

**ITEM 202 - REMOVAL ITEMS**

THE COST OF REMOVING AND DISPOSING OF ITEMS PURSUANT TO ITEM 202.05 INCLUDING, BUT NOT LIMITED TO, SIDEWALK REMOVALS SHALL INCLUDE THE COST FOR SAW CUTTING.

**ITEM 253 - PAVEMENT REPAIR, MISC.: STREET OPENING REPAIR TYPE A AND TYPE B**

PAYMENT SHALL INCLUDE ALL MATERIALS AND WORK NECESSARY TO PERFORM PAVEMENT REPAIR TO THE LIMITS SHOWN IN THE PLANS PER THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING PR-1.

**ITEM 202 - WALK REMOVED, AS PER PLAN**

THE CONTRACTOR SHALL REMOVE ADA RAMPS TO AN 8-INCH DEPTH. IF THE PAVEMENT IS LESS THAN 8-IN THICK THE CONTRACTOR SHALL EXCAVATE TO A 8-IN DEPTH.

ALL OTHER SIDEWALKS SHALL BE REMOVED TO A 4-IN DEPTH. IF THE SIDEWALK IS LESS THAN 4-IN THICK THE CONTRACTOR SHALL EXCAVATE TO A 4-IN DEPTH.

EXCAVATED SOILS ARE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF COMPLETELY OFF-SITE.

SIDEWALK SHALL BE REMOVED AT THE NEAREST JOINT. EDGES OF EXISTING CONCRETE SHALL BE SAWCUT SMOOTH.

THE COST FOR EXCAVATION, SOIL REMOVAL, AND SAW CUTTING SHALL BE INCIDENTAL TO THIS ITEM. ALL ITEMS TO RESTORE AREAS WHERE WALK IS REMOVED AND NOT REPLACED, SUCH AS BUT NOT LIMITED TO TOPSOIL, SEEDING, AND MULCHING, SHALL BE INCIDENTAL TO THIS ITEM. NO SEPARATE PAYMENT WILL BE MADE.

**ITEM 608 - 4" CONCRETE WALK, AS PER PLAN**

ALL CONCRETE SHALL BE A MINIMUM OF 4-IN AND HAVE A 2-IN COMPACTED SCREENING BED WHICH MEETS THE REQUIREMENTS 703.10 (LIMITED TO CRUSHED STONE). THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO EXCAVATE, PLACE AND COMPACT SCREENING BED, LAYOUT AND FORM WORK, AND PLACEMENT OF NEW CONCRETE WALK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608-4 IN CONCRETE WALK, AS PER PLAN. IN ADDITION AND WHERE APPLICABLE, THIS ITEM INCLUDES THE PRUNING OF OBSTRUCTING TREE ROOTS.

WHEN DECORATIVE WALK IS ENCOUNTERED, CONTRACTOR SHALL REMOVE THE BRICK AND SALVAGE FOR REUSE. ANY DECORATIVE WALK OUTSIDE THE CURB RAMP AREA IS TO BE REINSTALLED.

PER 608.03 (C), IT IS REQUIRED THAT 1/2-IN THICK EXPANSION JOINT MATERIAL (705.03) BE INSTALLED BETWEEN THE WALK AND THE BACK OF CURB OR ANY OTHER FIXED OBJECT, IN ADDITION TO THE LOCATION SPECIFIED UNDER 608.03(C). TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FT 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. THE TOP 1/2-IN OF THE EXPANSION JOINTS PLACED BETWEEN THE WALK AND THE 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 PREVIOUS FORM JOINTS AND OUTSIDE EDGES OF THE WALK. (I.E. PICTURE FRAME).

LIMITS SHOWN ON THE PLANS MAYBE ADJUSTED IN THE FIELD AS APPROVED BY THE ENGINEER TO ENSURE THAT POSITIVE DRAINAGE CAN BE OBTAINED.

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

CONSTRUCT IN PLACE CONCRETE ITEMS IN ACCORDANCE WITH THE ODOT CMS, EXCEPT AS MODIFIED BY GENERAL NOTE "CONCRETE MIX DESIGN (CLEVELAND 650)" AND OTHER GENERAL NOTES WITHIN THE PLAN SET. ALL COMPLETE IN PLACE ITEMS WILL INCLUDE THE REMOVAL OF THE ITEM PER SECTION 202.05 IN THE ODOT CMS.

**CONCRETE MIX DESIGN (CLEVELAND 650)**

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

**PAVEMENT WARPING - AS DIRECTED BY THE ENGINEER**

CONTINGENCY QUANTITIES HAVE BEEN PROVIDED FOR PAVEMENT WARPING. AT THE DIRECTION OF THE ENGINEER, THE THE CONTRACTOR SHALL USE THESE QUANTITIES TO ENSURE POSITIVE DRAINAGE AT THE INTERSECTIONS LISTED BELOW OR AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER:

MAYFIELD ROAD & MURRAY HILL ROAD  
LARCHMERE BOULEVARD & EAST 122ND STREET  
LARCHMERE BOULEVARD & EAST 126TH STREET  
LARCHMERE BOULEVARD & EAST 127TH STREET  
LARCHMERE BOULEVARD & EAST 128TH STREET  
LARCHMERE BOULEVARD & EAST 130TH STREET

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PAVEMENT WARPING:

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PR64-22 17 CY  
ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 400 SY

**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 RAMPS AND LANDINGS THAT CONFORM TO THE CITY OF CLEVELAND CURB RAMP STANDARD DRAWINGS. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TYPE OF CURB RAMP PROPOSED IN THE PLANS. UPON FINDING ANY DISCREPANCY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER/INSPECTOR TO RESOLVE THE ISSUE. NO ADDITIONAL PAYMENT SHALL BE MADE IF THE CURB RAMP TYPE IS CHANGED OR FOR FIELD ADJUSTMENTS NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP.

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

DETECTABLE WARNING DEVICES SHALL CONFORM TO 712.14 AND SHALL CONSIST OF TRUNCATED DOME TILES TINTED BRICK RED. THE TRUNCATED DOMES SHALL HAVE A NOMINAL DIAMETER OF 0.9 INCHES AND A NOMINAL HEIGHT OF 0.2 INCHES. 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 IN FROM THE CURB LINE OR OTHER POTENTIAL HAZARD.

PAYMENT SHALL BE MEASURED PER SQUARE FOOT FOR CURB RAMP AREAS AS INDICATED IN THE CITY OF CLEVELAND STANDARD DRAWINGS, TYPE 1 THROUGH TYPE 11. THE CURB RAMPS PAY LIMITS ARE INDICATED ON THE PLAN SHEETS. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT THE NEW CURB RAMP, COMPLETE IN PLACE. PAYMENT INCLUDES SURVEYING, CONSTRUCTION LAYOUT, FORMWORK, REPLACEMENT OF 2-IN SCREENING BEDS, PLACEMENT OF SIDEWALK AND CURB CONCRETE FOR NEW RAMP, AND FURNISH AND PLACEMENT OF NEW DETECTABLE WARNINGS WITHIN THE PROPOSED RAMP AREAS. ALL SAW CUTTING, APPURTENANCES, AND OTHER WORK NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL TOPSOIL, SEEDING, AND MULCHING REQUIRED ADJACENT TO THE CURB RAMP SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEEDING MIX SHALL CONFORM TO ODOT CMS 659.08 HIGH QUALITY SEEDS, CLASS 1.

CURB RAMPS ARE SHOWN ON THE PLANS FOR ESTIMATING PURPOSES. WORK BEYOND THE LIMITS OF THE CURB RAMP AREA SHALL BE PAID UNDER SEPARATE PAY ITEMS.

LIMITS SHOWN ON THE PLANS MAYBE ADJUSTED IN THE FIELD AS APPROVED BY THE ENGINEER TO ENSURE COMPLIANCE WITH ADA REQUIREMENTS AND TO ENSURE THAT POSITIVE DRAINAGE CAN BE OBTAINED.

CONSTRUCT IN PLACE CONCRETE ITEMS IN ACCORDANCE WITH THE ODOT CMS, EXCEPT AS MODIFIED BY GENERAL NOTE "CONCRETE MIX DESIGN (CLEVELAND 650)" AND OTHER GENERAL NOTES WITHIN THE PLAN SET. ALL COMPLETE IN PLACE ITEMS WILL INCLUDE THE REMOVAL OF THE ITEM PER SECTION 202.05 IN THE ODOT CMS.

**CONTINGENCY QUANTITIES**

THE FOLLOWING QUANTITIES ARE FORWARDED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

10 CY ITEM 203 EXCAVATION  
10 CY ITEM 203 EMBANKMENT  
100 SY ITEM 659 SEEDING AND MULCHING, CLASS 1  
5 CY ITEM 659 TOPSOIL  
1M GAL ITEM 659 WATER

**EROSION CONTROL**

**ITEM 659 - SEEDING AND MULCHING, CLASS 1**

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

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER, AND AS IN ADDITION TO THE PLAN ESTIMATED QUANTITY:

ITEM 659 - SEEDING AND MULCHING, CLASS 1 - 2000 SY  
ITEM 659 - TOPSOIL (4" AVERAGE) - 222 CY  
ITEM 659 - COMMERCIAL FERTILIZER - 0.41 TON  
ITEM 659 - WATER - 11 MGAL

**ITEM 832 - EROSION CONTROL, AS PER PLAN**

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE SPECIFIED HEREIN OR DIRECTED BY THE ENGINEER SHALL BE IN PLACE PRIOR TO ANY EXCAVATION.

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

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS PLACED BY THE CONTRACTOR WITH THE ENGINEER'S CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 832 - EROSION CONTROL, AS PER PLAN - 30,000 EACH

**WATER SUPPLY**

WATER WILL BE SUPPLIED TO THE CONTRACTOR AT THE NEAREST HYDRANT. THE COST OF THE WATER SUPPLY SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMIT FROM THE CITY OF CLEVELAND WATER DEPARTMENT.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE APPROVED STANDARD TIGHT HOSE AND FITTINGS WITH WHICH TO MAKE CONNECTIONS TO HYDRANTS AND OUTLETS. NO IMPROPER, WASTEFUL OR UNDUE USE OF WATER WILL BE PERMITTED.

