



OFF PREMISES ATM
ROLLING MEADOW SHOPPING CENTER
4706 COTTAGE GROVE RD.
MADISON, WI 53716

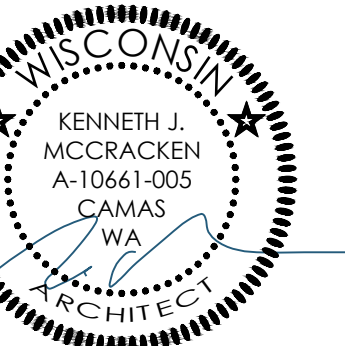
KEN MCCrackEN,
ARCHITECT

Architecture - Program Management - Permitting

19120 SE 34TH STREET
 SUITE 115
 VANCOUVER, WA 98683
 PROJECT CONTACT: MIKE BRIGGS
 PHONE: 972.201.9317
 EMAIL: mbriggs@prndginc.com

KEN MCCrackEN, ARCHITECT

SEAL:



08/25/21

CONSULTANT:



US BANK

STORE NO.: N/A

ROLLING MEADOW SHOPPING CENTER
 4706 COTTAGE GROVE RD.
 MADISON, WI 53716

ABBREVIATIONS	ANNOTATION SYMBOL LEGEND	CODE ANALYSIS	PROJECT INFORMATION	REVISION																																																			
<p>Ø DIAMETER AT CENTER LINE POUND OF NUMBER</p> <p>A.B. ANCHOR BOLT A/C AIR CONDITIONING A.C. ASPHALTIC CONCRETE A.C.T. ACOUSTICAL CEILING TILE</p> <p>A.F.F. ABOVE FINISH FLOOR A.F.G. ABOVE FINISH GRADE ALT. ALTERNATE A.S.T.M. AMERICAN SOCIETY FOR TESTING & MATERIALS</p> <p>BLDG. BUILDING BOT. BOTTOM B.O. BOTTOM OF B.O.A. BACK OF HOUSE</p> <p>C.B. CATCH BASIN C.J. CONTROL JOINT CLG. CEILING CLR. CLEAR C.M.U. CONCRETE MASONRY UNIT</p> <p>C/O CLEANOUT COL. COLUMN COMM. COMMUNICATION CONC. CONCRETE CONT. CONTINUOUS CONTR. CONTRACTOR C.W. COLD WATER</p> <p>DEPT. DEPARTMENT DTL. DETAIL D.F. DRINKING FOUNTAIN DIA. DIAMETER DIM. DIMENSION DN. DOWN D.S. DOWN SPOUT DWG. DRAWING</p> <p>(E) EXISTING EA. EACH EIFS EXTERIOR INSULATION FINISH SYSTEM ELEC. ELECTRICAL ENCL. ENCLOSURE E.J. EXPANSION JOINT EQ. EQUAL EQUIP. EQUIPMENT EXST. EXISTING EXT. EXTERIOR</p> <p>F.D. FLOOR DRAIN F.F. FINISH FLOOR FIN. FINISH FLUOR. FLUORESCENT F.O. FACE OF F.R.F. FIBERGLASS REINFORCED PANEL</p> <p>F.S. FLOOR SINK FT. FOOT/FEET FTG. FOOTING FURR. FURRING</p> <p>GA. GALVANIZED G.C. GENERAL CONTRACTOR G.I. GALVANIZED IRON GND. GROUND GR. GRADE GYP. BD. GYPSUM BOARD</p> <p>H.B. HOSE BIBB H.C. HOLLOW CORE HDR. HEADER HDW. HARDWARE HR. HOUR H.M. HOLLOW METAL HOR. HORIZONTAL HTG. HEATING HVAC HEATING VENTILATION & AIR CONDITIONING H.W. HOT WATER</p> <p>I.E. INVERT ELEVATION INSUL. INSULATION INT. INTERIOR</p> <p>LAM. LAMINATED LAV. LAVATORY LBS. POUNDS LL. LANDLORD</p> <p>MAX. MAXIMUM MDF. MEDIUM DENSITY FIBERBOARD MECH. MECHANICAL</p> <p>MTL. METAL MFR. MANUFACTURER M.H. MAN HOLE MIN. MINIMUM MISC. MISCELLANEOUS MTD. MOUNTED M.O. MASONRY OPENING MUL. MULLION</p> <p>(N) NEW N.I.C. NOT IN CONTRACT NUMBER N.O. NON RATED N.T.S. NOT TO SCALE</p> <p>-O- ON CENTER O.D. OUTSIDE DIMENSION OPP. OPPOSITE</p> <p>P.L. PROPERTY LINE PLBG. PLUMBING PLWD. PLYWOOD P.O.C. POINT OF CURVATURE P.S.I. POUNDS PER SQUARE INCH P.T. PRESSURE TREATED</p> <p>R. RISER (R) RELOCATED RAD. RADIUS R.D. ROOF DRAIN</p> <p>RE. REFERENCE REFR. REFRIGERATED REINF. REINFORCED RECID. REQUIRED RM. ROOM R.O. ROUGH OPENING R.O.W. RIGHT OF WAY RCP. REFLECTED CEILING PLAN</p> <p>S. SOLID CORE SCHED. SCHEDULE SECT. SECTION SHT. SHEET SIM. SIMILAR SPEC. SPECIFICATION SQ. SQUARE S.S. STAINLESS STEEL ST. STEEL STD. STANDARD STOR. STORAGE STRUCT. STRUCTURAL S.O.V. SHUT OFF VALVE SUSP. SUSPENDED</p> <p>T. TREAD TEL. TELEPHONE TEMP. TEMPERATURE T & G TONGUE & GROOVE T.O. TOP OF TYP. TYPICAL</p> <p>U. UNLESS NOTED OTHERWISE UNDERWRITERS LABORATORY</p> <p>VERT. VERTICAL V.C.T. VINYL COMPOSITE TILE V.T.R. VENT THROUGH ROOF</p> <p>V.I.F. VERIFY IN FIELD</p> <p>W. WITH W.C. WATER CLOSET WD. WOOD W.H. WATER HEATER W/O WITHOUT W.W.F. WELDED WIRE FABRIC</p>	<p>PLAN DETAIL REFERENCE SHEET NUMBER THIS SIGNIFIES DETAIL IS ON SAME SHEET</p> <p>ELEVATION REFERENCE SHEET NUMBER</p> <p>SUB-ELEVATION LETTER ELEVATION REFERENCE SHEET NUMBER</p> <p>PLAN DETAIL REFERENCE SHEET NUMBER</p> <p>SECTION REFERENCE SHEET NUMBER</p> <p>DETAIL SECTION REFERENCE SHEET NUMBER</p> <p>ELEVATION HEIGHT ELEVATION LOCATION LAYOUT STARTPOINT</p> <p>DOOR NUMBER</p> <p>WINDOW TYPE</p> <p>WALL TYPE</p> <p>KEYNOTE</p> <p>EQUIPMENT CALLOUT</p> <p>REVISION NUMBER</p> <p>ROOM NAME ROOM NUMBER</p> <p>COLUMN GRID LINE NUMBER</p> <p>FINISH CALLOUT</p> <p>CEILING HEIGHT CEILING FINISH CALLOUT</p>	<p>BUILDING SUMMARY CONSTRUCTION TYPE: V-B</p> <p>TOTAL AREA UNDER THIS PERMIT: 120 SF TOTAL BUILDING AREA: 18 SF</p> <p>BUILDING HEIGHT: 13'-4" (TOP OF PARAPET) NUMBER OF STORIES: 1 OCCUPANCY GROUPS: M (RETAIL)</p> <p>BUILDING CODES I.B.C. (2015) EDITION ANSI (2009) EDITION I.P.C. (2018) EDITION I.M.E.C. (2017) EDITION I.E.C. (2018) EDITION I.E.C.C. (2015) EDITION</p>	<p>PROPERTY INFORMATION: APN(S): 071010213165 PLANNING ZONE: CC-7 (COMMERCIAL CORRIDOR - TRANSITIONAL DISTRICT) COUNTY: DANE</p> <p>PROPERTY OWNER: UPWARDS PROPERTIES LLC., ET AL #225B 5940 SEMINOLE CENTRE CT. FITCH-BURG, WI 56711</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SHEET</th> <th>SHEET NAME</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">ARCHITECTURAL</td> </tr> <tr> <td>A00.00</td> <td>COVER SHEET</td> <td></td> </tr> <tr> <td>A00.11</td> <td>ACCESSIBILITY DETAILS</td> <td></td> </tr> <tr> <td>A01.00</td> <td>REFERENCE SITE PLAN</td> <td></td> </tr> <tr> <td>A01.10</td> <td>ENLARGED SITE PLAN</td> <td></td> </tr> <tr> <td>A01.50</td> <td>CONSTRUCTION PLAN & SITE DETAILS</td> <td></td> </tr> <tr> <td>5</td> <td>TOTAL ARCHITECTURAL SHEETS</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center;">STRUCTURAL</td> </tr> <tr> <td>S1.0</td> <td>GENERAL NOTES</td> <td></td> </tr> <tr> <td>S2.0</td> <td>PLAN, SECTIONS & DETAILS</td> <td></td> </tr> <tr> <td>2</td> <td>TOTAL STRUCTURAL SHEETS</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center;">ELECTRICAL</td> </tr> <tr> <td>E1.0</td> <td>ELECTRICAL SITE PLAN</td> <td></td> </tr> <tr> <td>E2.0</td> <td>ELECTRICAL PLANS, NOTES, & DETAILS</td> <td></td> </tr> <tr> <td>E3.0</td> <td>ELECTRICAL SPECIFICATIONS</td> <td></td> </tr> <tr> <td>3</td> <td>TOTAL ELECTRICAL SHEETS</td> <td></td> </tr> </tbody> </table>	SHEET	SHEET NAME	REVISION	ARCHITECTURAL			A00.00	COVER SHEET		A00.11	ACCESSIBILITY DETAILS		A01.00	REFERENCE SITE PLAN		A01.10	ENLARGED SITE PLAN		A01.50	CONSTRUCTION PLAN & SITE DETAILS		5	TOTAL ARCHITECTURAL SHEETS		STRUCTURAL			S1.0	GENERAL NOTES		S2.0	PLAN, SECTIONS & DETAILS		2	TOTAL STRUCTURAL SHEETS		ELECTRICAL			E1.0	ELECTRICAL SITE PLAN		E2.0	ELECTRICAL PLANS, NOTES, & DETAILS		E3.0	ELECTRICAL SPECIFICATIONS		3	TOTAL ELECTRICAL SHEETS	
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		<p>SEPARATE PERMITS</p> <p>1. N/A</p>																																																					
		<p>VICINITY MAP</p>																																																					
		<p>SCOPE OF WORK</p> <p>DEMOLITION</p> <ul style="list-style-type: none"> REMOVAL OF DESIGNATED EXISTING PARKING STRIPE PAINT. EXCAVATION AT EXISTING MEDIAN FOR NEW SLAB CONSTRUCTION. REMOVE/RELOCATE EXISTING LANDSCAPE PER NEW CONSTRUCTION. CORE AND EXCAVATE FOR NEW BOLLARDS AT EXISTING PARKING SPACES. TRENCH/BORE FOR ELECTRICAL AND TELCOM. TIE-IN <p>CONSTRUCTION</p> <ul style="list-style-type: none"> RUN CONDUIT & CABLE FOR ELECTRICAL AND TELCOM. TIE-IN FORM & POUR NEW STRUCTURAL CONCRETE PAD INSTALL NEW SITE SECURITY LIGHT POST FIXTURE INSTALL NEW ELECTRICAL PEDESTAL / METERSOCKET INSTALL NEW BANK ATM KIOSK PAINT NEW PARKING STRIPING AND SYMBOL(S) INSTALL NEW BOLLARDS AS APPLICABLE 																																																					
		<p>PROJECT DIRECTORY</p> <p>OWNER U.S. BANK 1 S. PINCKNEY ST. MADISON, WI 53703-2802 CONTACT: BYRON L. BUTLER, ASSISTANT VICE PRESIDENT PHONE: 608.252.4083 EMAIL:</p> <p>ARCHITECT KEN MCCrackEN, ARCHITECT 1101 CENTRAL EXPRESSWAY S, SUITE 100 ALLEN, TX 75013 CONTACT: MIKE BRIGGS PHONE: 972.201.9317 EMAIL: mbriggs@prndginc.com</p> <p>ELECTRICAL THORSON BAKER AND ASSOCIATES 525 METRO PLACE NORTH, SUITE 175 COLUMBUS, OH 43017 CONTACT: RYAN WAGNER PHONE: 234.400.0177 EMAIL: RWAGNER@THORSONBAKER.COM</p> <p>STRUCTURAL THORSON BAKER AND ASSOCIATES 525 METRO PLACE NORTH, SUITE 175 COLUMBUS, OH 43017 CONTACT: RYAN WAGNER PHONE: 234.400.0177 EMAIL: RWAGNER@THORSONBAKER.COM</p>																																																					

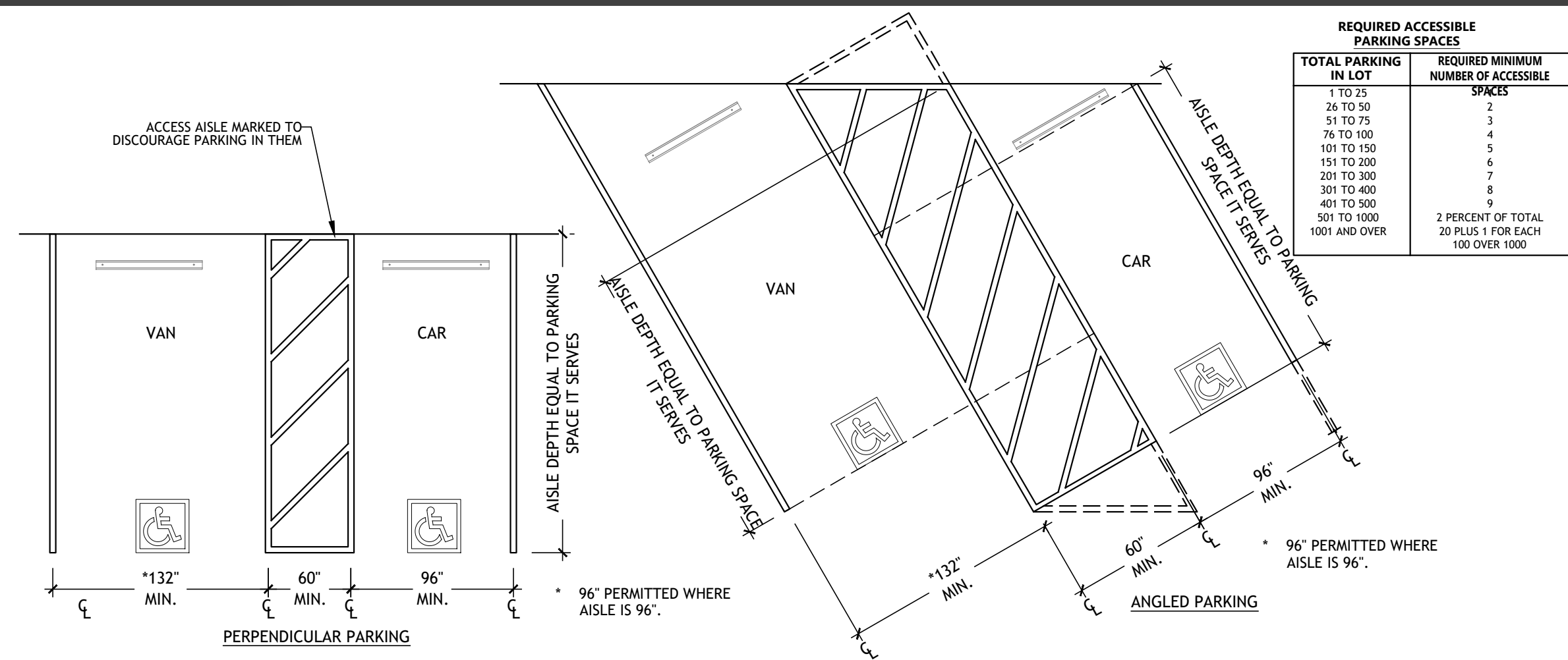
REV	DATE	DESCRIPTION
△	06.22.21	CFI - PERMIT SUBMITAL
△	08.25.21	CONSTRUCTION SET

