



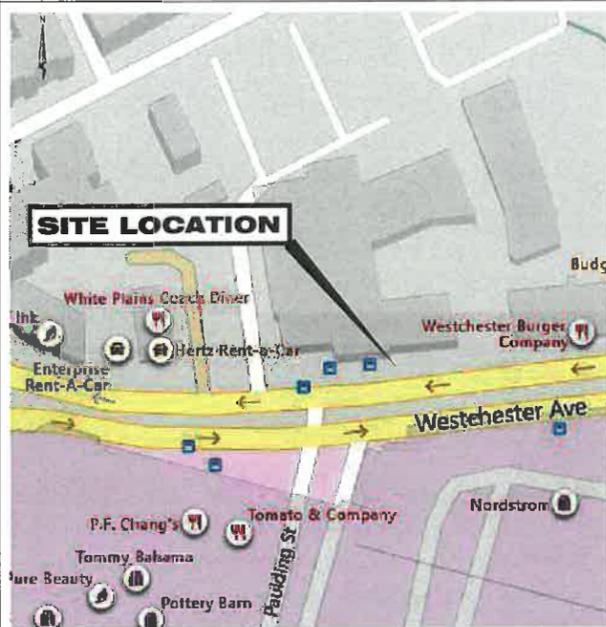
WST_WHP_N003
70 WESTCHESTER AVENUE, WHITE PLAINS, NY 10601



solutions for wireless ecosystems

4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY

LOCATION MAP



VICINITY MAP



PROJECT INFORMATION

SITE ADDRESS: 70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601
 LATITUDE: 41.032632
 LONGITUDE: -73.75952
 GROUND ELEVATION: ±160' AMSL
 JURISDICTION: CITY OF WHITE PLAINS
 POLE #: TBD
 POLE TYPE: METAL STREET LIGHT POLE
 POLE OWNER: TBD
 EXISTING STRUCTURE HEIGHT: ±30'-1" AGL (30.0833')
 PROPOSED STRUCTURE HEIGHT: ±30'-1" AGL (30.0833')
 ANTENNA CENTER HEIGHT: ±24'-6" AGL (24.5')
 POLE LOCATION & DESCRIPTION: NORTH SIDE OF WESTCHESTER AVENUE
 DISTANCE TO NEAREST CORNER: ±54'-4" (54.333) EAST OF PAULDING STREET
 APPLICANT: WEST NYACK, NY 10994
 d/b/a VERIZON WIRELESS
 4 CENTEROCK ROAD
 WEST NYACK, NY 10994
 ENGINEER: KMB DESIGN GROUP, LLC
 1800 ROUTE 34, SUITE 209
 WALL, NJ 07719
 PROJECT MANAGER: JASON BEATO (732) 280-5623

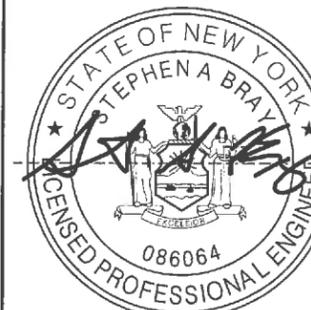
DRAWING INDEX

DWG #	DRAWING TITLES
C01	COVER SHEET
C02	AREA PLAN
C03	POLE ELEVATIONS
C04	CABLE ROUTING
C05	ANTENNA & EQUIPMENT SPECIFICATIONS & REPAIR DETAILS
C06	ANTENNA MOUNTING & SITE DETAILS
C07	MITIGATION DESIGN
TC1	VEHICULAR TRAFFIC CONTROL PLAN
TC1A	VEHICULAR TRAFFIC CONTROL PLAN
TC1B	VEHICULAR TRAFFIC CONTROL PLAN
TC1C	VEHICULAR TRAFFIC CONTROL PLAN
TC2	VEHICULAR TRAFFIC CONTROL PLAN
TC2A	VEHICULAR TRAFFIC CONTROL PLAN
TC2B	VEHICULAR TRAFFIC CONTROL PLAN
TC2C	VEHICULAR TRAFFIC CONTROL PLAN
GN01	GENERAL NOTES
E01	WIRING DIAGRAM



1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER

NY LICENSE: 088064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

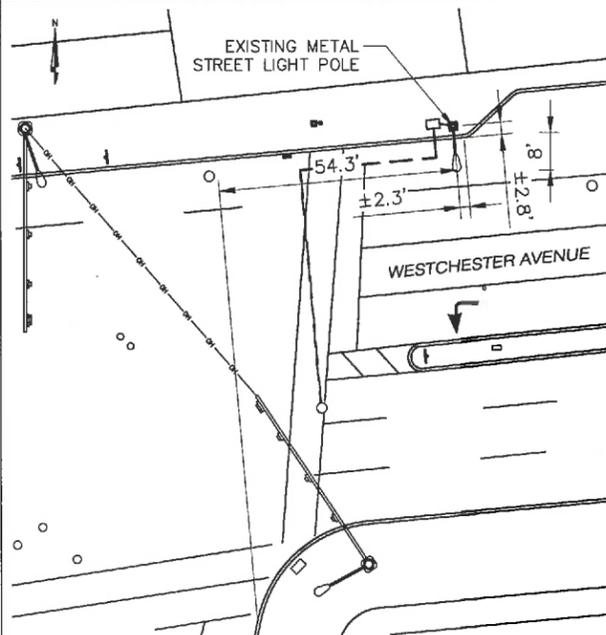
SHEET TITLE:
COVER SHEET

SHEET NUMBER: **C01** REV.: **4**

LOCATION PHOTO



KEY MAP



PROJECT SCOPE

INSTALLATION OF NEW VERIZON TELECOMMUNICATIONS EQUIPMENT ON AN EXISTING METAL STREET LIGHT POLE. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL (3) ANTENNAS
- INSTALL (1) AC DISCONNECT
- INSTALL (1) METER

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE AREAS GOVERNING CODES. ALL CODES WILL BE COMPLIED WITH.

- 2020 BUILDING CODE OF NEW YORK STATE
- NATIONAL ELECTRIC CODE, 2017

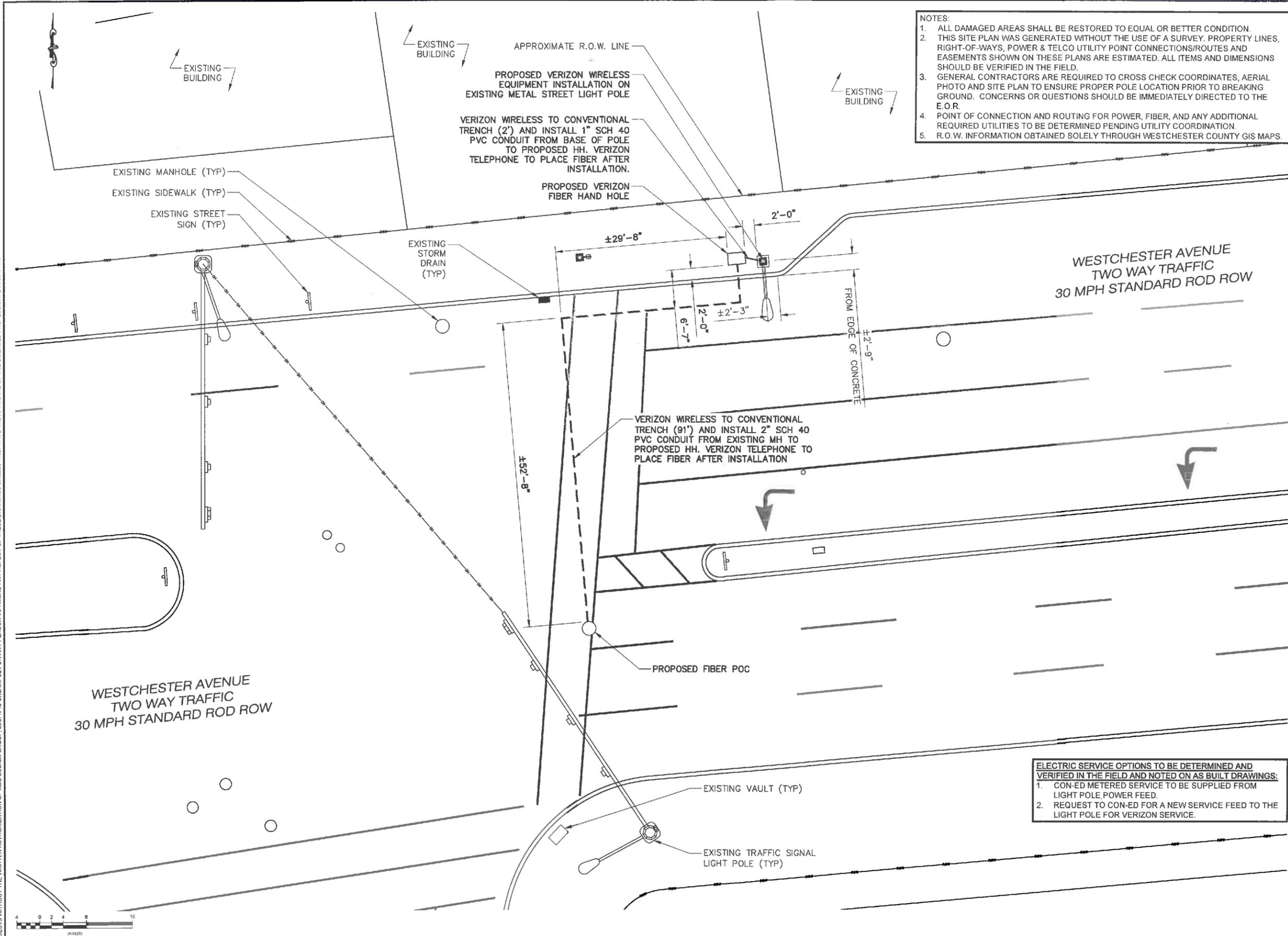


Know what's below.
Call before you dig.

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

K:\321_Verizon\321.5000_SQUAN\321.5002_Z03_Small_Cen\321.5002_Z03_CAD\321.5002_Z03_Construction\321.5002_Z03_C01.dwg, 4/5/2022 3:31:00 PM, dschlechter

UNLESS OTHERWISE NOTED, THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.



- NOTES:**
1. ALL DAMAGED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
 2. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.
 3. GENERAL CONTRACTORS ARE REQUIRED TO CROSS CHECK COORDINATES, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO THE E.O.R.
 4. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.
 5. R.O.W. INFORMATION OBTAINED SOLELY THROUGH WESTCHESTER COUNTY GIS MAPS.

WESTCHESTER AVENUE
TWO WAY TRAFFIC
30 MPH STANDARD ROD ROW

- ELECTRIC SERVICE OPTIONS TO BE DETERMINED AND VERIFIED IN THE FIELD AND NOTED ON AS BUILT DRAWINGS:**
1. CON-ED METERED SERVICE TO BE SUPPLIED FROM LIGHT POLE, POWER FEED.
 2. REQUEST TO CON-ED FOR A NEW SERVICE FEED TO THE LIGHT POLE FOR VERIZON SERVICE.



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-06-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
AREA PLAN

