTIFICATES IN EXCESS OF ONE YEAR WILL NOT BE ACCEPTED. CERTIFICATES MUST CONTAIN THE NAME OF SUPPLIER, DATE, CONTRACT NUMBER AND MIX DESIGN DATA ON EACH DELIVERY TICKET.

ALL MATERIALS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS STATED HEREIN.

- A. CEMENT SHALL BE ASTM C-150 TYPE 1
- B. THE USE OF FLY ASH IS STRICTLY PROHIBITED.
- C. FINE AGGREGATE SHALL CONFORM TO ODOT SPECIFICATION 703.03 FINE AGGREGATE FOR MORTAR OR GROUT. (ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS MOST
- D. THE USE OF SPENT FOUNDRY SAND OR CORE SAND IS STRICTLY PROHIBITED.

3. PERFORMANCE ENHANCING ADMIXTURE

ANY AIR-ENHANCING ADMIXTURE SHALL BE INCORPORATED IN THE MIX THAT WILL HAVE THE EFFECT OF LOWERING THE WATER/CEMENT RATIO TO BETWEEN 95 AND 105 LBS/CUBIC FOOT. THE AIR ENTRAINED CONTENT FOR THE MIX SHALL BE 30% TO ELIMINATE/ MINIMIZE THE EXCESSIVE WATER AND SEGREGATION. COMPRESSIVE STRENGTHS SHALL HAVE A RANGE OF 50 PSI TO 80 PSI AT 28 DAYS WILL BE REQUIRED IF ADDITIONAL EXCAVATION BY MACHINE OR HAND IS REQUIRED.

APPROVED ADMIXTURES

MANUFACTURER PRODUCT NAME

- A. MASTER BUILDERS RHEOFILL
- B. AXIM FLOW AIR
- C. W.R. GRACE DARAFILL
- D. OR APPROVED EQUAL

4. FLOWABLE FILL MIX DESIGN

THE MIX DESIGN SHALL BE PROPORTIONED AS FOLLOWS:

CEMENT (TYPE 1) 50 LBS/ CUBIC YARD SAND (SSD) 2475 LBS/CUBIC YARD WATER 25 GALLONS/ CUBIC YARD **ADMIXTURE** 3 OZ/CUBIC YARD

VARIATIONS OF THE AFOREMENTIONED MIX DESIGN ARE STRICTLY PROHIBITED.

5. APPLICATION

- A. FLOWABLE FILL SHALL BEGIN 12 INCHES ABOVE THE TOP OF PIPE AND CONTINUE IN THE TRENCH IN CONFORMANCE WITH THE CITY STANDARD TRENCH REPAIR DETAIL (PR-1).
- MATERIAL FOR PIPE BEDDING AND PIPE ZONE TO A MAXIMUM DEPTH OF 12 INCHES OVER THE TOP OF PIPE SHALL BE AS SPECIFIED BY THE UTILITY.
- C. EXPOSED BOLTS AND VALVES EXPOSED IN THE TRENCH SHOULD BE WRAPPED WITH POLYETHLENE MATERIAL CONFORMING TO ODOT 748.07 (8 MIL. THICK).
- COVER ALL JOINTS IN CLAY PIPE IN THE TRENCH AREA WITH POLYETHYLENE MATERIAL BEFORE POURING FLOWABLE FILL.
- E. REPAIR ALL OBSERVED OPENING IN ANY PIPE OR MANHOLE IN THE TRENCH AREA PRIOR TO BACKFILLING WITH FLOWABLE FILL. REPAIR TECHNIQUES SHALL BE IN ACCORDING WITH THE UTILITY COMPANY'S STANDARD REPAIR PROCEDURES.
- F. CONTACT THE RESPECTIVE UTILITY OWNER FOR REPAIR PROCEDURES.

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

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, AS PER PLAN 250 CY

PAVEMENT

PAVEMENT REPAIR OPERATIONS

AREAS OF PAVEMENT BASE ALONG THE EAST 140TH STREET CORRIDOR WILL BE REPAIRED OR REPLACED TO REHABILITATE DETERIORATING PAVEMENT BASE CONDITIONS. THE FOLLOWING METHODOLOGY WILL BE USED TO IDENTIFY AREAS OF BASE REPAIR.

PAVEMENT PLANING: PER THE TYPICAL SECTIONS, THE CONTRACTOR WILL PERFORM 3.25" UNIFORM FULL WIDTH PAVEMENT PLANING FROM COIT AVENUE TO MAXWELL AVENUE, AND 2.5" UNIFORM FULL WIDTH PAVEMENT PLANING FROM ST. CLAIR AVENUE TO COIT AVENUE AND FROM MAXWELL AVENUE TO LAKESHORE BOULEVARD. THE ROADWAY SHALL MAINTAIN A MINIMUM 0.003 PROFILE GRADE, A 0.156 MINIMUM AND 0.030 MAXIMUM CROSS SLOPE IN THE VEHICLE LANES AND 4" TO 6" CURB REVEAL. SEE THE PAVEMENT ELEVATION TABLE ON SHEETS 88 TO 105.

THE UNIFORM PAVEMENT PLANING IS QUANTIFIED ON THE PAVEMENT SUBSUMMARY AND CARRIED TO THE GENERAL SUMMARY UNDER ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=2.5") OR ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=3.25").

IN ADDITION TO THE UNIFORM PAVEMENT PLANING OPERATION, THE CONTRACTOR SHALL PERFORM ADDITIONAL PAVEMENT PLANING THE AREAS DESIGNATED ON THE PLAN SHEETS AND PAVEMENT ELEVATION TABLES TO ACHIEVE THE PROPOSED PAVEMENT CROSS SLOPES. THIS ADDITIONAL PLANING OPERATION WILL VARY IN THICKNESS AT EACH DESIGNATED LOCATION TO ACHIEVE THE PROPOSED DESIGN. IT IS EXPECTED THAT THE ADDITIONAL PLANING WILL INCLUDE BOTH ASPHALT WEARING COURSE AND CONCRETE BASE AND THE CONTRACTOR SHALL ESTABLISH THE PROPOSED DESIGN REGARDLESS OF THE TYPE OF MATERIAL REQUIRING PAVEMENT PLANING. THE ANTICIPATED ADDITIONAL PAVEMENT PLANING LOCATIONS ARE SHOWN ON THE PAVEMENT ELEVATION TABLE AND CARRIED TO THE GENERAL SUMMARY UNDER ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=1" MIN.) OR ITEM 254 - PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN (T=1" MIN.).

PAVE INNER TRAVEL LANES PRIOR TO OUTER BIKE LANES.

BASE REPAIR: UPON COMPLETION OF ALL PAVEMENT PLANING OPERATIONS AND CONFIRMATION BY THE ENGINEER THAT THE PROPOSED DESIGN HAS BEEN ESTABLISHED, THE ENGINEER WILL DESIGNATE LOCATIONS AND LIMITS OF PAVEMENT BASE REPAIR. BASE REPAIR ESTIMATED QUANTITIES ARE INCLUDED IN THESE CONTRACT PLANS.

PAVEMENT ABOVE DRAINAGE AND UTILITIES

THE COST FOR PAVEMENT REMOVAL AND RESTORATION FOR PIPE/CONDUIT OR ANY OTHER ITEMS UNLESS SPECIFICALLY ITEMIZED, SHALL BE INCLUDED WITH THE PROPOSED DRAINAGE CONDUIT OR WATER WORK CONDUIT/REMOVAL ITEM. NO SEPARATE PAYMENT WILL BE MADE. THE RESTORATION SHALL BE IN ACCORDANCE WITH TRENCH AND PAVEMENT RESTORATION DETAIL ON SHEET 17.

PART WIDTH CONSTRUCTION

BECAUSE OF 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 BP-3.1.

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 FEET AND PRIOR TO EACH INTERSECTION.

CONTRACTION JOINTS IN CONCRETE

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

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PAVEMENT (CONTINUED)

ITEM 301 AND 441 - ASPHALT CONCRETE, AS PER PLAN

ASPHALT CONCRETE SHALL COMPLY WITH ODOT ITEMS 301 AND 441, AND PG 64-22 AND PG 70-22, UNLESS SPECIFIED DIFFERENTLY ON THE PLANS.

RECYCLED MATERIAL SHALL BE LIMITED TO WEARING COURSE MAXIMUM OF 10%, INTERMEDIATE COURSE MAXIMUM OF 20%, AND BITUMINOUS BASE COURSE MAXIMUM OF 30%.

ASPHALT CONCRETE SURFACE COURSE

AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL PERFORM GUTTER GRINDING AS DETAILED ON SHEET 19 IN THE REGIONS INDICATED ON THE TYPICAL SECTIONS (SEE SHEETS 13 AND 16) AND PAVEMENT ELEVATION TABLES (SEE SHEETS 88 AND 105). ALL ITEMS INCIDENTAL TO GUTTER GRINDING SHALL BE INCLUDED IN THE COST OF THE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED ON SCD BP-3.1 AND IN 401.15. AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL SEAL, WITH A CERTIFIED PG BINDER, THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS. CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD TRANSVERSE CONSTRUCTION JOINTS PER 401.17.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2 INCHES.

GUTTER SEAL

UNLESS OTHERWISE SPECIFIED OR PERMITTED, GUTTERS SHALL BE SEALED WITH THE SAME TYPE OF ASPHALT CEMENT USE IN THE CONCRETE MIXTURE FOR A DISTANCE OF FOUR (4) INCHES FROM THE CURB. THE SEAL SHALL BE APPLIED AT A UNIFORM RATE AND WIDTH BY THE MEANS OF A SQUEEGEE OR DISTRIBUTOR IN SUCH A MANNER THAN NO EXCESS MATERIAL WILL BE LEFT ON THE SURFACE. THE ASPHALT GUTTER SEAL SHALL BE APPLIED AT A TEMPERATURE BETWEEN 300 DEGREES FAHRENHEIT AND 350 DEGREES FAHRENHEIT IMMEDIATELY UPON THE COMPLETION OF THE SURFACE COURSE. IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED ON SCD BP-3.1 AND IN 401.15, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL SEAL, WITH CERTIFIED PG BINDER, THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING, BUT NOT LIMITED TO, MONUMENTS, MANHOLES, WATER VALVES AND CATCH BASINS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS WHEN PAVEMENT REPAIRS ARE NOT OVERLAID WITH ASPHALT CONCRETE.

THE MATERIAL USED SHALL BE HOT APPLIED CERTIFIED 702.01 PG BINDER. THE WIDTH OF SEALER SHALL BE 2 INCHES.

THE COST OF THE JOINT SEAL APPLIED AS HEREIN SPECIFIED SHALL BE INCLUDED IN THE PRICE PER SQUARE YARD FOR SURFACE COURSE BID BY THE CONTRACTOR.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M (T= 1.5")

THE COURSE AGGREGATE FOR THIS ITEM SHALL BE A BLEND OF 60% MIN. AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE. THE USE OF GRAVEL IS PROHIBITED. FOR THIS ITEM, A THIRD ROLLER IS REQUIRED FOR MAINLINE PAVING OPERATIONS. THE ROLLER SHALL CONFORM TO THE REQUIREMENTS OF 401.13. THIS ITEM SHALL INCLUDE ODOT SUPPLEMENTAL SPECIFICATION 875 -LONGITUDINAL JOINT ADHESIVE. THE COST OF THIS ADHESIVE SHALL BE INCLUDED IN THE PRICE PER CUBIC YARD FOR SURFACE COURSE BID BY THE CONTRACTOR.

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

 \succ FOR THIS ITEM, A THIRD ROLLER IS REQUIRED FOR MAINLINE PAVING OPERATIONS. THE ROLLER SHALL CONFORM TO THE REQUIREMENTS OF 401.13.

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PLACE $^{>}$ 0" MIN. ASPHALT CONCRETE AND TACK COAT IN AREAS WHERE ASPHALT CONCRETE SURFACE AND NTERMEDIATE COURSE IS NOT OF SUFFICIENT DEPTH TO ACHIEVE A MINIMUM CROSS SLOPE OR AS OTHERWISE DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE SAS DIRECTED BY THE ENGINEER:

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 (0" MIN.) ITEM 407 - TACK COAT, 702.13

690 CY 100 GAI

ITEM 441 - ASPHALT CONCRETE, MISC.: SURFACE REPAIR BEHIND DRIVES AND **WALKS (448)**

WHERE DIRECTED IN THE FIELD BY THE ENGINEER THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING ASPHALT BEHIND THE RIGHT OF WAY (SIDEWALK) TO THE LIMITS AS INDICATED BY THE ENGINEER IN THE FIELD.