**DRAINAGE**

**ITEM 611 - MANHOLE, NO. 3, AS PER PLAN**

PAYMENT SHALL INCLUDE ALL WORK NECESSARY FOR INSTALLATION OF THE CITY OF CLEVELAND, PRECAST MANHOLE COMPLETE IN PLACE AS SHOWN IN CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MH-1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT DIMENSIONS AT ALL LOCATIONS WITH PROPOSED CATCH BASINS. CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING A-605 SHALL BE USED FOR THE MANHOLE FRAME.

**REVIEW OF DRAINAGE FACILITIES**

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

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

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

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

**REVIEW OF DRAINAGE FACILITIES, CONT.**

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

**BICYCLE-SAFE CATCH BASIN GRATES**

EXISTING CATCH BASINS SHALL BE MODIFIED BY REPLACING THE EXISTING GRATES WITH BICYCLE SAFE GRATES. SPECIFIC LOCATIONS HAVE NOT BEEN IDENTIFIED IN THE PLANS AND SHALL BE LEFT TO THE DISCRETION OF THE ENGINEER. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN ITEM SPECIAL, MISCELLANEOUS METAL.

**ITEM SPECIAL - MISCELLANEOUS METAL, AS PER PLAN**

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY DUTY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. FOR AN CASTINGS THAT REQUIRE REPLACEMENT AND ANY WATER WORK ITEMS, THE CONTRACTOR SHALL USE CITY OF CLEVELAND STANDARDS, EXCEPT THAT ALL MATERIAL SHALL CONFORM TO ITEM 106.09 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION MANUAL AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

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

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

ITEM SPECIAL - MISCELLANEOUS METAL, AS PER PLAN 500 LB

**COORDINATION WITH CLEVELAND WATER POLLUTION CONTROL**

1. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER POLLUTION CONTROL (WPC) PRIOR TO THE START OF CONSTRUCTION AT 216-664-2756.
2. 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 CITY SEWER INSTALLATION.
4. THE PROPOSED CITY 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'S A STRICTLY PROHIBITED TO CONSTRUCT ANY CITY SEWERS UNLESS THEY ARE APPROVED BY WPC.
5. UPON COMPLETION OF THE CITY SEWER INSTALLATION, THE CONTRACTOR IS REQUIRED TO SUBMIT AS-BUILT PLANS AND A VIDEOTAPED COPY OF THE NEW CITY SEWERS. WPC RESERVES THE RIGHT TO NOT APPROVE ANY CITY SEWER THAT DOES NOT MEET THE CITY REQUIREMENTS.
6. ALL EXISTING CITY CATCH BASIN CONNECTIONS SHOULD BE TELEVIEWED 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 NEED TO BE REPLACED. THE CONTRACTOR SHALL DESIGNATE A LOCATION WHERE CASTINGS ARE TO BE STORED AND SHALL COORDINATE WITH WPC FOR THE COLLECTION OF ALL CASTINGS STORED IN THE DESIGNATED LOCATION.

**ITEM 611 - CATCH BASIN NO. 3A, AS PER PLAN**

PAYMENT SHALL INCLUDE ALL WORK NECESSARY FOR INSTALLATION OF THE CITY OF CLEVELAND, CATCH BASIN NO. 1 COMPLETE IN PLACE AS SHOWN IN CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING CB-1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT DIMENSIONS AT ALL LOCATIONS WITH PROPOSED CATCH BASINS.

GENERAL NOTES

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DESIGN AGENCY



DESIGNER	MDO
REVIEWER	AR 09-08-20
PROJECT ID	113330
SHEET	TOTAL
4	91

**ITEM 614, MAINTAINING TRAFFIC**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NO CHANGES IN TRAFFIC PATTERNS SHALL TAKE PLACE DURING PEAK HOURS, 6:00 A.M TO 9:00 A.M AND 3:00 P.M TO 6:00 P.M MONDAY THROUGH FRIDAY. NO NIGHTTIME WORK IS ALLOWED.

ON TWO LANE ROADWAYS, TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-97.10 AND CHAPTER 6E FLAGGER CONTROL OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION, LATEST REVISION.

FOR ALL OTHER ROADWAYS, A MINIMUM OF ONE-LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWINGS MT-95, MT-95.32 AND MT-95.61.

PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-110.10. IN ADDITION TO THE REQUIREMENTS OF MT-110.10, THE CONTRACTOR SHALL LIMIT THE TIME BETWEEN ITEM 202 WALK REMOVAL AND ITEM 608 CONCRETE WALK AND CURB RAMPS TO A MAXIMUM DURATION OF 14 CALENDAR DAYS.

NO FULL ROADWAY CLOSURES AND DETOURS ARE ANTICIPATED FOR ANY OF THE PROJECT LOCATIONS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS**

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	5:00AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER LANE VALUE CONTRACT (PN127).

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO PERMITS AND PIO
RAMP AND ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

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

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

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

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

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

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

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

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT'D)**

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 620 HOURS

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

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

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 0.2 M. GAL.

MAINTENANCE OF TRAFFIC NOTES

CUY MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 2/24/2021 TIME: 7:39:10 PM USER: Loucks P:\PR98742\113330\400-Eng\Ineefng\Roadway\Sheets\113330\_MN001.dgn


DESIGN AGENCY	<b>B&amp;N</b> burgesniple.com
DESIGNER	BPT
REVIEWER	AR 09-08-20
PROJECT ID	113330
SHEET	TOTAL
5	91

CUY

MODEL: Sheet PAPER: 17x11 (in.) DATE: 3/25/2021 TIME: 3:55:41 PM USER: Loucks  
P:\PR8742\113330\400-Engineering\Roadway\Sheets\113330\_GG001.dgn

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	9	10	11	12							01/SAF/OT	EXT	TOTAL				
<b>ROADWAY</b>																		
LS												LS	201	11000	LS	CLEARING AND GRUBBING		
		1,475										1,475	202	23000	1,475	SY	PAVEMENT REMOVED	3
		14,257										14,257	202	30001	14,257	SF	WALK REMOVED, AS PER PLAN	3
		1,958										1,958	202	32000	1,958	FT	CURB REMOVED	3
		5										5	202	58100	5	EACH	CATCH BASIN REMOVED	
	10											10	203	10000	10	CY	EXCAVATION	
	10	243										253	203	20000	253	CY	EMBANKMENT	
		104										104	204	10000	104	SY	SUBGRADE COMPACTION	
		14,875										14,875	608	10001	14,875	SF	4" CONCRETE WALK, AS PER PLAN	4
		5,099										5,099	608	52001	5,099	SF	CURB RAMP, AS PER PLAN	4
		80										80	608	53020	80	SF	DETECTABLE WARNING	
<b>EROSION CONTROL</b>																		
	227											227	659	00300	227	CY	TOPSOIL	4
	2,100											2,100	659	00500	2,100	SY	SEEDING AND MULCHING, CLASS 1	4
	0.41											0.41	659	20000	0.41	TON	COMMERCIAL FERTILIZER	4
	12											12	659	35000	12	MGAL	WATER	4
	30,000											30,000	832	30001	30,000	EACH	EROSION CONTROL, AS PER PLAN	4
<b>DRAINAGE</b>																		
		30										30	611	04400	30	FT	12" CONDUIT, TYPE B	
		4										4	611	98151	4	EACH	CATCH BASIN, NO. 3, AS PER PLAN	4
		4										4	611	98630	4	EACH	CATCH BASIN ADJUSTED TO GRADE	
		5										5	611	99575	5	EACH	MANHOLE, NO. 3, AS PER PLAN	4
		5										5	611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	
	500											500	SPECIAL	61199820	500	LB	MISCELLANEOUS METAL, AS PER PLAN	4
<b>PAVEMENT</b>																		
		680										680	253	90100	680	SY	PAVEMENT REPAIR, MISC.: STREET OPENING REPAIR, TYPE A AND TYPE B	3
	400											400	254	01000	400	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	4
		18										18	301	46000	18	CY	ASPHALT CONCRETE BASE, PG64-22, 6"	
		18										18	304	20000	18	CY	AGGREGATE BASE, 6"	
	17											17	441	50000	17	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	4
		1,646										1,646	609	26000	1,646	FT	CURB, TYPE 6	
		104										104	609	72000	104	SY	CONCRETE MEDIAN	
<b>WATER WORK</b>																		
		2										2	638	10400	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
		8										8	638	10800	8	EACH	VALVE BOX ADJUSTED TO GRADE	
		4										4	638	10900	4	EACH	SERVICE BOX ADJUSTED TO GRADE	
<b>TRAFFIC CONTROL</b>																		
			131									131	630	03100	131	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			4									4	630	79200	4	EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM	
			20									20	630	79500	20	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
			265									265	630	80100	265	SF	SIGN, FLAT SHEET	
			15									15	630	84900	15	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
				10								10	630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				23								23	630	87500	23	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
				2								2	630	87520	2	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
				42								42	630	97700	42	EACH	SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB)	13
					1							1	644	00100	1	MILE	EDGE LINE, 4"	
					97							97	644	00500	97	FT	STOP LINE, 18"	
					2,748							2,748	644	00600	2,748	FT	CROSSWALK LINE, 12"	
					3,040							3,040	644	00600	3,040	FT	CROSSWALK LINE, 24"	
					68							68	644	20800	68	FT	YIELD LINE	
					1							1	644	50100	1	EACH	PAVEMENT MARKING, MISC.: REMOVAL OF PAVEMENT MARKING	13
					2,906							2,906	644	50300	2,906	FT	PAVEMENT MARKING, MISC.: REMOVAL OF PAVEMENT MARKING	13
					649							649	646	10500	649	FT	CROSSWALK LINE, 12"	
					809							809	646	10500	809	FT	CROSSWALK LINE, 24"	


GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 MDO  
 REVIEWER  
 AR 09-08-20  
 PROJECT ID  
 113330  
 SHEET TOTAL  
 7 91