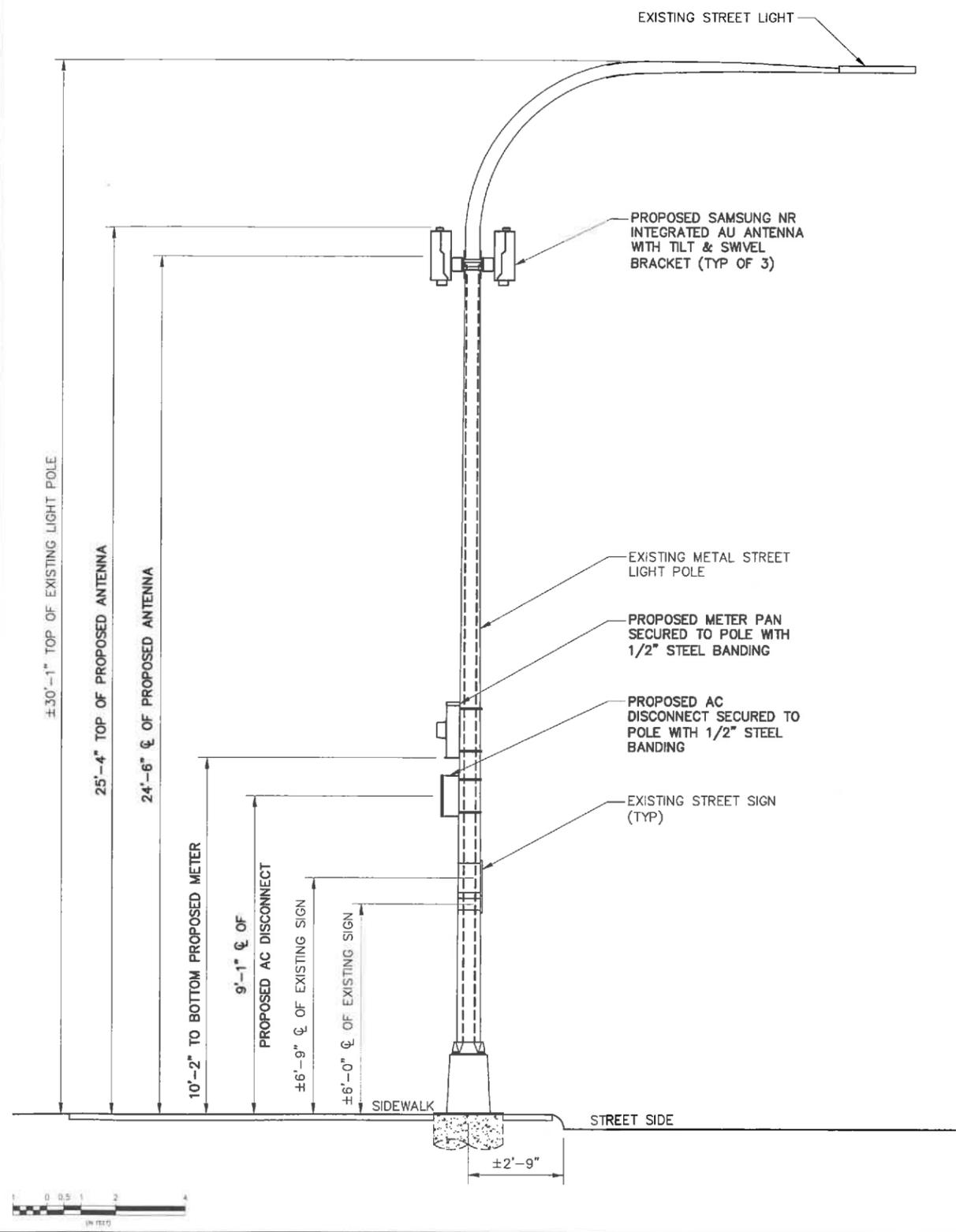
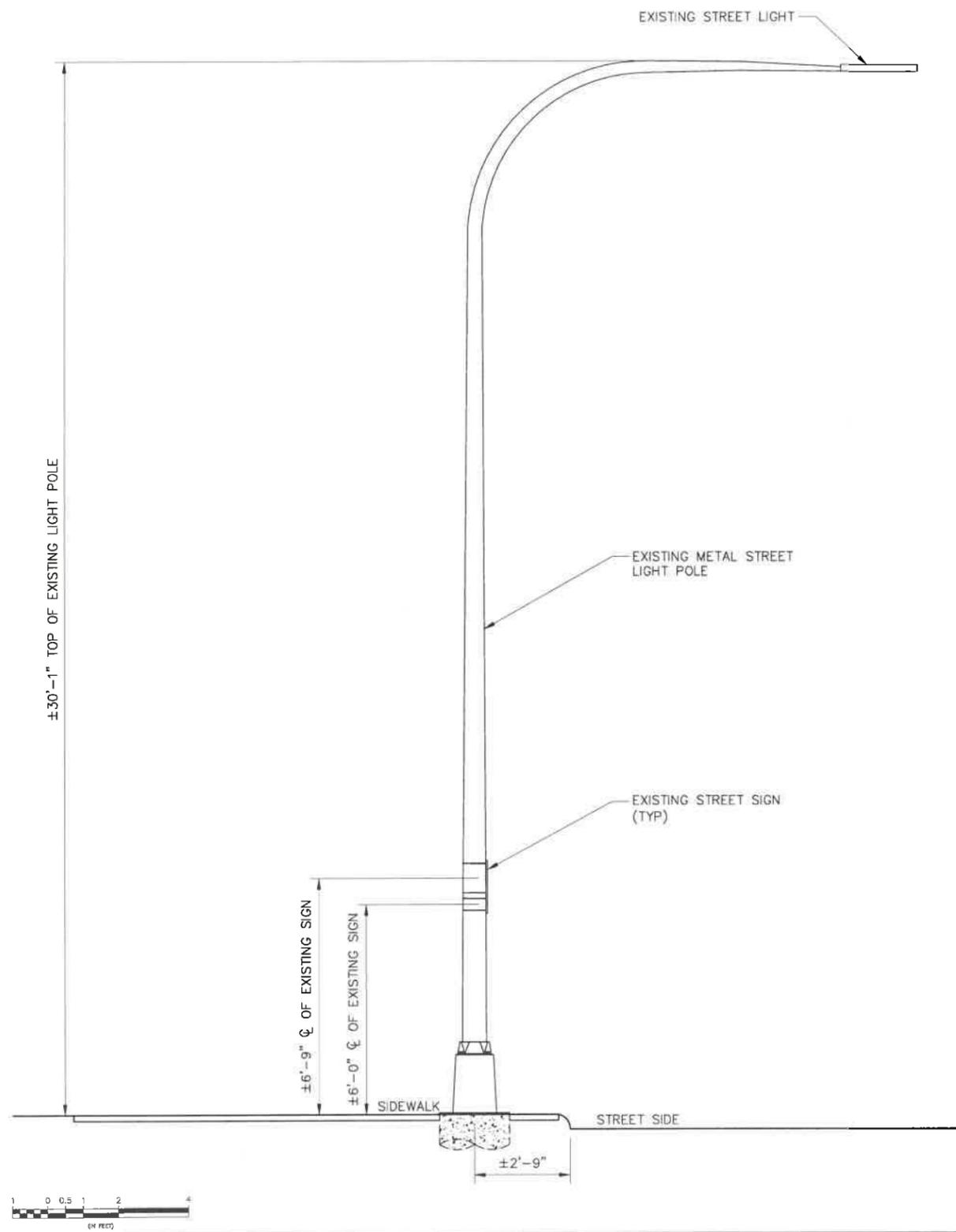
SHEET NUMBER:
C02

REV.:
4

K:\321_Verizon\321.5002_SQUAN\321.5002_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03_C02.dwg, 4/5/2022 3:31:04 PM, dschechter

KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

NOTES:
 1. ANY EXISTING CABLES OR UTILITIES NEAR PROPOSED EQUIPMENT ARE TO BE RELOCATED AS NEEDED, DETERMINED BY THE APPROPRIATE UTILITY COMPANY'S MAKE READY REPORT AND REQUIREMENTS. CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
 2. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.



1 EXISTING ELEVATION
 11x17 SCALE: 1/4" = 1'-0" 24x36 SCALE: 1/2" = 1'-0"

2 PROPOSED ELEVATION
 11x17 SCALE: 1/4" = 1'-0" 24x36 SCALE: 1/2" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-25-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-26-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784

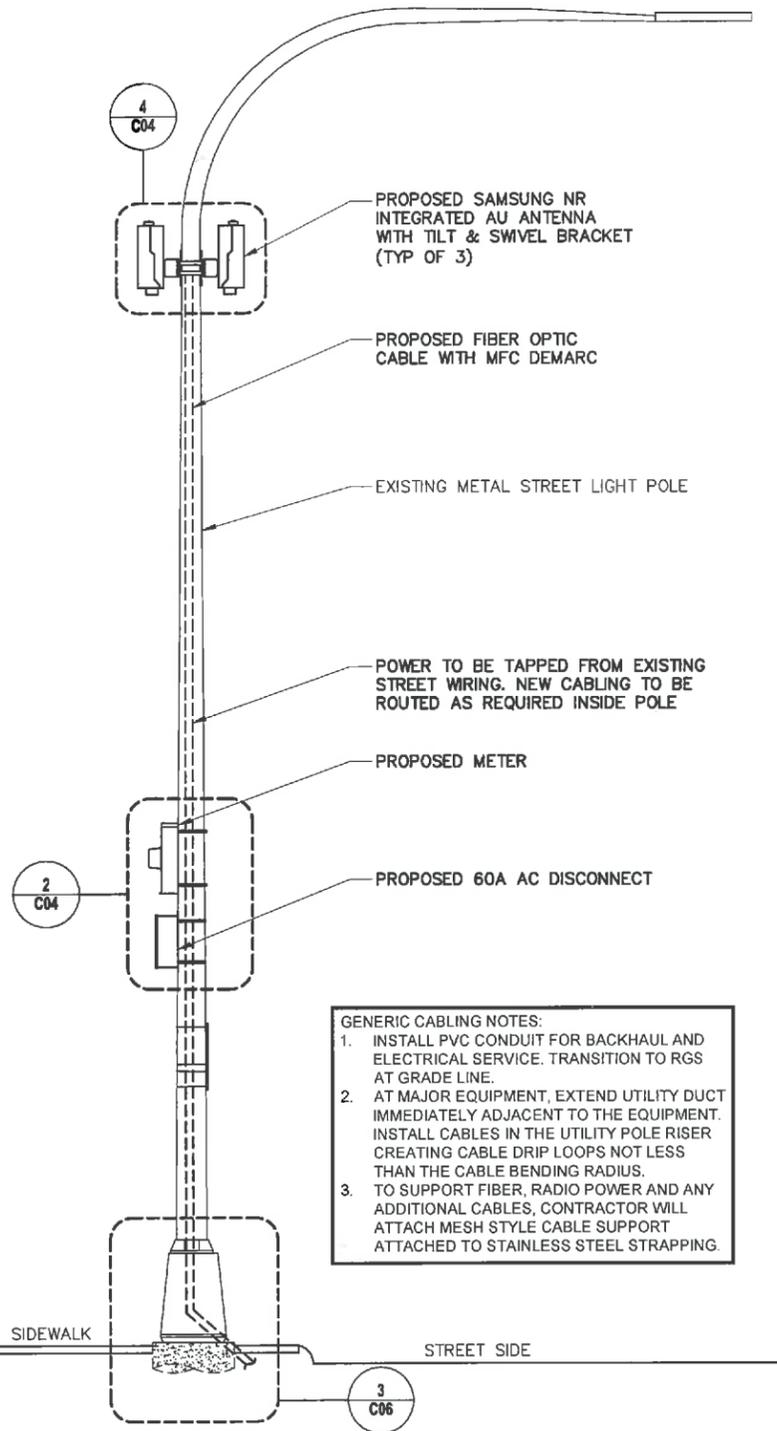
Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER: 321.5002.Z03	
SITE INFORMATION: 70 WESTCHESTER AVENUE WHITE PLAINS, NY 10601	
WST_WHP_N003	
DESIGN TYPE: LIGHT POLE	
SHEET TITLE: POLE ELEVATIONS	
SHEET NUMBER: C03	REV.: 4

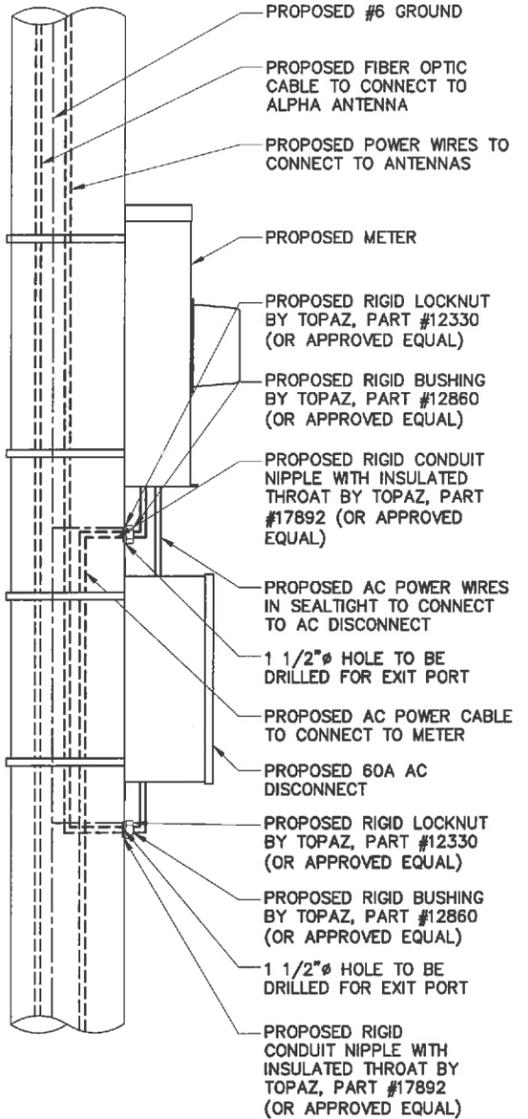
K:\321_Verizon_SQUAN\321.5002.White Plains\321.5002.Z03_Small Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.C03.dwg, 4/5/2022, 3:31:07 PM, dscheiter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

NOTES:
 1. CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON EXISTING POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
 2. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION. CONTRACTOR TO PROVIDE METHOD AND MEANS.



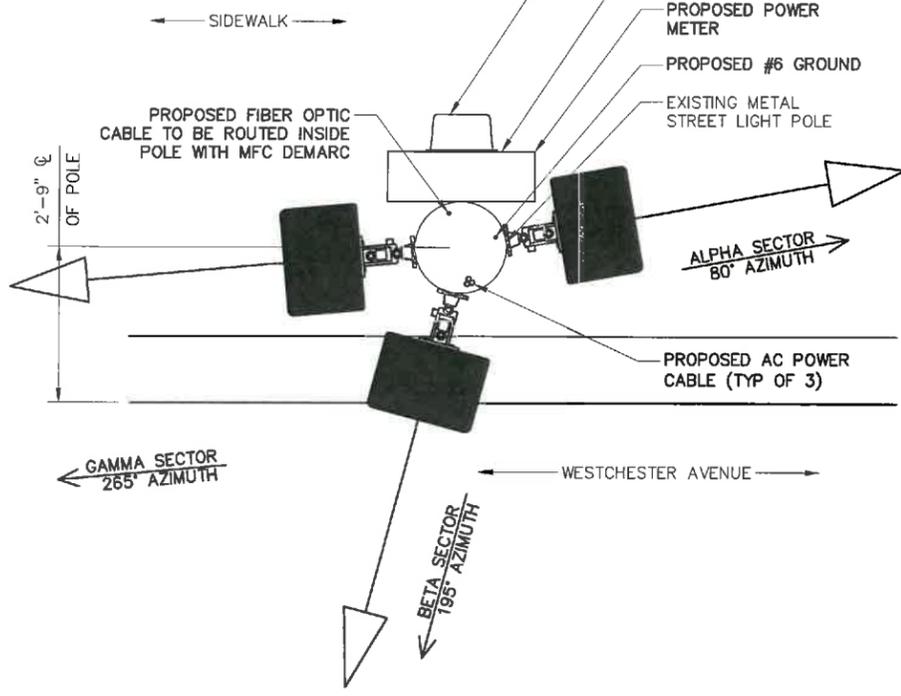
GENERIC CABLING NOTES:
 1. INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
 2. AT MAJOR EQUIPMENT, EXTEND UTILITY DUCT IMMEDIATELY ADJACENT TO THE EQUIPMENT. INSTALL CABLES IN THE UTILITY POLE RISER CREATING CABLE DRIP LOOPS NOT LESS THAN THE CABLE BENDING RADIUS.
 3. TO SUPPORT FIBER, RADIO POWER AND ANY ADDITIONAL CABLES, CONTRACTOR WILL ATTACH MESH STYLE CABLE SUPPORT ATTACHED TO STAINLESS STEEL STRAPPING.



NOTE:
 CONTRACTOR TO ENSURE ALL PENETRATIONS ARE SEALED WEATHERTIGHT WITH HEAVY DUTY ANTI-SEIZE LUBRICANT.