THE COST FOR PAVEMENT REMOVAL, ITEM 304 AGGREGATE BASE, ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, ITEM 407 TACK COAT, ITEM 441 INTERMEDIATE COURSE AND ITEM 441 SURFACE COURSE SHALL BE INCLUDED IN THE COST FOR ITEM 441 ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS.

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

ITEM 441 - ASPHALT CONCRETE, MISC.: SURFACE REPAIR BEHIND DRIVES AND WALKS (448) 50 CY

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEMS 452 AND 608, THE COST OF EXCAVATING, FURNISHING AND COMPACTING 2" LIMESTONE SCREENING BED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THESE ITEMS AND SHALL MEET THE REQUIREMENTS OF THE GENERAL NOTE "CONCRETE DESIGN MIX (CLEVELAND 650)". ALL CONCRETE FOR WALKS, ADA RAMPS AND DRIVES SHALL HAVE RETRACED PICTURE FRAME TOOLED EDGE JOINTS.

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE

AT VARIOUS LOCATIONS ALONG THE CORRIDOR AND TIMES DURING CONSTRUCTION CIRCUMSTANCES MAY REQUIRE THE USE OF CLASS MS CONCRETE. THE USE OF MS CONCRETE SHALL BE AT THE DISCRETION AND DIRECTION OF THE ENGINEER AND THE SPECIFICATIONS OUTLINED IN THESE NOTES. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE

200 CY

CONCRETE DESIGN MIX (CLEVELAND 650)

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

ITEM 452. 608. AND 609 - CONSTRUCTION OF CONCRETE BASE PAVEMENT. DRIVEWAYS, SIDEWALKS AND CURB, AS PER PLAN

CONSTRUCT CAST-IN-PLACE CONCRETE ITEMS IN ACCORDANCE WITH THE ODOT CMS, EXCEPT AS MODIFIED BY GENERAL NOTE "CONCRETE DESIGN MIX (CLEVELAND 650)" AND OTHER GENERAL NOTES WITHIN THE PLAN SET.

ITEM 609- CURB, TYPE 6, AS PER PLAN

THIS ITEM SHALL CONFORM TO ALL REQUIREMENTS OF ITEM 609 EXCEPT THE FOLLOWING: THE NOSING OF THE CURB SHALL BE $\frac{1}{2}$ INCH.

ITEM 609- CURB, MISC.: SIDEWALK CURB

FORM AND POUR 6" TALL CURB, FINISHED ON ALL EXPOSED SIDES WITH $\frac{1}{2}$ " NOSING, INTEGRAL TO THE SIDEWALK AS THE BACK OF R/W OR AS SHOWN IN THE PLANS. THE CURB SHALL HAVE 2' WIDE FLUSH SECTIONS, SPACED EVENLY, APPROXIMATELY 10' ON CENTER. THE CURB IS BEING INSTALLED TO SEPARATE SIDEWALK FROM PRIVATE PAVEMENT WHILE PERMITTING DRAINAGE TO FLOW. LOCATE FLUSH SECTIONS SO THAT NO PONDING OCCURS ON EITHER SIDE OF CURB.

EXISTING PAVEMENT DISPOSAL/CASTING ADJUSTMENT

THIS EXISTING ASPHALT PAVEMENT WEARING COURSE, BRICK BASE, AND CONCRETE SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR. ONCE THE BASE IS REMOVED, IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DELINEATE ANY CASTINGS THAT MAY PROTRUDE ABOVE THE EXISTING CONCRETE BASE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT MATERIAL IN THE VICINITY OF THESE CASTINGS TO PROVIDE AN ADEQUATE RAMP AROUND THE CASTINGS. IN NO CASE SHALL THE CASTING REMAIN EXPOSED WITHOUT PROPER PROTECTION.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAVER 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.

CONTRACTION JOINTS IN CONCRETE

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 PAVEMENT SHALL BE 15 FFFT AND IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2. IF NECESSARY. ADDITIONAL JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED THE MAXIMUM SPACING.

MKD DAB 10/21/22 115612

32 298

SHEET NUM. PART. ALT ITEM GRAND SEE SHEE **DESCRIPTION** ITEM UNIT NO. WATER 65 68 71 72 172 173 01/ENH/OT 02/NFP/PV (X) EXT TOTAL NOTES **NOTES ROADWAY** LS LS 201 11001 LS CLEARING AND GRUBBING, AS PER PLAN 24 2,000 202 23001 3,000 PAVEMENT REMOVED, AS PER PLAN 1,000 3,000 ^96,555 108.765 108,765 SF WALK REMOVED, AS PER PLAN 24 12,210 202 30001 12,914 12,914 202 32001 12,914 FT CURB REMOVED, AS PER PLAN 24 100 202 35100 100 FT PIPE REMOVED, 24" AND UNDER 100 14 14 202 38000 14 FT **GUARDRAIL REMOVED** 58000 EACH MANHOLE REMOVED 202 2 39 39 202 58100 39 EACH CATCH BASIN REMOVED 31 31 202 98100 31 **EACH** REMOVAL MISC.: WATER VALVE BOX REMOVED 150 10 13 202 98100 13 **EACH** REMOVAL MISC.: POLE REMOVED 25 1 202 98100 EACH REMOVAL MISC.: POLE BASE AND FOUNDATION REMOVED 25 202 98100 REMOVAL MISC.: BOLLARD REMOVED 25 1 EACH 282 282 202 98200 282 FT REMOVAL MISC.: STRUCTURAL CURB REMOVED 24 3,155 3,155 202 98200 3,155 FT REMOVAL MISC.: WATERLINE REMOVED, 24" AND UNDER 150 REMOVAL MISC.:CONCRETE ENCASED UNKNOWN ELECTRICAL DUCT REMOVAL 149 750 202 98200 750 FT 1,000 98300 -1,000 1,000 \1,000 202 2,000 SY REMOVAL MISC.: TRACK REMOVED 25 **GENERAL SUMMARY** 2,581 2,581 24 100 2,481 202 98300 SY REMOVAL MISC.: PAVEMENT REMOVED FOR DRIVES 500 500 203 10000 500 CY EXCAVATION 26 LS LS 203 98500 LS ROADWAY, MISC.: PRE-CONSTRUCTION AUDIO-VIDEO 26 98500 ROADWAY, MISC.: RAILROAD INSURANCE PREMIUM LS LS 203 LS 1,000 926 1,926 204 10000 1,926 SUBGRADE COMPACTION 24 24 204 45000 24 HOUR PROOF ROLLING 500 500 204 50000 500 SY GEOTEXTILE FABRIC 142 LINEAR GRADING, AS PER PLAN 25 209 60201 STA 142 142 3,800 29,159 10001 29,159 4" CONCRETE WALK, AS PER PLAN 25,359 608 26 27,478 2,650 819 30,947 608 13001 30,947 SF 6" CONCRETE WALK, AS PER PLAN 26 750 4,055 4,805 608 15001 4,805 SF 8" CONCRETE WALK, AS PER PLAN 26 250 4,945 5,195 608 52001 5,195 SF CURB RAMP, AS PER PLAN 26 23 23 MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN 623 39501 23 26 623 40900 MONUMENT, MISC.:CLEVELAND MONUMENT ASSEMBLY 27 4 4 623 40900 4 EACH MONUMENT, MISC.: MONUMENT BOX AND COVER 27 33 33 623 40900 EACH MONUMENT, MISC.: MONUMENT REFERENCING 27 33 RETAINING WALL AND HANDRAIL REMOVED AT MCELHATTEN LS LS SPECIAL 69098400 LS 26 500 500 69098700 500 UNDERCUTTING SUBGRADE AND SUBBASE, AS PER PLAN 25 CY **EROSION CONTROL** 659 00100 EACH SOIL ANALYSIS TEST 350 350 659 14000 350 SY REPAIR SEEDING AND MULCHING SY 350 350 659 15000 350 INTER-SEEDING COMMERCIAL FERTILIZER 0.98 0.98 659 20000 0.98 TON 1.45 659 31000 1.45 1.45 ACRE IMF CUY-EAST 140TH STREETSCAPE 40 659 35000 40 MGAL WATER 40 40,000 40,000 832 30001 40,000 **EACH** EROSION CONTROL, AS PER PLAN 27 **ENVIRONMENTAL / REMEDIATION** 75 75 SPECIAL 69065000 75 TON WORK INVOLVING NON-REGULATED MATERIALS 34-35 752 752 **SPECIAL** 69065016 752 TON WORK INVOLVING PETROLEUM CONTAMINATED SOIL 34-35 Michael Baker 35,000 69065022 WORK INVOLVING NON-REGULATED WATER 34-35 35,000 **SPECIAL** 35,000 GAL 14,000 14,000 **SPECIAL** 69065024 14,000 GAL WORK INVOLVING REGULATED WATER 34-35 DRAINAGE 230 12,987 13.217 605 11111 13,217 FT 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN 28 MGZ 500 500 605 31100 500 FT AGGREGATE DRAINS DAB 10/21/2 750 750 611 00510 750 FT 5" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS 200 200 611 01400 200 FT 6" CONDUIT, TYPE E 115612 18 18 01500 18 FT 6" CONDUIT, TYPE F, 707.45 611 60 298

SHEET NUM. PART. ALT ITEM GRAND SEE SHEE **DESCRIPTION** ITEM UNIT NO. WATER 65 68 71 172 272 01/ENH/OT 02/NFP/PV (X) EXT TOTAL NOTES NOTES DRAINAGE 200 611 05901 200 15" CONDUIT, TYPE B, AS PER PLAN 29 200 200 611 97400 200 CONDUIT, MISC.: 12" CONDUIT, DUCTILE IRON PIPE ANSI CLASS 52, PUSH ON JOINTS AND FITTINGS 4 611 98631 EACH CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN 29 15 15 29 611 98635 15 EACH CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN 1 1 611 98635 EACH CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN, TYPE A 29 28 36 611 98690 36 EACH CATCH BASIN, MISC.: CITY OF CLEVELAND, CB-1 29 98690 EACH CATCH BASIN, MISC.: CITY OF CLEVELAND, CB-1, WITH FLAT GRATE TOP 29 2 7 611 98690 9 14 611 EACH CATCH BASIN, MISC.: CITY OF CLEVELAND, CB-2 29 14 611 98690 **EACH** CATCH BASIN, MISC.: CITY OF CLEVELAND, CB-3 29 63 63 611 63 EACH MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SEWER) 29 5 5 611 99661 EACH MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN (SEWER) 29 SPECIAL 61199820 25,000 MISCELLANEOUS METAL 29 25.000 25.000 LB 445 445 **SPECIAL** 61199830 445 FT TRENCH DRAIN 30 DRAINAGE STRUCTURE, MISC.: UTILITY TEST HOLE 10 13 611 99900 13 EACH 28 LOW STRENGTH MORTAR BACKFILL, AS PER PLAN 250 250 613 41201 250 CY 30 **GENERAL SUMMARY** DRAINAGE ALTERNATES 274 774 611 04401 774 12" CONDUIT, TYPE B, AS PER PLAN (OPEN PIPE POLICY) (ALTERNATE 1) 29 29 274 Χ 500 774 611 04401 774 FT 12" CONDUIT, TYPE B, AS PER PLAN (706.08 ES) (ALTERNATE 2) PAVEMENT PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN 2,000 251 01001 2,000 31 24,747 24,747 254 01001 24,747 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=2 1/2") 31 31 01001 8,320 8,320 254 8,320 SY PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=3 1/4") PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=1" MIN.) 1,500 1,500 254 01001 `1,ŝ00´ SY 31 1,453 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN (T=2 1/2") 1,453 1,453 254 01011 SY 31 364 364 254 01011 364 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN (T=3 1/4") 31 3,200 3,200 254 01011 3,200 SY PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN (T=1" MIN.) 31 400 400 254 01600 400 SY PATCHING PLANED SURFACE FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1, AS PER PLAN 2,500 2,500 255 10011 2,500 SY 31 134 AGGREGATE BASE, AS PER PLAN (T=6" MIN.) 500 634 304 20001 634 CY 31 1.000 305 13011 1,000 SY 9" CONCRETE BASE, CLASS QC 1P, AS PER PLAN 31 1.000 3,491 3,591 407 13900 3,591 GAL TACK COAT, 702.13 100 3,491 3,491 407 20000 3,491 GAL NON-TRACKING TACK COAT ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M (T=1 1/2") 1 456 1.456 441 50101 1,456 32 <u>~72̂7</u> 727~ 441 50201 \72Ŷ~ CY ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 (T=1") 32 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 (T=0" MIN.) 32 690 690 441 50201 690 422 422 441 50301 422 CY ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22 (T=1 3/4") 32 ASPHALT CONCRETE, MISC.: SURFACE REPAIR BEHIND DRIVES AND WALKS (448) 50 50 441 90000 50 CY 32 5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN 32 **CUY-EAST 140TH STREETSCAPE** 232 232 452 10011 232 SY 32 694 694 452 12011 694 SY B" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN 200 200 452 19200 200 SY NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE 32 13,106 32 .13,106 609 26001 -13,106∠ CURB, TYPE 6, AS PER PLAN 120 337 457 609 98000 457 FT CURB. MISC.: SIDEWALK CURB 32 ¹282− ⁻28̂2⁻ 289 282 609 98000 FT CURB, MISC.: STRUCTURAL TYPE 6 CURB WATER WORK 7,500 7,500 SPECIAL 61199820 7,500 LB MISCELLANEOUS METAL 148 638 10481 25 FACH FIRE HYDRANT REMOVED, AS PER PLAN 148 25 25 MZG 46 46 638 10800 46 EACH VALVE BOX ADJUSTED TO GRADE 45 638 10901 SERVICE BOX ADJUSTED TO GRADE, AS PER PLAN 10 55 55 DAB 10/21/22 115612 61 298