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	10	11	12									01/SAF/OT	EXT	TOTAL				
<b>TRAFFIC SIGNALS</b>																		
	4											4	625	00450	4	EACH	CONNECTION, FUSED PULL APART	
	2											2	625	00460	2	EACH	CONNECTION, UNFUSED PULL APART	
	6											6	625	00470	6	EACH	CONNECTION, UNFUSED BOLTED	
	1											1	625	14100	1	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
	45											45	625	23000	45	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
	70											70	625	23400	70	FT	NO. 10 AWG POLE AND BRACKET CABLE	
	736											736	625	25402	736	FT	CONDUIT, 2", 725.05	
	1											1	625	26250	1	EACH	LUMINAIRE, CONVENTIONAL, (LED), COBRA HEAD, TYPE II OR III	
	701											701	625	29000	701	FT	TRENCH	
	12											12	625	30510	12	EACH	PULL BOX, 725.06, SIZE 4	
	58											58	625	32000	58	EACH	GROUND ROD	
	2											2	625	34000	2	EACH	POWER SERVICE	
	2											2	625	60010	2	EACH	LIGHT POLE REMOVED FOR REERECTION	
	45											45	632	20731	45	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	
	21											21	632	26000	21	EACH	PEDESTRIAN PUSHBUTTON	
	189											189	632	29900	189	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	
	4,659											4,659	632	40500	4,659	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
	543											543	632	40700	543	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
	15											15	632	64011	15	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	
	47											47	632	64020	47	EACH	PEDESTAL FOUNDATION	
	2,151											2,151	632	65200	2,151	FT	LOOP DETECTOR LEAD-IN CABLE	
	60											60	632	68200	60	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
	1,020											1,020	632	69800	1,020	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
	10											10	632	70400	10	EACH	CONDUIT RISER, 2" DIAMETER	
	10											10	632	72101	10	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	
	4											4	632	72131	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	
	1											1	632	86120	1	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 8	
	6											6	632	89900	6	EACH	PEDESTAL, 8', TRANSFORMER BASE	
	8											8	632	90000	8	EACH	PEDESTAL, 11', TRANSFORMER BASE	
	33											33	632	90008	33	EACH	PEDESTAL, 15', TRANSFORMER BASE	
			1									1	632	90020	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTAL	
			8									8	632	90020	8	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTRIAN HYBRID BEACON	
			21									21	632	90020	21	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTRIAN SIGNAL HEAD	
			1									1	632	90020	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PUSHBUTTON	
			4									4	632	90020	4	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, SIGNAL POLE AND MAST ARM	
			14									14	632	90400	14	EACH	SIGNALIZATION, MISC.: REMOVAL OF FLASHER ASSEMBLY	
			12									12	632	90400	12	EACH	SIGNALIZATION, MISC.:PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, RETROFITTED	
			8									8	632	90400	8	EACH	SIGNALIZATION, MISC.: PEDESTRIAN HYBRID BEACON	
		673										673	632	90500	673	FT	SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE	
			2									2	633	65510	2	EACH	CABINET, TYPE TS-2	
			2									2	633	99000	2	EACH	CONTROLLER ITEM, MISC.: CONTROLLER TYPE SIEMENS M-60	
<b>MAINTENANCE OF TRAFFIC</b>																		
620												620	614	11110	620	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
0.2												0.2	616	10000	0.2	MGAL	WATER	
<b>INCIDENTALS</b>																		
												LS	614	11000	LS		MAINTAINING TRAFFIC	
												3	619	16010	3	MNTH	FIELD OFFICE, TYPE B	
												LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	624	10000	LS		MOBILIZATION	
												LS	SPECIAL	90017000	LS		PRECONSTRUCTION VIDEO	

GENERAL SUMMARY

CUY  
 MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 3/25/2021 TIME: 2:49:52 PM USER: Loucks  
 P:\PR8742\113330\400-Engineering\Roadway\Sheets\113330\_GG001.dgn

DESIGN AGENCY  
  
 burgesnipe.com

DESIGNER  
 MDO

REVIEWER  
 AR 09-08-20

PROJECT ID  
 113330

SHEET TOTAL  
 8 | 91



CUY

MODEL: Sheet PAPER: 17x11 (in.) DATE: 3/25/2021 TIME: 2:52:32 PM USER: Loucks  
 P:\PR8742113330\400-Engineering\Roadway\Sheets\113330\_GS001.dgn

Intersection Priority Number	SHEET CODE	Intersection	202	202	202	202	203	204	253	301	304	608	608	608	609	609	611	611	611	611	611	638	638	638	
			PAVEMENT REMOVED	WALK REMOVED, AS PER PLAN	CURB REMOVED	CATCH BASIN REMOVED	EMBANKMENT	SUBGRADE COMPACTION	PAVEMENT REPAIR, MISC.: STREET OPENING REPAIR, TYPE A AND TYPE B	ASPHALT CONCRETE BASE, PG64-22, 6"	AGGREGATE BASE, 6"	4" CONCRETE WALK, AS PER PLAN	CURB RAMP, AS PER PLAN	DETECTABLE WARNING	CURB, TYPE 6	CONCRETE MEDIAN	CATCH BASIN ADJUSTED TO GRADE	MANHOLE ADJUSTED TO GRADE	CATCH BASIN, NO. 3, AS PER PLAN	MANHOLE, NO. 3, AS PER PLAN	12" CONDUIT, TYPE B	FIRE HYDRANT ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE	SERVICE BOX ADJUSTED TO GRADE	
			SY	SF	FT	EACH	CY	SY	CY	CY	SF	SF	SF	FT	SY	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH		
1	38	Chester Ave at E. 70th St	35.2	391.0	36.0				35.2				391.0		36.0										
2	39	Chester Ave at E. 71th St	38.2	238.0	25.0				38.2			238.0			25.0										
5	40	Superior Ave at E 87th Street	49.7					28.7	21.0	4.8	4.8			16		28.7									
6	41	Superior Ave at E. 91st St	80.9	489.0	45.0			25.1	30.6	4.2	4.2	426.0	103.0	16	18.6	25.1	1.0								
7	43	Superior Ave at E. 99st St	62.3	339.0	55.0			26.4	35.9	4.4	4.4	389.8	113.0	16	43.0	26.4									
8	45	Superior Ave at East Blvd	53.5	253.8	49.0			23.3	34.0	3.9	3.9	167.5	120.0	16	82.0	23.3									
9	47	St. Clair/E. 103rd	8.9	520.0	40.0				9.0			384.0	152.0	16	8.0		1.0								
11	51	W. 116th/Clifton		243.0								243.0													
12	53	Detroit/W. 95th	8.9	302.0	40.0				8.9			213.0	130.0		18.0									1.0	
51	\$510pg\$	Detroit/W. 94th	1.52	0.069	0.411				0.52			0.486	0.384		0.63		0.1								
16	59	Madison/W. 74th midblock	9.0	200.0	40.0				9.0			160.0	93.0		28.0										
21	62	W. 9th/Johnson Court	9.0	600.0	40.0				9.0			453.0	162.0		8.0										
22	63	W. 9th/West Lakeside Avenue		68.0								68.0													
23	64	Lee midblock south of Telfair	7.0	250.0	28.0				7.0			126.0	91.0		16.0										
27	68	Mayfield at E. 124th Place	49.0	819.0	140.0	1.0			49.0			986.0	272.0		130.0				1.0	1.0	8.0	1.0	1.0	1.0	1.0
28	70	Mayfield at Murray Hill Road	72.0	506.0	81.0	1.0	24.5		23.0			706.0	221.0		53.0				1.0				1.0		1.0
29	72	Mayfield at Colman Ave	95.0	761.0	111.0	1.0	31.5		32.0			1040.0	233.0		76.0			1.0	1.0	6.0			1.0		1.0
30	74	Mayfield at Random Road	26.0	250.0	33.0		8.5		9.0			322.0	72.0		22.0										
31	76	Larchmere at E. 130th St	87.0	796.0	98.0	1.0	29.5		28.0			609.0	315.0		315.0			1.0	1.0	6.0					
32	77	Larchmere at E. 128th St	76.0	527.0	104.0		25.0		26.0			663.0	300.0		67.0										
33	78	Larchmere at E. 127th St	85.0	641.0	90.0		30.0		25.0			947.0	205.0		70.0		1.0								
34	79	Larchmere at E. 126th St	89.0	880.0	96.0		31.5		26.0			671.0	207.0		77.0						1.0	3.0		1.0	
35	80	Larchmere at E. 122nd St	89.0	558.0	96.0		31.5		26.0			883.0	237.0		67.0		1.0					2.0		1.0	
36	81	Larchmere at E. 121st St	88.0	465.0	101.0		31.0		26.0			672.0	238.0		71.0		1.0								
39	83	Broadway/Barkwill	2.0	24.0	8.0				2.0			24.0			8.0										
44	87	Lorain/W. 162nd	17.3	18.0	14.0				17.0			18.0			14.0										
45	88	Benham/E. 93rd	9.0	440.0	40.0				9.0			284.0	152.0		8.0										
49	89	E. 13th St and Rockwell Ave	40.0	1380.0	176.0				40.0			771.0	649.0		80.0		2.0	1.0							
50	90	Broadway/McBride	21.6	104.0	12.0				22.0			104.0			12.0										
51	91	Chester Ave. at E. 13th St	241.0	1234.0	246.0	1			57.0			2622.0	160.0		257.0				1.0	1.0	10.0				
TOTALS CARRIED TO GENERAL SUMMARY			1475	14257	1958	5	243	104	680	18	18	14875	5099	80	1646	104	4	5	4	5	30	2	8	4	