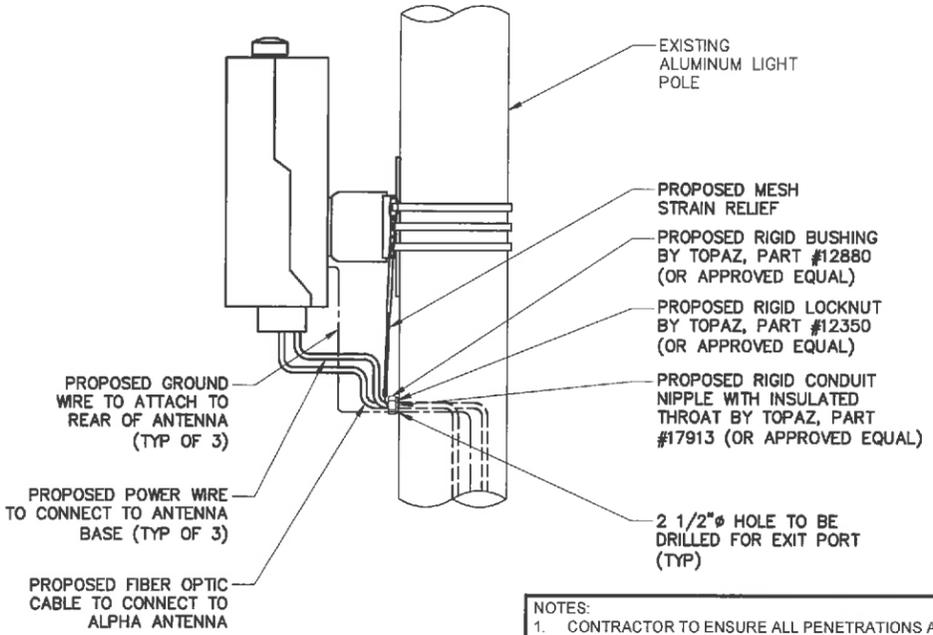
SECTOR	AZIMUTH	TILT
ALPHA	80	TBD
BETA	195	TBD
GAMMA	265	TBD

CONTRACTOR TO SEE SEPARATE DOCUMENT PROVIDED BY VERIZON FOR VALUES LISTED TBD



3 EQUIPMENT PLAN VIEW

SCALE: NTS



NOTES:
 1. CONTRACTOR TO ENSURE ALL PENETRATIONS ARE SEALED WEATHERTIGHT WITH HEAVY DUTY ANTI-SEIZE LUBRICANT.
 2. BETA & GAMMA SECTORS NOT SHOWN FOR CLARITY.

4 WIRING EXIT PORT DETAIL

SCALE: NTS



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	D68	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
 LIGHT POLE

SHEET TITLE:
 CABLE ROUTING

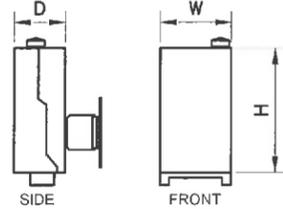
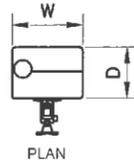
SHEET NUMBER:
C04

REV:
4

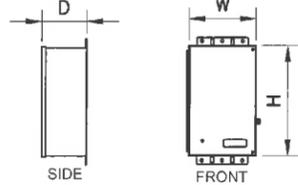
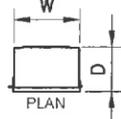
K:\321_Verizon_321.5000_SQUAN\321.5002_Z03_Small Cell\321.5002_Z03_Small Cell\321.5002_Z03_Construction\321.5002_Z03_C04.dwg, 4/5/2022 3:31:10 PM, dschlechter

UNIVERSITY OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

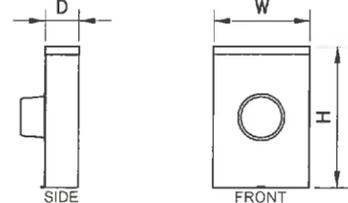
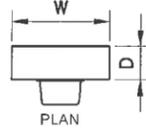
MANUF.: SAMSUNG
 MODEL: AT1K - TBD
 LENGTH: 16.8"
 WIDTH: 9.6"
 DEPTH: 6.9"
 WEIGHT: 33.1 lbs
 AREA: 0.5 SF



MANUF.: RAYCAP
 MODEL: RSD-DMN-X02MS-21NN
 HEIGHT: 13.9"
 WIDTH: 9.1"
 DEPTH: 6.1"
 WEIGHT: 16.3 lbs



MANUF.: MILBANK POWER METER
 MODEL: U4801-XL-5T9
 HEIGHT: 19.0"
 WIDTH: 13.0"
 DEPTH: 4.8"
 WEIGHT: 21.0 lbs



1 ANTENNA

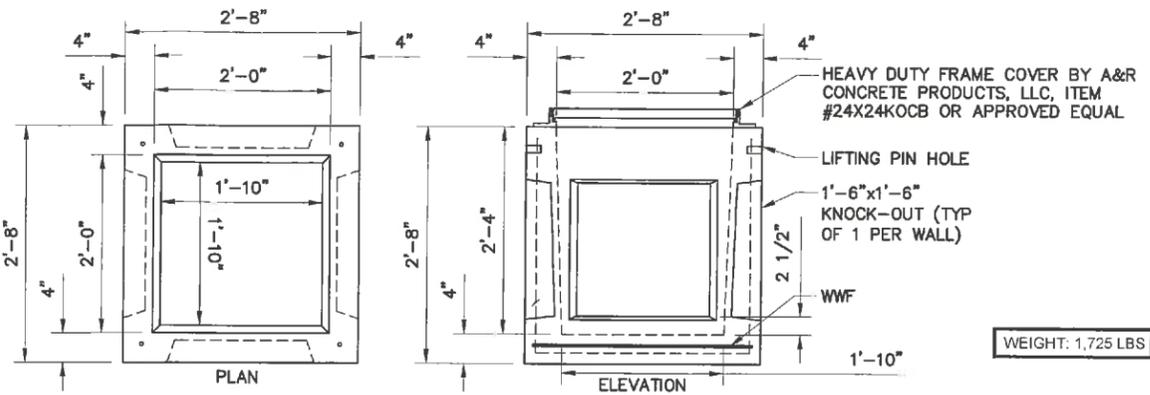
2 AC DISCONNECT

3 POWER METER

SCALE: NTS

SCALE: NTS

SCALE: NTS

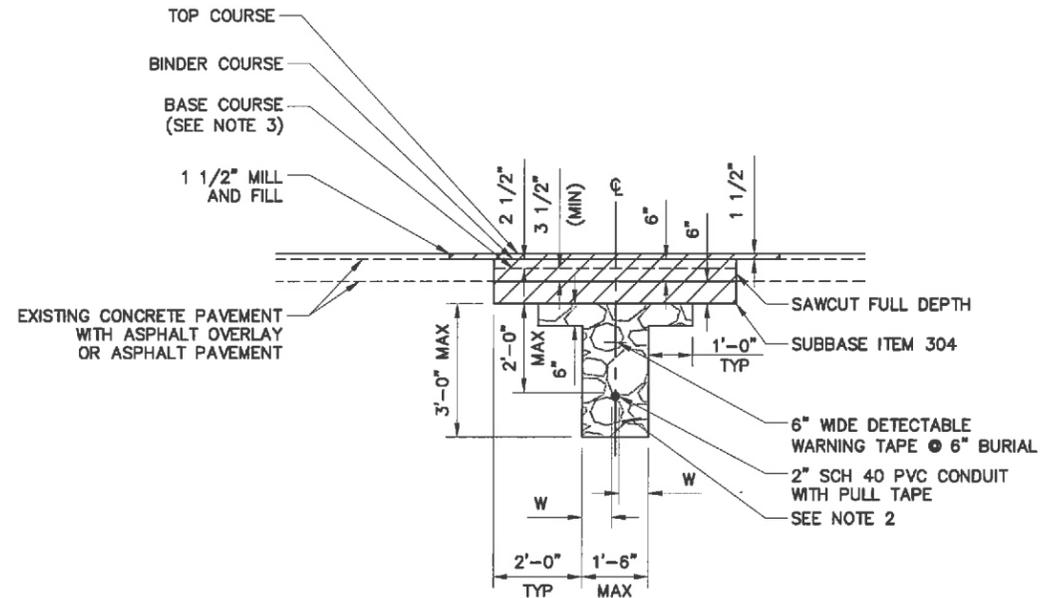


NOTE:
 1. PROPOSED OPTI-TIP FIBER TERMINAL TO BE INSTALLED BY VERIZON TELEPHONE DURING FIBER INSTALLATION.
 2. CONCRETE TO TEST 5,000 PSI AT 28 DAYS.
 3. REINFORCING STEEL PER ASTM A185 FOR WELDED WIRE FABRIC.
 4. FRAMES AND COVERS/GRATES ARE AVAILABLE UPON REQUEST.
 5. MANUFACTURER A&R CONCRETE PRODUCTS, LLC, NEWBURGH, NY, IS APPROVED BY NYS DOT FOR GROUP 2 ROUTINE PRODUCTION. THE MANUFACTURER IS IN GOOD STANDING ON THE APPROVED LIST BY NYS DOT. PRECAST ITEMS MAY BE PRODUCED AND SHIPPED WITH A MINIMUM LEVEL OF DEPARTMENT OVERSIGHT.

3 CONCRETE HAND HOLE DETAIL

11x17 SCALE: 1/2" = 1'-0"

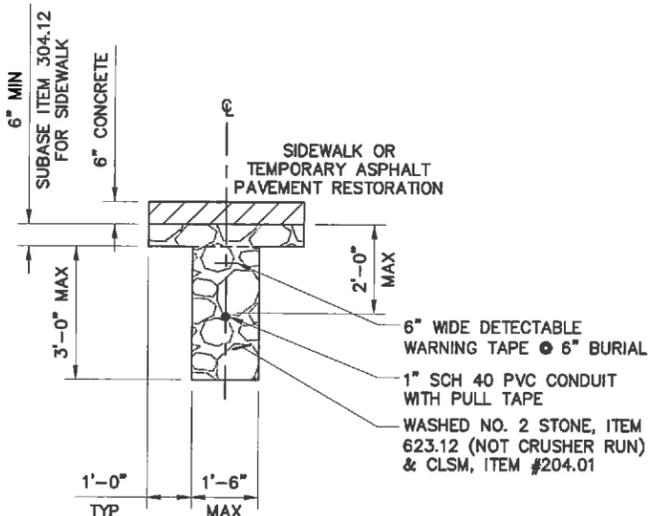
24x36 SCALE: 1" = 1'-0"



NOTES:
 1. ALL MATERIALS SHALL BE PROVIDED AND WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND ALL CURRENT ADDENDUM.
 2. WHEN "W" IS LESS THAN 18", CONTROLLED LOW STRENGTH BACKFILL (CLSM) SHALL BE USED. WHEN "W" IS 18" OR GREATER, THE BACKFILL SHALL BE SELECT GRANULAR FILL. MATERIAL AND PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. COMPACTION TESTS WILL BE COMPLETED ON IN-PLACE SELECT GRANULAR FILL. THE CLSM HAS TO SET PRIOR TO BACKFILLING. THE CONTRACTOR MAY SURROUND THE PIPE OR UTILITY WITH SPECIAL MATERIAL SUBJECT TO APPROVAL OF THE ENGINEER.
 3. THE 8" ASPHALT PAVEMENT BASE COURSES SHALL BE PLACED IN LIFTS NO GREATER THAN 4". IF THE EXISTING PAVEMENT IS GREATER THAN 12" TOTAL THICKNESS, THE BASE COURSE THICKNESS SHALL BE INCREASED SO THE BOTTOM OF THE RESTORATION PAVEMENT MATCHES THE EXISTING PAVEMENT.
 4. FOR LIGHTWEIGHT PIPE INSTALLATIONS, IT MAY BE NECESSARY TO COUNTERACT THE BUOYANCY OF THE PIPE DURING THE CLSM PLACEMENT. METHODS SUCH AS PARTIALLY FILLING WATERTIGHT PIPES WITH WATER, OR USING ANCHOR STRAPS OR GRAVEL BAGS TO HOLD DOWN THE PIPES CAN BE USED TO PREVENT FLOTATION.
 5. WHERE THE DISTANCE BETWEEN THE TOP OF PIPE ELEVATION AND THE TOP OF SUBGRADE ELEVATION IS LESS THAN 2", CLSM SHALL BE USED FOR BACKFILL MATERIAL TO TOP OF SUBGRADE ELEVATION.
 6. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED AT THE BOTTOM OF THE TRENCH, A LAYER OF SELECT GRANULAR FILL OR CLSM SHALL BE PLACED TO PROVIDE A STABLE BEDDING.
 7. DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS UNLESS ALUMINUM IS COATED WITH AN APPROVED PRIMER.
 8. DO NOT PLACE CLSM CONTAINING FLY ASH IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS.
 9. ALL PAVEMENT JOINTS SHALL BE SEALED.
 10. ALL DISTURBED OR NEW PAVEMENT SHALL HAVE TEMPORARY PAVEMENT STRIPING INSTALLED WITHIN 24 HOURS, AND FINAL STRIPING BEFORE ACCEPTANCE OF WORK.

4 ASPHALT PAVEMENT REPAIR SECTION DETAIL

SCALE: NTS



GENERAL NOTES:
 1. SECTION 204 OF THE STANDARD SPECIFICATIONS APPLIES, EXCEPT AS MODIFIED BY THE FOLLOWING NOTES.
 2. THE FOLLOWING NOTES PERTAIN TO THE USE OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) FOR BACKFILL AT THE EXISTING UNDERGROUND UTILITY INSTALLATION.

CLSM PLACEMENT:
 1. WORK INVOLVING QUANTITIES OF CLSM LESS THAN 2.6YD, THE REGIONAL PERMIT ENGINEER MAY ALLOW USE OF A SMALL CONSTRUCTION MIXER CAPABLE OF PRODUCING CLSM HAVING THE SPECIFIED COMPRESSIVE STRENGTH AND FLOW CONSISTENCY. FOR CLSM PLACED UNDER SUCH CONDITIONS, MIX TIME IS MINIMUM OF 90 SECONDS AFTER ALL THE MATERIALS ARE IN THE MIXER DRUM.
 2. OBSERVE PROPER SET TIME FOR CLSM BEFORE PLACING OVERLYING MATERIALS.

CLSM RESTRICTIONS:
 1. DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS UNLESS THE ALUMINUM IS COATED WITH AN APPROVED PRIMER.
 2. DO NOT PLACE CLSM CONTAINING FLY ASH (ITEM 204.01) IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS. USE CLSM WITH NO FLY ASH (ITEM 204.02).
 3. THERE SHALL BE NO SAND IN THE CLSM MIX DESIGN.
 4. THE WATER/CEMENT RATIO SHALL BE 0.36-0.40.