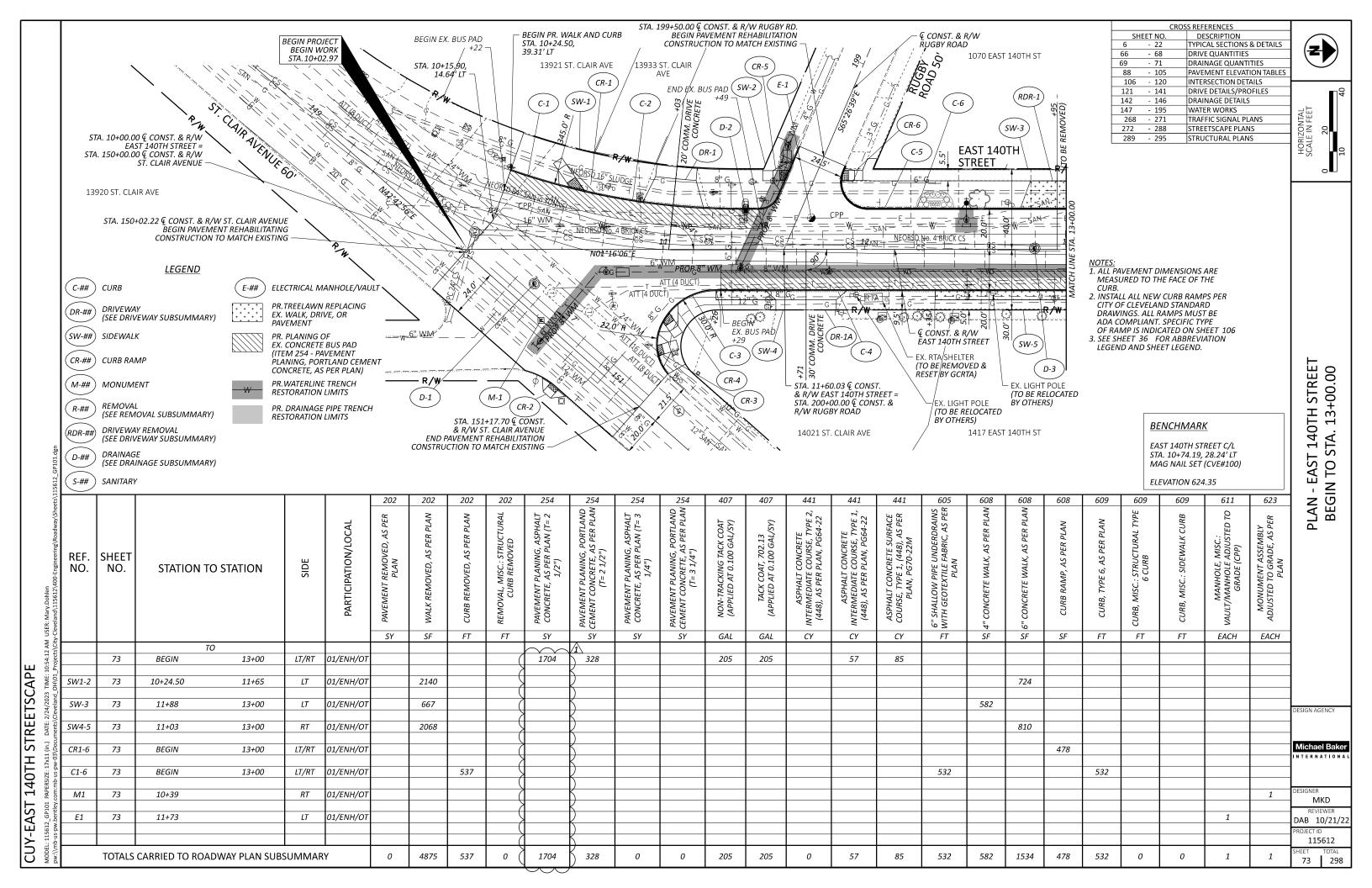
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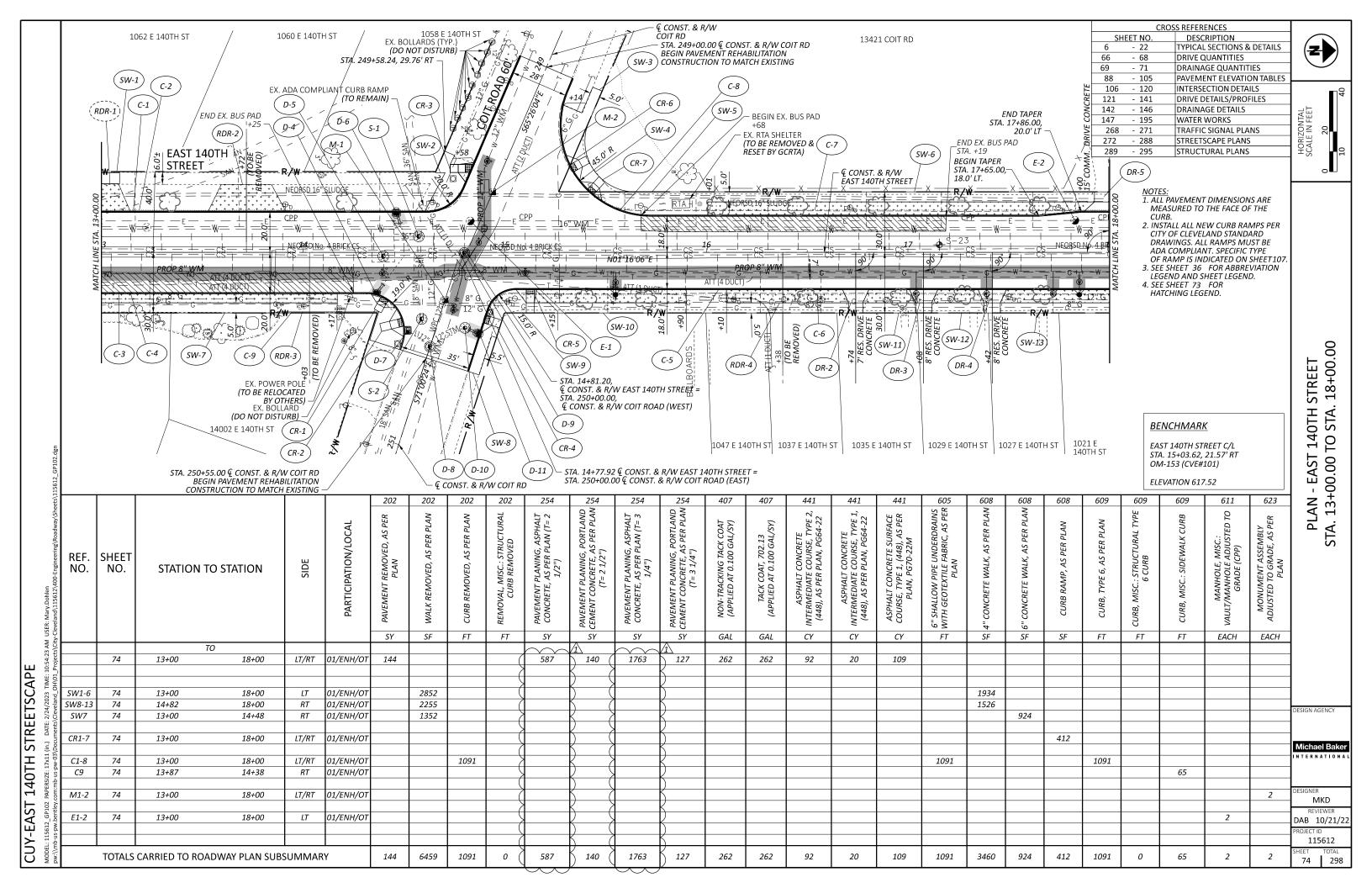
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	PAVEMENT REMOVED, AS PER PLAN	WALK REMOVED, AS PER PLAN	CURB REMOVED, AS PER PLAN	REMOVAL, MISC.: STRUCTURAL CURB REMOVED	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T= 2 1/2")	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN (T= 2 1/2")	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T= 3 1/4")	PAVEMENT PLANING, PORTLANE CEMENT CONCRETE, AS PER PLAN (T= 3 1/4")	NON-TRACKING TACK COAT (APPLIED AT 0.100 GAL/SY)	TACK COAT, 702.13 (APPLIED AT 0.100 GAL/SY)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M	S" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	4" CONCRETE WALK, AS PER PLAN	6" CONCRETE WALK, AS PER PLAN	CURB RAMP, AS PER PLAN	CURB, TYPE 6, AS PER PLAN	CURB, MISC.: STRUCTURAL TYPE 6 CURB	CURB, MISC.: SIDEWALK CURB	MANHOLE, MISC.: VAULT/MANHOLE ADIUSTED TO GRADE (CPP)	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN
	SY	SF	FT	FT	SY	SY	SY	SY	GAL	GAL	CY	CY	CY	FT	SF	SF	SF	FT	FT	FT	EACH	EACH
						$\widehat{\Lambda}$																
TOTALS FROM SHEET 73	0	4875	<i>537</i>	0 (1704	328	\sim^0	Λ o	205	205	0	57	85	532	582	1534	478	532	0	0	1	1
TOTALS FROM SHEET 74	144	6459	1091	0	587	140	1763)	127	262	262	92	20	109	1091	3460	924	412	1091	0	65	2	2
TOTALS FROM SHEET 75	196	5781	1000	0	Ô	0	2050	0	205	205	100	0	85	1000	3838	668	0	1000	0	0	3	1
TOTALS FROM SHEET 76	252	6632	1087	0	0	0	1858	194	205	205	100	0	86	998	4507	0	424	1087	0	37	1	1
TOTALS FROM SHEET 77	252	6005	1009	0	0	0	2024	43	207	207	100	0	86	993	3984	0	175	993	0	0	2	1
TOTALS FROM SHEET 78	202	6539	1005	0	1488	0	625	0	211	211	30	41	88	1005	162	2956	150	1005	0	0	2	1
TOTALS FROM SHEET 79	106 ^	5886	1186	0	2407	234	0	0	264	264	0	73	110	1119	0	4134	665	1186	0	115	7	2
TOTALS FROM SHEET 80	70/1	7895	527	282	2114	37	0	0	215	215	0	60	90	773	0	<i>5798</i>	0	736	282	0	5	0
TOTALS FROM SHEET 81	(191)	7762	1004	0	2074	158	0	0	223	223	0	62	√93 _√	1 1004	0	4683	353	1004	0	0	2	1
TOTALS FROM SHEET 82	231	9598	999	0	2121	75	0	0	220	220	0	61	92)	999	2010	1940	√51 <u>1</u>	1 √ 999	0	0	1	3
TOTALS FROM SHEET 83	123	8431	970	0	2135	257	0	0	239	239	0	66	100	970	1158	(2602	658	970	0	0	2	3
TOTALS FROM SHEET 84	0	4902	648	0	3115	45	0 ^	0	316	316	0	88	132	648	896	2239-(398	648	0	0	3	2
TOTALS FROM SHEET 85	207	9004	600	0	2552~	∕ <u>1</u> \ 56	0,1	0	261	261	0	72	109	604	2840	0	575	604	0	0	2	3
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TOTALS CARRIED TO GENERAL SUMMARY	2000	96555	12914	282 (24747	1453	8320	<u> 1</u> 364	3491	3491	422	727	1456	12987	25359	27478	4945	13106	282	337	35	23

