KING COUNTY METRO TRANSIT TRANSIT PASSENGER FACILITIES IMPROVEMENTS STANDARD DETAILS

THE DETAILS THAT FOLLOW ARE TO SUPPLEMENT THE REQUIREMENTS IMPOSED BY THE AGENCIES HAVING JURISDICTION OVER THE AREAS OF WORK INVOLVED IN THIS CONTRACT. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. IN CASE THAT ONE OR MORE ELEMENTS OF THE WORK ARE NOT COVERED BY JURISDICTIONAL REQUIREMENTS, THE REQUIREMENTS INCLUDED WITH THE DETAILS THAT FOLLOW SHALL APPLY.

K	KCMT 2021-2022 STANDARD DETAILS				
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No.	REVISION	BY	APP'D	DATE	





	DESIGNED:	APPROVED:
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L.	DRAWN:	
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	K. CHANG YUEN	-
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	C. ASQUITH	-

King County
METRO

METRO TRANSIT CAPITAL DIVISION

TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

STANDARD METRO DETAILS

DATE: 05/2022

DRAWING NO: G0.00

NO: OF 1 20 STRUCTURAL NOTES

INTERNATIONAL BUILDING CODE (IBC)

REQUIREMENTS FOR REINFORCED CONCRETE

CODES & STANDARDS

2009 BUILDING CODE

ACI 318 (REVISED 2008)

	ABBREVIA	ATIONS
√ED	ACP ACP ACP APPROX APPROX APPROX APWA AVE CB CLR CO CONC CY DET DWG IE E.J. ENH GAS GV HORI HWY LBS LF. LP LR MH MIC MON N NC NE N. NC NE NC NE NC NE NC NC NC NC	ASPHALT CONCRETE PAVEMENT AT AT APPROXIMATELY AMERICAN PUBLIC WORKS ASSOCIATION AVENUE CATCH BASIN CLEAR CEAN OUT CONCRETE CUBIC YARD DETAIL DRAWING INVERT ELEVATION EAST EXPANSION JOINT ELECTRIC HANDHOLE EXISTING ELECTRIC VALVE EACH WAY FIRE HYDRANT GUY ANCHOR GALVANIZED RIGID STEEL GAS VALVE HOT MIXED ASPHALT HORIZONTAL HEIGHT HIGHWAY POUNDS LINEAR FOOT LIGHT POLE LITTER RECEPTACLE MAXIMUM MANHOLE MINIMUM MOMUMENT IN CASE SURFACE MONUMENT NORTH NATIONAL COARSE NORTHEAST NOT IN CONTRACT
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C. CHANG YUEN

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GA	GUY ANCHOR	. ST	STREET	ı
GRS GV	GALVANIZED RIGID STEE GAS VALVE	L STD STS	STANDARD STREET, SIGN	ı
HMA	HOT MIXED ASPHALT	TOP	STREET SIGN TOP OF WALL	ı
HORIZ HT	HORIZONTAL HEIGHT	TP	TOP OF PAD	ı
HWY	HIGHWAY	TPD TRH	TELEPHONE PEDESTAL TRAFFIC HANDHOLE	ı
LBS	POUNDS	TSP	TRAFFIC SIGNAL POLE	ı
L.F. LP	LINEAR FOOT LIGHT POLE	TW TYP	TOP OF WALL TYPICAL	ı
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NO.

NUMBER

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ON CENTER

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METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

SYMBOL LEGEND

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UP

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2.40

1.00

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DIRECTION OF DRAINAGE AND SLOPE

DITCH WITH SLOPE AND FLOW INDICATORS

SIGN (EXISTING)

PROPERTY LINE

NEW CONCRETE PAVEMENT

ROAD PAVEMENT REMOVAL

EXISTING UTILITY POLE

EXISTING LIGHT POLE

NEW LIGHT POLE

DECIDUOUS TREE

EVERGREEN TREE

BUSH OR SHRUB

FINISHED ELEVATION

LITTER RECEPTACLE

TECH PYLON W/ OVERHEAD

ELECTRICAL HANDHOLE

REAL TIME DISPLAY (1.5'x 5' & 1'x 5')

CONCRETE SHELTER FOOTING WITH DASHED ROOF OVERHANG OUTLINE

BENCH (1' x 4')

BLADE MARKER

MONUMENT/TBM

BIKE LOOP

EXISTING SPOT ELEVATION

COLUMN MOUNTED LITTER RECEPTACLE

CENTER LINE

SIGN (NEW)

FENCE

GENERAL NOTES, STRUCTURAL NOTES, SYMBOL LEGEND & ABBREVIATIONS 05/2022

G0.01 2 20

GENERAL NOTES

1. DETAILS MAY BE MODIFIED TO FIT EXISTING SITE CONDITIONS.

2. CURB RAMPS SHALL LINE UP WITHIN MARKED CROSSWALK IF

REFER TO NOTES ON PROPOSED SITE PLAN FOR

METRO PASSENGER FACILITY IMPROVEMENT NOTES

THE REQUIREMENTS IN THESE NOTES, AS WELL AS IN THE CONTRACT SPECIFICATIONS, SUPPLEMENT THE REQUIREMENTS OF THE AGENCY OR AGENCIES HAVING JURISDICTION OVER THE WORK IN THIS CONTRACT. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY, IN CASE THAT ONE OR MORE ELEMENTS OF THE WORK ARE NOT COVERED BY REQUIREMENTS OF AN AGENCY OR AGENCIES. THE REQUIREMENTS IN THESE NOTES SHALL APPLY.

GENERAL NOTES

- 1. ALL WORK METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE LATEST EDITION OF THE SPECIFICATIONS AND THE APPLICABLE DEVELOPMENT GUIDELINES AND DESIGN AND CONSTRUCTION STANDARDS FROM THE AGENCY HAVING JURISDICTION OVER THE SITES OF WORK.
- 2. CONTACT EACH AGENCY'S PUBLIC WORKS DEPARTMENT AND SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING AT LEAST ONE WEEK BEFORE BEGINNING CONSTRUCTION. ATTENDANTS ARE TO INCLUDE EACH AGENCY'S APPOINTED REPRESENTATIVE(S) AND THE PROJECT REPRESENTATIVE.
- 3. ASSUME FULL RESPONSIBILITY FOR WORKER SAFETY, AND DAMAGE TO STRUCTURES AND IMPROVEMENTS RESULTING FROM CONSTRUCTION OPERATIONS.
- 4. MAINTAIN THE FOLLOWING THROUGHOUT THE EXECUTION OF THIS PROJECT, AND AT A LOCATION KNOWN AND ACCEPTABLE TO THE PROJECT REPRESENTATIVE AND THE JURISDICTIONAL REPRESENTATIVES ASSIGNED TO THE PROJECT
 - A. ALL APPLICABLE PERMITS, AND CONDITIONS THEREIN.
 - THE APPROVED PLANS.
 - A CURRENT COPY OF THE DEVELOPMENT GUIDELINES AND DESIGN AND CONSTRUCTION STANDARDS FROM EACH AGENCY HAVING JURISDICTION OVER THE SITES OF WORK.
 - TRAFFIC CONTROL AND STREET MAINTENANCE PLANS APPROVED BY THE AGENCY OR AGENCIES HAVING JURISDICTION OVER THE SITES OF WORK.
 - A CURRENT SET OF RECORD (AS CONSTRUCTED) DRAWINGS.
 - F. COPIES OF THE HEALTH, SAFETY AND ACCIDENT PREVENTION PLANS.
- 5. WORK SHALL CONFORM TO THE APPROVED DRAWINGS AND THE CONTRACT SPECIFICATIONS. CHANGES TO THESE DOCUMENTS REQUIRE PRE-APPROVAL FROM THE PROJECT REPRESENTATIVE AND THE AGENCY HAVING JURISDICTION OVER THE SITES OF WORK.
- 6. PROVIDE THE PROJECT REPRESENTATIVE WITH A SET OF RECORD DRAWINGS THAT MEET THE CONTRACT REQUIREMENTS PRIOR TO THE PROJECT FINAL APPROVAL
- 7. PRIOR TO CONSTRUCTION OF METRO FOOTINGS AND FACILITIES, PLEASE CONTACT METRO INSPECTORS AND CONSTRUCTION AT BUSSTOPINSPECTIONS@KINGCOUNTY.GOV OR BY PHONE AT 206-263-2381. PLEASE NOTE THAT METRO REQUIRES NOTICE OF AT LEAST THREE WEEKS IN ADVANCE TO SCHEDULE AN INSPECTION. ALL METRO FOOTINGS MUST BE INSPECTED AND APPROVED BY METRO INSPECTORS BEFORE ANY CONCRETE IS POURED.

WORK SCHEDULE NOTES

1. DAYS AND HOURS OF WORK SHALL CONFORM TO THE CONDITIONS IN THE PERMITS ISSUED BY THE AGENCY HAVING JURISDICTIONS OVER SITES OF WORK.

EROSION CONTROL NOTES

- 2. THE EROSION PREVENTION AND SEDIMENT CONTROL (ESC) MEASURES SHOWN ON THE APPROVED PLANS ARE MINIMUM REQUIREMENTS.
- 3. BEFORE ANY GROUND DISTURBANCE OCCURS, ALL DOWNSTREAM ESC MUST BE CONSTRUCTED AND IN OPERATION INSTALL AND MAINTAIN ALL ESC MEASURES ACCORDING TO THE ESC PLAN. THESE ESC MEASURES INCLUDING PERIMETER CONTROLS, SHALL REMAIN IN PLACE UNTIL FINAL CONSTRUCTION IS COMPLETED AT EACH SITE OF WORK AND PERMANENT SOILS STABILIZATION HAS BEEN ACHIEVED.
- 4. FROM MAY 1 THROUGH SEPTEMBER 30, PROVIDE TEMPORARY AND PERMANENT COVER MEASURES TO PROTECT DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR SEVEN DAYS OR MORE.
- 5. FROM OCTOBER 1 THROUGH APRIL 30, PROVIDE TEMPORARY AND PERMANENT COVER MEASURES TO PROTECT DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR TWO DAYS OR MORE. IN ADDITION TO COVER MEASURES, THE CONTRACTOR SHALL:
 - PROTECT STOCKPILES AND STEEP CUT AND FILL SLOPES IF UNWORKED FOR MORE THAN 12 HOURS.
- STOCKPILE, ON SITE, ENOUGH COVER MATERIALS TO COVER ALL DISTURBED AREAS.
- 5. BY OCTOBER 8, SEED ALL AREAS THAT WILL REMAIN UNWORKED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). MULCH ALL SEEDED AREAS.

UTILITY NOTES

1. NOT ALL UNDERGROUND UTILITIES ARE NECESSARILY SHOWN ON THE DRAWINGS. CALL 811 "CALL BEFORE YOU DIG" FOR UNDERGROUND UTILITY FIELD LOCATION 48 HOURS PRIOR TO BEGINNING WORK AT EACH SITE.

- 2. FIBER OPTIC CABLES ARE BURIED WITHIN MOST OF THE SITES OF WORK. EXERCISE EXTREME CARE TO AVOID DAMAGE TO THESE CABLES. REPAIR OR REPLACE THEM, AS DIRECTED BY THE PROJECT REPRESENTATIVE AND TO THE SATISFACTION OF THEIR OWNER(S), IF DAMAGED AS A RESULT OF THE WORK UNDER THIS CONTRACT.
- 3. ALL TRENCH EXCAVATION OPERATIONS SHALL MEET OR EXCEED ALL APPLICABLE SHORING LAWS FOR TRENCHES. ALL TRENCH SAFETY SYSTEMS SHALL MEET WISHA REQUIREMENTS. TRENCHING THAT MAY AFFECT TREE ROOTS SHALL BE DONE UNDER THE SUPERVISION OF AN ARBORIST APPROVED BY THE AGENCY HAVING JURISDICTION OVER THE SITE WORK.
- 4. ADJUST TO NEW GRADE ALL MANHOLES, CATCH BASINS, BOXES AND HAND HOLES.