5 SIDEWALK REPAIR SECTION DETAIL

SCALE: NTS



4	04-05-22	ISSUED AS FINAL	D&S	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-26-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
 LIGHT POLE

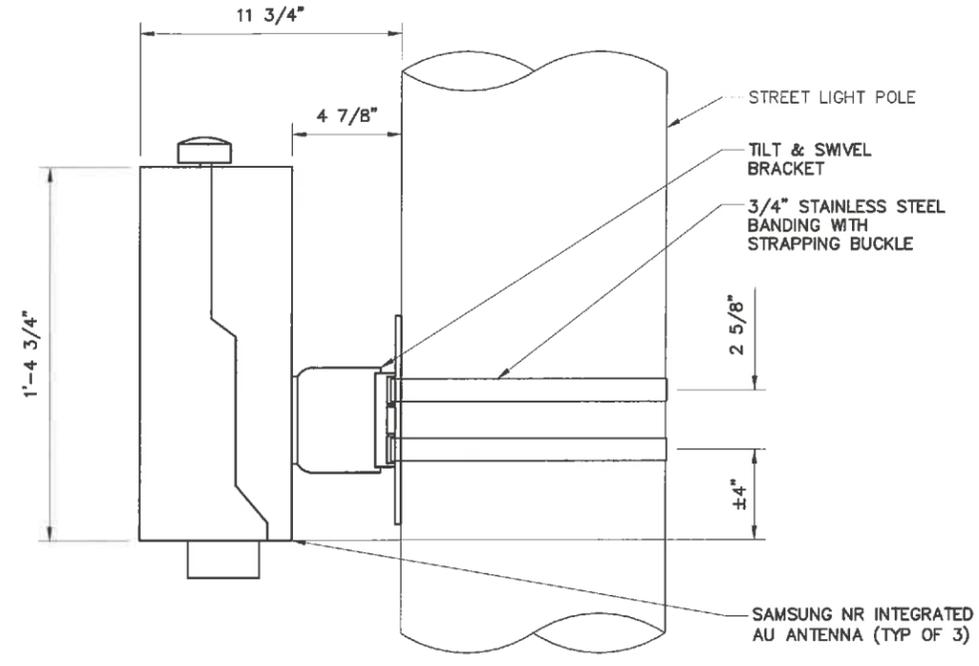
SHEET TITLE:
 ANTENNA & EQUIPMENT
 SPECIFICATIONS & REPAIR DETAILS

SHEET NUMBER:
C05

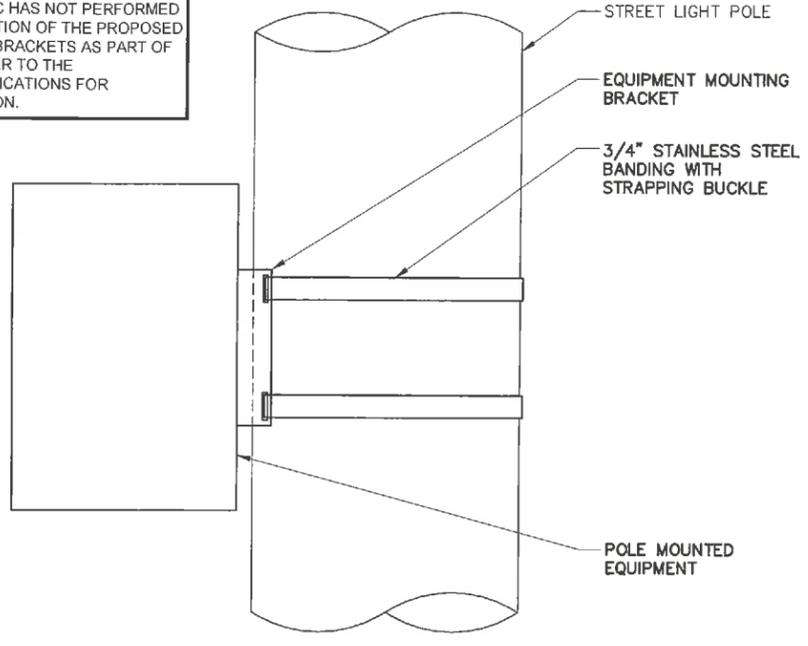
REV:
4

K:\321_Verizon\321.5000_SQUAN\321.5002_Z03_Small Cell\321.5002_Z03_Small Cell\321.5002_Z03_Construction\321.5002_Z03_C05.dwg, 4/5/2022 3:31:14 PM, dschlechter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.



NOTE:
 KMB DESIGN GROUP, LLC HAS NOT PERFORMED
 A STRUCTURAL EVALUATION OF THE PROPOSED
 EQUIPMENT MOUNTING BRACKETS AS PART OF
 THIS APPLICATION. REFER TO THE
 MANUFACTURER SPECIFICATIONS FOR
 ADDITIONAL INFORMATION.



1 TILT BRACKET POLE MOUNT OPTION

11x17 SCALE: 1 1/2" = 1'-0"

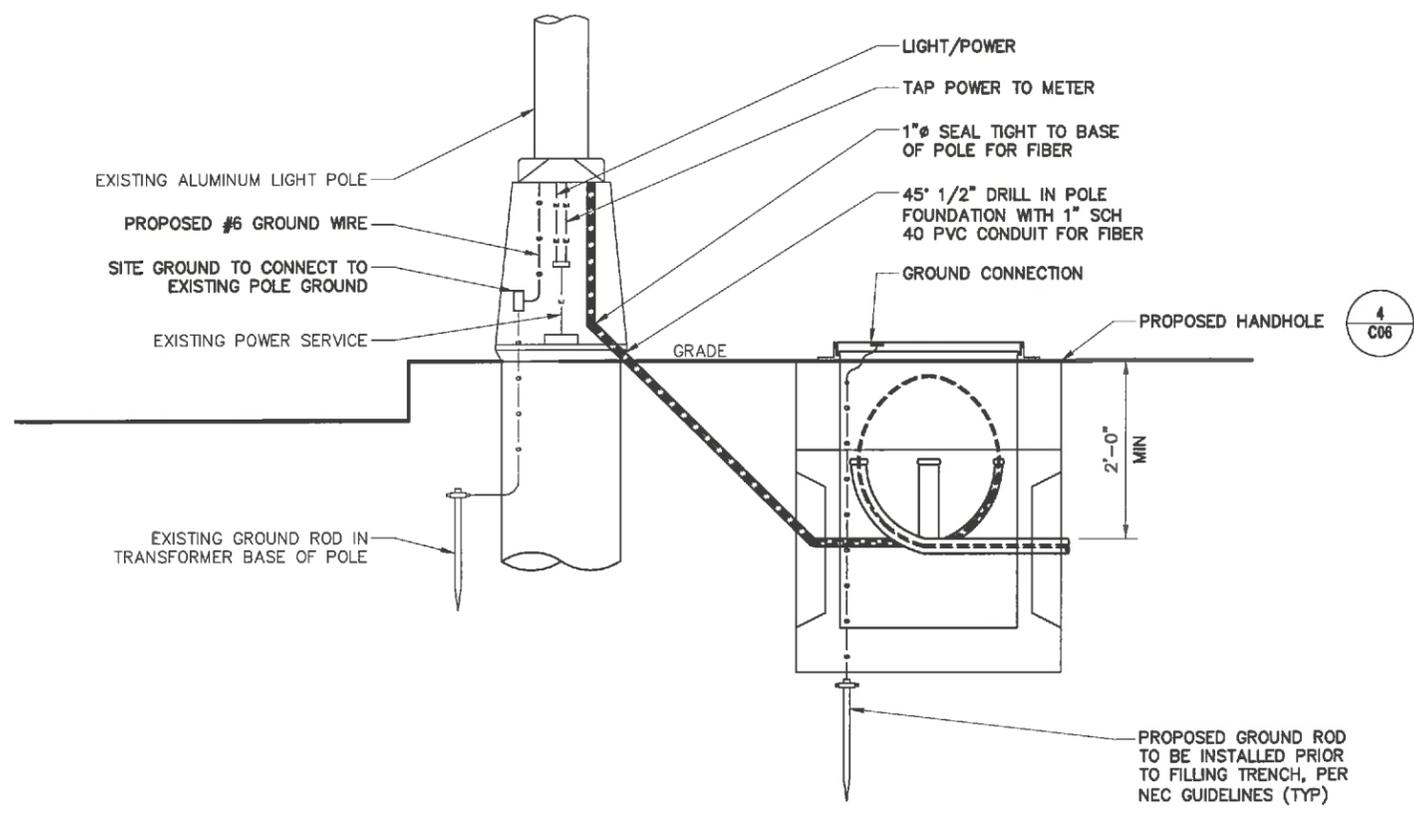
24x36 SCALE: 3" = 1'-0"

2 EQUIPMENT MOUNTING DETAIL

11x17 SCALE: 1 1/2" = 1'-0"

24x36 SCALE: 3" = 1'-0"

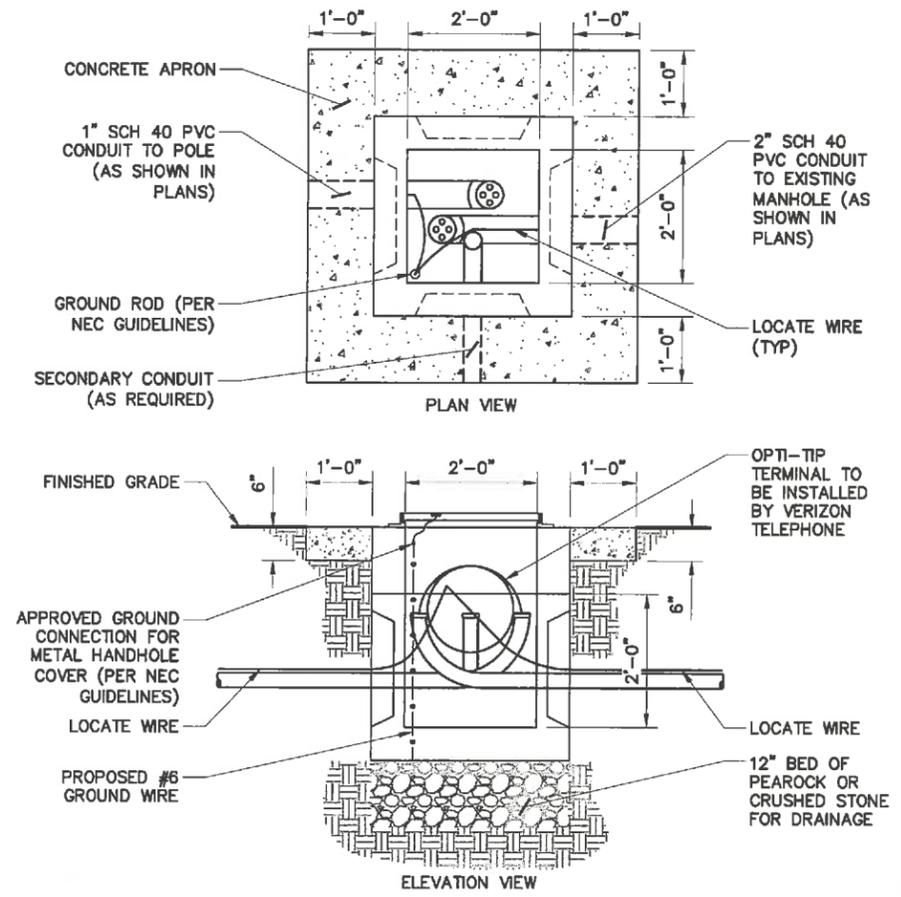
NOTE:
 CONTRACTOR TO ENSURE ALL PENETRATIONS
 ARE SEALED WEATHERTIGHT WITH HEAVY
 DUTY ANTI-SEIZE LUBRICANT.



3 CABLE ROUTING ELEVATION & TRENCH DETAIL

11x17 SCALE: 1/2" = 1'-0"

24x36 SCALE: 1" = 1'-0"



4 HAND HOLE DETAIL

11x17 SCALE: 3/8" = 1'-0"

24x36 SCALE: 3/4" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
 LIGHT POLE

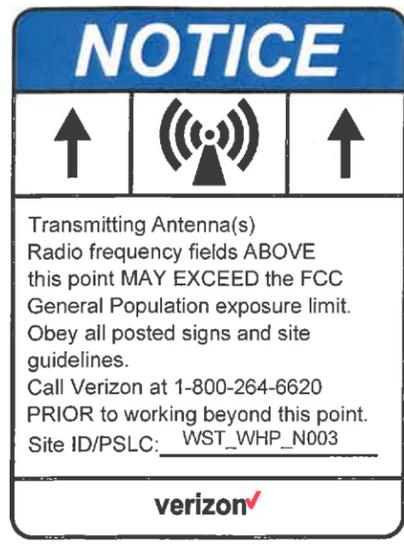
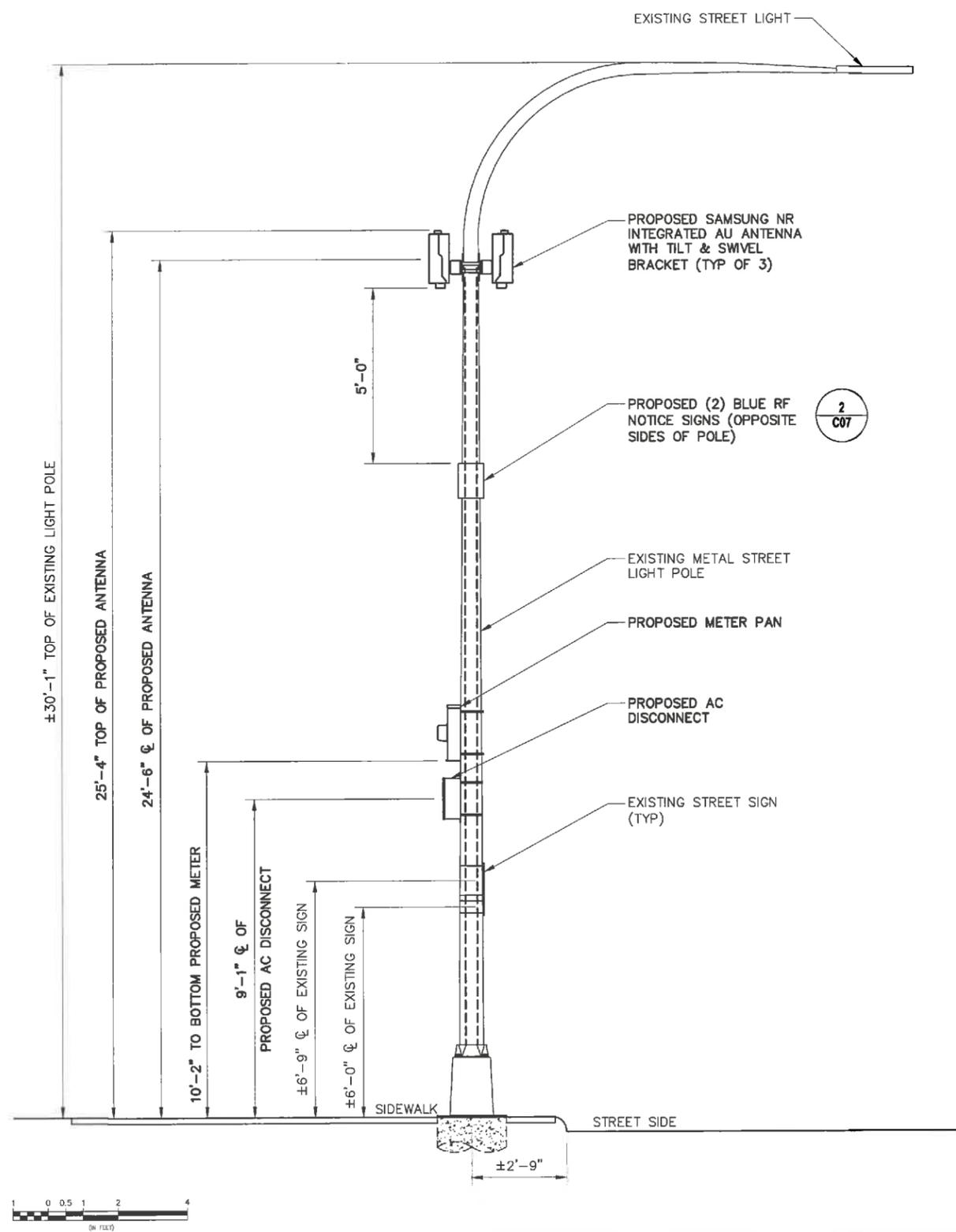
SHEET TITLE:
 ANTENNA MOUNTING
 DETAILS