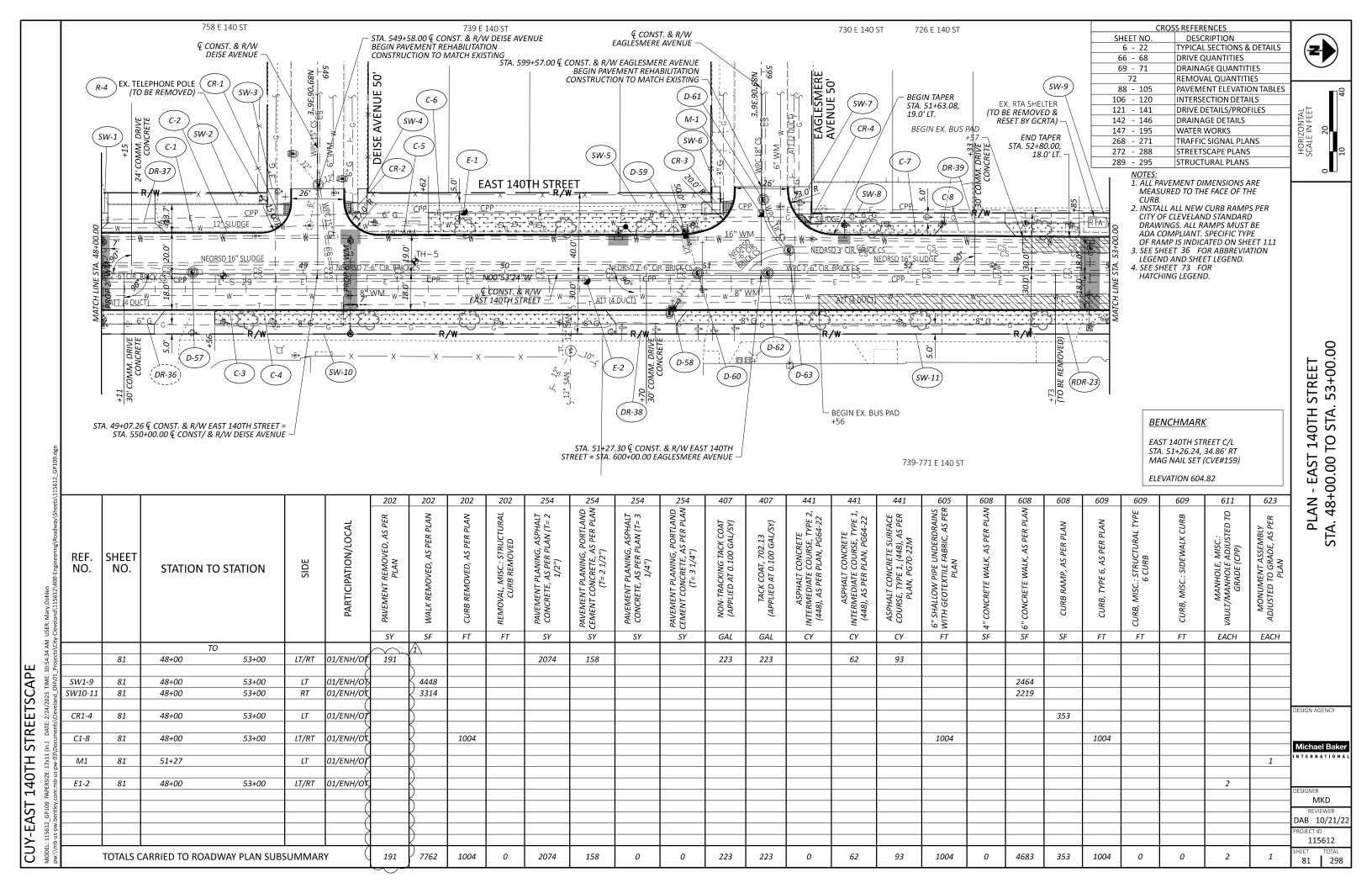
Michael Baker

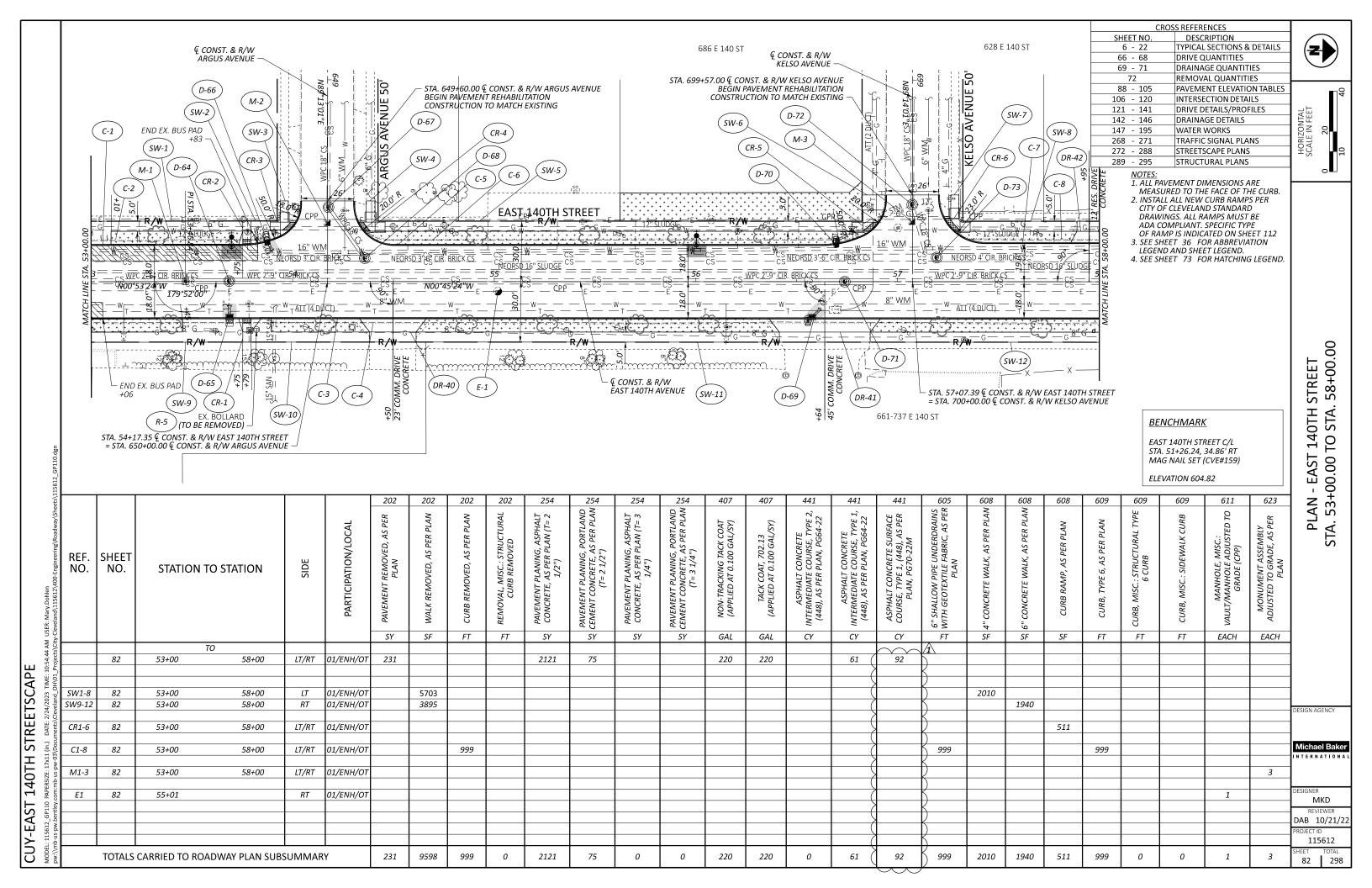
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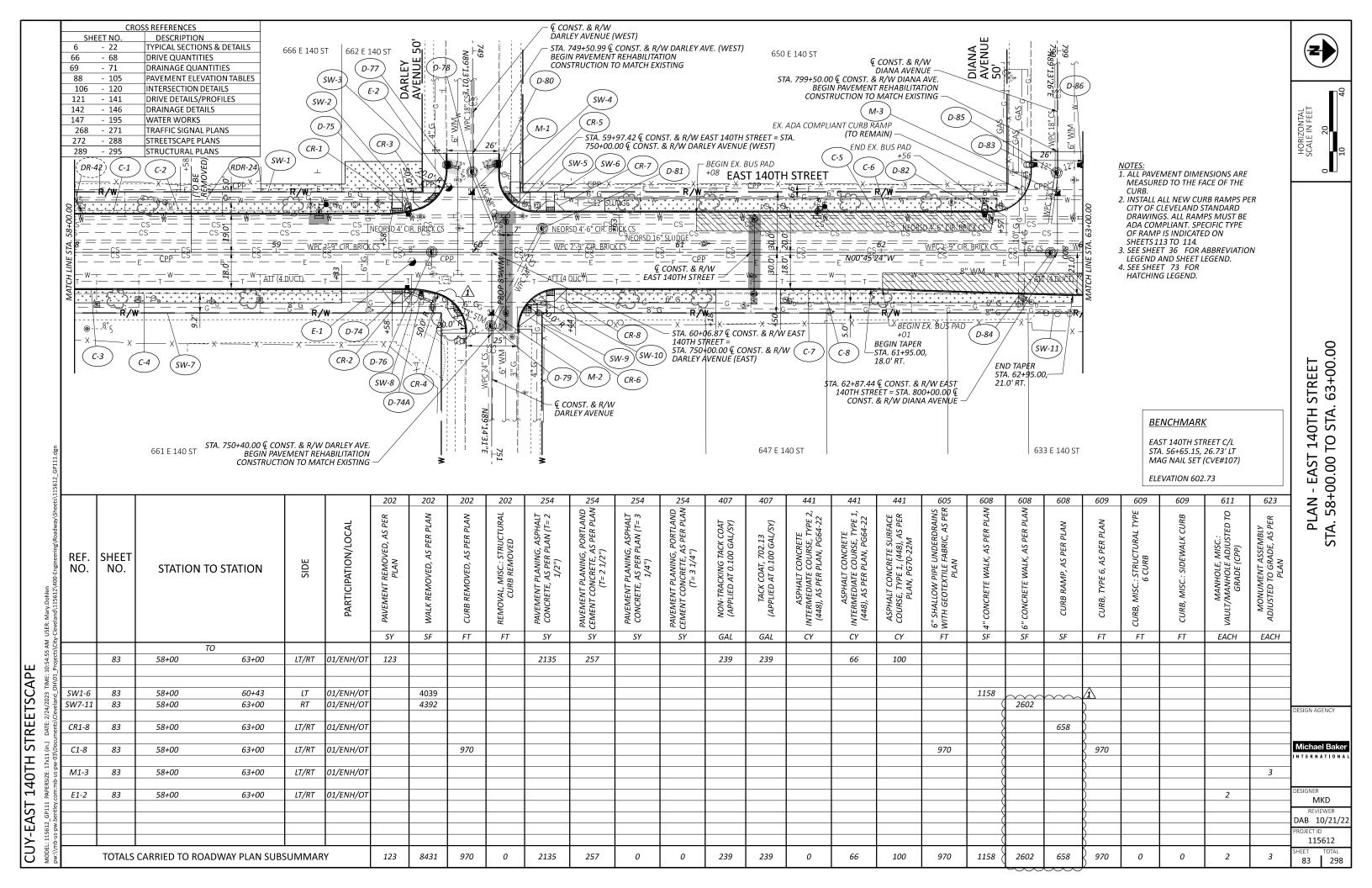
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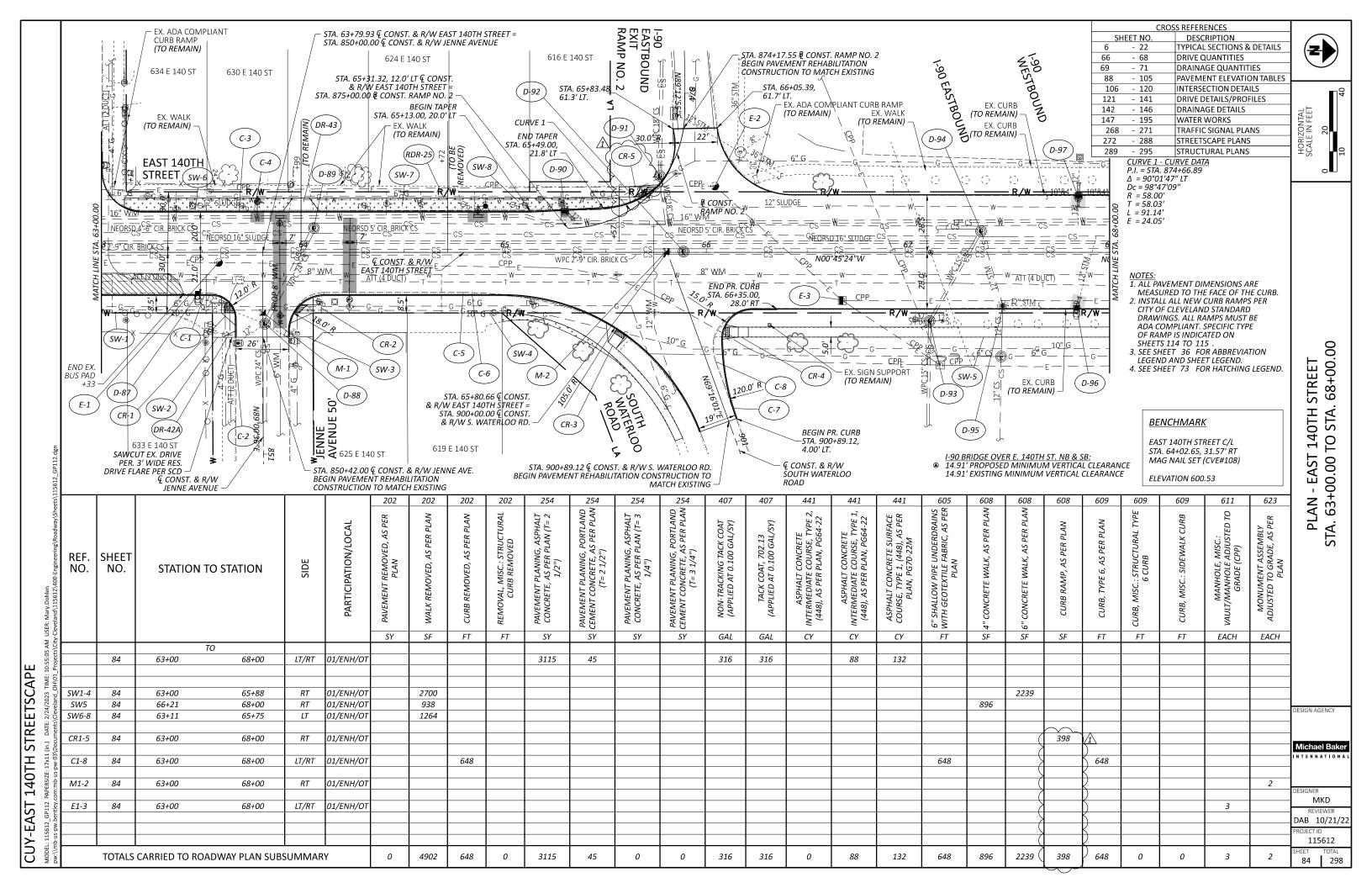