WORK IN RIGHT-OF-WAY AND WITHIN PRIVATE PROPERTY EASEMENTS

- 1. WHEN THE WORK SITE IS UNATTENDED, INSTALL A SIGN WITH MINIMUM TWO-INCH LETTERS STATING PERMITTEE OR COMPANY NAME, AND DAY AND EVENING PHONE NUMBERS.
- 2. INSTALL BARRICADES, SIGNS, WARNING LIGHTS, AND SAFETY DEVICES SUFFICIENT TO NOTIFY PUBLIC OF OBSTRUCTIONS OR TRAFFIC HAZARDS. DEVICES MUST REMAIN UNTIL THE OBSTRUCTIONS OR TRAFFIC HAZARDS
- 3. MAINTAIN ACCESS TO FIRE STATIONS, FIRE HYDRANTS, FIRE ESCAPES, AND FIRE FIGHTING EQUIPMENT.
- 4. MAINTAIN ACCESS TO PROPERTY AND BUSINESSES ADJOINING THE SITES OF WORK. FURNISH, INSTALL AND MAINTAIN TEMPORARY "BUSINESSES ARE OPEN" SIGNS AT LOCATION DESIGNATED BY THE PROJECT REPRESENTATIVE. REMOVE UPON COMPLETION OF WORK.
- 5. PRESERVE AND PROTECT ALL PROPERTIES ADJOINING THE SITES OF WORK.
- 6. RESTORE AREAS DISTURBED BY THE WORK TO ORIGINAL OR BETTER CONDITION. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY AND TO THE SATISFACTION OF THE PROJECT REPRESENTATIVE
- 7 DO NOT DISTURB SURVEY MONUMENTS AND MARKERS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY HAVING JURISDICTION AND FROM THE PROJECT REPRESENTATIVE, REPLACEMENT OR RESETTING OF DISTURBED MONUMENTS AND MARKERS SHALL BE BY A WASHINGTON STATE LICENSED LAND SURVEYOR.
- 8. INSTALL TEMPORARY ADA-COMPLIANT SIDEWALK OR CURB RAMPS IF PERMANENT RAMPS OR ADA PATHS ARF BLOCKED. IF IT IS UNFEASIBLE TO PROVIDE TEMPORARY SIDEWALK/RAMPS, PROVIDE APPROPRIATE ACCESS DETOURS, WITH THE CORRESPONDING SIGNAGE AND AT LOCATIONS APPROVED BY THE PROJECT REPRESENTATIVE.
- 9. COVER OPEN EXCAVATION WITH NON-SKID STEEL PLATES RAMPED TO ELEVATION OF CONTIGUOUS SURFACES.
- 10. MATERIAL STOCKPILING AT THE SITES OF WORK SHALL BE MAINTAINED TO A MINIMUM AND ONLY AS APPROVED BY CITY INSPECTORS, AFFECTED PROPERTY OWNERS AND THE PROJECT REPRESENTATIVE. MATERIALS SHALL BE STORED AS NECESSARY TO PROTECT THE PUBLIC.
- 11. WHERE TRAFFIC LANES AND SIDEWALK CLOSURES ARE REQUIRED, IMPLEMENT THEM AS NECESSARY TO MINIMIZE PUBLIC IMPACT AND IN STRICT CONFORMANCE WITH THE CORRESPONDING, AGENCY-APPROVED, TRAFFIC CONTROL PLANS.
- 12. UNLESS INDICATED OTHERWISE IN THE CONDITIONS OF THE CORRESPONDING PERMITS, COMPLETE CONCRETE AND OTHER SURFACING OR RESURFACING WORK UNDER THE FOLLOWING SCHEDULE:
 - A. IN PRINCIPAL ARTERIALS AND MAJOR COLLECTOR STREETS: WITHIN 3 CALENDAR DAYS. B. IN OTHER STREETS: WITHIN 7 CALENDAR DAYS.
- DEMOLITION NOTES
- 1. CALL 811 "CALL BEFORE YOU DIG" FOR LOCATING UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING SITE WORK.
- 2. AT LEAST FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION AND CLOSING OF ANY BUS STOP, CONTACT METRO TRANSIT CONSTRUCTION COORDINATOR AT (206) 477-1140 TO COORDINATE POSTING RIDER ALERT ABOUT BUS STOP CLOSURE AND ESTABLISHMENT OF INTERIM BUS ZONES.
- 3. WHEN ENCOUNTERING CONSTRUCTION SITES WITH EXISTING TRANSIT FURNITURE, SUCH AS SHELTERS, PEDESTRIAN LIGHT POSTS, LUMINARIES, BENCHES, LITTER RECEPTACLES AND EXISTING BUS STOP SIGNS AND POSTS, CALL MATT RAWSON (206-263-5681) OF TRANSIT SOUTH FACILITIES AT LEAST 72 HOURS PRIOR TO MOBILIZATION FOR REMOVAL AND SALVAGE OF SITE FIXTURES TO METRO TRANSIT.
- 4. AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION AT A SITE OF WORK, CONTACT DOUG MUSSELMAN-BROWN OF SEATTLE TIMES AT (206) 423-4384 OR EMAIL DMBROWN@SEATTLETIMES.COM FOR REMOVAL OF NEWSPAPER BOXES FROM THE SITE.

- REMOVE DEMOLITION DEBRIS FROM THE WORK SITES AT THE END OF EACH DAY AND DISPOSE OF IT AT LEGALLY APPROVED SITES.
- 6. UNLESS OTHERWISE SPECIFIED ON THE SITE PLANS, EXISTING PEDESTRIAN LIGHT POLE FOUNDATIONS DESIGNATED TO BE REMOVED SHALL BE TAKEN OUT ENTIRELY. ELECTRICAL CONNECTORS SHALL BE REMOVED FROM THE CONDUITS FROM HAND-HOLF TO THE EXISTING FOUNDATION, IF THE CONDUIT IS EXPOSED, REMOVE IT FROM FOUNDATION TO THE HANDHOLE, OTHERWISE CAP OR PLUG AND ABANDON IN PLACE. PLUG CONDUIT HOLE AT HAND-HOLE IF SPECIFIED ON THE SITE PLANS FOR AN ELECTRICAL HANDHOLE TO BE REMOVED, DE-ENERGIZE AND REMOVE ELECTRICAL CONDUCTORS ALL THE WAY TO THE SOURCE, ABANDON THE CONDUIT IN PLACE AND CAP ITS ENDS WITH EPOXY. THEN, REMOVE THE HANDHOLE AND RESTORE SITE TO MATCH FXISTING
- 7. SAWCUT PAVEMENT TO BE REMOVED TO STRAIGHT VERTICAL LINES, SIDEWALK PANELS SHALL BE REMOVED TO THE NEAREST SCORE-LINES OR CONSTRUCTION JOINTS. FIELD-VERIFY LOCATION OF SCORE-LINES AND CONSTRUCTION JOINTS.

SITE RESTORATION NOTES

- UNLESS SPECIFIED OTHERWISE, RESTORE SITE TO MATCH EXISTING CONDITIONS WHERE FOUNDATIONS OF SHELTERS, PEDESTRIAN LIGHT POSTS AND OTHER SITE FURNITURE ARE REMOVED. FILL EXCAVATED AREAS WITH STRUCTURAL FILL AND COMPACT TO 95 PERCENT OF PROCTOR DENSITY. RESTORATION WORK SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO LAWN BY SODDING: SURFACING WITH MATCHING BEAUTY BARKS: AND SIDEWALK/PATHWAY REPAIRS THAT MATCH EXISTING MATERIALS, COLOR, AND TEXTURE.
- REFER TO CORRESPONDING ELECTRICAL SITE PLANS FOR ELECTRICAL WORK, INCLUDING CONDUIT RUNS, POWER PEDESTAL FOUNDATION AND DETAILS; CONDUIT ENTRY POINTS AT SHELTER/TECH PYLON FOUNDATIONS, AND PEDESTRIAN LEVEL LUMINARIES; AND CONNECTION POINTS TO POWER SOURCE. RESTORE TO MATCH EXISTING ASPHALT PAVEMENT, LANDSCAPED AREAS, AND CONCRETE SIDEWALK OVER TRENCHES EXCAVATED FOR FLECTRICAL WORK.
- PRIOR TO WORKING ON EXISTING SPRINKLER IRRIGATION SYSTEMS. TEST IN THE PRESENCE OF THE PROJECT. REPRESENTATIVE AND RECORD THE SYSTEM CONDITION, UPON COMPLETION OF THE CONTRACT WORK, TEST AGAIN TO SATISFY THE PROJECT REPRESENTATIVE THAT THE CONDITION OF THE SYSTEM MEETS THE REQUIREMENT OF THIS CONTRACT
- 4. FOOTINGS SHALL BE PLACED TO ENSURE THE SHELTER IS A MINIMUM THREE FEET FROM FACE OF CURB TO THE VERTICAL STRUCTURE; WHICH INCLUDES CANTILEVER OVERHANG AND EDGE OF THE SHELTER IF PLACED REVERSE TO CURB.

NEW SITE FURNITURE/FIXTURE NOTES

- BENCHES, LITTER RECEPTACLES AND BIKE LOOPS: METRO TRANSIT WILL FURNISH, TRANSPORT AND INSTALL THE SITE FURNITURE AT EACH BUS ZONE.
- PEDESTRIAN LIGHT POLES AND LUMINARIES: CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL FOUNDATIONS FOR PEDESTRIAN LIGHT POLES AND LUMINARIES. TASKS SHALL INCLUDE PROVIDING AND INSTALLING J-BOLTS, CONDUITS, GROUNDING RODS, REBARS, AND OTHER MATERIALS FOR THE FOUNDATIONS. OBTAIN LIGHT POLE BASE BOLT CIRCLE PRIOR TO SETTING FOUNDATIONS. UNLESS STATED OTHERWISE ON THE ELECTRICAL SITE PLANS, METRO TRANSIT WILL SUPPLY PEDESTRIAN LIGHT POLES AND LUMINARIES. CONTRACTOR SHALL PICK UP AND TRANSPORT THE LIGHTING HARDWARE FROM METRO SOUTH FACILITIES TO EACH PROJECT SITE. METRO'S SOUTH FACILITIES IS LOCATED AT 11911 EAST MARGINAL WAY S. BUILDING C. TUKWILA, WASHINGTON 98168. CONTACT MATT RAWSON AT (206) 263-5681 AT LEAST 72 HOURS IN ADVANCE. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND CONDUCTORS REQUIRED TO CONNECT THE PEDESTRIAN LUMINARIES TO THE POWER PEDESTAL OR OTHER POWER SOURCE AS SHOWN ON ELECTRICAL PLANS, AND TO MAKE THE LUMINARIES FUNCTIONAL.
- BUS SHELTERS, RAPIDRIDE TECHNOLOGY PYLONS, AND BLADE MARKERS: METRO TRANSIT WILL PROVIDE, TRANSPORT. AND INSTALL THE FIXTURES/FURNITURE UPON COMPLETION OF THE SITE WORK, INCLUDING THE POWER CONNECTION FROM THE FOUNDATIONS TO THE FIXTURES/FURNITURE CONTRACTOR SHALL PROVIDE CONDUITS AND PULL CONDUCTORS BETWEEN THE POWER SOURCE AND THE FOLINDATIONS
- 4. BUS SIGNS: UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS, METRO TRANSIT WILL FURNISH AND INSTALL BUS SIGNS AT THE ZONES.
- OTHER FURNITURE AND HARDWARE NOT MENTIONED IN THIS LIST: FURNISH AND INSTALL OTHER FURNITURE/HARDWARE NOT LISTED BUT SHOWN ON THE DRAWINGS.

K	KCMT 2021-2022 STANDARD DETAILS				
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No.	REVISION	BY	APP'D	DATE	



DESIGNED:	APPROVED:	Г
K. CHANG YUEN	P. ENG	
DRAWN:		1
L. ANDERSON		
CHECKED:	PROJECT NO:	
K. CHANG YUEN	-	
CHECKED:	CONTRACT NO:	
C. ASQUITH	-	



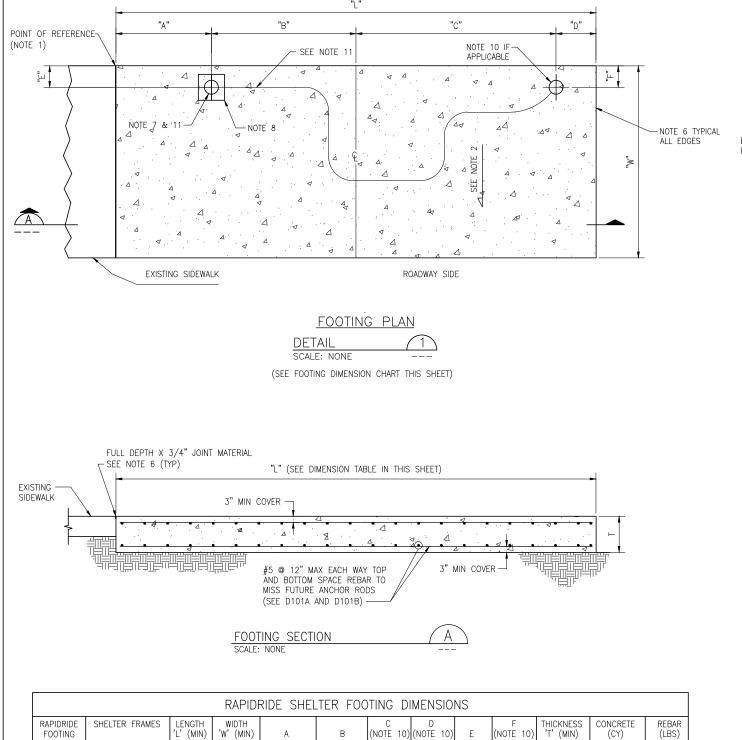
METRO TRANSIT CAPITAL DIVISION

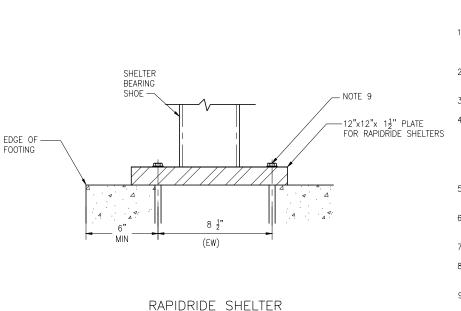
TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

