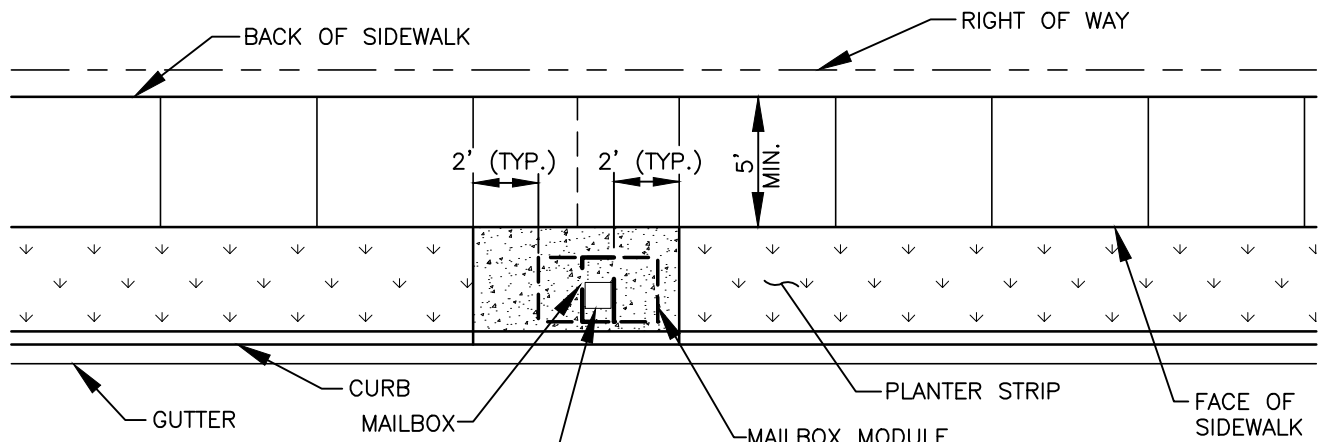
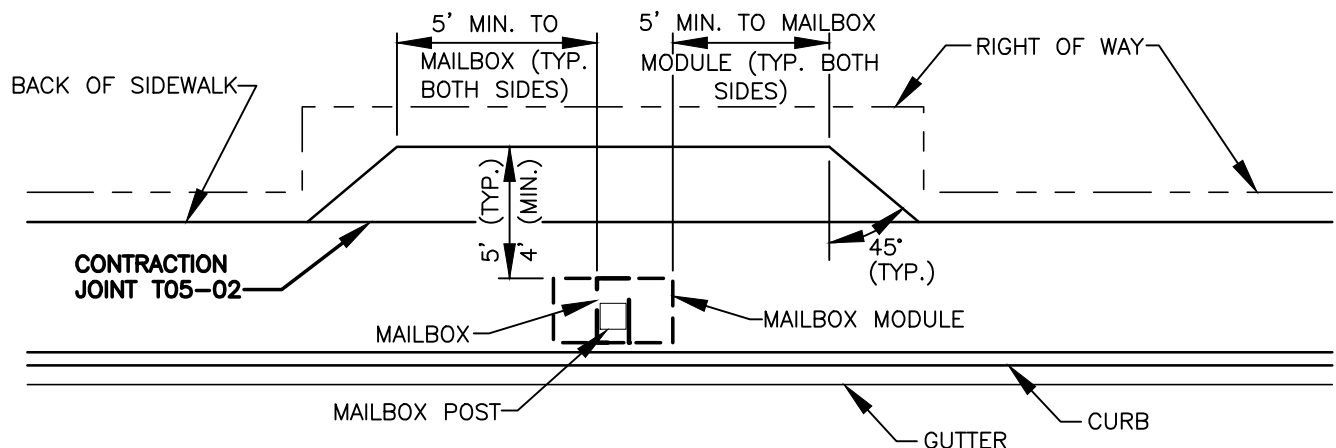
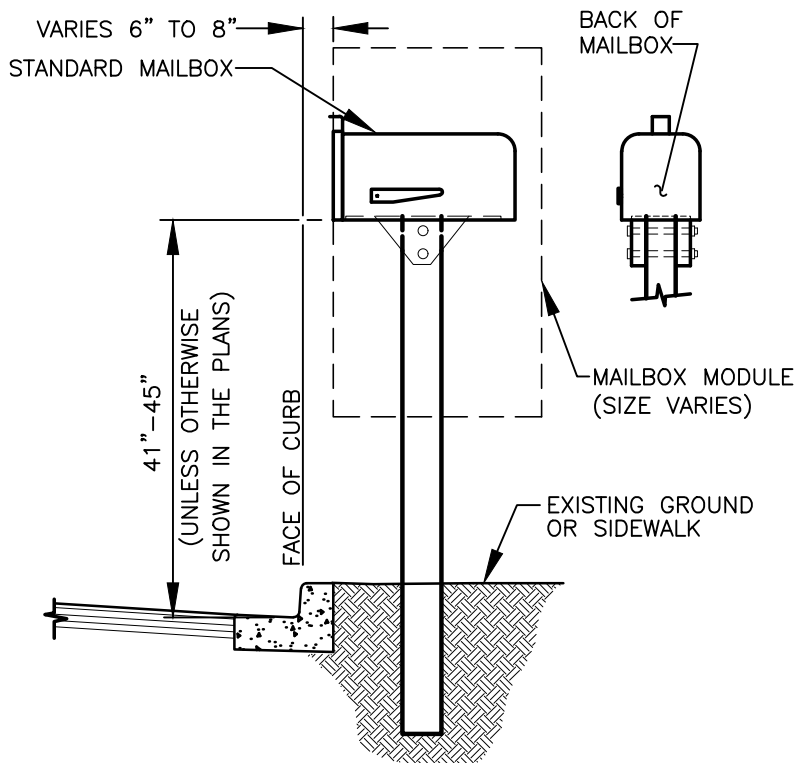




MAILBOX IN PLANTER STRIP



MAILBOX IN SIDEWALK



NOTES:

1. SEE WSDOT STANDARD PLAN H-70.10-xx TO H-70.30-xx FOR MAILBOX, POST, BRACKET AND OTHER INSTALLATION DETAILS.
2. MAILBOXES MUST BE POSTMASTER APPROVED.
3. LOCATION OF MAILBOXES ARE SUBJECT TO APPROVAL BY ENGINEER FOR ACCESS AND SIGHT DISTANCE REQUIREMENTS SEE **INTERSECTION SIGHT DISTANCE REQUIREMENTS DETAIL T04-03** AND **VISION CLEARANCE TRIANGLE DETAIL T04-04**.
4. INSTALL EXPANSION JOINT MATERIAL AROUND MAILBOX POST WHEN SET IN SIDEWALK.
5. EXTEND SIDEWALK JOINTS THROUGH WIDENED SIDEWALK SECTION.
6. RESIDENTIAL ACCESS TO MODULE MAILBOX WILL BE ON SIDEWALK SIDE.