SHEET NUMBER: **C06** REV: **4**

K:\321_Verizon\321.5000_SQUAN\321.5002_Z03_White Plains\321.5002_Z03_Small Cell\321.5002_Z03_Construction\321.5002_Z03_C06.dwg, 4/5/2022 3:31:17 PM, dschechter

UNIVERSITY OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

NOTES:
 EBL'S MODELING INDICATES THAT BASED ON WORST-CASE MODELING CALCULATIONS RELATED TO THE PROPOSED ANTENNAS AT GROUND LEVEL, THE MAXIMUM CUMULATIVE EXPOSURE LEVEL FROM ALL CARRIERS ON THIS SITE IS APPROXIMATELY 7.5 PERCENT OF THE FCC'S GENERAL POPULATION LIMIT (1.5 PERCENT OF THE FCC'S OCCUPATIONAL LIMIT). AS NOTED ABOVE, THERE MAY BE EXPOSURES THAT EXCEED THE FCC'S GENERAL POPULATION LIMITS, BUT AS THESE TRANSMIT IN FRONT OF THE ANTENNAS INTO FREE SPACE/MIDAIR, NO WALKING SURFACES ARE AFFECTED. AS A PRECAUTION, AND IN ORDER TO ALERT PEOPLE ACCESSING THE TRAFFIC LIGHT POLE, BLUE NOTICE SIGNS ARE RECOMMENDED FOR INSTALLATION 5 FEET BELOW THE BOTTOM OF THE ANTENNAS ON OPPOSITE SIDES OF THE TRAFFIC LIGHT POLE.



2 RF NOTICE
 SCALE: NTS

1 MITIGATION DESIGN
 11x17 SCALE: 1/4" = 1'-0" 24x36 SCALE: 1/2" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-26-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
 LIGHT POLE

SHEET TITLE:
 MITIGATION DESIGN

SHEET NUMBER: **C07** REV: **4**

X:\321_Verizon\321.5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.C07.dwg, 4/5/2022, 3:31:20 PM, dschlechter

CONTRACTOR OF RECORDS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

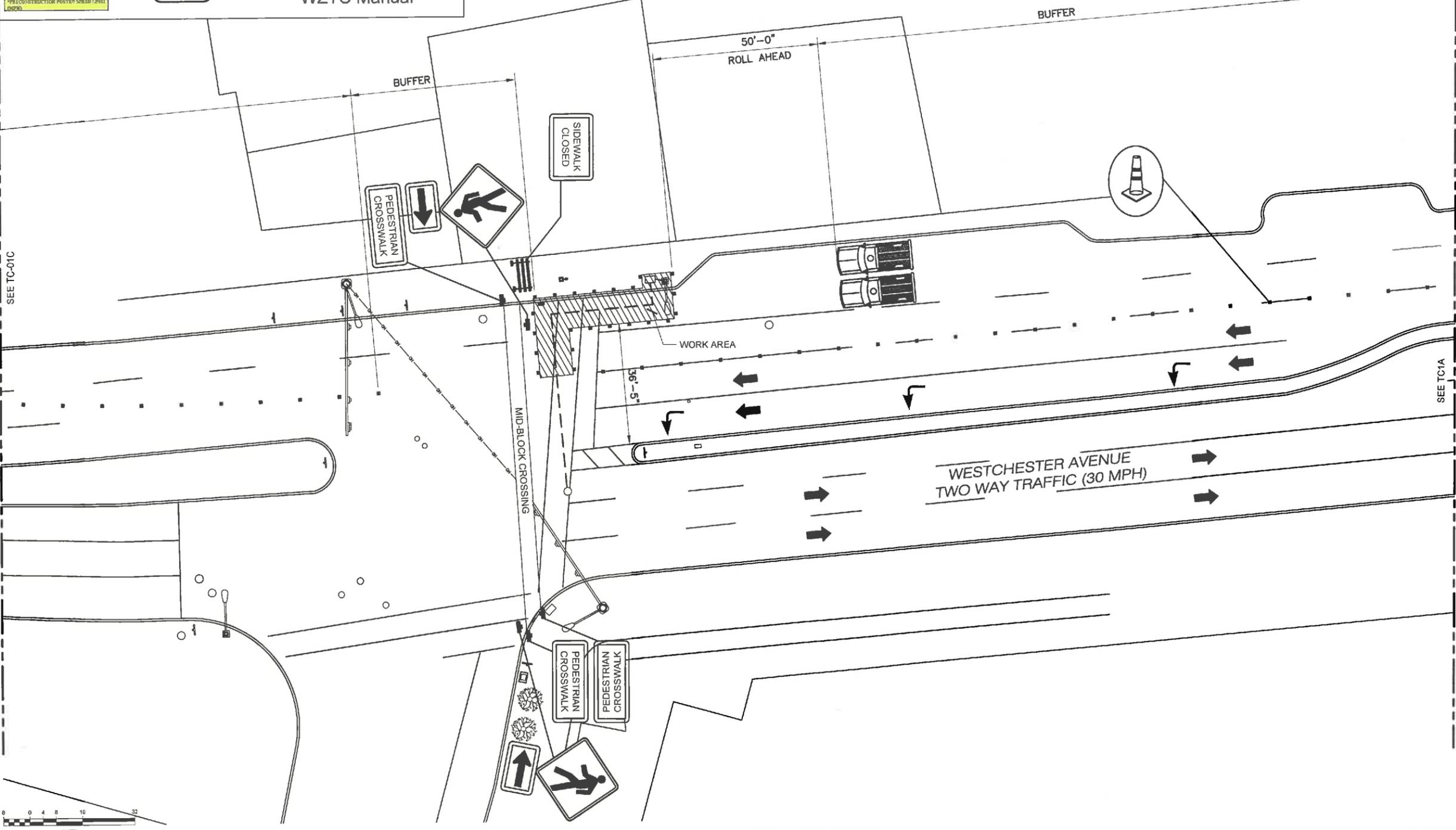
SPEED*	LANE TAPER: 1:1 (IN FT.) # SKIP LINES/# OF CORES			SHOULDER TAPER: 1:3 (IN FT.) # SKIP LINES/# OF EDGES		
	10 FT	11 FT	12 FT	Less than 8 FT. (MIN - MAX)	8 FT OR WIDER (MIN)	49 FT/2
25	120/3/4	120/3/4	140/3/5	20/1/2	40/1/2	49/1/2
30	100/4/5	180/5/6	180/5/6	20/1/2	40/1/2	49/1/2
35	220/6/7	240/6/7	280/7/8	40/1/2	60/2/3	80/2/3
40	280/7/8	300/8/9	320/8/9	40/1/2	60/2/3	80/2/3
45	400/12/13	500/13/14	520/14/14	50/2/3	100/3/4	120/3/4
50	500/15/16	500/16/17	600/17/18	80/2/3	100/3/4	140/4/5
55	560/14/15	620/16/17	600/17/18	80/2/3	100/3/4	140/4/5
65	660/17/18	720/18/19	780/20/21	100/3/4	140/4/5	180/5/6

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	40	200	200	200		
URBAN HIGH (45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	500	520	520	1500 FT.	1000 FT.	
Expressway /Freeway	1000	1500	2400	1 MILE	1/2 MILE	

SPACING	BUFFER SPACE IN FT
10	155 (-4 Skip Lines)
15	235 (-3 Skip Lines)
20	295 (-2 Skip Lines)
25	335 (-1 Skip Line)
30	365 (-1 Skip Line)
35	395 (-1 Skip Line)
40	425 (-1 Skip Line)
45	455 (-1 Skip Line)
50	485 (-1 Skip Line)
55	515 (-1 Skip Line)
60	545 (-1 Skip Line)
65	575 (-1 Skip Line)

**SPEED
LIMIT
30**

To be setup in accordance
with TAST-C5 of the
WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 1)
11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

verizon

SQUAN
solutions for wireless ecosystems

REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB

KMB
DESIGN GROUP
kmbdg.com

1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A. BRAY
LICENSED PROFESSIONAL ENGINEER
086064

Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
VEHICULAR
TRAFFIC CONTROL PLAN

SHEET NUMBER:
TC1

REV.:
4

K:\321_Verizon\321.5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small_Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:24 PM, dbrichter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

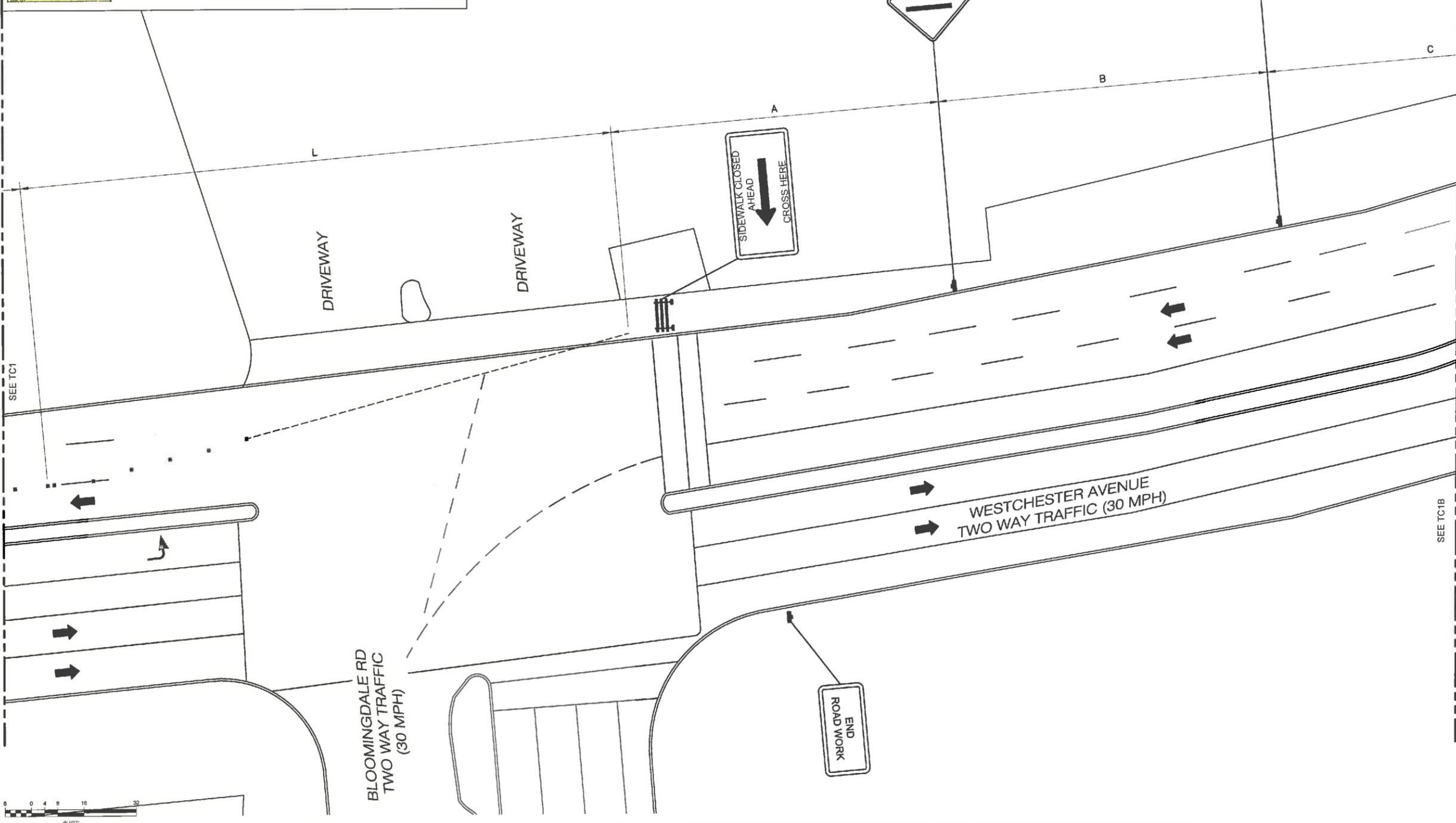
SPEED*	LANE TAPER: L (IN FT.) / # SKIP LINES / # OF CONES			SHOULDER TAPER: L/A (IN FT.) / # SKIP LINES / # OF CONES	
	10 FT	11 FT	12 FT	Less than 8 FT (MIN - MAX)	8 FT OR GREATER (MIN)
25	120/3/4	120/3/4	148/3/5	20/1/2 - 45/1/2	45/1/2
30	100/4/5	180/2/6	180/2/6	20/1/2 - 45/1/2	45/1/2
35	220/6/7	240/5/7	300/7/8	40/1/2 - 60/1/2	60/1/2
40	280/7/8	300/6/8	320/8/9	40/1/2 - 60/1/2	60/1/2
45	440/12/12	500/13/13	540/14/14	60/2/3 - 100/3/4	120/3/4
50	500/13/14	560/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	560/14/15	620/16/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	660/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5	180/5/6

Roadway	SPEED*	DISTANCE BETWEEN SIGNS		SIGN LEGEND	
		A (FT)	B (FT)	XX	YY
URBAN LOW (≤30 MPH)	30	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	35	200	200		
URBAN HIGH (45 MPH)	45	350	350	1000 FT.	AHEAD
RURAL		500	500	1500 FT.	1000 FT.
Expressway (Freeway)		1800	1500	1 MILE	1/2 MILE

