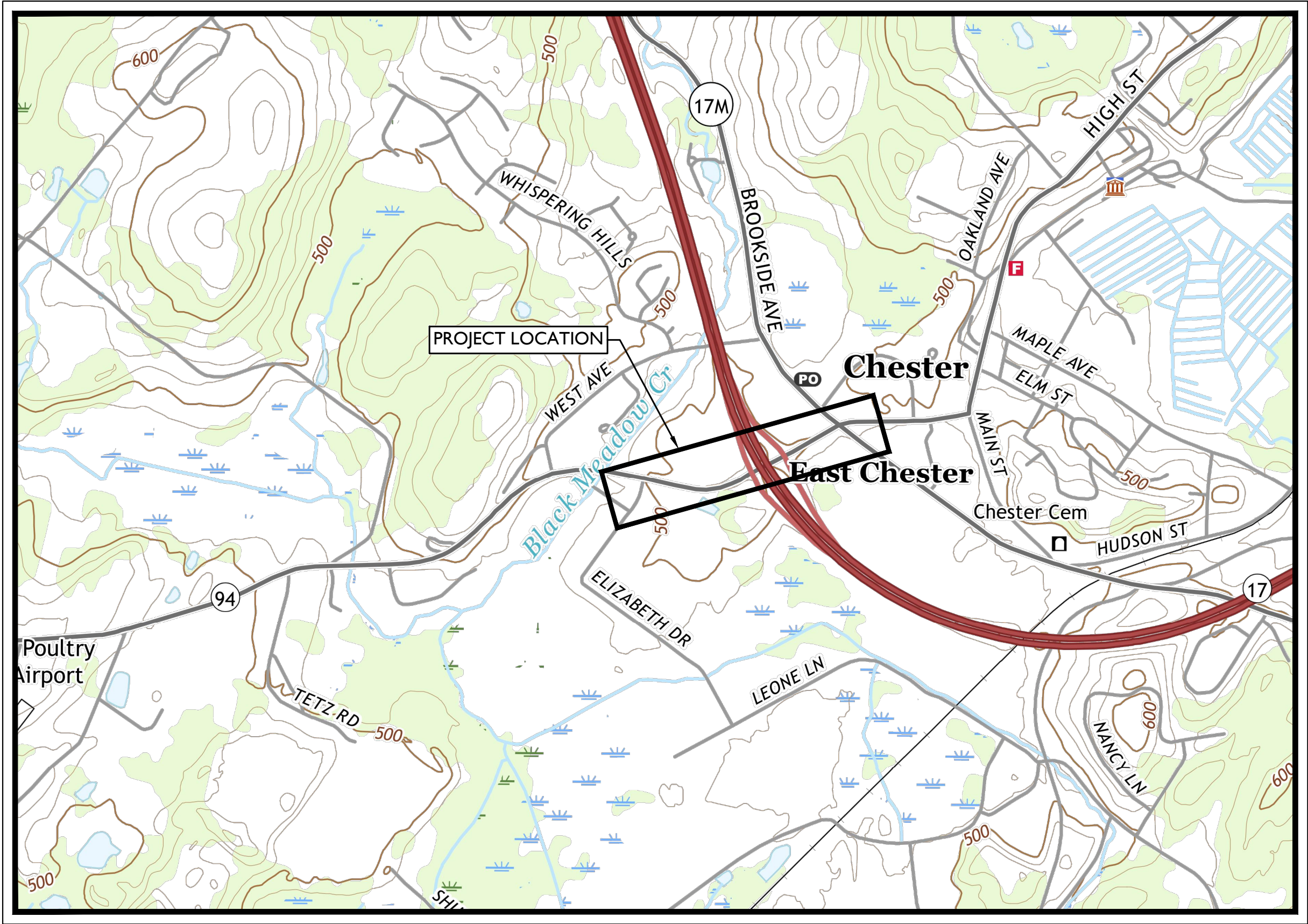


HIGHWAY IMPROVEMENT PLANS  
FOR  
SUMMERVILLE INDUSTRIAL PARK  
NYS ROUTE 94  
VILLAGE OF CHESTER  
ORANGE COUNTY, NEW YORK

DESIGN TRAFFIC DATA NYS ROUTE 94	
A.A.D.T.	7,896
POSTED SPEED LIMIT	40 MPH
DESIGN SPEED	60 MPH



KEY MAP

SCALE: 1" = 1000'

SOURCE: U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY

NEW YORK DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS,  
LATEST REVISION, TO GOVERN.

NEW YORK DEPARTMENT OF TRANSPORTATION STANDARD SHEETS DATED,  
LATEST REVISION, ARE APPLICABLE TO THIS PROJECT

INDEX OF SHEETS		
NUMBER OF SHEETS	SHEET NUMBERS	DESCRIPTION
1	CS-01	COVER SHEET
2	GN-01 - GN-02	GENERAL NOTES
1	DTL-01	CONSTRUCTION DETAILS
1	TYP-01	TYPICAL SECTIONS
2	PROF-01 - PROF-02	PROFILE PLANS
5	LP-01 - LP-05	CONSTRUCTION & LAYOUT PLANS
5	GD-01 - GD-05	GRADING & DRAINAGE PLANS
5	SP-01 - SP-05	SIGNING & STRIPING PLANS
12	TS-01 - TS-12	TRAFFIC SIGNAL PLANS
4	WZTC-01 - WZTC-04	WORK ZONE TRAFFIC CONTROL PLAN
38		

Colliers

Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design. All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as



PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATIONS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE



FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK

Colliers

Engineering  
& Design

WESTCHESTER  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN, C.P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE:

AS SHOWN:

DATE:

8/28/23

DRAWN BY:

J.F.M.

CHECKED BY:

P.J.G.

PROJECT NUMBER:

22010640A

DRAWING NAME:

CS-01

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

CS-01

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.







WORK ZONE TRAFFIC CONTROL NOTES

1. GENERAL

THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF §SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, MUTCD AND THE CONTRACT DOCUMENTS, WHERE PROVIDED, OR AS ORDERED BY ENGINEER (A.O.B.E.)

2. CONSTRUCTION EQUIPMENT & MATERIALS

CONTRACTOR EQUIPMENT, WHEN NOT IN USE, AND MATERIALS AWAITING INSTALLATION SHALL BE PROPERLY STORED, STOCKPILED, AND SITED IN A PROTECTED LOCATION (I.E. BEHIND A PHYSICAL BARRIER OR IN SUCH A MANNER THAT HORIZONTAL CLEARANCE OF AT LEAST 30 FEET IS PROVIDED FROM THE OUTSIDE EDGE OF THE TRAVELED WAY) AND SHALL NOT CONSTITUTE A TRAFFIC HAZARD NOR INTERFERE WITH DRAINAGE COURSES. MATERIALS OR EQUIPMENT SHALL NOT BE LEFT IN FRONT OF OR WITHIN THE DEFLECTION DISTANCE BEHIND GUIDE RAIL AND SAFETY APPURTENANCES SO AS TO COMPROMISE THEIR PERFORMANCE. PARKING VEHICLES

PRIVATE VEHICLES OWNED BY THE CONTRACTOR AND ITS EMPLOYEES SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS, OR ANY OTHER AREAS DEEMED BE THE ENGINEER TO BE HAZARDOUS LOCATIONS.

3. WORK ZONES

WORK ZONES SHALL BE LIMITED TO ONE SIDE OF THE TRAVELED WAY AT A TIME, UNLESS APPROVED BY THE ENGINEER. WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THE AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES OR THAT AREA WHICH INVOLVES A DROP-OFF NEXT TO THE PAVEMENT. IN SPECIAL CASES THE LONGITUDINAL DISTANCE BETWEEN WORK ZONES OR THE LENGTH OF THE WORK ZONE MAY BE LIMITED BY THE ENGINEER.

4. OVERLAPPING WORK AREAS

THE CONTRACTOR SHALL COORDINATE HIS WORK SO THERE IS NO CONFLICT IN CONSTRUCTION SIGNING IN OVERLAPPING WORK AREAS AND SO THAT LANE CONTINUITY IS MAINTAINED BETWEEN WORK AREAS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ANY OTHER CONTRACTORS, PUBLIC MAINTENANCE, OR UTILITIES COMPANY'S OPERATIONS IN THE AREA TO ENSURE PROPER WORK ZONE TRAFFIC CONTROL.

5. CONES, DRUMS, BARRICADES AND MARKERS

CHANNELIZING DEVICES AND THEIR PLACEMENT SHALL CONFORM WITH THE REQUIREMENTS OF NYSDOT STANDARD SPECIFICATION §619-3.02J AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN PLACEMENT OF THE CONES, DRUMS, AND MARKERS OR BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE.

6. VEHICLE RESTRICTIONS

WHENEVER CONSTRUCTION CONDITIONS RESTRICT PASSAGE BY OVERSIZED VEHICLES, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE REGIONAL PERMIT ENGINEER. THE NOTICE SHALL INCLUDE THE EXACT LOCATION, NATURE AND MAXIMUM ALLOWABLE WIDTH, WIEGHT AND OTHER FACTORS, THIS WRITTEN NOTICE SHALL BE GIVEN ONE WEEK PRIOR TO THE BEGINNING OF THE RESTRICTION. VERBAL NOTICE SHALL BE GIVEN UPON TERMINATION OF THE RESTRICTION.

7. TAPER LENGTHS

TAPER LENGTHS FOR CLOSURES AND LATERAL SHIFTS OF TRAVEL LANES SHALL CONFORM TO STANDARD SHEET 619-011 TABLE 011-02 BASED ON THE PRECONSTRUCTION POSTED SPEED LIMIT OF 40 MPH OR AS DIRECTED BY THE ENGINEER.

8. TEMPORARY PAVEMENT MARKINGS

THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, USING PATTERNS AND COLORS SHOWN IN THE MUTCD TO ESTABLISH TEMPORARY TRAFFIC PATTERN(S) DURING CONSTRUCTION ON ANY PAVEMENT, INCLUDING MILLED OR GROOVED SURFACE, RESURFACED, NEW PAVEMENT, OR OTHER PAVED SURFACE WITHOUT PAVEMENT MARKINGS. FOR A MAXIMUM OF 14 CALENDAR DAYS, THIS SHALL INCLUDE AT ALL APPROPRIATE LOCATIONS, EDGE LINES, LANE LINES, (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE NYSDOT STANDARD SPECIFICATION §619-3.06 AND THE MUTCD AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES.

TRAFFIC PAINT NEED NOT BE REMOVED BEFORE PLACING A SUBSEQUENT PAVEMENT COURSE. REMOVABLE PAVEMENT TAPE, REMOVABLE WET-NIGHT REFLECTIVE TAPE, TEMPORARY OVERLAY MARKERS AND REMOVABLE RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACING A SUBSEQUENT PAVEMENT COURSE AT NO ADDITIONAL COST TO THE STATE.

TEMPORARY PAVEMENT MARKING STRIPES SHALL BE A MINIMUM OF 4 INCHES IN WIDTH. TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED TO A CLEAN, DRY PAVEMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. HATCH LINES AND SYMBOLS WILL NOT BE REQUIRED AS TEMPORARY PAVEMENT MARKINGS UNLESS REQUIRED BY THE CONTRACT DOCUMENTS.

9. SIGNS

THE CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION SIGNS IN GOOD CONDNITION TO ADEQUATELY AND SAFELY INFORM AND DIRECT MOTORISTS, BICYCLISTS, AND PEDESTRIANS. EXISTING AND CONSTRUCTION SIGNS SHALL INDICATE ACTUAL ROADWAY CONDITIONS, AND SHALL BE COVERED, UNCOVERED, CHANGED, RELOCATED, OR REMOVED IMMEDIATELY TO REFLECT CURRENT CONDITIONS AT ALL TIMES AND AT THE DIRECTION OF THE ENGINEER. CONSTRUCTION SIGNS SHALL BE COVERED OR REMOVED WHEN THEY NO LONGER INDICATE ACTUAL CONDITIONS. THE CONTRACTOR SHALL PROVIDE MEASURES TO PROTECT WORKERS DURING PLACEMENT AND REMOVAL OF CONSTRUCTION SIGNS ADEQUATE FOR THE PREVAILING SPEED, VOLUME OF TRAFFIC AND ROADWAY GEOMETRY WHERE THE WORK IS TO OCCUR. SUCH PROTECTION MAY INCLUDE, BUT IS NOT LIMITED TO, THE USE OF FLAGGERS, SPOTTERS, AND SHADOW VEHICLES EQUIPPED WITH TRUCK-MOUNTED OR TRAILER MOUNTED ATTENUATORS. WHERE PEDESTRIAN ACCESS IS PROHIBITED, WORKERS SHALL NOT CROSS OR ENTER TRAVEL LANES OPEN TO TRAFFIC.

ALL SIGNS SHALL BE KEPT CLEAN, MOUNTED AT THE REQUIRED HEIGHT ON ACCEPTABLE SUPPORTS, AND INSTALLED IN THE PROPER POSITION, ALIGNMENT, AND ORIENTATION SO AS TO GIVE MAXIMUM VISIBILITY. CONSTRUCTION SIGNS WILL BE EVALUATED FOR ACCEPTABILITY IN ACCORDANCE WITH THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) QUALITY GUIDELINES FOR WORK ZONE TRAFFIC CONTROL DEVICES. WHEN AUXILIARY PANELS ARE MOUNTED ABOVE OR BELOW A WARNING OR REGULATORY SIGN, THEY SHALL NOT COVER ANY PART OF THE WARNING OR REGULATORY SIGN. SIGNS SHALL BE PLACED SO THAT EACH SIGN IS VISIBLE AT NIGHT, AT THE DESIRED DISTANCE, WITHOUT BEING OBSCURED BY ANOTHER SIGN, EXISTING FEATURES ON THE HIGHWAY, OR FOLIAGE. THE FACES OF STORED SIGNS SHALL NOT BE VISIBLE TO TRAFFIC IN ANY DIRECTION, REGARDLESS OF THE ORIENTATION OF THE SIGN. SIGN PANELS, MOUNTINGS, AND SIGN COVERINGS SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS §619-3.02H.

10. GUIDE RAIL WORK

ANY FREE ENDS OF GUIDE RAIL SHALL BE PROTECTED FROM IMPACT AT THE DIRECTION OF THE ENGINEER. THE COST OF TEMPORARILY TERMINATING GUIDE RAIL SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM. WHEN CONSTRUCTION OPERATIONS REQUIRE THE TEMPORARY REMOVAL OF GUIDE RAIL OR MEDIAN BARRIER, OR WHEN EXISTING RAIL WILL BE REMOVED AND REPLACED WITH NEW RAIL, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE THE TIME PERIOD THAT RAIL IS NOT INSTALLED. GUIDE RAIL OR MEDIAN BARRIER SHALL BE REPLACED, OR THE LOCATION OTHERWISE PROTECTED WITHIN 14 CALENDAR DAYS.