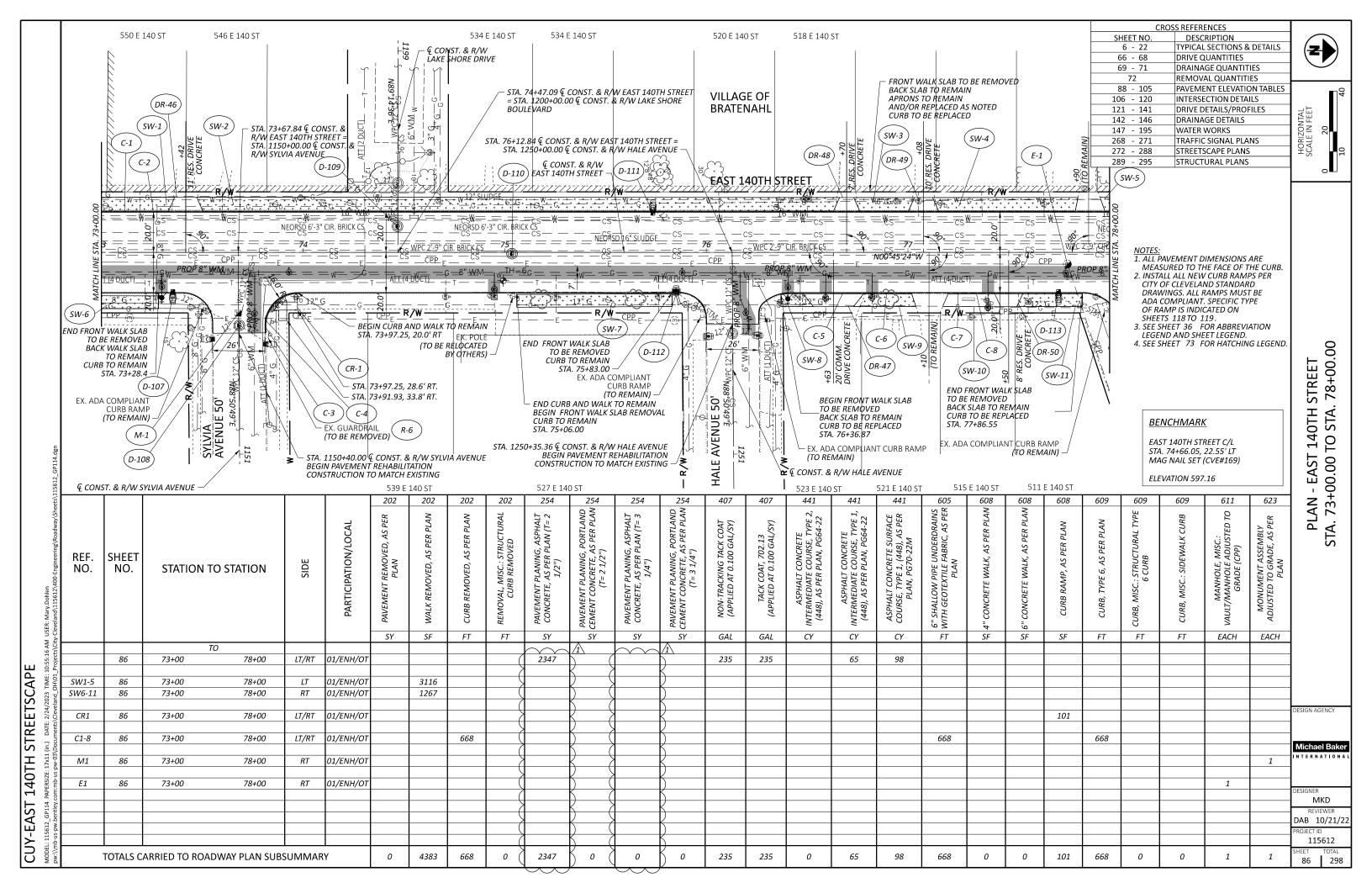


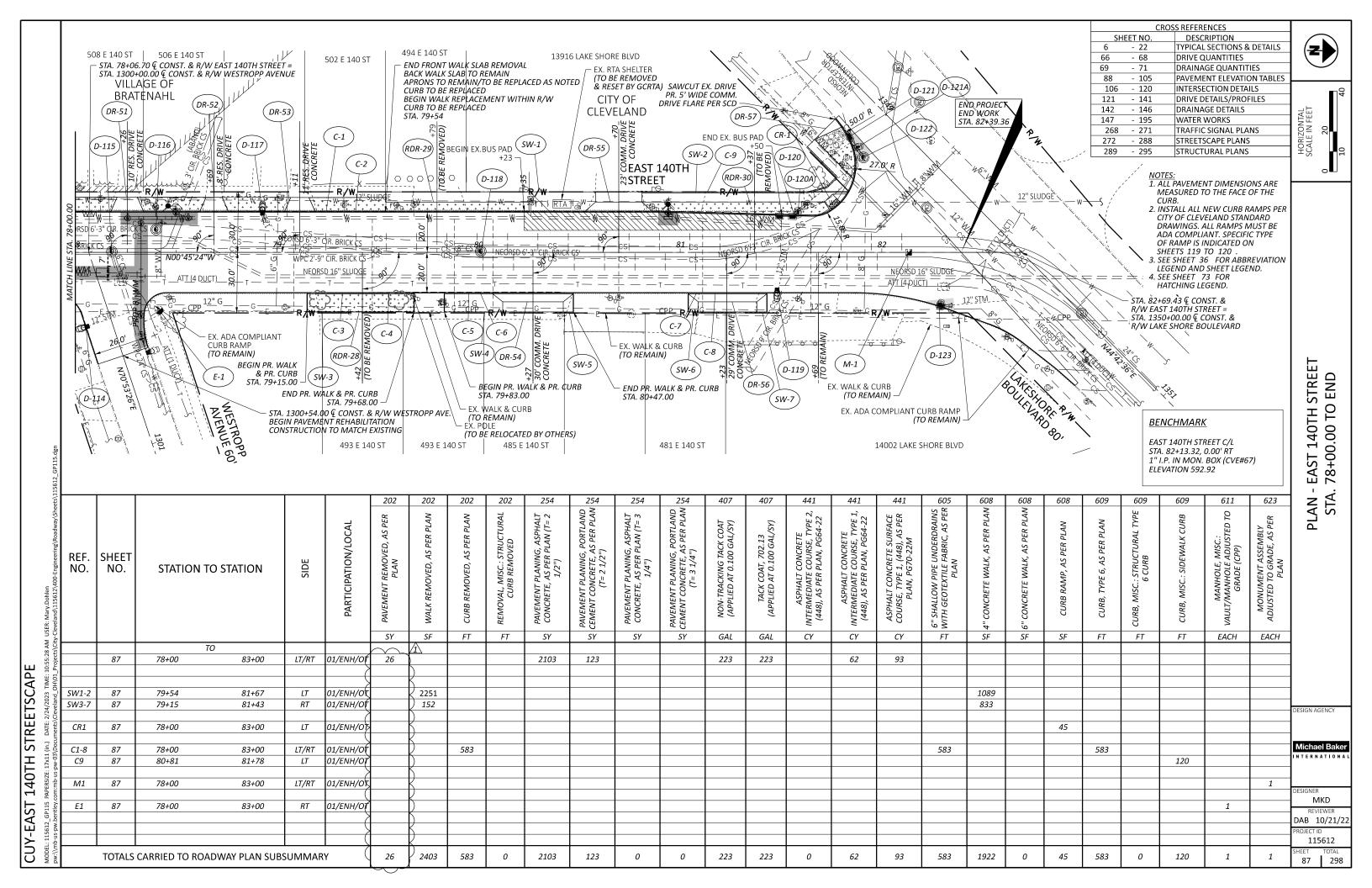












10:55:41 AM USER: Mary.Dohlen

TIME:

CUY-EAST 140TH STREETSCAPE



HORIZONTAL SCALE IN FEET 0 10

> INTERSECTION DETAIL EAST 140TH STREET & DARLEY AVENUE

DESIGN AGENCY

Michael Baker

JLD

REVIEWER

MKD 10/21/2

PROJECT ID

115612

SHEET TOTAL

SHEET TOTAL 113 298



HORIZONTAL SCALE IN FEET 0 10

> INTERSECTION DETAIL STREET & SOUTH WATERLOO ROAD

DESIGN AGENC

EAST 140TH

Michael Bake

KJM

REVIEWER

MKD 10/21/2:

PROJECT ID

PROJECT ID

115612

SHEET TOTAL

SHEET TOTAL **115 298**

WATER WORK (CONTINUED):

GENERAL REQUIREMENTS FOR GENERAL SERVICE/FIRE SERVICE CONNECTIONS (CONTINUED)

WHERE A GENERAL SUPPLY FOR FIRE SERVICE CONNECTION IS DISTURBED FOR LOWERING, RAISING AND/OR EXTENDING, IT SHALL BE EXTENDED IN A STRAIGHT PROLONGATION OF THE EXISTING CONNECTION. WHERE THE "PROPERTY SIDE" CONNECTION PIPING IS NOT IMMEDIATELY CONTIGUOUS TO THE EXTENDED CONNECTION CURB SHUTOFF, ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO RECONNECT SHALL BE INCLUDED IN THE WORK. ALL RECONNECTION ON THE "PROPERTY SIDE" OF THE CURB SHUTOFF. IF UPON INSPECTION OF THE "PROPERTY SIDE" PIPING IS FOUND UNSUITABLE FOR SUCH RECONNECTION, THE CONNECTION SHALL NOT BE DISTURBED UNTIL SUCH TIME AS THE ENGINEER/DESIGNER ENGINEER HAS ARRANGED FOR REPLACEMENT.