DRAWN BY: TLH
 CHECKED BY: MB

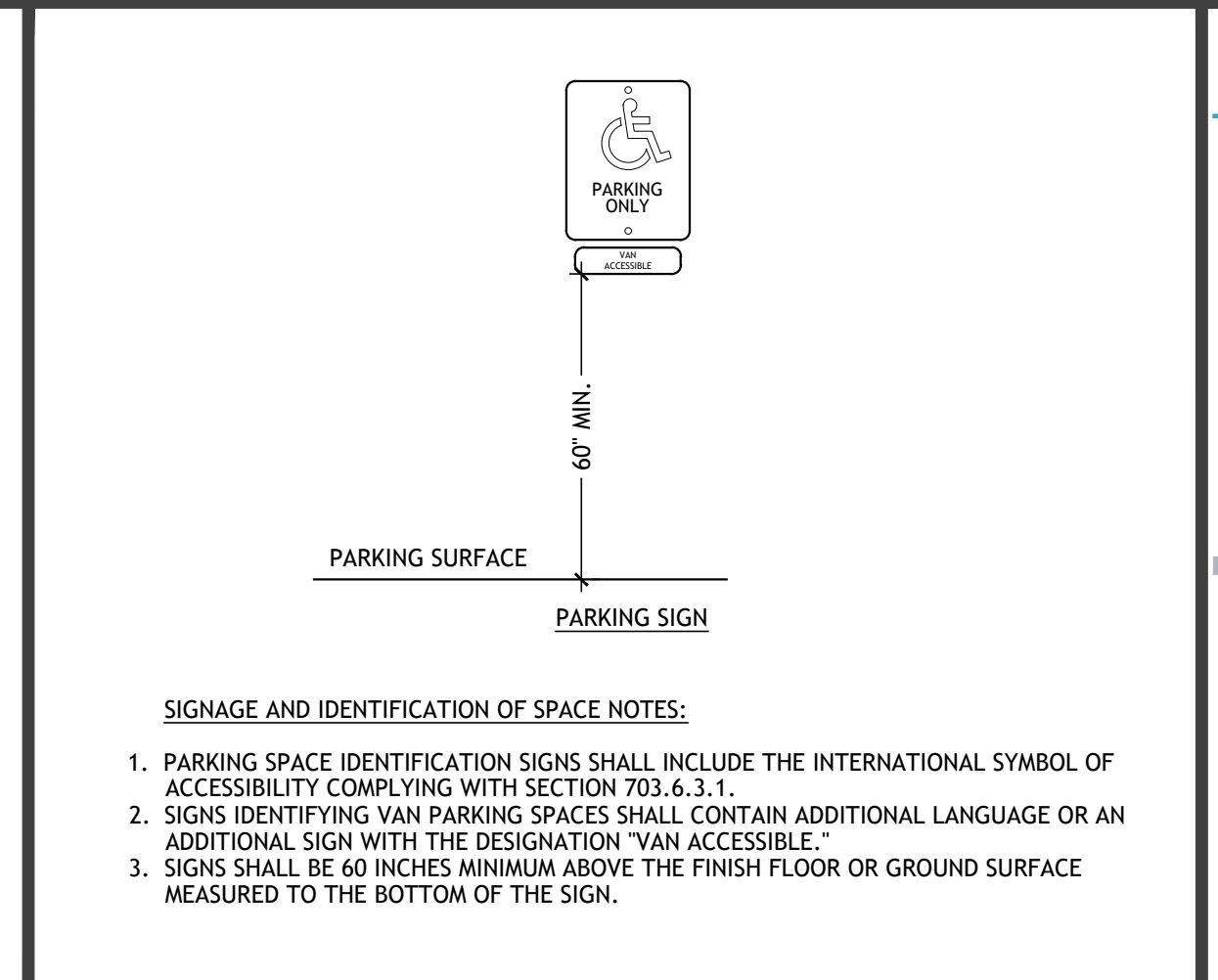
ARCH. PROJECT NO.: ICN21008.0

SHEET NAME: COVER SHEET

SHEET NUMBER: A00.00



- ACCESSIBLE PARKING SPACE NOTES:**
- CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM. SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE. VAN PARKING SPACES SHALL BE PERMITTED TO BE 96 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES WIDE MINIMUM.
 - ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE.
 - ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES WIDE MINIMUM. ACCESS AISLES SHALL EXTEND THE FULL REQUIRED LENGTH OF THE PARKING SPACES THEY SERVE.
 - ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
 - ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
 - PARKING SPACES, ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98 INCHES MINIMUM.
 - PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.



- SIGNAGE AND IDENTIFICATION OF SPACE NOTES:**
- PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 703.6.3.1.
 - SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN WITH THE DESIGNATION "VAN ACCESSIBLE."
 - SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

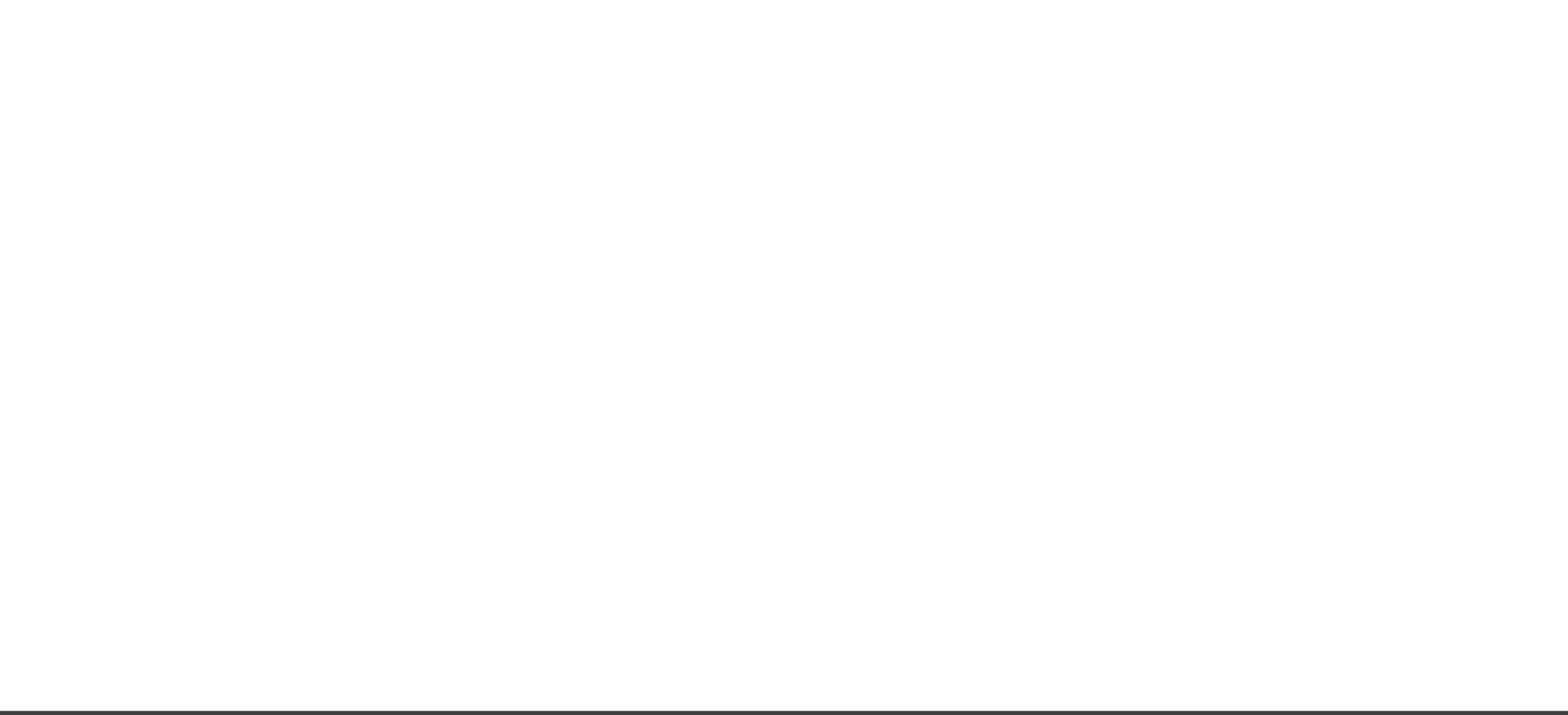
ACCESSIBLE PARKING SPACES	N.T.S.	12
	502	07.08.20

ACCESSIBLE PARKING SIGNS	N.T.S.	4
	502.7	07.08.20

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 Architecture - Program Management - Permitting
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SEAL:

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 KJA/2986



- CHANGES IN LEVEL NOTES:**
- CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.
 - CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
 - CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED.

CHANGES IN LEVEL	N.T.S.	11
	303	07.08.20



- STORAGE:**
- WHERE BINS ARE PROVIDED FOR ENVELOPES, WASTE PAPER, OR OTHER PURPOSES, AT LEAST ONE OF EACH TYPE SHALL BE ACCESSIBLE.
 - A CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED.
 - STORAGE ELEMENTS SHALL COMPLY WITH AT LEAST ONE OF THE REQUIRED ACCESSIBLE REACH RANGES.
 - OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS.
- ATM REQUIREMENTS:**
- A CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED.
 - CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS.
 - OPERABLE PARTS SHALL BE WITHIN AN ACCESSIBLE REACH RANGE.
 - AUTOMATIC TELLER MACHINES SHALL PROVIDE THE OPPORTUNITY FOR THE SAME DEGREE OF PRIVACY OF INPUT AND OUTPUT AVAILABLE TO ALL INDIVIDUALS.
 - MACHINES SHALL BE SPEECH ENABLED. OPERATING INSTRUCTIONS AND ORIENTATION, VISIBLE TRANSACTION PROMPTS, USER INPUT VERIFICATION, ERROR MESSAGES, AND ALL DISPLAYED INFORMATION FOR FULL USE SHALL BE ACCESSIBLE TO AND INDEPENDENTLY USABLE BY INDIVIDUALS WITH VISION IMPAIRMENTS. SPEECH SHALL BE DELIVERED THROUGH A MECHANISM THAT IS READILY AVAILABLE TO ALL USERS, INCLUDING BUT NOT LIMITED TO, AN INDUSTRY STANDARD CONNECTOR OR A TELEPHONE HANDSET. SPEECH SHALL BE RECORDED OR DIGITIZED HUMAN, OR SYNTHESIZED.
 - SPEECH SHALL BE CAPABLE OF BEING REPEATED OR INTERRUPTED. VOLUME CONTROL SHALL BE PROVIDED FOR THE SPEECH FUNCTION.
 - WHERE RECEIPTS ARE PROVIDED, SPEECH OUTPUT DEVICES SHALL PROVIDE AUDIBLE BALANCE INQUIRY INFORMATION, ERROR MESSAGES, AND ALL OTHER INFORMATION ON THE PRINTED RECEIPT NECESSARY TO COMPLETE OR VERIFY THE TRANSACTION.

- AT LEAST ONE TACTILELY DISCERNIBLE INPUT CONTROL SHALL BE PROVIDED FOR EACH FUNCTION. WHERE PROVIDED, KEY SURFACES NOT ON ACTIVE AREAS OF DISPLAY SCREENS, SHALL BE RAISED ABOVE SURROUNDING SURFACES. WHERE MEMBRANE KEYS ARE THE ONLY METHOD OF INPUT, EACH SHALL BE TACTILELY DISCERNIBLE FROM SURROUNDING SURFACES AND ADJACENT KEYS.
- NUMERIC KEYS SHALL BE ARRANGED IN A 12-KEY ASCENDING OR DESCENDING TELEPHONE KEYPAD LAYOUT. THE NUMBER FIVE KEY SHALL BE TACTILELY DISTINCT FROM THE OTHER KEYS.
- FUNCTION KEYS SHALL CONTRAST VISUALLY FROM BACKGROUND SURFACES. CHARACTERS AND SYMBOLS ON KEY SURFACES SHALL CONTRAST VISUALLY FROM KEY SURFACES. VISUAL CONTRAST SHALL BE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
- FUNCTION KEY SURFACES SHALL HAVE TACTILE SYMBOLS AS FOLLOWS: ENTER OR PROCEED KEY: RAISED CIRCLE; CLEAR OR CORRECT KEY: RAISED LEFT ARROW; CANCEL KEY: RAISED LETTER 'X'; ADD VALUE KEY: RAISED PLUS SIGN; DECREASE VALUE KEY: RAISED MINUS SIGN.
- THE DISPLAY SCREEN SHALL BE VISIBLE FROM A POINT LOCATED 40 INCHES ABOVE THE CENTER OF THE CLEAR FLOOR SPACE IN FRONT OF THE MACHINE.
- CHARACTERS DISPLAYED ON THE SCREEN SHALL BE IN A SANS SERIF FONT. CHARACTERS SHALL BE 3/16 INCH HIGH MINIMUM BASED ON THE UPPERCASE LETTER 'T'. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- BRAILLE INSTRUCTIONS FOR INITIATING THE SPEECH MODE SHALL BE PROVIDED.

ATMS	N.T.S.	2
	707	07.08.20

usbank

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CONSULTANT:

REV	DATE	DESCRIPTION
1	06.22.21	CITY PERMIT SUBMITTAL

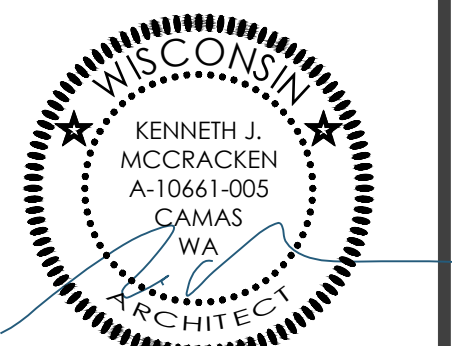
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 SHEET NAME: ANSI A117.1 ACCESSIBILITY DETAILS
 SHEET NUMBER: A00.11



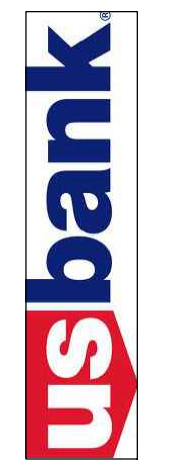
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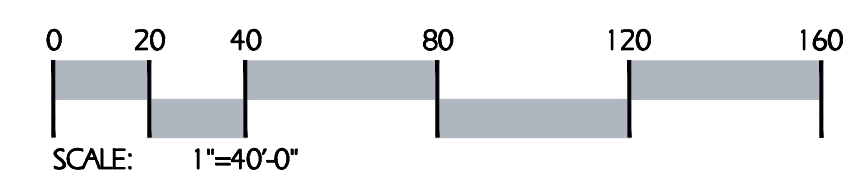
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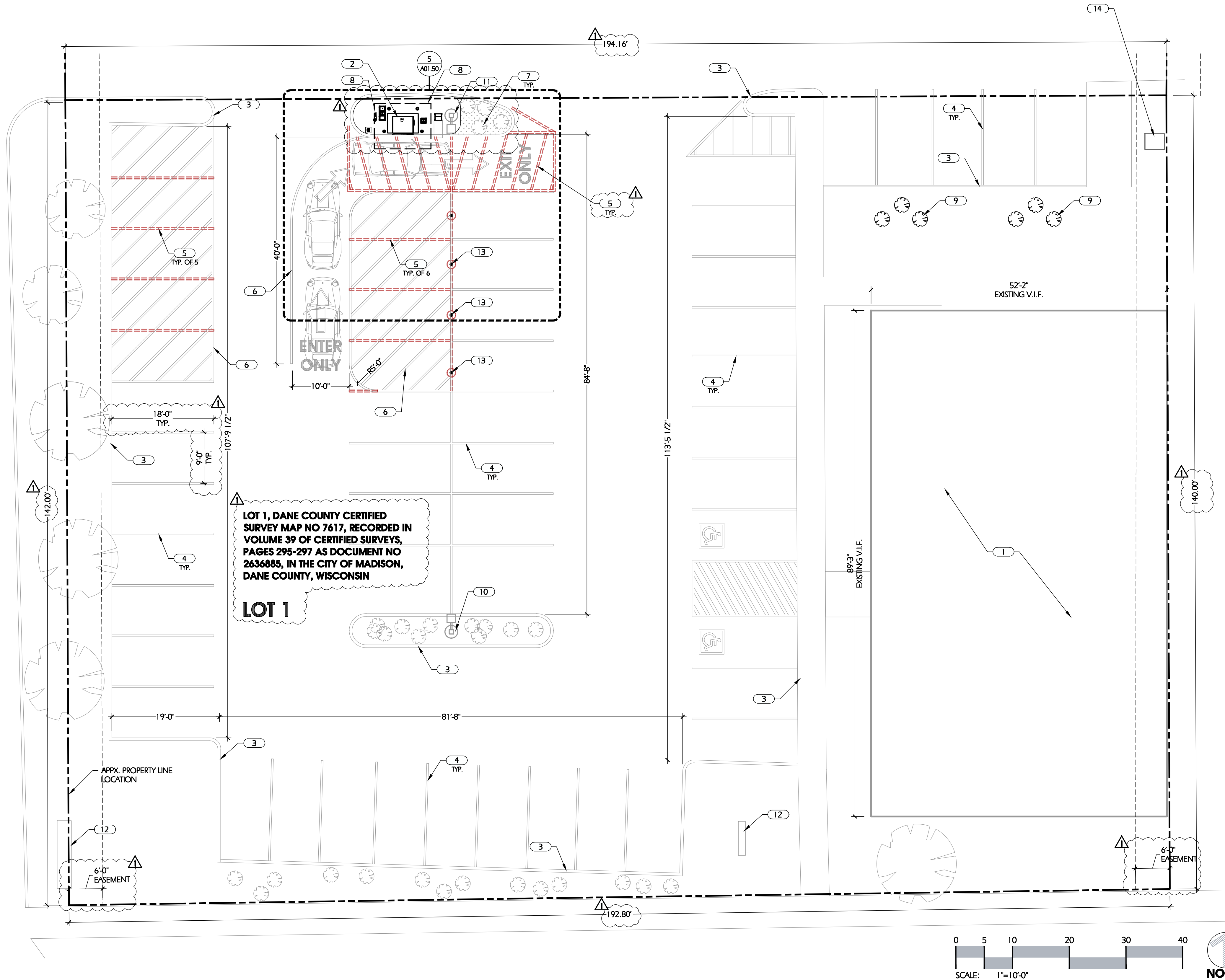
REFERENCE
SITE PLAN

