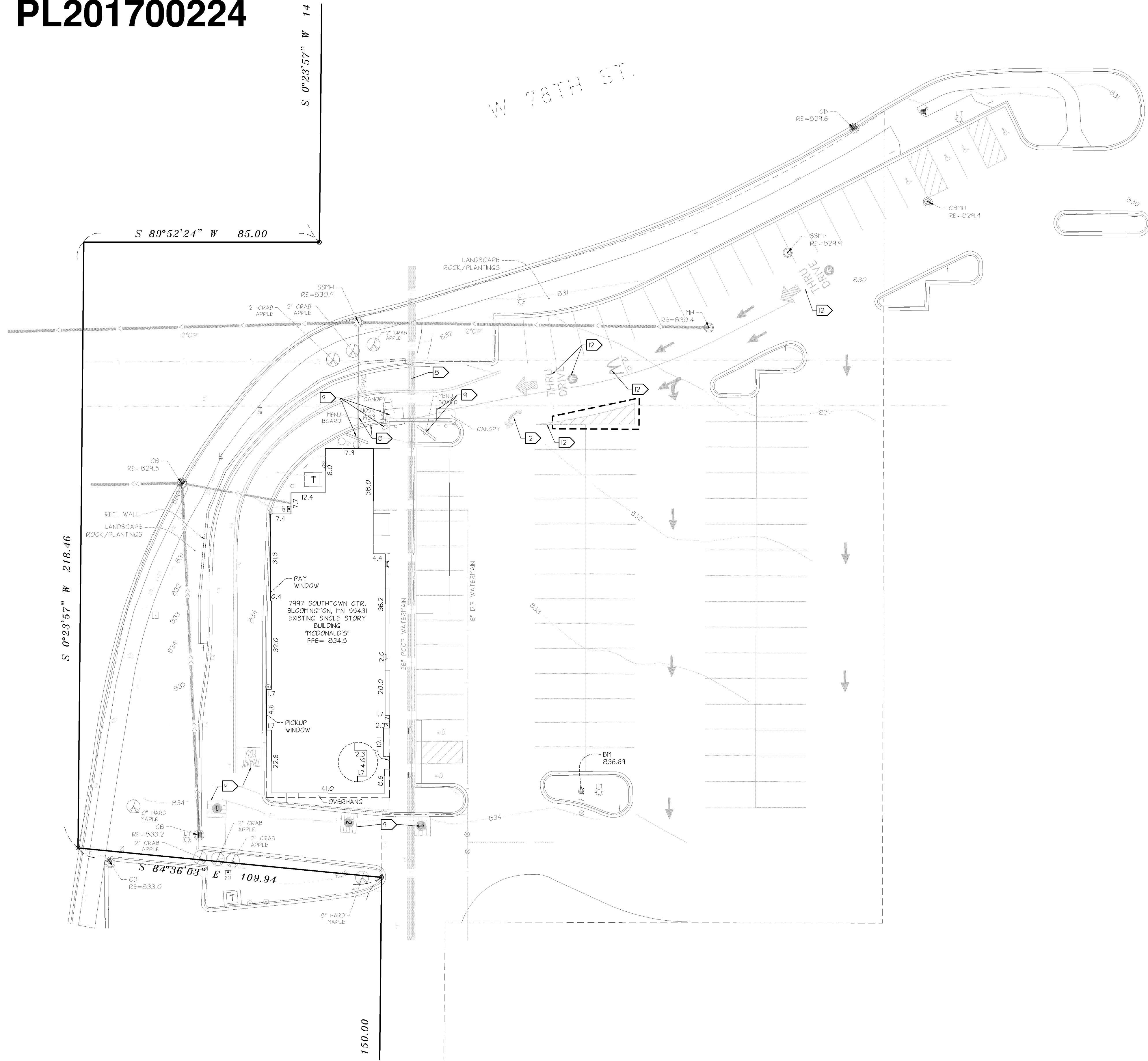


PL201700224



EXISTING CONDITIONS

- BACKGROUND INFORMATION SHOWN IS FROM SURVEY BY LANDFORM PROFESSIONAL SERVICES, LLC, MINNEAPOLIS, MN, ON JANUARY 18, 2017, EXPRESSLY FOR THIS PROJECT; BLOOMINGTON, MN RECORD DRAWINGS; AND UTILITY SERVICE PROVIDERS. LANDFORM OFFERS NO WARRANTY, EXPRESSED OR WRITTEN, FOR INFORMATION PROVIDED BY OTHERS. EXISTING PROJECT CONDITIONS SHALL BE VERIFIED PRIOR TO BEGINNING CONSTRUCTION. ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

DEMOLITION AND CLEARING NOTES

- OBTAIN PERMITS FOR DEMOLITION, CLEARING, AND DISPOSAL PRIOR TO BEGINNING.
- CONTACT UTILITY SERVICE PROVIDERS FOR FIELD LOCATION OF SERVICES 72 HOURS PRIOR TO BEGINNING DEMOLITION AND CLEARING.
- DIMENSIONS SHOWN FOR REMOVAL ARE APPROXIMATE. COORDINATE WITH NEW CONSTRUCTION TO ENSURE APPROPRIATE REMOVAL OF EXISTING FACILITIES.
- SAWCUT EXISTING PAVEMENT. REMOVE CONCRETE WALKS AND CURBING TO THE NEAREST EXISTING JOINT BEYOND CONSTRUCTION LIMITS.
- COMPLETE DEMOLITION WITH MINIMAL DISRUPTION OF TRAFFIC. COORDINATE LANE CLOSURES WITH THE REGULATORY AUTHORITY AND PROVIDE ADVANCE NOTIFICATION TO AFFECTED EMERGENCY RESPONSE PROVIDERS.
- PROVIDE BARRICADES, LIGHTS, SIGNS, TRAFFIC CONTROL, AND OTHER MEASURES NECESSARY FOR PROTECTION AND SAFETY OF THE PUBLIC AND MAINTAIN THROUGHOUT CONSTRUCTION. THE CITY REQUIRES TRAFFIC CONTROL MEASURES TO BE IN PLACE DURING UTILITY INSTALLATION, EXISTING BUILDING DEMOLITION, DRIVEWAY INSTALLATION, SIDEWALK INSTALLATION AND FINAL RESTORATION WITHIN THE RIGHT-OF-WAY.
- PROTECT STRUCTURES, UTILITIES, TREES, PLANT MATERIAL, SOD, AND ADJACENT PROPERTY FROM DAMAGE DURING CONSTRUCTION UNLESS NOTED FOR REMOVAL. DAMAGE SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AT NO ADDITIONAL COST.
- REMOVE EXISTING SITE FEATURES INCLUDING, BUT NOT LIMITED TO, UNDERGROUND UTILITIES, PAVING, CURBING, WALKWAYS, FENCING, RETAINING WALLS, SCREEN WALLS, APRONS, LIGHTING, RELATED FOUNDATIONS, SIGNAGE, BOLLARDS, LANDSCAPING, AND STAIRWAYS WITHIN THE CONSTRUCTION LIMITS UNLESS NOTED OTHERWISE.
- COORDINATE REMOVAL, RELOCATION, TERMINATION, AND RE-USE OF EXISTING PRIVATE UTILITY SERVICES AND APPURTENANCES WITH THE UTILITY COMPANIES. RESTORE ELECTRIC HANDHOLES, PULLBOXES, POWERPOLES, GUYLINES, AND STRUCTURES DISTURBED BY CONSTRUCTION IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS.
- HAUL DEMOLITION DEBRIS OFF-SITE TO A FACILITY APPROVED BY REGULATORY AUTHORITIES FOR THE HANDLING OF DEMOLITION DEBRIS.
- REMOVE PAVEMENT MARKINGS.

DEMOLITION LEGEND

- TREE/SHRUB REMOVAL
- CURB REMOVAL
- PAVEMENT SAWCUT
- CONSTRUCTION LIMITS
- TREE PROTECTION
- UTILITY LINE REMOVAL

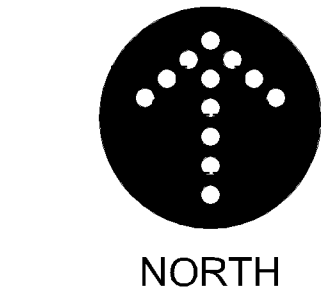
McDONALD'S USA, LLC.

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DRAWN BY TDP	STATE MN
PROTO ISSUED	COUNTY HENNEPIN
REVIEWED BY CNC	STREET ADDRESS 7997 SOUTHTOWN CENTER
DATE REVIEWED 07-10-17	SHEET NAME EXISTING CONDITIONS & DEMOLITION
DATE ISSUED 10-1-17	NATIONAL NUMBER 19761
	STATE NUMBER 022-0916

SHEET NO. C1.1
FILE NAME: C101MCD208.DWG
PROJECT NO. MCD12208



0 20 40

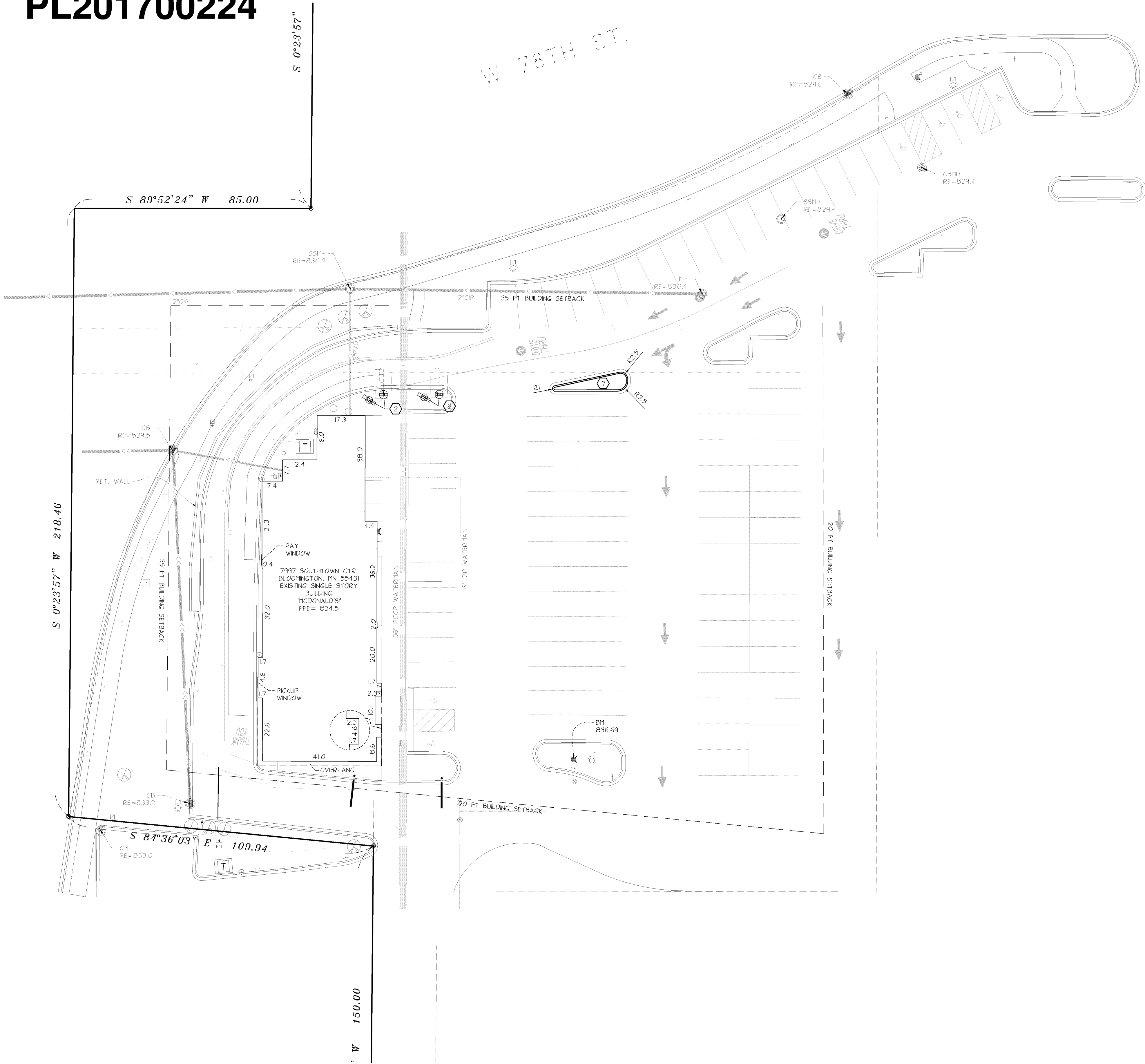


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Add bike rack or
identify existing bike
racks to ensure they
meeting bike parking
requirements.