DURING NON-WORK HOURS WHEN TRAFFIC IS BEING MAINTAINED ON THE FACILITY, ALL TEMPORARY ENDS (FREE ENDS) OF GUIDE RAIL AND MEDIAN BARRIER SHALL BE TEMPORARILY TERMINATED AND MARKED WITH A CHANNELIZING DRUM OR OBJECT MARKER EQUIPPED WITH A TYPE A FLASHING WARNING LIGHT. CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER, AND HEAVY-POST, BLOCKED-OUT, CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER SHALL BE TEMPORARILY TERMINATED BY HAVING THE EXPOSED ENDS (FREE ENDS) DROPPED TO THE GROUND AND PINNED. THE APPROACH ENDS OF BOX BEAM GUIDE RAIL AND MEDIAN BARRIER SHALL BE TEMPORARILY TERMINATED WITH BOX BEAM GUIDE RAIL END ASSEMBLIES UTILIZING TWO SPLICE PLATES AND THE PROPER NUMBER OF BOLTS PER CONNECTION. NO POSTS FOR ANCHORAGES WILL BE REQUIRED. SPECIAL TEMPORARY SPLICE PLATES ARE REQUIRED TO ADAPT BOX BEAM GUIDE RAIL END ASSEMBLIES TO BOX BEAM MEDIAN BARRIERS.

DURING ANY OVERNIGHT PERIOD WHEN EXISTING GUIDE RAIL OR MEDIAN BARRIER IS TEMPORARILY REMOVED, THE CONTRACTOR SHALL INSTALL CHANNELIZING DEVICES IN THE LOCATION WHERE THE GUIDE RAIL OR MEDIAN BARRIER WAS REMOVED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS §619-3.02J.6.

FOR EACH CALENDAR DAY WHICH THERE ARE SUBSTANTIAL DEFICIENCIES IN COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION, NO PAYMENT WILL BE MADE UNDER THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

11. PRELIMINARY WORK

PRIOR TO THE START OF ANY CONSTRUCTION PHASE, ALL PROPOSED WORK ZONE TRAFFIC CONTROL RELATED WORK FOR THAT PHASE, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES WHERE APPLICABLE, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.) PAVEMENT MODIFICATION AND ANY OTHER RELATED WORK.

12. MISCELLANEOUS

IN THE EVENT THE CONTRACTOR SHUTS DOWN HIS OPERATION FOR THE WINTER MONTHS, THE ENTIRE HIGHWAY SYSTEM SHALL BE OPENED TO TRAFFIC. ALL EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION AT THE DIRECTION OF THE ENGINEER. ALL CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED.

ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT OR CONDUIT EXCAVATION SHALL BE REOPENED AT THE END OF THE WORK SHIFT. WHEN WORK IS NOT IN PROGRESS ALL OPENINGS IN THE ROADWAY SHALL BE COVERED WITH ANCHORED STEEL PLATES OR SHALL BE BACKFILLED IN ACCORDANCE WITH § 680-3.09 TO A DEPTH OF 3 INCHES BELOW THE ADJACENT UNEXCAVATED AREA OR TO A DEPTH AS DIRECTED BY THE ENGINEER. THE TEMPORARY RESTORATION SHALL BE COMPLETED WITH A LAYER OF PLANT BITUMINOUS MATERIAL UP TO THE LEVEL OF THE ADJACENT UNEXCAVATED AREA TO THE SATISFACTION OF THE ENGINEER. THE TEMPORARY RESTORATION SHALL BE MAINTAINED UNTIL ITS REMOVAL AT NO ADDITIONAL COST TO THE PERMITTEE/OWNER. ANY RE-EXCAVATION OF TEMPORARY RESTORATION AREAS SHALL BE INCLUDED IN THE PRICE BID FOR RESPECTIVE EXCAVATION ITEM WITH NO EXTRA PAYMENT.

IF STEEL PLATES ARE USE, THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF ANCHORING THE STEEL PLATES TO THE ENGINEER FOR HIS APPROVAL PRIOR TO THE STARTING OF ANY ROADWAY EXCAVATION. THE STEEL PLATES SHALL BE RAMPED WITH A BITUMINOUS MATERIAL PRIOR TO OPENING THE LANE.

THE CONTRACTOR MUST NOTIFY PROPERTY OWNERS AT LEAST ONE DAY IN ADVANCE OF CLOSING DRIVEWAYS AND HAS THE RESPONSIBILITY TO MAINTAIN SAFE AND PROPER ACCESS TO BUILDINGS IN THE VICINITY OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM FIRE HOUSES AT ALL TIMES.

THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY HIS OPERATION OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF THE ROADWAY AT THE SAME TIMES.

THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO MINIMIZE THE INTERRUPTION OF PEDESTRIAN TRAFFIC. ANY CLOSURE OF PEDESTRIAN ROUTES SHALL BE ACCOMPANIED BY A PEDESTRIAN DETOUR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER.

IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION §107-05.F THE CONTRACTOR SHALL IDENTIFY, GUARD AND PROTECT RESTRICTED AREAS SUCH AS OPEN AND UNATTENDED EXCAVATIONS, AREAS SUBJECT TO FALLING DEBRIS AND OTHER POTENTIALLY HAZARDOUS LOCATIONS IN AND ADJACENT TO AREAS LAWFULLY FREQUENTED BY ANY PERSON IN ACCORDANCE WITH THE REQUIREMENTS OF 29 CFR 1926 SUBPART G. PAYMENT FOR INSTALLATION AND REMOVAL OF THIS ITEM SHALL BE INCLUDED THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

13. FLAGGER

FLAGGING, INCLUDING FLAGGER TRAINING, FLAGGER EQUIPMENT, AND OPERATIONAL CONTROL, SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD SPECIFICATION §619-3.02L. ALL COSTS ASSOCIATED WITH FLAGGING SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

14. LANE CLOSURES

THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION AND SHALL PROVIDE FLAGGERS AS NECESSARY AS DIRECTED BY THE ENGINEER. THE MINIMUM WIDTH OF A TRAVELED LANE SHALL BE 10 FEET UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS.

AT THE SITE OF PAVING OR OTHER WORK OPERATION REQUIRING TEMPORARY CLOSURE OF PORTIONS OF THE TRAVELED WAY, THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC AND SHALL PROVIDE FLAGGERS TO CONTROL TRAFFIC MOVEMENT.

THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN, AND DURING WEEKDAY HOURS OF 6:30 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION MANAGEMENT CENTER AT 914-742-6100 ONE WEEK PRIOR TO ANY POSSIBLE LANE CLOSURE.

THE CONTRACTOR SHALL ALSO BE AWARE OF THE STATE'S LANE CLOSURE RESTRICTIONS FOR MAJOR HOLIDAYS. CONSTRUCTION ACTIVITIES THAT WILL RESULT IN TEMPORARY LANE CLOSURES SHALL BE SUSPENDED TO MINIMIZE TRAVEL DELAYS ASSOCIATED WITH ROAD WORK FOR MAJOR HOLIDAYS AS FOLLOWS:

HOLIDAY	FALLS ON	TEMPORARY LANE CLOSURES ARE NOT ALLOWED FROM
NEW YEAR'S DAY INDEPENDENCE DAY CHRISTMAS DAY	SUNDAY OR MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
	TUESDAY	6:00 AM SATURDAY BEFORE TO 6:00 AM WEDNESDAY AFTER (STARTING AT 6:00 AM FRIDAY BEFORE TO 6:00 AM WEDNESDAY AFTER FOR CHRISTMAS DAY)
	WEDNESDAY	6:00 AM TUESDAY BEFORE TO 6:00 AM THURSDAY AFTER (STARTING AT 6:00 AM SATURDAY BEFORE TO 6:00 AM THURSDAY AFTER FOR CHRISTMAS DAY)
	THURSDAY	6:00 AM THURSDAY TO 6:00 AM MONDAY AFTER (STARTING AT 6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER FOR CHRISTMAS DAY)
	FRIDAY OR SATURDAY	6:00 AM THURSDAY BEFORE TO 6:00 AM MONDAY AFTER
MEMORIAL DAY LABOR DAY	MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
THANKSGIVING DAY	THURSDAY	6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER

15. PUBLIC INGRESS AND EGRESS

AS SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO AND MINIMUM WIDTHS FOR THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL PHASES OF WORK. DRIVEWAYS SHALL BE DELINEATED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS §619-3.02J OR AS DIRECTED BY THE ENGINEER.

WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH A PLAN TO THE ENGINEER FOR APPROVAL BEFORE OPERATIONS COMMENCE. COST FOR THIS WORK SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM. ACCESS SHALL BE PROVIDED TO ALL DRIVEWAYS BEHIND TEMPORARY CONCRETE BARRIER WHEN USED AS DIRECTED BY THE ENGINEER. SIGNS DENOTING COMMERCIAL ESTABLISHMENTS SHALL BE PROVIDED AND PLACED NEXT TO THESE DRIVEWAYS. SIGNS SHALL BE AS APPROVED BY THE ENGINEER.

THE COST FOR ALL DELINEATION AND CHANNELIZING DEVICES (CONES, DRUMS, ETC.) SHALL BE IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

16. CONSTRUCTION INGRESS AND EGRESS

THE CONTRACTOR SHALL KEEP TO A MINIMUM MOVEMENT IN AND OUT OF DESIGNATED TRAVEL LANES WITH CONSTRUCTION VEHICLES AND EQUIPMENT. SEE ALSO NYSDOT STANDARD SPECIFICATION §619-3.02F.

17. DELINEATORS

SINGLE UNIT LARGE DELINEATORS AT 40-FOOT SPACING SHALL BE INSTALLED WITHIN THE LIMITS OF THE WORK ZONE WHERE EXISTING TRAVEL LANE WIDTHS ARE REDUCED AND TRAFFIC IS ADJACENT TO TEMPORARY POSITIVE BARRIER, GUIDE RAILING, OR BOTH. WHITE DELINEATORS SHALL BE DISPLAYED ON THE RIGHT SIDE OF THE TRAVELED WAY AND YELLOW SHALL BE DISPLAYED ON THE LEFT. TEMPORARY POSITIVE BARRIER SECTIONS SEPARATING TWO-WAY TRAFFIC SHALL HAVE YELLOW DELINEATORS INSTALLED BACK-TO-BACK. DELINEATORS, POSTS, AND BRACKETS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SPECIFICATIONS AND CURRENT 646 STANDARD SHEETS. PAYMENT WILL BE MADE UNDER ITEM 646.23, ITEM 646.31, AND ITEM 646.50. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL POSTS INSTALLED FOR THE WORK ZONE AT NO ADDITIONAL COST TO THE OWNER/PERMITTEE. REMOVED POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE WORK SITE IN A NEAT MANNER.

18. CHANGES TO WORK ZONE TRAFFIC CONTROL PLAN

THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS. EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OR SCOPE OF THE WORK ZONE TRAFFIC CONTROL PLAN, SUCH CHANGES TO THE BASIC CONCEPT OR SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF THIRTY (30) CALENDAR DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

19. REQUIREMENTS FOR PORTABLE VARIABLE MESSAGE SIGNS

WHERE TRAFFIC WILL BE RIDING ON MILLED OR GROOVED PAVEMENT AND THE POSTED SPEED LIMIT IS 40 MPH OR GREATER, THE CONTRACTOR SHALL PLACE A PORTABLE VARIABLE MESSAGE SIGN IN ADVANCE OF THE MILLED OR GROOVED PAVEMENT WARNING MOTORCYCLE RIDERS TO USE CAUTION. PAYMENT SHALL BE MADE UNDER ITEM 619.1105I2.

20. ENFORCEABLE REDUCED REGULATORY SPEED LIMIT AND ADVISORY SPEED SIGNS

ALL REDUCTIONS IN REGULATORY SPEED LIMITS AND ADVISORY SPEEDS ASSOCIATED WITH WORK ZONES MUST BE APPROVED, IN WRITING AND IN ADVANCE, BY THE REGIONAL TRAFFIC ENGINEER OR HIS/HER DESIGNEE.

THE CONTRACTOR MAY REQUEST APPROVAL OF REDUCED REGULATORY SPEED LIMITS AND ADVISORY SPEEDS FOR SHORT-TERM STATIONARY WORK ZONE WHERE SUCH PROVISIONS ARE NOT OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. REQUEST MUST BE SUBMITTED THROUGH THE ENGINEER TO THE REGIONAL TRAFFIC ENGINEER A MINIMUM OF FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF THE SCHEDULED IMPLEMENTATION OF ANY WORK ZONE CONTAINING THE REQUESTED REDUCED REGULATORY SPEED LIMITS AND/OR ADVISORY SPEEDS.

GENERALLY, TO QUALIFY FOR A REDUCTION IN REGULATORY SPEED LIMIT AT A SHORT-TERM STATIONARY WORK ZONE, THE WORK ZONE MUST CONTAIN AN ACTIVITY AREA THAT IS GREATER THAN ½ MILE ON A HIGHWAY WITH A PRECONSTRUCTION POST SPEED LIMIT OF 55 MPH OR GREATER AND BE OF A DURATION EXCEEDING FOUR (4) HOURS WHERE WORKERS ARE ON FOOT IN THE ACTIVITY AREA AND ARE NOT PREDOMINANTLY SEPARATED FROM TRAFFIC BY A POSITIVE BARRIER. IF APPROVED, THE REDUCED REGULATORY SPEED SHALL BE NO MORE THAN 10 MPH BELOW THE PRECONSTRUCTION POSTED SPEED LIMIT. IN LONG WORK ZONES WITH SEVERAL INTERMITTENT ACTIVITY AREAS, THE PRECONSTRUCTION POSTED SPEED LIMIT SHALL BE RESTORED BETWEEN ACTIVITY AREAS THAT ARE SEPARATED BY TWO (2) OR MORE MILES.

TO QUALIFY FOR AN ADVISORY SPEED AT A SHORT-TERM STATIONARY WORK ZONE, HAZARDOUS WORK ZONE CONDITIONS MUST EXIST THAT WARRANT A LOCALIZED REDUCTION IN SPEED. SUCH CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, NARROW LANES, BUMPS, GROOVED PAVEMENT, LOW OR NO SHOULDERS, ROADWAY DROP-OFFS, POOR ROADWAY SURFACE, POOR SIGHT DISTANCE, GEOMETRIC CONSTRAINTS AND EXPOSED WORKERS ADJACENT TO ACTIVE TRAFFIC.

IF A REDUCTION IN REGULATORY SPEED LIMIT AND/OR ADVISORY SPEED IS APPROVED, THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN REGULATORY SPEED LIMIT AND/OR ADVISORY SPEED SIGNS IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION §619-3.02.H.4 & 5 AND THE MUTCD, AND AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE USED IN CONJUNCTION WITH THE LANE CLOSURE OR OTHER WORK ZONE TRAFFIC CONTROL SIGNS AND SHALL BE COVERED OR REMOVED WHEN WORK ZONE TRAFFIC CONTROL PATTERN IS REMOVED EACH DAY. ANY EXISTING REGULATORY SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED DURING THE TIME THE WORK ZONE TRAFFIC CONTROL IS IN PLACE AND UNCOVERED WHEN THE WORK ZONE TRAFFIC CONTROL PATTERN IS REMOVED.