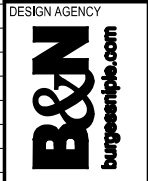
ROADWAY SUBSUMMARY

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DESIGN AGENCY  
  
 DESIGNER: MDO  
 REVIEWER: AR 09-08-20  
 PROJECT ID: 113330  
 SHEET: 9 TOTAL: 91

Intersection Priority Number	SHEET CODE	Intersection	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	630	630	630	630	630	630
			GROUND ROD	CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED BOLTED	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.05	CONDUIT, 3", 725.05	CONDUIT, 2", 725.05 CONCRETE ENCASED	LUMINAIRE, CONVENTIONAL	TRENCH				PULL BOX, 725.06, SIZE 4	POWER SERVICE	LIGHT POLE REMOVED	LIGHT POLE REMOVED FOR REERECTION	LIGHT POLE FOUNDATION, 24" X 8' DEEP	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN ATTACHMENT ASSEMBLY, MAST ARM	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET
			EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	EACH	FT							FT	EACH	EACH	SF	EACH	EACH
1	38	Chester Avenue & East 70th Street	3						186				163		4										
2	39	Chester Avenue & East 71st Street	4						171				159		4										
5	40	Superior Avenue & East 87th Street																							
6	42	Superior Avenue & East 91st Street	1						8				8									6	28.5		
7	44	Superior Avenue & East 99th Street	2						134				134							54			2	28.5	
8	46	Superior Avenue & East Boulevard	1						65				65												
9	47	Saint Clair Avenue & East 103rd Street	2																						
10	48	West 112th Street & Clifton Boulevard	2													1				16	2	4	53		
11	51	West 116th Street and Clifton Boulevard	2												1						2	4	53		
12	54	Detroit Avenue & West 95th Street																							
13	55	Detroit Avenue & West 80th Street	1																						
14	56	Detroit Avenue & West 67th Street	2																						
15	58	Detroit Avenue & West 49th Street																							
16	59	Madison Avenue & West 74th Street - Midblock																		30				18	
17	60	West 61st Street & Lorain Avenue																							
20	61	West 3rd Street & Frankfort Avenue	2																					4	1
21	62	West 9th Street & Johnson Court	2																						
22	63	West 9th Street & West Lakeside Avenue	2	2	1	3	30	40	17			1	17					1						3	1
23	64	Lee Road (Midblock) South of Telfair Avenue	2																					2	2
24	65	East Boulevard & Juniper Road	2																			2	22		
25	66	East Boulevard & Ford Drive	2																	15			13	1	1
26	67	East Boulevard & Wade Oval Drive	2																	16		2	44	1	1
27	69	Mayfield Road & East 124th Place	2																					1	1
28	71	Mayfield Road & Murray Hill Road	2																						
29	73	Mayfield Road & Coltman Road	2																						
30	75	Mayfield Road & Random Road	1																						
31	76	Larchmere Boulevard & East 130th Street																							
32	77	Larchmere Boulevard & East 128th Street																							
35	80	Larchmere Boulevard & East 122nd Street																							
36	81	Larchmere Boulevard & East 121st Street																							
38	82	Magnet Avenue & East 55th Street	2																					1	1
39	83	Broadway Avenue & Barkwill Avenue	2	2	1	3	15	30	5			5						1	1					1	1
41	84	Broadway Avenue & Portage Avenue	2																						
42	85	Broadway Avenue & Blanche Avenue	2																					1	1
43	86	Broadway Avenue & Hillman Avenue	2																						
44	87	Lorain Avenue & West 162nd Street	1						56			56			2										
45	88	Benham Avenue & East 93rd Street	2																						
49	89	East 13th Street & Rockwell Avenue	2																						
50	90	Broadway Avenue & McBride Avenue	1						66			66			2										
51	91	Chester Avenue & East 13th Street	1						28			28													
TOTALS CARRIED TO GENERAL SUMMARY			58	4	2	6	45	70	736			1	701		12	2		2	1	131	4	20	265	15	10

TRAFFIC SUBSUMMARY




DESIGN AGENCY	BPT
REVIEWER	AR 12/4/2020
PROJECT ID	113330
SHEET	TOTAL
10	91

Intersection Priority Number	SHEET CODE	Intersection	630	630	630	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	
			REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REECTION	SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB)	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	SIGNALIZATION, MISC.: PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, RETROFITTED	PEDESTRIAN PUSHBUTTON	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	LOOP DETECTOR LEAD-IN CABLE	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	PEDESTAL FOUNDATION	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	CONDUIT RISER, 2" DIAMETER	PEDESTAL, 8", TRANSFORMER BASE	PEDESTAL, 11", TRANSFORMER BASE	PEDESTAL, 15", TRANSFORMER BASE	STRAIN POLE, TYPE TC-81.11, DESIGN 8	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	MESSENGER WIRE, 7-STRAND, 1/4" DIAMETER WITH ACCESSORIES	
			EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	
1	38	Chester Avenue & East 70th Street		2		8		8		135	910		910		3				1		3					
2	39	Chester Avenue & East 71st Street				8		8		138	906		906		4				1		4					
5	40	Superior Avenue & East 87th Street							2	42	121															
6	42	Superior Avenue & East 91st Street				1		1		42	121				1				1	1						
7	44	Superior Avenue & East 99th Street				2		2			347				2					2						
8	46	Superior Avenue & East Boulevard				1		5		102	166				1		7		1	1						
9	47	Saint Clair Avenue & East 103rd Street			2										2								2			
10	48	West 112th Street & Clifton Boulevard				2		2			151	268	164	2		30	759		1					2	91	
11	51	West 116th Street and Clifton Boulevard				2		2			158	275	171	2		30	254		1					2	98	
12	54	Detroit Avenue & West 95th Street				2				55	115								1							
13	55	Detroit Avenue & West 80th Street				6				146	70	430			1				2			1				
14	56	Detroit Avenue & West 67th Street			2										2								2			
15	58	Detroit Avenue & West 49th Street								65																
16	59	Madison Avenue & West 74th Street - Midblock																								
17	60	West 61st Street & Lorain Avenue	2		2										2							2				
20	61	West 3rd Street & Frankfort Avenue	4		2										2							2				
21	62	West 9th Street & Johnson Court			2										2							2				
22	63	West 9th Street & West Lakeside Avenue	1		2										2							2				
23	64	Lee Road (Midblock) South of Telfair Avenue			2									2									2			
24	65	East Boulevard & Juniper Road			2										2							2				
25	66	East Boulevard & Ford Drive			2										2							2				
26	67	East Boulevard & Wade Oval Drive			2										2							2				
27	69	Mayfield Road & East 124th Place	1		2										2							2				
28	71	Mayfield Road & Murray Hill Road	3		2										2							2				
29	73	Mayfield Road & Coltman Road	3		2										2							2				
30	75	Mayfield Road & Random Road	2		2										1							1				
31	76	Larchmere Boulevard & East 130th Street																								
32	77	Larchmere Boulevard & East 128th Street																								
35	80	Larchmere Boulevard & East 122nd Street																								
36	81	Larchmere Boulevard & East 121st Street																								
38	82	Magnet Avenue & East 55th Street	1		2										2							2				
39	83	Broadway Avenue & Barkwill Avenue	1		2										2							2				
41	84	Broadway Avenue & Portage Avenue	2		2										2							2				
42	85	Broadway Avenue & Blanche Avenue	1		2										2							2				
43	86	Broadway Avenue & Hillman Avenue	2		2										2							2				
44	87	Lorain Avenue & West 162nd Street				4		2		89	378				1					1						
45	88	Benham Avenue & East 93rd Street			2										2									2		
49	89	East 13th Street & Rockwell Avenue			2										2							2				
50	90	Broadway Avenue & McBride Avenue				8				58	722				1				1	1						
51	91	Chester Avenue & East 13th Street				1					134				1					1						

TOTALS CARRIED TO GENERAL SUMMARY

23	2	42	45	12	21	269	673	4659	543	2151	13	47	60	1020	10	6	8	33	1	8	4	189		
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TRAFFIC SUBSUMMARY

DESIGN AGENCY  
  
 DESIGNER: BPT  
 REVIEWER: AR 12/4/2020  
 PROJECT ID: 113330  
 SHEET: 11 TOTAL: 91

**POWER SUPPLY FOR TRAFFIC SIGNALS**

ELECTRIC POWER SHALL BE OBTAINED FROM THE POWER POLE IN THE NORTH EAST CORNER OF CLIFTON AND W. 110 TH ST FOR THE PEDESTRIAN HYBRID BEACON AT THE INTERSECTION OF CLIFTON AND W. 112TH ST. POWER SUPPLIED SHALL BE 120 VAC.

ELECTRIC POWER SHALL BE OBTAINED FROM THE POWER POLE IN THE SOUTH EAST CORNER OF CLIFTON AND W. 117 TH ST FOR THE PEDESTRIAN HYBRID BEACON AT THE INTERSECTION OF CLIFTON AND W. 116TH ST. POWER SUPPLIED SHALL BE 120 VAC.

**SIGNAL ACTIVATION**

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP-AND-GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC). IF THERE ARE CONSTRUCTABILITY ISSUES (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER. THE DISTRICT TRAFFIC ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO COMPLETION.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL DESIGNATED DISTRICT TRAFFIC PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT EFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND REINSPECTED BY DISTRICT TRAFFIC PERSONNEL PRIOR TO FINAL ACCEPTANCE. ODOT FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

**632 CONTROLLER, MISC.: CONTROLLER, TYPE SIEMENS M-60**

THIS ITEM SHALL BE PER CMS 633 AND 732. PAYMENT FOR ITEM 633 CONTROLLER, MISC.: CONTROLLER, TYPE SIEMENS M-60 SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL THE CONTROLLER.

**STRAIN POLE AND PEDESTAL FOUNDATION ELEVATIONS**

ELEVATIONS SHOWN IN THE PLANS FOR STRAIN POLE AND PEDESTAL FOUNDATIONS ARE FOR COMPUTATIONAL PURPOSES ONLY. THE ACTUAL ELEVATION OF THE FOUNDATION SHALL BE IN ACCORDANCE WITH TRAFFIC SCD TC-21.21 PROVIDED THE EXISTING SLOPE IS LESS THAN 6:1.

AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR GREATER, THE BURIED DEPTH OF FOUNDATION, AS SHOWN IN SCD TC-21.21 SHALL APPLY TO THE LOW SIDE OF THE SLOPE. THE TOP OF THE FOUNDATION SHALL BE SET 2 INCHES ABOVE THE EXISTING SURFACE ON THE HIGH SIDE OF THE SLOPE. THE ADDITIONAL DEPTH OF FOUNDATION NECESSARY TO MEET THESE REQUIREMENTS SHALL BE ADDED TO THE FORMED TOP.

**632 PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THE FOLLOWING SHALL APPLY:

1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
4. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED.
6. THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

PAYMENT FOR ITEM 632 PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

**633 CABINET, TYPE TS-2**

THE CABINET SHALL BE FURNISHED AND INSTALLED ACCORDING TO CMS 633 AND 733 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS LIST (TAP).

THE POLE-MOUNTED CABINET SHALL BE A NEMA TS-2, TYPE 1, CABINET SIZE 7 WITH 16 LOAD SWITCH BAYS, LED UNDER-SHELF LIGHTING, POWER HARNESSSES FOR BOTH TS2 TYPE 1 AND TYPE 2 CONTROLLERS AND SHALL HAVE A MINIMUM OF THREE SHELVES.