SHEET NUMBER:

A01.00

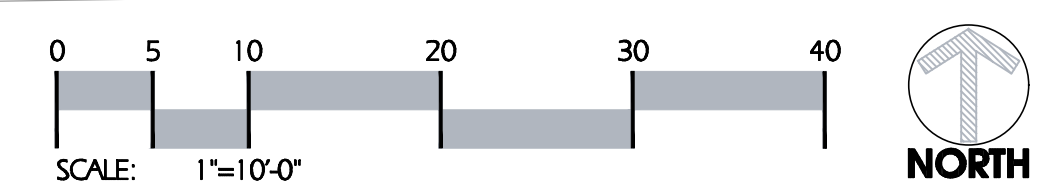


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LOT 1, DANE COUNTY CERTIFIED SURVEY MAP NO 7617, RECORDED IN VOLUME 39 OF CERTIFIED SURVEYS, PAGES 295-297 AS DOCUMENT NO 2636885, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN

LOT 1



- KEYNOTE DESCRIPTION**
- EXISTING SITE STRUCTURE, NOT IN SCOPE
 - NEW / PROPOSED STRUCTURAL SLAB, ATM KIOSK, AND ASSOCIATED EQUIPMENT, REF. DETAIL 5/A01.50
 - EXISTING SITE PARKING CURB/EDGE. ALL EXISTING CURBS TO REMAIN, UNO
 - EXISTING PARKING SPACE STRIPE TO REMAIN
 - REMOVE EXISTING PARKING SPACE STRIPING
 - NEW PARKING SPACE STRIPING TO MATCH EXISTING
 - EXISTING LANDSCAPE ELEMENT TO REMAIN
 - REMOVE/RELOCATE EXISTING LANDSCAPE ELEMENT
 - NEW/RELOCATED LANDSCAPE ELEMENT, COORD. FINAL INSTALL LOCATION WITH OWNER
 - EXISTING SITE LIGHT POST AND FIXTURE TO REMAIN
 - EXISTING SITE LIGHT POST AND FIXTURE LOCATION TO BE EVALUATED FOR CONFLICT WITH PROPOSED WORK. NOTIFY ARCHITECT IF CONFLICT OCCURS IMMEDIATELY FOR DESIGN MODIFICATION AS REQ.
 - EXISTING SITE SIGNAGE TO REMAIN
 - NEW BOLLARD AT EXISTING PARKING SPACE, REF. 5/A01.50
 - EXISTING PAD MOUNT TRANSFORMER. VERIFY ALL REQUIREMENTS AND ROUTING WITH POWER COMPANY PRIOR TO ROUGH-IN OF ANY CONDUIT. E.C. TO COORDINATE WITH POWER COMPANY IF ADDITIONAL TRANSFORMER IS REQUIRED. REF. E1.0

KEYNOTES

4706 COTTAGE GROVE RD.

SITE AREA: 27,474 SQ FT
 PAVED AREA: 15,845 SQ FT
 LANDSCAPE AREA: 2,689 SQ FT
 BUILDING AREA: 8,940 SQ FT
 BUILDING USE: OFFICE

PARKING ANALYSIS

EXISTING PARKING SPACES:	53 (2 HANDICAP)
REMOVED SPACES:	9
TOTAL PARKING:	44

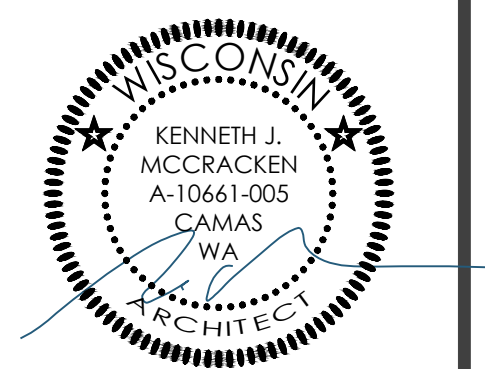
ALL PARKING FACILITY DESIGN SHALL CONFORM TO MGO STANDARDS, AS SET IN SECTION 10.06(6) OF THE CITY ZONING CODE

LAND USE & PARKING SUMMARY

KEY	DESCRIPTION
	AREA OF WORK
	PROPERTY LINE LOCATION
	EXISTING LANDSCAPE
	NEW / RELOCATED LANDSCAPE
	EXISTING SITE LIGHT POLE AND FIXTURE

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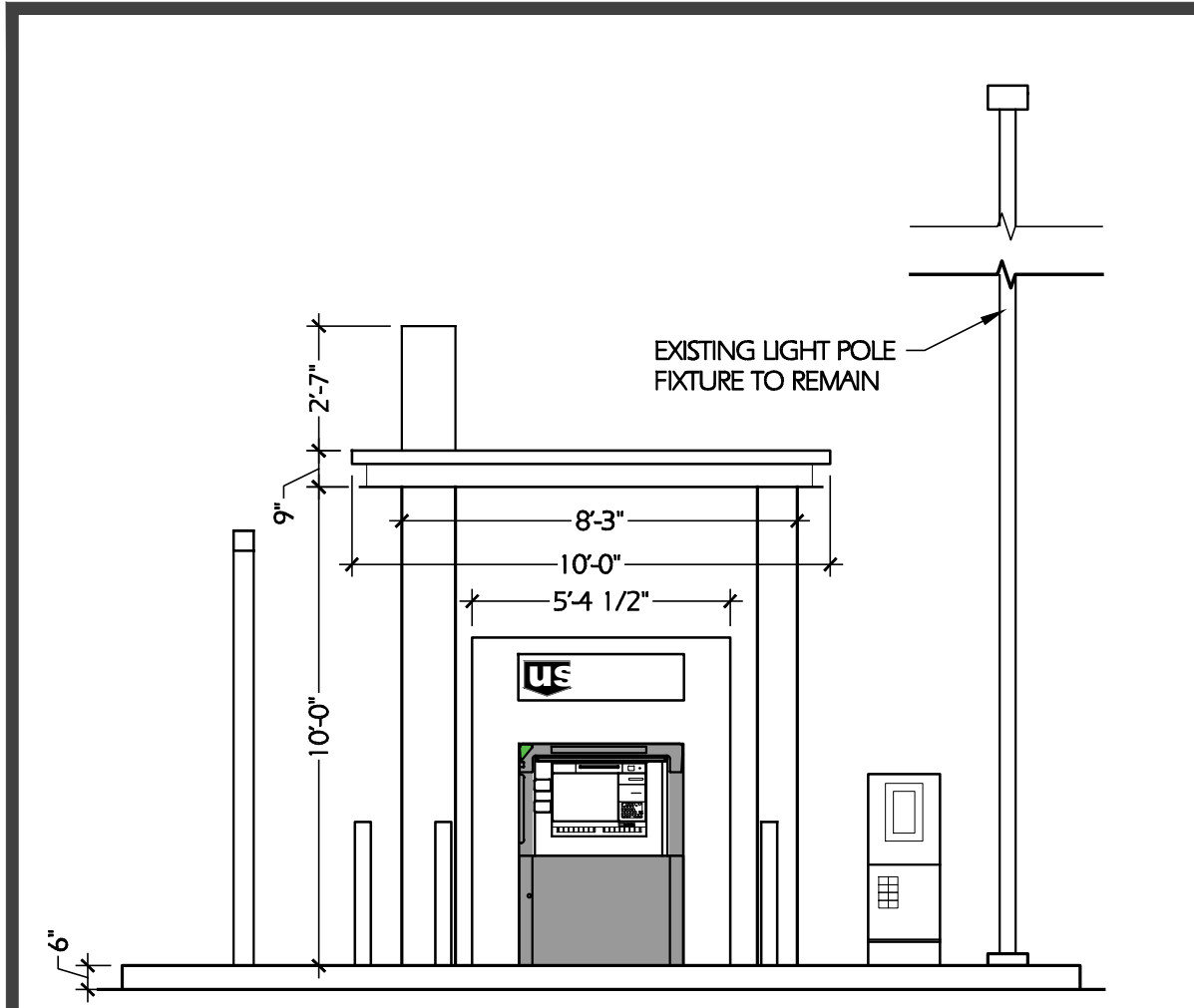
REV	DATE	DESCRIPTION
1	06.22.21	CITY PERMIT SUBMITTAL
2	08.25.21	CONSTRUCTION SET

KEY	DESCRIPTION
	AREA OF WORK
	PROPERTY LINE LOCATION
	EXISTING LANDSCAPE
	NEW / RELOCATED LANDSCAPE
	EXISTING SITE LIGHT POLE AND FIXTURE

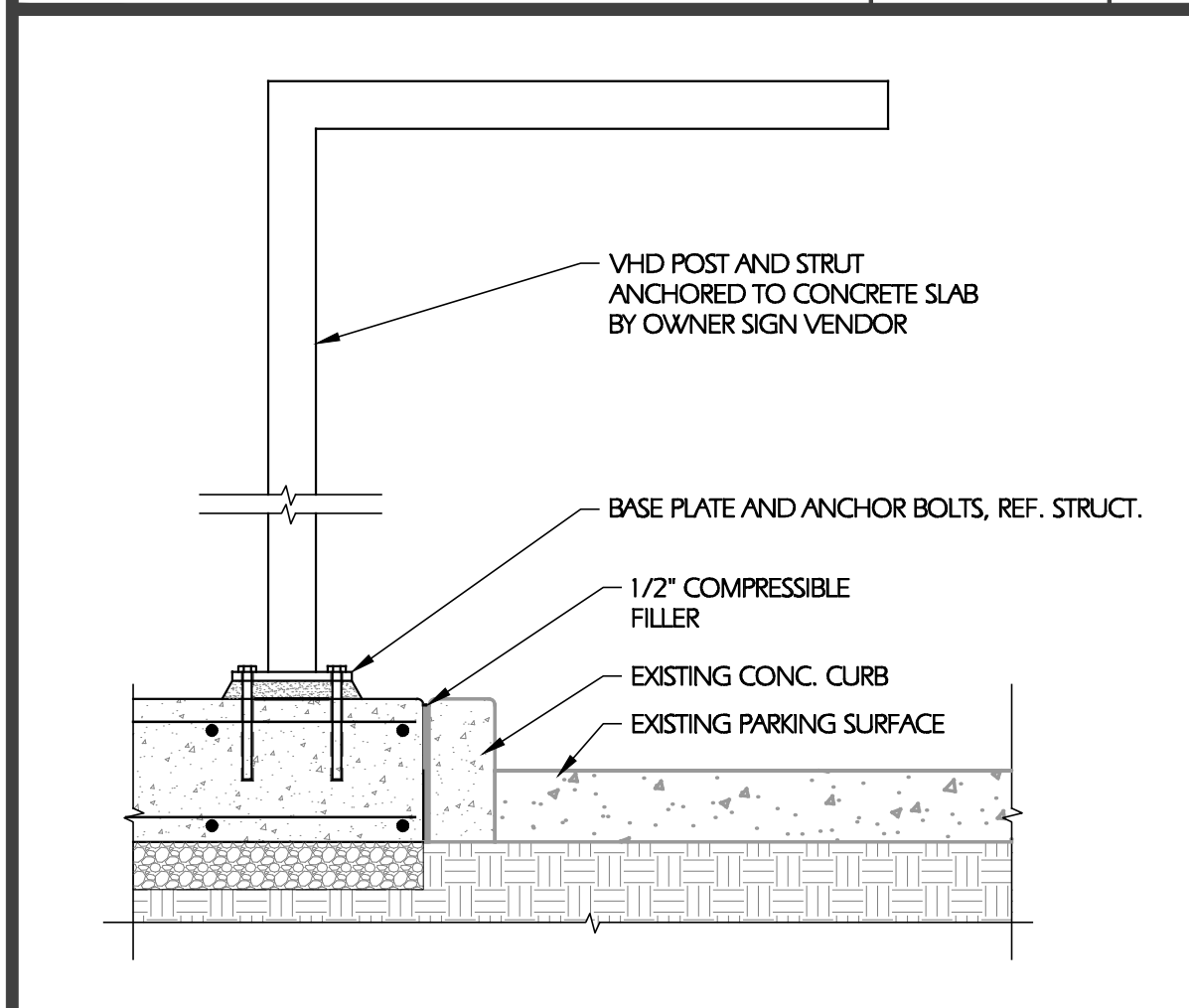
DRAWN BY: TLH
 CHECKED BY: MB
 ARCH. PROJECT NO.: ICN21008.0
 SHEET NAME:

ENLARGED SITE PLAN

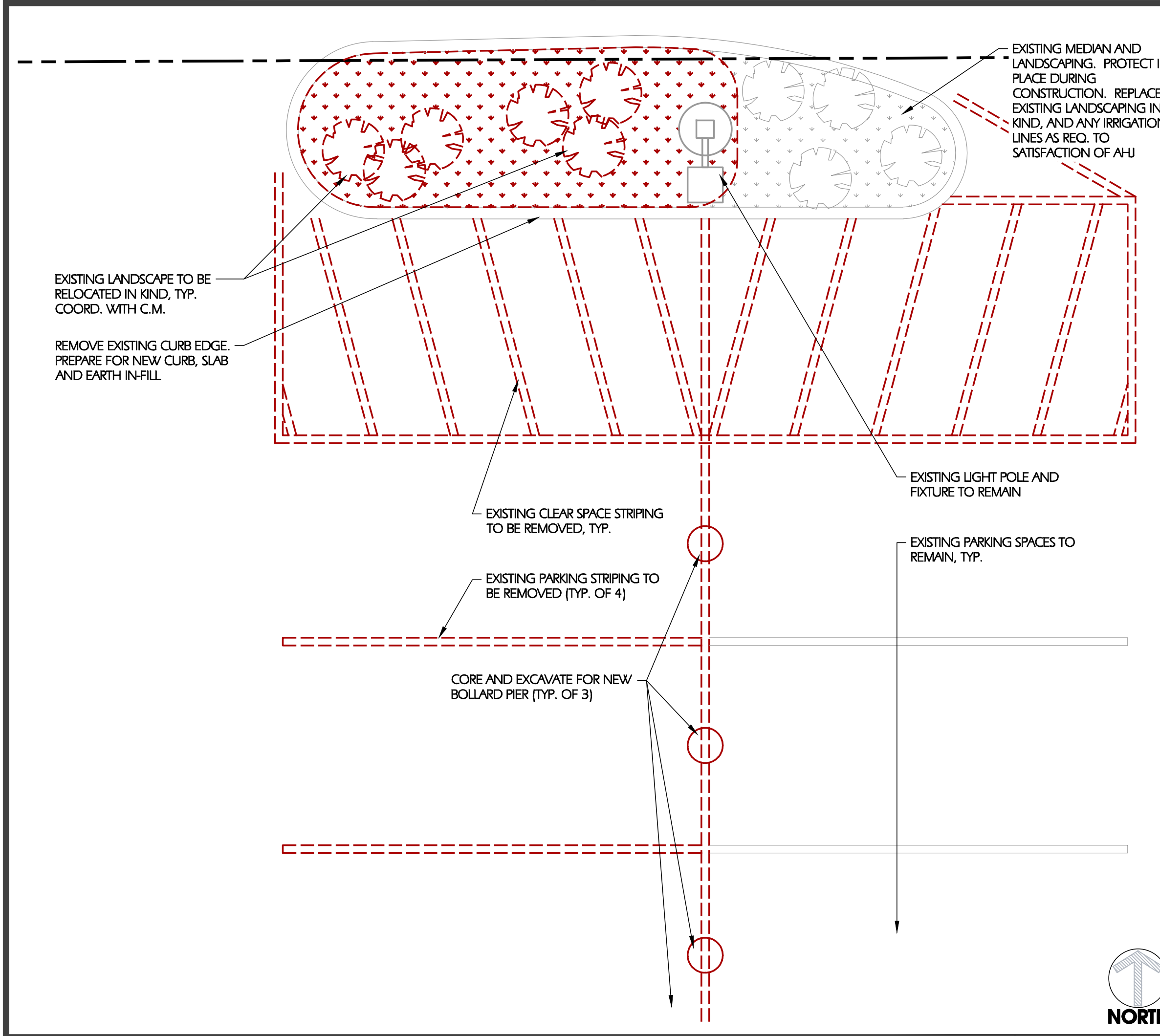
SHEET NUMBER: **A01.10**



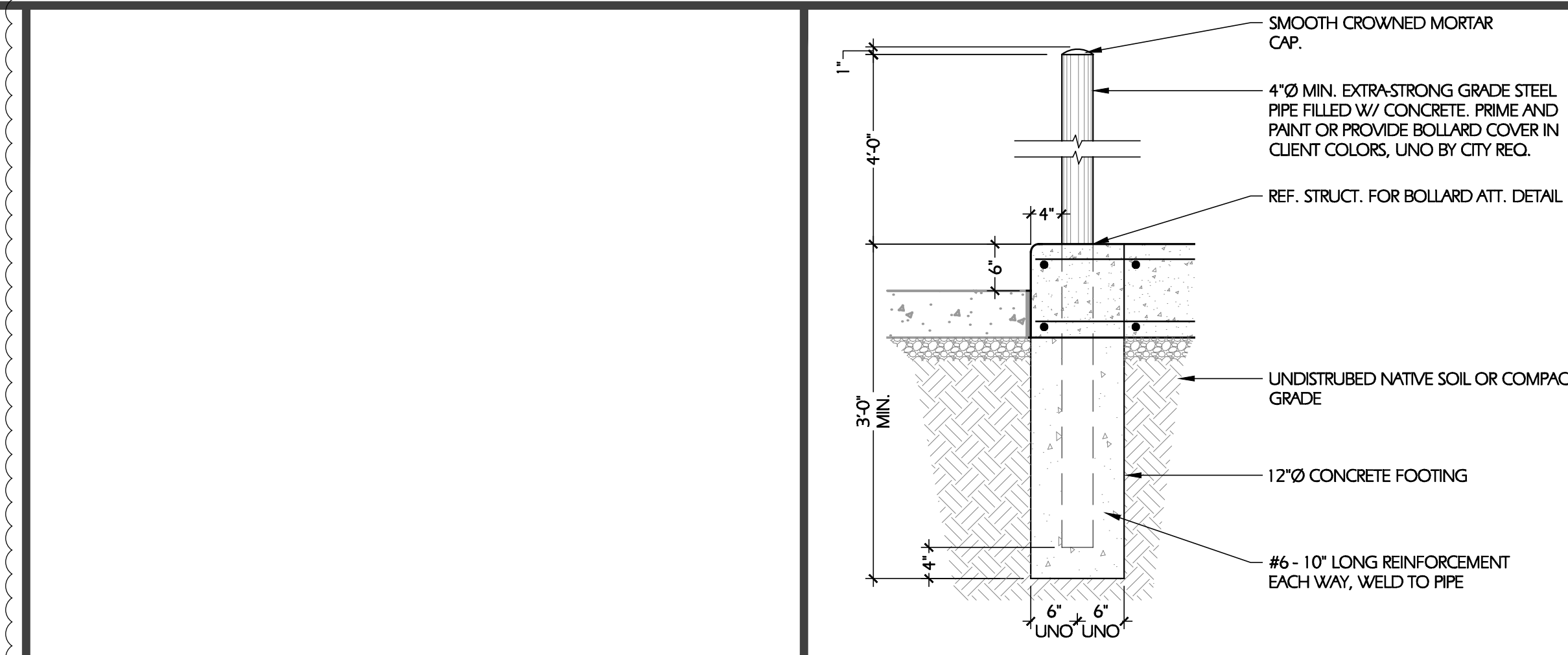
KIOSK FRONT ELEVATION 1/4" = 1'-0" 20



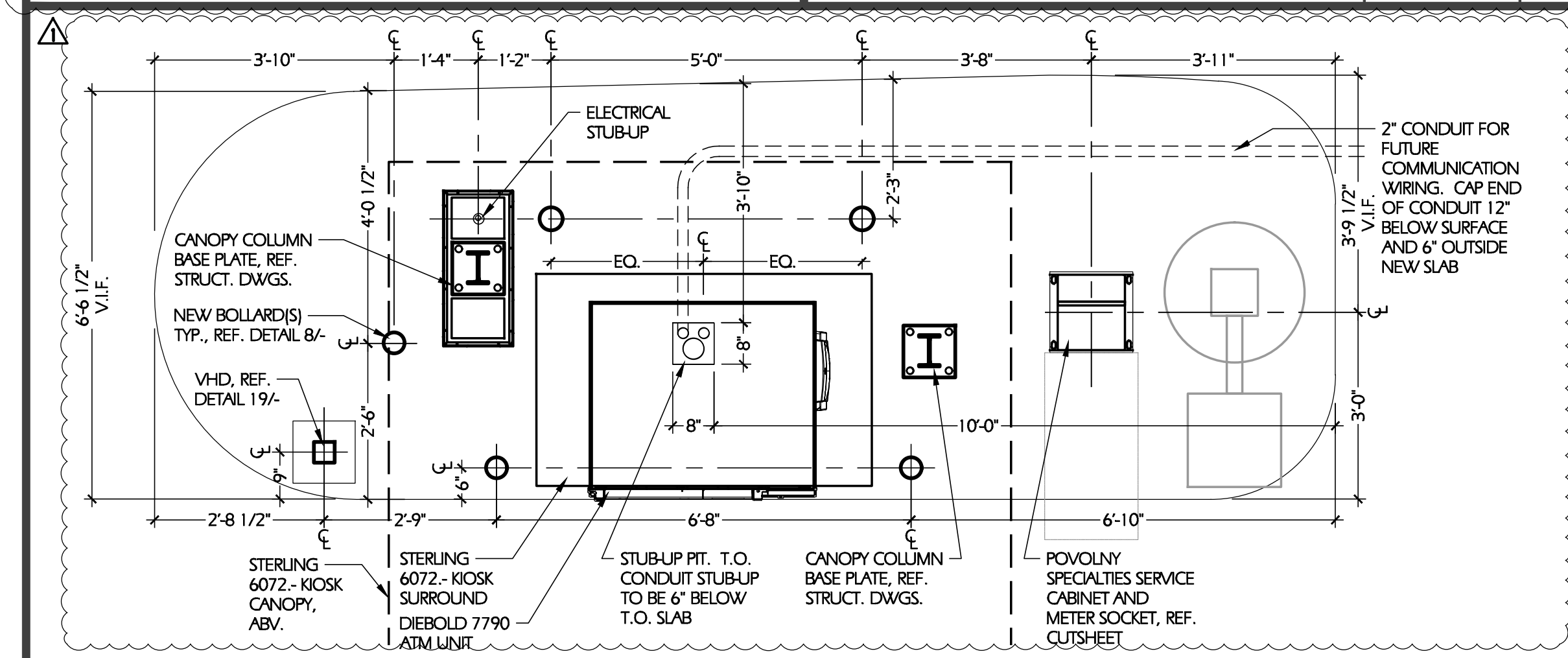
VHD DETAIL 3/4" = 1'-0" 19



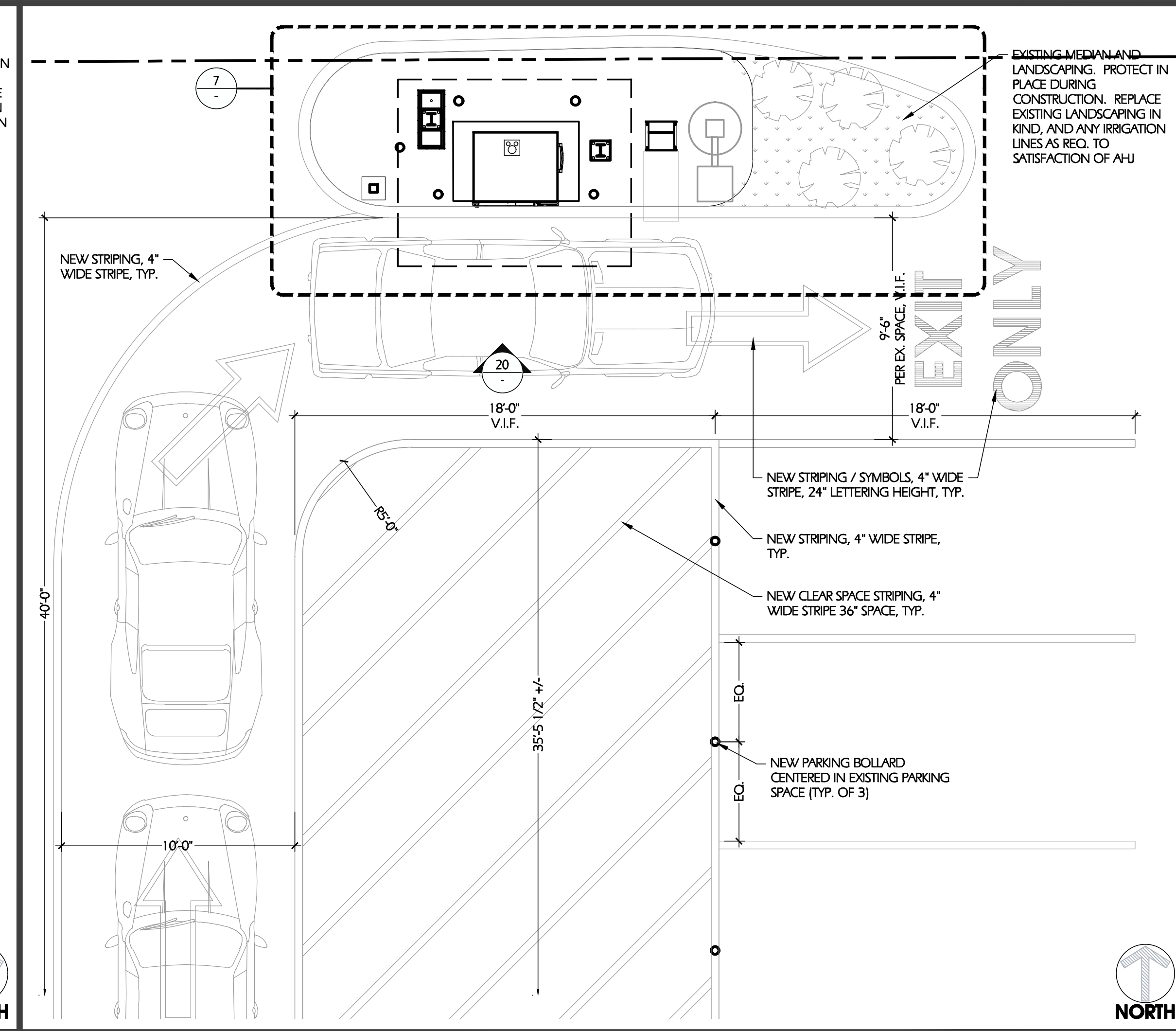
ENLARGED DEMOLITION SITE PLAN 1/4" = 1'-0" 13



BOLLARD DETAIL 3/4" = 1'-0" 8



ATM PLAN 1/2" = 1'-0" 7



ENLARGED SITE PLAN 1/4" = 1'-0" 5

- THESE GENERAL NOTES SHALL APPLY TO ALL DRAWINGS AND GOVERN UNLESS OTHERWISE NOTED OR SPECIFIED.
- THE WORK INDICATED IN THESE DRAWINGS SHALL CONFORM TO ALL CODES AND STANDARDS THAT HAVE JURISDICTION OVER THIS PROJECT.
- THE CONTRACTOR SHALL SECURE AND MAINTAIN ALL JOB RELATED PERMITS AND LICENSES AND PAY ALL RELATED FEES.
- ALL REQUIREMENTS AND REGULATIONS PERTAINING TO HANDICAPPED ACCESSIBILITY AND OSHA MUST BE INCORPORATED INTO THE WORK EVEN THOUGH THEY MAY NOT BE LISTED INDIVIDUALLY OR SEPARATELY IN THE DRAWINGS.
- THE APPROVAL OF PLANS DOES NOT PERMIT THE VIOLATION OF ANY SECTION OF THE BUILDING CODE OR CITY ORDINANCES, STATE OR FEDERAL LAW.
- GENERAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN SUBSTANTIAL COMPLETION.
- THE GENERAL CONTRACTOR WARRANTS TO THE OWNER AND TO THE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT ARE NEW UNLESS OTHERWISE SPECIFIED.
- MATERIAL AND EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH RECOMMENDED MANUFACTURERS PRINTED INSTRUCTIONS AND SHALL COMPLY WITH LOCAL BUILDING CODE.
- THE GENERAL CONTRACTOR SHALL PERSONALLY SUPERVISE AND DIRECT THE WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION AND/OR INSTALLATION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK.
- UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, TRANSPORTATION, PERMITS AND OTHER SERVICES AND FACILITIES NECESSARY FOR PROPER AND TIMELY EXECUTION OF THE WORK.
- ABSOLUTELY NO SUBSTITUTIONS WILL BE ALLOWED, UNLESS APPROVED BY THE ARCHITECT IN WRITING.
- NO INFORMATION OR DETAILS IN THE DRAWINGS OF THIS PROJECT MAY BE USED WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
- ALL CONSULTANT'S DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS CHECK WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING OR INSTALLATION OF ANY MECHANICAL, PLUMBING, AND ELECTRICAL WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEERS DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR IMMEDIATE CLARIFICATION.
- THE CONTRACTOR SHALL ESTABLISH BENCHMARKS AND VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO SUBMISSION OF BIDS. CONTRACTOR IS TO COMPARE ARCHITECTURAL DRAWINGS WITH MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. EXISTING CONDITIONS DISCOVERED TO BE IN CONFLICT WITH AND REQUIRING REVISION TO IMPROVED DESIGN DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT AND OWNER CONSTRUCTION PROJECT MANAGER. NO INFORMATION OR DETAILS IN THE DRAWINGS OF THIS PROJECT MAY BE USED WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
- DIMENSIONS SHOWN ARE TO FINISH FACE, COLUMN GRID AND FACE OF CONCRETE, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL DETAILS SHALL BE CONSIDERED TYPICAL AT SIMILAR CONDITIONS AND SHALL BE USED WHERE APPLICABLE. THE CONTRACTOR SHALL REFER TO GENERAL NOTES AS DESCRIBED ON EACH DRAWING SHEET AND INCORPORATE AS A PART OF THE WORK.
- SHOP DRAWINGS ARE MEANT TO COMPLIMENT AND CLARIFY THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REVIEW SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT. HOWEVER, THE ARCHITECT'S REVIEW AND APPROVAL DOES NOT RELIEVE CONTRACTOR OF HIS RESPONSIBILITY TO VERIFY CONFORMANCE WITH CONSTRUCTION DOCUMENTS. WHEN DISCREPANCIES ARE FOUND BETWEEN SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS, NOTIFY THE ARCHITECT AND HAVE THE SHOP REVISE DRAWINGS PRIOR TO SUBMITTAL. SHOP DRAWING LITERATURE SHALL BE SUBMITTED FOR ALL STEEL FABRICATIONS, MILLWORK, DOORS AND HARDWARE, PAINT, CEILING TILES, PLUMBING FIXTURES AND FITTINGS, HVAC EQUIPMENT AND CONTROLS, AND ELECTRICAL FIXTURES AND GEAR.
- ALL TRADES SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH CAUSED BY THEIR WORK. AT THE COMPLETION OF THE WORK REMOVE ALL RUBBISH, TOOLS, SCAFFOLDING, SURPLUS MATERIALS AND LEAVE THE JOB IN A BROOM CLEAN CONDITION.
- PROVIDE A CONSTRUCTION FENCE OR CANOPY AT PUBLIC RIGHT-OF-WAY FOR PEDESTRIAN PROTECTION IF ANY WORK IS TO BE PERFORMED ON ANY BUILDING OR STRUCTURE ADJACENT TO PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, TOOLS, UTILITIES, AND OTHER SERVICES NECESSARY FOR PROPER EXECUTION OF THE CONSTRUCTION DOCUMENTS IN A TIMELY MANNER.
- THE GENERAL CONTRACTOR SHALL INCLUDE IN THE BID ALL TRENCHING, PATCHING AND REPAIRING REQUIRED FOR THE JOB, INCLUDING (BUT NOT LIMITED TO) STRUCTURAL ITEMS, ELECTRICAL AND PLUMBING LINES, FIXTURES AND SITE WORK.
- SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF THE PERSONS AND PROPERTY AND FOR ALL INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- CONSTRUCTION WORK SHALL NOT BLOCK MEANS OF EGRESS.
- CUTTING AND PATCHING: WHERE EXISTING CONDITIONS ARE CUT OR DISTURBED TO PERMIT INSTALLATION OF NEW WORK, MATCH AND PATCH EXISTING DISTURBED CONSTRUCTION OR FINISH.
- ELECTRICAL, WATER & GAS SERVICES SHALL BE METERED DIRECTLY BY THE SERVING UTILITY COMPANY.
- DIMENSIONS ARE NOT TO BE SCALED FROM DRAWINGS EXCEPT WHERE SPECIFICALLY APPROVED IN THESE DOCUMENTS.
- G.C. TO ENSURE MIN. 5'-0" x 5'-0" GROUND AREA ADJACENT TO KIOSK LOCATION, DOES NOT EXCEED 2% SLOPE IN ANY DIRECTION, TO MEET ACCESSIBILITY COMPLIANCE.