SITE CONSTRUCTION NOTES

1. McDONALD'S PYLON SIGN. - NOT USED.
2. DRIVE-THRU SIGNALS. SEE SHEET C2.2.
3. CONCRETE DRIVE APRONS AND SLABS. REFER TO SHEET C3.1 FOR SPECIFICATIONS. - NOT USED.
4. CONCRETE SIDEWALK. MEET AND MATCH EXISTING SIDEWALK. REFER TO SHEET C3.1. - NOT USED.
5. CONCRETE PATIO. MEET AND MATCH SIDEWALK. - NOT USED.
6. BITUMINOUS PAVEMENT. REFER TO SHEET C3.1 FOR SPECIFICATIONS. - NOT USED.
7. PARKING LOT LIGHT. REFER TO SHEET C2.4 FOR DETAILS. - NOT USED.
8. 6' X 42' RAILING. REFER TO ARCHITECTURAL. - NOT USED.
9. PLANTING AREA. REFER TO SHEET B2.1 FOR DETAILS. - NOT USED.
10. TRASH ENCLOSURE. REFER TO ARCHITECTURAL. - NOT USED.
11. STACKING DISTANCE IS 95'
12. CONNECTION TO PUBLIC SIDEWALK. - NOT USED.
13. BKS RACK. REFER TO SHEET B2.1 FOR DETAILS. - NOT USED.
14. ROCK MUNCH TO MATCH ADJACENT ISLANDS.

SITE PLAN NOTES

1. OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WITHIN, OR USE OF, PUBLIC RIGHT-OF-WAY.
2. THE DIGITAL FILE, WHICH CAN BE OBTAINED FROM THE ENGINEER, SHALL BE USED FOR STAKING. DISCREPANCIES BETWEEN THE DRAWINGS AND THE DIGITAL FILE SHALL BE REPORTED TO THE ENGINEER. THE BUILDING FOOTPRINT, AS SHOWN ON THESE DRAWINGS, AND THE DIGITAL FILE, SHALL BE COMPARED TO THE STRUCTURAL DRAWINGS PRIOR TO STAKING.
3. DIMENSIONS SHOWN ARE TO FACE OF CURB AND EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.

GREEN SPACE

McDONALD'S USA, LLC.

THESE DRAWINGS AND SPECIFICATIONS ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF McDONALD'S. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF McDONALD'S. THESE DRAWINGS ARE NOT TO BE USED FOR ANY OTHER PROJECT OR AT A LATER DATE. USE OF THESE DRAWINGS FOR ANY OTHER PROJECT OR AT A LATER DATE WITHOUT THE WRITTEN PERMISSION OF McDONALD'S IS STRICTLY PROHIBITED. ANY REUSE OR REPRODUCTION OF THE CONTRACT DOCUMENTS FOR ANY OTHER PROJECT IS NOT AUTHORIZED.

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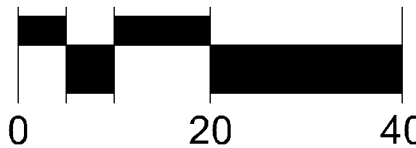
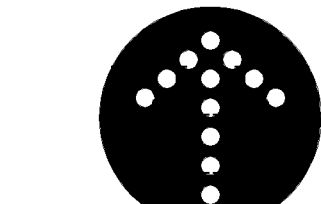
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DRAWN BY	TDP
PROTO ISSUED	
REVIEWED BY	CNC
DATE REVIEWED	07-10-17
DATE ISSUED	10-1-17

CITY	BLOOMINGTON
STATE	MN
COUNTY	HENNEPIN
STREET ADDRESS	7997 SOUTHTOWN CENTER
SHEET NAME	SITE PLAN
NATIONAL NUMBER	19761
STATE NUMBER	022-0916

C2.1

FILE NAME: C201MCD208.DWG
PROJECT NO. MCD12208

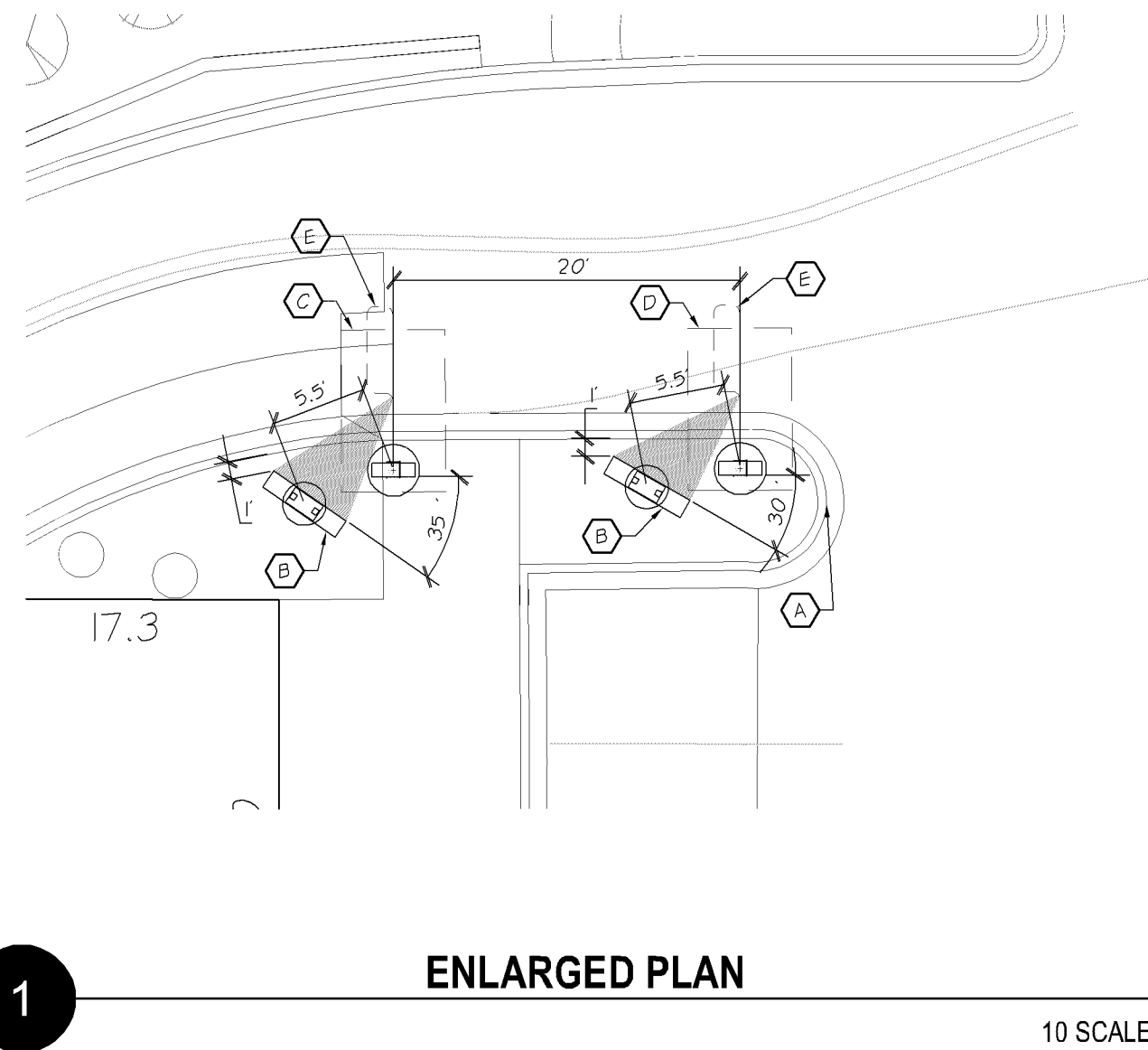
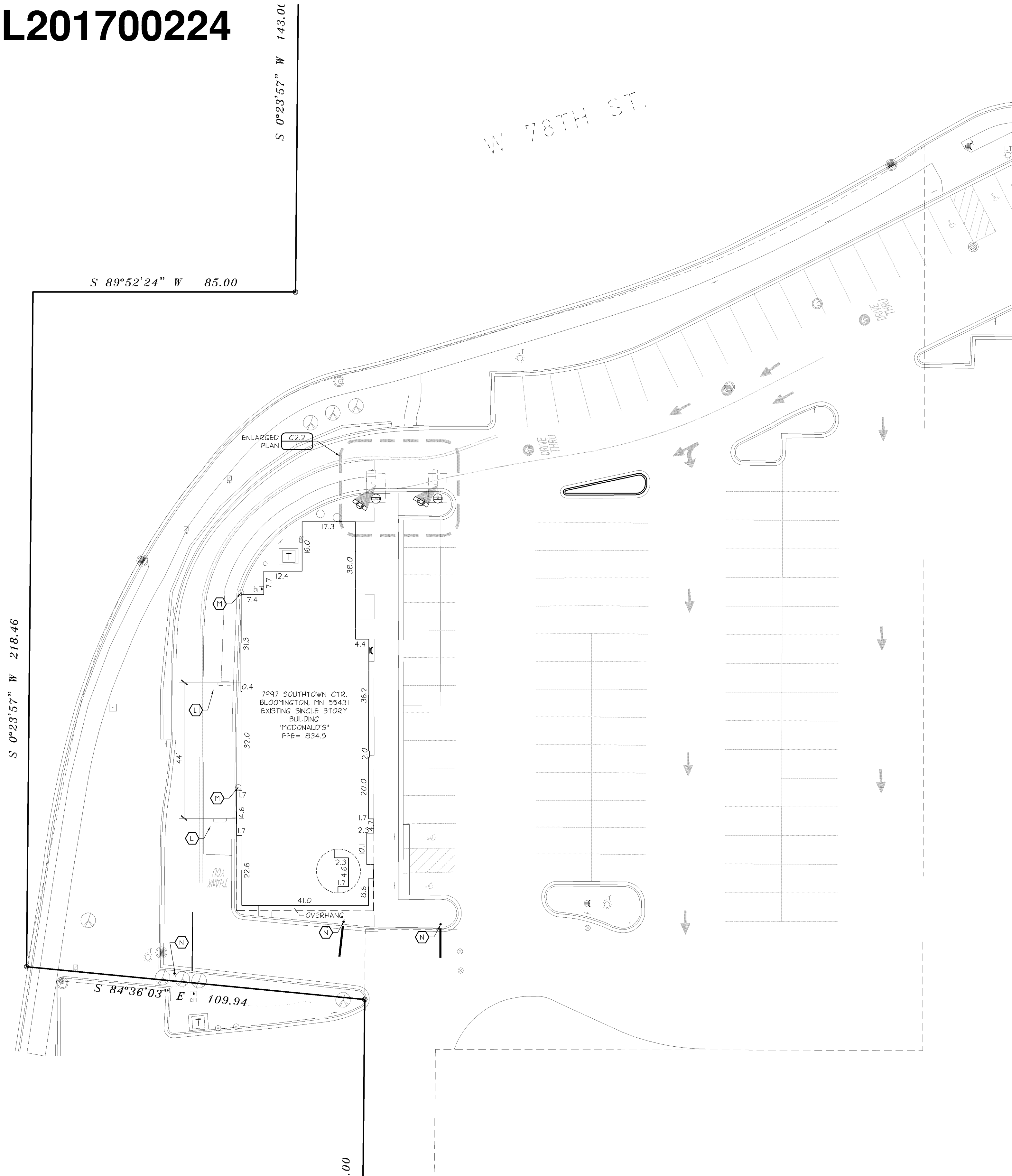