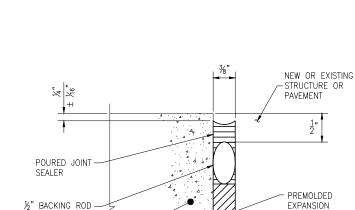
05/2022

FACILITY NOTES

G0.02 HEET NO: OI





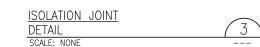


REAR LEG INSTALLATION

DETAIL

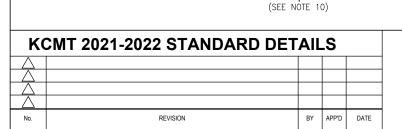
NEW PCCP

SCALE: NONE



GENERAL NOTES

- 1. INSTALL A PK NAIL AT THIS CORNER IF SHELTER FOOTING IS INTERGRATED INTO OTHER CONCRETE SURFACES. DIMENSIONS "A", "B" AND "C" ARE OFFSET FROM THIS POINT OF REFERENCE. SEE DRAWINGS D101A AND D101B FOR REBAR LAYOUT DETAILS.
- 2. PROVIDE MAX 2% SLOPE TOWARDS STREET TO ASSURE PROPER DRAINAGE OF SURFACE WATER UNLESS DIFFERENT SLOPE IS SPECIFIED ON SITE PLAN.
- 3 CONTRACTOR SHALL COORDINATE WORK WITH RELATED WORK INCLUDING ELECTRICAL.
- VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK: CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. METRO DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE, AND LOCATION OF ANY LITHTY.
 - COORDINATE THE REQUIREMENTS FOR LOCATION, PROTECTION, AND/OR RELOCATION OF UTILITIES WITH THE UTILITY OWNER PRIOR TO STARTING WORK.
- 6 ISOLATION JOINT BETWEEN FOOTING AND ADJACENT SIDEWALK OR IMPROVEMENTS SEE DETAIL 3 THIS SHEET.
- 7 ELECTRICAL CONDUIT LOCATION. SEE <u>D111</u> FOR DETAILS.
- 8 SHELTER FOOTING REAR ANCHOR BY OTHERS. SEE DETAIL 2 FOR MINIMUM EDGE DISTANCE FROM BACK OF FOOTING.
- 9 ANCHOR ROD (4 TYP, BY OTHERS). 1"φ S. S. THREADED ROD. 8 1/4" MIN EMBED. EPOXY WITH HILTI HIT-HY 150 ADHESIVE, WITH 6" MIN EDGE DISTANCE. FOLLOW HILTI INSTALLATION INSTRUCTIONS.
- 10 FOR INTERIM INSTALLATION OF A STANDARD SHELTER FRAME ON A RAPIDRIDE FOOTING, ALSO INSTALL AN ELECTRICAL CONDUIT AT THIS LOCATION. (REAR RIGHT SHELTER LEG.)
- SEE GROUNDING ELECTRODE INSTALLATION DETAILS ON SHEET $\underline{D111}$ FOR SHELTERS TO RECEIVE SOLAR LIGHTS. IF FOOTING IS DESIGNATED FOR BOTH INTERIM STANDARD SHELTER AND FUTURE RAPIDRIDE SHELTER, TERMINATE EACH END OF THE GROUNDING ELECTRODE AT EACH SHELTER LEG LOCATION.



9'-8"

15'-0"

4'-4"

8'-0"

1'-6 3/4"

1'-4 3/4"

3'-10 3/4"

3'-3 1/4"

6'-1 1/4"

4'-2"

6'-10"

8"

10 3/4'

10 3/4

10 3/4

14"

18"

* "D" INCREASES IF "L" IS LARGER THAN STANDARD DIMENSION.

RR-124, RR-125,

RR-206, RR-208,

R-208B, F21, F1 RR-206, RR-208,

RR-208B, F22

RR-10



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532

451

DESIGNED:	APPROVED:	Г
K. CHANG YUEN	P. ENG	
DRAWN:		l
L. ANDERSON		
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K. CHANG YUEN	-	
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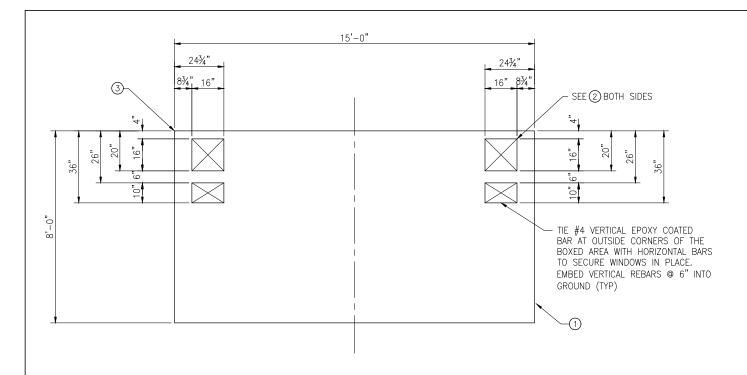
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METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

RAPIDRIDE SHELTER FOOTING PLAN, SECTIONS AND DETAILS

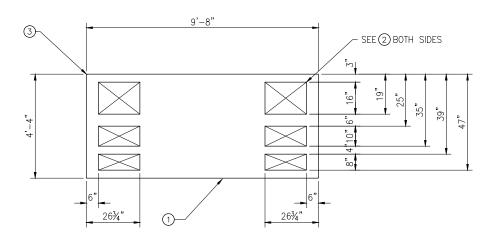
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RAPIDRIDE RR-15 SHELTER FOOTING (FOR RR206/RR208/RR208B) REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS



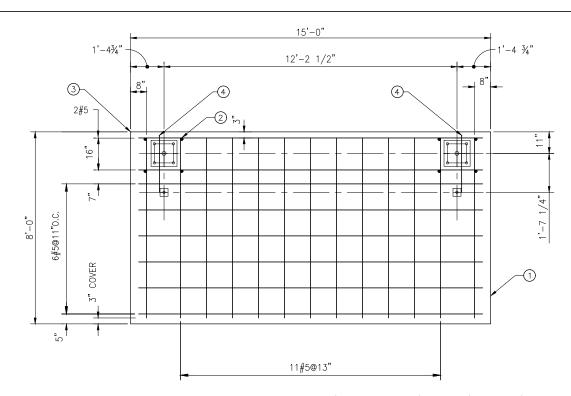


REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS



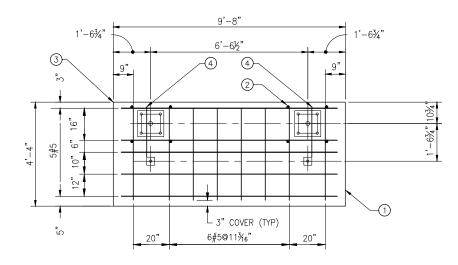
CONSTRUCTION NOTES (

- JOINT PER DET <u>3/D101</u> TO ISOLATE EDGES FROM PAVEMENT, SIDEWALKS, OR OTHER STRUCTURES.
- 2. #4 VERTICAL EPOXY—COATED BARS 6" EMBEDMENT INTO SOIL FOR RESTRAINT (TYP).
- 3. POINT OF REFERENCE, (SEE NOTE 1/D101).
- 4. 20" LONG #5 REBAR @ 6" OFFSET FROM THE ADJACENT REBAR. BOTH TOP & BOTTOM LAYERS.



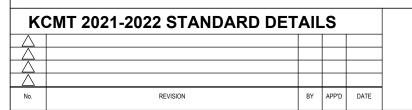
RAPIDRIDE RR-15 SHELTER FOOTING (FOR RR206/RR208/RR208B)





RAPIDRIDE RR-10 SHELTER FOOTING (RR124/RR125/RR126)
REINFORCEMENT LAYOUT DETAILS

DETAIL 4
SCALE: NONE ---





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K. CHANG YUEN	P. ENG	
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C. ASQUITH		



METRO TRANSIT CAPITAL DIVISION

TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

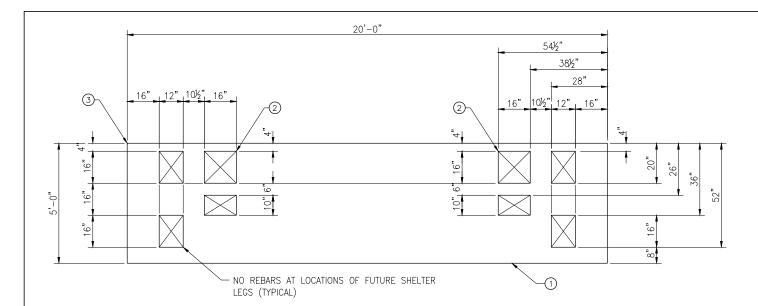
RAPIDRIDE SHELTER FOOTING REBAR LAYOUT DETAILS 05/2022

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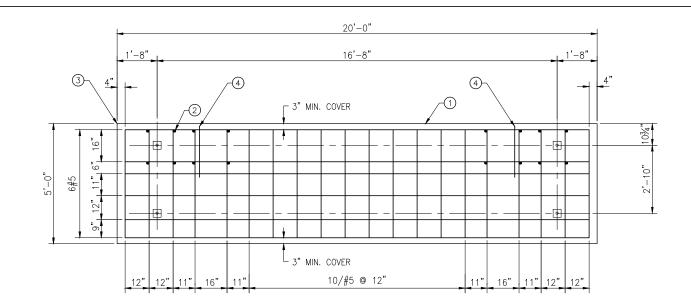


RAPIDRIDE RR-20 SHELTER FOOTING (FOR RR206/RR208/RR208B/F22) REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS

DETAIL 1
SCALE: NONE ---

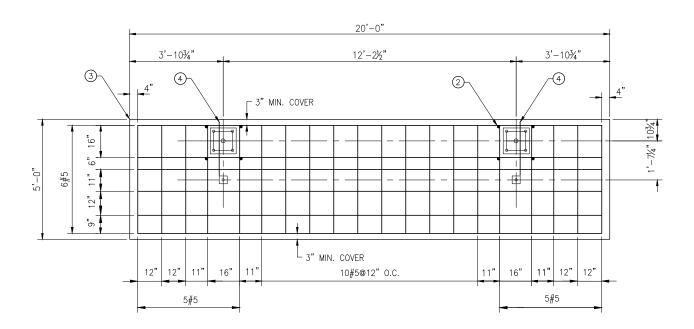
CONSTRUCTION NOTES

- JOINT PER DET <u>3/D101</u> TO ISOLATE EDGES FROM PAVEMENT, SIDEWALKS, OR OTHER STRUCTURES.
- 2. #4 VERTICAL EPOXY-COATED BARS 6" EMBEDMENT INTO SOIL FOR RESTRAINT (TYP).
- 3. POINT OF REFERENCE, (SEE NOTE 1/D101).
- 4. 20" LONG #5 REBAR @ 6" OFFSET FROM THE ADJACENT REBAR. BOTH TOP & BOTTOM LAYERS.



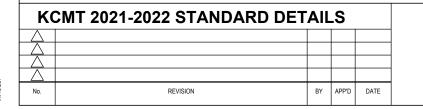
RAPIDRIDE RR-20 SHELTER FOOTING (FOR F-22)

DETAIL 2
SCALE: NONE ---



RAPIDRIDE RR-20 SHELTER FOOTING (FOR RR206/RR208/RR208B)

DETAIL 3
SCALE: NONE ---





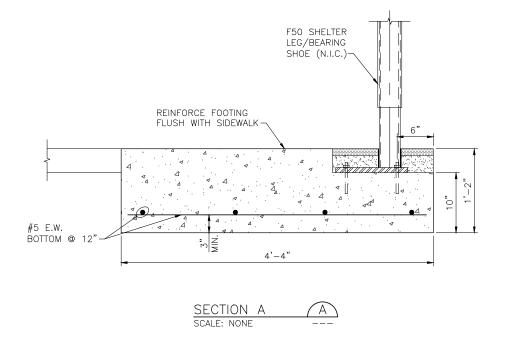
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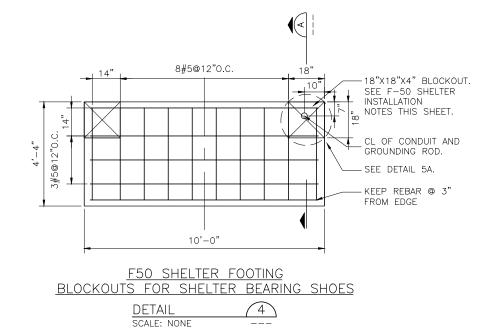


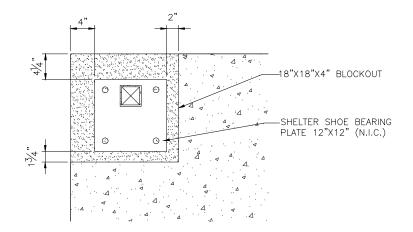
METRO TRANSIT CAPITAL DIVISION
TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

RAPIDRIDE SHELTER FOOTING REBAR LAYOUT DETAILS

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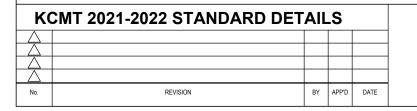






SHELTER SHOE BEARING PLATE LOCATION (N.I.C)











PLAN AND DETAILS

05/2022

D101C SHEET NO: OF

7 20

SCALE: NONE

METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS F-50 SHELTER FOUNDATION

F50 SHELTER INSTALLATION NOTES

INSTALLED.