SPEED*	MINIMUM SPACING IN FT.
25	155 (-4 Skip Lines)
30	202 (-3 Skip Lines)
35	222 (-3 Skip Lines)
40	282 (-4 Skip Lines)
45	342 (-9 Skip Lines)
50	425 (-11 Skip Lines)
55	445 (-13 Skip Lines)
65	495 (-15 Skip Lines)

**SPEED
LIMIT
30**

To be setup in accordance
with TAST-C5 of the
WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 1)

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

verizon

SQUAN
solutions for wireless ecosystems

REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	D&S	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB

KMB DESIGN GROUP
kmbdg.com

1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A. BRAY
LICENSED PROFESSIONAL ENGINEER
086064

Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
VEHICULAR
TRAFFIC CONTROL PLAN

SHEET NUMBER:
TC1A

REV.:
4

K:\321_Verizon\321.5000_SQUAN\321.5002_Z03_Small Cell\321.5002_Z03_White Plains\321.5002_Z03_CAD\321.5002_Z03_Construction\321.5002_Z03_TC1.dwg, 4/5/2022 3:31:25 PM, detchter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

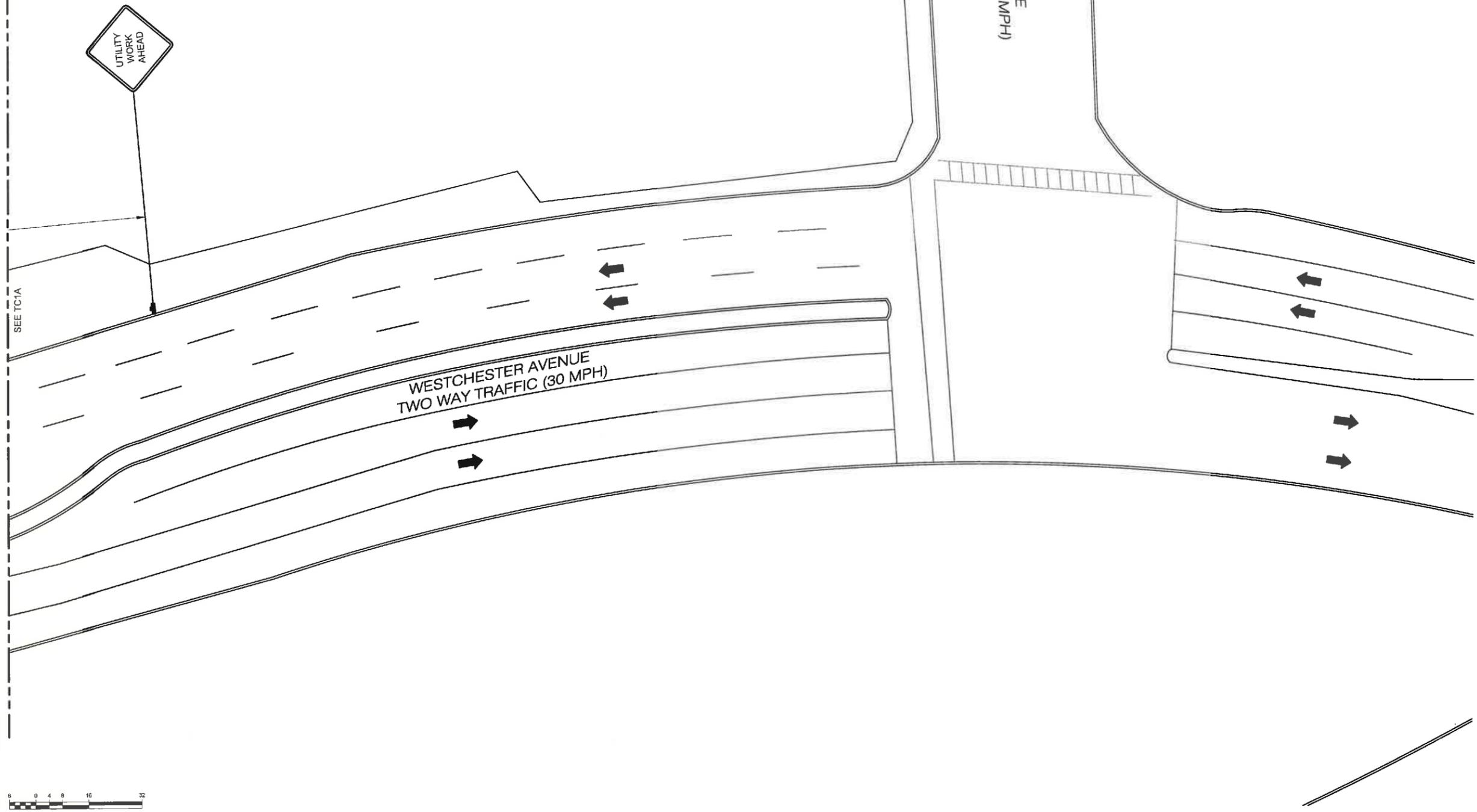
SPEED*	LANE TAPER - L (IN FT.) # SKIP LINES / # OF CONES			SHOULDER TAPER - L (IN FT.) # SKIP LINES / # OF CONES		
	FOR LANE WIDTH	11 FT.	12 FT.	Less than 4 FT. (MIN - MAX)	4 FT. OR WIDER (MIN)	8 FT. OR WIDER (MIN)
25	120/3/4	120/3/4	140/2/5	23/1/2	45/1/2	40/1/2
30	120/4/5	180/2/6	180/2/6	22/1/2	42/1/2	40/1/2
35	220/6/7	240/5/7	300/7/8	40/1/2	60/1/3	80/2/3
40	380/7/8	390/5/9	320/8/9	43/1/2	65/2/3	85/2/3
45	460/12/12	500/13/13	540/14/14	62/2/3	100/3/4	120/3/4
50	500/13/14	560/14/15	600/15/15	82/2/3	100/3/4	140/4/5
55	560/14/15	600/15/17	660/17/18	82/2/3	120/3/4	160/4/5
65	660/17/18	720/18/19	780/19/21	100/3/4	140/4/5	180/5/6

Roadway	SPEED*	DISTANCE BETWEEN SIGNS FOR LANE WIDTH			SIGN LEGEND	
		A (FT)	B (FT)	C (FT)	XX	YY
URBAN LOW (30 MPH)	30	100	150	100	XXXX	XXXX
URBAN (35-40 MPH)	35 40	200	200	200	XXXX	XXXX
URBAN HIGH (45 MPH)	45	350	350	350	XXXX	XXXX
RURAL	50	500	500	500	XXXX	XXXX
Expressway (Freeway)	60	1600	1500	2400	XXXX	XXXX

SPEED*	BUFFER SPACE (IN FT.)
25	155 (-4 Skip Lines)
30	200 (-5 Skip Lines)
35	250 (-8 Skip Lines)
40	305 (-4 Skip Lines)
45	360 (-9 Skip Lines)
50	425 (-11 Skip Lines)
55	495 (-13 Skip Lines)
65	645 (-16 Skip Lines)

**SPEED
LIMIT
30**

To be setup in accordance
with TAST-C5 of the
WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 1)
11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DGS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-20-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB

KMB DESIGN GROUP
kmbdg.com
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
VEHICULAR
TRAFFIC CONTROL PLAN

SHEET NUMBER: **TC1B** REV: **4**

K:\321_Verizon_321.5002_SQUAN321.5002_White Plains\321.5002.Z03_Small\Call\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:27 PM, dschachter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

TABLE 1.1: TAPER LENGTHS AND NUMBER OF CONES

SPEED*	LANE TAPER: 1:4 (IN FT.) # OF CONES: 10 FT. / 11 FT. / 12 FT.			SHOULDER TAPER: 1:3 (IN FT.) # OF CONES: 10 FT. / 11 FT. / 12 FT.	
	10 FT.	11 FT.	12 FT.	Less than 8 FT. (MIN. - MAX.)	8 FT. OR GREATER (MIN. - MAX.)
25	126/2/4	129/3/4	148/3/5	20/1/2 - 45/1/2	40/1/2
30	169/4/5	189/5/6	180/2/6	20/1/2 - 60/1/2	40/1/2
35	220/6/7	148/5/7	200/7/8	40/1/2 - 60/1/2	80/2/2
40	280/7/8	326/8/9	220/8/9	40/1/2 - 90/1/2	80/2/2
45	460/12/12	506/13/13	540/14/14	60/2/3 - 100/3/3	120/3/4
50	500/13/14	563/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	560/14/15	628/16/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	660/15/16	728/18/19	780/20/21	100/3/4 - 140/4/5	180/5/6

TABLE 1.2: DISTANCE BETWEEN SIGNS

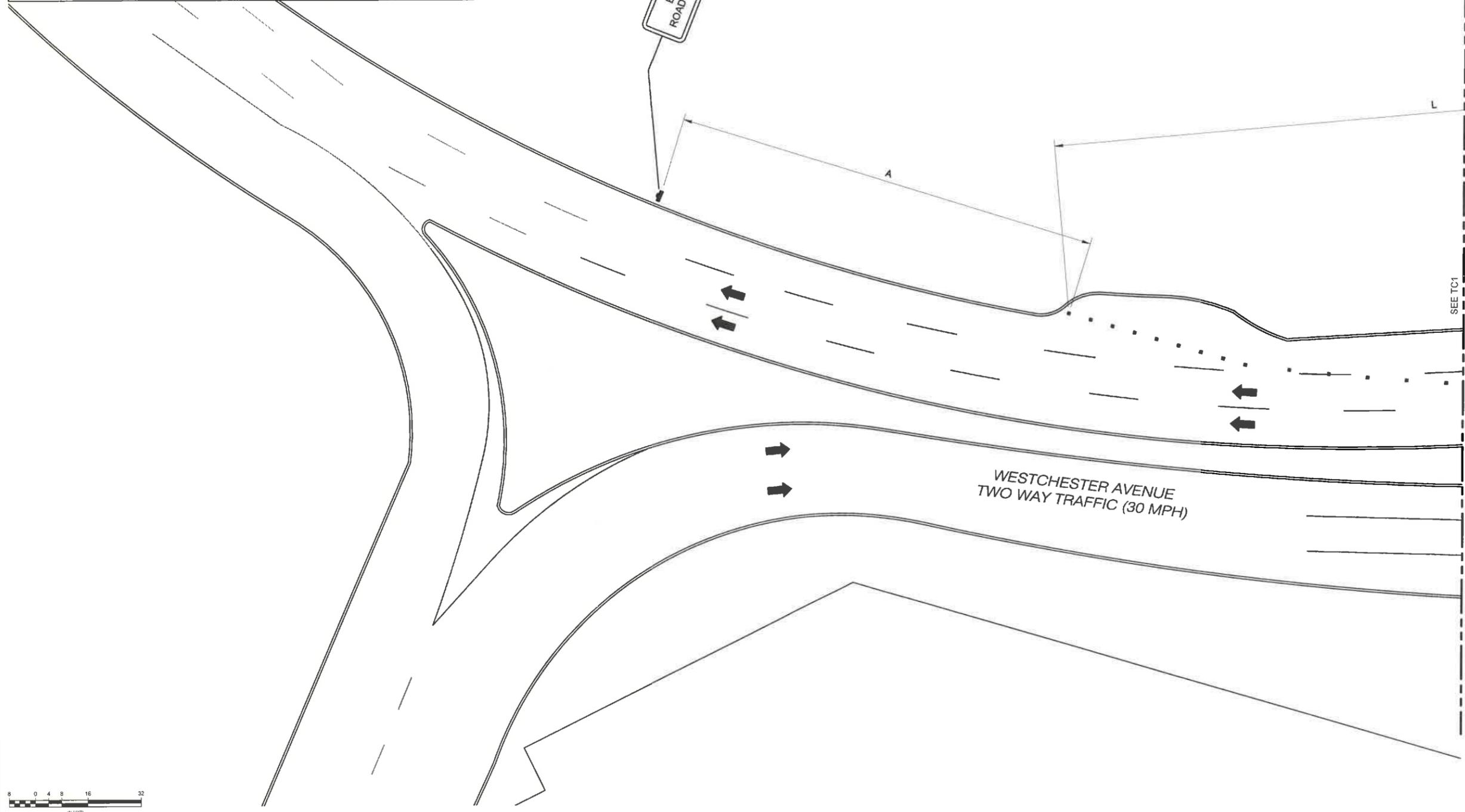
Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (30 MPH)	10	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	35	200	200	200		
URBAN HIGH (45 MPH)	45	350	350	350	1500 FT.	AHEAD
RURAL		500	500	300	1500 FT.	1000 FT.
Expressway (Freeway)		1000	1500	2400	1 MILE	1/2 MILE

TABLE 1.3: BUFFER SPACES

SPEED*	BUFFER SPACES
25	155 (-4 Slip Lanes)
30	200 (-5 Slip Lanes)
35	250 (-6 Slip Lanes)
40	305 (-8 Slip Lanes)
45	345 (-9.5 Slip Lanes)
50	425 (-11 Slip Lanes)
55	495 (-13 Slip Lanes)
65	645 (-16 Slip Lanes)



To be setup in accordance with TAST-C5 of the WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 1)

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB

KMB DESIGN GROUP
 kmbdg.com
 1800 ROUTE 34, SUITE 209
 WALL, NJ 07719
 (732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER: **321.5002.Z03**

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

DESIGN TYPE: **WST_WHP_N003**

DESIGN TYPE: **LIGHT POLE**

SHEET TITLE: **VEHICULAR TRAFFIC CONTROL PLAN**

SHEET NUMBER: **TC1C** REV: **4**

K:\321_Verizon_321.5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small_Cad\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:28 PM, dchlechter

UNIVERSITY OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS, UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