I:\CITYAPPS\AUTOCAD\STD_DETAILS\DRAWING_FILES\T07-01

REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	8/04	RAW	MHA	
2	3/06	RAW	MHA	
3	2/07	RAW	MHA	
4	8/08	RAW	MHA	
5	7/14	RAW	MHA	
6	9/21	RAW	MHA	

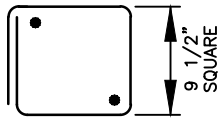
APPROVED BY: *M. H. Pedraza*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
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TYPICAL MAILBOX
PLACEMENT

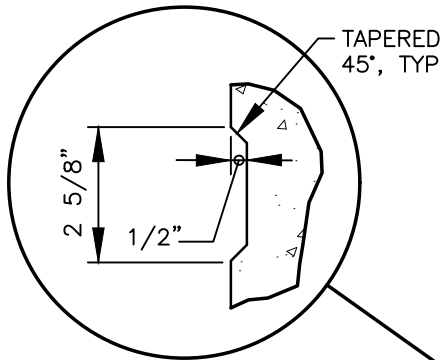
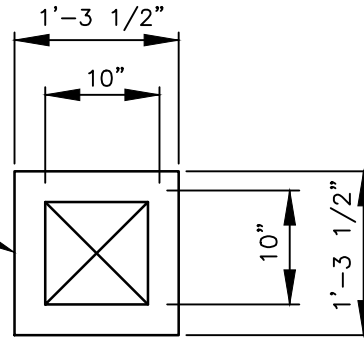
STANDARD PLAN
NUMBER

T07-01



1-#4 BAR WRAPPED

FOOTING



TAPERED
45°, TYP

6" DIA. CIRCLE RECESSED

3/4" SCH. 40 STEEL PIPE, 1.05" O.D. x 4'-0".
PRECAST 2'-0" INTO BOLLARD

4-#4 BAR TYP HOLD IN 2" ALL SIDES

CONCRETE WITH SAND BLAST FINISH

SEE PLANS FOR TYPE OF MATERIAL

EXPANSION JOINT T05-02

2-5/8" INSIDE TAPERED

3"

3"

4"

POUR TOP OF FOOTING
LEVEL WITH FINISH GRADE,
WITH SMOOTH TROWEL
FINISH AND WITH 1/4"
RADIUS EDGES

EPOXY BOND UNDER BOLLARD (TYP.)

1-#4 BAR WRAPPED (SEE DETAIL ABOVE)

1 1/4" SCH. 80 PVC PIPE SLEEVE,
(1.278" I.D.) x 2'-6". INSTALL TRUE VERTICAL

2-#4 BAR X 2'-0"

3" CLEAR

4" MIN. DEPTH CRUSHED
SURFACING TOP COURSE

COMPACT SUBGRADE AND CRUSHED
SURFACING TOP COURSE TO 95%
MAXIMUM DRY DENSITY

NOTE:

BOLLARD IS DESIGNED TO BE FIXED BUT REPLACEABLE. FOR REMOVABLE BOLLARD, OMIT EPOXY BOND.

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REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	3/06	RAW	MHA	
2	2/07	RAW	MHA	
3	8/08	RAW	MHA	
4	7/14	RAW	MHA	
5	4/18	RAW	MHA	
6	9/21	RAW	MHA	

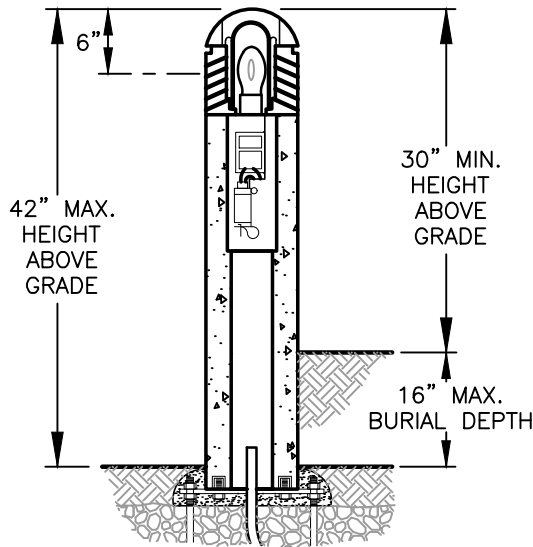
APPROVED BY: *M.H. Pedraza*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
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PRECAST CONCRETE
BOLLARD

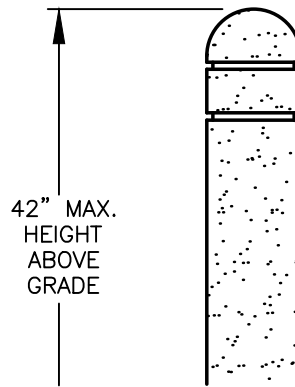
STANDARD PLAN
NUMBER

T07-02



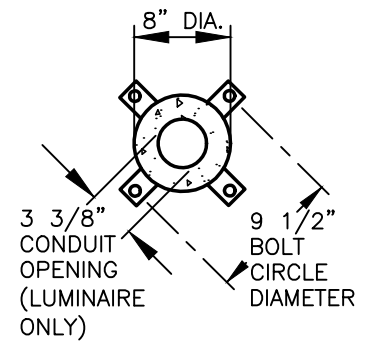
SINGLE FUNCTION LUMINAIRE

CONCRETE SHAFT



BOLLARD

CONCRETE SHAFT



BASE PLAN

NOTES:

- CERTIFICATION SHALL BE UNDERWRITERS LABORATORIES LISTED FOR 120 AND 240 VOLT WET LOCATIONS.
- TOP CAP SHALL BE A ONE PIECE ALUMINUM CASTING 3/16" MINIMUM THICKNESS, SECURED TO LOUVERS BY CONCEALED ALLEN SCREWS IN KEYHOLE SLOTS. FOR RE-LAMPING ACCESS, ALLEN SCREWS SHALL NOT REQUIRE COMPLETE REMOVAL.
- LOUVERS SHALL BE A ONE PIECE ALUMINUM CASTING WITH VERTICAL SUPPORT RIBS AT 90° INTERVALS. HORIZONTAL LOUVER BLADES SHALL HAVE A 1 3/4" DEPTH, A 65° UPWARD PITCH AND PROVIDE LIGHT SOURCE CUTOFF ABOVE HORIZONTAL. LOUVER CASTING SHALL BE SECURED TO SHAFT BY FOUR INTERNAL TIE RODS.
- LAMP ENCLOSURE SHALL BE ONE PIECE TEMPERED MOLDED GLASS WITH INTERNAL FLUTES AND FULL GASKETING AT BOTTOM EDGE.
- SOCKET SHALL BE PORCELAIN MEDIUM BASE RATED 4KV.
- FIXTURE HEAD SHALL ALLOW FLOW-THROUGH VENTILATION AROUND AND ABOVE THE LAMP ENCLOSURE.
- SHAFT CEMENT SHALL CONFORM TO CURRENT SPECIFICATIONS FOR "PORTLAND CEMENT." ASTM C150, TYPE I OR II. AGGREGATES SHALL MEET CURRENT REQUIREMENTS OF "SPECIFICATIONS FOR CONCRETE AGGREGATES," ASTM C33. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF SILT, OIL, ACIDS, ALKALIES OR ORGANIC MATERIALS. WIRE FOR REINFORCEMENT SHALL CONFORM TO ASTM A185. STEEL FOR LUGS AND PLATES SHALL CONFORM TO ASTM A36, OR A283 GRADE D.
- BALLAST SHALL BE HIGH POWER FACTOR FOR -20°F STARTING, FACTORY MOUNTED TO A RIGID HARNESS FOR FIELD WIRING AND SUSPENSION FROM FIXTURE WITHIN THE CONCRETE SHAFT.
- ANCHOR BOLTS SHALL BE FOUR 3/8" X 10" + 2" ZINC PLATED L-HOOKS, EACH WITH TWO NUTS, WASHERS AND A RIGID PRESSED BOARD TEMPLATE.
- FINISH SHALL BE T.G.I.C. THERMOSET POLYESTER POWDER-COAT PAINT APPLIED OVER A CHROMATE CONVERSION COATING. NATURAL GRAY SHALL BE USED FOR THE CONCRETE COLOR FINISH. LUMINAIRE FINISH SHALL BE BLACK.
- SURFACE SHALL BE MEDIUM SAND-BLASTED WITH ANTI-GRAFFITI SEALER. COLOR SHALL BE NATURAL GRAY OR INTEGRAL IN CONCRETE MIX.
- CURE AND STRENGTH SHALL ALLOW FOR COMPLETION OF THE HYDRATION PROCESS, AND RESULT IN A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 4,500 PSI.
- MANUFACTURE SHALL BE BY FIBERGLASS MOLDS TO INSURE UNIFORM PARTS. MOLD PARTING LINES MAY BE SLIGHTLY VISIBLE IN FINISHED PARTS.
- ANCHORAGE SHALL BE BY FOUR STEEL MOUNTING TABS FOR INSTALLATION ON FOUR 1/2" X 10" + 2" ZINC ELECTROPLATED L-HOOK ANCHOR BOLTS. EACH ANCHOR BOLT IS SUPPLIED WITH TWO NUTS, TWO WASHERS, AND A RIGID PRESSED BOARD TEMPLATE.
- ELECTRICAL MODULE SHALL BE 100 WATT COATED 120 LINE VOLTS, 129 LINE WATTS AND 1.15 MAX. AMPS.
- SHIPMENT SHALL BE PALLETIZED WITH ADEQUATE HOLD-DOWNS TO PREVENT LOAD MOVEMENT IN TRANSIT.
- KIM LIGHTING MODEL. SEE CITY'S APPROVED PRODUCTS LIST FOR PART NUMBER.**
- SEE **TYPICAL CONNECTING PUBLIC STREET WITH PATHWAYS AND LIGHTING DETAIL T07-03B** FOR ADDITIONAL INFORMATION.

REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	2/07	RAW	CJC	
2	8/08	RAW	CJC	
3	2/07	RAW	CJC	
4	4/18	RAW	CJC	
5	9/21	RAW	CJC	

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021

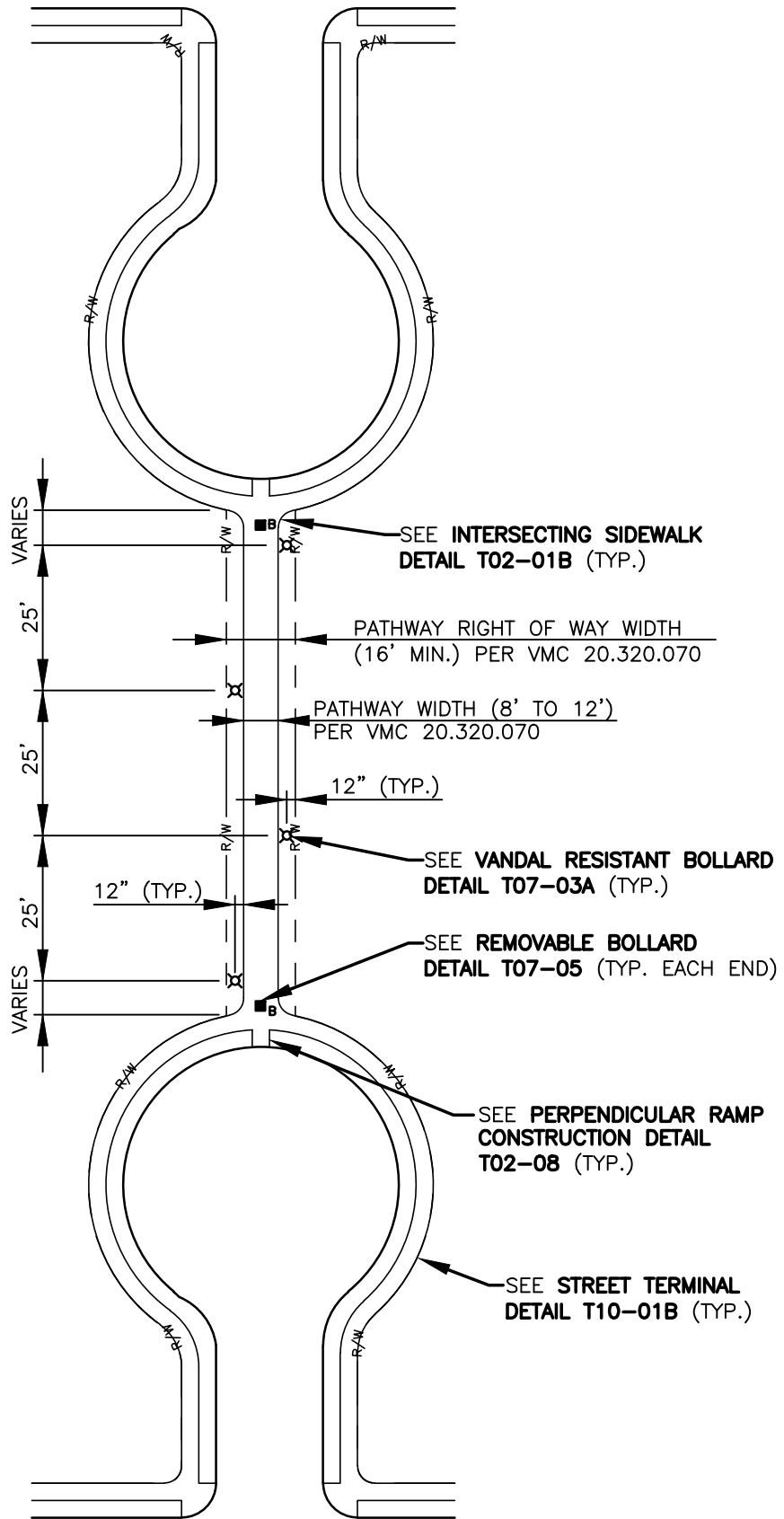
CITY OF
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VANDAL RESISTANT
BOLLARD (LIGHTED
AND NON-LIGHTED)

STANDARD PLAN
NUMBER

T07-03A

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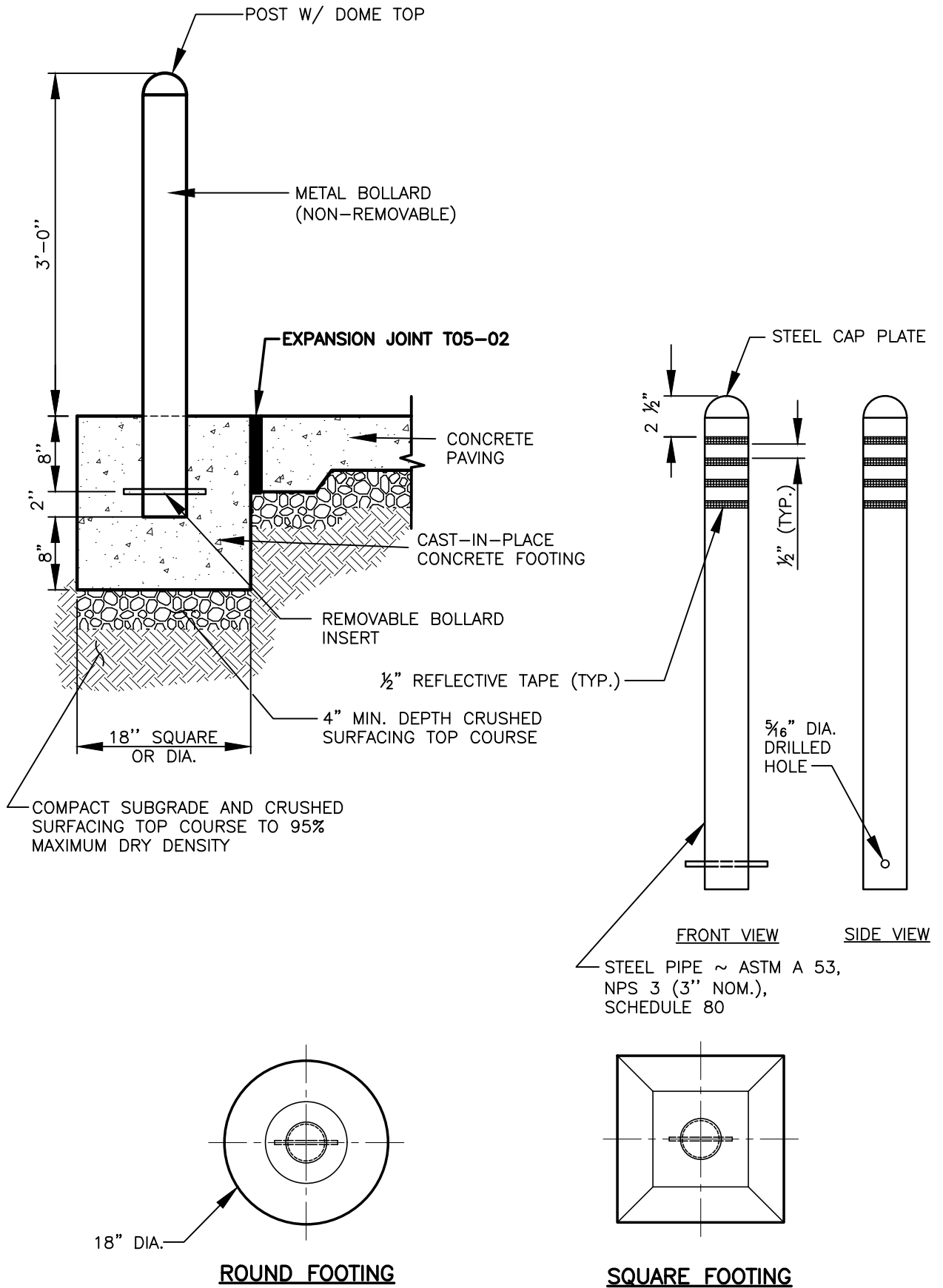