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DRIVE-THRU CONSTRUCTION NOTES

- (B)** NEW CONCRETE CURB AND GUTTER. - NOT USED.
- (B)** INSTALL NEW OUTDOOR MENU BOARD. SEE SHEET C2.3 FOR FOUNDATION DETAIL, SHEET C2.5 FOR SCHEMATIC DETAIL AND SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.
- (G)** PRIMARY LANE CANOPY. LOCATE 95' FROM C.L. OF CANOPY TO C.L. OF CASH WINDOW MEASURED ALONG C.L. OF TRAVEL PATH. SEE SHEET C2.3 FOR FOUNDATION DETAIL, SHEET C2.5 FOR SCHEMATIC DETAIL AND MANUFACTURER FOR INSTALLATION INSTRUCTIONS. SIGN CONTRACTOR TO PROVIDE SIGN CLEARANCE SIGNAGE ON STRUCTURE.
- (D)** THE MIDPOINT OF THE SECONDARY COD FACE IS LOCATED 20'-0" (+ 2'; 20'-22") IN FROM THE CENTER OF THE PRIMARY COD AS MEASURED ALONG THE FACE OF THE CURB OF THE DRIVE-THRU LANE. SIGN CONTRACTOR TO PROVIDE SIGN CLEARANCE SIGNAGE ON STRUCTURE.
- (E)** INSTALL PRIMARY LANE DETECTOR LOOP. FLIP LOOP FORWARD.
- (F)** INSTALL SECONDARY LANE DETECTOR LOOP 2'-0" FORWARD OF C.L. OF COD. FLIP LOOP FORWARD. - NOT USED.
- (G)** SINGLE ARM GATEWAY SIGN. CENTER OF THE FOOTING OF THE GATEWAY SIGN SHALL BE 10' FROM THE BACK OF CURB. SEE SHEET C2.3 FOR FOUNDATION DETAIL, SHEET C2.5 FOR SCHEMATIC DETAIL AND MANUFACTURER FOR INSTALLATION INSTRUCTIONS. - NOT USED.
- (H)** LANDSCAPED AREA. - NOT USED.
- (I)** ANY LANE ANY TIME SIGN. ATTACH SIGN TO GATEWAY 6' FROM BOTTOM OF POST. SEE SHEET C2.5 FOR SCHEMATIC DETAIL AND MANUFACTURER FOR INSTALLATION INSTRUCTIONS. - NOT USED.
- (J)** PRIMARY PRE-BROWSE BOARD. PRE-BROWSE BOARD MUST BE 10'-24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY CANOPY AND PRE-BROWSE BOARD IS TO BE AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE COD FOUNDATION. SEE SHEET C2.3 FOR FOUNDATION DETAIL, C2.5 FOR SCHEMATIC DETAIL, AND MANUFACTURER FOR INSTALLATION INSTRUCTIONS. - NOT USED.
- (K)** SECONDARY PRE-BROWSE BOARD. PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY CANOPY AND PRE-BROWSE BOARD IS TO BE 12" AS MEASURED ALONG THE FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE CANOPY FOUNDATION. - NOT USED.
- (L)** INSTALL DETECTOR LOOPS AT CASH AND PRESENT WINDOWS.
- (M)** EXISTING BOLLARD AT THE CORNER OF THE BUILDING ON THE DRIVE THRU SIDE.
- (N)** INSTALL PULL FORWARD SIGN & BOLLARD. SEE DETAIL C2.5/2.

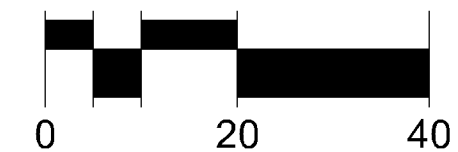
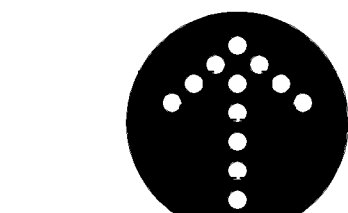
GENERAL NOTES

1. SIGNAGE & DRIVE-THRU ELEMENTS:
CND, DRIVE-THRU PYLON/CLEARANCE POLE, BOLLARD SIGN, AND FREESTANDING MERCHANDISER SHALL BE CONSISTENT WITH THE 2013 STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS. OTHER DESIGNS MAY NOT BE USED.
2. GENERAL CONTRACTOR SHALL COORDINATE WITH CIVIL PLANS, McDONALD'S PROJECT MANAGER, AND SIGNAGE SUPPLIER, TO DETERMINE THE EXACT LOCATION, ORIENTATION, HEIGHT, AND NUMBER OF SIGNS AND OTHER DRIVE-THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
3. CONTACT McDONALD'S PROJECT MANAGER FOR SIGNAGE & DRIVE-THRU ELEMENT FOOTING AND WIRING REQUIREMENTS. SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
4. SEE SHEET C2.5 AND ELECTRICAL SHEETS FOR DRIVE-THRU WIRING INFORMATION.
5. GENERAL CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR AND THE SIGN SUPPLIER.
6. GENERAL CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
7. GENERAL CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

DRIVE-THRU LAYOUT NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE ON PLAN.
2. FIELD VERIFY AND CONFIRM EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY McDONALD'S PROJECT MANAGER OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION.
3. SEE SHEET C2.1 FOR ALL OTHER CONSTRUCTION SITE DIMENSIONS.
4. SEE SHEET C2.6 FOR STRIPING.

LEGEND



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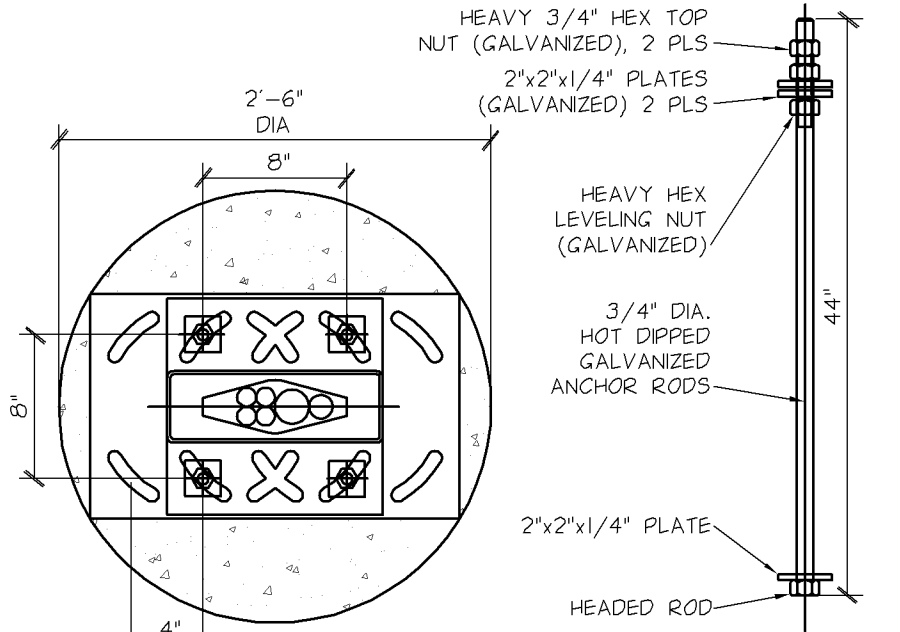
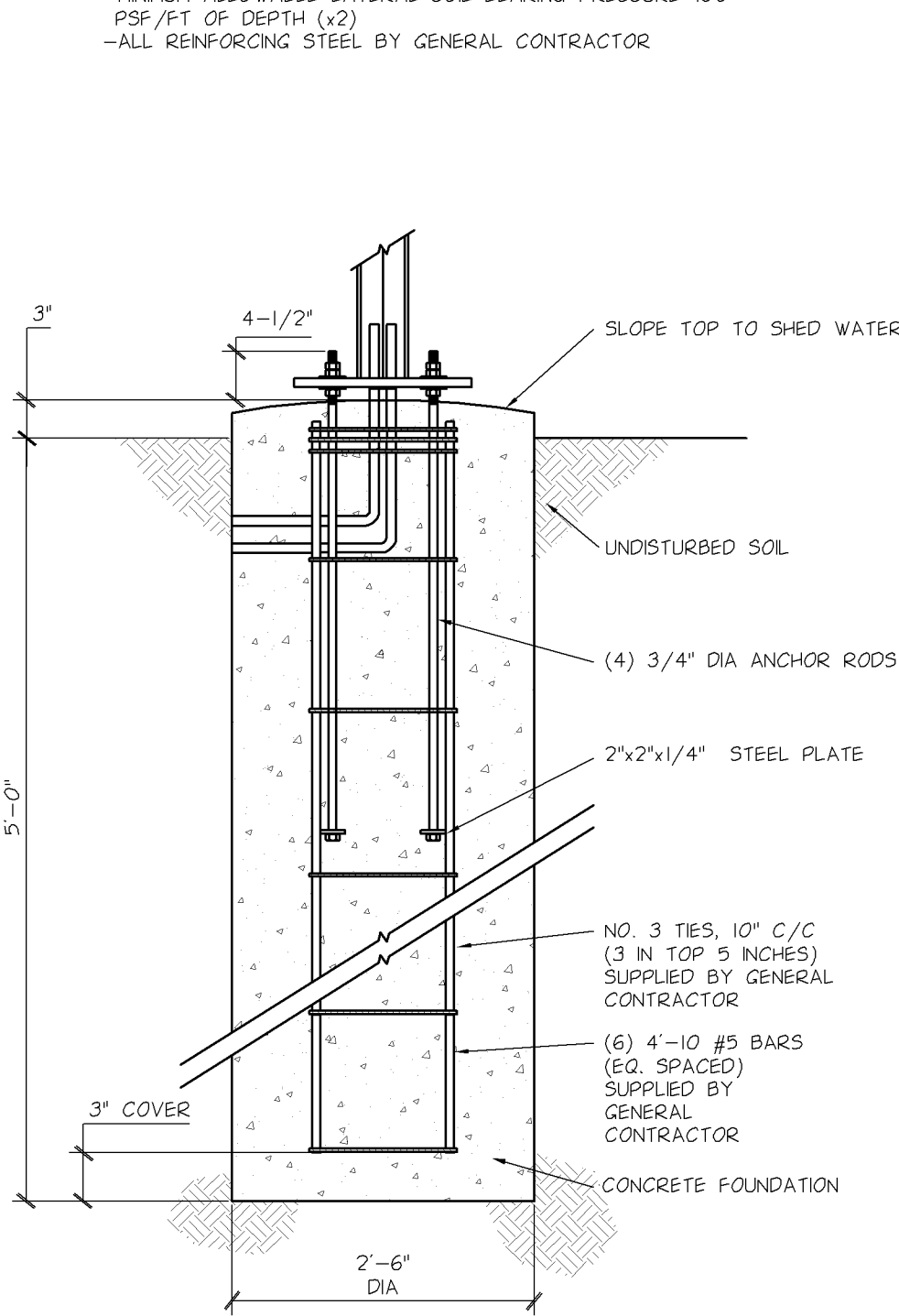
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C2.2		FILE NAME: C202MCD208.DWG	
PROJECT NO: MCD12201			
BLOOMINGTON	STREET ADDRESS	MN	COUNTY
7997 SOUTHTOWN CENTER		HENNEPIN	
SHEET NAME		CNC	REVIEWED BY
DRIVE-THRU LAYOUT		07-10-17	DATE REVIEWED
NATIONAL NUMBER	STATE NUMBER	DATE ISSUED	10-14-17
18751	022-0816		
<p>McDONALD'S USA, LLC.</p> <p>THESE DRAWINGS ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE COPIED OR REPRODUCED WITHOUT AUTHORIZATION. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT BEFORE ANY REPRODUCTION OR ADJUSTMENT OF THESE DRAWINGS FOR USE ON A DIFFERENT SITE OR AT A LATER TIME. FOR THESE DRAWINGS FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT, THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THE CONTRACT DOCUMENTS FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED.</p>		<p>CERTIFICATION</p> <p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.</p> <p><i>[Signature]</i> Christopher N. Gall</p> <p>License Number: 46224</p> <p>Exp: 10/11/2017</p>	
OFFICE ADDRESS		6550 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-9888 (952)---884-4355	