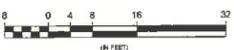
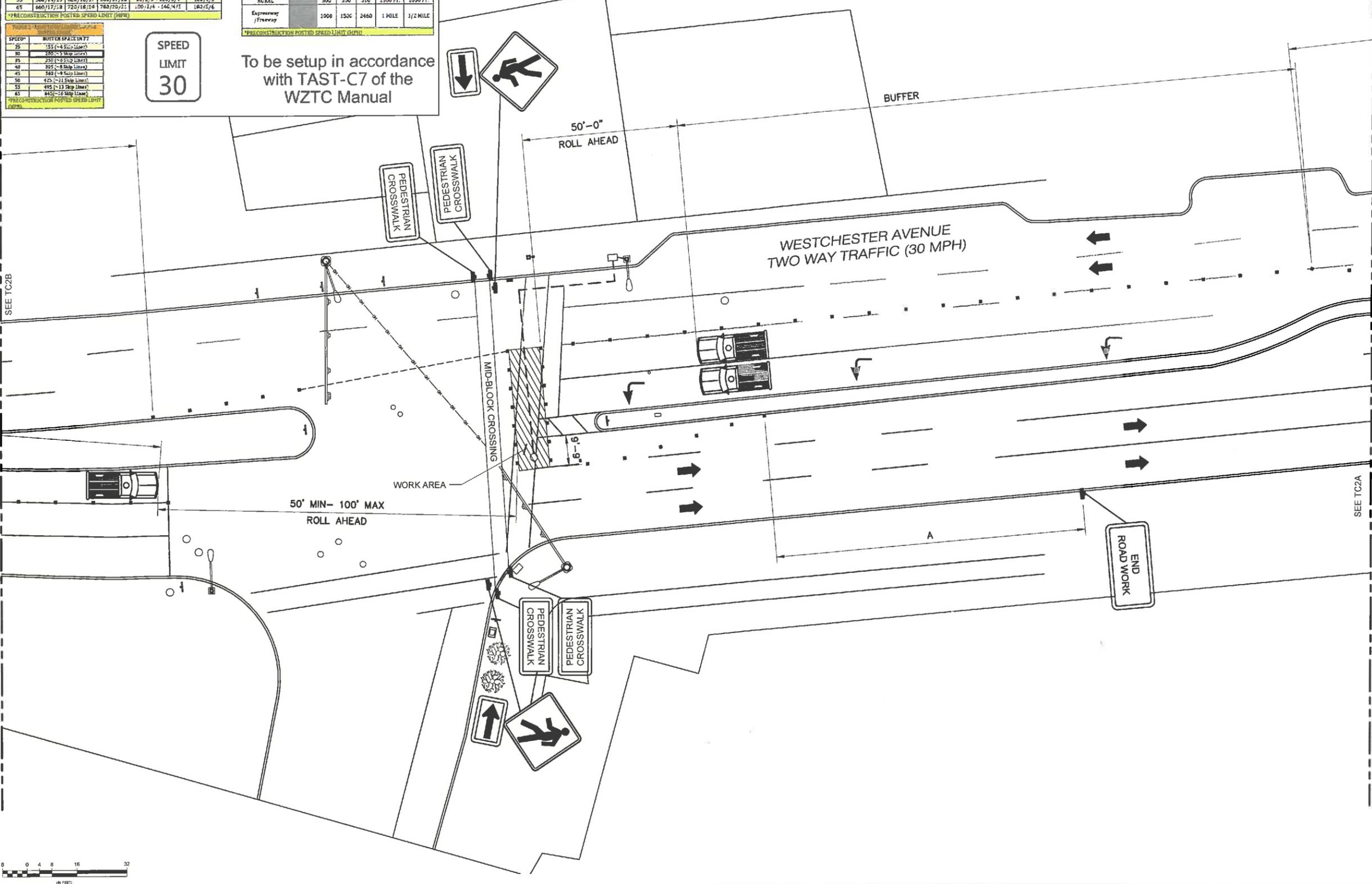
SPEED*	LANE TAPER: 1:4 ON FT. # SKIP LINES, # OF CONES			SHOULDER TAPER: 1:2 (IN FT.) # SKIP LINES, # OF CONES		
	10 FT	11 FT	12 FT	Length: 8 FT (50' - 100')	Length: 8 FT (50' - 100')	Length: 8 FT (50' - 100')
25	120/3/4	120/3/4	140/3/5	20/1/2	40/1/2	40/1/2
30	120/4/5	180/3/6	180/3/6	22/1/2	45/1/2	45/1/2
35	210/5/7	240/6/7	250/7/8	40/1/2	60/1/3	60/1/3
40	280/7/8	300/8/9	320/8/9	40/1/2	60/1/3	60/1/3
45	460/12/12	500/13/13	540/14/14	60/2/3	100/3/4	120/3/4
50	500/13/14	550/14/15	600/15/15	60/2/3	100/3/4	140/4/5
55	560/14/15	620/16/17	660/17/18	80/2/3	120/3/4	160/4/5
65	660/17/18	720/18/19	780/20/21	100/3/4	140/4/5	180/5/6

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (≤10 MPH)	30	100	180	100	AHEAD	AHEAD
URBAN (11-40 MPH)	35	200	200	200		
URBAN HIGH (41-50 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	55	500	500	500	1500 FT.	1000 FT.
Expressway / Freeway	65	1000	1500	2460	1 POLE	1/2 MILE

SPEED*	BUFFER SPACE IN FT.
25	155 (~4 Skip Lines)
30	200 (~5 Skip Lines)
35	230 (~6 Skip Lines)
40	305 (~8 Skip Lines)
45	340 (~9 Skip Lines)
50	425 (~11 Skip Lines)
55	495 (~13 Skip Lines)
65	645 (~16 Skip Lines)



To be setup in accordance with TAST-C7 of the WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 2)

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
VEHICULAR
TRAFFIC CONTROL PLAN

SHEET NUMBER: **TC2** REV: **4**

K:\321_Verizon_321-5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:29 PM, dschecter

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

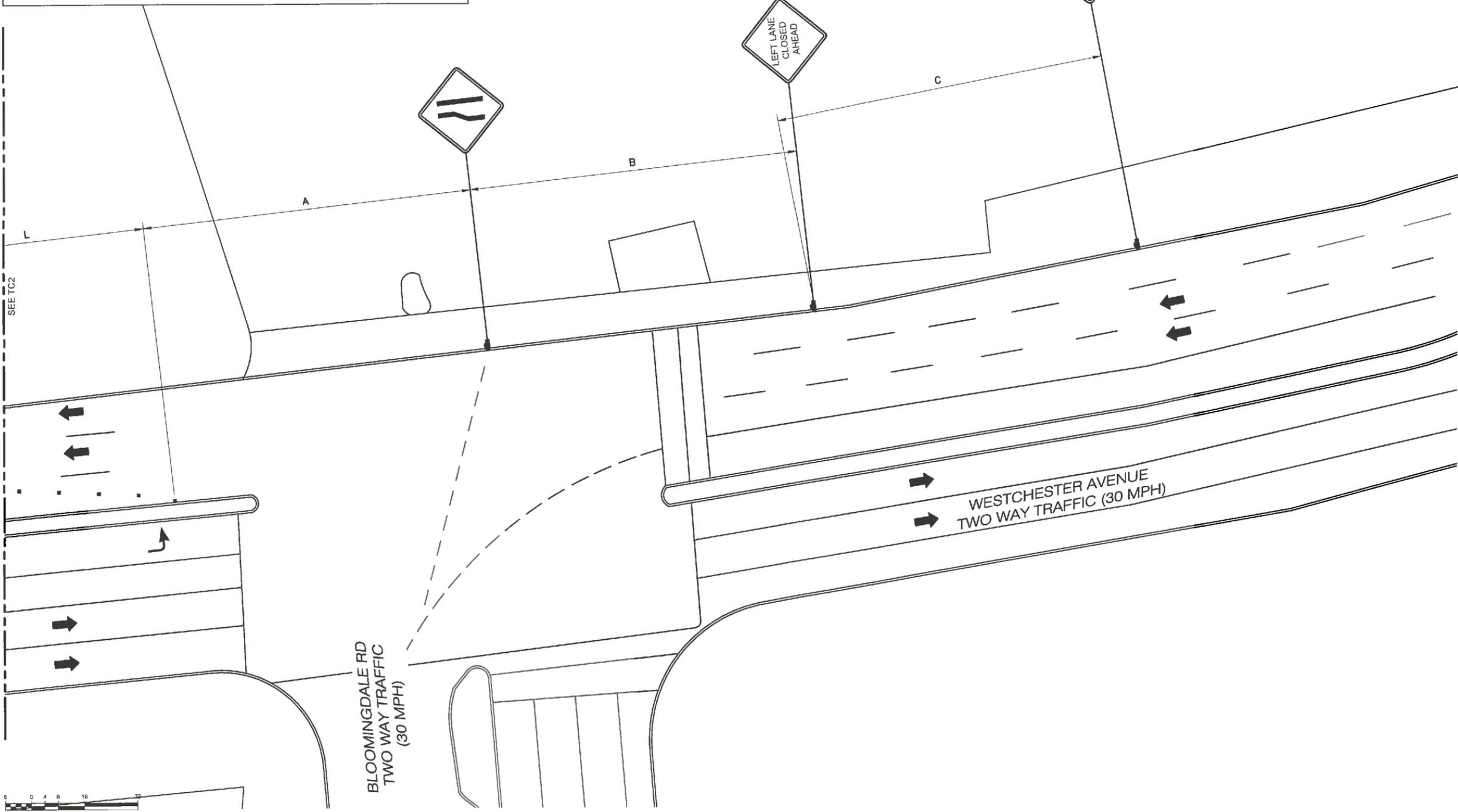
SPEED*	LANE TAPER - 1 (IN FT.) # OF SLIP LANE / # OF LANES			SLOTTED TAPER - 1, 2 (IN FT.) # OF SLIP LANE / # OF LANES		
	10 FT	31 FT	52 FT	Less than 5 FT (MIN - MAX)	5 FT OR WIDER (MIN)	8 FT OR WIDER (MIN)
25	120/3/4	120/3/4	149/3/5	20/2/2	40/1/2	40/1/2
30	150/4/5	180/5/6	180/5/6	15/2/2	45/2/2	45/2/2
35	225/7/7	240/7/7	250/7/8	40/1/2	60/2/2	80/2/2
40	280/7/8	300/8/9	322/8/9	45/2/2	60/2/2	85/2/2
45	460/12/12	500/12/13	510/14/14	60/2/2	100/3/4	120/3/4
50	500/13/14	560/14/15	600/15/15	80/2/2	100/3/4	140/4/5
55	540/14/15	620/16/17	660/17/18	80/2/2	120/3/4	160/4/5
65	640/17/18	720/18/19	780/20/21	100/3/4	140/4/5	180/5/6

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A	B	C	XX	YY
URBAN LOW (≤ 30 MPH)	30	100	150	100	AHEAD	AHEAD
URBAN (35-40 MPH)	40	200	200	200		
URBAN HIGH (45-55 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	50	500	500	500	1500 FT.	1000 FT.
Expressway / Freeway	65	1000	1500	2400	1 MILE	1/2 MILE

SPEED*	BUFFER SPACE IN FT. FOR SIGNAGE	
	10 FT	31 FT
25	155	(4 Slip Lanes)
30	200	(3 Slip Lanes)
35	250	(3 Slip Lanes)
40	335	(3 Slip Lanes)
45	345	(3 Slip Lanes)
50	425	(3 Slip Lanes)
55	495	(3 Slip Lanes)
65	645	(3 Slip Lanes)



To be setup in accordance with TAST-C7 of the WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 2)
 11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-26-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-16-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
 PROFESSIONAL ENGINEER
 NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
 70 WESTCHESTER AVENUE
 WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
 LIGHT POLE

SHEET TITLE:
 VEHICULAR
 TRAFFIC CONTROL PLAN

SHEET NUMBER:
TC2A REV.:
4

K:\321_Verizon\321.5000_SQUAN\321.5002.Z03_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:30 PM, dschlechter

CONSENT TO DOCUMENT: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE REPRODUCED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

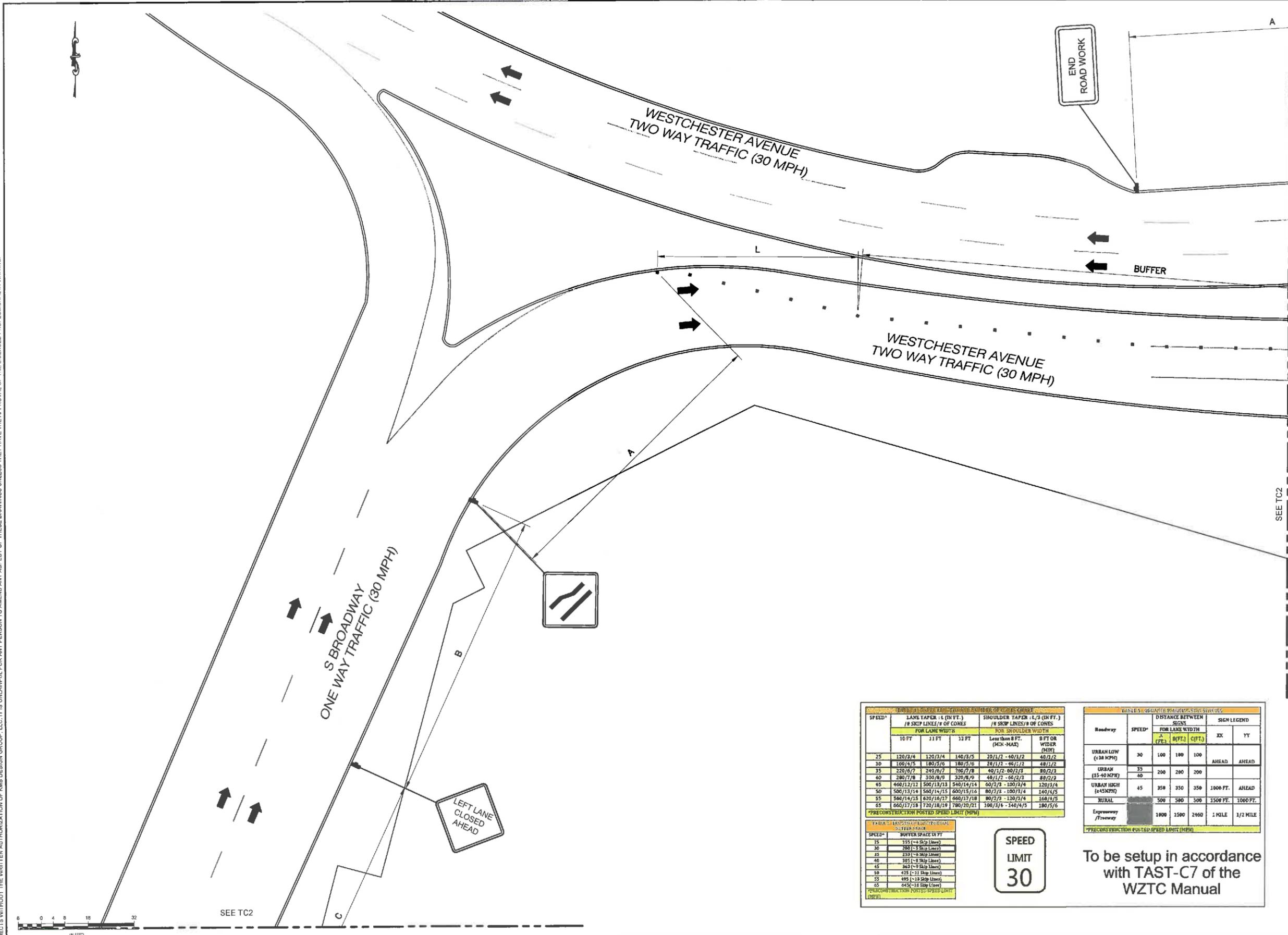


TABLE 1 - SLOPE OF CONES - MINIMUM NUMBER OF CONES CHECK

SPEED*	LANE TAPER - L (IN FT.) / # SKIP LINES / # OF CONES			SHOULDER TAPER - L / B (IN FT.) / # SKIP LINES / # OF CONES	
	FOR LANE WIDTHS			FOR SHOULDER WIDTH	
	10 FT	11 FT	12 FT	Less than 8 FT. (MIN - MAX)	8 FT OR WIDER (MIN)
25	120/3/4	120/3/4	140/3/5	20/1/2 - 40/1/2	40/2/2
30	160/4/5	160/3/6	180/3/6	15/1/2 - 40/2/2	40/2/2
35	220/6/7	240/6/7	260/7/8	40/1/2 - 60/2/3	80/2/3
40	280/7/8	300/8/9	320/8/9	40/1/2 - 60/2/3	80/2/3
45	400/12/12	500/13/13	540/14/14	60/2/3 - 100/3/4	120/3/4
50	500/13/14	560/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	560/14/15	620/16/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	1600/17/18	1700/18/19	1800/20/21	100/3/4 - 140/4/5	180/5/6