REDUCTIONS IN REGULATORY SPEED LIMITS AND ADVISORY SPEEDS SHALL NOT BE PERMITTED FOR MOBILE OR SHORT DURATION WORK ZONES.

THE COST OF UTILIZING APPROVED REGULATORY OR ADVISORY SPEED ZONE SIGNS, AND COVERING EXISTING SIGNS, SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL.

SPECIAL NOTES

1. WORK ZONE TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SUBCONTRACTORS WORKING FOR THE CONTRACTOR MUST HAVE A COPY OF THE HIGHWAY WORK PERMIT ON THE SITE AND MUST BE FAMILIAR WITH THE TRAFFIC CONTROL REQUIREMENTS. IT IS STRONGLY ADVISED THAT A "TAILGATE" SAFETY MEETING WITH EACH WORK CREW BE INITIATED BEFORE THE START OF ALL WORK

2. WORK ZONE TRAFFIC CONTROL SCHEMES MUST BE IN PLACE AND MAINTAINED THROUGHOUT THE DURATION OF WORK.

3. ALL WORKERS WITHIN THE HIGHWAY ROW SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107 CLASS II STANDARDS AND AN OSHA APPROVED HARD HAT AS SPECIFIED IN NYSDOT STANDARD SPECIFICATIONS §107-05.A.

4. AT THE START OF WORK ON THE PROJECT ALL WORK ZONE TRAFFIC CONTROL DEVICES WILL BE EVALUATED BY THE ENGINEER FOR ACCEPTABILITY IN ACCORDANCE WITH THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) QUALITY GUIDELINES FOR WORK ZONE TRAFFIC CONTROL DEVICES. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE LIFE OF THE PROJECT. FADED AND DETERIORATED PANELS AND NON-STANDARD LEGENDS ARE NOT ACCEPTABLE

5. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND VISIBLE TO THE MOTORIST. THEY SHALL BE COVERED OR REMOVED AT ALL OTHER TIMES. STOP/SLOW PADDLES ARE REQUIRED. THE COST OF FLAGGER SIGNS AND STOP/SLOW PADDLES SHALL BE INCLUDED IN THE WORK ZONE TRAFFIC CONTROL ITEM.

6. FLEXIBLE PANEL AND LIGHTWEIGHT RIGID PANEL SIGNS SHALL BE MOUNTED AT THE SAME HEIGHT AS RIGID PANEL SIGNS, EXCEPT THEY MAY BE MOUNTED, WHEN APPROVED BY THE ENGINEER, AS LOW AS 1 FOOT WHEN ALL CONDITIONS OF NYSDOT STANDARD SPECIFICATION §619-302H.1 ARE MET.

7. NO WORK WITHIN THE STATE R.O.W. SHALL COMMENCE WITHOUT A PRE-CONSTRUCTION MEETING, WITH NYSDOT REPRESENTATIVES PRESENT.

8. AS-BUILT PLANS SHALL BE SENT TO THE NYSDOT IN HARD COPY AND ELECTRONIC FORMAT COMPATIBLE WITH THE SYSTEM CURRENTLY USED BY NYSDOT.

9. THE PERMITTEE IS RESPONSIBLE FOR HIRING AN INSPECTOR TO BE ONSITE DURING ALL CONSTRUCTION OPERATIONS ON THE STATE R.O.V. TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH NYSDOT SPECIFICATIONS. THE INSPECTOR MUST BE EXPERIENCED IN NYSDOT WORK AND SHALL BE APPROVED BY THE STATE PRIOR TO HIRING. THE PERMITTEE IS RESPONSIBLE FOR REIMBURSING THE COST OF SITE VISITS BY A NYSDOT REPRESENTATIVE (RESIDING PERMIT ENGINEER) AS NEEDED.

PAVEMENT EDGE DROP-OFF PROTECTION

A DROP-OFF IS AN ABRUPT DIFFERENCE IN SURFACE ELEVATION OF MORE THAN 2 INCHES AT APPROXIMATELY 1:3H OR STEEPER. IN THE ABSENCE OF ADEQUATE TRAFFIC CONTROL PLANS IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT ALTERNATE TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL AT LEAST 30 CALENDAR DAYS PRIOR TO PROPOSED WORK WHICH WILL CREATE A DROP-OFF OF OVER 24 INCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY FOR DURATIONS LONGER THAN ONE SHIFT.

THE CONTRACTOR SHALL PROVIDE PAVEMENT EDGE DROP-OFF PROTECTION IN ACCORDANCE WITH TABLE 619-3 PAVEMENT EDGE DROP-OFF PROTECTION. CHANNELIZING DEVICES USED TO MARK DROP-OFFS SHALL BE PLACED, AS PRACTICABLE, TO NOT REDUCE THE AVAILABLE TRAVEL LANE WIDTH. AT THE ELEVATION OF THE OPEN TRAVEL LANE IN ORDER TO PROVIDE MAXIMUM TARGET VALUE AND VISIBILITY FOR MOTORISTS.

A DROP-OFF OF GREATER THAN 24 INCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY TO REMAIN AT THE END OF THE WORK SHIFT SHALL BE SEPARATED FROM TRAFFIC WITH TEMPORARY OR PERMANENT BARRIER. FOR POSTED SPEED LIMIT OF 45 MPH AND LESS, A DROP-OFF OF GREATER THAN 24 INCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY THAT IS 100 FEET OR LESS IN LENGTH WILL BE ALLOWED WITH CHANNELIZING DEVICES CONSISTING OF DRUMS, EXTRA TALL CONES, OR OVERSIZED VERTICAL PANELS ONLY AT A MAXIMUM SPACING OF 20 FEET FOR SHORT DURATIONS NOT TO EXCEED ONE WORK SHIFT.

UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BEGIN WORK TO ELIMINATE UNPROTECTED DROP-OFFS CREATED BY CONTRACT WORK WITHIN 7 CALENDAR DAYS OF THE COMPLETION OF THE WORK CREATING THE DROP-OFF. WORK SHALL CONTINUE IN A TIMELY MANNER UNTIL SUCH TIME AS THE UNPROTECTED DROP-OFF CONDITION IS ELIMINATED. WHERE PAVEMENT EDGE LINES ARE NOT PROVIDED, CHANNELIZING DEVICES SHALL BE PRECEDED BY A NO SHOULDER (W8-23) SIGN, REPEATED AT ALL RAMPS AND ROADWAY INTERSECTIONS. SIGNS SHALL BE REPEATED EVERY ½ MILE AND SUPPLEMENTED WITH A NEXT [X] MILES (W7-3AP) PLAQUE WHERE APPLICABLE.

WHERE PAVEMENT EDGE LINES ARE PROVIDED, CHANNELIZING DEVICES SHALL BE PRECEDED BY SHOULDER DROP-OFF (W8-17) SIGNS, REPEATED AT ALL RAMPS AND ROADWAY INTERSECTIONS. SIGNING SHALL BE REPEATED EVERY ½ MILE AND SUPPLEMENTED WITH NEXT [X] MILES (W7-3AP) PLAQUE WHERE APPLICABLE.

TABLE 619-3 PAVEMENT EDGE DROP-OFF PROTECTION						
DROP-OFF HEIGHT	EDGE LINE PAVEMENT MARKINGS	DRUM SPACING (FT.)	VERTICAL PANEL SPACING (FT.)	TUBULAR MARKER SPACING (FT.)	TALL CONE SPACING (FT.)	SIGNS
DROP-OFF AT OR WITHIN SHOULDER AREA						
WITHIN 4 FT. FROM TRAVEL LANE						
2 - 6 IN.	YES	100	100	N/A	N/A	SHOULDER DROP-OFF
	NO	40	40	N/A	N/A	NO SHOULDER
6 - 24 IN.	YES	40	40	N/A	N/A	SHOULDER DROP-OFF
	NO	20	20	N/A	N/A	NO SHOULDER
MORE THAN 4 FT. FROM TRAVEL LANE						
2 - 6 IN.	YES	200	200	100	100	SHOULDER DROP-OFF
	NO	100	100	40	40	NO SHOULDER
6 - 24 IN.	YES	40	40	N/A	N/A	SHOULDER DROP-OFF
	NO	40	40	N/A	N/A	NO SHOULDER
DROP-OFF OUTSIDE OF SHOULDER AREA						
SHOULDER WIDTH < 4 FT.						
2 - 6 IN.	YES	100	100	N/A	N/A	SHOULDER DROP-OFF
	NO	100	100	N/A	N/A	NO SHOULDER
6 - 24 IN.	YES	40	40	N/A	N/A	SHOULDER DROP-OFF
	NO	40	40	N/A	N/A	NO SHOULDER
SHOULDER WIDTH ≥ 4 FT.						
2 - 6 IN.	YES	200	200	100	100	SHOULDER DROP-OFF
	NO	100	100	40	40	NO SHOULDER
6 - 24 IN.	YES	100	100	40	40	SHOULDER DROP-OFF
	NO	40	40	N/A	N/A	NO SHOULDER



Engineering & Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as MASER CONSULTING

811 PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATIONS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DRAWN BY		DESCRIPTION	
DATE			
REV			

PRELIMINARY

HIGHWAY IMPROVEMENT PLANS

FOR SUMMERVILLE INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER ORANGE COUNTY NEW YORK

WESTCHESTER 400 Columbus Avenue, Suite 180E Valhalla, NY 10595 Phone: 914.347.7500 COLLIERS ENGINEERING & DESIGN, P.C. DOING BUSINESS AS MASER CONSULTING ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN DATE: 8/28/23 DRAWN BY: J.F.M. CHECKED BY: P.J.G.

PROJECT NUMBER: 22010640A DRAWING NAME: GN-01

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-02

2025-08-01 11:04 AM C:\Users\jmcen













## Engineering & Design

[www.colliersengineering.com](http://www.colliersengineering.com)

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.



## PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF  
EXCAVATORS, DESIGNERS, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S  
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: [WWW.CALL811.COM](http://WWW.CALL811.COM)

[illegible]

PRELIMINARY

## HIGHWAY IMPROVEMENT PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

**WESTCHESTER**  
400 Columbus Avenue  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.75

COLLIERS ENGINEERING & DESIGN CT, INC.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	8/28/23	J.F.M.	P.J.G.

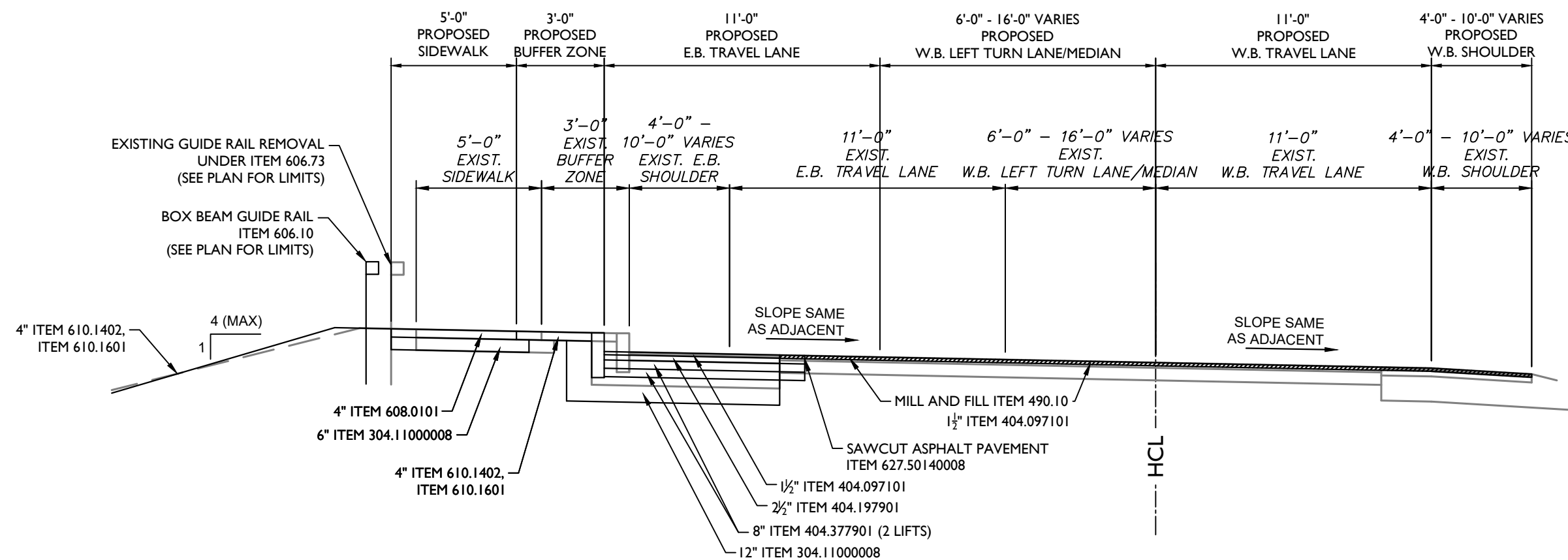
PROJECT NUMBER: 22010640A	DRAWING NAME: TYP-01
------------------------------	-------------------------

SHEET TITLE:

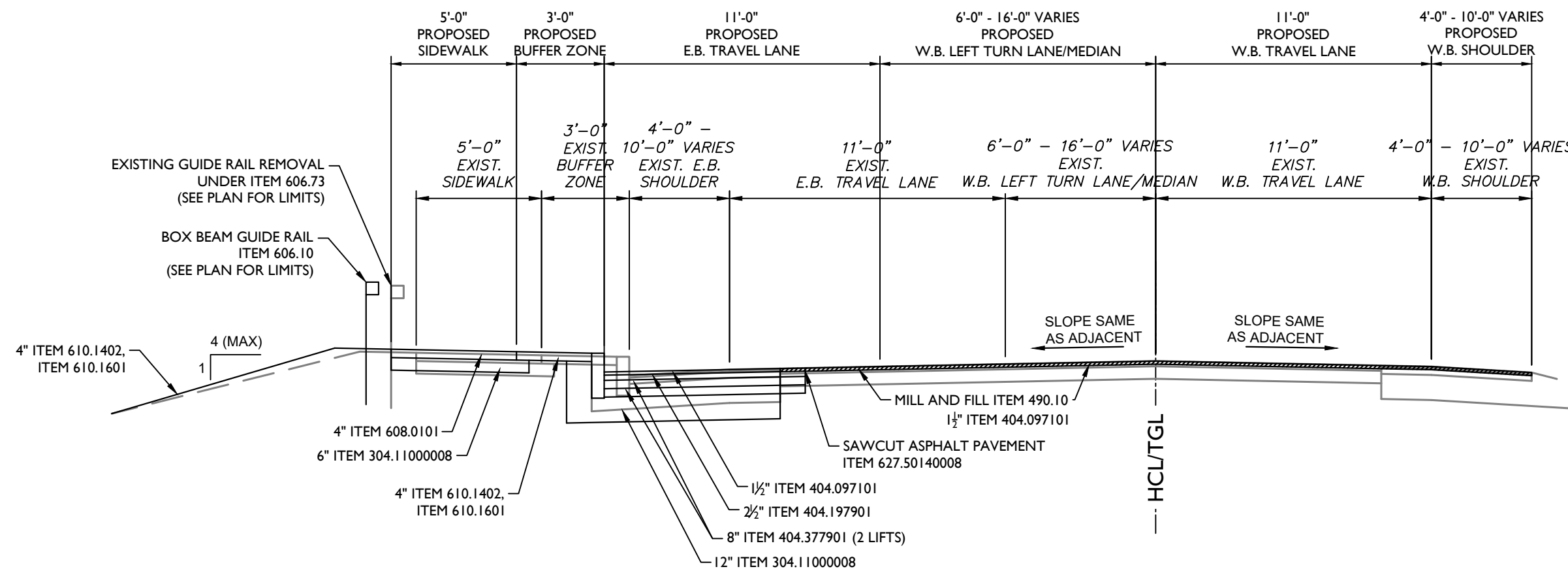
## TYPICAL SECTIONS

SHEET NUMBER: \_\_\_\_\_

TYP-01



NYS ROUTE 94 - SUPERELEVATED W/CURB & MEDIAN  
STA: XX+XX.XX TO STA: XX+XX.XX



NYS ROUTE 94 - TYPICAL CROWN W/CURB & MEDIAN  
STA: XX+XX.XX TO STA: XX+XX.XX

**TYPICAL SECTION NOTES:**

1. STRAIGHT TACK COAT ITEM 407.0103 SHALL BE APPLIED BETWEEN EACH ASPHALT COURSE/LIFT.
2. WHERE CONCRETE PAVEMENT IS LOCATED UNDER ASPHALT OVERLAY AND IS LOCATED WITHIN 3 FT. OF THE PROPOSED WIDENING SECTION, THE WIDENING SHALL EXTEND TO LIMIT OF CONCRETE PAVEMENT.
3. ROLL OVER BETWEEN SHOULDER AND TRAVEL LANE SHALL NOT EXCEED 8%.
4. TRUING AND LEVELING COURSE, ITEM 404.018901 MAY BE REQUIRED TO ACHIEVE UNIFORM CROSS SLOPE. CONTRACTOR SHALL VERIFY IF SUCH NEED IS REQUIRED AND CONFER WITH E.I.C. PRIOR TO COMMENCEMENT OF PAVING OPERATIONS.
5. ASPHALT PAVEMENT JOINT ADHESIVE ITEM 418.7603 SHALL BE USED ON ALL VERTICAL FORCE JOINTS ON THE SURFACE (TOP) COURSE SUCH INCLUDING ALL LONGITUDINAL TRANSVERSE, CURBS OR OTHER JOINTS BUTTING AGAINST THE NEW ASPHALT PAVEMENT. IF BASE OR BINDER COURSE PAVEMENT IS TO BE LEFT OPEN TO TRAFFIC OVER THE WINTER OR LONGER, ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO THOSE VERTICAL JOINTS AS WELL.

NOTE

## SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"X34"



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

## ITEMS

203.02  
203.03  
304.11000008  
402.01890163  
404.097101  
404.197901  
404.377901  
407.0103  
418.7603  
609.0401  
609.0403  
610.1402  
610.1601  
627.50140008

### DESCRIPTION

UNCLASSIFIED EXCAVATION AND DISPOSAL  
EMBANKMENT IN PLACE  
CRUSHED STONE AGGREGATE SUBBASE COURSE  
TRUE & LEVELING F9, SUPERPAVE HMA, 80 SERIES COMPACTION  
9.5 mm F1 TOP COURSE WMA, 70 SERIES COMPACTION  
19 mm F9 BINDER COURSE WMA, 70 SERIES COMPACTION  
37.5 mm F9 BASE COURSE WMA, 70 SERIES COMPACTION  
STRAIGHT TACK COAT  
ASPHALT PAVEMENT JOINT ADHESIVE  
CAST-IN-PLACE CONCRETE CURB TYPE VF6  
CAST-IN-PLACE CONCRETE CURB TYPE M6  
TOPSOIL - ROADSIDE  
TURF ESTABLISHMENT -ROADSIDE  
SAW/CUT ASPHALT PAVEMENT



SCALE : 1" = 5

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

**NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION**

## Colliers

Engineering  
& Design

[www.colliersengineering.com](http://www.colliersengineering.com)

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as



## PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: [WWW.CALL811.COM](http://WWW.CALL811.COM)

[illegible]

PRELIMINARY

## HIGHWAY IMPROVEMENT PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

**WESTCHESTER**  
400 Columbus Avenue  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN CT  
DOING BUSINESS AS MASER CONSULT

ENGINEERING & LAND SURVEYING

SCALE:

AS SH

PROJECT	
---------	--

## CONSTRUCTION AND LAYOUT PLAN

SHEET NUMBER

LP-01



SCALE : 1" = 20'

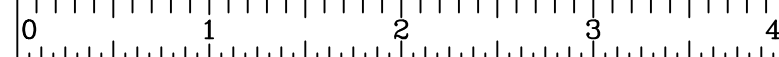
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

**NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION**

\\02Z\22010640A\Transportation\Highway Improvement Plans\LP-01.dwg\LP-01 By: JMUCCHIN

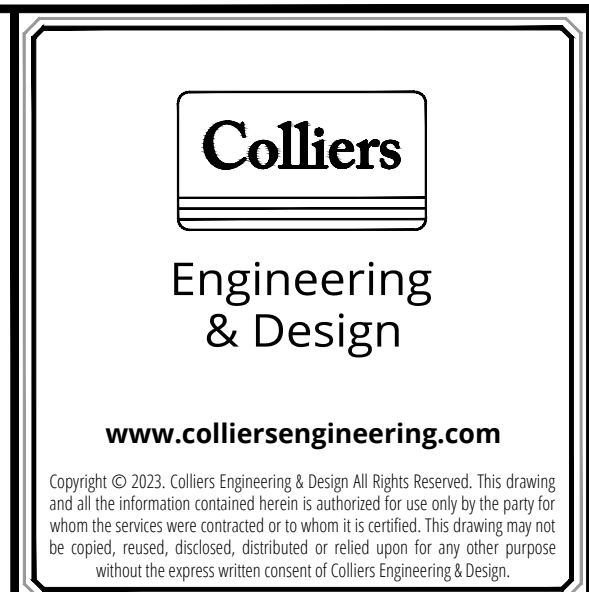
NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"X34"



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



[illegible]

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR

SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK

**Colliers**  
Engineering  
& Design

**WESTCHESTER**  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595  
Phone: 914.347.7500

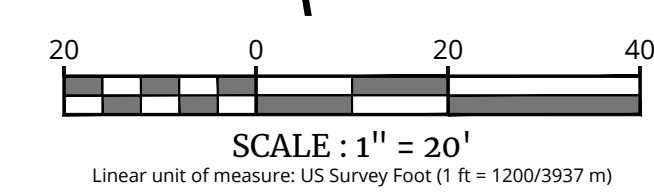
COLLIERS ENGINEERING & DESIGN, P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	8/28/23	J.F.M.	P.J.G.
PROJECT NUMBER: 22010640A		DRAWING NAME: LP-01	

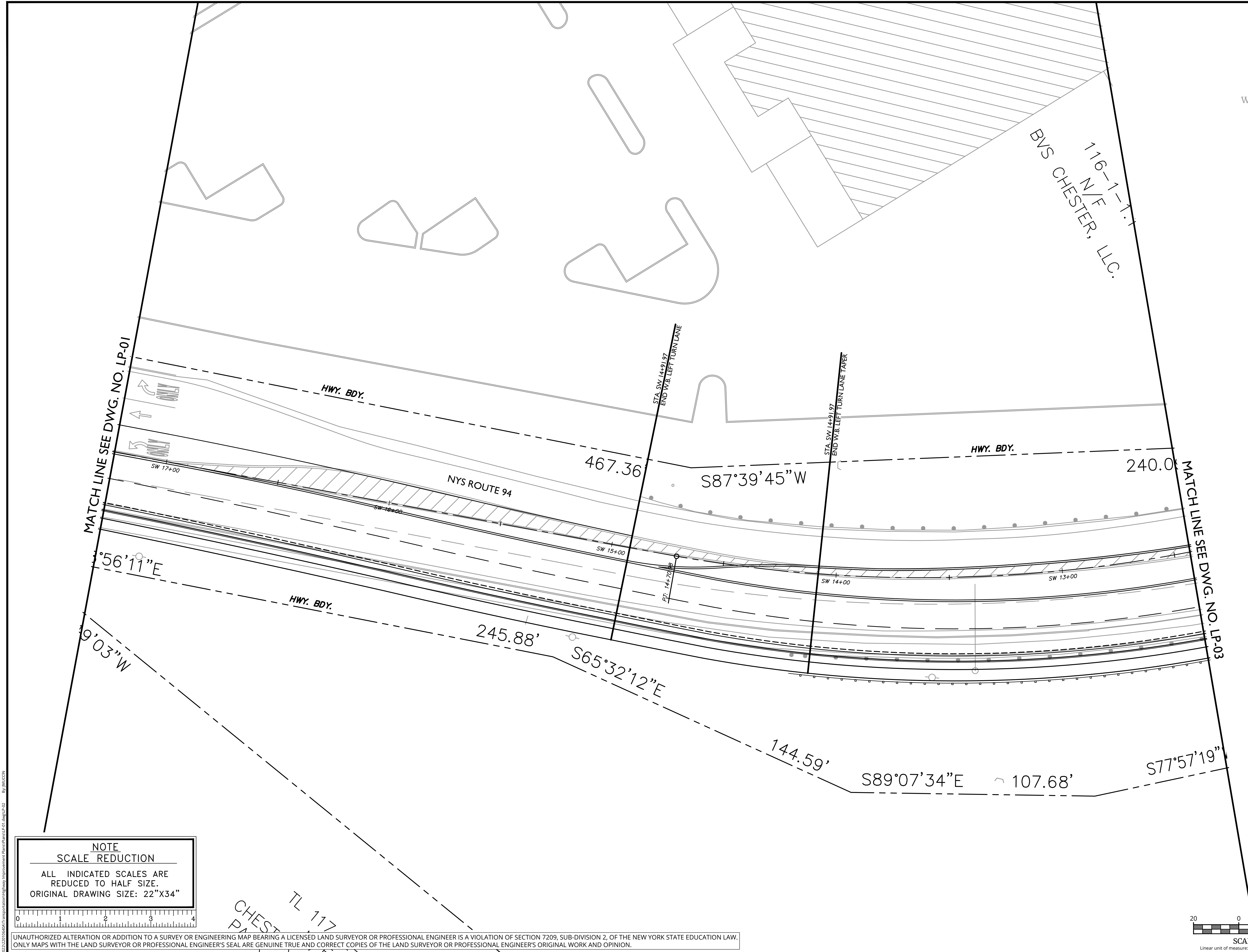
SHEET TITLE:

# CONSTRUCTION AND LAYOUT PLAN

SHEET NUMBER: LP-02



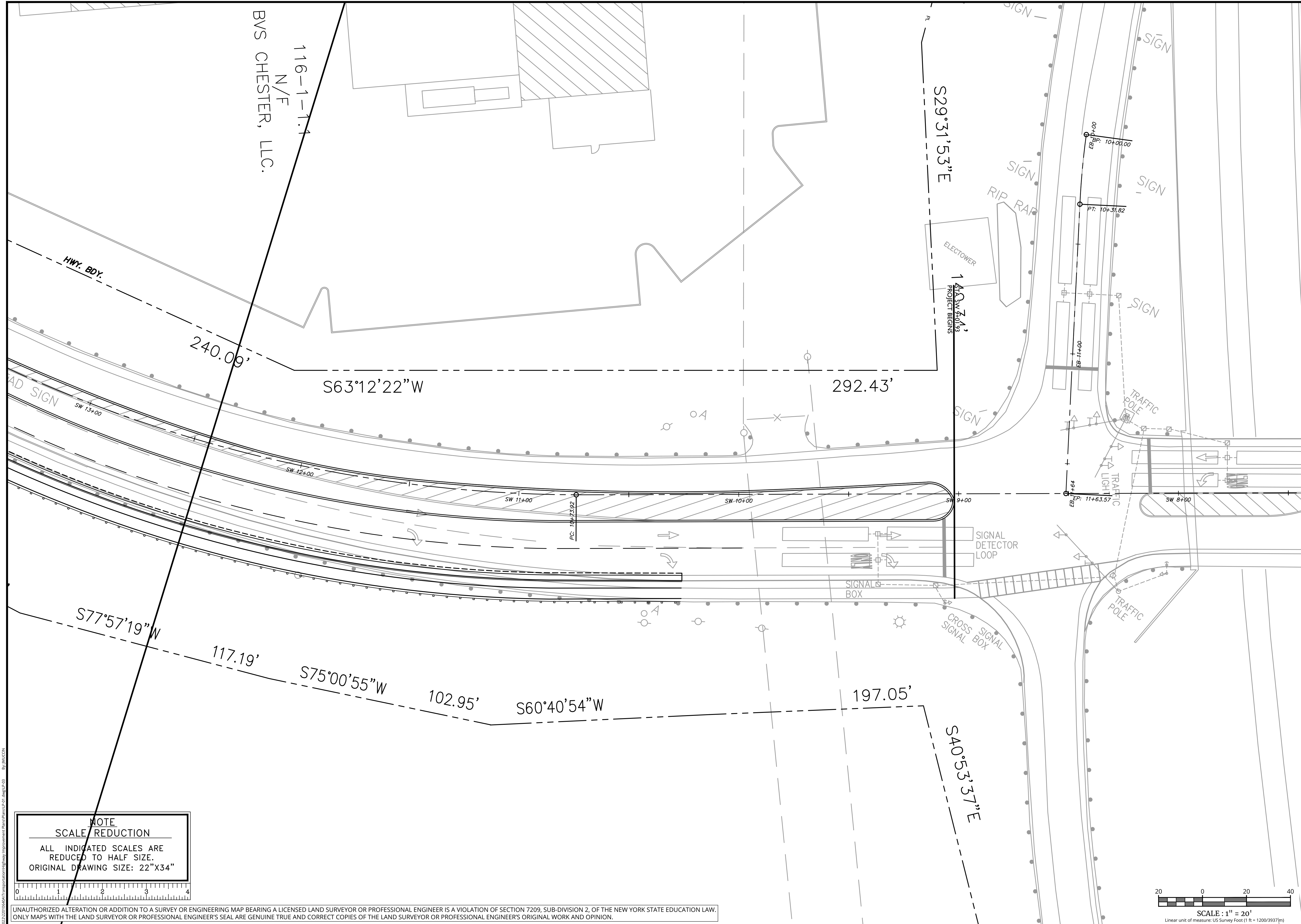
**NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION**



0222\22010640A\Transportation\Highway Improvement Plans\LP-01.dwg\LP-02 By: JMUCCIN

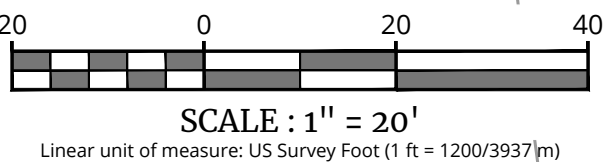
UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.