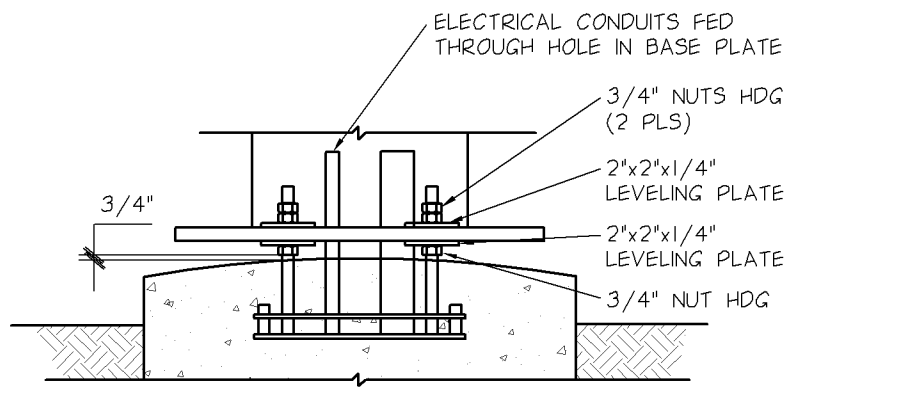
FOUNDATION NOTES:
-PIER DEPTHS REQUIRED ARE MINIMUM. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE 100 PSF/FT OF DEPTH (x2)
-ALL REINFORCING STEEL BY GENERAL CONTRACTOR

NOTES:
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER



ANCHOR BOLT PATTERN - NTS

NOTES:
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE



CONNECTION DETAILS - NTS

ODMB AND PRE-BROWSE FOUNDATION - 90 MPH

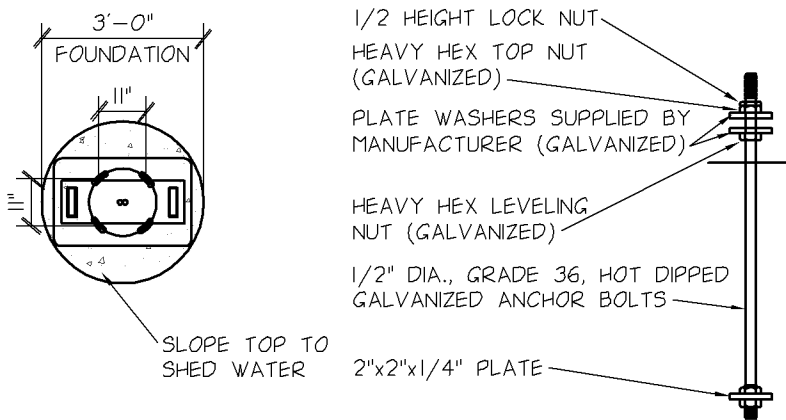
NO SCALE

GENERAL NOTES

-THE FOLLOWING CODES WERE USED IN DESIGN:
-IBC 2009
-ASCE 7-05
-AISC 318-08
-AISC 13th EDITION
-AWSDI
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL - 325#
-SHEAR - 104#
-MOMENT - 407#
-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
-MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 100PSF/FT (x2).
-SITE SOIL CONDITIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF ASSUMED SOIL CONDITIONS ARE NOT PRESENT, FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER TAKING INTO ACCOUNT ACTUAL SITE SOIL CONDITIONS.
-TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE).
-ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
CONCRETE:
-ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FULL COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
-ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-MINIMUM CONCRETE STRENGTH (F'_c=3000 PSI) SHALL CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6.
-AIR ENTRAINMENT SHALL CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 2.6-A & 2.13-A.
-WATER CONTENT RATIO SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-FOUNDATION CONCRETE TO BE TESTED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14.
-PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.
-REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5, PERFORMED BY GENERAL CONTRACTOR.
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
-DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 3.11-E.
STEEL:
-STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (F_y=35kN)
-HSS ROUND SECTION: ASTM A500 GRADE B (F_y=42kN)
-HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y=46kN)
-HEADED ANCHOR RODS ASTM F193A OR 95, AN ACCEPTABLE ALTERNATIVE IS ASTM F193A OR 95, 3/4" WHEN THE EMBEDDED END OF THE ROD IS THERMALLY AND THE NUT FACE WELDED PRIOR TO GALVANIZATION.
-STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
-REINFORCEMENT: ASTM A615 GRADE 60 - BY GENERAL CONTRACTOR
-NUTS: ASTM A308, HEAVY HEX
-WASHERS: ASTM F444 A36
-USE HOT DIPPED GALVANIZED BOLTS AND FASTENERS
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
-NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL.
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.
-AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
-ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D11.
-REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
-CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
-DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS.
-ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER.

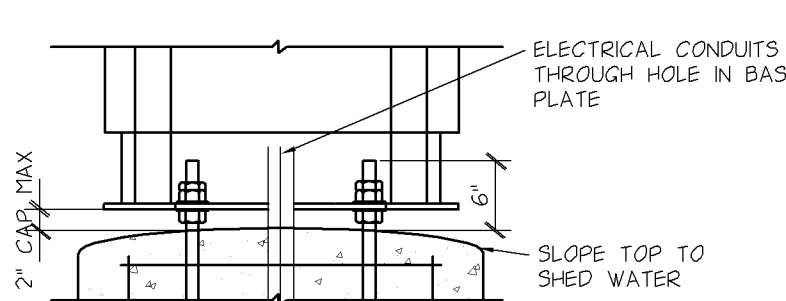
GENERAL NOTES

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-ASCE 7-05
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-AISC 13th EDITION
-AWSDI
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL - 2600 LBS
-SHEAR - 2400 LBS
-MOMENT - 14,500 LB-FT
-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
-MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 100PSF/FT (x2).
-SITE SOIL CONDITIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF ASSUMED SOIL CONDITIONS ARE NOT PRESENT, FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER TAKING INTO ACCOUNT ACTUAL SITE SOIL CONDITIONS.
-TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE).
-ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
CONCRETE:
-ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FULL COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
-ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-MINIMUM CONCRETE STRENGTH (F'_c) SHOULD CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.6.
-AIR ENTRAINMENT SHALL CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 2.6-A & 2.13-A.
-WATER CONTENT RATIO SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-FOUNDATION CONCRETE TO BE TESTED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14.
-PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.
-REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5, PERFORMED BY GENERAL CONTRACTOR.
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
-DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.
STEEL:
-STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (F_y = 35kN)
-HSS ROUND SECTION: ASTM A500 GRADE B (F_y = 42kN)
-HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y = 46kN)
-CONNECTION BOLTS A325
-STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
-REINFORCEMENT: GRADE 60 - BY GENERAL CONTRACTOR
-NUTS: A563H4 OR A194-2H
-WASHERS: A36
-USE HOT DIPPED GALVANIZED BOLTS AND FASTENERS
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
-NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL.
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.
-AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
-ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D11.
-REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
-CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
-FOUNDATIONS ARE DESIGNED FOR SINGLE OR DOUBLE POLE COLUMNS.
-DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS.
-ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER.



ANCHOR BOLT PATTERN - NTS

NOTES:
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.

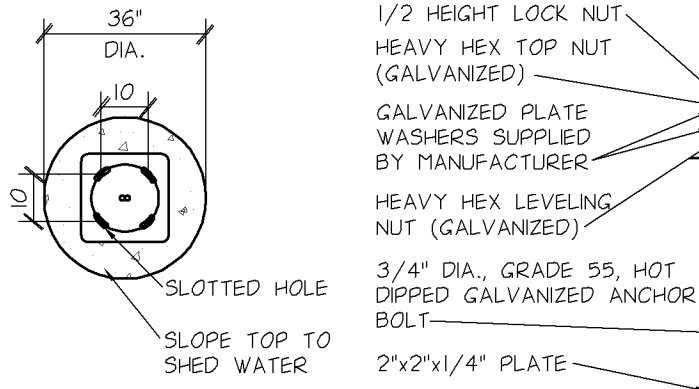


CONNECTION DETAILS - NTS

ORDER HERE CANOPY - 100 MPH

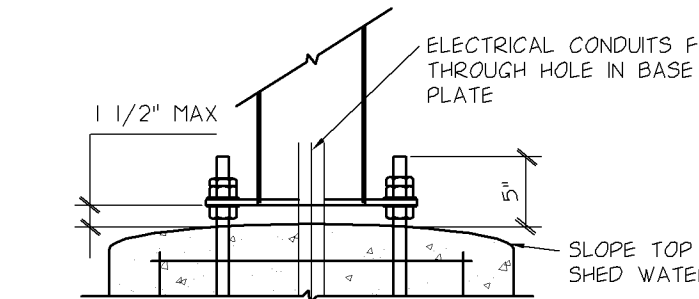
NO SCALE

NOTES:
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-HOT DIPPED GALVANIZED BOLTS
-F1554 GRADE 36 ANCHOR BOLTS
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE



ANCHOR BOLT PATTERN - NTS

NOTES:
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE



CONNECTION DETAILS - NTS

DOUBLE GATEWAY FOUNDATION - 100 MPH

NO SCALE

GENERAL NOTES

-THE FOLLOWING CODES WERE USED IN DESIGN:
-IBC 2009
-ASCE 7-05
-AISC 318-08
-AISC 13th EDITION
-AWSDI
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL - 2600 LBS
-SHEAR - 2400 LBS
-MOMENT - 14,500 LB-FT
-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
-MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 100PSF/FT (x2).
-SITE SOIL CONDITIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF ASSUMED SOIL CONDITIONS ARE NOT PRESENT, FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER TAKING INTO ACCOUNT ACTUAL SITE SOIL CONDITIONS.
-TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE).
-ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
CONCRETE:
-ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FULL COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
-ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-MINIMUM CONCRETE STRENGTH (F'_c) SHOULD CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.6.
-AIR ENTRAINMENT SHALL CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 2.6-A & 2.13-A.
-WATER CONTENT RATIO SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
-FOUNDATION CONCRETE TO BE TESTED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14.
-PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.
-REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5, PERFORMED BY GENERAL CONTRACTOR.
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
-DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.
STEEL:
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-STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
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-NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL.
-DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.
-AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
-ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D11.
-REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
-CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
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-ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER.