EACH CABINET SHALL COME EQUIPPED WITH TWO 16-CHANNEL CABINET DETECTOR RACKS (CDR) INCLUDING BUS INTERFACE UNITS (BIU). THE LOOP DETECTOR TERMINATION PANEL FOR THE SECOND DETECTOR RACK SHALL BE OMITTED.

THE CABINET SHALL BE FURNISHED WITH AN EDI MMU AS ALLOWED ON THE TAP/APPROVED PRODUCTS LIST.

PAYMENT FOR ITEM 633 CABINET, TYPE TS-2, AS PER PLAN WILL BE AT THE CONTRACT BID PRICE PER EACH COMPLETE AND IN PLACE INCLUDING ALL CONNECTIONS TESTED AND ACCEPTED.

**632 SIGNAL SUPPORT FOUNDATION, AS PER PLAN**

PRIOR TO ORDERING THE SIGNAL SUPPORTS, THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD THEN MEET WITH THE PROJECT ENGINEER TO LOCATE THE PROPOSED SUPPORT LOCATIONS TO INSURE THERE ARE NO CONFLICTS WITH UTILITIES. IF THERE ARE ISSUES, THE PROJECT ENGINEER SHALL PROVIDE GUIDANCE AS TO THE RELOCATION OF THE SUPPORT POLES.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED.

**632 SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE**

THE CONTRACTOR SHALL REMOVE EXISTING MESSENGER WIRE LASHING RODS AND REINSTALL THEM AS NECESSARY FOR THE INSTALLATION OF ANY NEW CABLES ON THE EXISTING INTERSECTION SIGNAL SPANS. THE CABLES SHALL ENTER THE EXISTING STRAIN POLE THROUGH THE POLE CABLE ENTRANCE FITTING AND USE THE EXISTING CONDUIT SYSTEM TO GET TO THE CONTROLLER CABINET. THE NEW CABLES SHALL BE SUPPORTED BY A NEW CABLE SUPPORT ASSEMBLY AT THE TOP OF THE STRAIN POLE.

THE NEW SIGNAL CABLES SHALL BE BID BY SEPARATE BID ITEMS.

PAYMENT FOR ITEM 632 "SIGNALIZATION MISC.: UNLASH AND RELASH MESSENGER WIRE" SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT AND SHALL INCLUDE ALL LABOR, MATERIALS, CABLE SUPPORT ASSEMBLIES AND EQUIPMENT TO INSTALL NEW CABLES ON EXISTING SIGNAL SPAN WIRE INSTALLATIONS.

**632 SIGNALIZATION, MISC.: PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, RETROFITTED**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THE FOLLOWING SHALL APPLY:

1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
4. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED.
6. THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

**632 SIGNALIZATION, MISC.: PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, RETROFITTED (CONT'D)**

IN ADDITION TO THE NEW PEDESTRIAN SIGNAL HEAD SHALL BE MOUNTED IN THE SAME LOCATION AS THE EXISTING PEDESTRIAN SIGNAL HEAD THAT WAS REMOVED. THIS ITEM SHALL ALSO INCLUDE THE CONDUIT RISER AND MOUNTING HARDWARE. THE NEW SIGNAL HEAD SHALL BE CONNECTED TO THE SIGNAL USING THE EXISTING WIRING. THIS ITEM IS NOT COMPENSATION FOR THE REMOVAL OF THE EXISTING PEDESTRIAN SIGNAL HEAD.

PAYMENT FOR ITEM 632 PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

**ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, SIGNAL POLE AND MAST ARM**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING SIGNAL POLE, MAST ARM AND BASE. THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE THE EXISTING WIRING AND POLES.

PAYMENT FOR ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM SIGNAL POLE AND MAST ARM SHALL BE PER EACH REMOVED AND DISPOSED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

**ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTAL**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING PEDESTAL AND FOUNDATION. THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE THE EXISTING WIRING AND POLES.

PAYMENT FOR ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM PEDESTAL SHALL BE PER EACH REMOVED AND DISPOSED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

**ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTRIAN SIGNAL HEAD**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING PEDESTRIAN SIGNAL HEAD, MOUNTING BRACKETS AND CONDUIT RISER. THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE THE EXISTING WIRING AND POLES.

PAYMENT FOR ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM PEDESTRIAN SIGNAL HEAD SHALL BE PER EACH REMOVED AND DISPOSED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

**ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PUSHBUTTON**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING PUSHBUTTON AND MOUNTING HARWARE. THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE THE EXISTING WIRING AND POLES.

PAYMENT FOR ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM PUSHBUTTON SHALL BE PER EACH REMOVED AND DISPOSED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

TRAFFIC CONTROL NOTES

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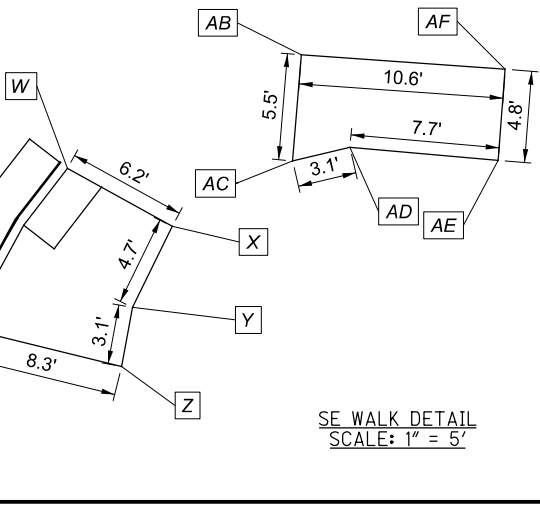
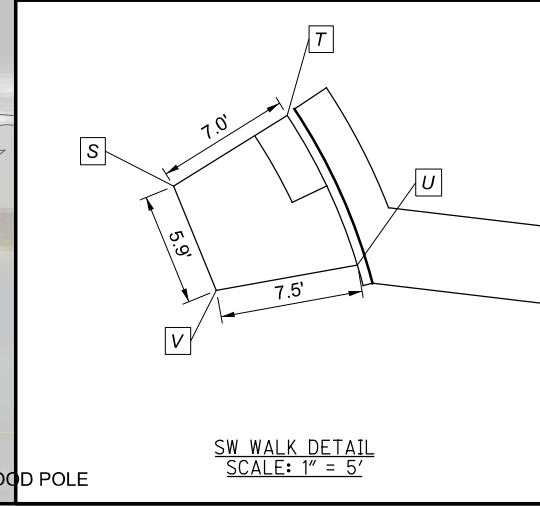
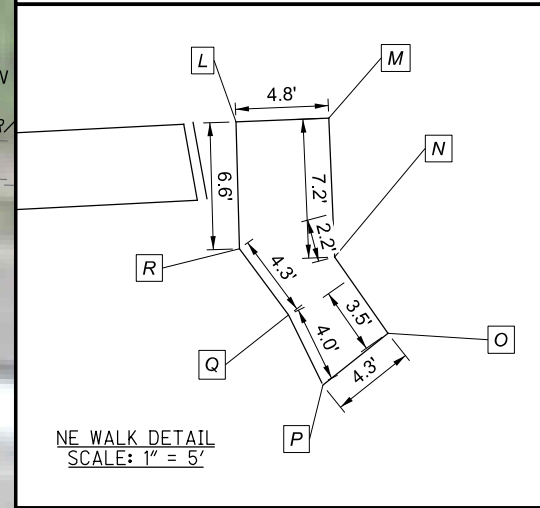
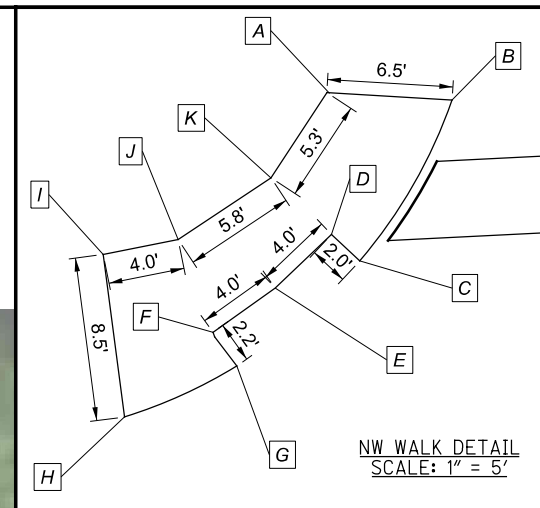
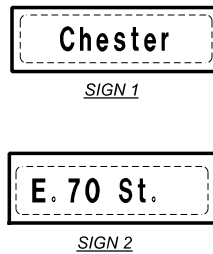
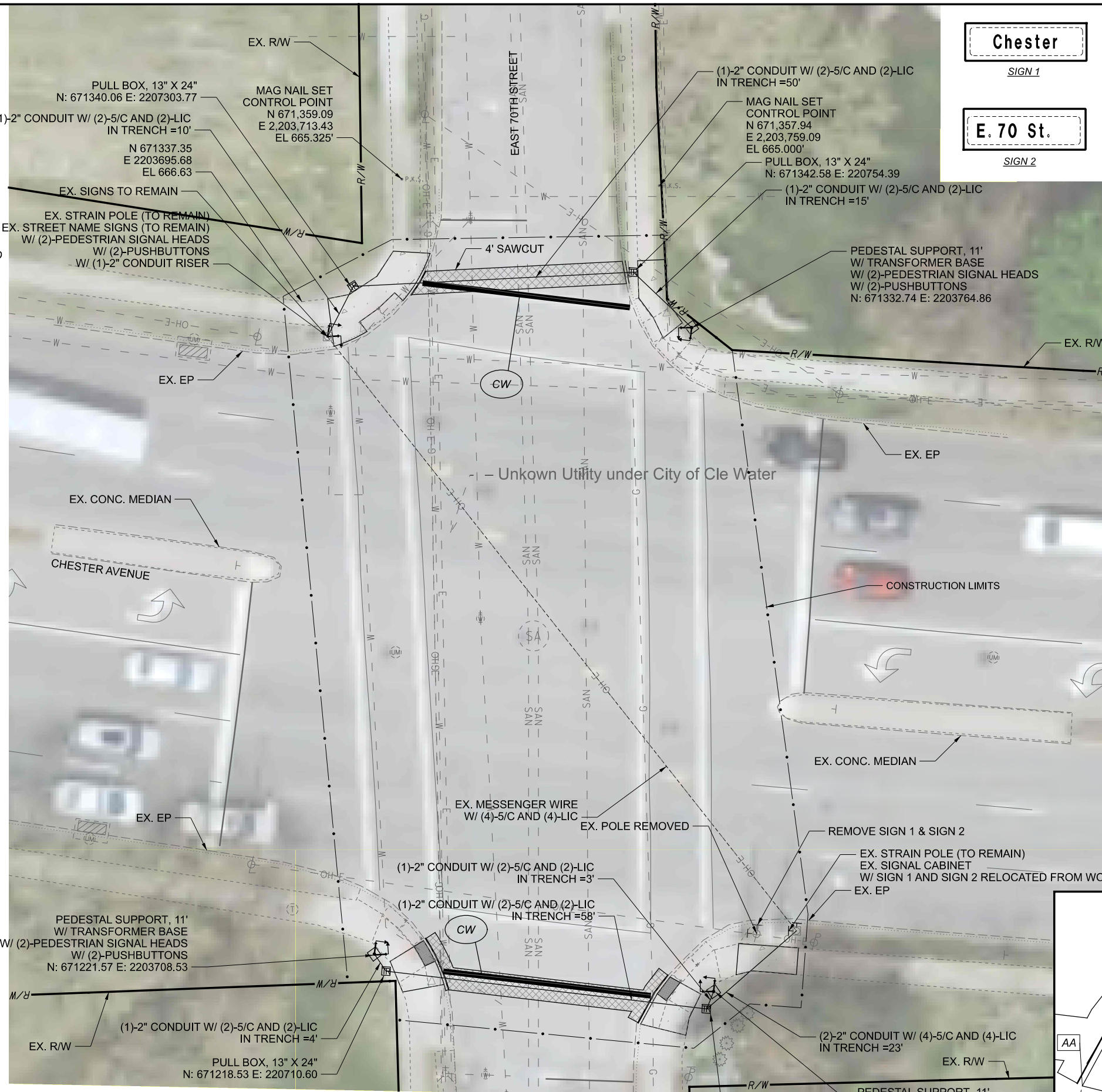
DESIGN AGENCY	
<b>B&amp;N</b> burgessnoble.com	
DESIGNER	BPT
REVIEWER	AR 09-08-20
PROJECT ID	113330
SHEET	TOTAL
14	91