*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

TABLE 2 - BUFFER SPACE

SPEED*	BUFFER SPACE IN FT
25	155 (-4 Slip Lane)
30	200 (-5 Slip Lane)
35	250 (-6 Slip Lane)
40	305 (-8 Slip Lane)
45	360 (-9 Slip Lane)
50	435 (-11 Slip Lane)
55	495 (-13 Slip Lane)
65	645 (-18 Slip Lane)

*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

TABLE 3 - ADVANCE WARNING SIGN SPACING

Roadway	SPEED*	DISTANCE BETWEEN SIGNS FOR LANE WIDTH			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (< 30 MPH)	30	100	100	100	AHEAD	AHEAD
	40	200	200	200		
URBAN (35-40 MPH)	35	200	200	200		
URBAN HIGH (45-55 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.	
Expressway / Freeway	1000	1500	2400	1 MILE	1/2 MILE	

*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)



To be setup in accordance with TAST-C7 of the WZTC Manual



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	05-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION: NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER: **321.5002.Z03**

SITE INFORMATION:
**70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601**

WST_WHP_N003

DESIGN TYPE: **LIGHT POLE**

SHEET TITLE: **VEHICULAR
TRAFFIC CONTROL PLAN**

SHEET NUMBER: **TC2B** REV: **4**

1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 2)

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

K:\321_Verizon\321.5002_SQUAN\321.5002_White Plains\321.5002.Z03_Small_Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg, 4/5/2022 3:31:32 PM, dbray

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

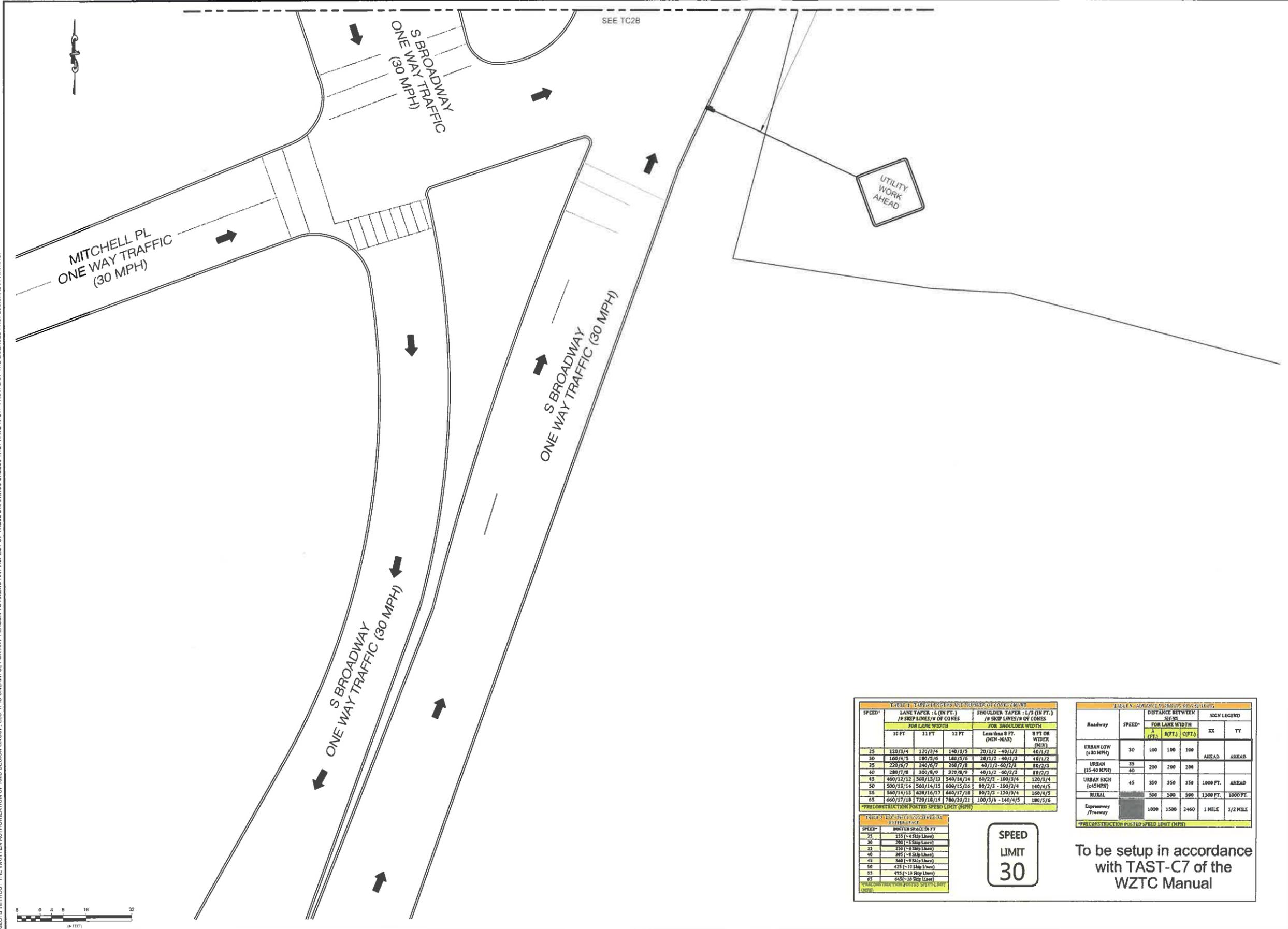


TABLE 1: TAPER LENGTHS AND NUMBER OF CONES

SPEED*	LANE TAPER : L (IN FT.) / # SKIP LINES / # OF CONES			SHOULDER TAPER : L/S (IN FT.) / # SKIP LINES / # OF CONES	
	FOR LANE WIDTH			FOR SHOULDER WIDTH	
	16 FT	11 FT	12 FT	Less than 8 FT. (MIN-MAX)	8 FT OR WIDER (MIN)
25	120/3/4	120/3/4	140/3/5	20/2/2 - 49/1/2	40/1/2
30	160/4/5	180/5/6	180/5/6	28/2/2 - 49/1/2	49/1/2
35	220/6/7	240/7/8	260/7/8	40/1/2 - 60/2/3	80/2/3
40	280/7/8	300/8/9	320/8/9	40/1/2 - 60/2/3	80/2/3
45	400/12/12	500/13/13	540/14/14	60/2/3 - 100/3/4	120/3/4
50	500/13/16	560/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	560/14/15	620/16/17	660/17/18	80/2/3 - 100/3/4	160/4/5
65	660/17/18	720/18/19	780/19/21	100/3/4 - 140/4/5	180/5/6

TABLE 2: LANE WIDTHS AND CONCRETE SURFACE

SPEED*	MIN LANE SPACE IN FT
25	155 (-4 Slip Lane)
30	200 (-5 Slip Lane)
35	250 (-8 Slip Lane)
40	305 (-8 Slip Lane)
45	340 (-9 Slip Lane)
50	425 (-11 Slip Lane)
55	475 (-13 Slip Lane)
65	645 (-16 Slip Lane)

SPEED LIMIT 30

TABLE 3: ADVANCE WARNING SIGN SPACING

Roadway	SPEED*	DISTANCE BETWEEN SIGNS FOR LANE WIDTH			SIGN LEGEND	
		A (FT)	B (FT)	C (FT)	XX	TY
URBAN LOW (40 MPH)	30	100	100	100	AHEAD	AHEAD
	35	200	200	200		
URBAN (35-40 MPH)	40	200	200	200		
	45	350	350	350	1000 FT.	AHEAD
URBAN HIGH (45 MPH)	45	350	350	350	1000 FT.	AHEAD
	50	500	500	500	1500 FT.	1000 FT.
RURAL		500	500	500	1500 FT.	1000 FT.
Expressway / Freeway		1000	1500	2400	1 MILE	1/2 MILE

To be setup in accordance with TAST-C7 of the WZTC Manual



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	DBS	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-28-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
NY LICENSE: 086064 4/5/22

PROJECT NUMBER: **321.5002.Z03**

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE: **LIGHT POLE**

SHEET TITLE:
VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER: **TC2C** REV.: **4**

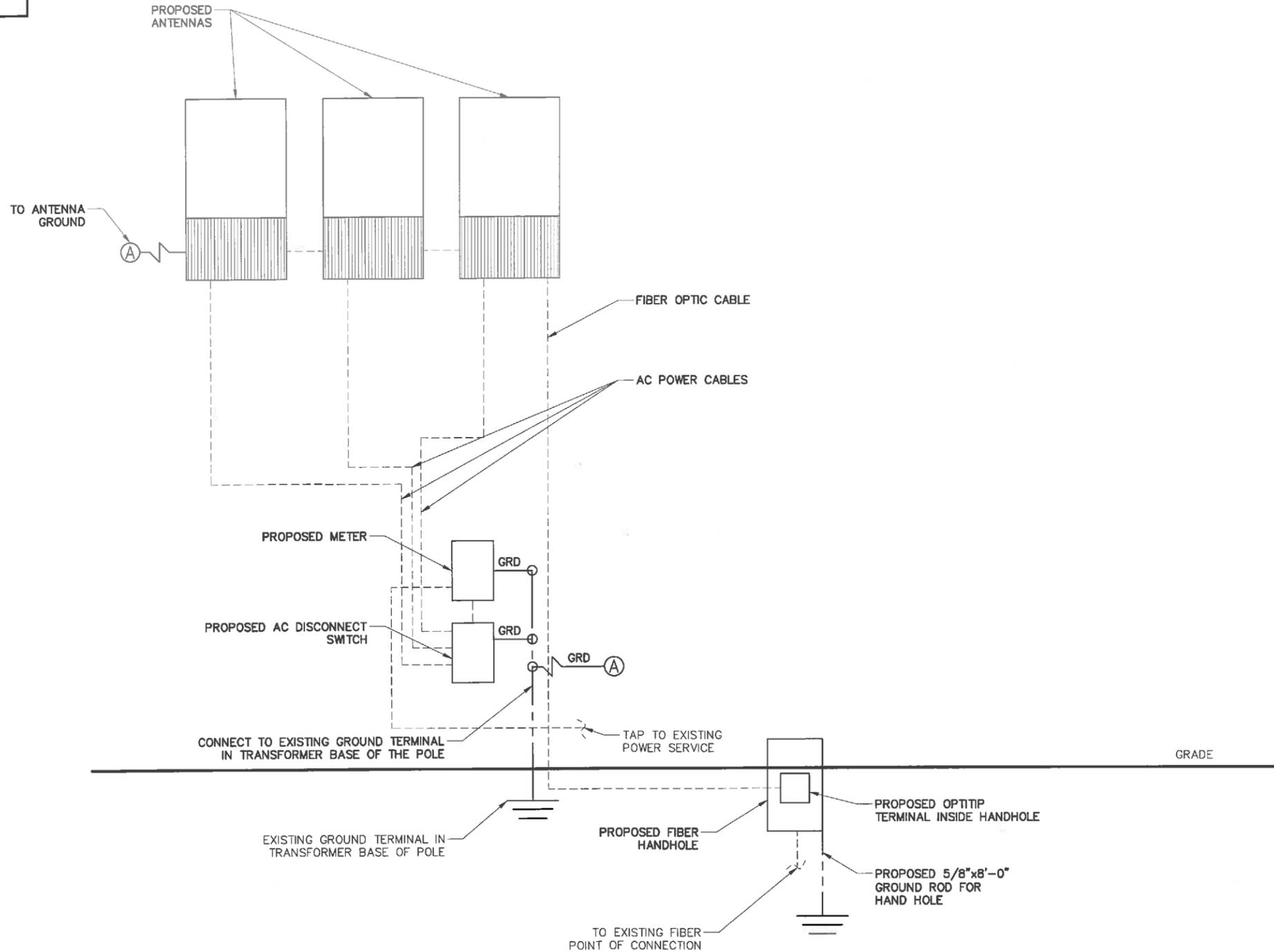
1 VEHICULAR TRAFFIC CONTROL PLAN (PHASE 2)

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

K:\321_Verizon\321.5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.TC1.dwg - 4/5/2022 3:31:33 PM dschlechter

NOTES:

1. WIRING DIAGRAM IS FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
2. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.
3. CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION.
4. ALL RGS TO BE GROUNDED AT BOTH ENDS USING GROUNDING BUSHINGS.
5. GROUND WIRE TO BE RUN IN 1/2" SCHEDULE 40 PVC.



OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KMB DESIGN GROUP, LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF KMB DESIGN GROUP, LLC. IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS UNLESS THEY HAVE THE APPROVAL OF THE LICENSED PROFESSIONAL IN WRITING.

1 WIRING DIAGRAM

SCALE: NTS



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
4	04-05-22	ISSUED AS FINAL	D65	JRB
3	02-15-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	08-26-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-18-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER

NY LICENSE: 086064 4/5/22

PROJECT NUMBER:
321.5002.Z03

SITE INFORMATION:
70 WESTCHESTER AVENUE
WHITE PLAINS, NY 10601

WST_WHP_N003

DESIGN TYPE:
LIGHT POLE

SHEET TITLE:
WIRING
DIAGRAM

SHEET NUMBER:
E01

REV.:
4

K:\321_5000_SQUAN\321.5002_White Plains\321.5002.Z03_Small Cell\321.5002.Z03_CAD\321.5002.Z03_Construction\321.5002.Z03.E01.dwg, 4/5/2022 3:31:40 PM, dschlechter