1. F50 SHELTER FRAME SHALL BE INSTALLED AT SITE WITH LONGITUDINAL SLOPE NOT MORE THAN 5% 2. KEEP THE BEARING SHOE BLOCKOUTS IN-PLACE AFTER

FOOTING CONSTRUCTION UNTIL SHELTER IS TO BE

3. UPON COMPLETION OF SHELTER INSTALLATION FILL THE

ADJACENT SURFACE. SEE SECTION A THIS SHEET.

BEARING SHOE BLOCKOUTS IMMEDIATELY TO FLUSH WITH

F50 BEARING SHOE INSTALLATION NOTES (N.I.C.)

HIT-RE-500 EPOXY. TYPICAL FOR FOUR.

(1) EMBED $\frac{3}{4}$ " DIA S.S. THREADED ROD AT LEAST 6-3/4" INTO FOOTING. USE HILTI

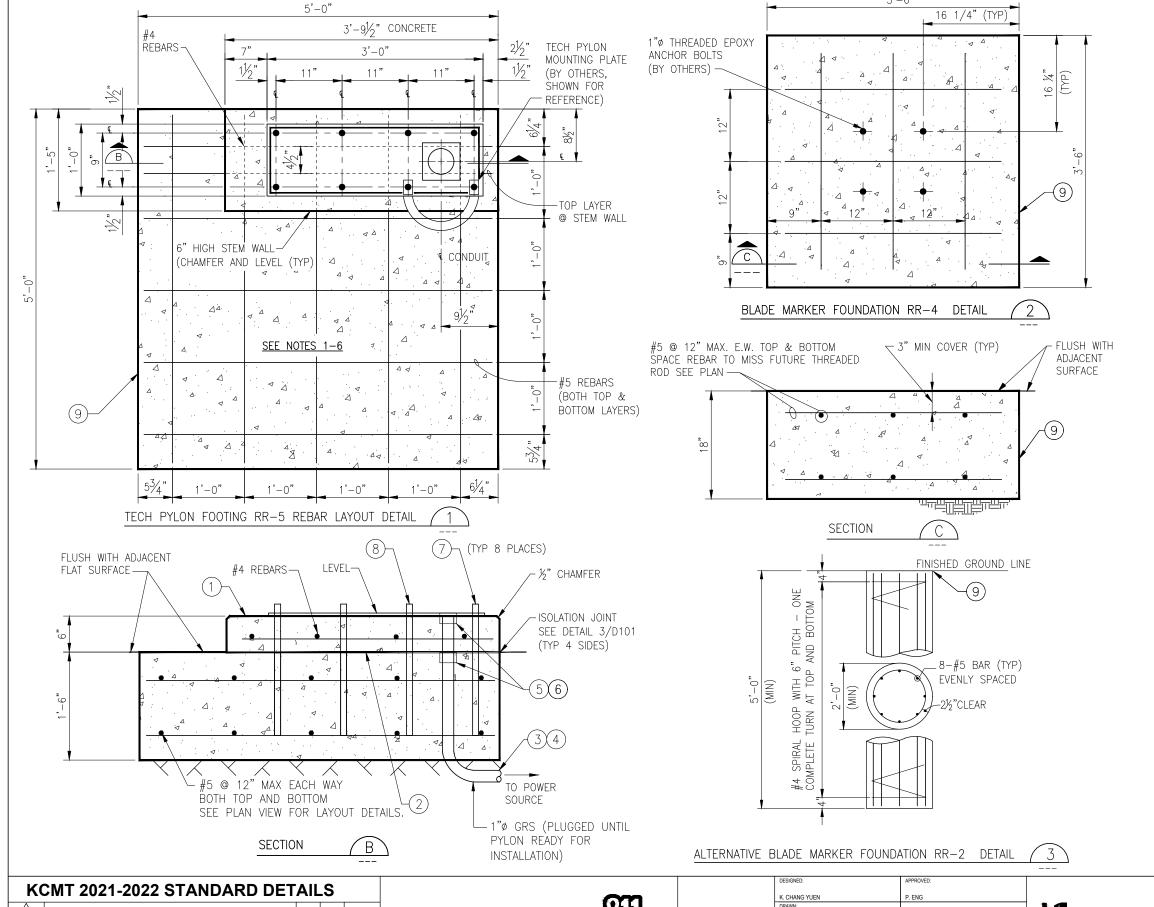
(2) 1½" THICK OWEN CORNING INSULATION BOARD. BORE HOLES TO ACCOMMODATE ANCHOR BOLTS AND NUTS.

4 APPLY APPROX. 1¼" THICK FIBER-REINFORCED CEMENT, FLUSH WITH

(3) WRAP BOTTOM 4" OF BEARING SHOE WITH 3M BLACK VINYL TAPES PRIOR TO APPLYING TOPPING COURSE.

SHELTER FOOTING. (INDUSTRIAL PRODUCT:

PROFLEX 1FR-INDUSTRIAL FLOOR REPAIR.)



CONSTRUCTION NOTES

- 1. UNLESS OTHERWISE STATED ON SITE PLANS. TECH PYLON FOOTING AND CURB (STEM WALL) SHALL BE POURED MONOLITHICALLY, SEE SECTION B. FOOTING SHALL BE FLUSH WITH ADJACENT SIDEWALK OR SITE IMPROVEMENT. STEM WALL (CURB) SHALL BE LEVEL
- 2. IF STEM WALL (CURB) IS CONSTRUCTED SEPARATELY FROM THE FOOTING, ROUGHEN THE FOOTING SURFACE OVER THE AREA OF CONTACT WITH THE WALL, CLEAN IT THOROUGHLY AND COAT IT WITH AN EPOXY BONDING AGENT PRIOR TO PLACING THE CONCRETE FOR THE STEM WALL.
- 3. ALL NEW CONDUIT INSTALLED UNDERGROUND SHALL HAVE A MINIMUM COVER OF 24 INCHES.
- 4. PLACE 6 INCH WIDE MAGNATEK WARNING TAPE, OR APPROVED EQUAL, 12 INCHES BELOW GRADE OVER ALL CONDUIT RUNS.
- 5. STUB UP THE CONDUIT AS INDICATED WITH A COUPLING INSTALLED ON THE STUBBED UP END WITH THE TOP OF THE COUPLING FLUSH WITH FINISHED SURFACE. A THREADED MALE PLUG SHALL BE INSTALLED IN THE TOP OF THE COUPLING AT THE TIME OF THE FOOTING/STEM WALL PLACEMENT. WRAP PLUG, COUPLING AND TOP 2 INCHES OF CONDUIT WITH DUCT TAPE PRIOR TO POURING CONCRETE
- 6. EPOXY ALL JOINTS TO ENSURE WATER CANNOT ENTER THE CONDUIT THROUGH THE CONNECTION. DO NOT EPOXY THE PLUG.
- 7. 1" φ GALVANIZED A36 THREADED ROD. 24" LONG WITH 3" ABOVE FINISHED GRADE OF STEM WALL. USE TEMPLATE TO ENSURE ANCHORING RODS ARE SET PRECISELY AND PLUMB. IF STEM WALL IS CONSTRUCTED SEPARATELY FROM PYLON FOUNDATION, DRILL 11/8" HOLE (8 TYP). SECURE IN PLACE WITH NON-SHRINK EPOXY 1" S.S. THREADED ROD (TYP) OR 1"ø F1554 GR 36 ANCHOR ROD. MIN. EMBED INTO UNDERLYING FOUNDATION AT LEAST 1'-3".
- 8. SECURE TWO TRAFFIC CONES ON STEM WALL TO PREVENT TRIPPING HAZARD. FASTEN EACH CONE WITH TWO WASHERS AND NUTS ON ANCHOR RODS UNTIL PYLON IS INSTALLED BY OTHERS.
- 9. JOINT PER DET 3/D101 TO ISOLATE EDGES FROM PAVEMENT, SIDEWALKS, OR OTHER STRUCTURES.

APP'D DATE



DESIGNED:	APPROVED:	
K. CHANG YUEN	P. ENG	
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L. ANDERSON		
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K. CHANG YUEN	-	
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C. ASQUITH	-	

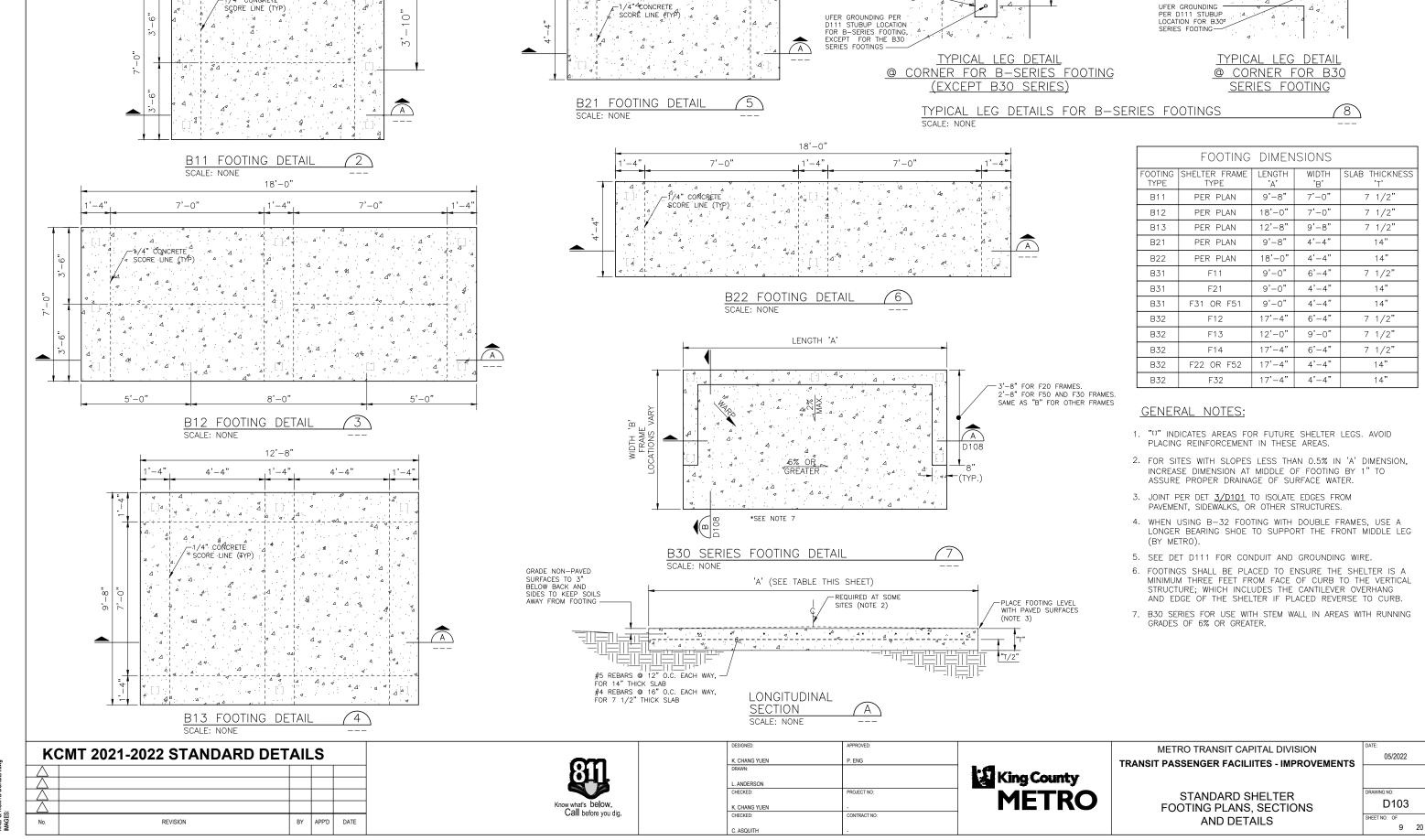
3'-6"