LEGEND

- OVERHEAD SIGN SUPPORT
- PEDESTAL SUPPORT
- TRAFFIC CONTROLLER CABINET
- PROPOSED SIGNAL CONDUIT
- TRAFFIC PULL BOX
- LIGHTING PULL BOX
- PUSHBUTTON
- CONVENTIONAL LUMINARE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED VEHICULAR SIGNAL HEAD
- PMR PAVEMENT MARKING TO BE REMOVED
- SL STOP LINE, 18"
- CW CROSSWALK LINE\*
- ELY EDGE LINE, YELLOW
- YL YIELD LINE

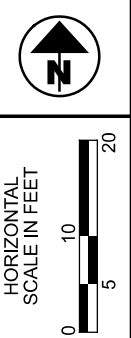
\* ITEM 646 ON CONCRETE AND BRICK SURFACES

POINT	NORTHING	EASTING	ELEVATION
A	671346.30	2203711.90	665.21
B	671345.91	2203718.43	665.08
C	671337.53	2203713.62	665.40
D	671338.91	2203712.15	665.38
E	671336.12	2203709.22	665.50
F	671333.81	2203705.98	665.63
G	671332.06	2203707.22	665.66
H	671329.40	2203701.36	665.85
I	671337.87	2203700.25	665.70
J	671338.65	2203704.16	665.58
K	671341.75	2203708.83	665.38
L	671344.60	2203755.28	664.87
M	671344.81	2203760.12	665.02
N	671337.57	2203760.42	664.91
O	671333.60	2203763.19	664.85
P	671330.90	2203759.81	664.83
Q	671334.56	2203758.02	664.83
R	671337.99	2203755.46	664.86
S	671220.26	2203711.34	665.60
T	671223.95	2203717.26	665.31
U	671216.16	2203720.91	665.27
V	671214.83	2203713.57	665.64
W	671217.48	2203761.02	664.49
X	671214.47	2203766.48	664.62
Y	671210.23	2203764.41	664.76
Z	671207.15	2203763.84	664.96
AA	671209.12	2203755.81	664.78
AB	671223.40	2203773.20	664.46
AC	671217.87	2203772.75	664.58
AD	671218.57	2203775.74	664.57
AE	671217.89	2203783.46	664.52
AF	671222.65	2203783.83	664.27



NOTES:  
 - UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN

- PAVEMENT REMOVED
- PROPOSED CONCRETE WALK



DETAILED PLAN  
 CHESTER AVENUE & EAST 70TH STREET

DESIGN AGENCY  
**B&N**  
 burgeempire.com

DESIGNER  
 MDO
















REVIEWER  
 AR 09-08-20

PROJECT ID  
 113330

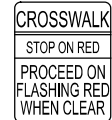
SHEET TOTAL  
 38 91



LEGEND

-  OVERHEAD SIGN SUPPORT
-  PEDESTAL SUPPORT
-  TRAFFIC CONTROLLER CABINET
-  PROPOSED SIGNAL CONDUIT
-  TRAFFIC PULL BOX
-  LIGHTING PULL BOX
-  PUSHBUTTON
-  CONVENTIONAL LUMINARE
-  PROPOSED PEDESTRIAN SIGNAL HEAD
-  PROPOSED VEHICULAR SIGNAL HEAD
  
-  PMR PAVEMENT MARKING TO BE REMOVED
-  SL STOP LINE, 18"
-  CW CROSSWALK LINE\*
-  ELY EDGE LINE, YELLOW
-  YL YIELD LINE

\* ITEM 646 ON CONCRETE AND BRICK SURFACES



W11-2-36  
W16-7PL-24

R10-23A-24

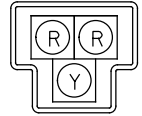
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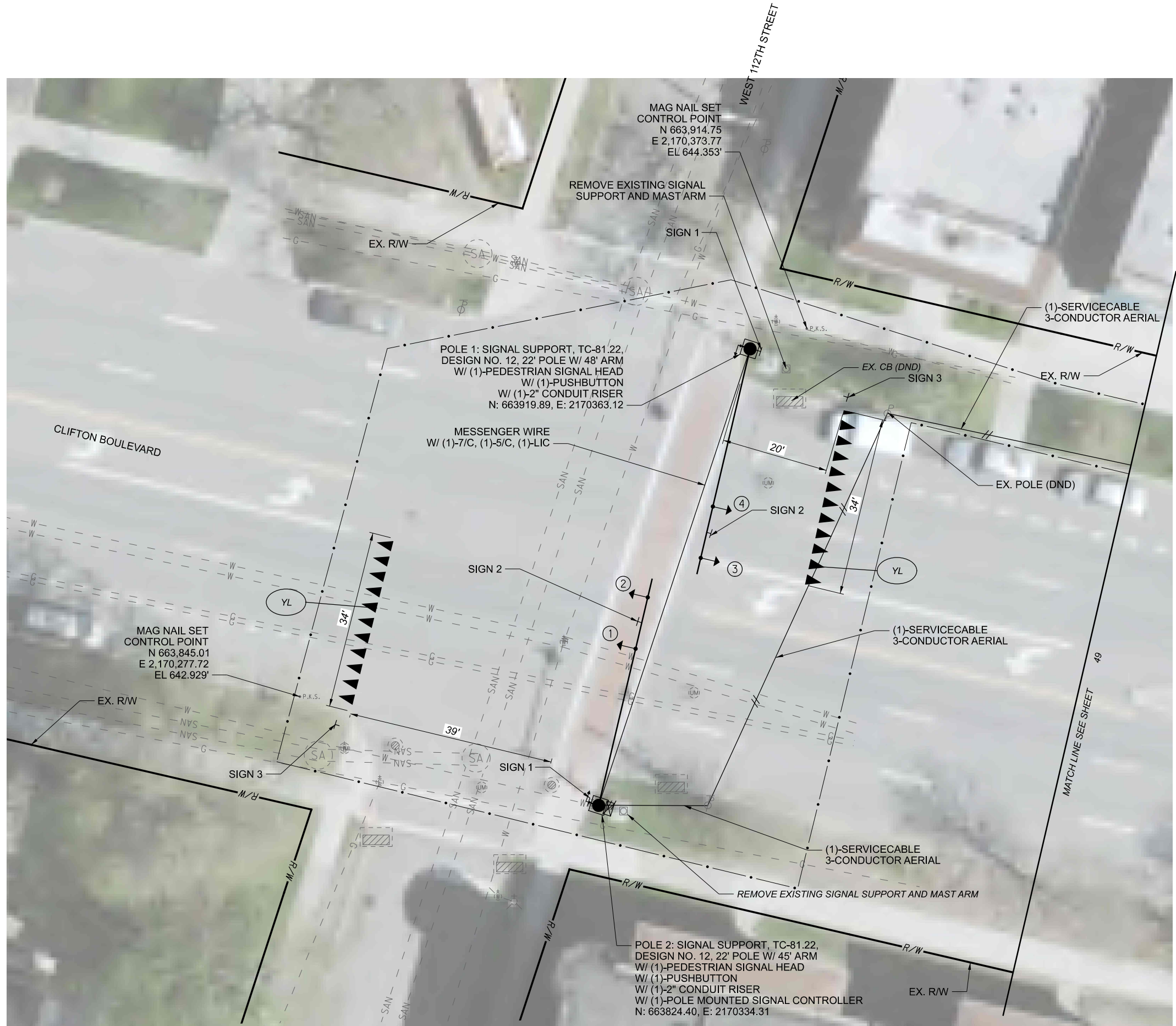
SIGN 2