NOTE  
SCALE REDUCTION  
ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



SCALE : 1" = 20'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

Colliers

Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as



PROTECT YOURSELF  
ALL STATES REQUIRE NOTIFICATION OF  
EXCAVATIONS, DESIGNERS, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S  
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: WWW.CALL811.COM

REVISIONS

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY

DATE

REV

DESCRIPTION

DRAWN BY





## Engineering & Design

[www.colliersengineering.com](http://www.colliersengineering.com)

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.



## PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF  
EXCAVATORS, DESIGNERS, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S  
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: [WWW.CALL811.COM](http://WWW.CALL811.COM)

REV	DATE	DRAWN BY	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

PRELIMINARY

## HIGHWAY IMPROVEMENT PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

**WESTCHESTER**  
100 Columbus Avenue  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.75

LIERS ENGINEERING & DESIGN  
ING BUSINESS AS MASER CON  
ENGINEERING & LAND SURVE

COLLIERS ENGINEERING & DESIGN  
DOING BUSINESS AS MASER CONSULTANTS  
ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	8/28/23	J.F.M.	P.J.G.

PROJECT NUMBER:	DRAWING NAME:
22010640A	LP-01

**SHEET TITLE**

## CONSTRUCTION AND LAYOUT PLAN

SHEET NUMBER

\_P-04

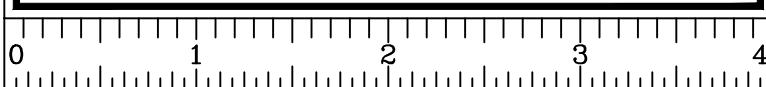
SCALE : 1" = 20

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

**NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION**

NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.





## Engineering & Design

[www.colliersengineering.com](http://www.colliersengineering.com)

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

## Doing Business as



## PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF  
EXCAVATORS, DESIGNERS, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S  
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: [WWW.CALL811.COM](http://WWW.CALL811.COM)

REV	DATE	DRAWN BY	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

WESTCHESTER  
10 Columbus Avenue  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN CT, INC.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
--------	-------	-----------	-------------

AS SHOWN	8/28/23	J.F.M.	P.J.G.
----------	---------	--------	--------

SHEET TITLE

## CONSTRUCTION AND LAYOUT PLAN

SHEET NUMBER

P-05

**NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION**

NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



SCALE : 1" = 20

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)







TRAFFIC SIGNAL NOTES

1. ALL WORK IS TO BE COMPLETED ACCORDING TO THE LATEST "NYSDOT STANDARD SPECIFICATIONS," REGION 8 SIGNAL DETAILS SHEETS AND STANDARD STRUCTURE SHEETS. THE REGION 8 SIGNAL DETAILS SHEETS ARE TO BE A PART OF THE SIGNAL PLAN.

2. SIGNAL HEAD ROADWAY CLEARANCE SHOULD BE 16'-6".

3. ALL MATERIALS INCORPORATED IN THE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT NYSDOT REQUIREMENTS AS PER NOTE 1 ABOVE. CONFORMANCE SHALL BE MET BY THE STATE APPROVAL OF THE FOLLOWING SUBMISSIONS BY THE CONTRACTOR.

a. TRAFFIC SIGNAL POLES AND PEDESTRIAN POLES:

MANUFACTURER'S SHOP DRAWINGS AND CALCULATIONS MUST BE SUBMITTED TO NYSDOT FOR EACH SIGNAL POLE. THE SHOP DRAWINGS AND CALCULATIONS MUST BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK

b. TRAFFIC SIGNAL HEADS (SECTIONS) & BRACKET ASSEMBLIES, PEDESTRIAN HEADS AND BRACKET ASSEMBLIES, CONCRETE PULLBOXES, CAST ALUMINUM JUNCTION BOXES, AND OVERHEAD SIGN ASSEMBLIES:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO THE STATE AS WELL AS MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS"

c. TRAFFIC SIGNAL CONDUIT, CABLE, WIRE:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO NYSDOT.

d. TRAFFIC SIGNAL LOOP EMBEDDING SEALER:

ONLY THOSE PRODUCTS ON THE LATEST NYSDOT MATERIALS BUREAU "APPROVED LIST" SHALL BE USED.

4. THE SIGNAL INSTALLATION CONTRACTOR SHALL CONTACT THE STATE PRIOR TO PERFORMING ANY WORK. A MEETING SHALL TAKE PLACE AS DETERMINED NECESSARY BY NYSDOT OR AT THE REQUEST OF THE CONTRACTOR.

5. NYSDOT SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY VEHICLE DETECTOR LOOPS. FAILURE TO DO SO MAY RESULT IN THE REJECTION OF LOOPS SO INSTALLED.

6. THE PERMITTEE/CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL LOCAL PERMITS REQUIRED.

7. PAVEMENT MARKINGS, IF REQUIRED, SHALL BE IN ACCORDANCE WITH CURRENT NYSDOT PRACTICE FOR THE SIGNAL LOCATION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ELECTRIC SERVICE TO THE SIGNAL.

9. IT IS THE PERMITTEE'S RESPONSIBILITY TO RESTORE ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITION AS PER THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.

10. NYSDOT SHALL PROVIDE A TABLE OF SWITCH PACKS AND TABLE OF INPUT WIRING TO THE PERMITTEE (CONTRACTOR). IT IS THE PERMITTEE'S (CONTRACTOR'S) RESPONSIBILITY TO NOTIFY NYSDOT IN ADVANCE OF WHEN THESE ARE NEEDED.

11. LOOP DETECTORS ARE TO BE WIRED IN PARALLEL IN THE CABINET.

12. ELECTRICAL CABLE SPLICES:

ALL CABLE SPLICES MADE IN CABLE RUNS TO BE LOCATED BELOW GROUND WILL BE ACCOMPLISHED USING METHOD # 2 (TWO COMPONENT ELECTRICAL INSULATING RESIN REJACKETING MATERIAL) AS DESCRIBED IN SECTION 680.3.16 OF THE STANDARDS SPECIFICATIONS.

13. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES NYS SUPPLEMENT AND THE NYSDOT STANDARD SPECIFICATIONS.

14. PULLBOXES:

a. UNLESS OTHERWISE SHOWN ON THE PLANS ALL PULLBOXES SHALL BE INSTALLED OUTSIDE OF THE PAVEMENT OR SHOULDER AREA.
- b. THE FINISHED GROUND SURFACE ON THE BACK SLOPE IN THE VICINITY OF THE PULLBOX SHALL BE ADJUSTED SO THAT NO FILL SHALL BE SPILLED ON THE TOP OF THE BOX AND THE MAXIMUM DISTANCE FROM THE TOP OF THE FINISHED GROUND AT THE BOX SHALL NOT EXCEED 4 INCHES. ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PULLBOX.

15. THE CONTRACTOR SHALL REFERENCE NYSDOT STANDARD SHEETS 680-1, 680-2, 680-4, 680-5, 680-6, 680-8, 680-10, 680-11, 680-13 AND 680-14, 685-01 FOR THIS INSTALLATION.

16. TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED UNTIL THE NEW SIGNAL IS IN OPERATION AND ACCEPTED BY THE STATE UNDER ITEM 619.1613 MAINTAIN TRAFFIC SIGNAL EQUIPMENT.

17. THE CLEARANCES BETWEEN ANY SIGNAL EQUIPMENT AND UTILITY LINES SHALL BE 10' FOR PRIMARY, 5.5' SECONDARY AND 2' FOR ALL OTHERS. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE APPROPRIATE UTILITY COMPANY TO ENSURE PROPER CLEARANCES ARE ACHIEVED.

18. IF SOFT CLAY OR ORGANIC DEPOSITS ARE ENCOUNTERED DURING THE FOOTING AUGERING/DIGGING OPERATION, OR IF AUGERING/DIGGING IS UNDERTAKEN IN AREAS HAVING A HIGH WATER TABLE, THE CONTRACTOR SHALL CONSULT THE ENGINEER-IN-CHARGE.

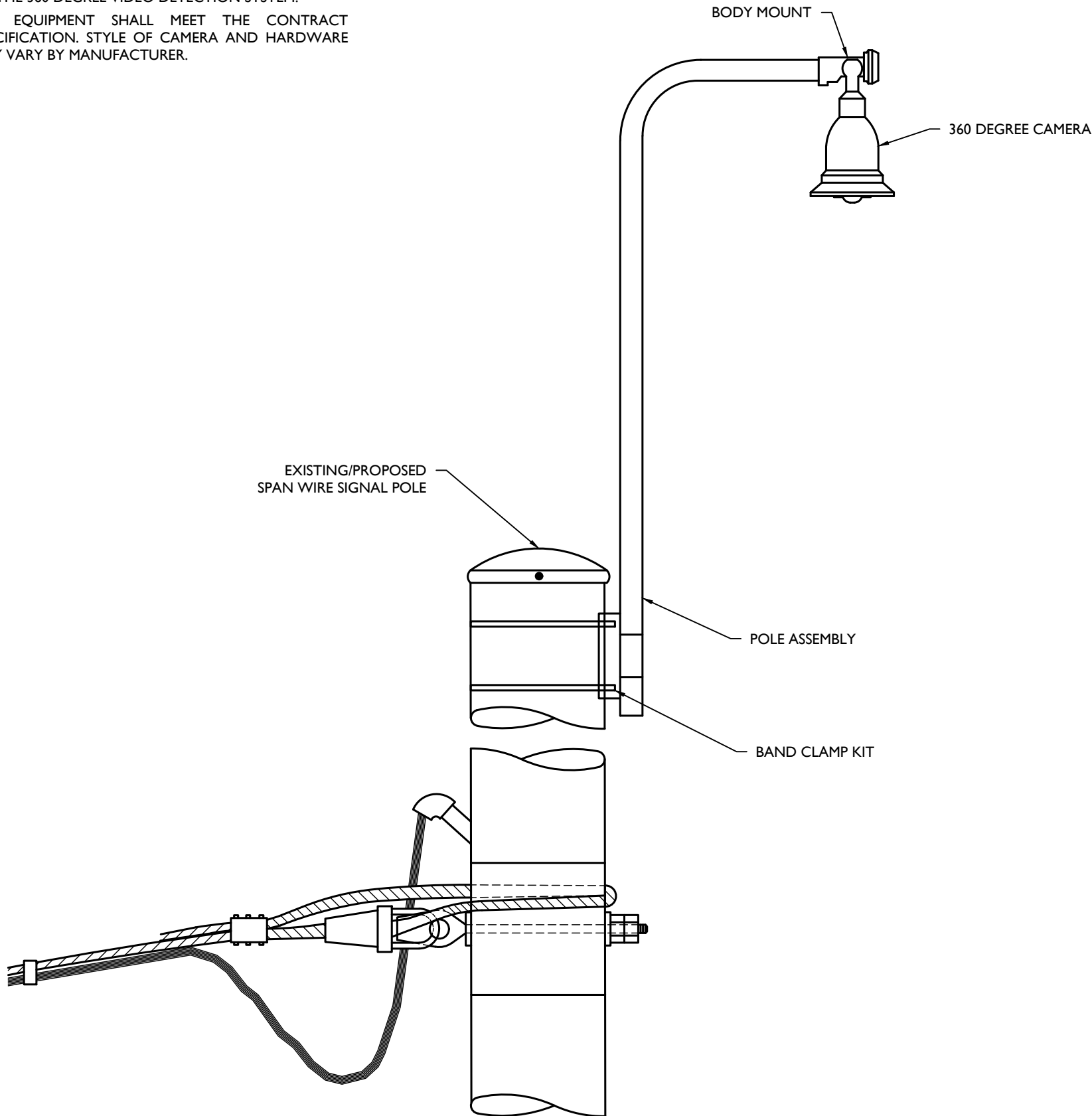
19. CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES (OVERHEAD AND UNDERGROUND) ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION. CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES (OVERHEAD AND/OR UNDERGROUND) NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE/SHE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.

20. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES IN AREA TO RESOLVE ANY CONFLICTS BETWEEN SIGNAL EQUIPMENT AND UTILITY.

21. AT THE CONCLUSION OF INSTALLATION WORK AND UPON ACCEPTANCE BY THE STATE THE CONTRACTOR SHALL FURNISH AN AS-BUILT DRAWING TO NYSDOT ALONG WITH A LIST OF ALL INSTALLED EQUIPMENT.

NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PROVIDED BY THE MANUFACTURER AND BE INCLUDED IN THE PRICE OF THE 360 DEGREE VIDEO DETECTION SYSTEM.
2. ALL EQUIPMENT SHALL MEET THE CONTRACT SPECIFICATION, STYLE OF CAMERA AND HARDWARE MAY VARY BY MANUFACTURER.



1

VIDEO DETECTION CAMERA DETAIL MOUNTED ON A SPAN WIRE POLE

NOT TO SCALE

NYDT-SGNI-1000

08/16/21

TABLE OF INPUTS

SDLC CHANNEL	FUNCTION	DETECTION ZONE NUMBER	SIZE	REMARKS
41	Ø1	41	6' X 40'	PRESENCE
42	Ø2	42	6' X 40'	PRESENCE
43	Ø3	43	6' X 40'	PRESENCE
44	Ø4	44	6' X 40'	PRESENCE
45	Ø5	45	6' X 40'	PRESENCE
46	Ø6	46	6' X 40'	PRESENCE
49	Ø4	49	6' X 6'	NB RIGHT COUNT
50	Ø4	50	6' X 6'	NB LEFT/THROUGH COUNT
51	Ø2	51	6' X 6'	EB RIGHT COUNT
52	Ø2	52	6' X 6'	EB THROUGH COUNT
53	Ø5	53	6' X 6'	EB LEFT COUNT
54	Ø3	54	6' X 6'	SB RIGHT COUNT
55	Ø3	55	6' X 6'	SB LEFT/THROUGH COUNT
56	Ø6	56	6' X 6'	WB RIGHT COUNT
57	Ø6	57	6' X 6'	WB THROUGH COUNT
58	Ø1	58	6' X 6'	WB LEFT COUNT

DETECTION ZONE RANGE

	CAMERA MOUNTING HEIGHT (FT)	MAXIMUM DISTANCE FROM CAMERA (FT)
MAST ARM	28	182
	30	195
	32	208
SPAN WIRE	40	260
	42	273
	44	286
	46	299
	48	312

NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"X34"



Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, modified, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER CONSULTING**



PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: WWW.CALL811.COM

DESCRIPTION

DRAWN BY

DATE

REV

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

WESTCHESTER  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN, C.T. P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN: DATE: 8/28/23 DRAWN BY: J.F.M. CHECKED BY: P.J.G.