King County **METRO**

METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

RAPIDRIDE TECH PYLON AND BLADE MARKER FOOTING AND FOUNDATION DETAILS AND SECTIONS

05/2022 D102



9'-8"

7'-0"

CONCRETE

4" SQUARE SHELTER LEG 4" SOLIARE

STEM WALL

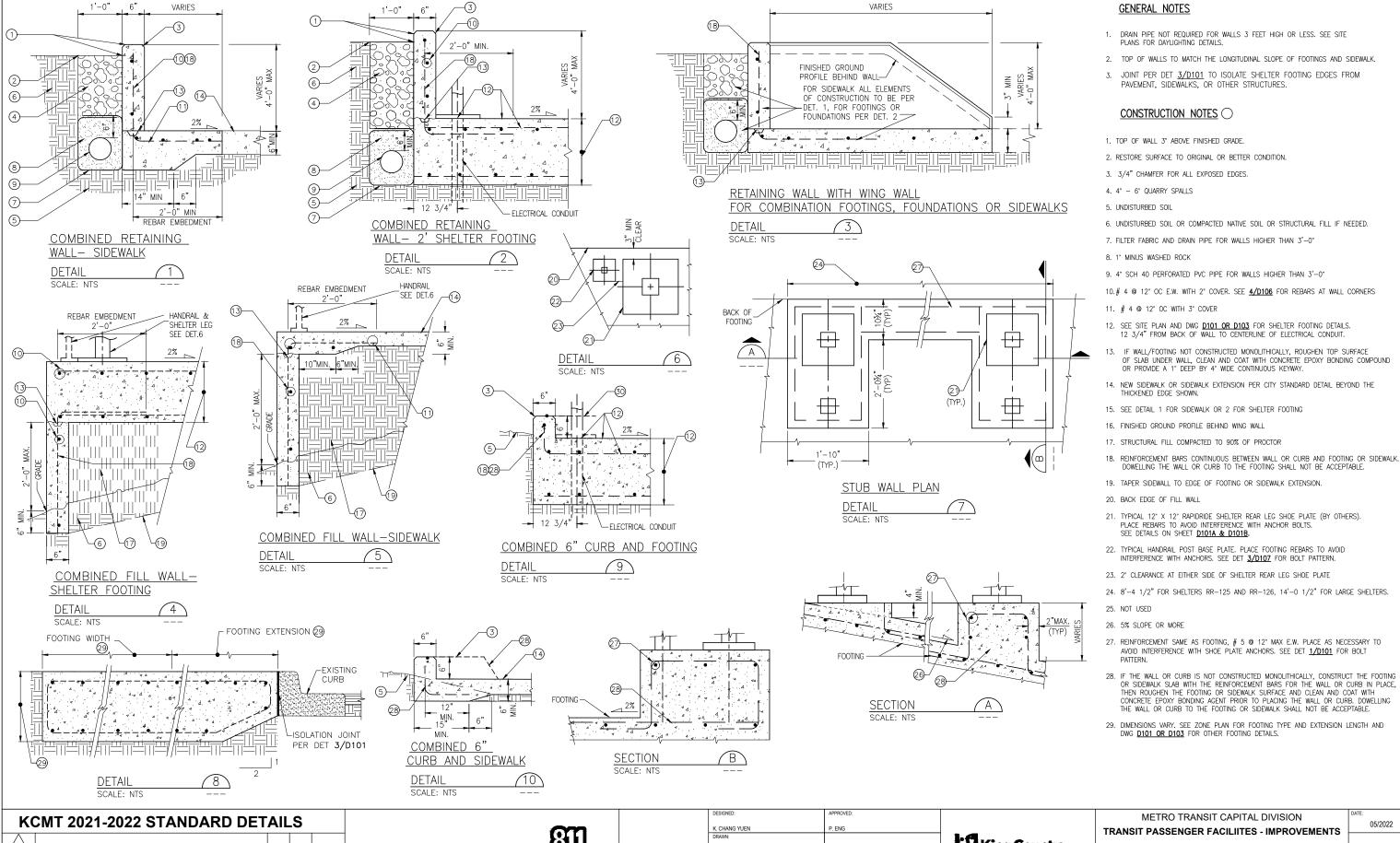
9'-8"

7'-0"

/4" CONGRÈTE

1'-4"

1'-4"



APP'D

DATE

Know what's below

Call before you dig.

.. ANDERSON PROJECT NO K. CHANG YUEN : ASOUITH

King County
METRO

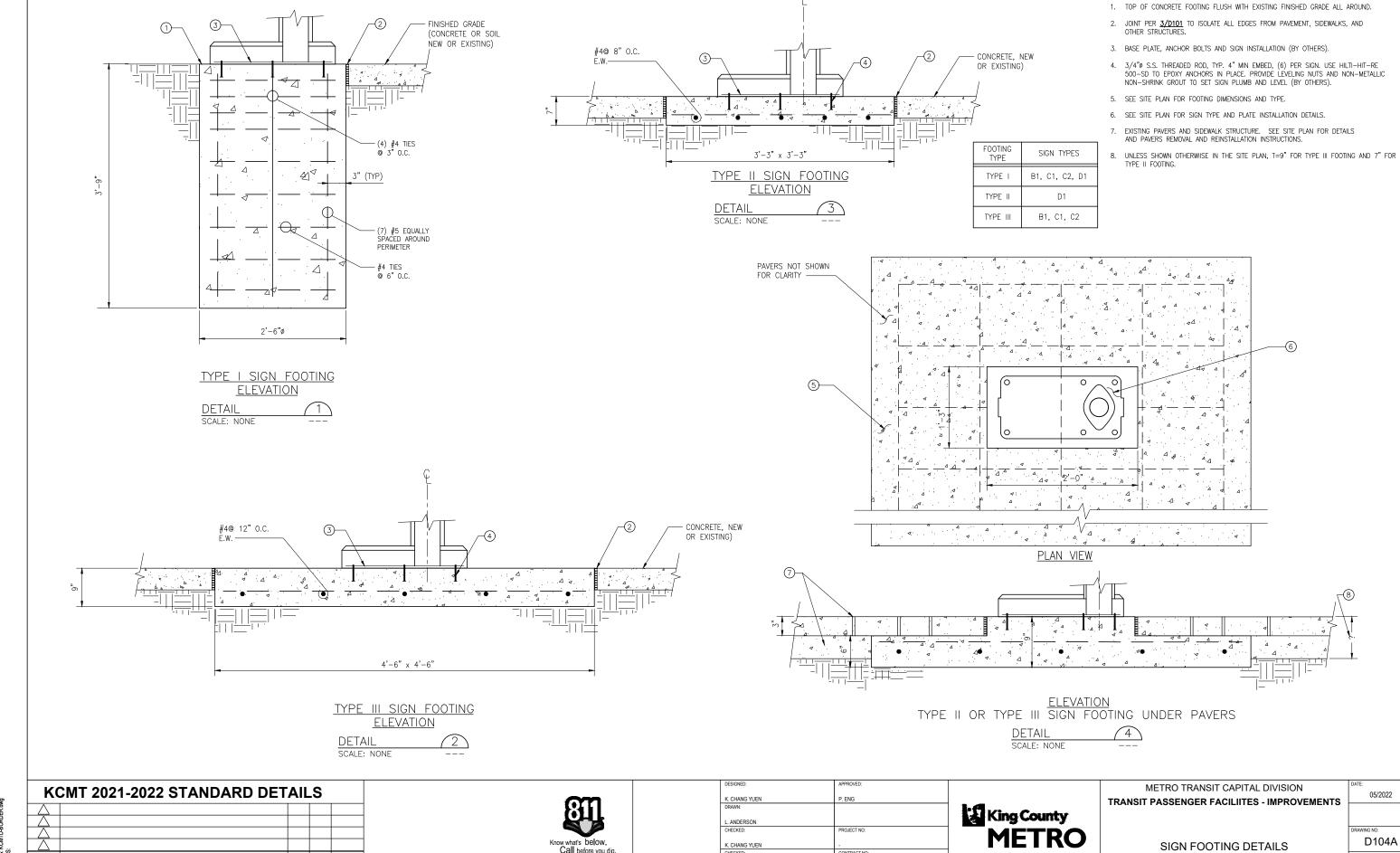
TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

D104

SECTIONS AND DETAILS

SHEET NO: OF 10 20

05/2022



K. CHANG YUEN

C. ASQUITH

Know what's below.

APP'D

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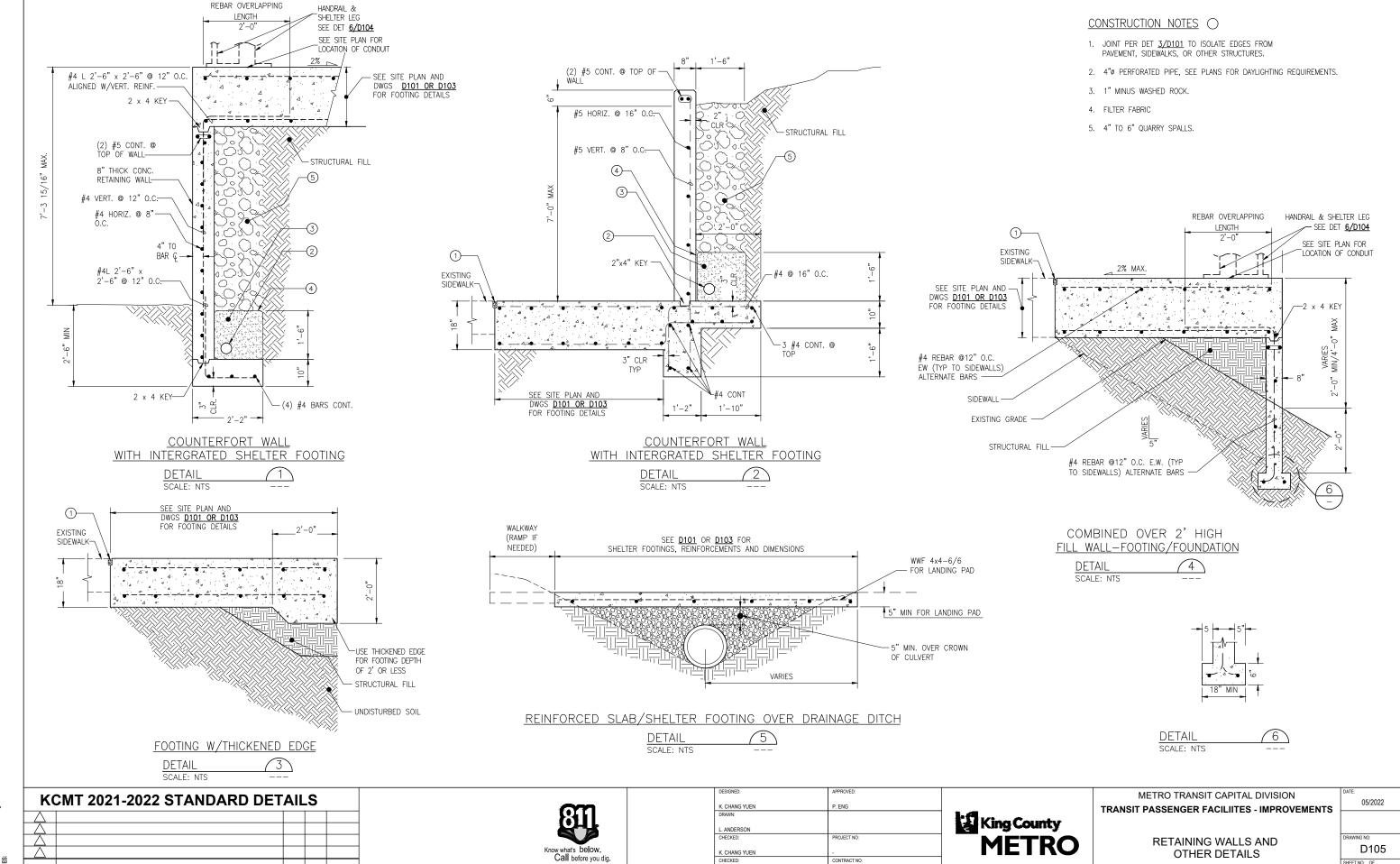
CONSTRUCTION NOTES