McDONALD'S USA, LLC.

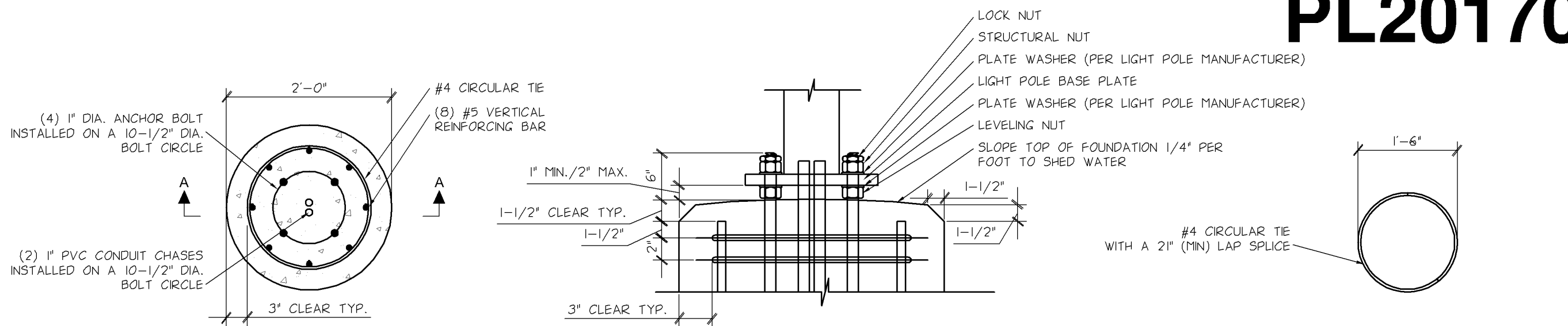
THESE DRAWINGS AND SPECIFICATIONS ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF MCDONALD'S. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MCDONALD'S. THESE DRAWINGS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF MCDONALD'S. ANY REPRODUCTION OF THESE DRAWINGS FOR ANY OTHER PROJECT IS STRICTLY PROHIBITED.

STATE	CITY	STREET ADDRESS	SHEET NAME	NATIONAL NUMBER	STATE NUMBER	DATE ISSUED	DATE REVIEWED	REVIEWED BY	PROTO ISSUED	DRAWN BY
MN	BLOOMINGTON	7997 SOUTHTOWN CENTER	DRIVE-THRU DETAILS	19761	022-0916	07-10-17	07-10-17	CNC	10P	10P

C2.3

FILE NAME: C203MCD208.DWG
PROJECT NO: MCD12208

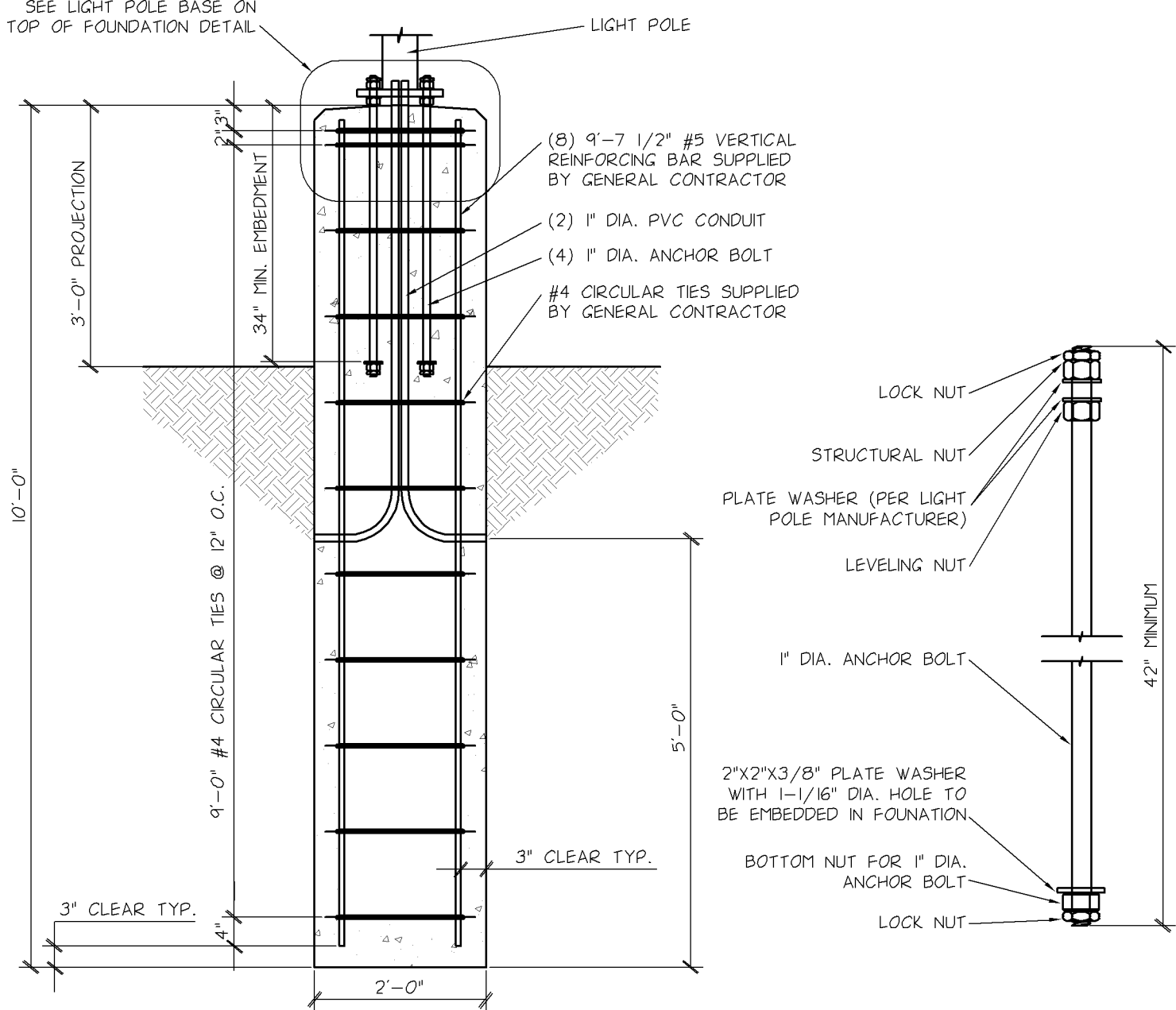
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POLE BASE - PLAN VIEW - NTS

POLE BASE AT FOUNDATION - NTS

CIRCULAR TIE DETAIL - NTS



VIEW AA - NTS

ANCHOR BOLT - NTS

TYPICAL LIGHT POLE FOUNDATION DETAILS

NO SCALE

DESIGN CRITERIA:

AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009

FOUNDATION DESIGN PARAMETERS:

- MAXIMUM LIGHT POLE BASE REACTIONS: BASE MOMENT = 16,645 lbs-ft. BASE SHEAR = 978 lbs
- MAXIMUM WIND SPEED (3 SECOND GUST) = 120MPH
- MINIMUM REQUIRED SOIL PARAMETERS: COHESIVE SOILS:
 - SHEAR STRENGTH = 750 lb/ft²
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL COHESIONLESS SOILS.
 - ANGLE OF INTERNAL FRICTION = 27 DEGREES
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
- THE SOILS REPORT SHALL BE REVIEWED BY THE ENGINEER OF RECORD TO CONFIRM THAT THE MINIMUM SOIL PARAMETERS ARE MET OR EXCEEDED BEFORE THIS DESIGN IS USED. IF THE MINIMUM SOIL PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
- THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND SPEED FOR THE LIGHT POLE TO BE INSTALLED TO DETERMINE IF THE FOUNDATION'S MAXIMUM DESIGN LOADS HAVE NOT BEEN EXCEEDED. THIS FOUNDATION DESIGN SHALL NOT BE USED IF THE MAXIMUM DESIGN LOADS OR WIND SPEED HAVE BEEN EXCEEDED.
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
- THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:

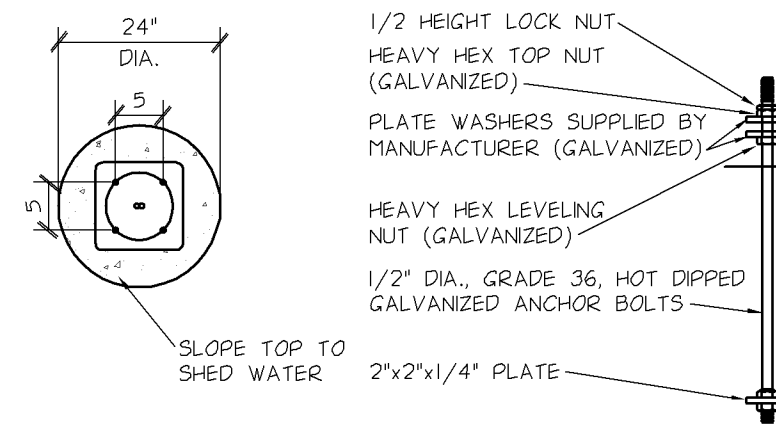
- CONCRETE COMPRESSIVE STRENGTH (f_c) SHALL BE A MINIMUM OF 3000psi
- ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55, HOT DIP GALVANIZED PER ASTM F2329
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, SUPPLIED BY GENERAL CONTRACTOR
- NUTS SHALL BE HEAVY HEX ASTM A363 GRADE 50, HOT DIP GALVANIZED PER ASTM A193
- PLATE SHALL BE ASTM A572 GRADE 50, HOT DIP GALVANIZED PER ASTM A193
- LOCK NUT SHALL BE HOT DIP GALVANIZED PER ASTM A193

NOTE:

- DESIGN CODES
 - IBC 2009
 - ASCE 7-05
 - ACI 318-08
 - ASCE 13th EDITION
 - AWSDI
- WIND SPEED (100 MPH 3-SEC GUST)
 - EXPOSURE C
 - DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
 - AXIAL - 180#
 - SHEAR - 270#
 - MOMENT - 1010#
- USE CONCRETE WITH A 3000PSI MINIMUM COMPRESSIVE STRENGTH (f_c).
- PIER DEPTHS REQUIRED ARE MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE 100 PSF/FT OF DEPTH (V2).
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE).
- PROVIDE A MINIMUM OF 3" CONCRETE COVER FOR ALL EMBEDDED STEEL.
- ALL REINFORCING STEEL BY GENERAL CONTRACTOR.

NOTES:

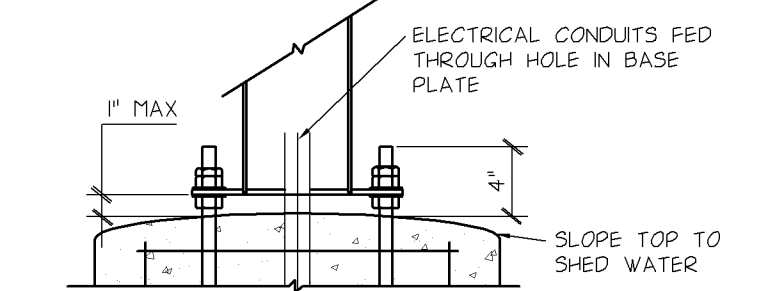
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- USE F1554 GRADE 36 BOLTS MINIMUM.
- USE HOT DIPPED GALVANIZED BOLTS.
- ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.