WHERE A COPPER CONNECTION IS ADVERTENTLY DAMAGED OR BROKEN WHICH WAS NOT TO BE DISTURBED, ONLY THE DAMAGED POTION NEEDS TO BE REPLACED. WHERE A LEAD/GALVANIZED CONNECTION IS ADVERTENTLY DAMAGED OR BROKEN WHICH WAS NOT TO BE DISTURBED, THE CONNECTION SHALL BE REPLACED AS NOTED IN THESE NOTES A AT THE CONTRACTOR'S EXPENSE. IF THE EXTENT OF THE DAMAGE TO THE CONNECTION CANNOT BE FULLY ASSESSED, THE CONNECTION SHALL BE REPLACED AS NOTED, AT THE CONTRACTOR'S EXPENSE.

ALL GENERAL SUPPLY AND FIRE SERVICE CONNECTIONS SHALL BE LAID NOT LESS THAN SIX (6) FEET BELOW ESTABLISHED STREET GRADE AND NOT LESS THAN FIVE AND ONE-HALF (5-1/2) FEET BELOW GROUND SURFACE.

ITEM SPECIAL - RETAP, RECONNECT AND EXTEND 1 1/2-INCH AND SMALLER AND 2-INCH WATER SERVICE CONNECTIONS, AS PER CWD

WATER SERVICE CONNECTION REPLACEMENTS SHALL CONFORM TO STANDARD DRAWING NOS. PVC-CO1 AND PVC-CO3. WORK SHALL INCLUDE REMOVAL OF EXISTING SERVICE CONNECTION PIPING, CURB VALVES, TAPPING VALVES, SERVICE VALVES, VALVE BOXES AND APPURTENANCES. WORK SHALL ALSO INCLUDE NEW TAPPING SADDLES, VALVES, CURB VALVES, VALVE BOXES, COPPER PIPING, EXCAVATION, BACKFILL, TRENCH SUPPORTS AND PIPE CONNECTIONS.

EXISTING WATER SERVICE CONNECTIONS 1- INCH AND SMALLER SIZE SHALL BE REPLACED WITH 1- INCH WATER SERVICE CONNECTIONS. EXISTING 1 1/2- INCH AND 2- INCH SIZE WATER SERVICE CONNECTIONS SHALL BE REPLACED WITH THE SAME SIZE CONNECTIONS AS THE EXISTING LINE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL FOR THE WORK TO BE PERFORMED HEREIN. ALL WORK, MATERIAL AND ARRANGEMENTS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE CITY OF CLEVELAND DIVISION OF WATER. THE DIVISION OF WATER RESERVES THE RIGHT TO DETERMINE THE CONFIGURATION OF ALL WATER SERVICE CONNECTIONS INSTALLATION. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND DO ALL WORK INCLUDING PROVIDING ALL TRAFFIC MAINTENANCE; PROVIDING AND MAINTAINING TRAFFIC CONTROL; AND WARNING DEVICES, INCLUDING TEMPORARY AND PERMANENT PAVEMENT MARKINGS; PAVEMENT CUTTING (BOTH FOR TRENCH AND FOR PAVEMENT REMOVAL AND RESTORATION); ALL EXCAVATIONS, INCLUDING PAVEMENTS, WATER MAIN TRENCH AND SEWER AND/OR UTILITY TRENCHES; TUNNELING AND BORING AND/OR JACKING; SHEETING AND SHORING, INCLUDING USE OF TRENCH BOX.

ALL SHOP DRAWING SUBMITTALS; THE FURNISHING AND INSTALLING OF ALL APPROVED MATERIALS AS HEREIN SPECIFIED AND AS REQUIRED TO COMPLETE THE WORK; SAND BEDDING BACKFILL; BACKFILL AND/OR PREMIUM BACKFILL; TESTING AND THE REPAIR AND/OR REPLACEMENT OF MATERIALS DUE LEAKAGE OR DEFECTS; PAVEMENT REPLACEMENT EXCEPT FOR ASPHALT INTERMEDIATE AND ASPHALT SURFACE COURSES, INCLUDING BASE PAVEMENT REPLACEMENT, BERM REPLACEMENT/REPAIR AND SHOULDER REPLACEMENT/REPAIR; FINAL PAVEMENT RESTORATION, INCLUDING TRAFFIC MARKINGS, SIGNS AND TRAFFIC LOOPS DETECTORS; PROTECTING AND MAINTAINING UTILITIES AND UTILITY SERVICES; REPAIR OF SITE DAMAGE DUE TO CONSTRUCTION, INCLUDING TRAFFIC MAINTENANCE; AND FINAL SITE RESTORATION; ALL AS REQUIRED FOR THE PROPER COMPLETION OF THE WORK INCLUDED UNDER THIS CONTACT. THE DIVISION OF WATER WILL INSTALL THE PRESSURE TAP. THE WORK OF BORING AND/OR JACKING AND EXCAVATION FOR SERVICE CONNECTIONS SHALL BE AS HEREIN SPECIFIED TO COMPLETE THE WORK. SEE SHEET 17 FOR PAVEMENT RESTORATION DETAIL.

ITEM 638- WATER WORK, MISC.: TEMPORARY WATER SERVICE CONNECTION ITEM 638 - WATER WORK, MISC.: TEMPORARY WATERLINE

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL TEMPORARY WATER MAINS AND TEMPORARY SERVICE CONNECTIONS AS SPECIFIED AND OF SUCH SIZE AS TO PROVIDE A SUFFICIENT WATER SUPPLY DURING CONSTRUCTION. THE FAILURE OF THE CONTRACTOR TO INSTALL TEMPORARY MAINS OF SUFFICIENT SIZE MAY MAKE THE CONTRACTOR LIABLE WHERE CONFLAGRATION DUE TO LACK OF WATER FOR FIRE PROTECTION MAY GIVE RISE TO ACTIONABLE CLAIMS FOR DAMAGES CHARGEABLE TO THE CONTRACTOR BY REASON OF SAID FAILURE. DUE TO WATER CONNECTION REQUIREMENTS AND WEATHER CONDITIONS, THE OPERATION OF TEMPORARY WATER SERVICE SYSTEMS SHALL BE PERFORMED BETWEEN APRIL 15TH AND NOVEMBER 1ST. ALL TEMPORARY WATER MAINS SHALL BE DISCONNECTED BY NOVEMBER 1ST.

THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, TOOLS, MATERIAL AND EQUIPMENT FOR TEMPORARY WATER MAINS AND SERVICE CONNECTIONS WHERE SERVICE CONNECTIONS ARE ENCOUNTERED ON THE MAINS TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE, INSTALL AND REMOVE TEMPORARY WATER MAINS AND TEMPORARY CONNECTIONS TO ALL PREMISES AND SERVICES IN A MANNER SUCH THAT WATER SERVICE CONTINUES UNINTERRUPTED. TEMPORARY WATER MAINS SHALL BE PLACED ON ONE OR BOTH SIDES OF THE STREET SO AS TO PROVIDE SERVICE ONLY TO THOSE CONNECTIONS ON THE SIDE OF THE STREET ON WHICH THE PARTICULAR TEMPORARY MAIN IS LOCATED. THE TEMPORARY MAINS SHALL NOT OBSTRUCT ANY STREETS, SIDEWALK OR DRIVEWAYS. TEMPORARY WATER MAINS THAT CROSS DRIVEWAYS AND SIDEWALKS SHALL BE RAMPED WITH RUBBERIZED/NEOPRENE TYPE RAMPING; NO ASPHALT OR STONE RAMPING SHALL BE ALLOWED FOR THIS PURPOSE.

THE TEMPORARY WATER MAIN FOR ORDINARY SIZE SERVICE CONNECTIONS (1" OR LESS) SHALL BE A MINIMUM OF 2" INSIDE DIAMETER PIPE AND FITTINGS WITH SUPPLEMENTAL 2" CONNECTIONS FROM EXISTING FIRE HYDRANTS OR TAPS ON ADJACENT EXISTING WATER MAINS. THE TEMPORARY WATER MAIN FOR SERVICE CONNECTIONS LARGER THAN 1" SHALL BE A MINIMUM OF 4" INSIDE DIAMETER. MINIMUM SIZE REQUIREMENTS FOR TEMPORARY BYPASS WATER LINES SHALL IN ADDITION INCLUDE A 4-INCH MINIMUM INSIDE DIAMETER PIPE ON AT LEAST ONE SIDE OF ANY STREET WHERE A WATER MAIN IS BEING REHABILITATED BY CLEANING AND LINING OR IS TAKEN OUT OF SERVICE BECAUSE OF ANY WORK BEING PERFORMED UNDER THIS CONTRACT. IF CLEVELAND WATER DEPARTMENT IS OF THE OPINION THAT THE SIZE OF THE TEMPORARY WATER MAIN TO BE FURNISHED AT ANY POINT IS NO SUFFICIENT, THE CLEVELAND WATER DEPARTMENT MAY MAY ORDER 6" INSIDE DIAMETER OR 8" INSIDE DIAMETER SIZE TO BE USED. WHERE TRAFFIC OR OTHER CONDITIONS WARRANT, THE CLEVELAND WATER DEPARTMENT MAY ALSO ORDER THAT ONLY GALVANIZED STEEL BYPASS PIPE AND FITTINGS BE USED. THIS MATERIAL REQUIREMENT, WHEN ORDERED IS NOT COUPLED TO THE SIZING REQUIREMENTS; THE CLEVELAND WATER DEPARTMENT MAY REQUIRE SUCH MATERIAL ON ANY SIZE BYPASS PIPE. THE CONTRACTOR IS HEREWITH NOTIFIED THAT NO EXTRA ALLOWANCE OR PAYMENT WILL BE MADE BASED ON LENGTH, SIZE OR MATERIAL OF TEMPORARY BYPASS PIPE WHERE ADDITIONAL LENGTHS, INCREASE SIZES OR ALTERNATE MATERIALS ARE REQUIRED OR ORDERED TO PROVIDE ACCEPTABLE AND RELIABLE SERVICE AS DETERMINED BY THE CLEVELAND WATER DEPARTMENT. THE COMPLIANCE WITH SUCH ORDERS BY THE CONTRACTOR SHALL NOT RELIEVE OR RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE ADEQUATE TEMPORARY WATER SERVICE. PAYMENT FOR ALL WORK REQUIRED AS SPECIFIED SHALL BE INCLUDED IN THE BID ITEMS FOR TEMPORARY WATER LINE AND SERVICE CONNECTIONS.

THE CONTRACTOR SHALL PROVIDE ENOUGH ISOLATION VALVES IN THE TEMPORARY WATER MAIN SYSTEM SUCH THAT PIPE SEGMENTS ON EACH SIDE OF THE STREET OF EACH STREET BLOCK CAN BE ISOLATED. IN NO CASE SHALL SEGMENTS OF PIPE BETWEEN VALVES BE LONGER THAN 1000 FEET.

MINIMUM FLOWS THAT SHALL BE AVAILABLE FROM TEMPORARY BYPASS WATER LINES, 4-INCH IN DIAMETER OR LARGER. SHALL BE:

- 1. ON THE RESIDENTIAL DEAD END AND SIDE STREETS WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OF 600 GALLONS PER MINUTE (GPM) AT A 20 POUND PER SQUARE INCH (PSI) RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATER LINE.
- 2. ON RESIDENTIAL MAIN OR THROUGH STREETS CONNECTING TWO (2) OR MORE DEAD END OR SIDE STREETS WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OR 1,000 GPM AT A 20 PSI RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATERLINE.
- 3. ON A STREET IN COMMERCIAL, INDUSTRIAL OR MULTI-FAMILY COMPLEX AREAS, WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OF 1,300 GPM AT 20 PSI RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATERLINE.

THE CONTRACTOR SHALL GUARANTEE THE AVAILABILITY OF WATER AT A SUFFICIENT PRESSURE AND QUANTITY TO SUPPLY THE TEMPORARY BYPASS LINES. UPON REQUEST OR THE CONTRACTOR, TEST FOR WATER AVAILABILITY WILL BE MADE BY THE CLEVELAND WATER DEPARTMENT, BOTH AS TO SYSTEM SUPPLY AND ADEQUACY OF TEMPORARY BYPASS LINES AND SERVICE CONNECTION SUPPLY, INCLUDING DOMESTIC AND FORE LINE CONNECTIONS. THE CONTRACTOR WILL BE NOTIFIED OF THE TIME OF EACH TEST AND SHALL WITNESS THE TEST WHEN POSSIBLE. FAILURE OF THE CONTRACTOR TO WITNESS SAID TEST SHALL BE CONSIDERED AS ACCEPTANCE OF THE FINDINGS. ANY RE-TESTING SHALL BE A T THE EXPENSE OF THE CONTRACTOR.