SIGN 3

LED SIGNAL HEADS



① ② ③ ④



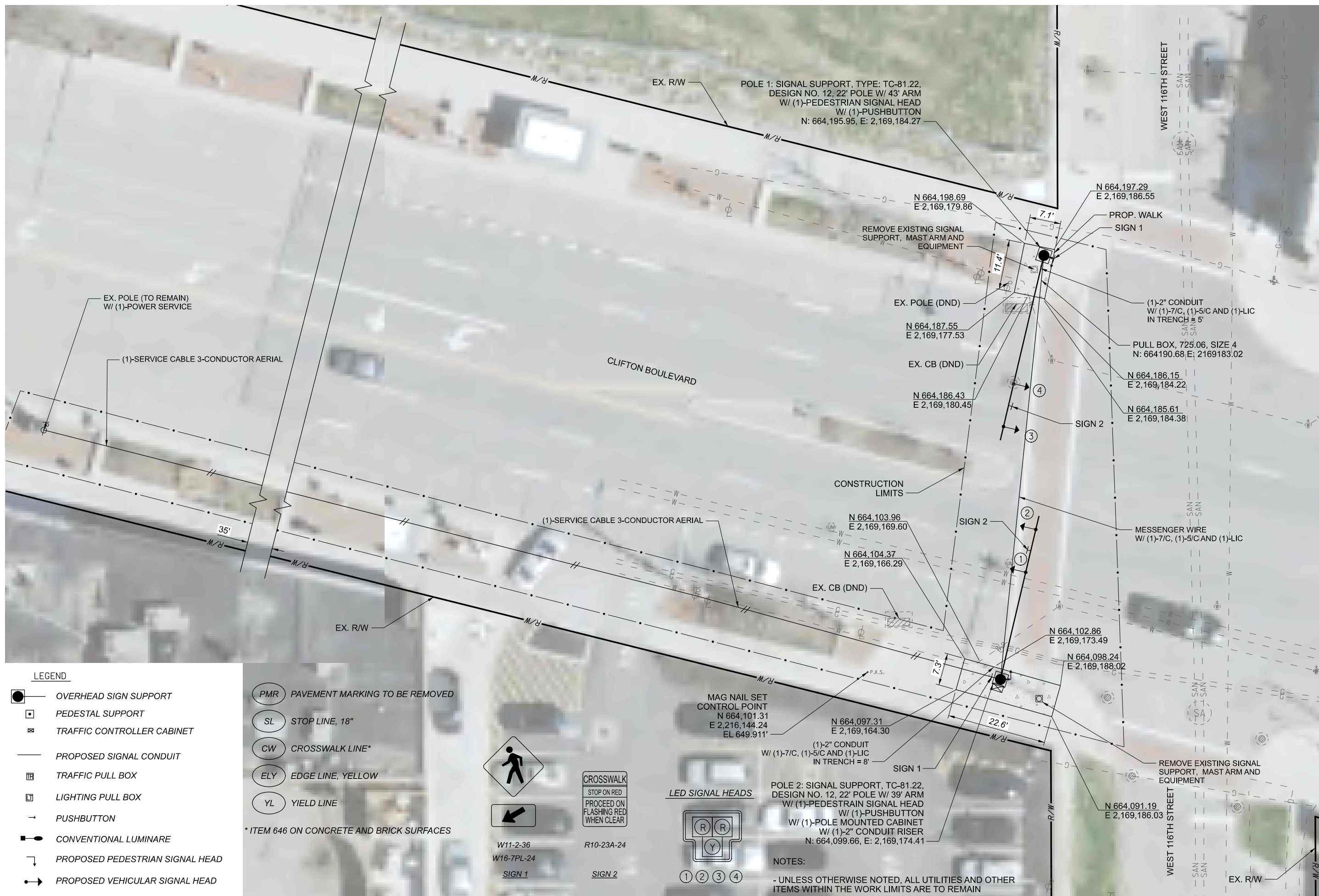
NOTES:  
- UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN



DIAGRAMMATIC PLAN  
WEST 112TH STREET & CLIFTON BOULEVARD

DESIGN AGENCY	
<b>B&amp;N</b> burgensteph.com	
DESIGNER	MDO
REVIEWER	AR
PROJECT ID	113330
SHEET	TOTAL
48	91





**LEGEND**

- OVERHEAD SIGN SUPPORT
- PEDESTAL SUPPORT
- TRAFFIC CONTROLLER CABINET
- PROPOSED SIGNAL CONDUIT
- TRAFFIC PULL BOX
- LIGHTING PULL BOX
- PUSHBUTTON
- CONVENTIONAL LUMINARE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED VEHICULAR SIGNAL HEAD

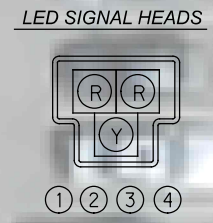
- PMR PAVEMENT MARKING TO BE REMOVED
  - SL STOP LINE, 18"
  - CW CROSSWALK LINE\*
  - ELY EDGE LINE, YELLOW
  - YL YIELD LINE
- \* ITEM 646 ON CONCRETE AND BRICK SURFACES



W11-2-36  
 W16-7PL-24  
 SIGN 1

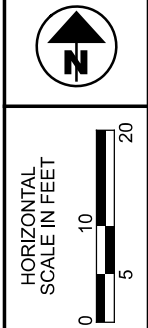


R10-23A-24  
 SIGN 2



POLE 2: SIGNAL SUPPORT, TC-81.22, DESIGN NO. 12, 22' POLE W/ 39' ARM W/ (1)-PEDESTRIAN SIGNAL HEAD W/ (1)-PUSHBUTTON W/ (1)-POLE MOUNTED CABINET W/ (1)-2\"/>











NOTES:  
 - UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN








DIAGRAMMATIC PLAN  
 WEST 116TH STREET & CLIFTON BOULEVARD

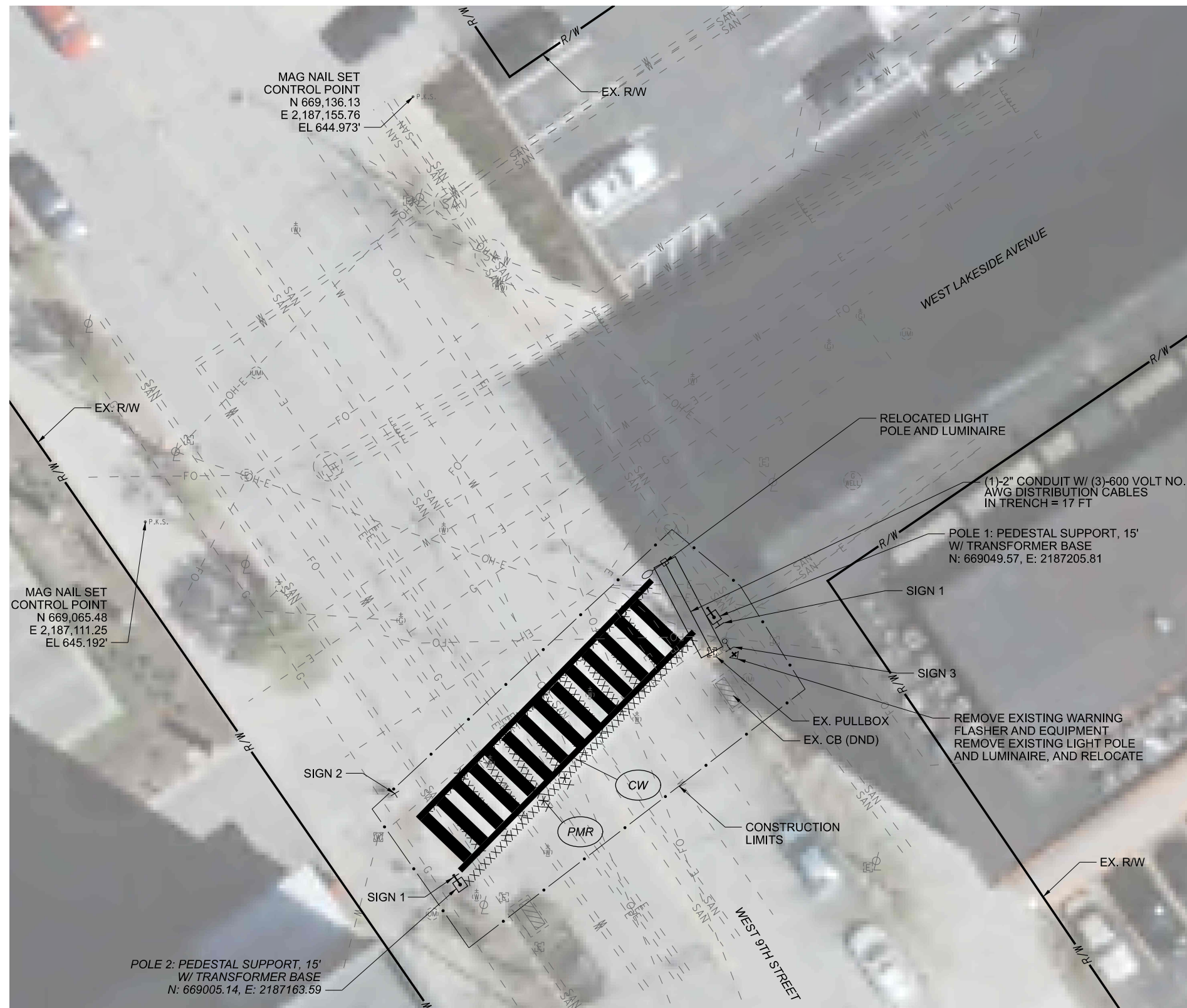
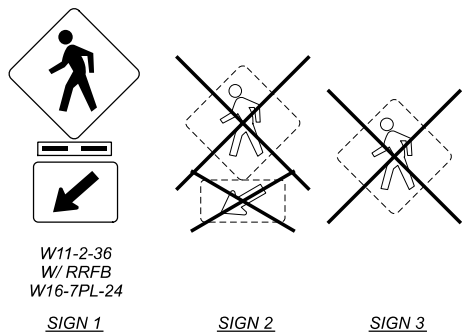
DESIGN AGENCY	
<b>B&amp;N</b> burgesnicole.com	
DESIGNER	MDO
REVIEWER	AR
PROJECT ID	113330
SHEET	TOTAL
51	91

LEGEND

-  OVERHEAD SIGN SUPPORT
-  PEDESTAL SUPPORT
-  TRAFFIC CONTROLLER CABINET
-  PROPOSED SIGNAL CONDUIT
-  TRAFFIC PULL BOX
-  LIGHTING PULL BOX
-  PUSHBUTTON
-  CONVENTIONAL LUMINAIRE
-  PROPOSED PEDESTRIAN SIGNAL HEAD
-  PROPOSED VEHICULAR SIGNAL HEAD

-  PAVEMENT MARKING TO BE REMOVED
-  STOP LINE, 18"
-  CROSSWALK LINE\*
-  EDGE LINE, YELLOW
-  YIELD LINE

\* ITEM 646 ON CONCRETE AND BRICK SURFACES



NOTES:

- UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN



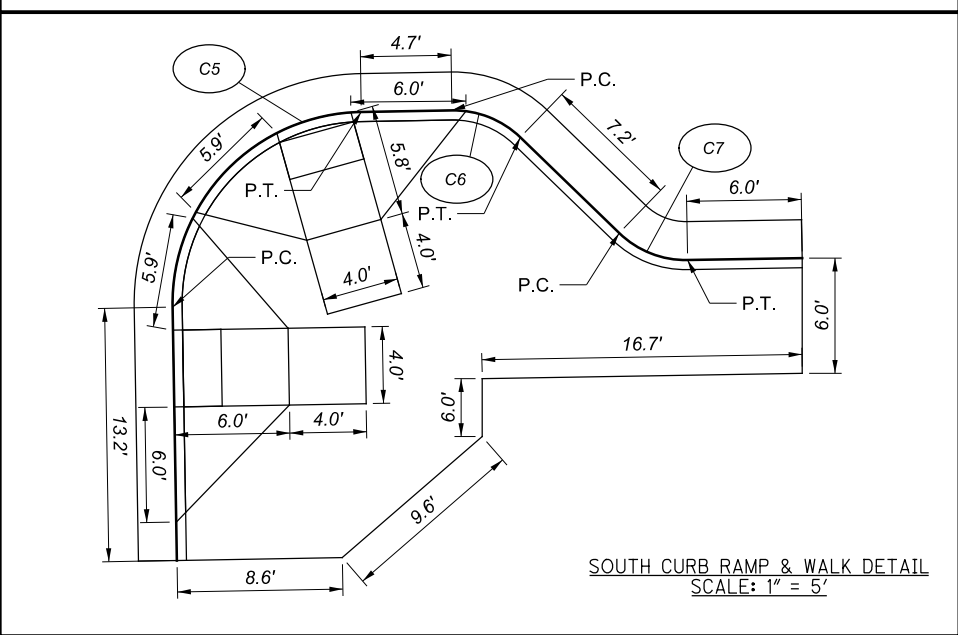
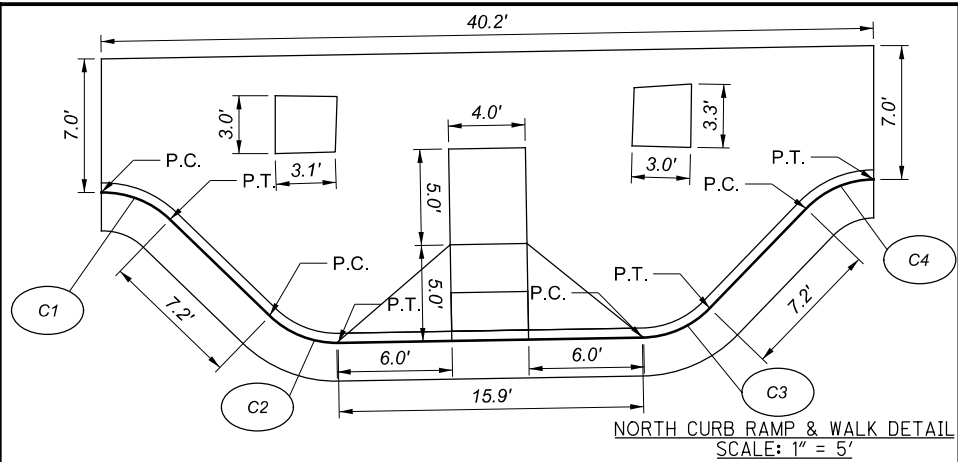
DIAGRAMMATIC PLAN  
 WEST 9TH STREET & WEST LAKESIDE AVENUE

DESIGN AGENCY



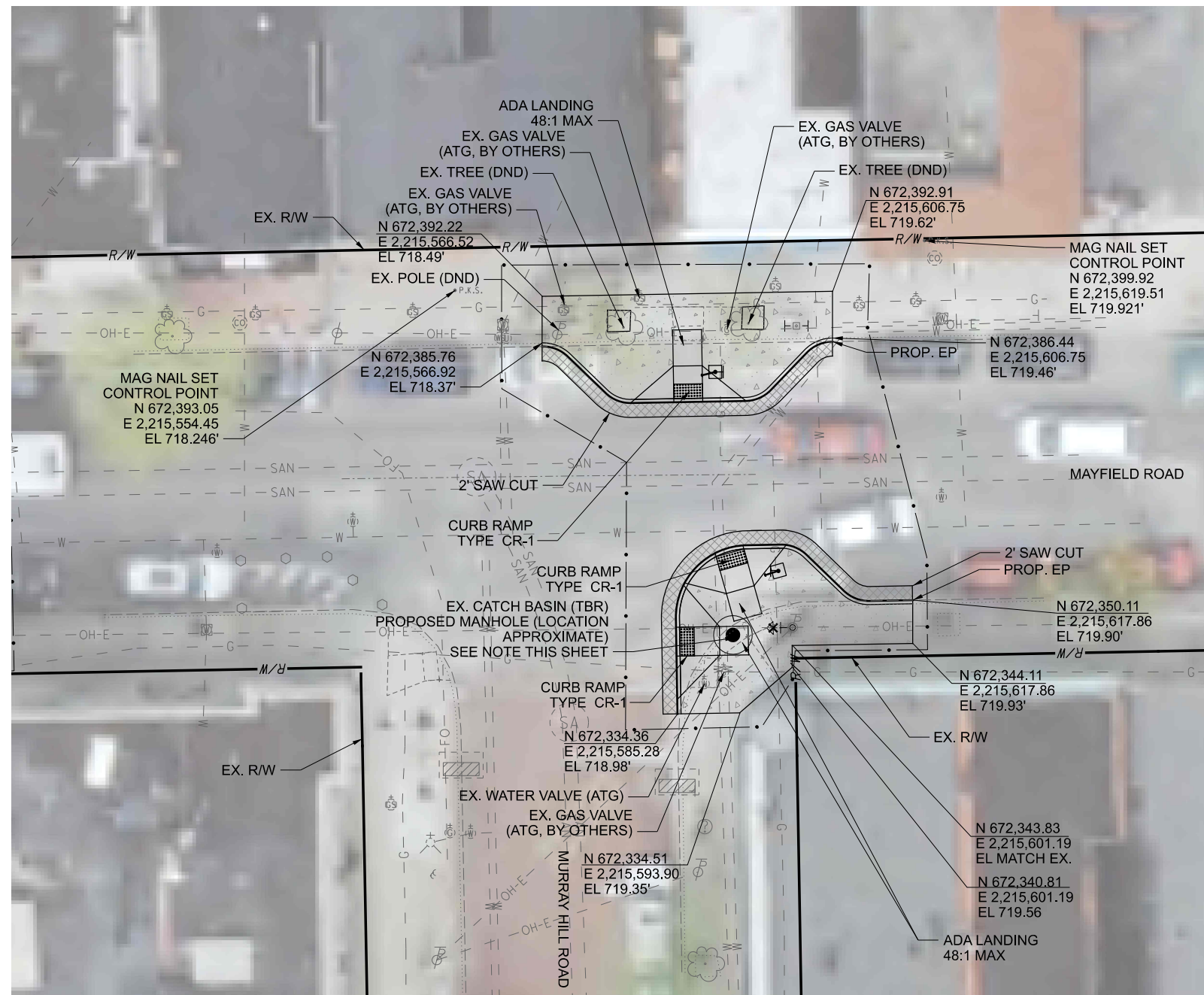
DESIGNER	MDO
REVIEWER	AR
DATE	12/4/2020
PROJECT ID	113330
SHEET	TOTAL
63	91





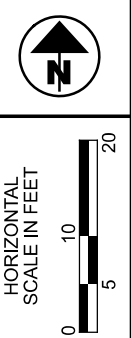
- PAVEMENT REMOVED
- PROPOSED CONCRETE WALK

CURVE NO.	RADIUS	CENTER POINT		BEGIN CURVE (PC)			END CURVE (PT)		
		NORTHING	EASTING	NORTHING	EASTING	ELEV. (TOC)	NORTHING	EASTING	ELEV. (TOC)
C1	5.0'	672380.26	2215566.62	672385.26	2215566.53	718.25	672383.85	2215570.10	718.40
C2	5.0'	672382.43	2215578.77	672378.83	2215575.29	718.71	672377.43	2215578.85	718.86
C3	10.0'	672382.70	2215594.62	672377.70	2215594.71	719.27	672379.22	2215598.22	719.31
C4	10.0'	672380.94	2215606.83	672384.42	2215603.24	719.28	672385.94	2215606.75	719.32
C5	10.0'	672347.73	2215595.05	672347.55	2215585.06	718.91	672357.73	2215594.89	719.28
C6	5.0'	672352.81	2215599.69	672357.80	2215599.61	719.38	672356.40	2215603.17	719.42
C7	5.0'	672355.01	2215611.80	672351.41	2215608.33	719.37	672350.01	2215611.89	719.41



**PROPOSED MANHOLE**  
 CONTRACTOR SHALL RECONSTRUCT EXISTING CATCH BASIN TO A MANHOLE. CONTRACTOR SHALL USE EXTREME CARE TO NOT DISTURB ANY UTILITIES NEAR THE EXISTING STRUCTURE. CONTRACTOR SHALL ALSO TAKE CARE TO ENSURE NO VERTICAL DIFFERENCES BETWEEN THE MANHOLE LID AND THE CURB RAMP LANDING. ADDITIONAL QUANTITIES ARE SHOWN IN THE GENERAL NOTES FOR PAVEMENT WARPING TO ENSURE POSITIVE DRAINAGE.

- NOTES:**
- UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN
  - CONTRACTOR TO CONFIRM TIE-IN ELEVATIONS FOR WALK AND CURB REPLACEMENT OUTSIDE OF SURVEY LIMITS. CONTRACTOR TO MATCH EXISTING ELEVATION AT LOCATIONS CALLED OUT ON THE SHEET.



**DETAILED PLAN - ROADWAY**  
**MAYFIELD ROAD & MURRAY HILL ROAD**

DESIGN AGENCY  
  
 burgensteph.com

DESIGNER  
 MDO

REVIEWER  
 AR 12/4/2020

PROJECT ID  
 113330

SHEET TOTAL  
 70 91