PROJECT NUMBER: 22010640A DRAWING NAME: TS-01

SHEET TITLE: TRAFFIC SIGNAL PLAN  
NYS ROUTE 94 & NUCIFORA  
BOULEVARD/LOWE'S ACCESS  
(SIGNAL O-253PS)

SHEET NUMBER: TS-02











TRAFFIC SIGNAL NOTES

1. ALL WORK IS TO BE COMPLETED ACCORDING TO THE LATEST "NYSDOT STANDARD SPECIFICATIONS," REGION 8 SIGNAL DETAILS SHEETS AND STANDARD STRUCTURE SHEETS. THE REGION 8 SIGNAL DETAILS SHEETS ARE TO BE A PART OF THE SIGNAL PLAN.

2. SIGNAL HEAD ROADWAY CLEARANCE SHOULD BE 16'-6".

3. ALL MATERIALS INCORPORATED IN THE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT NYSDOT REQUIREMENTS AS PER NOTE 1 ABOVE. CONFORMANCE SHALL BE MET BY THE STATE APPROVAL OF THE FOLLOWING SUBMISSIONS BY THE CONTRACTOR.

a. TRAFFIC SIGNAL POLES AND PEDESTRIAN POLES:

MANUFACTURER'S SHOP DRAWINGS AND CALCULATIONS MUST BE SUBMITTED TO NYSDOT FOR EACH SIGNAL POLE. THE SHOP DRAWINGS AND CALCULATIONS MUST BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK

b. TRAFFIC SIGNAL HEADS (SECTIONS) & BRACKET ASSEMBLIES, PEDESTRIAN HEADS AND BRACKET ASSEMBLIES, CONCRETE PULLBOXES, CAST ALUMINUM JUNCTION BOXES, AND OVERHEAD SIGN ASSEMBLIES:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO THE STATE AS WELL AS MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS"

c. TRAFFIC SIGNAL CONDUIT, CABLE, WIRE:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO NYSDOT.

d. TRAFFIC SIGNAL LOOP EMBEDDING SEALER:

ONLY THOSE PRODUCTS ON THE LATEST NYSDOT MATERIALS BUREAU "APPROVED LIST" SHALL BE USED.

4. THE SIGNAL INSTALLATION CONTRACTOR SHALL CONTACT THE STATE PRIOR TO PERFORMING ANY WORK. A MEETING SHALL TAKE PLACE AS DETERMINED NECESSARY BY NYSDOT OR AT THE REQUEST OF THE CONTRACTOR.

5. NYSDOT SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY VEHICLE DETECTOR LOOPS. FAILURE TO DO SO MAY RESULT IN THE REJECTION OF LOOPS SO INSTALLED.

6. THE PERMITTEE/CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL LOCAL PERMITS REQUIRED.

7. PAVEMENT MARKINGS, IF REQUIRED, SHALL BE IN ACCORDANCE WITH CURRENT NYSDOT PRACTICE FOR THE SIGNAL LOCATION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ELECTRIC SERVICE TO THE SIGNAL.

9. IT IS THE PERMITTEE'S RESPONSIBILITY TO RESTORE ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITION AS PER THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.

10. NYSDOT SHALL PROVIDE A TABLE OF SWITCH PACKS AND TABLE OF INPUT WIRING TO THE PERMITTEE (CONTRACTOR). IT IS THE PERMITTEE'S (CONTRACTOR'S) RESPONSIBILITY TO NOTIFY NYSDOT IN ADVANCE OF WHEN THESE ARE NEEDED.

11. LOOP DETECTORS ARE TO BE WIRED IN PARALLEL IN THE CABINET.

12. ELECTRICAL CABLE SPLICES:

ALL CABLE SPLICES MADE IN CABLE RUNS TO BE LOCATED BELOW GROUND WILL BE ACCOMPLISHED USING METHOD # 2 (TWO COMPONENT ELECTRICAL INSULATING RESIN REJACKETING MATERIAL) AS DESCRIBED IN SECTION 680.3.16 OF THE STANDARDS SPECIFICATIONS.

13. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES NYS SUPPLEMENT AND THE NYSDOT STANDARD SPECIFICATIONS.

14. PULLBOXES:

a. UNLESS OTHERWISE SHOWN ON THE PLANS ALL PULLBOXES SHALL BE INSTALLED OUTSIDE OF THE PAVEMENT OR SHOULDER AREA.
- b. THE FINISHED GROUND SURFACE ON THE BACK SLOPE IN THE VICINITY OF THE PULLBOX SHALL BE ADJUSTED SO THAT NO FILL SHALL BE SPILLED ON THE TOP OF THE BOX AND THE MAXIMUM DISTANCE FROM THE TOP OF THE FINISHED GROUND AT THE BOX SHALL NOT EXCEED 4 INCHES. ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PULLBOX.

15. THE CONTRACTOR SHALL REFERENCE NYSDOT STANDARD SHEETS 680-1, 680-2, 680-4, 680-5, 680-6, 680-8, 680-10, 680-11, 680-13 AND 680-14, 685-01 FOR THIS INSTALLATION.

16. TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED UNTIL THE NEW SIGNAL IS IN OPERATION AND ACCEPTED BY THE STATE UNDER ITEM 619.1613 MAINTAIN TRAFFIC SIGNAL EQUIPMENT.

17. THE CLEARANCES BETWEEN ANY SIGNAL EQUIPMENT AND UTILITY LINES SHALL BE 10' FOR PRIMARY, 5.5' SECONDARY AND 2' FOR ALL OTHERS. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE APPROPRIATE UTILITY COMPANY TO ENSURE PROPER CLEARANCES ARE ACHIEVED.

18. IF SOFT CLAY OR ORGANIC DEPOSITS ARE ENCOUNTERED DURING THE FOOTING AUGERING/DIGGING OPERATION, OR IF AUGERING/DIGGING IS UNDERTAKEN IN AREAS HAVING A HIGH WATER TABLE, THE CONTRACTOR SHALL CONSULT THE ENGINEER-IN-CHARGE.

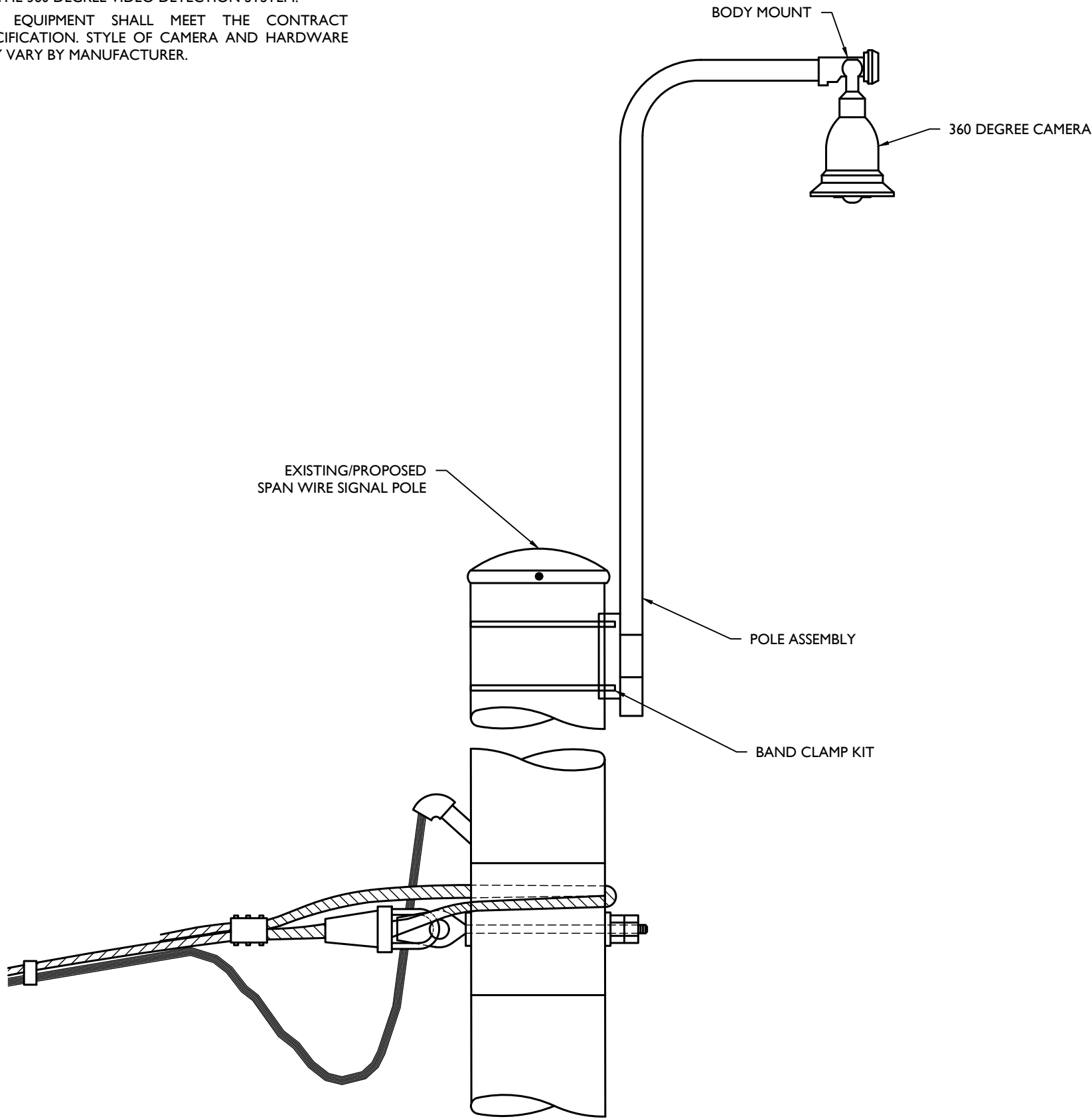
19. CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES (OVERHEAD AND UNDERGROUND) ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION. CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES (OVERHEAD AND/OR UNDERGROUND) NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE/SHE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.

20. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES IN AREA TO RESOLVE ANY CONFLICTS BETWEEN SIGNAL EQUIPMENT AND UTILITY.

21. AT THE CONCLUSION OF INSTALLATION WORK AND UPON ACCEPTANCE BY THE STATE THE CONTRACTOR SHALL FURNISH AN AS-BUILT DRAWING TO NYSDOT ALONG WITH A LIST OF ALL INSTALLED EQUIPMENT.

NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PROVIDED BY THE MANUFACTURER AND BE INCLUDED IN THE PRICE OF THE 360 DEGREE VIDEO DETECTION SYSTEM.
2. ALL EQUIPMENT SHALL MEET THE CONTRACT SPECIFICATION. STYLE OF CAMERA AND HARDWARE MAY VARY BY MANUFACTURER.



1

VIDEO DETECTION CAMERA DETAIL MOUNTED ON A SPAN WIRE POLE

NOT TO SCALE

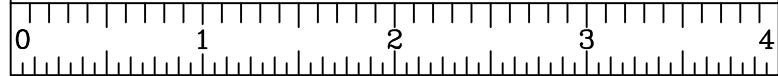
NYDT-SGNI-1000

08/16/21

DETECTION ZONE RANGE		
	CAMERA MOUNTING HEIGHT (FT)	MAXIMUM DISTANCE FROM CAMERA (FT)
MAST ARM	28	182
	30	195
	32	208
SPAN WIRE	40	260
	42	273
	44	286
	46	299
	48	312

NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"



22010640A Highway Improvement Plans TS-04.dwg 12-05 By: JML/CEN

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER CONSULTING**



PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE



FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DESCRIPTION

DRAWN BY

DATE

REV

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

WESTCHESTER  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN, C.T. P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN DATE: 8/28/23 DRAWN BY: J.F.M. CHECKED BY: P.J.G.

PROJECT NUMBER: 22010640A DRAWING NAME: TS-04

SHEET TITLE: TRAFFIC SIGNAL PLAN  
NYS ROUTE 94 & NYS ROUTE  
17 EB ON/OFF RAMP  
(SIGNAL O-232)

SHEET NUMBER: TS-05

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



TABLE OF SIGNAL POLES										
POLE NO.	LOCATION			ELEV. OF FOOTING CAP	ITEM	MOUNTING HEIGHT	DESIGN LOAD (LBS)	FOOTING MOMENT (FT-KIP)	FOUNDATION	
	CENTERLINE STATION	OFFSET	SIDE						CODE	CY
S-1	SW 8+27.43	44.6'	LT	522.5'±	EXIST.	20'	EXIST.	EXIST.	EXIST.	EXIST.
S-2	SW 8+23.94	33.9'	RT	523.8'±	EXIST.	20'	EXIST.	EXIST.	EXIST.	EXIST.
P-1	SW 9+06.38	49.8'	LT	525.0'±	EXIST.	8'	EXIST.	EXIST.	EXIST.	EXIST.
P-2	SW 8+05.43	36.5'	LT	523.0'±	EXIST.	8'	EXIST.	EXIST.	EXIST.	EXIST.
									TOTAL (CY)	0.0

ESTIMATE OF CONDUITS				
CONDUIT NO.	LOCATION		ITEM 670.94110010	ITEM 680.53010010
	FROM	TO	REMOVE WIRING, CONDUIT & JUNCTION BOXES	CLEAN EXISTING CONDUIT
C1	LOOP DETECTORS	PB-1	X	-
C2	PB-1	PB-2	X	-
C3	P-1	PB-2	-	10
C4	PB-2	PB-3	-	81
C5	S-1	PB-3	-	8
C6	P-2	S-1	-	24
C7	PUSH BUTTON	P-2	-	4
C8	PB-3	PB-6	-	69
C9	PB-4	PB-5	X	-
C10	PB-5	PB-6	X	-
C11	PB-6	S-2	-	10
C12	PB-7	S-2	X	-
C13	LOOP DETECTORS	PB-7	X	-
TOTAL (FEET)			-	206

TABLE OF SIGNAL HEADS AND CABLES									
HEAD	BRACKET	FACE	MODULES						SECTION
			680.810101 RED BALL - 12 IN.	680.810103 RED ARROW - 12 IN.	680.810103 YELLOW BALL - 12 IN.	680.810104 YELLOW ARROW - 12 IN.	680.810105 GREEN BALL - 12 IN.	680.810106 GREE ARROW - 12 IN.	
A	EXIST.	5	EX.	-	EX.	-	EX.	-	EX.
B	EXIST.	6	EX.	-	EX.	-	EX.	-	EX.
C	EXIST.	4	EX.	-	EX.	-	EX.	-	EX.
D	EXIST.	3	EX.	-	EX.	-	EX.	EX.	EX.
E	EXIST.	2	EX.	-	EX.	-	EX.	-	EX.
F	EXIST.	1	EX.	-	EX.	-	EX.	-	EX.
TOTAL (EACH)			0	0	0	0	0	0	0