GENERAL NOTES 1

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 VANCOUVER, WA 98683
 PROJECT CONTACT: MIKE BRIGGS
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KEN MCCrackEN, ARCHITECT
 SEAL: [Professional Seal]

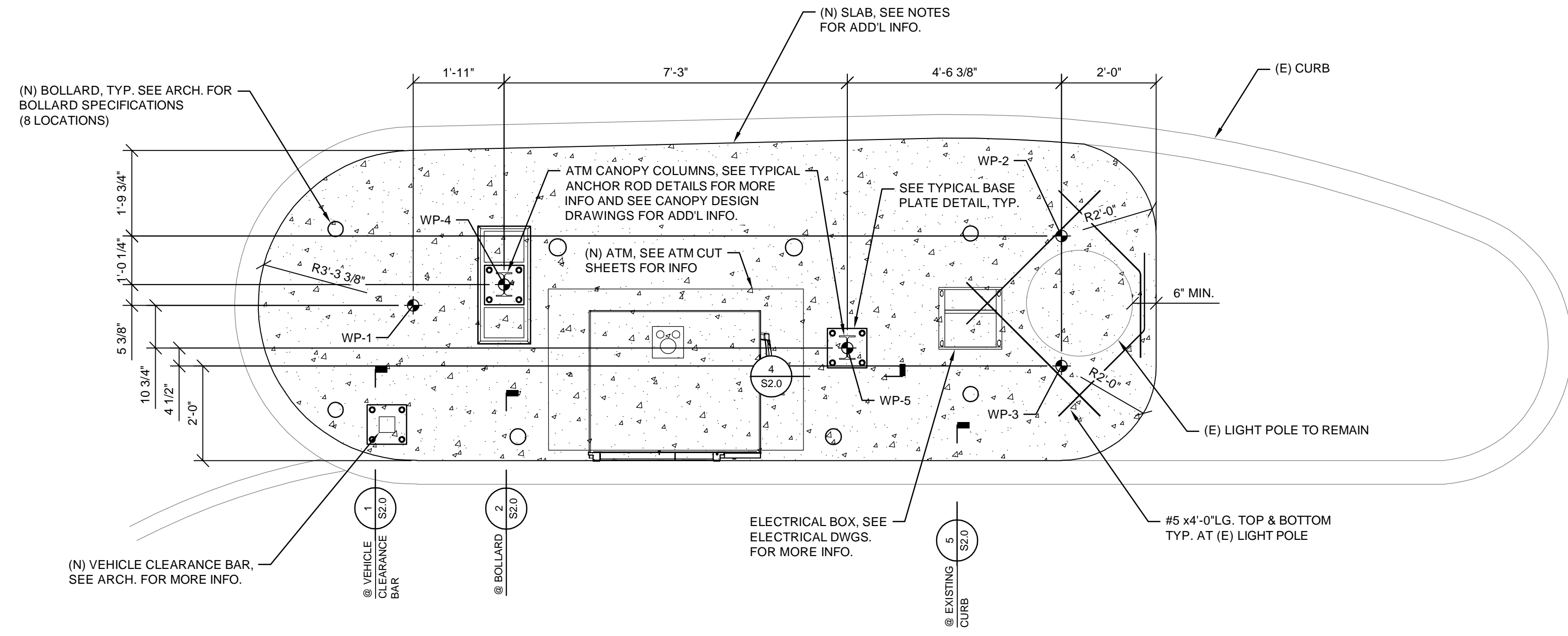
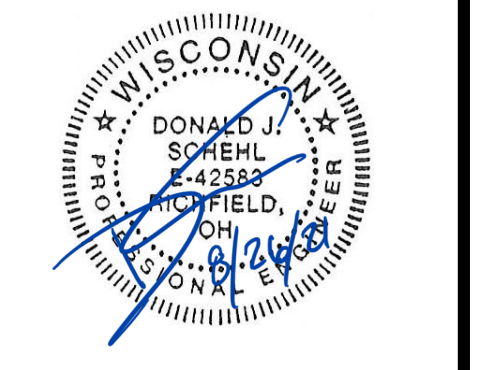
08/25/21

CONSULTANT:

usbank
 US BANK
 STORE NO.: N/A
 ROLLING MEADOW SHOPPING CENTER
 4706 COTTAGE GROVE RD.
 MADISON, WI 53716

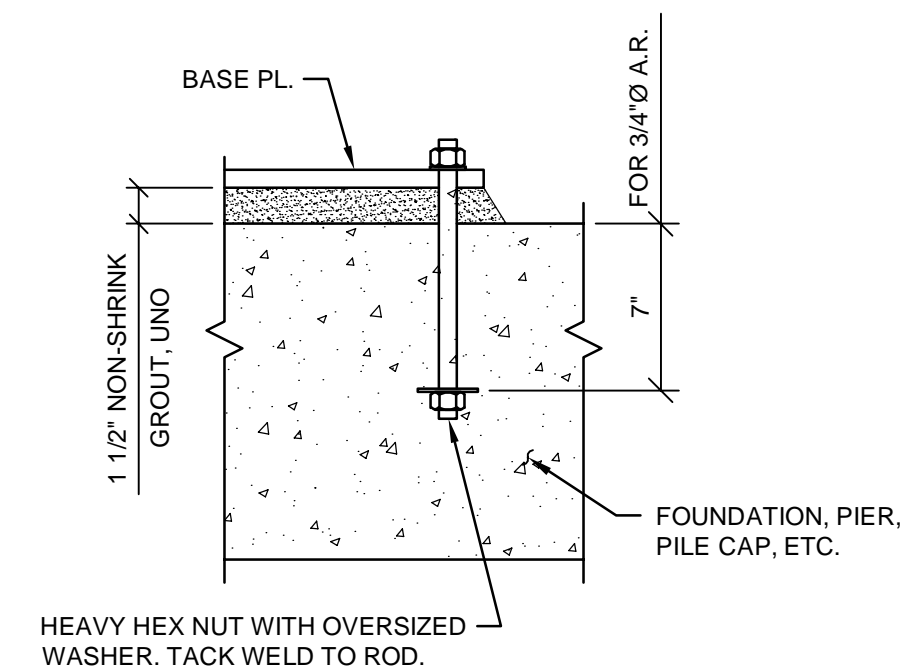
REV	DATE	DESCRIPTION
1	08.22.21	CITY PERMITS SUBMITTAL
2	08.25.21	CONSTRUCTION SET

DRAWN BY: TLH
 CHECKED BY: MB
 ARCH. PROJECT NO.: ICN21008.0
 SHEET NAME: CONSTRUCTION PLAN & SITE DETAILS
 SHEET NUMBER: A01.50



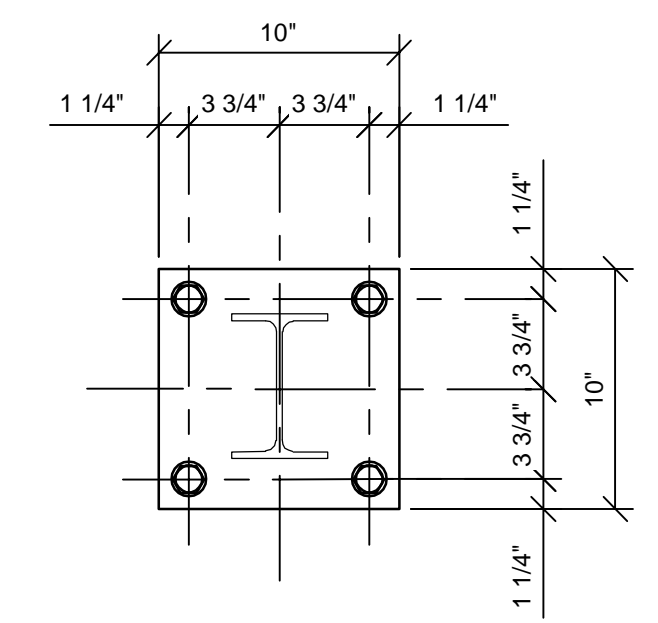
FOUNDATION PLAN
3/8" = 1'-0"

- NOTES:
- FLOOR CONSTRUCTION: 12" CONCRETE SLAB ON GRADE WITH #5 @ 12" O.C. E.W. T&B PROVIDE 4" LAYER OF GRANULAR FILL BELOW SLAB (UNO).
 - TOP OF SLAB ON GRADE ELEVATION = 0'-0".
 - SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND FINISH OF SLAB ON GRADE AND ANY FLOOR DEPRESSIONS, UNDERFLOOR CONDUITS, DRAINS, ETC.
 - SEE SHEET S1.0 FOR GENERAL NOTES.
 - SEE ARCHITECTURAL AND EQUIPMENT DRAWINGS FOR FINAL LOCATIONS AND SIZE OF ANCHORS. NOTIFY EOR OF ANY DISCREPANCIES.

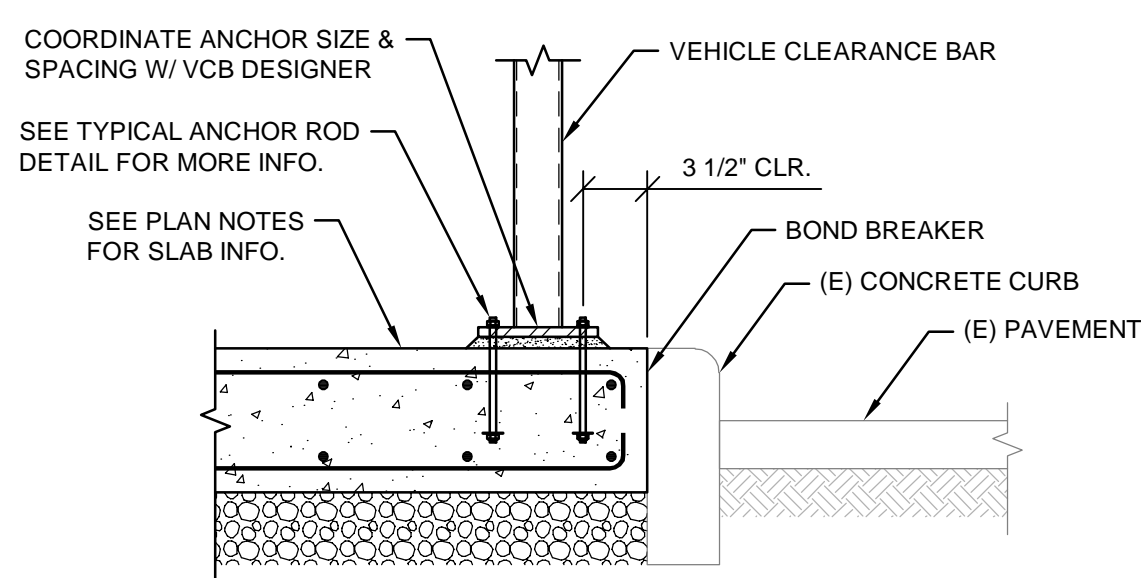


TYPICAL ANCHOR ROD DETAIL
(ASTM F1554 GR. 36)

- CONTRACTOR MAY USE LEVELING NUTS OR LEVELING PLATES AT CONTRACTORS OPTION.
- AN INCREASE IN GROUT THICKNESS FOR LARGE BASE PLATES IS PERMISSIBLE IF APPROVED BY THE ENGINEER. COORDINATION DUE TO INCREASE IN GROUT THICKNESS FOR OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- IN LIEU OF CAST-IN ANCHORS, POST-INSTALLED ANCHORS MAY BE USED WITH THE SAME EMBEDMENT, SEE POST-INSTALLED ANCHOR NOTES.

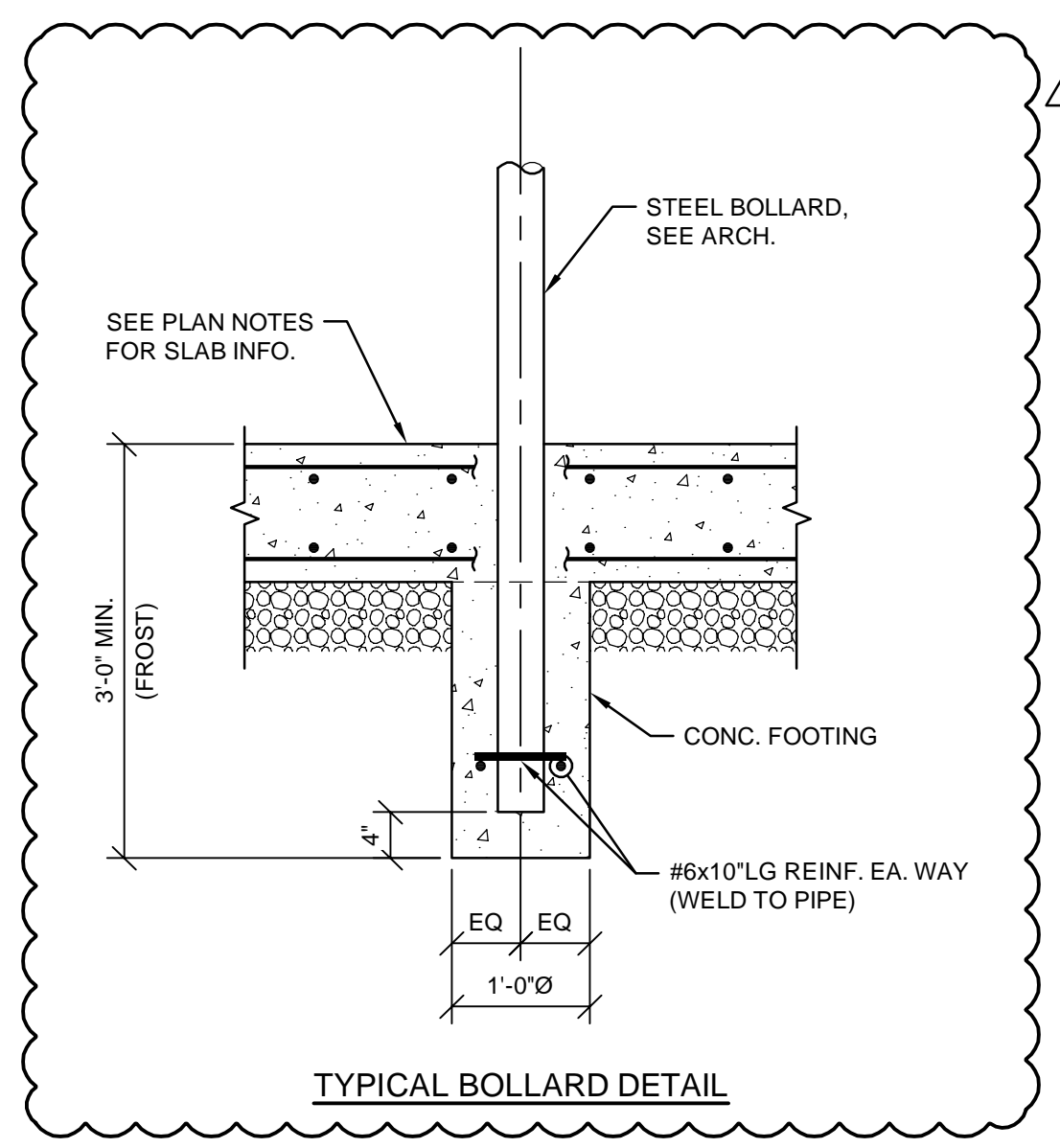


TYPICAL BASE PLATE DETAIL



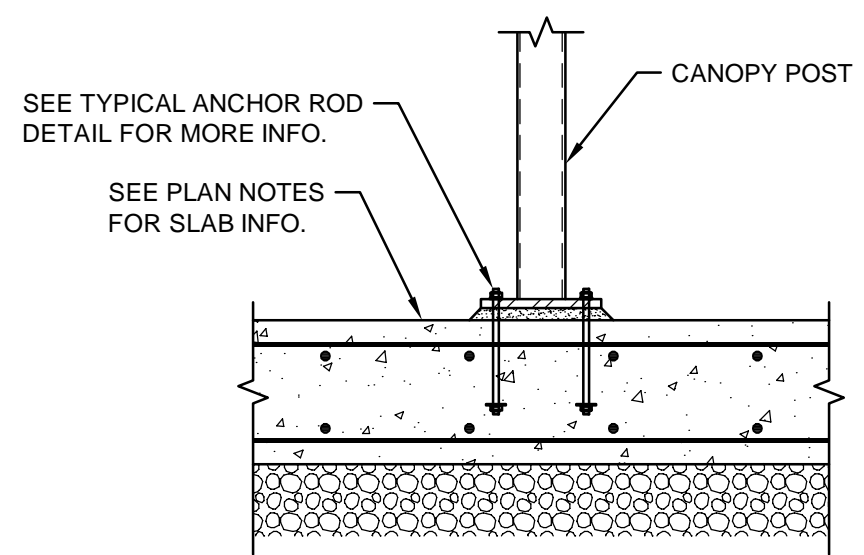
VEHICLE CLEARANCE BAR

SECTION 1
3/4" = 1'-0"