D104A

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SHEET NO: OF

SIGN FOOTING DETAILS



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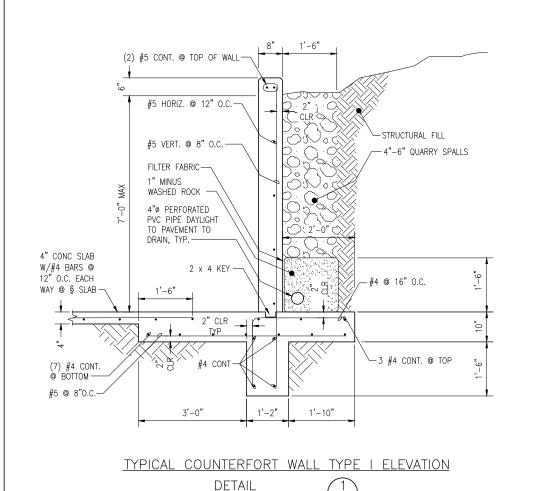
| VIDOT kingcounty, LeNTransit/DCICAD_Folders/Projects/passenger facilities/standard details/passenger facilities standar PLOTTED, May 19, 2022-01/08:19pm By dibennett XREFS: KCM/IPDGDRER, Awa

REVISION

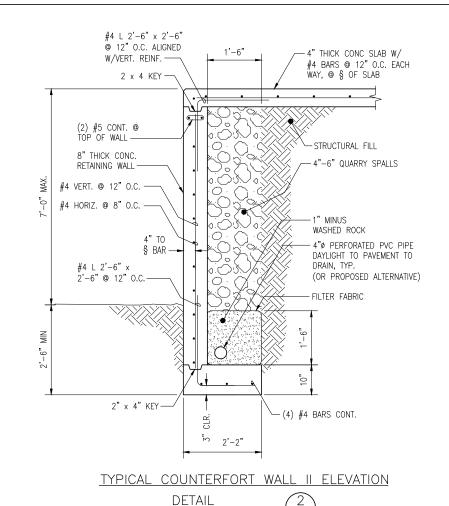
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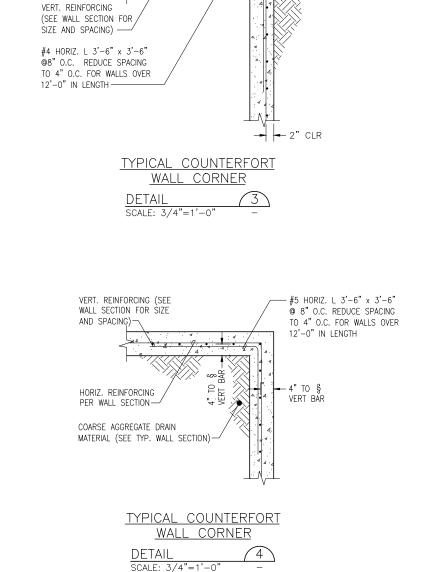




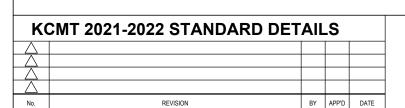
SCALE: 3/4"=1'-0"



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



HORIZ. REINFORCING PER WALL SECTION —





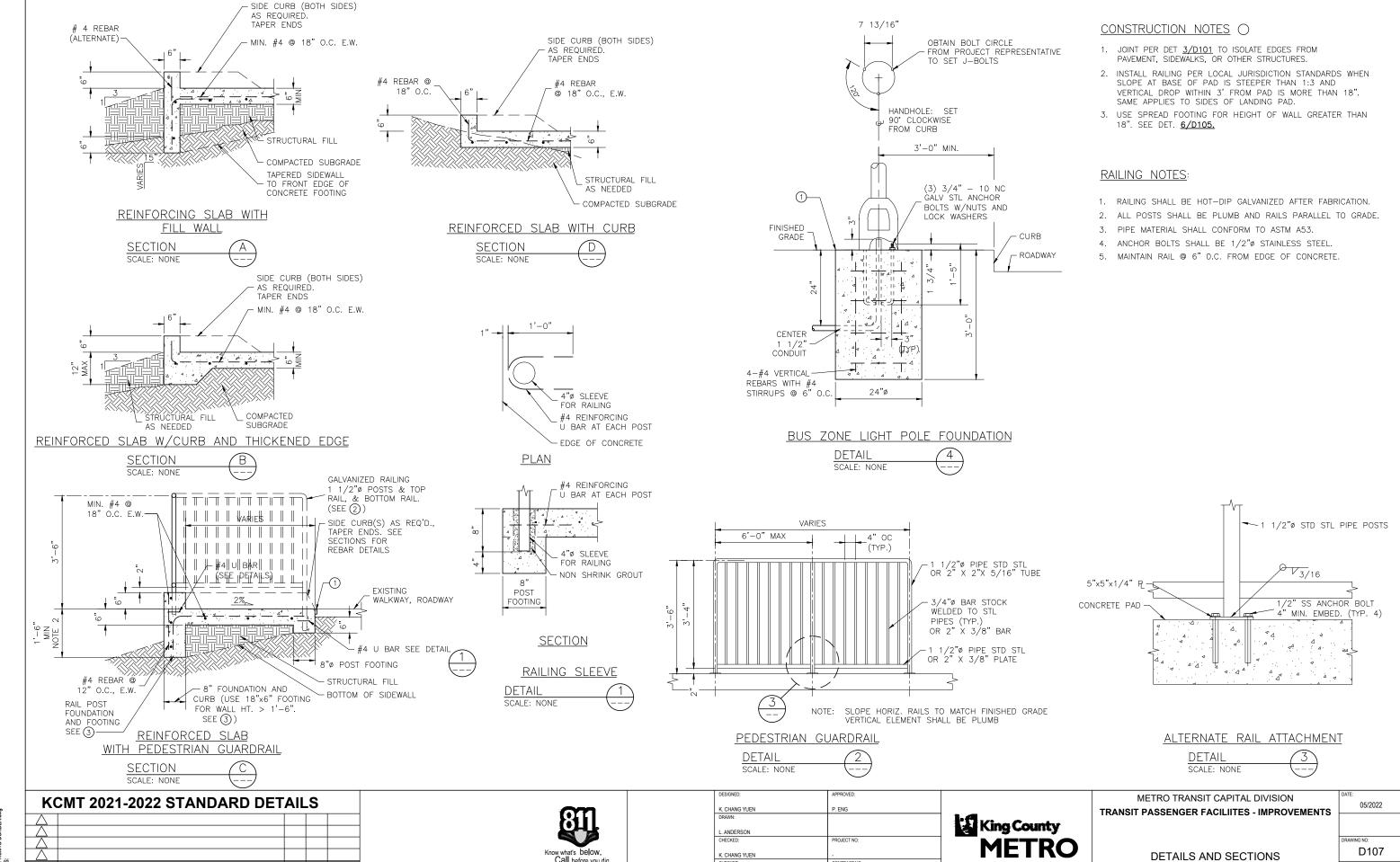
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TRANSIT PASSENGER FACILIITES - IMPROVEMENTS	F

COUNTERFORT WALL DETAILS

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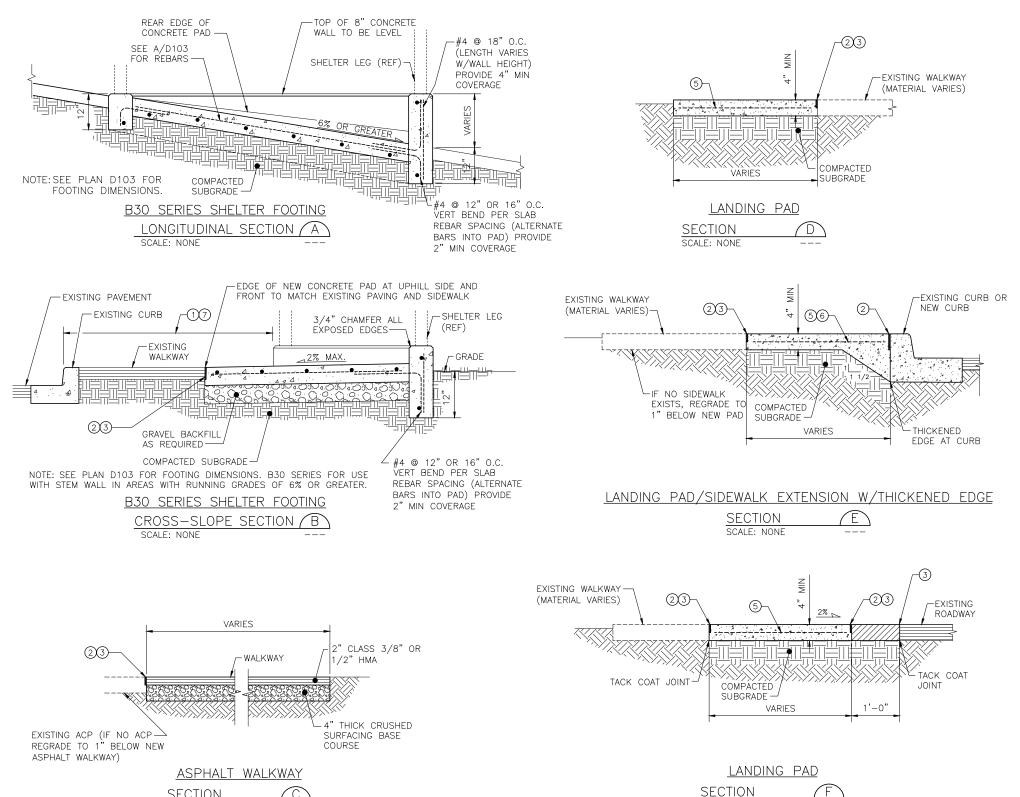
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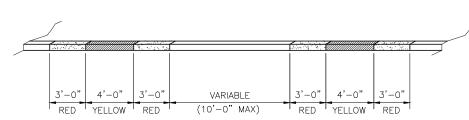
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DATE





1. NEW WALKWAYS AND LANDING PADS SHALL BE BUILT TO MATCH WITH EXISTING SURFACE

TO MAINTAIN NATURAL DRAINAGE COURSES. TYPICAL PASSENGER LANDING PAD DIMENSIONS SHALL BE AS SHOWN ON THE PLANS AND AS REQUIRED TO

MATCH EXISTING SIDEWALK JOINTS OR SCORES WHERE APPLICABLE.

1. FOR ADA, MINIMUM HORIZONTAL CLEARANCE BETWEEN FACE OF

2. JOINT PER DET 3/D101 TO ISOLATE EDGES FROM PAVEMENT, SIDEWALKS, OR OTHER STRUCTURES.

TO PLACE NEW CONSTRUCTION ELEMENTS.

MATCH EXISTING PAVEMENT THICKNESS.

6. WWF NOT NEEDED FOR SIDEWALK EXTENSION

OF CURB.

3. SAWCUT EXISTING PAVEMENT TO STRAIGHT VERTICAL LINES

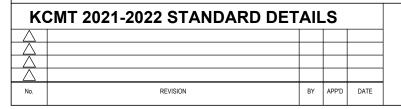
4. CLASS 1/2" HMA OR AS REQUIRED BY LOCAL JURISDICTION.

CURB AND FACE OF ANY STRUCTURE SHALL BE 4 FT. UNLESS

SHELTER SHALL BE PLACED SO VERTICAL STRUCTURE, INCLUDING CANTILEVER OVERHANG, SHALL BE A MINIMUM 3 FT FROM FACE

BUS ZONES ARE PAINTED ON TOP AND FACE OF CURB





SCALE: NONE





SCALE: NONE



GENERAL NOTES

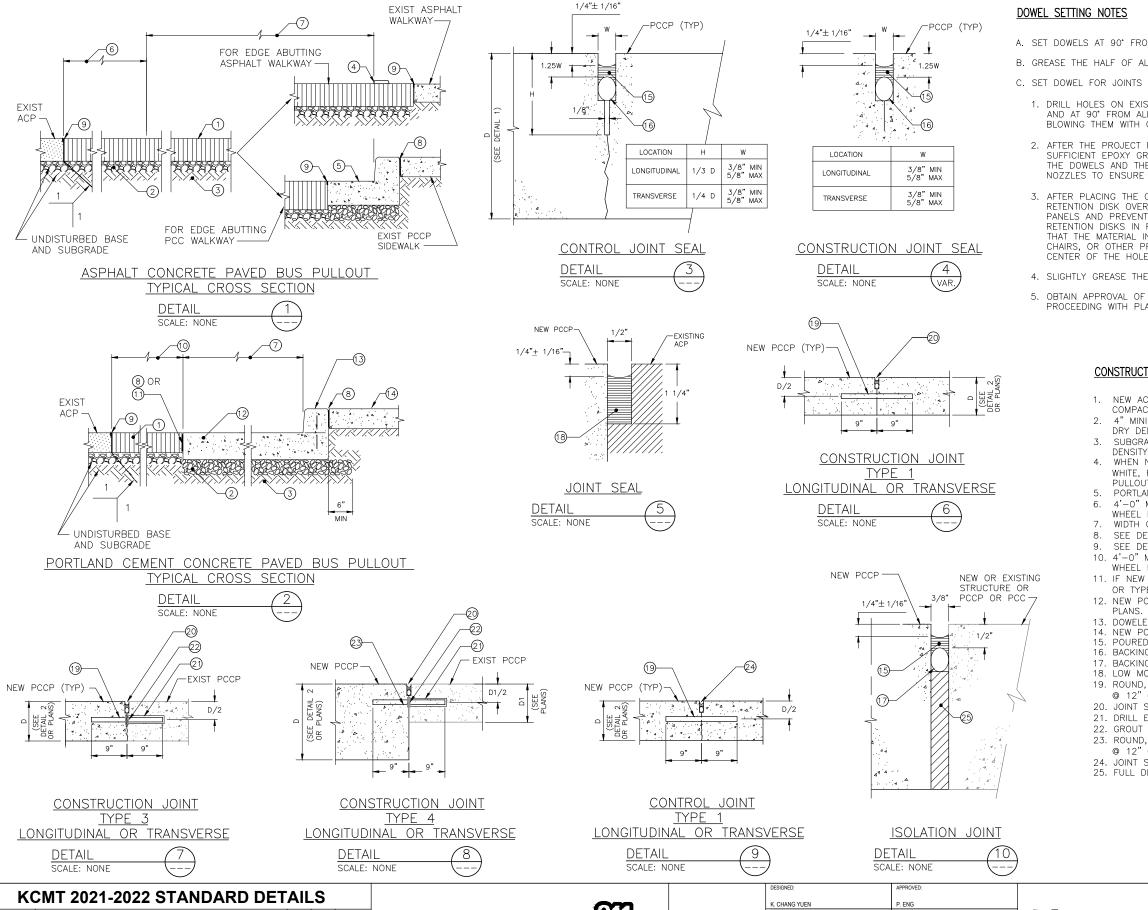
CONSTRUCTION NOTES ()

METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

> **B30 SERIES SHELTER FOOTING** CROSS SECTIONS, DETAILS AND BUS ZONE PAINTING

05/2022

D108 SHEET NO: OF



- A. SET DOWELS AT 90° FROM ALL POINTS OF THE FACE OF THE PCCP PANELS.
- B. GREASE THE HALF OF ALL DOWELS TO GO IN NEW PCCP.
- C. SET DOWEL FOR JOINTS BETWEEN NEW AND EXISTING PCCP FOLLOWING THE SUBSEQUENT PROCEDURES:
- 1. DRILL HOLES ON EXISTING PCCP PANELS THAT ARE 1/16" LARGER IN DIAMETER THAN THE DOWEL AND AT 90° FROM ALL POINTS OF THE FACE OF THE PANELS. REMOVE DEBRIS FROM HOLES BY BLOWING THEM WITH COMPRESSED AIR. ENSURE THAT THE HOLES ARE DRY.
- 2. AFTER THE PROJECT REPRESENTATIVE HAS VERIFIED COMPLIANCE WITH "1" ABOVE, PLACE SUFFICIENT EPOXY GROUT IN THE BACK OF THE HOLES TO COMPLETELY FILL THE GAP BETWEEN THE DOWELS AND THE WALL OF THE HOLES. USE FLEXIBLE TUBES OR CARTRIDGES WITH LONG NOZZLES TO ENSURE THAT THE GROUT IS PLACED AT THE BACK OF THE HOLES
- 3. AFTER PLACING THE GROUT AS DESCRIBED IN "2" ABOVE, PLACE A THIN, PLASTIC GROUT RETENTION DISK OVER THE DOWELS SO THEY WILL REST AGAINST THE FACE OF THE EXISTING PCCP PANELS AND PREVENT THE GROUT MATERIAL FROM FLOWING OUT OF THE HOLES. WITH THE RETENTION DISKS IN PLACE, INSERT THE DOWELS INTO THE HOLES WITH A TWISTING MOTION SO THAT THE MATERIAL IN THE BACK OF THE HOLES IS FORCED OUT AND AROUND THE DOWELS. USE CHAIRS, OR OTHER PRODUCT OF NON-CORRODING MATERIAL, TO MAINTAIN THE DOWELS AT THE CENTER OF THE HOLES, AND AT 90° FROM THE FACE OF THE PANEL.
- 4. SLIGHTLY GREASE THE PROTRUDING END OF THE DOWELS.
- 5. OBTAIN APPROVAL OF THE DOWEL INSTALLATION FROM THE PROJECT REPRESENTATIVE PRIOR TO PROCEEDING WITH PLACEMENT OF NEW PCCP.

CONSTRUCTION NOTES

- NEW ACP HMA CLASS 1/2", PG 70-22ER PER TSS 9.02.1(4), 7" MINIMUM COMPACTED THICKNESS, UNLESS OTHERWISE NOTED ON THE PLANS.
- 4" MINIMUM THICKNESS OF CRUSHED ROCK BASE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR, UNLESS OTHERWISE NOTED ON PLANS.
- SUBGRADE SCARIFIED TO 6" MINIMUM DEPTH AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE PER PROCTOR
- WHEN NEW PAVEMENT ABUTS EXISTING AC PAVED WALKWAYS PLACE MUTCD-APPROVED, WHITE, REFLECTIVE, RAISED PAVEMENT MARKERS AT 12" OC AT THE EDGE OF THE PULLOUT LANE
- PORTLAND CEMENT CONCRETE CURB AND GUTTER.
- 4'-0" MINIMUM, OR AS REQUIRED TO SET JOINT AWAY FROM VEHICLES NORMAL WHEEL PATH.
- WIDTH OF PULLOUT LANE AS SHOWN ON PLANS.
- SEE DETAIL 10/--.
- SEE DETAIL 5/--
- 10. 4'-0" MINIMUM, OR AS REQUIRED TO SET JOINT AWAY FROM VEHICLES NORMAL WHEEL PATH. USE ONLY IF NEW PCCP ABUTS EXISTING ACP. SEE NOTE 11.
- 11. IF NEW PCCP ABUTS EXISTING PCCP USE CONSTRUCTION JOINT TYPE 3, DETAIL 7/--OR TYPE 4, DETAIL 8/--
- 12. NEW PCCP CLASS C-1, 10" MINIMUM THICKNESS, UNLESS OTHERWISE SHOWN ON
- 13. DOWELED CURB PER 7/D109.
- 14. NEW PCC SIDEWALK OR LANDING PAD, AS SHOWN ON PLANS.
- 15. POURED SILICONE JOINT SEALANT.
- 16. BACKING ROD Ø= 1.25W.
- 17 BACKING ROD Ø= 1/2"
- 18. LOW MODULUS HOT-POUR RUBBERIZED ASPHALT JOINT SEALANT.
- 19. ROUND, EPOXY-COATED, GRADE 60 SMOOTH STEEL DOWEL BAR, $\phi = 1/8D$, 18" LONG @ 12" OC (SEE NOTES A & B).
- 20. JOINT SEAL PER DETAIL 4/--
- 21. DRILL EXISTING PCCP TO SET DOWELS IN EPOXY GROUT (SEE NOTE C).
- 22. GROUT RETENTION DISK (SEE NOTE C).
- 23. ROUND, EPOXY-COATED, GRADE 60 SMOOTH STEEL DOWEL BAR, Ø= 1/8DI, 18" LONG @ 12" OC (SEE NOTES A & B).
- 24. JOINT SEAL PER DETAIL 3/--. 25. FULL DEPTH PREMOLDED EXPANSION JOINT FILLER.

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No.	REVISION	BY	APP'D	DATE					



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L. ANDERSON		
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CHECKED:	CONTRACT NO:	
C. ASQUITH	-	

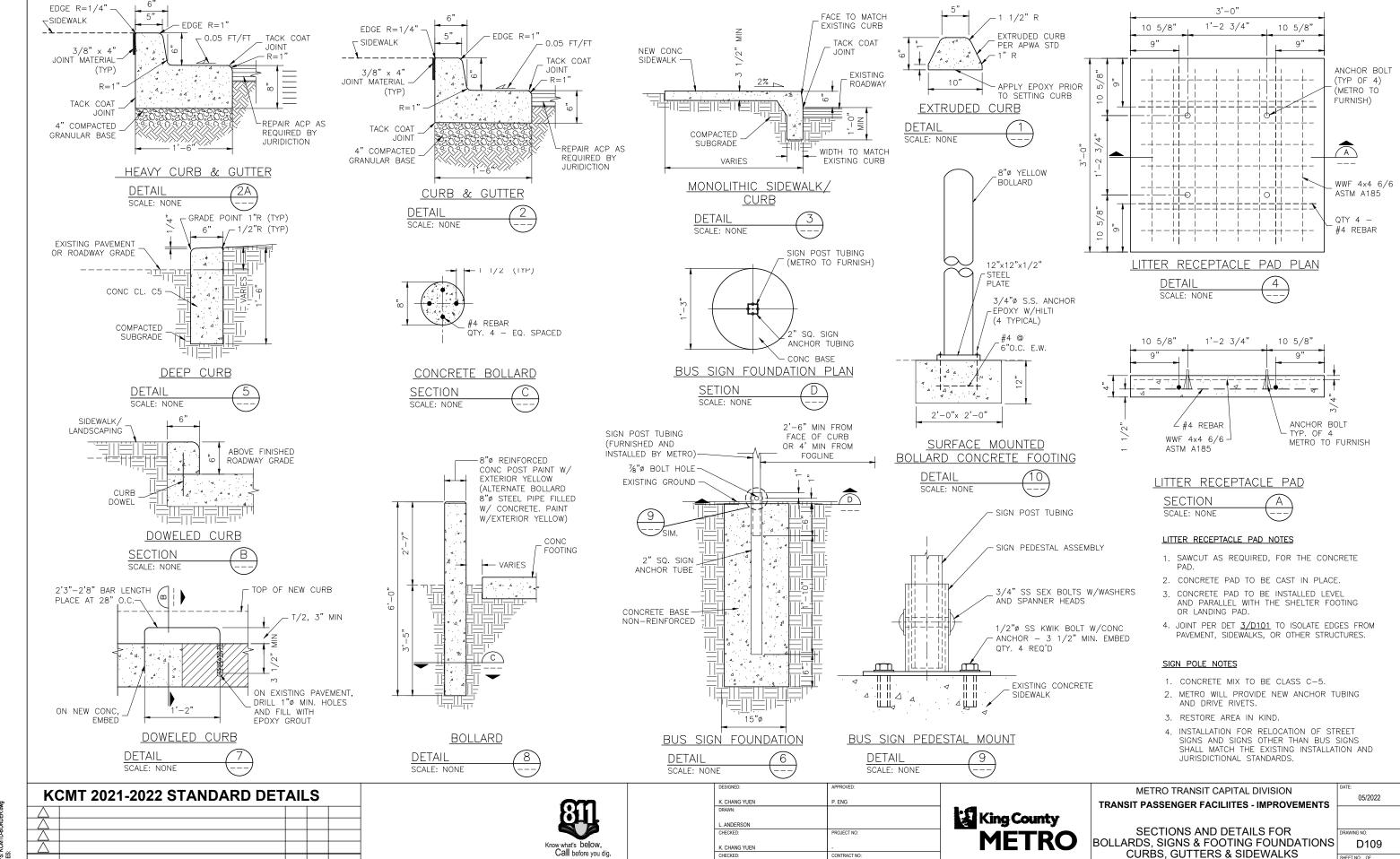


METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

05/2022

PAVING AND JOINT DETAILS

D108A SHEET NO: OF 16 20



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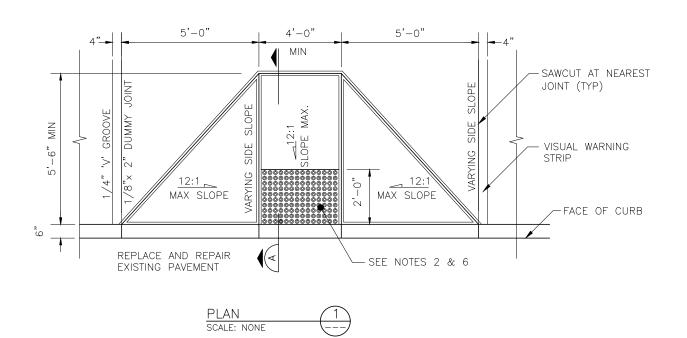
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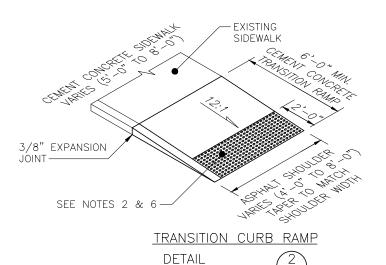
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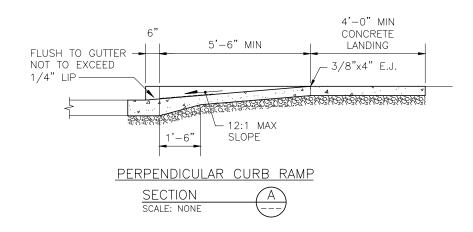


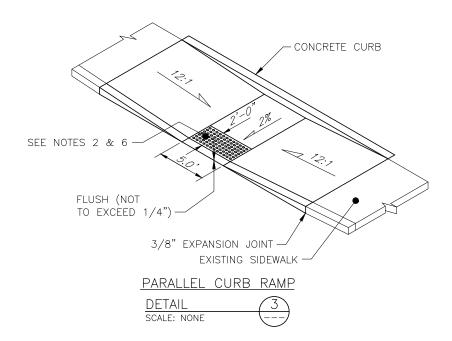


SCALE: NONE



- 1. RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCLUDING HYDRANTS, POLES, AND INLETS.
- 2. RAMP SHALL HAVE DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10-01.
- 3. RAMP © SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY THE PROJECT REPRESENTATIVE
- 4. WHERE REQUIRED BY THE JURISDICTIONAL AGENCY STANDARDS, PLACE A 4" WIDE VISUAL WARNING STRIP BETWEEN JOINTS OR SCORES.
- 5. REMOVAL OF EXISTING CURB RAMPS OR SIDEWALK FOR CONSTRUCTION OF NEW CURB RAMPS SHALL BE TO THE NEAREST JOINT. SAWCUT AT EXPANSION JOINT AS REQUIRED. REMOVE SIDEWALK AND CURB AND GUTTER AS REQUIRED TO OBTAIN ADEQUATE SPACING FOR NEW CURB RAMP TRANSITION AND WARNING STRIP(WHERE REQUIRED).
- 6. CURB RAMP LOCATION AND CONSTRUCTION ON ARTERIAL AND RESIDENTIAL STREETS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE JURISDICTIONAL AGENCY.