ESTIMATE OF CABLES						
ROUTE			CABLE DESCRIPTION	# OF CABLES	680.730514	680.731014
FROM	THROUGH	TO			5 C, 14 AWG	10 C, 14 AWG
CONTROLLER	S-2	SIGNAL HEAD A	14-05C-A-X/X	1	EX.	-
CONTROLLER	S-2	SIGNAL HEAD B	14-05C-B-X/X	1	EX.	-
CONTROLLER	S-2	SIGNAL HEAD C	14-05C-C-X/X	1	EX.	-
CONTROLLER	S-2	SIGNAL HEAD D	14-10C-D-X/X	1	-	EX.
CONTROLLER	S-1, C-5, PB-3, C-8, PB-6, C-11, S-2	SIGNAL HEAD E	14-05C-E-X/X	1	EX.	-
CONTROLLER	S-1, C-5, PB-3, C-8, PB-6, C-11, S-2	SIGNAL HEAD F	14-05C-F-X/X	1	EX.	-
CONTROLLER	P-1, C-3, PB-2, C-4, PB-3, C-8, PB-6, C-11, S-2	PED P-1	14-05C	1	EX.	-
CONTROLLER	P-2, C-6, S-1, C-5, PB-3, C-8, PB-6, C-11, S-2	PED P-2	14-05C	1	EX.	-
				TOTAL	0	0

TABLE OF PULLBOXES					
PULLBOX NO.	LOCATION			ELEV. OF TOP	680.51100010
	CENTERLINE STATION	OFFSET	SIDE		CLEAN PULLBOX
PB-1	SW 9+36.71	41.1'	LT	525.5±	1
PB-2	SW 9+10.53	41.6'	LT	525.0±	1
PB-3	SW 8+29.86	37.3'	LT	523.5±	1
PB-4	SW 7+77.66	22.8'	RT	524.0±	1
PB-5	SW 8+04.22	29.1'	RT	523.0±	1
PB-6	SW 8+15.66	29.5'	RT	523.5±	1
PB-7	SW 10+72.47	19.7'	LT	521.0±	1
				TOTAL	7

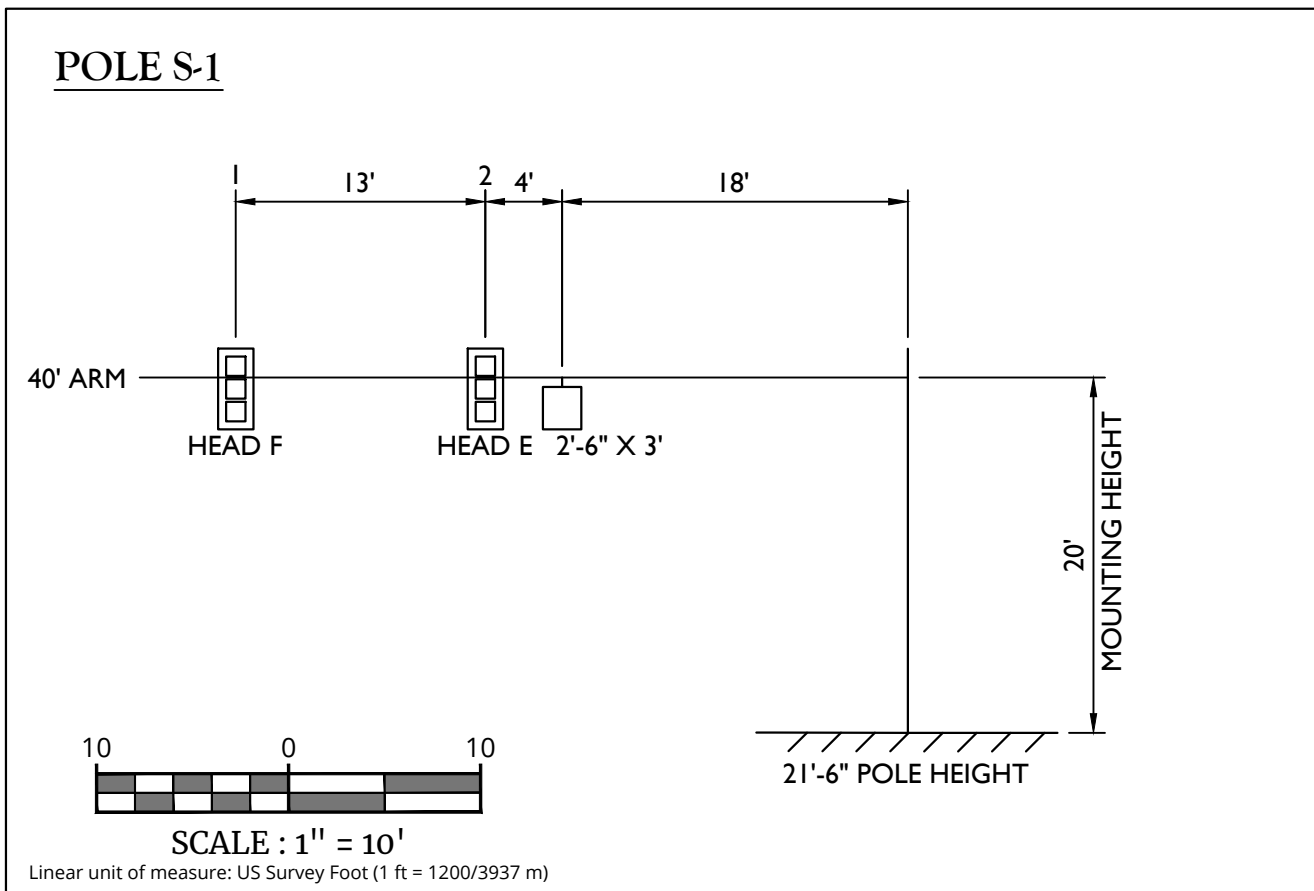
TABLE OF OPERATION									
		FACE	1	2	3	4	5	6	PED A
PHASE									
ø1			R	R	R	G	R	R	DW
ø3			R	R	←←	R	R	R	DW
ø5			G	G	R	R	R	R	DW <sup>1</sup>
ø1+ø5			G	G	R	G	R	R	DW
ø4			R	R	R	R	G	G	DW
FLASH OPERATION			FY	FY	FY	FY	FR	FR	DARK

**NOTE:**  
THIS INDICATION SHALL BE A WALKING PERSON SYMBOL FOLLOWED BY A FLASHING UPRaised HAND AND A STEADY UPRaised HAND WHEN AN ASSOCIATED PEDESTRIAN BUTTON IS ACTUATED.

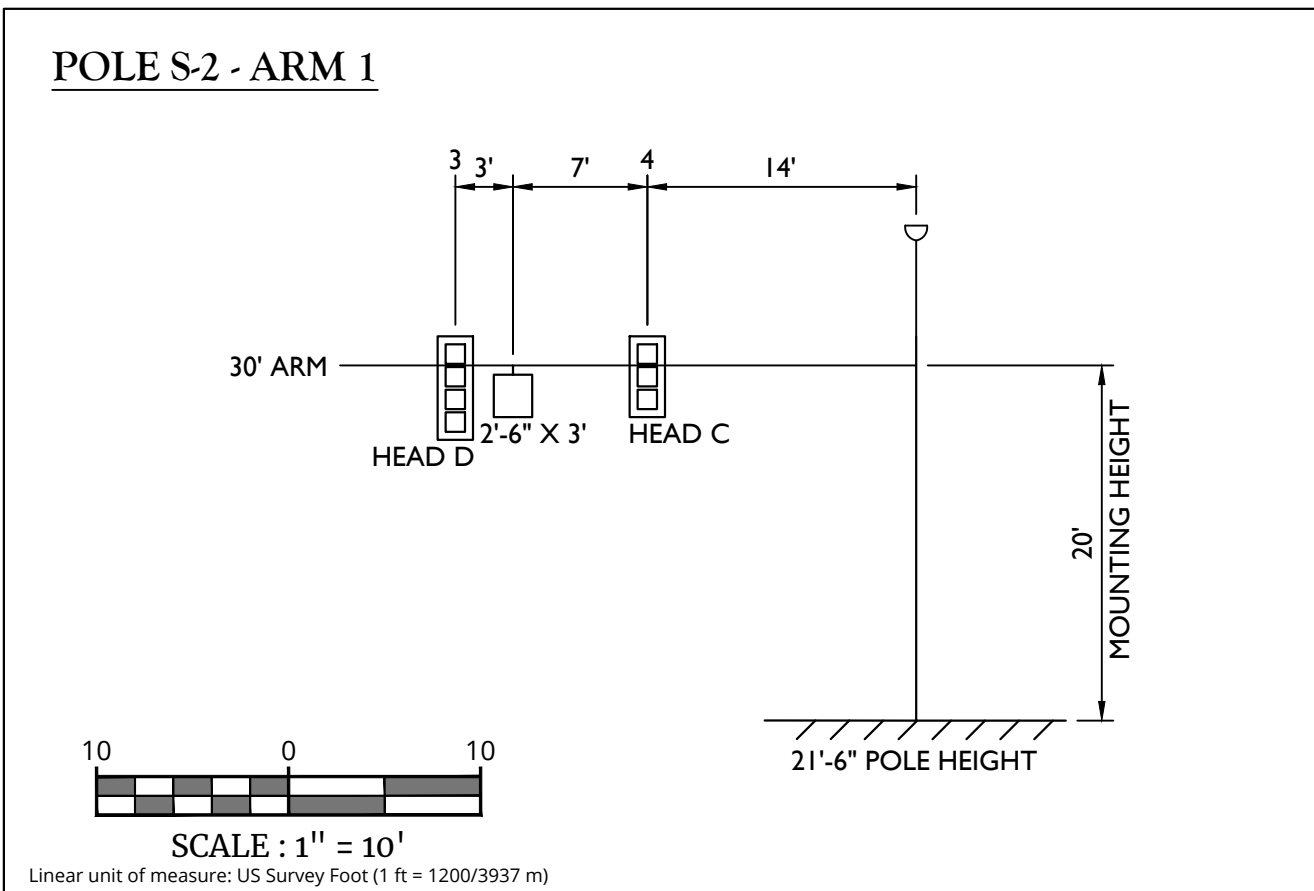
ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIPMENT (REQUIREMENT B)	INTM	1
670.94110010	REMOVE WIRING, CONDUIT, & JUNCTION BOXES	LS	1
680.05010007	360 DIGITAL CAMERA VIDEO DETECTION SYSTEM	EA	1
680.51100010	CLEAN EXISTING PULLBOX	EA	7
680.53010010	CLEAN EXISTING CONDUIT	LF	206
680.94000008	TRAFFIC SIGNAL SERVICE ENTRANCE	EA	1

TABLE OF INPUTS				
SDLC CHANNEL	FUNCTION	DETECTION ZONE NUMBER	SIZE	REMARKS
41	Ø1 & Ø3	41	6' X 40'	PRESENCE
43	Ø3	43	6' X 40'	PRESENCE
44	Ø4	44	6' X 40'	PRESENCE
44	Ø4	44	6' X 40'	PRESENCE
45	Ø5	45	6' X 40'	PRESENCE
45	Ø5	45	6' X 40'	PRESENCE
49	Ø1 & Ø3	49	6' X 6'	WB THROUGH COUNT
50	Ø3	50	6' X 6'	WB LEFT COUNT
51	Ø5	51	6' X 6'	EB RIGHT COUNT
52	Ø5	52	6' X 6'	EB THROUGH COUNT
53	Ø4	53	6' X 6'	SB THROUGH/RIGHT COUNT
54	Ø4	54	6' X 6'	SB LEFT COUNT

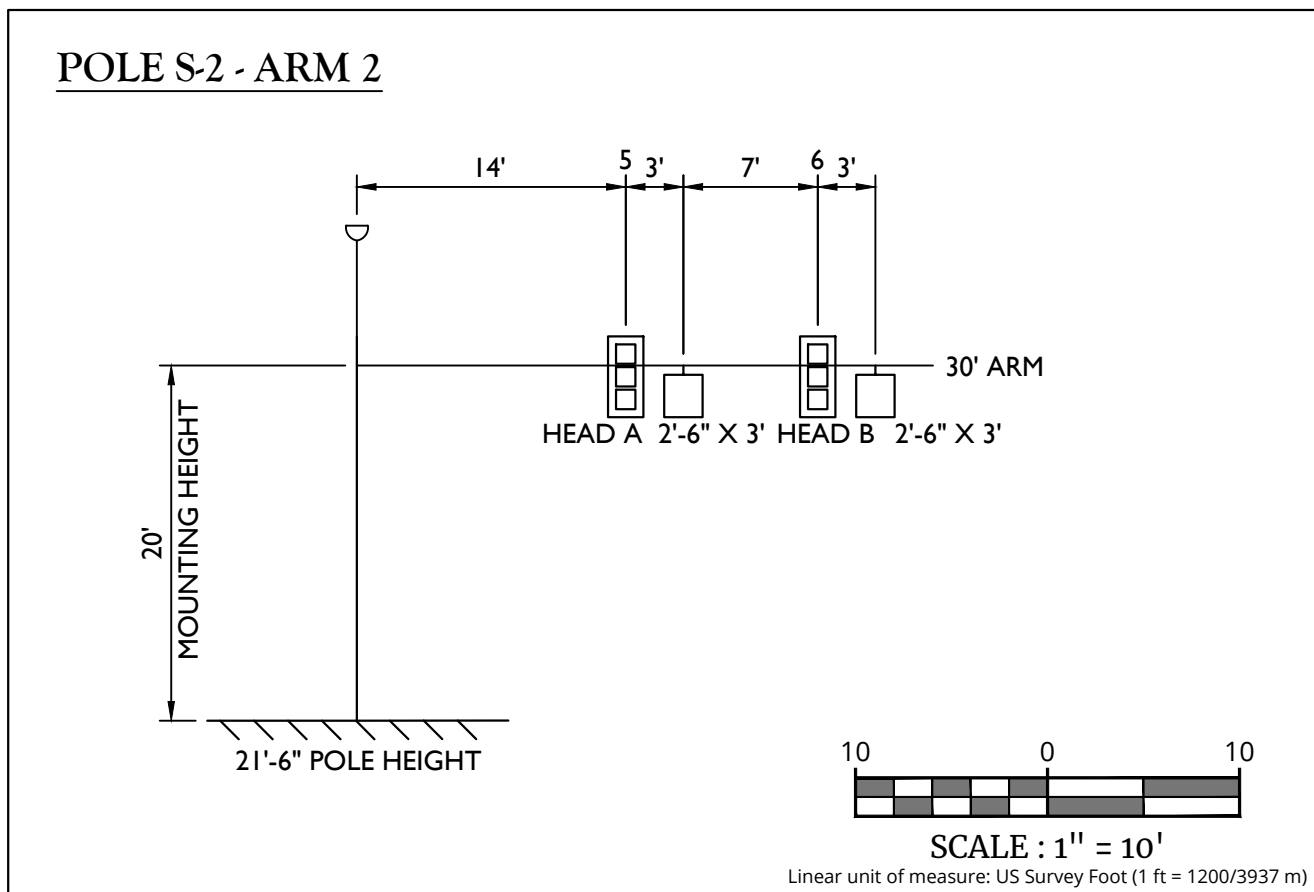
NOTE  
SCALE REDUCTION  
ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"



MAST ARM LOAD TABLE POLE S-1					
LOAD NO.	TYPE	NO. OF 12" SIGNAL SECTIONS	DEAD LOAD (LB)	PROJECTED WIND AREA (SF)	PROJECTED ICE AREA (SF)
1	SIGN	-	22.5	22.5	165.48
2	SIGNAL HEAD E	3	42.5	36.0	111.2
3	SIGNAL HEAD F	3	42.5	36.0	111.2



MAST ARM LOAD TABLE POLE S-2 (ARM 1)					
LOAD NO.	TYPE	NO. OF 12" SIGNAL SECTIONS	DEAD LOAD (LB)	PROJECTED WIND AREA (SF)	PROJECTED ICE AREA (SF)
1	SIGNAL HEAD C	3	42.5	36.0	111.2
2	SIGN	-	22.5	22.5	165.48
3	SIGNAL HEAD D	4	53.5	48.0	155.77



MAST ARM LOAD TABLE POLE S-2 (ARM 2)					
LOAD NO.	TYPE	NO. OF 12" SIGNAL SECTIONS	DEAD LOAD (LB)	PROJECTED WIND AREA (SF)	PROJECTED ICE AREA (SF)
1	SIGNAL HEAD A	3	42.5	36.0	111.2
2	SIGN	-	22.5	22.5	165.48
3	SIGNAL HEAD B	3	42.5	36.0	111.2
4	SIGN	-	22.5	22.5	165.48







TRAFFIC SIGNAL NOTES

1. ALL WORK IS TO BE COMPLETED ACCORDING TO THE LATEST "NYSDOT STANDARD SPECIFICATIONS," REGION 8 SIGNAL DETAILS SHEETS AND STANDARD STRUCTURE SHEETS. THE REGION 8 SIGNAL DETAILS SHEETS ARE TO BE A PART OF THE SIGNAL PLAN.