REV NO.	DATE	BY	APPR	PUBLIC WORKS – STREETS AND TRANSPORTATION
1	2/07	RAW	CJC	
2	8/08	RAW	CJC	
3	1/15	RAW	CJC	
4	9/21	RAW	CJC	
APPROVED BY: <i>[Signature]</i>				TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021				

CITY OF
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WASHINGTON

TYPICAL CONNECTING
PUBLIC STREET WITH
PATHWAYS AND LIGHTING

STANDARD PLAN
NUMBER
T07-03B



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REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	3/06	RAW	MHA	
2	2/07	RAW	MHA	
3	8/08	RAW	MHA	
4	7/14	RAW	MHA	
5	4/18	RAW	MHA	
6	9/21	RAW	MHA	

APPROVED BY: *M. H. Pedraza*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
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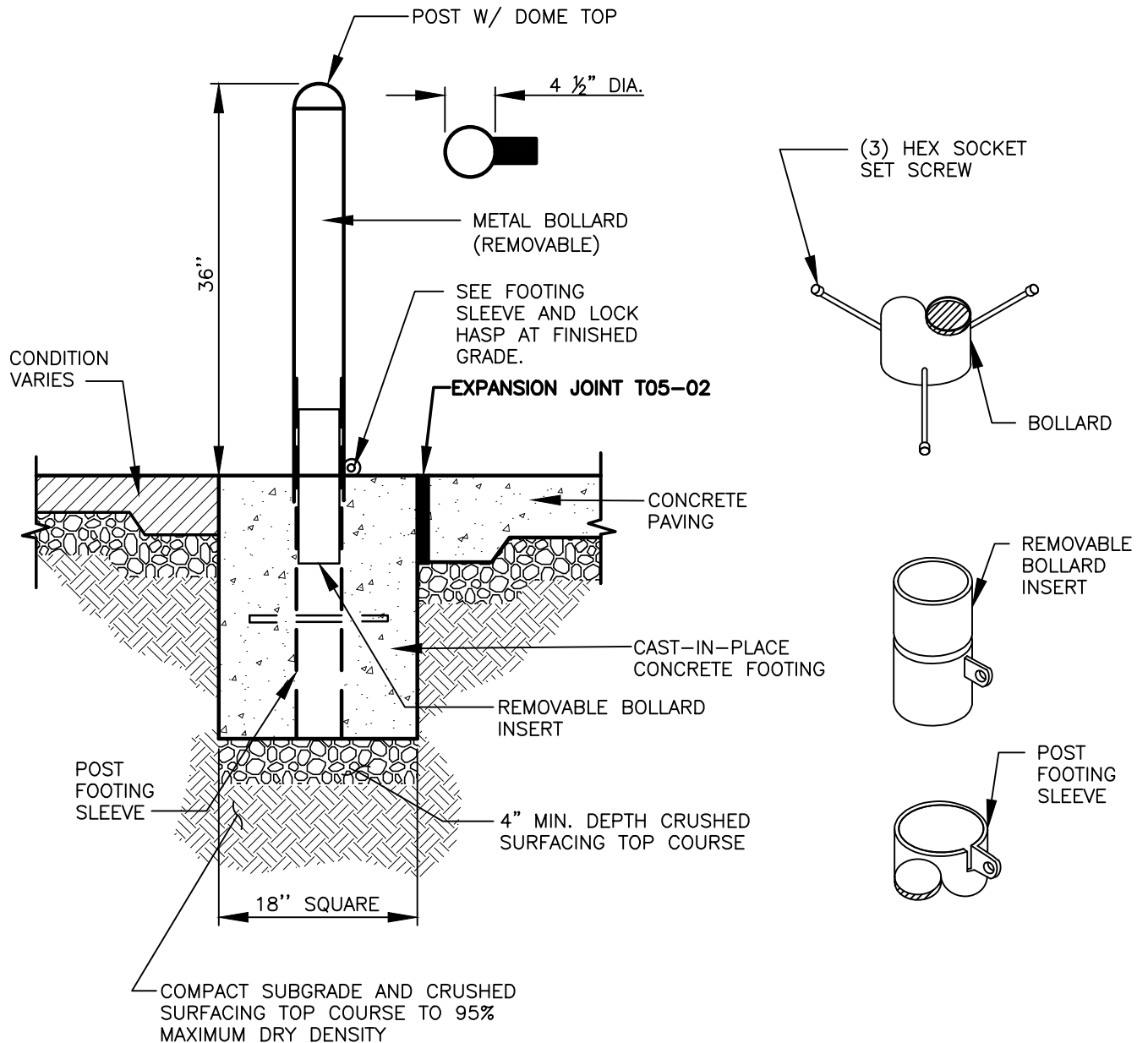
TYPE 2 BOLLARD

STANDARD PLAN NUMBER

T07-04

INSTALLATION SEQUENCE

1. DIG FOOTING HOLE AND SET POST FOOTING SLEEVE PLUMB AND SQUARE IN CONCRETE.
2. INSERT REMOVABLE BOLLARD INSERT INTO BOLLARD.
3. TIGHTEN HEX SOCKET SET SCREWS.
4. SET THE BOLLARD AND REMOVABLE BOLLARD INSERT INTO THE POST FOOTING SLEEVE.



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REV NO.	DATE	BY	APPR	PUBLIC WORKS – STREETS AND TRANSPORTATION
1	3/06	RAW	MHA	
2	2/07	RAW	MHA	
3	8/08	RAW	MHA	
4	7/14	RAW	MHA	
5	4/18	RAW	MHA	
6	9/21	RAW	MHA	