ANCHOR BOLT PATTERN - NTS

NOTES:

- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.
- INSTALL DIRECTIONAL SIGN FOOTING 3' FROM THE BACK OF CURB TO THE CENTER OF FOOTING UNLESS NOTED OTHERWISE ON PLAN.



CONNECTION DETAILS - NTS

TYPICAL DIRECTIONAL SIGN WITH ARCH FOUNDATION & CONNECTION DETAILS - 100 MPH RATING

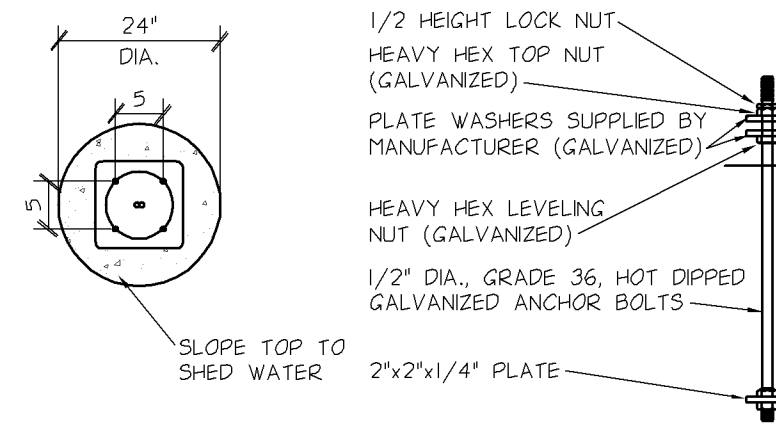
NO SCALE

NOTE:

- DESIGN CODES
 - IBC 2009
 - ASCE 7-05
 - ACI 318-08
 - ASCE 13th EDITION
 - AWSDI
- WIND SPEED (100 MPH 3-SEC GUST)
 - EXPOSURE C
 - DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
 - AXIAL - 180#
 - SHEAR - 270#
 - MOMENT - 600#
- USE CONCRETE WITH A 3000PSI MINIMUM COMPRESSIVE STRENGTH (f_c).
- PIER DEPTHS REQUIRED ARE MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
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- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE 100 PSF/FT OF DEPTH (V2).
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- PROVIDE A MINIMUM OF 3" CONCRETE COVER FOR ALL EMBEDDED STEEL.
- ALL REINFORCING STEEL BY GENERAL CONTRACTOR.

NOTES:

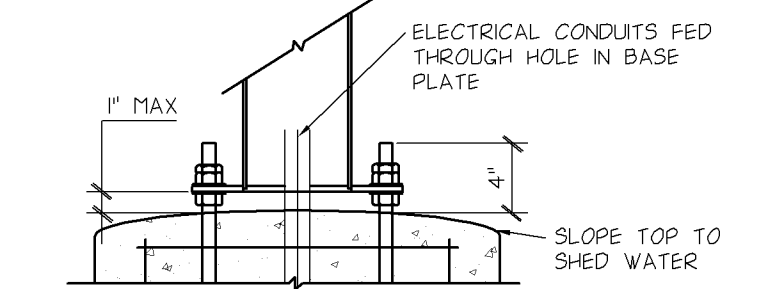
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- USE HOT DIPPED GALVANIZED BOLTS.
- ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.
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ANCHOR BOLT PATTERN - NTS

NOTES:

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CONNECTION DETAILS - NTS

TYPICAL DIRECTIONAL SIGN WITHOUT ARCH FOUNDATION & CONNECTION DETAILS - 100 MPH RATING

NO SCALE

GENERAL NOTES

- THE FOLLOWING CODES WERE USED IN DESIGN
 - IBC 2009
 - ASCE 7-05
 - ACI 318-08
 - ASCE 13th EDITION
 - AWSDI
- WIND SPEED (100 MPH 3-SEC GUST)
 - EXPOSURE C
 - DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
 - AXIAL - 180#
 - SHEAR - 270#
 - MOMENT - 1010#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
- MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 100PSF/FT (V2)
- SITE SOIL CONDITIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF ASSUMED SOIL CONDITIONS ARE NOT PRESENT, FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER TAKING INTO ACCOUNT ACTUAL SITE SOIL CONDITIONS.
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE).
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- CONCRETE:
 - ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 1557-10 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
 - ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
 - TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
 - MINIMUM CONCRETE STRENGTH (f_c) SHOULD CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
 - USE OF ADmixTURES SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6.
 - AR ENTRAINMENT SHALL CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 2.6-A & 2.13-A.
 - WATER CONTENT RATIO SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A.
 - FOUNDATION CONCRETE TO BE TESTED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.4.
 - PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.
 - REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5.
 - REINFORCED BY GENERAL CONTRACTOR.
 - ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE
 - DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.
- STEEL:
 - STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (F_y = 39ksi)
 - HSS ROUND SECTION: ASTM A500 GRADE B (F_y = 42ksi)
 - HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y = 42ksi)
 - CONNECTION BOLTS A325
 - STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
 - REINFORCEMENT: GRADE 60 - BY GENERAL CONTRACTOR
 - NUTS: A308 OR A308-2H
 - WASHERS: ASTM F-436
 - USE HOT DIPPED GALVANIZED BOLTS AND FASTENERS.
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 - ASCE 7-05
 - ACI 318-08
 - ASCE 13th EDITION
 - AWSDI
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 - REINFORCEMENT: GRADE 60 - BY GENERAL CONTRACTOR
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 - DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE.
 - AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN EMBLEM PAINT TO INHIBIT CORROSION.
 - ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PRESERVED IN ACCORDANCE WITH AWS D1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
- DETAILS AND STRUCTURAL TOLERANCES NOT SHOWN DESIGNED BY OTHERS.
- ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER.

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TOP

PHOTO ISSUED

REVIEWED BY

CNC

DATE REVIEWED

07-10-17

DATE ISSUED

10-11-17

STATE

MN

COUNTY

HENNEPIN

STREET ADDRESS

7997 SOUTHTOWN CENTER

SHEET NAME

DRIVE-THRU DETAILS

NATIONAL NUMBER

19761

STATE NUMBER

022-0916

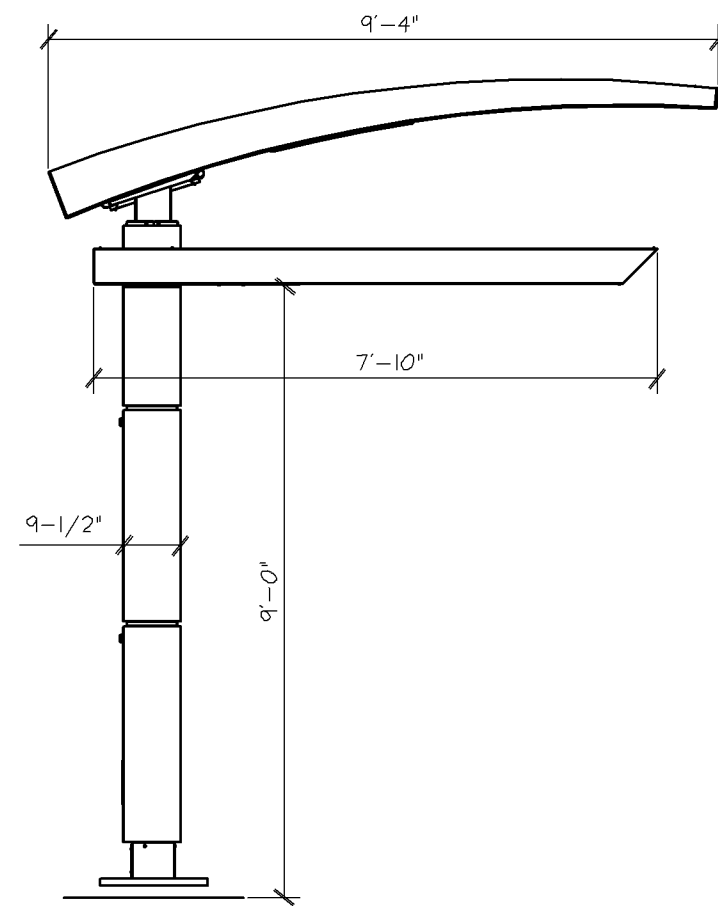
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C2.4

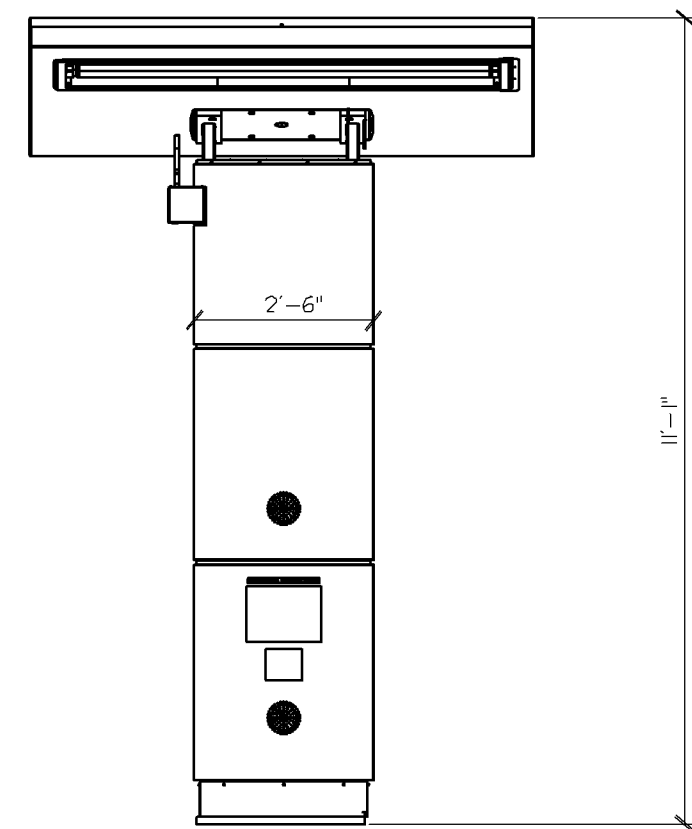
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PROJECT NO. MCD12208