2. SIGNAL HEAD ROADWAY CLEARANCE SHOULD BE 16'-6".

3. ALL MATERIALS INCORPORATED IN THE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT NYSDOT REQUIREMENTS AS PER NOTE 1 ABOVE. CONFORMANCE SHALL BE MET BY THE STATE APPROVAL OF THE FOLLOWING SUBMISSIONS BY THE CONTRACTOR.

a. TRAFFIC SIGNAL POLES AND PEDESTRIAN POLES:

MANUFACTURER'S SHOP DRAWINGS AND CALCULATIONS MUST BE SUBMITTED TO NYSDOT FOR EACH SIGNAL POLE. THE SHOP DRAWINGS AND CALCULATIONS MUST BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK

b. TRAFFIC SIGNAL HEADS (SECTIONS) & BRACKET ASSEMBLIES, PEDESTRIAN HEADS AND BRACKET ASSEMBLIES, CONCRETE PULLBOXES, CAST ALUMINUM JUNCTION BOXES, AND OVERHEAD SIGN ASSEMBLIES:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO THE STATE AS WELL AS MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS"

c. TRAFFIC SIGNAL CONDUIT, CABLE, WIRE:

MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO NYSDOT.

d. TRAFFIC SIGNAL LOOP EMBEDDING SEALER:

ONLY THOSE PRODUCTS ON THE LATEST NYSDOT MATERIALS BUREAU "APPROVED LIST" SHALL BE USED.

4. THE SIGNAL INSTALLATION CONTRACTOR SHALL CONTACT THE STATE PRIOR TO PERFORMING ANY WORK. A MEETING SHALL TAKE PLACE AS DETERMINED NECESSARY BY NYSDOT OR AT THE REQUEST OF THE CONTRACTOR.

5. NYSDOT SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY VEHICLE DETECTOR LOOPS. FAILURE TO DO SO MAY RESULT IN THE REJECTION OF LOOPS SO INSTALLED.

6. THE PERMITTEE/CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL LOCAL PERMITS REQUIRED.

7. PAVEMENT MARKINGS, IF REQUIRED, SHALL BE IN ACCORDANCE WITH CURRENT NYSDOT PRACTICE FOR THE SIGNAL LOCATION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ELECTRIC SERVICE TO THE SIGNAL.

9. IT IS THE PERMITTEE'S RESPONSIBILITY TO RESTORE ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITION AS PER THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.

10. NYSDOT SHALL PROVIDE A TABLE OF SWITCH PACKS AND TABLE OF INPUT WIRING TO THE PERMITTEE (CONTRACTOR). IT IS THE PERMITTEE'S (CONTRACTOR'S) RESPONSIBILITY TO NOTIFY NYSDOT IN ADVANCE OF WHEN THESE ARE NEEDED.

11. LOOP DETECTORS ARE TO BE WIRED IN PARALLEL IN THE CABINET.

12. ELECTRICAL CABLE SPLICES:

ALL CABLE SPLICES MADE IN CABLE RUNS TO BE LOCATED BELOW GROUND WILL BE ACCOMPLISHED USING METHOD # 2 (TWO COMPONENT ELECTRICAL INSULATING RESIN REJACKETING MATERIAL) AS DESCRIBED IN SECTION 680.3.16 OF THE STANDARDS SPECIFICATIONS.

13. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES NYS SUPPLEMENT AND THE NYSDOT STANDARD SPECIFICATIONS.

14. PULLBOXES:

a. UNLESS OTHERWISE SHOWN ON THE PLANS ALL PULLBOXES SHALL BE INSTALLED OUTSIDE OF THE PAVEMENT OR SHOULDER AREA.
- b. THE FINISHED GROUND SURFACE ON THE BACK SLOPE IN THE VICINITY OF THE PULLBOX SHALL BE ADJUSTED SO THAT NO FILL SHALL BE SPILLED ON THE TOP OF THE BOX AND THE MAXIMUM DISTANCE FROM THE TOP OF THE FINISHED GROUND AT THE BOX SHALL NOT EXCEED 4 INCHES. ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PULLBOX.

15. THE CONTRACTOR SHALL REFERENCE NYSDOT STANDARD SHEETS 680-1, 680-2, 680-4, 680-5, 680-6, 680-8, 680-10, 680-11, 680-13 AND 680-14, 685-01 FOR THIS INSTALLATION.

16. TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED UNTIL THE NEW SIGNAL IS IN OPERATION AND ACCEPTED BY THE STATE UNDER ITEM 619.1613 MAINTAIN TRAFFIC SIGNAL EQUIPMENT.

17. THE CLEARANCES BETWEEN ANY SIGNAL EQUIPMENT AND UTILITY LINES SHALL BE 10' FOR PRIMARY, 5.5' SECONDARY AND 2' FOR ALL OTHERS. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE APPROPRIATE UTILITY COMPANY TO ENSURE PROPER CLEARANCES ARE ACHIEVED.

18. IF SOFT CLAY OR ORGANIC DEPOSITS ARE ENCOUNTERED DURING THE FOOTING AUGERING/DIGGING OPERATION, OR IF AUGERING/DIGGING IS UNDERTAKEN IN AREAS HAVING A HIGH WATER TABLE, THE CONTRACTOR SHALL CONSULT THE ENGINEER-IN-CHARGE.

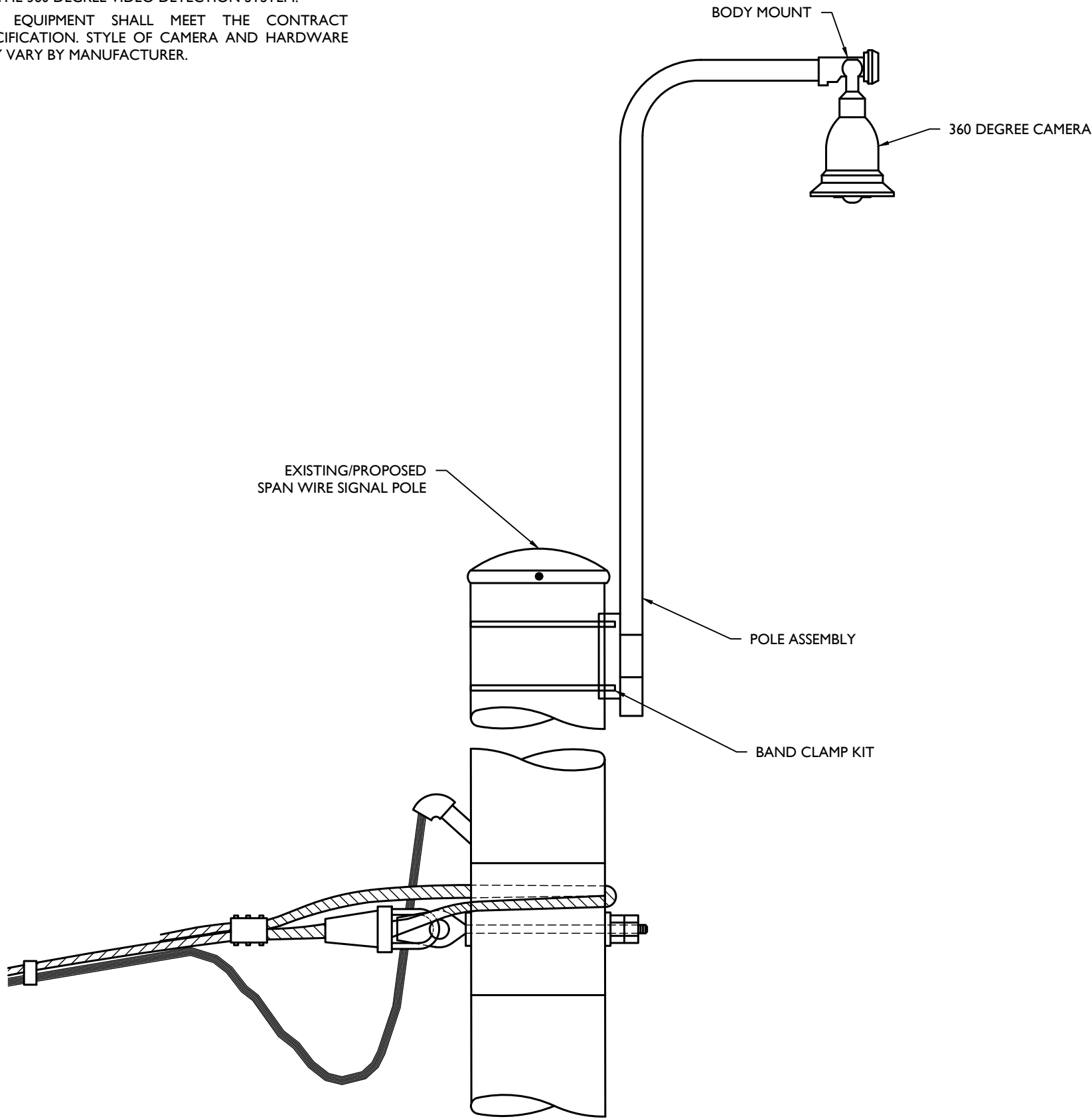
19. CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES (OVERHEAD AND UNDERGROUND) ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION. CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES (OVERHEAD AND/OR UNDERGROUND) NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE/SHE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.

20. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES IN AREA TO RESOLVE ANY CONFLICTS BETWEEN SIGNAL EQUIPMENT AND UTILITY.

21. AT THE CONCLUSION OF INSTALLATION WORK AND UPON ACCEPTANCE BY THE STATE THE CONTRACTOR SHALL FURNISH AN AS-BUILT DRAWING TO NYSDOT ALONG WITH A LIST OF ALL INSTALLED EQUIPMENT.

NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PROVIDED BY THE MANUFACTURER AND BE INCLUDED IN THE PRICE OF THE 360 DEGREE VIDEO DETECTION SYSTEM.
2. ALL EQUIPMENT SHALL MEET THE CONTRACT SPECIFICATION. STYLE OF CAMERA AND HARDWARE MAY VARY BY MANUFACTURER.



1

VIDEO DETECTION CAMERA DETAIL MOUNTED ON A SPAN WIRE POLE

NOT TO SCALE

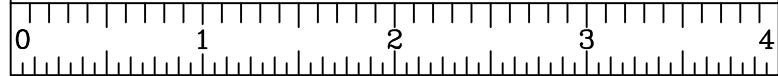
NYDT-SGNI-1000

08/16/21

DETECTION ZONE RANGE		
	CAMERA MOUNTING HEIGHT (FT)	MAXIMUM DISTANCE FROM CAMERA (FT)
MAST ARM	28	182
	30	195
	32	208
SPAN WIRE	40	260
	42	273
	44	286
	46	299
	48	312

NOTE  
SCALE REDUCTION

ALL INDICATED SCALES ARE  
REDUCED TO HALF SIZE.  
ORIGINAL DRAWING SIZE: 22"x34"



Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER CONSULTING**



PROTECT YOURSELF  
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: WWW.CALL811.COM

DESCRIPTION

DRAWN BY

DATE

REV

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

WESTCHESTER  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN, C.T. P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN: DATE: 8/28/23 DRAWN BY: J.F.M. CHECKED BY: P.J.G.

PROJECT NUMBER: 22010640A DRAWING NAME: TS-07

SHEET TITLE: TRAFFIC SIGNAL PLAN  
NYS ROUTE 94 & NYS ROUTE  
17 WB ON/OFF RAMPS  
(SIGNAL O-233)

SHEET NUMBER: TS-08

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



2023-06-06 11:06 AM C:\Users\jmc\OneDrive\Documents\Highway Improvement Plans\TS-09.dwg TS-09 By JMC/CN

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



Engineering  
& Design

www.colliersengineering.com

Copyright © 2023, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as



PROTECT YOURSELF  
ALL STATES REQUIRE NOTIFICATION OF  
EXCAVATIONS, DESIGNERS, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S  
SURFACE ANYWHERE IN ANY STATE



FOR STATE SPECIFIC DIRECT PHONE NUMBERS  
VISIT: WWW.CALL811.COM

REV	DESCRIPTION									
	DRAWN BY									
	DATE									

PRELIMINARY

HIGHWAY IMPROVEMENT  
PLANS

FOR  
SUMMERVILLE  
INDUSTRIAL PARK

3390 NYS ROUTE 94

VILLAGE OF CHESTER  
ORANGE COUNTY  
NEW YORK



Engineering  
& Design

WESTCHESTER  
400 Columbus Avenue,  
Suite 180E  
Valhalla, NY 10595

Phone: 914.347.7500

COLLIERS ENGINEERING & DESIGN, P.C.  
DOING BUSINESS AS MASER CONSULTING  
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN	DATE: 8/28/23	DRAWN BY: J.F.M.	CHECKED BY: P.J.G.
PROJECT NUMBER: 22010640A	DRAWING NAME: TS-07		

SHEET TITLE:  
TRAFFIC SIGNAL PLAN  
NYS ROUTE 94 & NYS ROUTE  
17 WB ON/OFF RAMP  
(SIGNAL O-233)

SHEET NUMBER:  
TS-09

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.