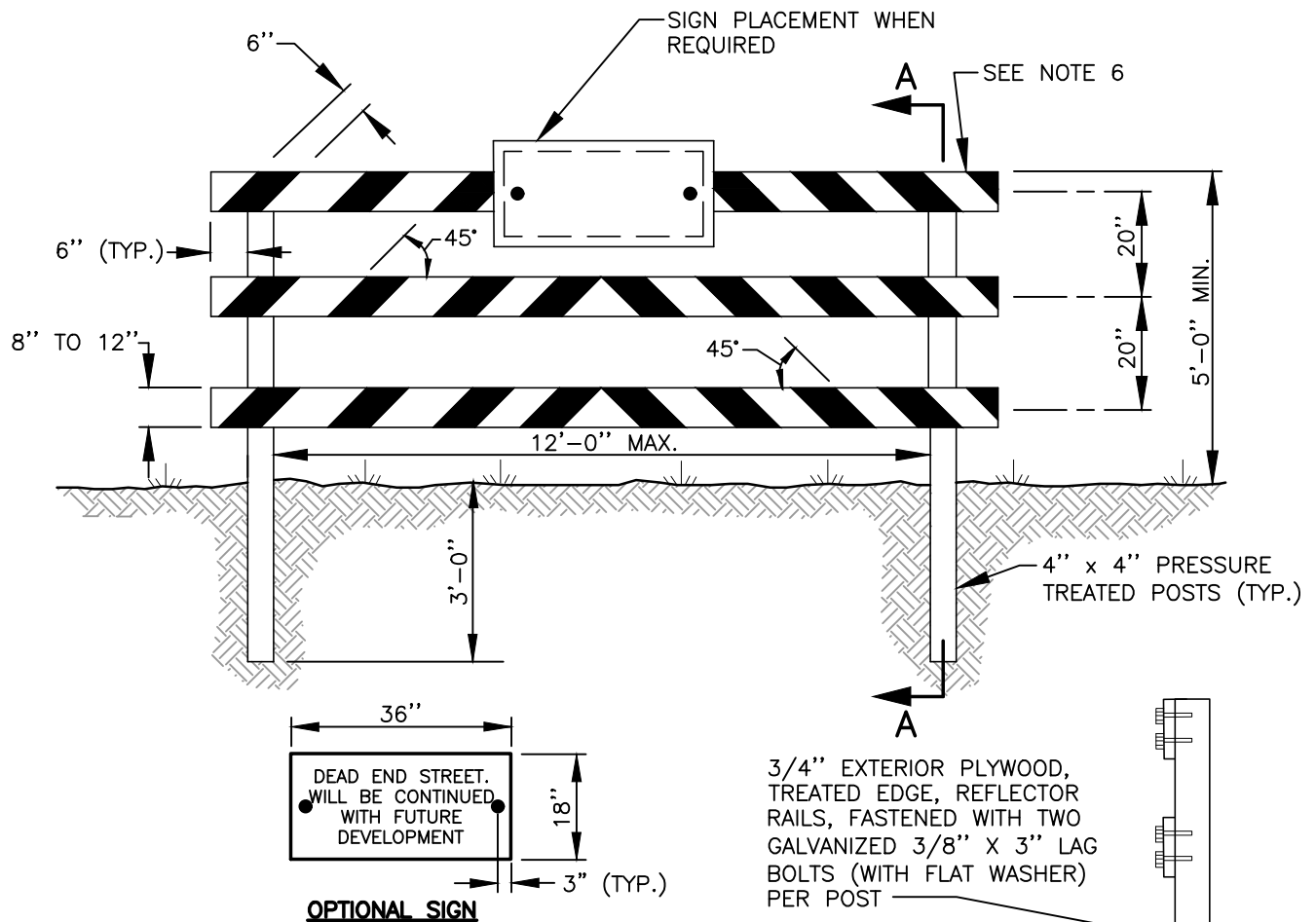
APPROVED BY: *M.H. Pedraza*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
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WASHINGTON

REMOVABLE BOLLARD

STANDARD PLAN
NUMBER

T07-05



NOTES:

- BARRICADES AND MARKINGS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS MODIFIED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT).
- THE ENTIRE AREA OF WHITE AND RED STRIPES SHALL BE REFLECTIONIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS. THE PREDOMINANT COLOR FOR OTHER BARRICADE COMPONENTS SHALL BE WHITE.
- BARRICADE SECTION SHALL EXTEND ACROSS THE ENTIRE STREET AREA. WHERE BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, THE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING. WHERE BOTH RIGHT AND LEFT TURNS ARE ALLOWED, THE CHEVRON STRIPING SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD BE POSITIONED TO SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. RAILS SHALL BE PLACED BOTH FRONT AND BACK OF BARRICADE IF REQUIRED FOR TWO-WAY TRAFFIC. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD BE POSITIONED TO SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. RAILS SHALL BE THE SAME SIZE. FOR WIDER APPLICATIONS, MULTIPLE SECTIONS, SPACED NO FURTHER THAN 4" SHALL BE USED.
- RAILS SHALL BE PLACED BOTH FRONT AND BACK OF BARRICADE IF REQUIRED FOR TWO-WAY TRAFFIC. RAILS SHALL BE THE SAME SIZE.
- LUMBER SHALL BE STANDARD GRADE OR BETTER.
- IF A SIGN IS REQUIRED, FIELD DRILL TWO HOLES TO ACCOMMODATE GALVANIZED 3/8" MACHINE BOLT, WASHER AND NUT. THE SIGN SHALL BE INSTALLED SO THAT THE CENTER RAIL IS NOT COVERED.
- FOR TEMPORARY BARRIER SEE WSDOT STANDARD PLAN H-2.
- 2' MIN. CLEARANCE FROM THE EDGE OF THE TRAVEL LANE TO THE EDGE OF THE BARRICADE.

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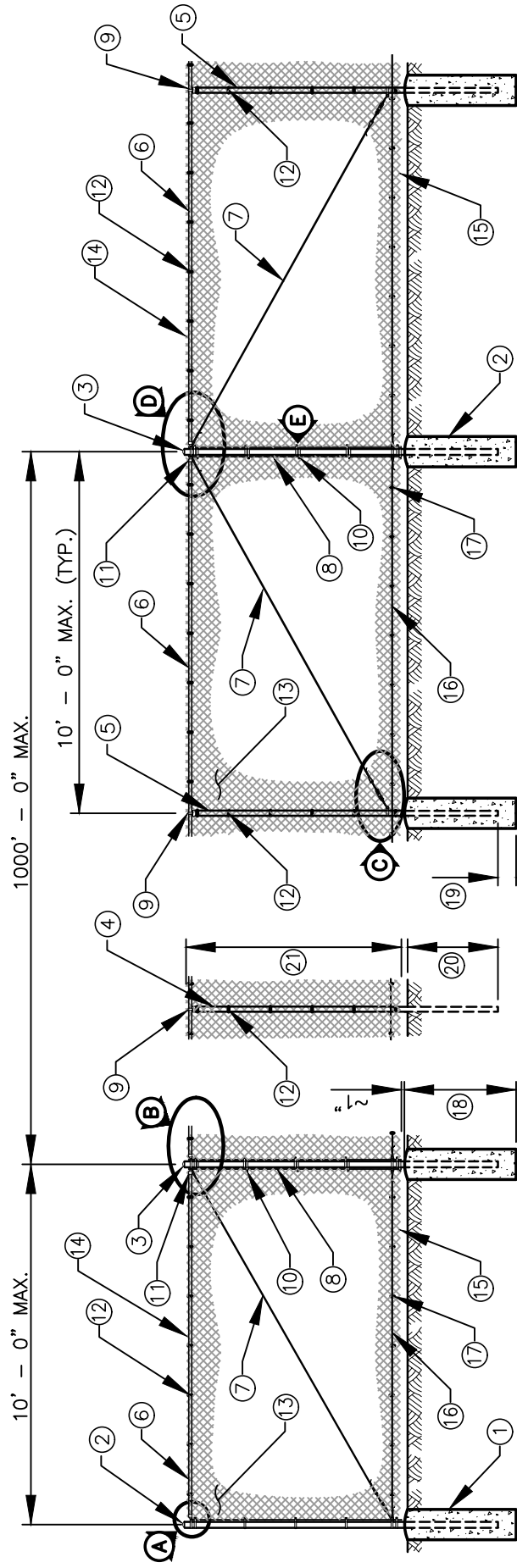
REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	8/08	RAW	MHA	
2	7/14	RAW	MHA	
3	9/21	RAW	MHA	
APPROVED BY: <i>M.H. Pedraza</i>				ENGINEER MANAGER
APPROVED DATE: 9/1/2021				