THE TEMPORARY WATER MAIN PIPE AND ALL APPURTENANCES SHALL BE FURNISHED AND RETAINED BY THE CONTRACTOR. THE TEMPORARY WATER MAIN PIPE AND APPURTENANCES
THE TEMPORARY WATER MAIN PIPE AND ALL APPURTENANCES SHALL BE FURNISHED AND RETAINED BY THE CONTRACTOR. THE TEMPORARY WATER MAIN PIPE AND APPURTENANCES FURNISHED SHALL BE CLEAN AND IN SUCH CONDITION THAT IT MAY BE TESTED, FLUSHED AND SUBJECTED TO AND PRODUCE SATISFACTORY WATER SAMPLES AS REQUIRED BY THE CLEVELAND WATER DEPARTMENT. ALL CONNECTING AND RECONNECTING OF SERVICE CONNECTIONS SHALL BE MADE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE CLEVELAND WATER DEPARTMENT. THE CONTRACTOR SHALL SUBMIT FOR THE CLEVELAND WATER DEPARTMENT'S APPROVAL A PLAN OF THE PROPOSED BYPASS SYSTEM AT LEAST TWO (2) WEEKS BEFORE PLANNED WORK. THE TEMPORARY BYPASS PLAN SHALL INCLUDE A DIAGRAM SHOWING WHERE THE TEMPORARY VALVES WILL BE PLACED. NO WORK IN ANY SPECIFIC AREA SHALL COMMENCE UNTIL A BYPASS PLAN HAS BEEN APPROVED BY THE CLEVELAND WATER DEPARTMENT.

THE CONTRACTOR SHALL FURNISH ALL TEMPORARY WATER MAINS AND APPURTENANCES, INCLUDING THE FURNISHING, INSTALLING, REMOVING AND RELOCATING OF TEES, PLUGS, CAPS, OUTLETS, VALVES, RISERS, CLAMPS AND BLOCKING. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER MAIN PROTECTION WHERE TEMPORARY MAINS OR SERVICES CROSS SIDEWALKS, DRIVEWAYS, OR ROADWAYS. TEMPORARY WATER MAINS THAT CROSS DRIVEWAYS AND SIDEWALKS SHALL BE RAMPED WITH RUBBERIZED/NEOPRENE TYPE RAMPING; NO ASPHALT OR STONE RAMPING SHALL BE ALLOWED FOR THIS PURPOSE. ALL LINES CROSSING STREETS SHALL BE TRENCHED ACROSS TO ALLOW BYPASS PIPE TO LIE FLUSH WITH THE PAVEMENT SURFACE. NO RAMPING WILL BE ALLOWED ON STREET CROSSINGS EXCEPT FOR SIDE STREETS APPROVED BY THE CLEVELAND WATER DEPARTMENT. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTARY CONNECTIONS WHERE VALVES WITH NIPPLES HAVE BEEN REMOVED, WHERE ADJACENT WATER MAINS CONNECT, OR WHERE ORDERED BY THE CLEVELAND WATER DEPARTMENT.

THE CONTRACTOR SHALL FURNISH NECESSARY HOSES, VALVES, PIPE AND FITTINGS FOR WATER SERVICE CONNECTIONS. THE CONTRACTOR SHALL ONLY CONNECT TO AN OUTSIDE HOSE BIB OR SILL COCK, UNLESS OTHERWISE APPROVED BY THE CLEVELAND WATER DEPARTMENT. ALL CONNECTIONS TO OUTSIDE HOSE BIBS OR SILL COCKS SHALL BE SUPPLIED WITH Y CONNECTORS.

THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO SHUT OFF CONNECTIONS AT THE SERVICE STOP BOX WHERE POSSIBLE. IF A SERVICE STOP BOX IS NOT AVAILABLE, THE CONTRACTOR SHALL SHUT OFF THE CONNECTIONS INSIDE THE RESIDENCE OR BUILDING, AND SHALL CLEAR SERVICE CONNECTIONS USING INTERNAL PLUMBING. THE CONTRACTOR SHALL NOT BE PAID ANY EXTRA ALLOWANCE IF REQUIRED TO SHUT A CONNECTION WITHIN A BUILDING OR CLEAR SERVICE CONNECTIONS USING INTERNAL PLUMBING. ALL SUCH COSTS SHALL BE INCLUDED IN THE BID.

THE SIZE OF THE TEMPORARY CONNECTION SHALL BE OF AT LEAST THE SAME SIZE AS THE PERMANENT CONNECTION THAT HAS GONE TO THE BUILDING UNLESS THE CONNECTION IS LARGER THAN THE BYPASS PIPING. IF THE PERMANENT CONNECTION IS LARGER THAT THE BYPASS PIPING, THEN THE TEMPORARY CONNECTION WILL BE OF THE SAME SIZE AS THE BYPASS PIPING.

THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, TOOLS, MATERIAL AND EQUIPMENT TO PROVIDE, INSTALL AND REMOVE 4" TEMPORARY FIRE HYDRANT OUTLET ASSEMBLIES ON THE TEMPORARY WATER MAINS. THE 4" TEMPORARY FIRE HYDRANT OUTLET ASSEMBLY SHALL BE COMPLETE AND COMPLY WITH DRAWING STD-H14. THE CONTRACTOR SHALL PROVIDE PROTECTION IN STREETS, SIDEWALKS AND DRIVEWAYS. THE TEMPORARY HYDRANTS SHALL HAVE OPERATING NUTS OF THE SLOTTED TYPE; NO PENTAGON NUTS SHALL BE USED.

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL 4" TEMPORARY FIRE HYDRANT OUTLET ASSEMBLIES AT EACH LOCATION WHERE A PERMANENT FIRE HYDRANT IS TAKEN OUT OF SERVICE OR USED FOR A TEMPORARY WATER MAIN CONNECTION UNLESS SPECIFICALLY WAIVED BY THE DIRECTOR WITH THE CONCURRENCE OF CHIEF OF THE DIVISION OF FIRE, OR THE SUBURBAN FIRE CHIEF. THE CONTRACTOR SHALL ALSO PROVIDE ADDITIONAL HYDRANTS WHERE SO ORDERED BY THE CLEVELAND WATER DEPARTMENT.

THE TEMPORARY WATER MAINS SHALL BE FLUSHED AND SUCCESSFULLY SAMPLED BEFORE BEING PLACED INTO SERVICE. REFER TO THE SECTION IN THESE SPECIFICATIONS ON FLUSHING AND SAMPLING.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGES AND MAINTAIN TEMPORARY WATER SERVICE WHEN FREEZING WATER IS POSSIBLE. THE CONTRACTOR SHALL ENSURE THAT NO TEMPORARY CONNECTIONS FREEZE UP, AND THAT NO ICE FORMS ON ROADWAYS, SIDEWALKS OR OTHER ACCESS AREAS.

WHERE IN THE COURSE OF INSTALLING OR REMOVING TEMPORARY WATER LINES AND SERVICE CONNECTIONS, ANY PORTION OF THE PERMANENT SERVICE CONNECTION IS DISTURBED OR DAMAGED, IT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CLEVELAND WATER DEPARTMENT IN AMPLE TIME TO ASSESS THE EXTENT OF WORK REQUIRED AND INSPECT THE REPAIR OR REPLACEMENT SO AS TO AVOID UNNECESSARY DELAY IN RESTORING THE SERVICE CONNECTION. THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIALS, TOOLS AND EQUIPMENT AND SHALL DO ALL EXCAVATING, BACKFILLING AND REPAVING AS MAY BE REQUIRED. ODOT WILL MAKE NO SPECIFIC OR SEPARATE PAYMENT OR ALLOWANCE FOR SUCH WORK.

ITEM 638 - WATER WORK MISC.: TEMPORARY WATER SERVICE CONNECTION

<u>30</u> EACH

ITEM 638 - WATER WORK MISC.: TEMPORARY WATER LINE

ITEM 202 - REMOVAL MISC.: WATERLINE REMOVED, 24" AND UNDER

THIS ITEM SHALL INCLUDE ALL WORK ASSOCIATED WITH THE REMOVAL OF THE EXISTING WATERLINE, INCLUDING PAVEMENT REMOVAL, AND SHALL FOLLOW ODOT 202.04 AND CWD STANDARD CONSTRUCTION DRAWINGS.

ITEM 202 - REMOVAL MISC.: WATER VALVE BOX REMOVED

THIS ITEM SHALL INCLUDE ALL WORK ASSOCIATED WITH THE REMOVAL OF THE EXISTING WATER VALVE BOXES AND SHALL FOLLOW ODOT CMS 202.02 AND CWD STANDARD CONSTRUCTION DRAWINGS.



FAX: (440) 439-1969
PESIGNER
JPS
REVIEWER
BAK 11/29/22

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	4												4		4	661	14000	12	EA	12		PERENNIALS (No. 2 CONT.) - NEPETA FAASSENII 'WALKER'S LOW'		
	4												5			661	20020		EA	9		DECIDUOUS SHRUB, 18" HEIGHT - SPIRAEA JAPNONICA		
	2												2		2	661	30040		EA	6		EVERGREEN SHRUB, 18" HEIGHT - JUNIPERUS SQUAMATA 'BLUE STAR'		
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	1										-		1			690	98000	2	EA	2		SPECIAL - MONUMENT SIGN, TYPE A	273	4
44.275				1						-	-	-			1	690	98000	1	EA	1	4 275	SPECIAL - MONUMENT SIGN, TYPE B	273	-
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NOTE: ALL QUANTITIES CARRIED FROM SHEET SUBSUMMARIES



DESIGNER

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REVIEWER

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115612 SHEET TOTAL 272 298

- 1. THE ADMIXTURE SHALL BE A COLORED, WATER-REDUCING ADMIXTURE CONTAINING NO CALCIUM CHLORIDE WITH COLORING AGENTS THAT ARE LIMEPROOF AND UV RESISTANT. THE COLORED ADMIXTURE SHALL CONFORM TO THE FOLLOWING:
- ASTM C979 STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRALLY COLORED CONCRETE; COLOR TO BE DAVIS COLORS' OMAHA TAN, OR APPROVED EQUAL.
- ASTM C494 STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE
- AASHTO M194 CHEMICAL ADMIXTURES
- CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE.
- JOINT SEALERS SHALL BE COLOR-MATCHED TO THE CONCRETE AND FORMULATED FOR PEDESTRIAN TRAFFIC
- CONCRETE MIX IN ACCORDANCE WITH ITEM 451 SHALL BE USED EXCEPT AS MODIFIED HEREIN. SUBMIT DESIGN FOR APPROVAL:
- CALCIUM CHLORIDE SHALL NOT BE ADDED TO THE MIX.
- SUPPLEMENTAL ADMIXTURES, SUCH AS ADDITIONAL WATER-REDUCING ADMIXTURES, WATER-PROOFING AGENTS, AND SUPER PLASTICIZERS SHALL NOT BE USED.
- USE GRAY PORTLAND CEMENT, TYPE 1 OR 2.
- NO FLY ASH, MICRO SILICA SLAG, OR RECYCLED CONCRETE SHALL BE PERMITTED. COLOR ADDITIVES: MIX IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED WITHOUT MIXTURE AND DISINTEGRATING BAGS, IF USED, HAVE DISINTEGRATED.
- DO NOT ADD WATER TO THE MIX IN THE FIELD
- COLORED ADMIXTURE SHALL BE ADDED TO THE MIX PER MANUFACTURER'S WRITTEN INSTRUCTIONS IN A PREMEASURED BAG AND SHALL NOT BE ADDED BY WEIGHT OF CEMENT
- APPLY CURING COMPOUND FOR COLORED CONCRETE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS USING MANUFACTURER'S RECOMMENDED APPLICATION TECHNIQUES. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.
- STAMPED PATTERNS FOR THE SPECIALTY PAVING AREAS SHALL BE AS INDICATED ON THE PLANS. CONTRACTOR IS TO COORDINATE PATTERN WITH ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. PATTERN TO BE STAMPCRETE SEAMLESS TEXTURING STONE, OR APPROVED EQUAL
- THE CONCRETE SHALL BE PLACED AND CONSOLIDATED SO AS TO COMPLETELY FILL SPACES IN THE FORMS AND TO PROVIDE SUITABLE SURFACE FOR FINISHING. THE CONCRETE ADJACENT TO THE FORMS SHALL BE SPADED. ALL SURROUNDING SURFACES SHALL BE PROTECTED TO PREVENT DISCOLORATION. WATER MUST NOT BE SPRAYED ON THE SURFACE TO RETEMPER THE PLASTIC CONCRETE FOR ADDITIONAL TROWELING. HARD STEEL TROWELING SHALL BE MINIMIZED TO AVOID TROWEL BURNS.
- THE SEALANT MATERIAL AND INSTALLATION REQUIRED FOR THIS WORK SHALL BE AS RECOMMENDED BY THE COLORING MANUFACTURER. THE MATERIAL INVOLVED IN THIS APPLICATION SHALL BE GUARANTEED BY THE MANUFACTURER. THE GUARANTEE SHALL ENSURE THE MOISTURE PERFORMANCE OF THE SYSTEM FOR A PERIOD OF FIVE YEARS FROM THE DATE OF APPLICATION. PROVISIONS OF THE GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR WATER PENETRATIONS, CHLORIDE (SALT), AND FREEZE-THAW DAMAGE THROUGH STRUCTURALLY SOUND AREAS.
- 10. WORK INCIDENTAL TO THE THIS ITEM SHALL INCLUDE ALL ITEM 202, PAVEMENT REMOVAL INCLUDING SAWCUTTING, ITEM 203 EXCAVATION, ITEM 204 SUBGRADE COMPACTION AND GEOTEXTILE FABRIC, DOWELING, EXPANSION JOINTS, AND ITEM 304 AGGREGATE BASE (LIMESTONE ONLY) REQUIRED TO REMOVE AND REPLACE EXISTING PAVEMENT AT NEW PAVING AREAS PER DRAWINGS
- 11. THE FOLLOWING CONTINGENCY ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT FOR COMPLETED AND ACCEPTED QUANTITIES SHALL BE MADE AT THE CONTRACT UNIT BID

ITEM 608 - 6" CONCRETE WALK, AS PER PLAN B

PAYMENT TO BE MADE UNDER: ITEM 608. 6" REINFORCED CONCRETE PAVEMENT, AS PER PLAN B

(SQ. YD.)