K	KCMT 2021-2022 STANDARD DETAILS							
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No.	REVISION	BY	APP'D	DATE				



DESIGNED:	APPROVED:
K. CHANG YUEN	P. ENG
DRAWN:	
L. ANDERSON	
CHECKED:	PROJECT NO:
K. CHANG YUEN	-
CHECKED:	CONTRACT NO:
C. ASQUITH	-



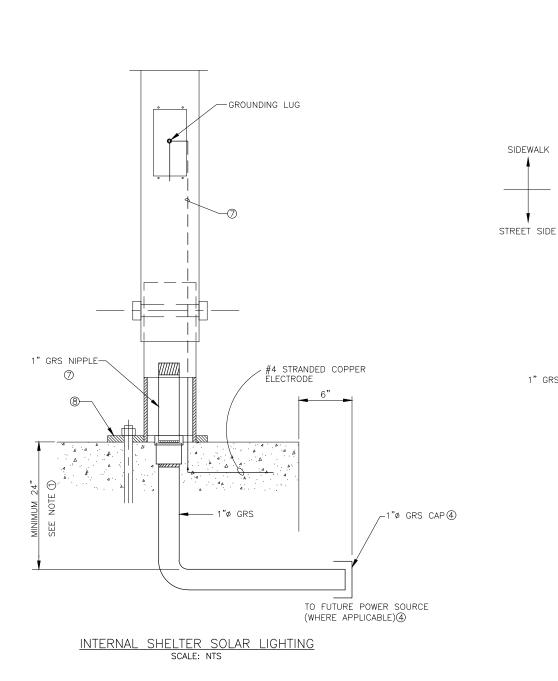
METRO TRANSIT CAPITAL DIVISION

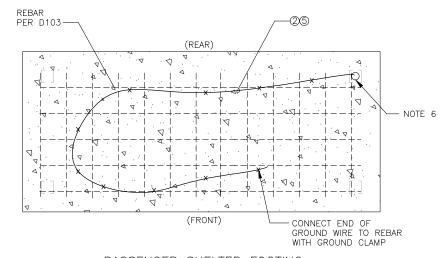
TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

CURB RAMP CONSTRUCTION DETAILS

DATE:
05/2022
DRAWING NO:
D110

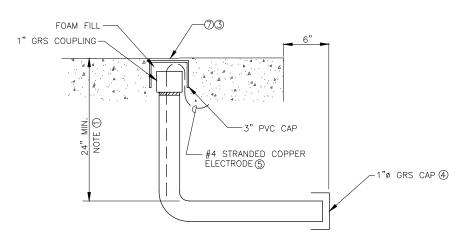
SHEET NO: OF 18 20





PASSENGER SHELTER FOOTING

(SEE DWGS D101 & D103 FOR SHELTER FOOTING
DETAILS AND DIMENSIONS)



DETAIL "1"

INTERNAL SHELTER LIGHTING

BURIED CONDUIT AND GROUNDING ELECTRODE

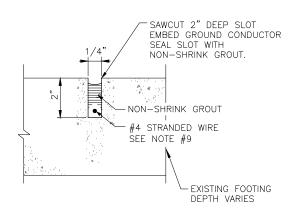
SCALE: NTS

GENERAL NOTES:

1. THIS CONDUIT/GROUNDING ELECTRODE DESIGN IS FOR BUS STOPS WHERE HARD-WIRE ELECTRICAL CONNECTION IS NOT READILY AVAILABLE. IT ALLOWS FOR FUTURE HARD-WIRE CONNECTION FOR 110V SHELTER LIGHTING AND/OR GROUNDING FOR A SOLAR SHELTER LIGHTING SYSTEM.

CONSTRUCTION NOTES:

- 1. CONDUIT SHALL BE INSTALLED 24" BELOW FINISHED GRADE.
- 2. FOR SHELTER GROUNDING, TIE 25 FEET OF #4 STRANDED COPPER GROUNDING ELECTRODE TO THE SHELTER FOUNDATION REBARS WITH TIE WIRES. LEAVE 2 FEET AT THE END FOR ATTACHMENT TO THE GROUNDING LUG ON THE SHELTER LEG. PROVIDE ONE HOLE COPPER LUG SHORT BARREL THOMAS & BETTS #54130 ON END OF GROUND WIRE. SEE DETAIL "1" AND NOTE 3 BELOW. (REFER TO NOTE 11 ON D101 IF SHELTER FOOTING IS DESIGNED FOR BOTH INTERIM STANDARD SHELTER AND FUTURE RAPIDRIDE SHELTER).
- 3. PLACE THE 2 FT. #4 13 STRANDED BARE COPPER GROUND ELECTRODE INTO THE 1" DIA GRS CONDUIT AS SHOWN IN DETAIL "1". SECURE 1" GRS COUPLING IN PLACE. SEAL THE GRS CONDUIT/COUPLING WITH DUCT TAPE. CAP THE ASSEMBLY WITH A 3" PVC CAP AND FILL VOID WITH SPRAY—ON FOAM. TOP OF PVC CAP SHALL BE ¼" BELOW THE FINISHED CONCRETE GRADE.
- 4. IF NO SPECIFIED CONNECTION TO A POWER SOURCE, THE 1" GRS CONDUIT SHALL BE EXTENDED 6 INCHES BEYOND THE EDGE OF SHELTER FOUNDATION AND CAPPED.
- 5. THE #4 13 STRANDED BARE COPPER GROUND ELECTRODE SHALL BE ENCLOSED BY AT LEAST 2" OF CONCRETE IN ACCORDANCE WITH NEC 250.52 (A) (3).
- 6. FOR STANDARD METRO SHELTERS, ELECTRICAL LEG SHALL BE AT THE REAR RIGHT CORNER. FOR RAPID RIDE SHELTERS, ELECTRICAL LEG SHALL BE AT THE REAR LEFT CORNER. (LOOKING INTO SHELTER) SEE TABLE ON DWG. D101 AND D103 FOR EXACT LOCATIONS OF THE ELECTRICAL LEG FOR VARIOUS FOOTING TYPES.
- 7. (INFORMATION FOR METRO'S SHELTER CREW: PRIOR TO INSTALLING SHELTER WITH A SOLAR LIGHTING SYSTEM, CHIP AWAY THE 1/4" CONCRETE COVER AND REMOVE THE 3" PVC CAP. PULL OUT THE #4 COPPER ELECTRODE. CONNECT THE ELECTRODE TO THE SHELTER LEG VIA A GROUNDING LUG. SEAL THE 1" DIA GRS WITH A WATER—TIGHT PLUG FOR FUTURE USE.)
- 8. ALL WORK ABOVE FINISHED GRADE IS BY OTHERS.
- 9. SAW 8"X2"X1/4" GROOVE IN EXISTING SHELTER FOOTING, CLEAN THE GROOVE AND EMBED GROUND CONDUCTOR. LEAVING 6" EXPOSED ABOVE SURFACE FILL GROOVE WITH NON—SHRINK GROUT.

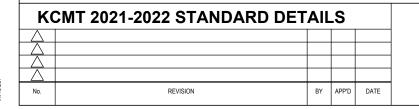


SOLAR SHELTER FOOTING RETROFIT

SECTION

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

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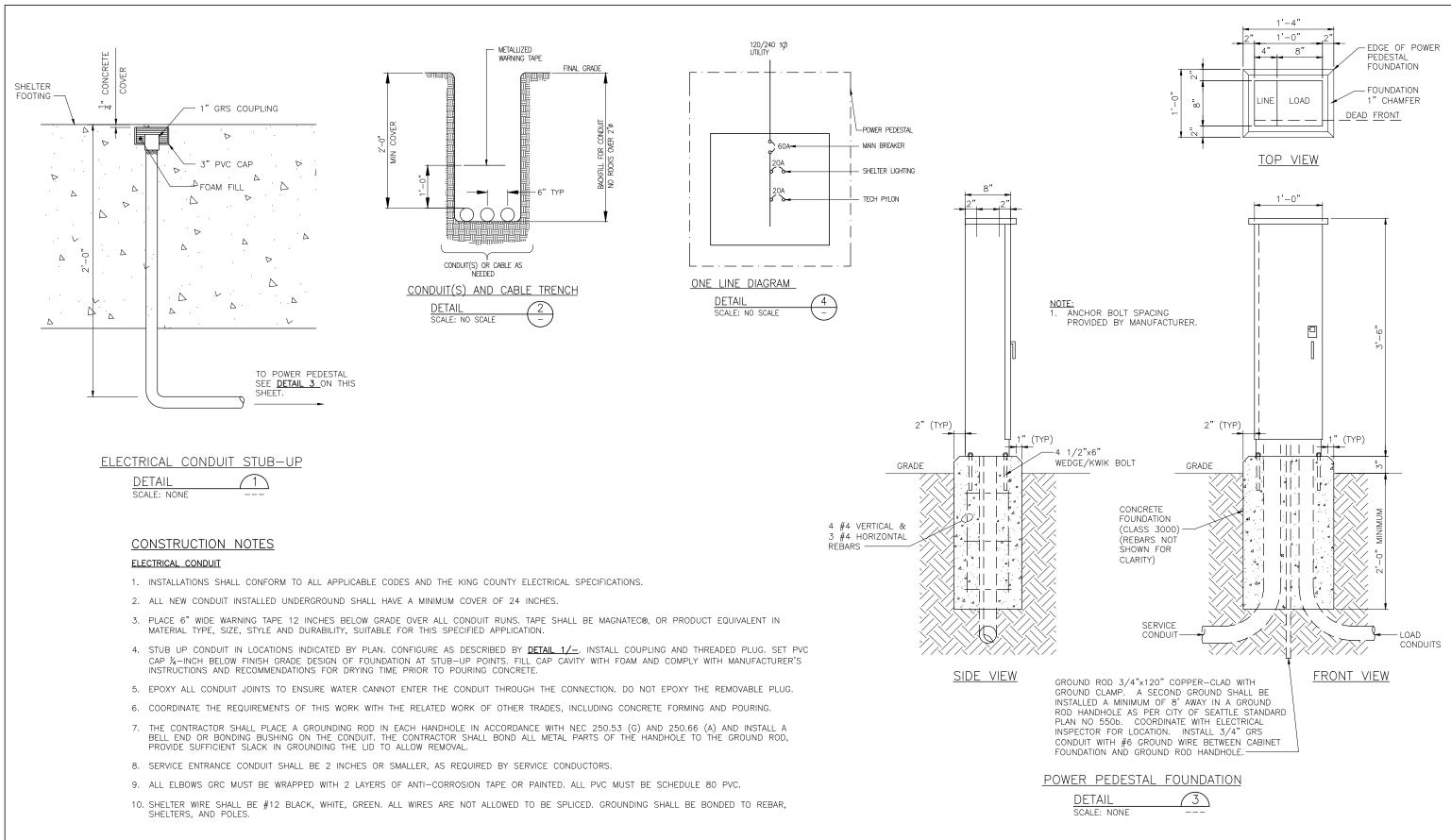
METRO TRANSIT CAPITAL DIVISION

TRANSIT PASSENGER FACILIITES - IMPROVEMENTS

INTERNAL SOLAR SHELTER LIGHTING ELECTRICAL DETAILS DATE: 12/2021

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