PL201700224



DETAIL ELEVATION - NTS

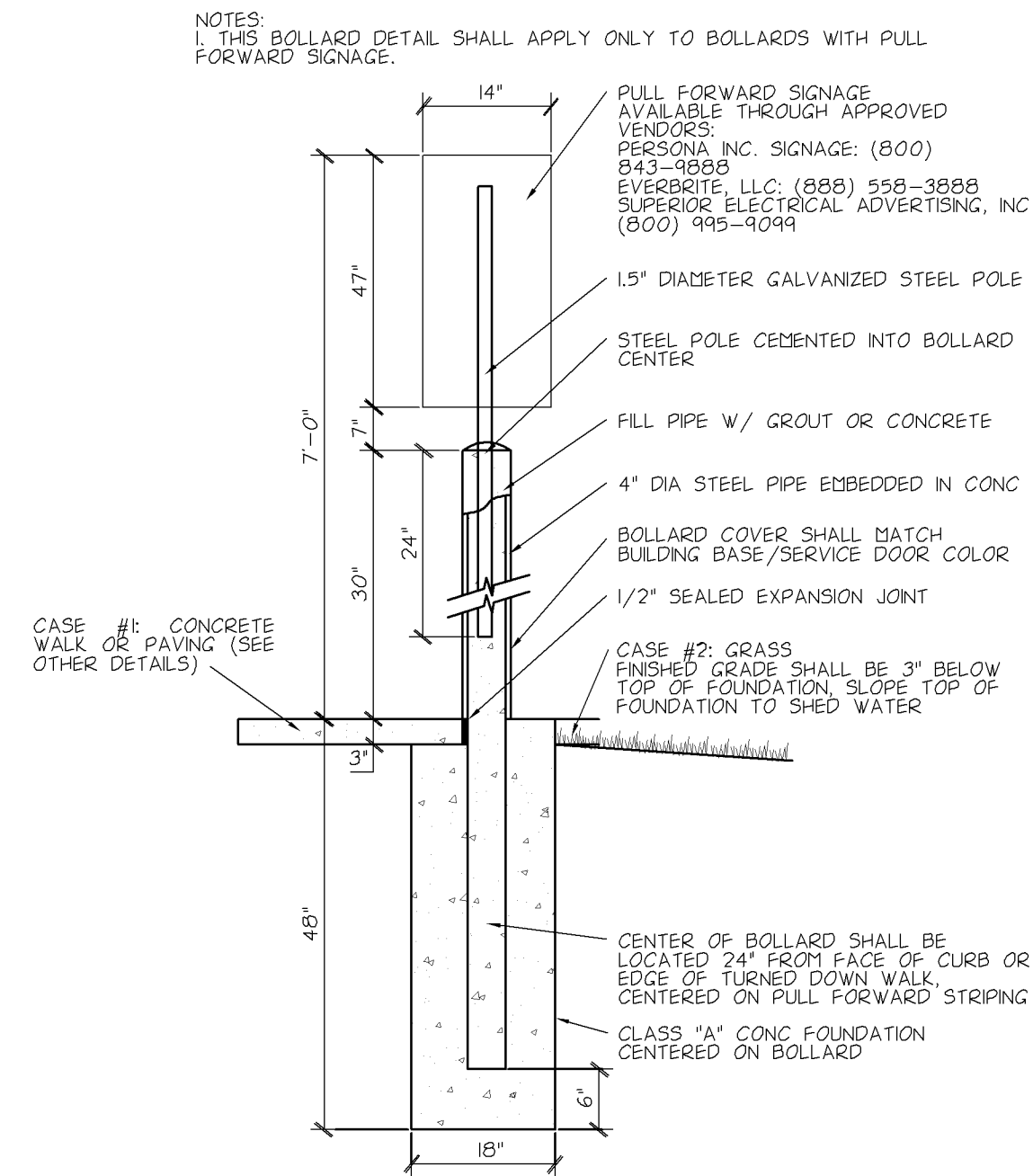


DETAIL PLAN - NTS

NOTE: THIS DRAWING IS SHOWN FOR SCHEMATIC PURPOSES ONLY. SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS

CANOPY SCHEMATIC DETAIL

NO SCALE



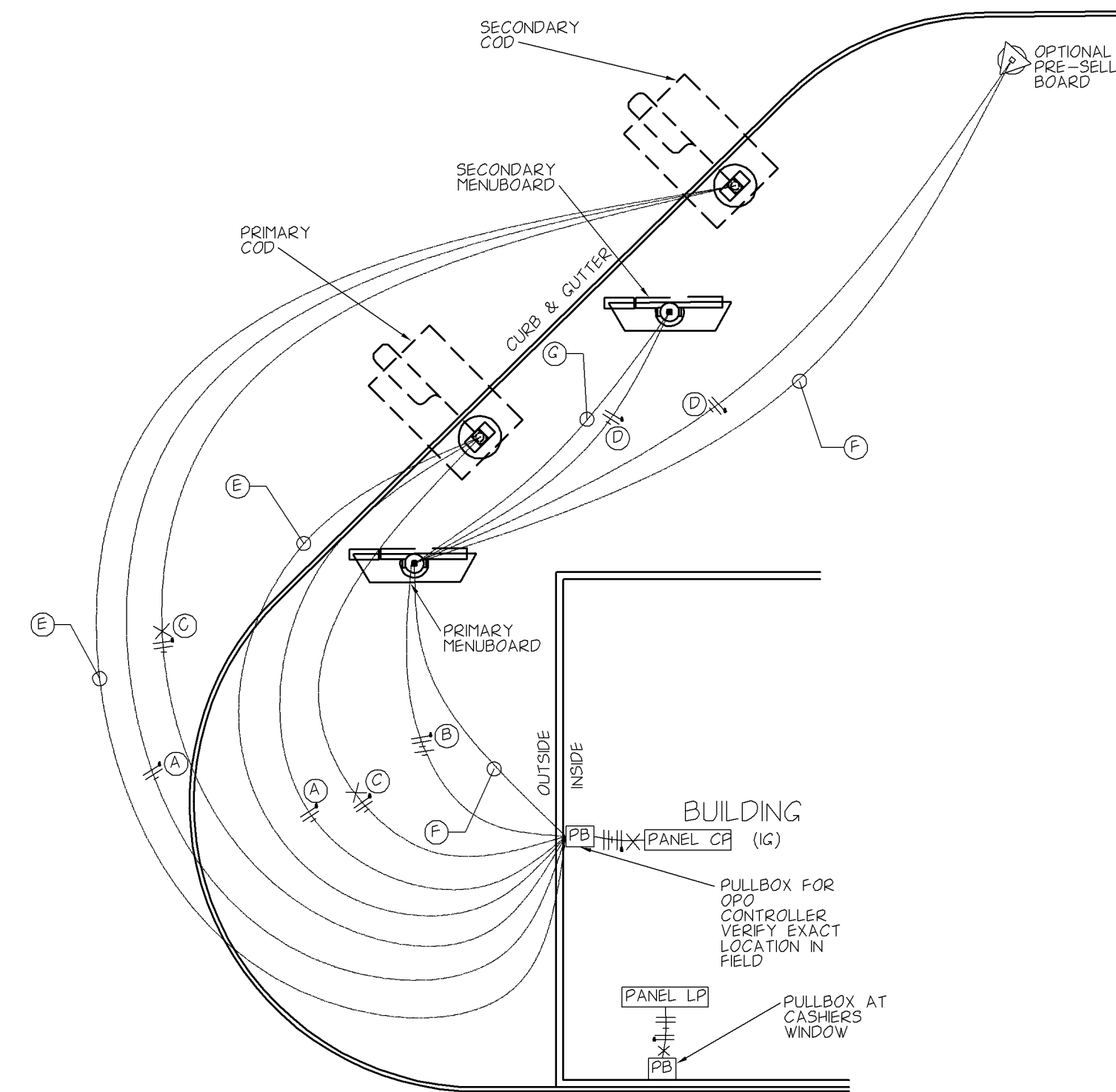
PULL FORWARD SIGN & BOLLARD DETAIL

NO SCALE

- KEY NOTES:
- (A) 2#12 & #1/2 GND., 3/4" CONDUIT TO LP-1 FOR COD CANOPY LIGHTING
 - (B) 2#12 & #1/2 GND., 3/4" CONDUIT TO LP-1 FOR PRIMARY OPO MENUBOARD LIGHTING AND PLC.
 - (C) 2#12 & #1/2 GND & #1/2 ISOLATED GND., 3/4" CONDUIT TO CP FOR ISOLATED POWER TO COD'S. EACH COD SHALL BE ON ITS OWN DEDICATED CIRCUIT.
 - (D) 2#12 & #1/2 GND 3/4" CONDUIT TO LP-1 FOR SECONDARY OPO MENUBOARD AND PRESELL BOARD LIGHTING.
 - (E) (2) 1-1/2" CONDUIT
ONE FOR COD CABELING
ONE FOR LOOP DETECTOR
 - (F) 1" CONDUIT
 - (G) 1-1/2" CONDUIT

GENERAL NOTES:

1. VERIFY EXACT CIRCUITS AND QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES ON DRAWING E4.2 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PER MANUFACTURER'S INSTALLATION INSTRUCTIONS SEPARATE DEDICATED NEUTRALS ARE REQUIRED TO MENUBOARD AND PRESELL BOARD FOR EACH CIRCUIT (PLC AND LIGHTING).



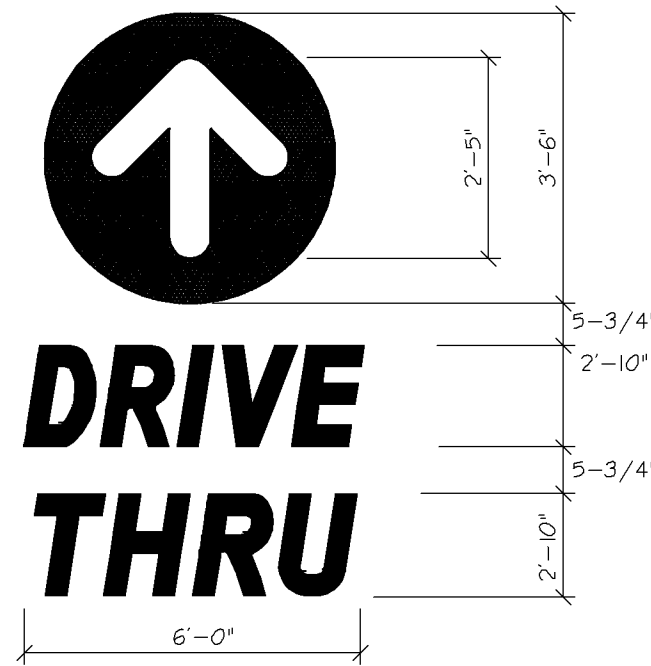
SKETCH CREATED FROM ELECTRICAL OPO UPDATE
(E-OPO) DATED SEPT, 2012

DRIVE-THRU WIRING DETAIL

NO SCALE

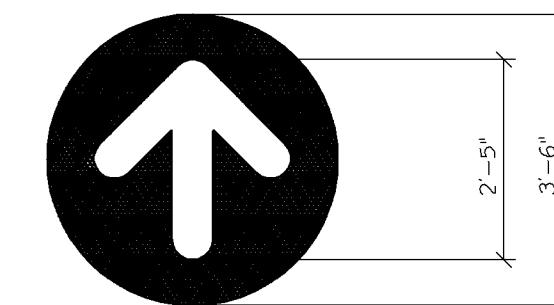
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	BLOOMINGTON	MN	12P				
	STREET ADDRESS		PROJECT ISSUED				
	7997 SOUTHTOWN CENTER		REVIEWED BY				
	SHEET NAME		CNC				
	DATE REVIEWED		DATE REVIEWED				
	07-10-17		07-10-17				
	STATE NUMBER		DATE ISSUED				
	022-0916		10-11-17				
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	18751		1650 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-9888 (952)-984-4355				

WORTH ST.