100 SF

TREE PIT

WORK SHALL CONSIST OF CURBING AT TREE PITS PER CITY OF CLEVELAND DETAILS--SECTIONS A-A, AND B-B (PER PLANS) SHEET 235 OF THE CoC STANDARD CONSTRUCTION DRAWINGS. ALL EXCAVATION, SOIL, AND CURBING ARE TO BE PAID INCIDENTAL TO THE LENGTH OF ITEM 609:

ITEM 609 - CURB, MISC.: SIDEWALK CURB 120 LF

ITEM SPECIAL - METAL TRASH RECEPTACLE

WORK SHALL CONSIST OF FURNISHING AND SURFACE MOUNTING METAL TRASH RECEPTACLE. TRASH RECEPTACLE SHALL BE ONE OF THE FOLLOWING:

- VICTOR STANLEY IRONSITES (R) COLLECTION
- ULINE COURTYARD 36 GAL. TRASH CAN, MODEL #
- PARIS SITE FURNISHINGS' PREMIER 34 GAL LITTER RECEPTACLE

ITEM SPECIAL - METAL BICYCLE RACK

INSTALLATION TO BE SURFACE MOUNTED AND IN STRICT CONFORMANCE TO MANUFACTURER'S DETAILS AND RECOMMENDATIONS TO ENSURE VANDAL RESISTANCE. PAYMENT TO BE MADE UNDER: ITEM 690 - SPECIAL- METAL TRASH RECEPTACLE (FACH)

WORK SHALL CONSIST OF FURNISHING AND SURFACE MOUNTING BICYCLE RACKS. BICYCLE RACK RACK SHALL BE ONE OF THE FOLLOWING:

- "LOOP BIKE RACK" BY LANDSCAPE FORMS, COLOR: BLUE ASH
- ULINE CIRCLE BIKE RACK, GALVANIZED, MODEL # H-6572GALV
- BELSON OUTDOORS SQUARE TUBE CIRCULAR W/STAINLESS STEEL FINISH

INSTALLATION TO BE EMBEDDED MOUNT AND IN STRICT CONFORMANCE TO MANUFACTURER'S DETAILS AND RECOMMENDATIONS TO ENSURE VANDAL RESISTANCE.

PAYMENT TO BE MADE UNDER: UNIT ITEM 690 - SPECIAL- METAL BICYCLE RACK

ITEM SPECIAL - METAL BENCH

WORK SHALL CONSIST OF FURNISHING AND SURFACE MOUNTING METAL BENCH. BENCH SHALL BE ONE OF THE FOLLOWING:

(EACH)

- VICTOR STANLEY CLASSIC COLLECTION #CBF-138,
- THE BENCH FACTORY 6' BROOKLYN BENCH
- BELSON OUTDOORS 6' ALUMINUM PARK BENCH, MODEL # CBPB-6A1B-BK

FINISH TO BE POWDER COATED, COLOR TO BE COORDINATED W/PUBLIC ART MURAL. INSTALLATION TO BE SURFACE MOUNTED AND IN STRICT CONFORMANCE TO MANUFACTURER'S DETAILS AND RECOMMENDATIONS TO ENSURE VANDAL RESISTANCE.

PAYMENT TO BE MADE UNDER: ITEM 690 - SPECIAL- METAL BENCH (EACH)

ITEM SPECIAL - MONUMENT SIGN

ITEM SPECIAL - MONUMENT SIGN, TYPE A ITEM SPECIAL - MONUMENT SIGN, TYPE B

WORK SHALL CONSIST OF CONSTRUCTION OF FREESTANDING CONCRETE WALLS PER DETAILS, THIS SHEET.

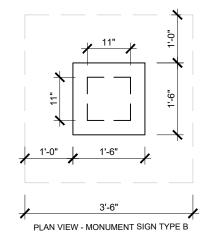
- BELDEN BRICK COMPANY, COLOR 830 DART-TEX
- OR APPROVED EQUAL

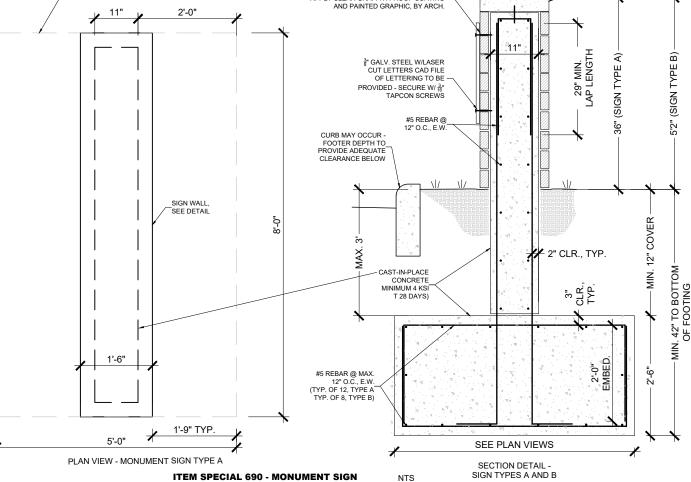
FACE BRICK TO BE APPLIED W/MORTAR PER MANUFACTURER'S RECOMMENDATIONS.

CONTRACTOR TO CONSTRUCT WALL MOCKUP IN FIELD. MOCKUP MAY BECOME PART OF FINISHED INSTALLATION IF

ITEM SPECIAL - PUBLIC ART FEE

LAND STUDIO AND THE CITY OF CLEVELAND WILL SELECT AN ARTIST TO PAINT THE MURAL ON THE RETAINING WALL BEING REHABILITATED NORTH OF THE CSX BRIDGE ON THE EAST SIDE OF EAST 140TH STREET. INCLUDED IN THIS LUMP SUM BID ITEM IS \$44,375 FOR DIRECT PAYMENT TO THE ARTIST OR PUBLIC ART AGENCY AS DIRECTED BY THE ENGINEER.





E. 140TH SIDE

FACE BRICK, TYP. BOTH SIDES RUNNING BOND SEE GENERAL NOTES, THIS SHEET;

APPLY CLEAR GRAFFITI PROOF COATING

6 EQ

ELEVATION - MONUMENT SIGN TYPE A

LAKESHORE SIDE

ELEVATION - MONUMENT SIGN TYPE B

TYPE A SIDE VIEW (14) 3/8" TAPCON SCREWS -

FOOTER BELOW

3" GALV. STEEL W/LASER CUT LETTERS CAD FILE OF LETTERING TO BE PROVIDED

(14) 3/8" TAPCON SCREWS

2" PRECAST CONC. CAP FINISHED SMOOTH SLOPE TO DRAIN FASTEN W/DOWEL AND CONSTR. ADHESIVE

LANDSCAPE/STREETSCAPE NOTES AND DETAILS

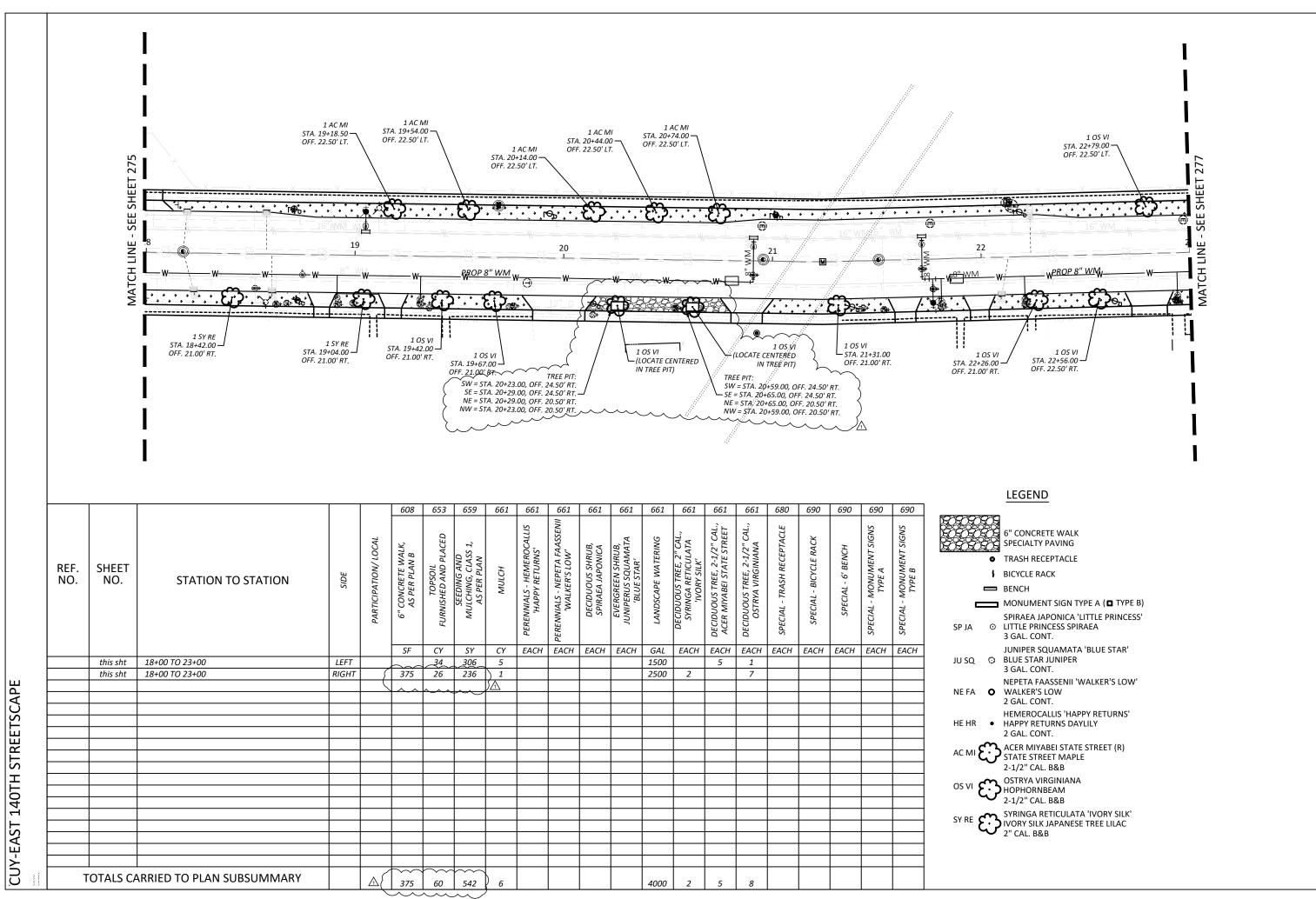
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FINISH TO BE POWDER COATED, COLOR TO BE COORDINATED W/PUBLIC ART MURAL





CAM

REVIEWER CAM 02-23-23

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276 TOTAL 298



HORIZONTAL SCALE IN FEET

PLAN - EAST 140TH STREET STA. 23+00.00 TO 28+00.00



CAM REVIEWER

CAM 02-23-23

115612 277 TOTAL 298