CITY OF
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WASHINGTON

TYPE III BARRICADE

STANDARD PLAN
NUMBER

T07-06



1 CONCRETE POST BASE (TYP.)

2 END OR CORNER POST AND CAP (TYP.)

3 PULL POST - SPACED AT 1,000' (FT.) MAX. (TYP.)

4 LINE POST - SPACED AT ~10' (FT.) MAX. (TYP.)

5 BRACE POST (TYP.)

6 TOP RAIL

7 TENSION WIRE

8 STRETCHER BAR (TYP.)

9 FENCE POST LOOP CAP

10 FABRIC BAND (TYP.)

11 FENCE RAIL END (TYP.)

12 TIE WIRE (TYP.)

13 CHAIN LINK FENCE FABRIC (TYP.)

14 TWISTED SELVAGE (TYP.)

15 TWISTED KNUCKLED SELVAGE (TYP.)

16 TENSION WIRE ALONG BOTTOM OF FENCE (TYPE 3 FENCE ONLY) (TYP.)

17 HOG RINGS (TYPE 3 FENCE ONLY) SPACED AT 24" (IN.) MAX. (TYP.)

18 POST BASE DEPTH:

TYPE 3 FENCE = 3'-0" (TYP.)

TYPE 4 FENCE = 2'-0" (TYP.)

19 CONCRETE DEPTH BELOW POST:

TYPE 3 FENCE = 0'-6" (TYP.)

TYPE 4 FENCE = 0'-2" (TYP.)

20 LINE POST DEPTH:

TYPE 3 FENCE = 2'-6" (TYP.)

TYPE 4 FENCE = 1'-10" (TYP.)

21 FABRIC HEIGHT:

TYPE 3 FENCE = 6'-0" (TYP.)

TYPE 4 FENCE = 4'-0" (TYP.)

NOTES:

1. ALL CONCRETE POST BASES SHALL BE 10" (IN) MINIMUM DIAMETER.
2. ALONG THE TOP AND BOTTOM, USING HOG RINGS, FASTEN THE CHAIN LINK FENCE FABRIC TO THE TENSION WIRE WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
3. DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.
4. FENCING SHALL BE USED FOR SECURITY AND BOUNDARY DELINEATION ONLY.
5. ALL FENCE MATERIAL SHALL BE BLACK VINYL COATED.
6. SEE CHAIN LINK FENCE BLOW-UP DETAILS ON T07-07B.

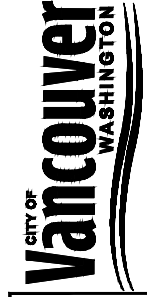
POST AND RAIL SPECIFICATIONS

POST	PIPE	
	NOM. SIZE	I.D.
END, CORNER, OR PULL POST	(SCH. 40) 2 1/2"	DIAM.
LINE OR BRACE POST	2"	DIAM.
TOP RAIL POST	1 1/4"	DIAM.

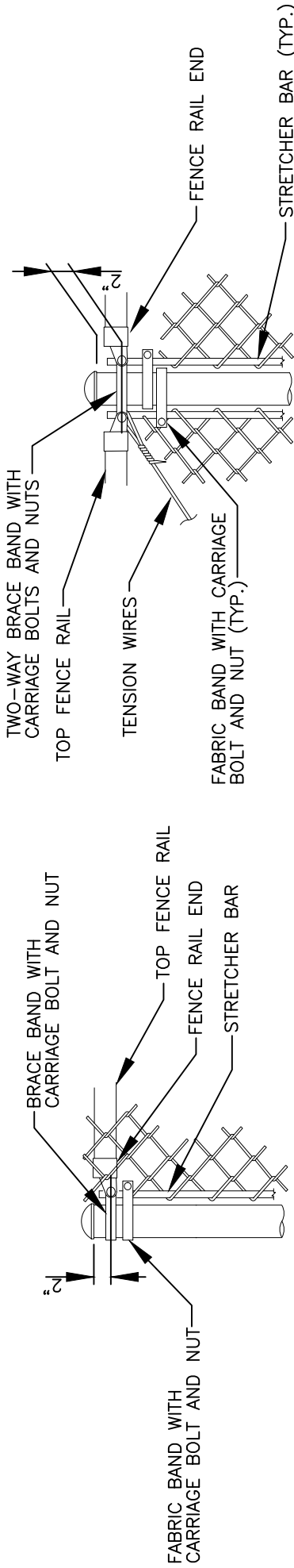
REV	NO.	DATE	BY	APPROVED
1	3/16	RAW	MHA	
2	9/21	RAW	MHA	

PUBLIC WORKS - STREETS AND TRANSPORTATION

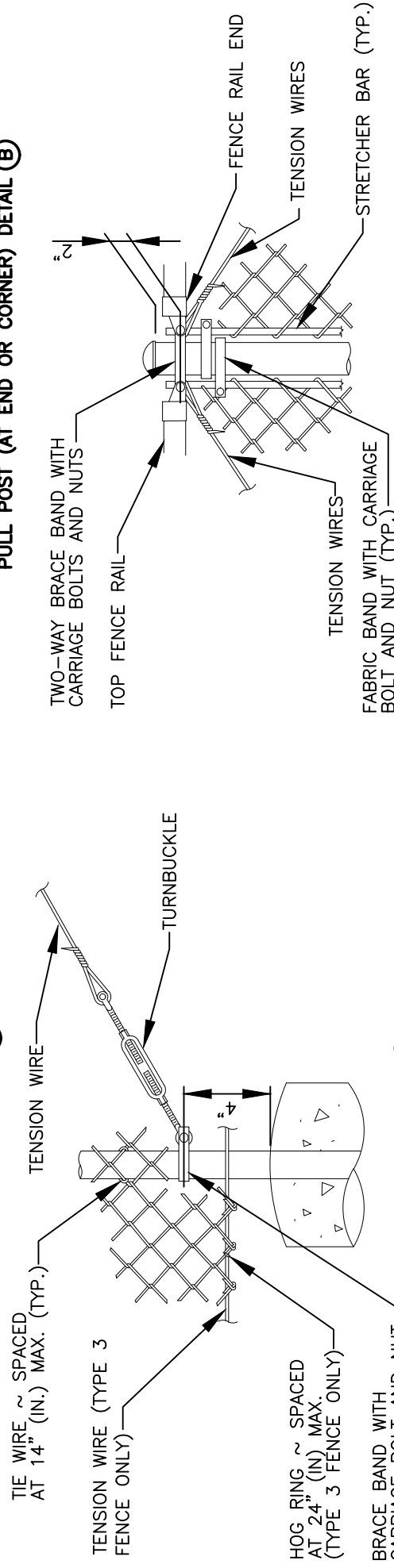
APPROVED BY: *M. H. H. H.* ENGINEER MANAGER 9/1/2021



CHAIN LINK FENCE	STANDARD PLAN NUMBER
TYPES 3 AN 4	T07-07A

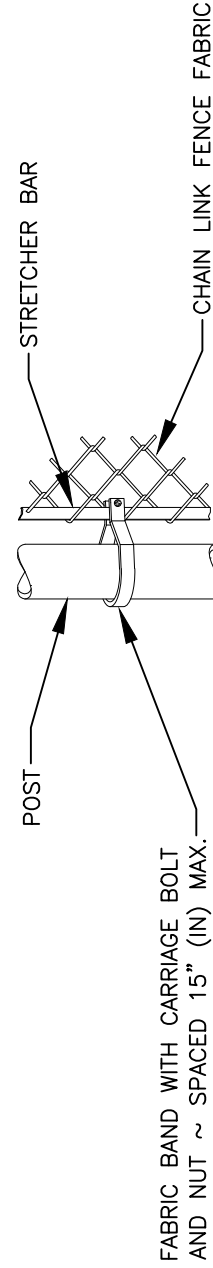


END OR CORNER POST DETAIL (A)