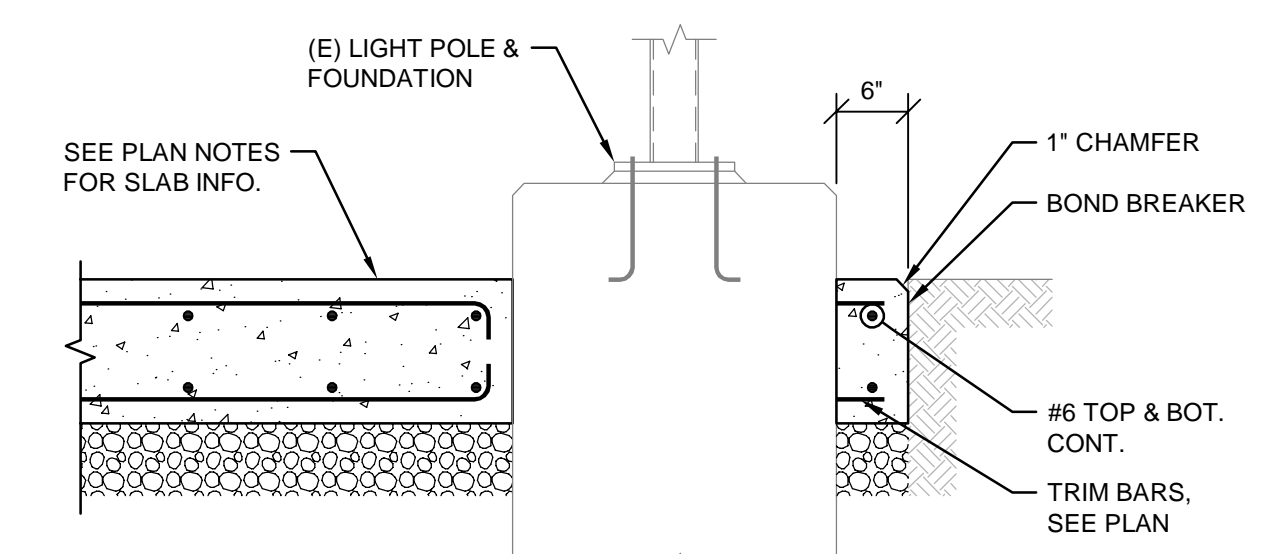
TYPICAL BOLLARD DETAIL

SECTION 2
3/4" = 1'-0"

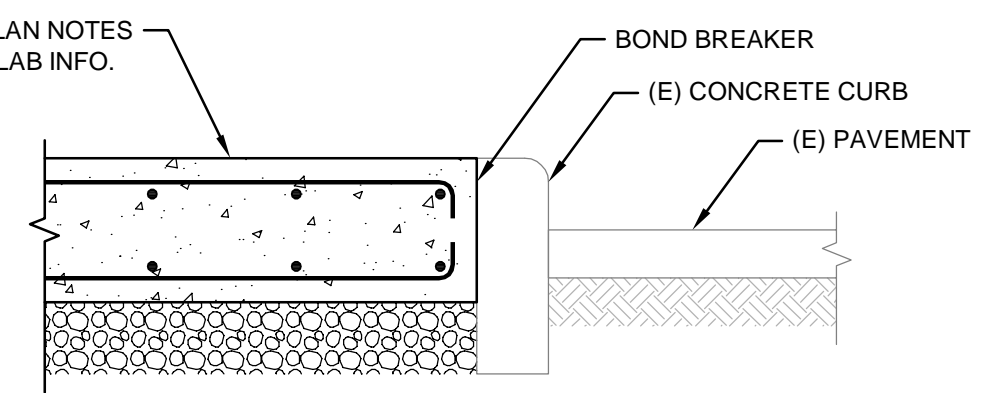


CANOPY POST DETAIL

SECTION 4
3/4" = 1'-0"



SECTION 3
3/4" = 1'-0"



SECTION 5
3/4" = 1'-0"

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US BANK
STORE NO.: N/A
ROLLING MEADOW SHOPPING CENTER
4706 COTTAGE GROVE RD.
MADISON, WI 53716

REV	DATE	DESCRIPTION
06.22.21	CITY - PERMIT SUBMITTAL	
08.28.21	REVISION 1	

DRAWN BY: TBA
CHECKED BY: TBA
ARCH. PROJECT NO.: ICN21008.0
SHEET NAME: PLAN, SECTIONS & DETAILS
SHEET NUMBER: S2.0



ELECTRICAL SITE PLAN
1" = 20' - 0"

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SEAL:



CONSULTANT:

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US BANK
STORE NO.: N/A
ROLLING MEADOW SHOPPING CENTER
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MADISON, WI 53716

REV	DATE	DESCRIPTION
1	06.22.21	CITY - PERMIT SUBMITTAL

DRAWN BY: TBA
CHECKED BY: TBA
ARCH. PROJECT NO.: ICN21008.0
SHEET NAME: ELECTRICAL SITE PLAN
SHEET NUMBER: E1.0

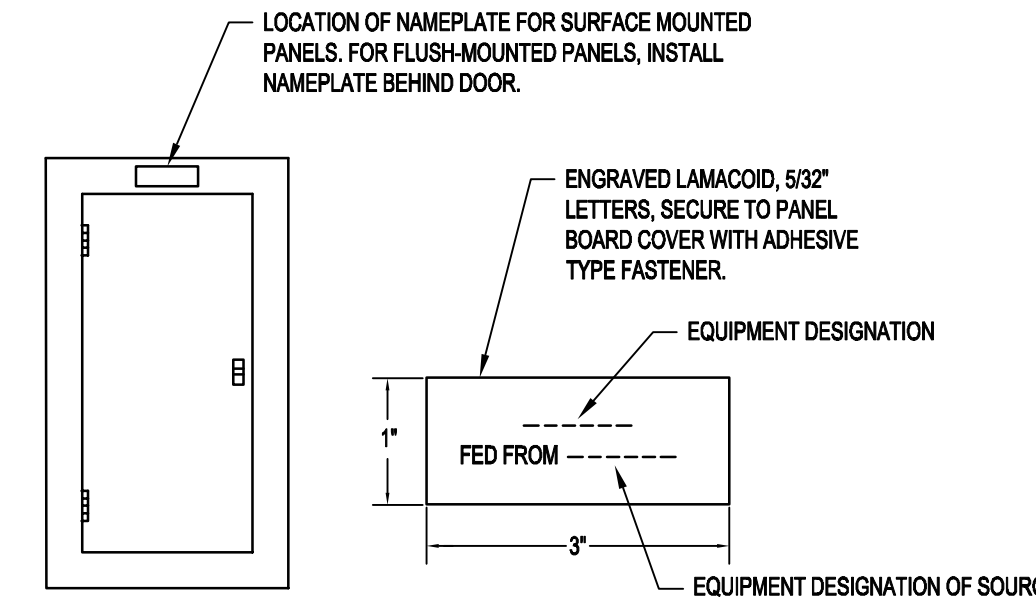
ELECTRICAL ABBREVIATIONS	
A	AMPS
AIC	ASYMMETRICAL INTERRUPTING CURRENT
ARCH.	ARCHITECTURAL
AWG	AMERICAN WIRE GAGE
C	CONDUIT
CONTR.	CONTRACTOR
CU	COPPER
DS	DISCONNECT SWITCH
DWG.	DRAWING
(E) OR EXIST.	EXISTING
E.C.	ELECTRICAL CONTRACTOR
	EXHAUST FAN
ELEC.	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EOR	ENGINEER OF RECORD
EQ.	EQUAL
ETR	EXISTING TO REMAIN
FT.	FOOT/FEET
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTING PROTECTION
GND	GROUND
JB	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTC	NOT IN CONTRACT
NTS	NOT TO SCALE
Ø or PH	PHASE
P	POLE
PB	PULL BOX
PNL	PANEL
PVC	POLYVINYL CHLORIDE
TYP.	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHER-PROOF TYPE DEVICE (NEMA 3R RATED)
WR	WEATHER-RESISTANT TYPE DEVICE (NEMA 3R RATED)
XTMR	TRANSFORMER

GENERAL NOTES

- ALL DEVICES, EQUIPMENT, FIXTURES, & THE LIKE, MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
- BRANCH CIRCUIT CONDUCTOR SIZES (& CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL & THE LOADS DO NOT EXCEED A LIMIT OF 3%.
- REGARDLESS OF THE TEMPERATURE RATING OF THE CONDUCTOR INSULATION, ALL CONDUCTOR AMPACITY RATINGS FOR THIS PROJECT SHALL BE DETERMINED FROM THE 75°C CONDUCTOR TEMPERATURE RATINGS INDICATED IN THE NEC TABLES. WHERE EQUIPMENT OR DEVICES ARE PROVIDED WITH TERMINALS/LUGS RATED FOR 60°C, THE AMPACITY RATING OF THE 75°C CONDUCTOR SHALL BE LIMITED TO ITS ASSOCIATED 60°C RATING AS INDICATED IN THE NEC TABLES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE THE CONDUCTORS AND CONDUIT SIZE AS REQUIRED.
- ALL 120V AND 277V BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARED NEUTRALS WILL NOT BE PERMITTED FOR MULTI-CIRCUIT INSTALLATIONS. WHERE MULTIPLE CIRCUITS ARE RUN IN A COMMON RACEWAY, THE AMPACITY OF THE CONDUCTORS SHALL BE PROPERLY DERATED & CONDUIT SHALL BE SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT. REFERENCE NEC ARTICLE AND TABLE 310.15(B)(3)(a).
- ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC TABLE #250.122. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR ANY REASON (I.E. VOLTAGE DROP, DERATING, ETC.), THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY (ACCORDING TO CIRCULAR MIL AREA) FROM THE SIZE REQUIRED BY NEC TABLE #250.122.
- ALL ELECTRICAL EQUIPMENT AND DEVICES FOR THIS PROJECT MUST BE UL LISTED. DEVICES, EQUIPMENT, SYSTEMS SHALL BE INSTALLED PER N.E.C. REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
- ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
- ELECTRICAL CONTRACTOR SHALL BACKFILL ALL ELECTRICAL TRENCHES USING CLEAN FILL MATERIAL FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER. PLACE BACKFILL MATERIAL IN 8" THICK LAYERS WITH EACH LIFT COMPACTED AT NEAR OPTIMUM MOISTURE CONTENT. COMPACT LIFTS TO ACHIEVE A MINIMUM IN PLACE DENSITY OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EASMENTS, UNDERGROUND UTILITIES, AND DRAINAGE PRIOR TO TRENCHING OR AUGERING FOR POLE BASE. (TYPICAL)

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CONDUIT WITH WIRING RUN CONCEALED IN OR ABOVE CEILING OR WALL, OR RUN EXPOSED IN UNFINISHED AREAS. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM), PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN.
	CONDUIT WITH WIRING RUN UNDERGROUND. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM), PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN.
	JUNCTION BOX - TYPE AND SIZE AS REQUIRED BY NEC
	PULL BOX - TYPE AND SIZE AS REQUIRED BY NEC



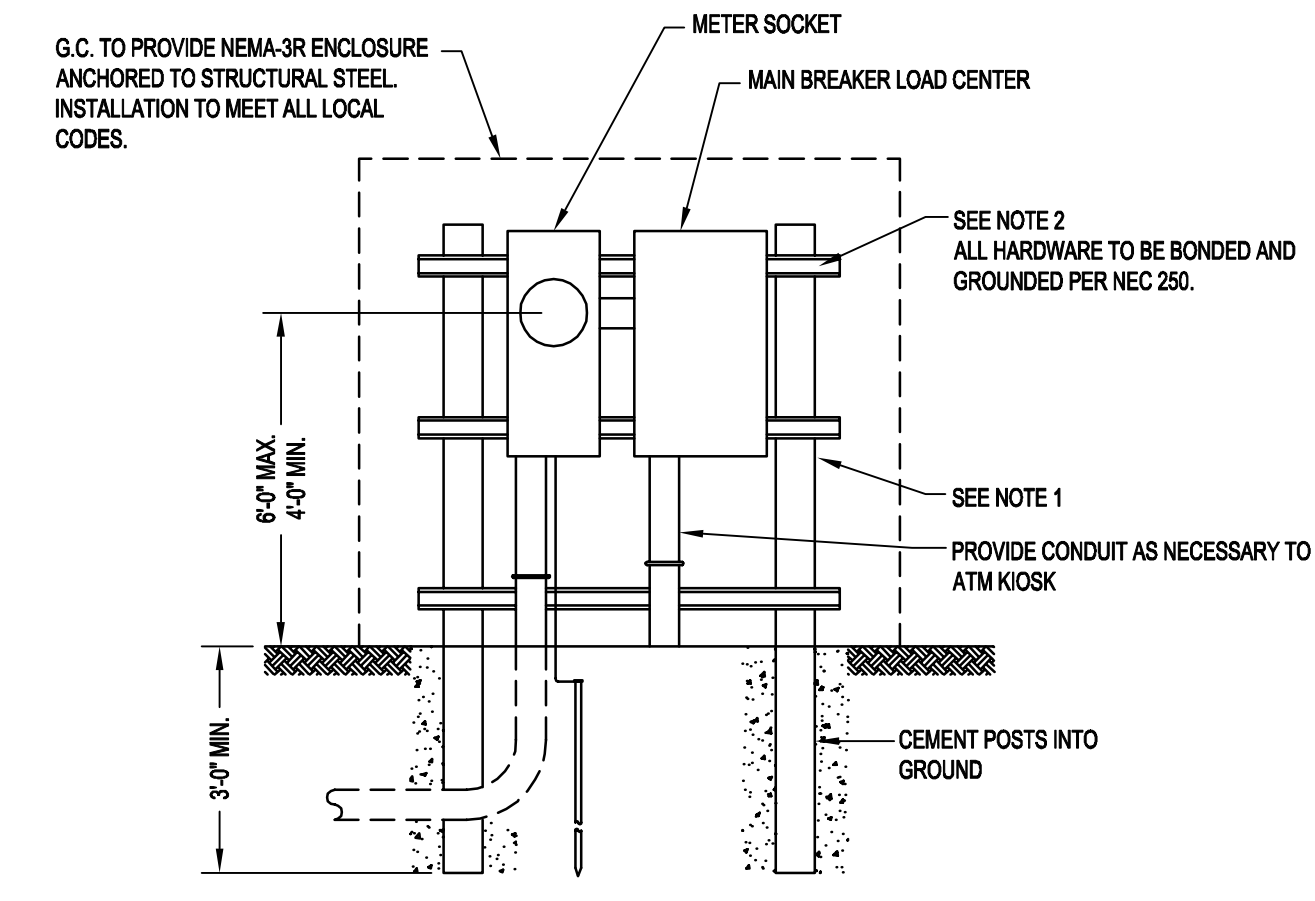
NOTE: NAMEPLATES ARE REQUIRED ON ALL SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, ENCLOSURES AND ELECTRICAL CABINETS, ACCESS DOORS/PANELS FOR CONCEALED ELECTRICAL EQUIPMENT, EMERGENCY SYSTEMS/BOXES, MOTOR CONTROL CENTERS, ENCLOSED SWITCHES/CIRCUIT BREAKERS/CONTROLLERS, POWER-TRANSFER DEVICES, PUSH-BUTTONS, CONTACTORS, LIGHTING CONTROL SYSTEMS, INVERTERS, GENERATORS, UPS, MONITORING EQUIPMENT, STARTERS, DISCONNECT SWITCHES, METER SOCKETS, RELAYS, TRANSFORMERS, AND JUNCTION BOXES GREATER THAN 4 1/16" SQUARE. ALSO PROVIDE NAMEPLATES ON BRANCH SWITCHES/BREAKERS OF SWITCHBOARDS AND DISTRIBUTION PANELS.