BRACE POST DETAIL (C)

PULL POST (WITHIN RUN) DETAIL (D)



METHOD OF FASTENING STRETCHER BAR TO POST DETAIL (E)

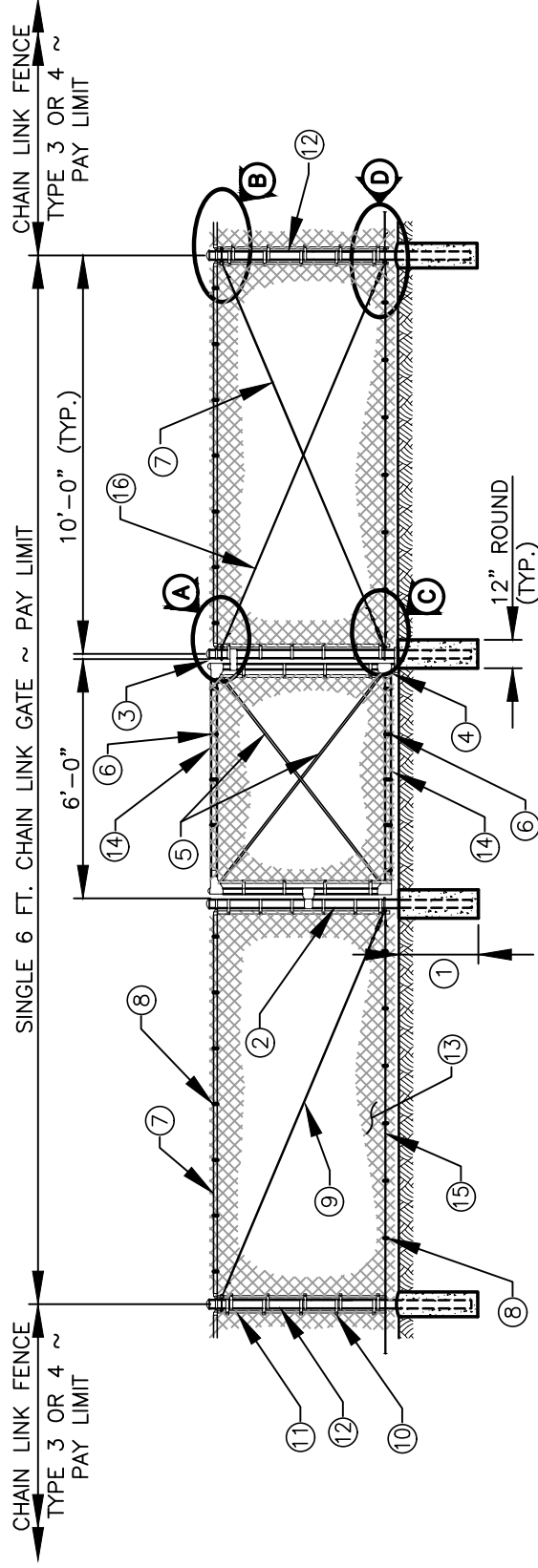
REV	NO.	DATE	BY	APPR	DESCRIPTION
1	3/16	RAW	MFHA		PUBLIC WORKS - STREETS AND TRANSPORTATION
2	9/21	RAW	MFHA		

APPROVED BY: *M. H. McCallum* ENGINEER MANAGER
APPROVED DATE: 9/1/2021



CHAIN LINK FENCE
BLOW-UP DETAILS
TYPES 3 AN 4

STANDARD PLAN
NUMBER
T07-07B



1. CONCRETE POST BASE DEPTH (TYP.):
TYPE 3 FENCE = 3'-0"
TYPE 4 FENCE = 2'-0"
2. GATE POST (TYP.) ~ 3 1/2" (IN.) DIAM. (NOM. SCH. 40)
3. TOP HINGE ~ 90° SWING (TYP.)
4. BOTTOM HINGE ~ 90° SWING (TYP.)
5. TRUSS ROD (TYP.)
6. TIE WIRES (TYP.) ~ SPACED AT 14" (IN.) MAX.
7. TOP RAIL (TYP.)
8. HOG RINGS ~ SPACED AT 24" (IN.) MAX. (TYP.)
9. TENSION WIRES (TYP.)
10. FABRIC BAND (TYP.)
11. STRETCHER BAR (TYP.)
12. PULL POST
- NOTES:**
1. MATERIALS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS 9-16.
2. ALL FENCE MATERIAL SHALL BE BLACK VINYL COATED.

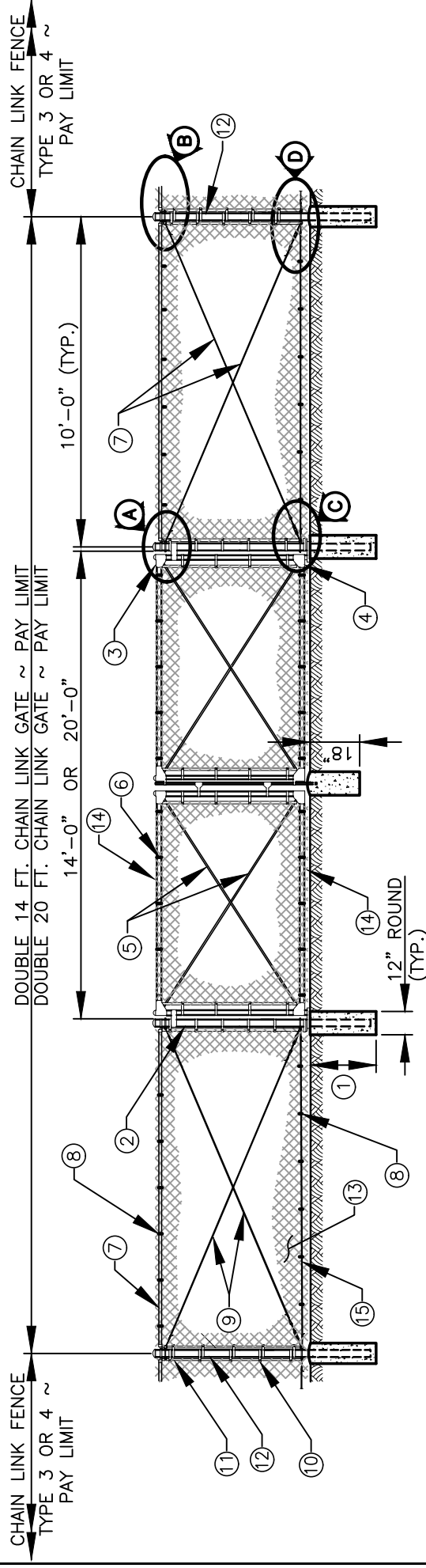
13. CHAIN LINK FENCE FABRIC (TYP.)
14. MATCH FENCE SELVAGE (TYP.)
15. TENSION WIRE ALONG BOTTOM OF FENCE (TYPE 3 FENCE ONLY) (TYP.)
16. TENSION WIRE FOR GATE POST ~ REQUIRED ONLY ON HINGE SIDE

REV.	NO.	DATE	BY	APPROVED	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	3/16	RAW	MHA		
2	9/21	RAW	MHA		

APPROVED BY: *M. H. H. H.*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
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STANDARD PLAN NUMBER	CHAIN LINK SINGLE GATE
T07-08A	TYPES 3 AND 4



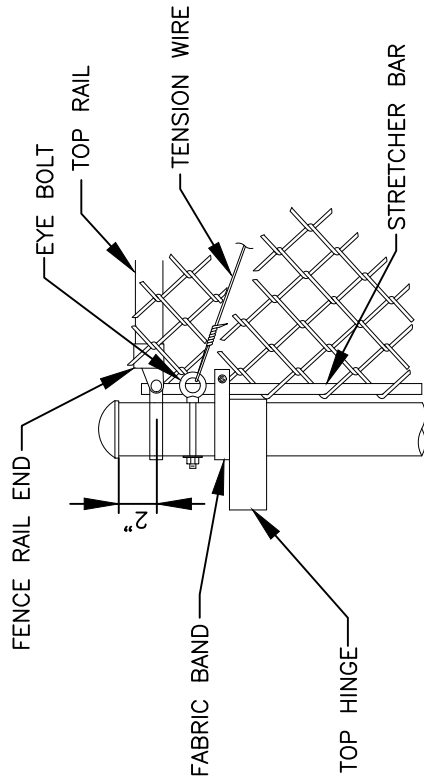
- NOTES:**
1. MATERIALS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS 9-16.
 2. ALL FENCE MATERIAL SHALL BE BLACK VINYL COATED.
 3. SEE **CHAIN LINK GATE BLOW-UP DETAILS ON SHEET T07-08C.**
- 13** CHAIN LINK FENCE FABRIC (TYP.)
- 14** MATCH FENCE SELVAGE (TYP.)
- 15** TENSION WIRE ALONG BOTTOM OF FENCE (TYPE 3 FENCE ONLY) (TYP.)
- 1** CONCRETE POST BASE DEPTH (TYP.):
TYPE 3 FENCE = 3'-0"
TYPE 4 FENCE = 2'-0"
- 2** GATE POST (TYP.) ~ 3 1/2" (IN.) DIAM. (NOM. SCH. 40)
- 3** TOP HINGE ~ 180° SWING (TYP.)
- 4** BOTTOM HINGE ~ 180° SWING (TYP.)
- 5** TRUSS ROD (TYP.)
- 6** TIE WIRES (TYP.) ~ SPACED AT 14" (IN.) MAX.
- 7** TOP RAIL (TYP.)
- 8** HOG RINGS ~ SPACED AT 24" (IN.) MAX. (TYP.)
- 9** TENSION WIRES (TYP.)
- 10** FABRIC BAND (TYP.)
- 11** STRETCHER BAR (TYP.)
- 12** PULL POST

REV	NO.	DATE	BY	APPROVED	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	3/16	RAW	MHA		
2	9/21	RAW	MHA		

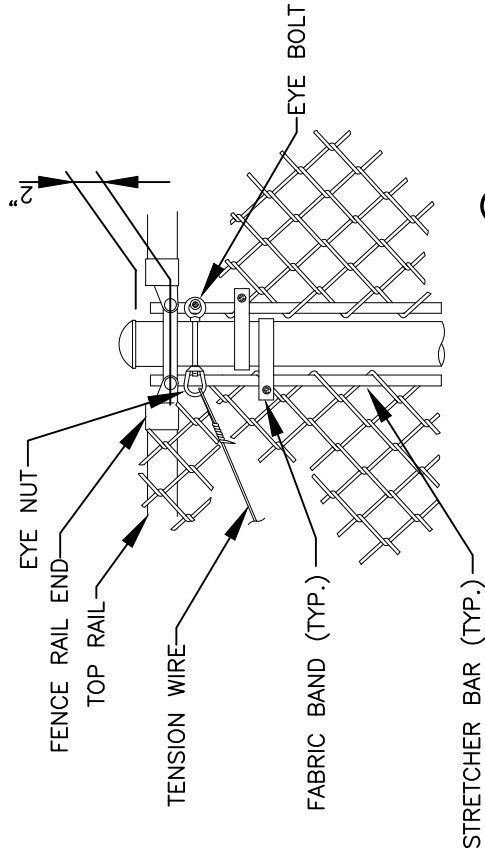
APPROVED BY: *M. H. H. H.*
ENGINEER MANAGER
APPROVED DATE: 9/1/2021

STANDARD PLAN NUMBER	CHAIN LINK DOUBLE GATE	T07-08B
	TYPES 3 AND 4	

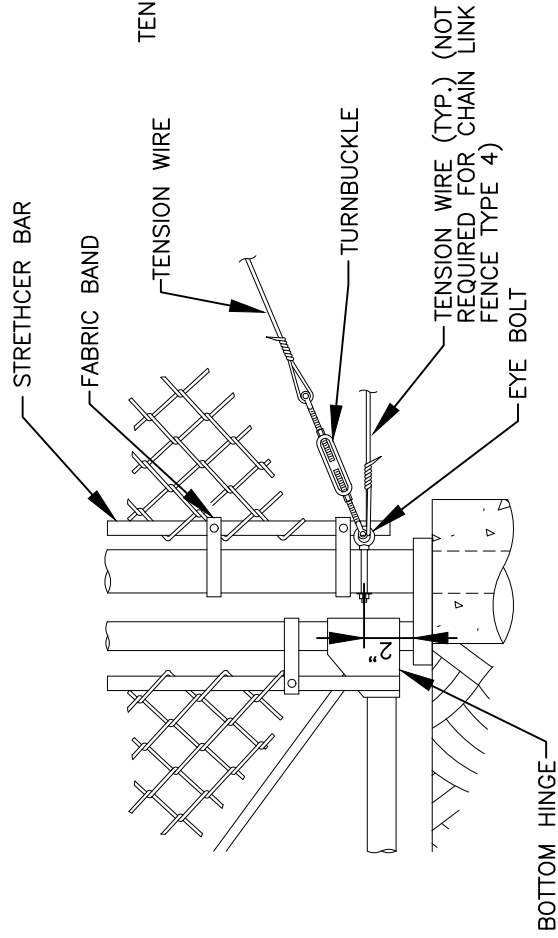
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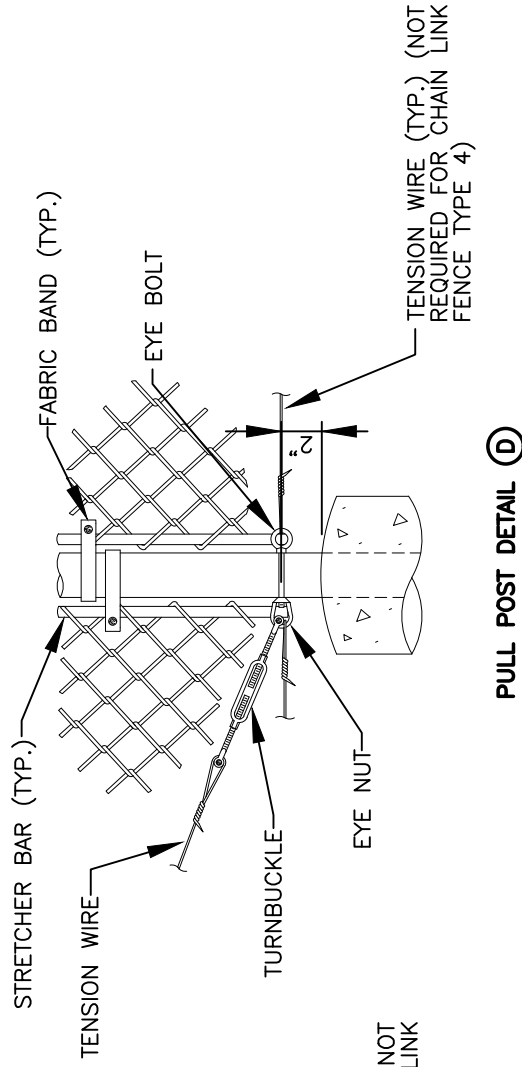
GATE POST DETAIL (A)



PULL POST DETAIL (B)



GATE POST DETAIL (C)



PULL POST DETAIL (D)

REV	NO.	DATE	BY	APPD	PUBLIC WORKS - STREETS AND TRANSPORTATION		APPROVED BY: <i>M. H. [Signature]</i>		APPROVED DATE: 9/1/2021	
1	3/16	RAW	MHA							
2	9/21	RAW	MHA							



CHAIN LINK GATE
BLOW-UP DETAILS
TYPES 3 AND 4

STANDARD PLAN
NUMBER

T07-08C