STANDARD COLORS:

- NORMAL POWER - WHITE BACKGROUND, BLACK LETTERS
- EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING
- IN ADDITION TO THE FUNCTION NAMEPLATE, PROVIDE NAMEPLATES IDENTIFYING ALL "MAIN SERVICE NAMEPLATE DISCONNECTS" - RED BACKGROUND - WHITE LETTERING

NAMEPLATE DETAIL

N.T.S.



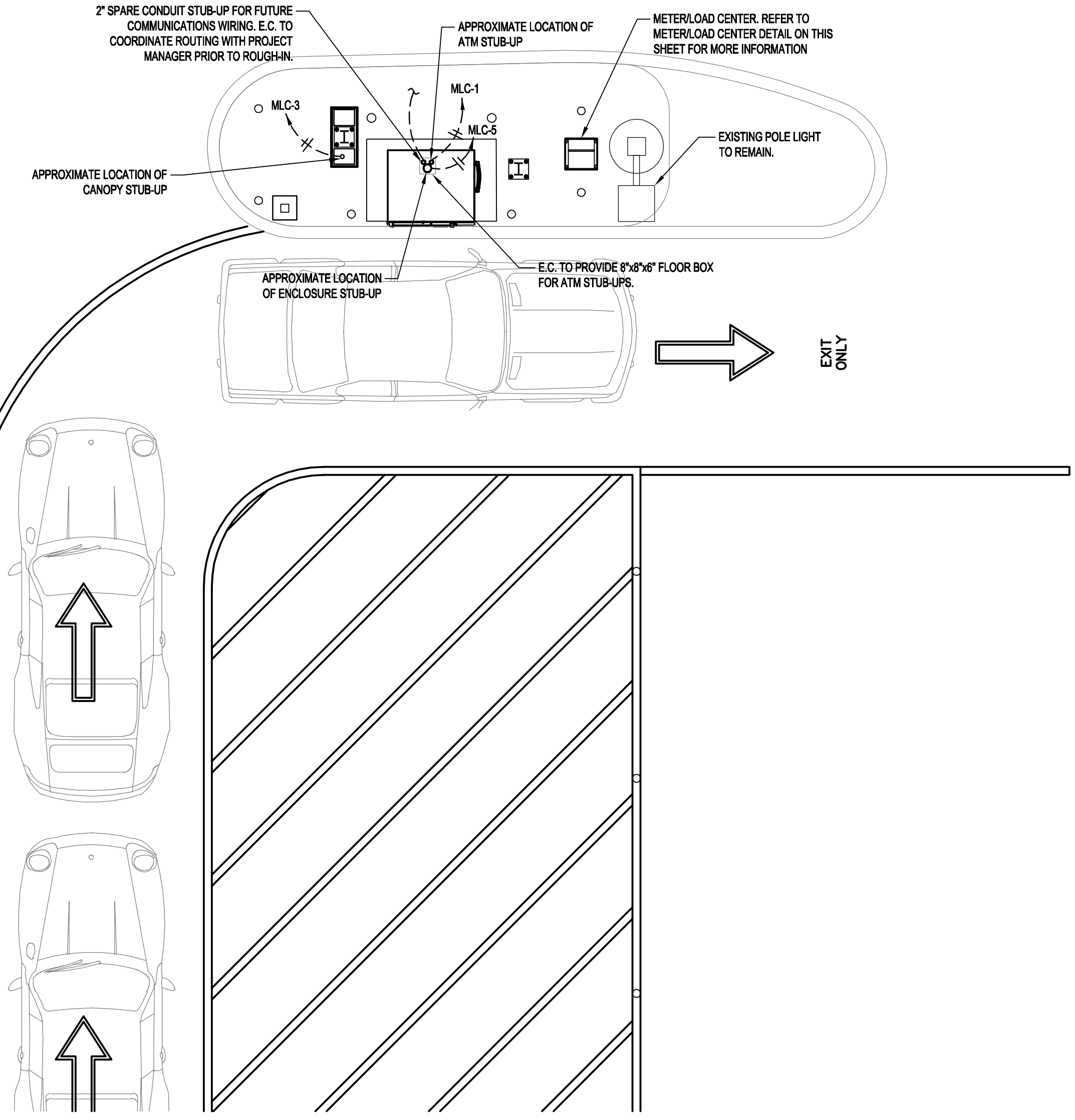
- NOTES:
- SUPPORT POST - USE ANY OF THE FOLLOWING:
 - 2-3" MIN. STEEL PIPE CAPPED AND CEMENTED IN GROUND
 - 2-4" MIN. PVC SCHEDULE 80 CEMENT FILLED AND CEMENTED IN GROUND
 - 2-3" MIN. CHANNEL IRON CEMENTED IN GROUND
 - MOUNTING HARDWARE - TWO 12 GAUGE 1-5/8" X 1-5/8" CONTINUOUS SLOT HOT DIPPED GALVANIZED CHANNEL (e.g. UNISTRUT) COMPLETE WITH 1-1/4" X 5/16" DIA. 13 THD SPRING NUT (2 PER CHANNEL), 5/16" HEX NUT, AND LOCK WASHER SECURELY MOUNTED TO SUPPORT POSTS.
 - CONDUIT SHALL BE RIGID GALVANIZED OR IMC STEEL, OR SCHEDULE 80 PVC (ELECTRICAL GRADE).
 - METER SOCKET MAY BE CONNECTED TO AN EXTERNAL GROUND ROD IF REQUIRED BY LOCAL INSPECTION AUTHORITIES.

METER AND DISTRIBUTION DETAIL

N.T.S.

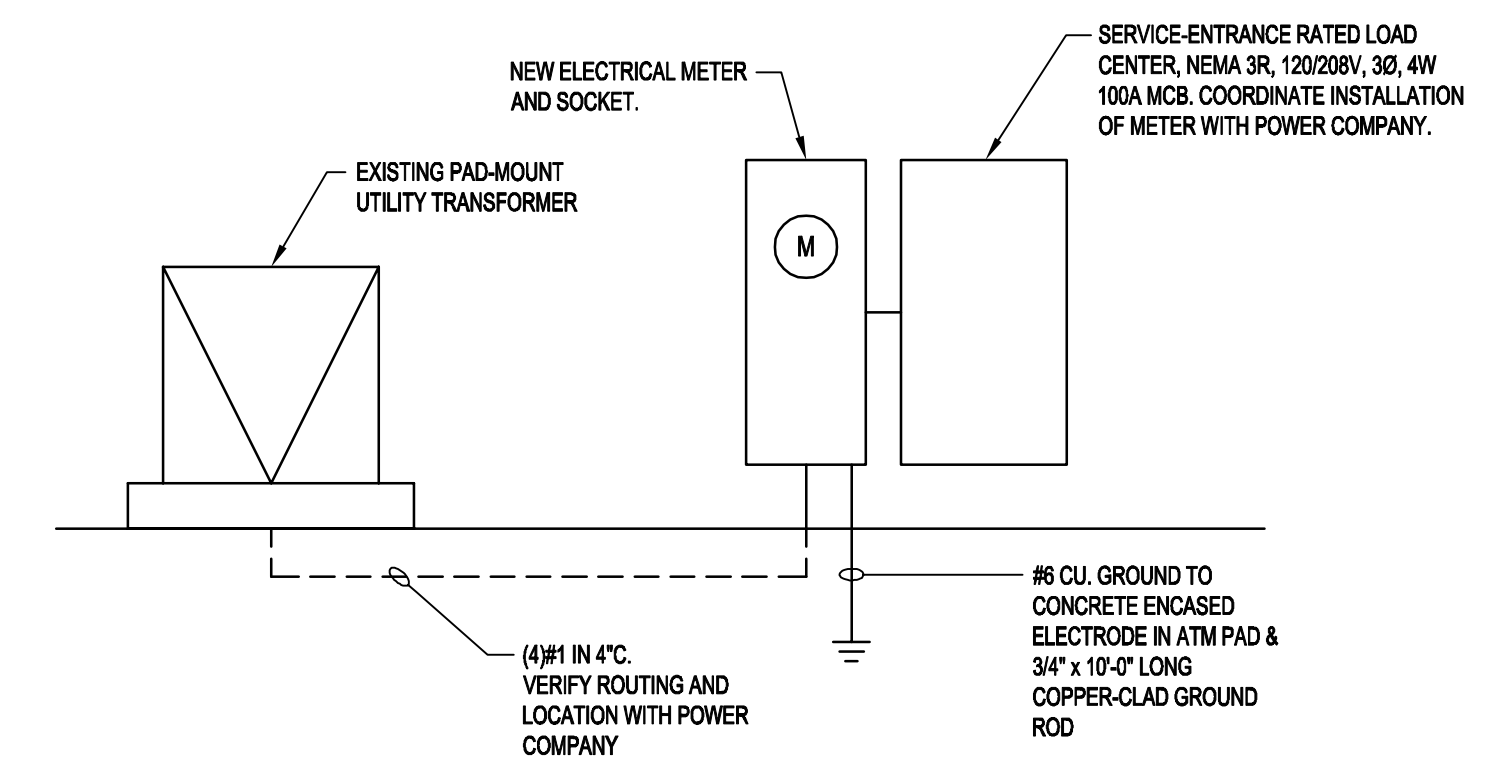
LOAD CENTER		MLC				
120/208	VOLTS	3	PH.			
100	AMPERE BUS	100	AMPERE MAIN			
		4	WIRE SOLID NEUTRAL			
			MCB			
			MOUNTING: FLUSH			
			SURFACE			
SPECIAL REQUIREMENTS						
NO.	KVA	DESCRIPTION	DESCRIPTION	KVA	NO.	
1	1.0	ATM	SPACE	-	2	
3	0.5	ATM CANOPY	SPACE	-	4	
5	0.5	ATM ENCLOSURE	SPACE	-	6	
KVA SUB TOTALS				1.0	0.5	0.5
				TOTAL CONNECTED LOAD		2.0

- ### PANELBOARD NOTES
- ALL BREAKERS SHALL BE 20A/1P, UNLESS NOTED OTHERWISE.
 - ALL BREAKERS SHALL BE HACR RATED.
- NOTE: NOT ALL NOTES BELOW MAY APPLY TO THIS PROJECT.
- [1] INDICATES BREAKER SHALL BE "SWD" RATED.
 - [2] INDICATES BREAKER SHALL BE COMBINATION "ARC-FAULT / GFI" TYPE.
 - [3] INDICATES BREAKER SHALL BE "GFI" TYPE, WITH RATING AS REQUIRED BY NEC PER APPLICATION. PROVIDE 5mA RATING FOR PERSONNEL PROTECTION. PROVIDE 30mA RATING FOR EQUIPMENT PROTECTION.
 - [4] INDICATES BREAKER SHALL BE SHUNT-TRIP TYPE.
 - [5] INDICATES BREAKER TO BE "ARC-FAULT" TYPE.
 - [6] INDICATES BREAKER TO HAVE LOCK-ON CLIP.
 - [7] INDICATES BREAKER TO HAVE LOCK-ON CLIP AND RED MARKING.
 - [8] INDICATES CIRCUIT TO HAVE REMOTE 5mA GFI PROTECTION MODULE MOUNTED IN JUNCTION BOX WITH HINGED COVER ADJACENT TO PANELBOARD. MODULE SHALL BE LABELED AS TO THE CIRCUIT AND EQUIPMENT THAT IS BEING PROTECTED.
 - [9] INDICATES BRANCH CIRCUIT ROUTED THROUGH EMERGENCY LIGHTING INVERTER.
 - [10] INDICATES TO FURNISH AND INSTALL HANDLE TIES FOR MULTIPLEXED CIRCUITS.
 - "C-#F" INDICATES DESIGNATION OF CONTACTOR CONTROLLING CIRCUIT. SEE CONTACTOR SCHEDULE.
 - "RP-#F" INDICATES DESIGNATION OF RELAY / LIGHTING CONTROL SYSTEM MODULE CONTROLLING CIRCUIT. SEE LIGHTING CONTROL DETAILS.



ENLARGED ATM PLAN
1/4" = 1' - 0"

- ### ONE-LINE DIAGRAM NOTES
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER COMPANY REQUIREMENTS PRIOR TO BIDDING & INCLUDE THE COST OF ALL ASSOCIATED LABOR, MATERIALS, & CHARGES IN HIS BID.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWING SUBMITTAL.
 - ALL BUSSING SHALL BE COPPER.
 - ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
 - PROVIDE NAMEPLATES PER NAMEPLATE DETAIL.
 - REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 110.16 FOR LABELING OF PANELS FOR ARC FLASH HAZARD WARNING AS WELL AS FOLLOWING REQUIRED SAFETY PRECAUTIONS WHEN SERVICING OR MAINTAINING ELECTRICAL EQUIPMENT.
 - ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
 - EXTERIOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE NEMA 3R RATED AND BE FURNISHED WITH HEATERS, THERMOSTAT AND DISCONNECTING MEANS INTEGRAL TO EQUIPMENT.
 - GROUNDING ELECTRODE SYSTEM CONDUCTORS SHALL BE COPPER.
 - CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
 - FEEDER ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING OF FEEDERS (OVERHEAD OR UNDERGROUND) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.



ELECTRICAL ONE-LINE DIAGRAM

N.T.S.

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ELECTRICAL SPECIFICATIONS

Section 260010 - General Provisions

- A. General
- Requirements specified in Division 1, instructions to bidders, supplemental general conditions, special conditions, addenda, alternates, contract and proposal, along with Division 26, 27, 28 and all its sections, comprise the contract documents for the electrical contract, along with these specifications as though they were one, and anything implied by the specifications shall be interpreted as also implied by the drawings and vice versa. Provide necessary items for a complete installation of all electrically operated equipment listed in the specifications or shown on the contract drawings.
 - The architectural, structural, mechanical, plumbing and equipment drawings and specifications are incorporated into, and become a part of this division. This contractor shall examine all such drawings and specifications and become thoroughly familiar with the provisions contained therein. The submission of his bid shall indicate such knowledge.
 - Electrical drawings are diagrammatic. They are intended to show the approximate locations of equipment and conduit. Dimensions given on the plans, in figures, shall take precedence over scaled dimensions and shall be verified in the field. The electrical contractor shall layout all equipment rooms to make sure the equipment, as purchased, fits in the room or space shown. Exact location of all equipment shall be verified in the field and routing of conduits shall suit field conditions.
 - Until the time of installation, the architect reserves the right to make minor changes in the location of conduit and equipment without additional cost to the contract.
 - The electrical drawings and specifications are intended to supplement each other. Material and labor necessary to the project shall be furnished and installed even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but obviously necessary for the completion and proper functioning of the system, shall be furnished and installed by the electrical contractor.
 - Arrange all equipment substantially as shown on the drawings. Make deviations only where necessary to avoid interference. Check all equipment sizes against available space prior to shipment to avoid interference.
 - Examine the work of other trades insofar as their work comes in contact with or is covered by this work in no case attach to, or finish against any defective work or install work in a manner which will prevent proper installation of the work of other trades.
 - Electrical contractor shall verify with other trades all electrical characteristics of equipment requiring electrical connections, contractor shall verify voltage, phase and horsepower and shall notify engineer of any discrepancies prior to start of work. Electrical contractor shall provide disconnecting means and overload protection for all equipment, unless furnished integral with equipment package.
 - It is the intent of these drawings that this be a complete electrical job, any errors or omissions shall be brought to the attention of the engineer prior to bidding the job.
 - Should any of the general notes, specifications, details or instructions on plans conflict, the strictest provision shall govern.
 - Do NOT scale drawings.
 - The contractor shall make provisions for the delivery and safe storage of his/her materials and equipment in coordination with the work of other trades. Materials shall be delivered at such stages of the work as will expedite the work as a whole and shall be marked and stored in such a way as to be easily checked and inspected. The arrival and placing of large equipment items shall be scheduled early enough to permit entry and setting when there is no restriction or problem due to size and weight. Protection of all finishes during delivery is the responsibility of the contractor.
- B. Visit to the Site
- This contractor shall visit the site of the work and familiarize himself with all conditions affecting his work. The submission of his proposal shall indicate such knowledge. No additional payment shall be made on claims that arise from a lack of knowledge of the existing conditions
- C. Code and Permits
- Installation shall be in full accordance with all codes, rules and regulations of municipal, city, county, state and public utilities and all other authorities having jurisdiction over the premises.
 - Comply with any specification requirements that are in excess but not in conflict with code requirements.
 - The contractor shall secure and pay for all permits, plan reviews and certificates of inspection in connection with his work, required by the foregoing authorities. Before final payment of the contract is allowed, all certificates shall be delivered to the architect in duplicate.
 - Electrical material and equipment shall bear the UL label except where UL does not label such types of material and equipment.
- D. Shop Drawings Submittals
- The electrical contractor shall submit product data and shop drawings. Each submittal shall be identified using the respective specification numbering system and titles. Each submittal shall clearly identify which products and options are applicable. The submittals shall be submitted through the architect to the engineer and then, if necessary, resubmitted for final approval. Submittals shall be submitted for the following items:
 - Panelboards, including fault current study based on equipment being supplied.
 - Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.
 - Each submittal shall be provided with a cover identifying the following:
 - Name of the job
 - Location of the job, address, city and state.
 - Name and address of the company issuing the submittal.
 - Date of the submittal
 - All submitted product data and shop drawings (manufacturers' equipment descriptive sheets or vendors' prepared drawings) shall have the general contractor's or subcontractor's "stamp of approval" indicating that the item submitted is as called for on the plans and specifications, is approved by the general contractor or subcontractor, the date of approval and initialed by the person approving the submittal and the name of the company submitting said equipment for approval.
 - Any submittal not as specified shall be returned without review for corrections and re-submittal.
 - Every effort shall be made, in checking the shop drawings, to detect and correct all errors, omissions and inaccuracies. Failure to do this will not relieve the electrical contractor of the responsibility for the proper and complete installation in accordance with the contract documents.
- E. As-built Drawings
- Submit three paper-copy set(s) of marked-up record prints to the architect. Contractor shall use red ink for all contractor mark-ups on record prints.
 - Submit PDF electronic files of scanned record prints. Scanned record prints shall be in color.
 - Print and scan each drawing, whether or not changes and additional information were recorded.
- F. Standards and Substitutions
- Wherever the words "approved equal", "as directed" or similar phrases are used in the following specifications, they shall be understood to refer to the owner as the approving agency. The name or make of any equipment or materials named in this specifications (whether or not the words "or approved equal" are used) shall be known as the "standard".
 - These specifications establish quality standard of materials and equipment to be provided. Specific items are identified by manufacturer, trade name or catalog designation. This contractor shall submit his base bid price based upon standard specified equipment described herein and as detailed on drawings and associated contract documents. These specifications are not to be considered proprietary. The contractor may submit information on materials and manufacturers (other than those listed) for review by the architect and engineer no later than ten (10) days before bids are submitted. Manufacturers of products accepted by the architect and engineer will be listed in an addendum to the specifications as an acceptable substitution equipment accepted as detailed below and shall be shown as a separate add or deduct price to be factored into the base bid price by the architect and owner if accepted.
 - Should the contractor propose to furnish materials and equipment other than those specified or approved by addendum, submit a written request for substitutions to the architect at the bid opening. The request shall be an alternate to the original bid; be accompanied with complete descriptive (manufacturer, brand name, catalog number, etc.) and technical data for all items. Failure by this contractor to submit the requisite documentation detailed above shall be understood by the architect and engineer to indicate that substitute equipment will not be presented by the contractor for consideration. Such substitutions will not be considered after the bid opening date and delay of project will not be permitted for further inspection and evaluation after this date.
 - Where such substitutions alter the design or space requirements indicated on the drawings, include all items of cost for the revised design and construction including cost of all allied trades involved.
 - Acceptance or rejection of the proposed substitutions shall be subject to approval of the architect and engineer. If requested, the contractor shall submit (at his cost) inspection samples of both the specified and proposed substitute items.
 - In all cases where substitutions are permitted, the contractor shall bear any extra cost of evaluating the quality of the material and equipment to be provided.

Section 260010 (cont.)

- G. Testing and Placing in Service
- Any material or equipment failing a test shall be repaired or replaced at the contractor's expense.
 - Tests shall include the following:
 - Measure the load on each phase of the main service and each phase of every feeder under full load conditions.
 - Measure the no-load and full-load voltages (phase to phase, phase to neutral and phase to ground for each phase of each service, of each separately derived system, and at each panelboard or transformer).
 - Measure the ground resistance of the main service grounding electrode and the ground resistance of each separately derived system's grounding electrode.
 - Make insulation resistance tests on all dry type transformers and motors.
 - Provide performance testing as required per N.E.C. or local authority having jurisdiction.
- H. Interferences
- Before the installation of any item begins, the electrical contractor shall carefully ascertain that it does not interfere with clearances for the erection of finish beams, columns, pilasters, walls or other structural or architectural members as shown on the architectural drawings. If any work is installed and the architectural design cannot be followed, this contractor shall, at his own expense, make changes in his work as directed by the architect to permit the completion of the architectural work in accordance with drawings and specifications.
 - It shall be the duty of this contractor to report any interferences between his work and that of any of the other contractors as soon as they are discovered. The architect shall determine which equipment will be relocated, regardless of which was installed first. His decision will be final.
- I. Quality Assurance
- All products shall be new and of the type and quality specified. Where materials, equipment, apparatus or other products are specified by manufacturer, brand name, type of catalog number, such designation shall establish the standards of the desired quality and style. It is the intent of these specifications to establish a standard of quality of materials and equipment installed.
- J. Special Inspections
- Special Inspection (as applicable) is to be provided in addition to inspections conducted by the department of building safety and shall not be construed to relieve the owner or his/her authorized agent from requesting periodic and called inspections required by the building code. Special Inspection shall be paid by the owner.
 - Special Inspector shall meet the qualifications as stated in the applicable building code and shall perform the duties and responsibilities as outlined in the applicable building code.
 - The electrical contractor shall provide access to areas requiring testing or inspections, and provide requested documentation (if required by the Special Inspector).

Section 260050 - Basic Electrical Materials and Methods

- A. Nameplates
- General: furnish and mount on each panelboard, large junction box, a nameplate descriptive of the equipment or equipment controlled.
 - Provide black and white nameplates constructed from laminated phenolic with a white center core. Letters shall be engraved in the phenolic to form white letters 3/8" high. Fasten the nameplates with an adhesive type fastener.
- B. Mounting Accessories
- This contractor shall furnish and install all angle iron, channel iron, rods, supports, hangers, concrete or plywood required to install, mount and support any electrical equipment or device called for on the plans.
 - Supporting material shall be complete with hangers, connectors, bolts, clamps and necessary accessories to make a complete installation. Supporting material shall be galvanized, painted or otherwise suitably finished. Products by Binkley, Steel City, or Raco will be acceptable.
 - All surface-mounted equipment on block walls shall be mounted on 3/4" plywood backboard. All floor-mounted equipment shall be installed on a 4" high concrete housekeeping pad.
- C. Execution
- The electrical work for construction proposed shall conform to all federal (OSHA), state, all specific safety requirements and the requirements of the current edition of the NEC.
 - All cutting, patching, excavating, backfilling and concrete work related to this contract will be the responsibility of the electrical contractor. This contractor shall assume the responsibility of providing the sleeves, chases and openings necessary for the electrical installation and for their repair in an acceptable manner, as determined by the architect. All holes shall be core-drilled. Provide fire stopping materials, UL Listed for application, in all openings created through fire-rated walls, floors or ceilings. Contractor shall field verify slab on grade floor construction type prior to cutting. Under no circumstances shall the contractor cut a structural floor slab thicker than four (4") inches without prior written approval from Engineer of Record. Notify Engineer of Record of any slab thickness greater than four (4") inches prior to proceeding with any saw cutting.
 - This contractor shall be responsible for providing all required access panels necessary for his work, coordinate with architect prior to installation.
- D. Materials and Workmanship
- All work shall be installed in a practical and workmanlike manner, by mechanics skilled in the several trades necessary.
 - All materials shall be new and free from defects and shall be the best of their several kinds unless specified or indicated on the drawings to the contrary.
 - During each phase and at the completion of the construction, this contractor shall remove all debris and excess materials caused by his work. He shall leave the area of operation broom clean.
 - All electrical equipment shall bear the underwriters laboratories label or ETL label.
 - This contractor shall guarantee his workmanship and material (lamps excepted) for a period of one year from the date of building opening and leave his work in perfect order at the completion. Should defects develop within the guarantee period, the contractor shall, upon notice of the same, remedy the defects and have all damages to other work or furnishings caused by the repairs corrected at his expense to the condition before such damage.
- E. Scope of Work
- The electrical contractor shall provide all labor, material, storage, unpacking and placement; to include but not be limited to, the following items:
 - Complete electrical distribution system including, but not limited to panelboards and feeders.
 - Complete branch circuit wiring system.
 - Testing of all cables and circuit wiring after installation.
 - Grounding and Bonding of the electrical system.
 - Electric service.
- F. Electric Service
- Provide trenching and backfill to the power company specifications.
 - Provide conduit for primary service where required by the power company.
 - Concrete encase conduits where required by the power company and where indicated on the plans.
 - Provide metering to power company specifications.
 - Pay the cost of all power company charges connected with permanent electric service to the ATM.
 - Coordinate all work with the power company and perform any work necessary to assure a complete, working installation. The entire service installation shall be in complete conformance with the power company's requirements.
 - Verify the exact routing of the primary and secondary services, and all service requirements, with the power company prior to bidding.

Section 260519 - Wiring and Cable

- A. Color code conductors (except control and instrumentation conductors) as follows:
- | Phase | Color |
|---------|-------|
| Phase A | Black |
| Phase B | Red |
| Phase C | Blue |
| Neutral | White |
| Ground | Green |
- #12 and #10 conductors shall have continuous insulation color, as listed above.
 - Color code conductors larger than above, which do not have continuous insulation color by application of at least two laps of colored tape on each conductor at all points of access including junction boxes. Color tape shall be the equal of 3M products Scotch #35.
 - Conductors shall be soft annealed copper insulated for 600 volts unless specifically indicated otherwise. Aluminum conductors are not allowed on this project.
- B. Insulation type shall be type THWN for wire sizes #8 AWG and larger and THHN or THWN for #10 AWG and smaller. THHN shall not be used in wet or damp locations.
- C. Flexible cord shall be heavy duty type so with an equipment ground conductor in addition to the current carrying conductors.

Section 260519 (cont.)

- D. Provide #12 conductors, unless otherwise indicated.
- Control conductors shall be #14 minimum for NEC class I and #16 for NEC class II.
- E. Conductors #8 AWG and larger shall be stranded.
- F. Conductors #10 AWG and smaller shall be solid.
- G. Install wiring in conduit.
- H. Connect #10 and smaller wires with constant pressure expandable spring type connectors, "Scotchlok" by 3M or B-Cap by Buchanan.
- I. Connect #8 and larger wires with compression connectors or splices as manufactured by Burndy or T&B.
- J. Insulate splicing connectors to at least 200% of the wire insulation. Use pre-stretched tubing connector insulators, 3M PST for #2 and larger conductors.
- K. Pull conductors using recognized methods and equipment leaving at least 6" wire at all junction boxes for connections.
- Clean out each conduit system before pulling wire.
- L. Form and tie all wiring in panelboards.
- M. There shall be no wirenut joints or splices made inside switchboards/panelboards.
- N. Branch circuit wire sizes (and conduits) shall be increased from those indicated on the plans to prevent excessive voltage drop. Branch circuits shall be installed with wires of sufficient size so that voltage drop between the panel and the loads does not exceed limit of 3%.
- O. Regardless of the temperature rating of the conductor insulation, all conductor ampacity rating for this project shall be determined from the 75°C conductor temperature ratings indicated in the NEC tables. Where equipment or devices are provided with terminals/lugs rated for 60°C, the ampacity rating of the 75°C conductor shall be limited to its associated 60°C rating as indicated in the NEC tables. The electrical contractor shall be responsible to increase the conductors and conduit size as required.
- P. Circuits may be multi-plexed in conduit provided wire is properly derated and conduit sized per code. Under no circumstances shall more than six (6) current carrying conductors be run in a single conduit.

Section 260526 - Grounding and Bonding

- A. Ground all equipment per N.E.C.
- B. Ground each outside lighting pole separately with one ground rod and a #6 ground wire.
- C. All conduits shall contain a code-sized ground wire size per N.E.C. in addition to the conductors shown on the plans. Where circuit conductors are increased in size for any reason (i.e. voltage drop, derating, etc.), the ground wire size shall be increased proportionately (according to circular mil area).

Section 260533 - Raceways and Boxes

- A. Raceways
- All wire shall be run in accordance with code in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.) unless otherwise specifically stated herein.
 - Conduit in exterior walls, below floor slab, or underground shall be rigid, threaded, galvanized, heavy wall type.
 - Carlton PVC type 40 heavy wall conduit with ground wire may be used below floor slab or underground in lieu of rigid, threaded, galvanized conduit. PVC 40 conduit shall not be run in or above floor slab. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.
 - Conduit run exposed to the weather shall be heavy wall, metal threaded type.
 - Conduit size shall be 3/4" minimum.
 - Conduit shall be securely fastened in place.
 - Use watertight joints with buried and concrete encased conduit. All buried conduits outside of buildings shall have a minimum of 24" of cover. Metal conduits buried in earth shall be painted (two coats) with heavy asphaltum paint.
 - Support runs of conduit as detailed in the appropriate table of the national electrical code (NEC).
 - Thread lubrication/sealant is required on outdoor and underground threaded metal joints.
- B. Pull and Junction Boxes
- Install pull and junction boxes where shown on the drawings, and where required for changes in direction, at junction points, and to facilitate wire pulling. Furnish box sizes in accordance with NEC unless larger boxes are indicated.
 - Provide steel boxes and removable covers of code gauge, hot rolled sheet steel, hot dipped galvanized inside and outside, for above ground work. Furnish weatherproof boxes when installed above ground outside.
 - Provide cast iron boxes, hot dipped galvanized inside and outside where shown on the drawings. Furnish removable covers with gaskets and stainless steel, brass or bronze screws.
 - Provide concrete boxes for underground work unless otherwise indicated on the drawings. Furnish steel frames and covers with the cover attached to the frame with hexagon head, brass or bronze cap screws, 3/8" in diameter. Provide a rubber gasket for sealing between the cover and the frame. Paint the cover with two coats of heavy asphaltum.

Section 260573 - Fault Current Study

- A. The fault current study shall be performed by the distribution equipment manufacturer. The study shall be submitted to the engineer prior to receiving final approval of the distribution equipment shop drawings and/or prior to release of equipment for manufacture. If formal completion of the study may cause delay in equipment manufacture, approval from the engineer may be obtained for a preliminary submittal of sufficient study data to ensure that the selection of device ratings and characteristics will be satisfactory.
- B. The fault current study shall be performed with the aid of a "Windows" based computer program.
- C. The input data shall include the power company's fault current contribution, resistance and reactance components of the branch impedances, the X/R ratios, base quantiles selected and other source impedances.
- D. Short circuit momentary duty values and interrupting duty values shall be calculated on the basis of three phase bolted short circuits at each switchgear bus, switchboard, distribution panel, branch circuit panel, and other significant locations through the system. The short circuit tabulations shall include symmetrical fault currents and X/R ratios. For each fault location, the total duty on the bus, as well as the individual contribution from each connected branch, shall be listed with its respective X/R ratio.

Section 262416 - Panelboards

- A. Panelboards
- Panelboards shall be enclosed dead front safety type with features and ratings as scheduled on the drawings.
 - Molded case circuit breakers shall be as scheduled on the drawings and specified in this division.
 - All bus bar shall be rectangular solid copper.
 - Space, where shown in panel schedules, designates space for future protective devices and shall include bus and support.
 - Install cabinets so that center of the top breaker does not exceed 6'-6" above the finished floor.
 - Entries on directory cards shall be typed, complete and accurate.
 - All bolted connections shall be torqued in accordance with manufacturer's standards.
 - Electrical contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At completion of job, electrical contractor shall take current reading checks of respective phases. A minimum of circuit connections shall be rearranged to balance, as closely as possible, the load in the panel.
 - All breakers shall be bolt-on type.
 - Manufacturer shall be Square D, Siemens, G.E., or Cutler-Hammer.

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