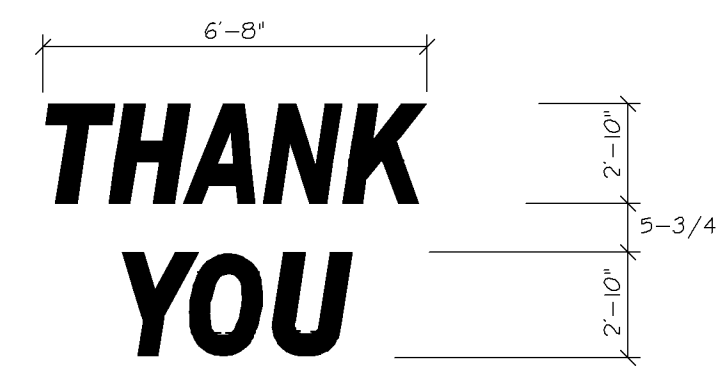


1 PAINTED 'DRIVE THRU' WITH ARROW

NO SCALE

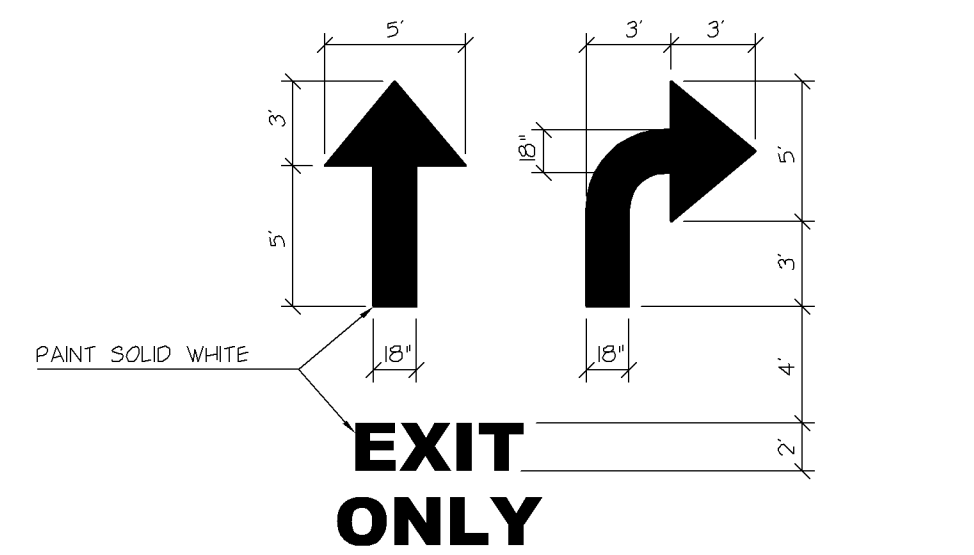


2 PAINTED ARROW NO SCALE



3 PAINTED 'THANK YOU'

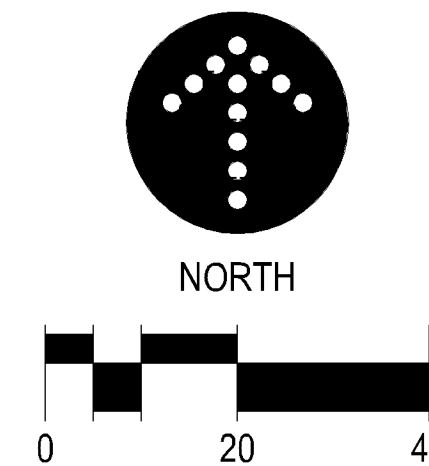
NO SCALE



4 TYPICAL PAVEMENT MARKING



5 PAINTED 'NO PARKING' NO SCALE



LAND FORM
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OFFICE ADDRESS:

[illegible]

CERTIFICATION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Christopher N. Call

License Number 46224

Date 10/11/2017

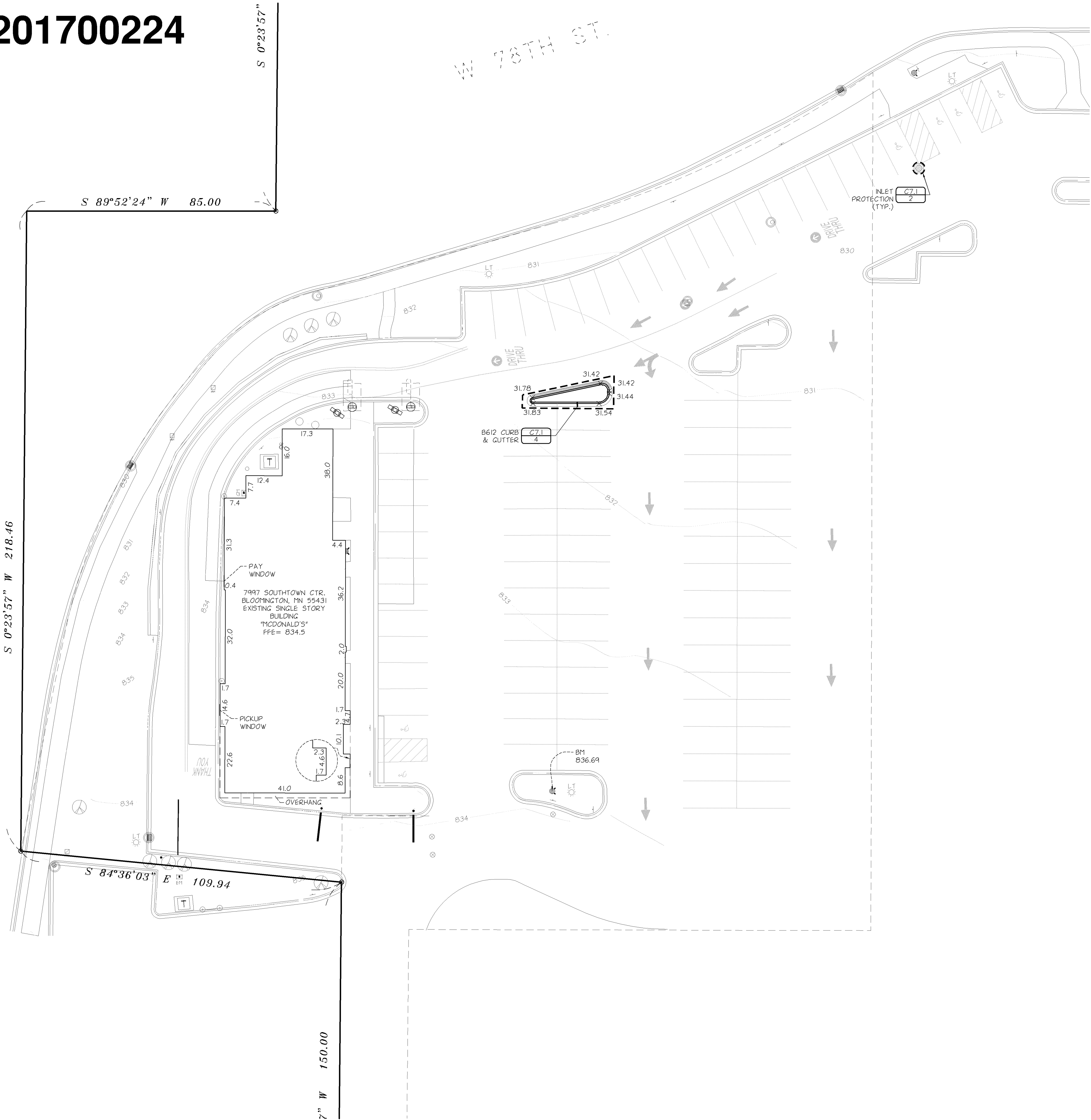
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	STRIPING		CNC
	NATIONAL NUMBER	STATE NUMBER	DATE REVIEWED
	19751	022-0316	07-10-17
			DATE ISSUED
			10-11-17

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PL201700224

PENN AVE. S

W 78TH ST.



- EROSION PREVENTION AND SEDIMENT CONTROL NOTES**
- PERIMETER SEDIMENT CONTROLS SHALL BE INSTALLED AND INSPECTED PRIOR TO BEGINNING WORK. MAINTAIN FOR DURATION OF CONSTRUCTION. REMOVE CONTROLS AFTER AREAS CONTRIBUTING RUN OFF ARE PERMANENTLY STABILIZED AND DISPOSE OF OFF SITE.
 - LIMIT SOIL DISTURBANCE TO THE GRADING LIMITS SHOWN. SCHEDULE OPERATIONS TO MINIMIZE LENGTH OF EXPOSURE OF DISTURBED AREAS.
 - MANAGEMENT PRACTICES SHOWN ARE THE MINIMUM REQUIREMENT. INSTALL AND MAINTAIN ADDITIONAL CONTROLS AS WORK PROCEEDS TO PREVENT EROSION AND CONTROL SEDIMENT CARRIED BY WIND OR WATER.
 - ALL EXPOSED SOIL AREAS MUST BE STABILIZED WITHIN 72 HOURS OF COMPLETION OF WORK IN EACH AREA.
 - SEED, SOD, MULCH AND FERTILIZER SHALL MEET THE FOLLOWING SPECIFICATIONS, AS MODIFIED:

ITEM	SPECIFICATION NUMBER
SOD	MNDOT 3878
SEED	MNDOT 3876
MN TYPE 22-III @ 30.5 LB/AC	- TEMPORARY EROSION CONTROL
MN TYPE 25-151 @ 120 LB/AC	- PERMANENT TURF
MULCH	MNDOT 3882
(MNDOT TYPE 1 @ 2 TON/AC, DISC ANCHORED)	
FERTILIZER	MNDOT 3881
GENERAL PLACEMENT	MNDOT 2575
 - ALL DISTURBED LANDSCAPE AREAS SHALL BE RESTORED WITH ROCK MULCH. COORDINATE WITH MCDONALD'S AREA CONSTRUCTION MANAGER.
 - SCRAPE ADJACENT STREETS CLEAN DAILY AND SWEEP CLEAN WEEKLY.

- GRADING NOTES**
- CONTACT UTILITY SERVICE PROVIDERS FOR FIELD LOCATION OF SERVICES 72 HOURS PRIOR TO BEGINNING GRADING.
 - REMOVE TOPSOIL FROM GRADING AREAS AND STOCKPILE SUFFICIENT QUANTITY FOR REUSE. MATERIALS MAY BE MINED FROM LANDSCAPE AREAS FOR USE ON SITE AND REPLACED WITH EXCESS ORGANIC MATERIAL WITH PRIOR OWNER APPROVAL.
 - REMOVE SURFACE AND GROUND WATER FROM EXCAVATIONS. PROVIDE INITIAL LIFTS OF STABLE FOUNDATION MATERIAL IF EXPOSED SOILS ARE WET AND UNSTABLE.
 - REFER TO STRUCTURAL SPECIFICATIONS FOR EARTHWORK REQUIREMENTS FOR BUILDING PADS.
 - AN INDEPENDENT TESTING FIRM SHALL VERIFY THE REMOVAL OF ORGANIC AND UNSUITABLE SOILS, SOIL CORRECTION, AND COMPACTION AND PROVIDE PERIODIC REPORTS TO THE OWNER.
 - PLACE AND COMPACT FILL USING LIFT THICKNESSES MATCHED TO SOIL TYPE AND COMPACTION EQUIPMENT TO OBTAIN SPECIFIED COMPACTION THROUGHOUT THE LIFT.
 - COMPACT MATERIAL IN PAVED AREAS TO 95% OF MAXIMUM DRY DENSITY. STANDARD PROCTOR (ASTM D698) EXCEPT THE TOP 3 FEET WHICH SHALL BE COMPACTED TO 100%. COMPACT TO 98% DENSITY WHERE FILL DEPTH EXCEEDS 10 FEET.
 - COORDINATE WITH ARCHITECTURAL FOR BUILDING STOOP LOCATIONS. SLOPES SHOWN ON ADJACENT WALKS AND PAVEMENT SHOULD CONTINUE OVER STOOPS.

- PAVING NOTES**
- SPOT ELEVATIONS AT CURBLINES INDICATE FLOWLINES UNLESS NOTED OTHERWISE. SEE SHEET C4.1 FOR RIM ELEVATIONS OF CATCH BASINS.
 - GRADES BETWEEN PROPOSED SPOT ELEVATIONS SHALL BE CONTINUOUS AND NONVARIABLE. SPOT ELEVATIONS SHALL GOVERN OVER CONTOUR LINES.

LEGEND

SYMBOL	DESCRIPTION	ESTIMATED QUANTITY
	INLET PROTECTION	1 EACH
	TIP OUT CURB	
	PAVED OUT SAWCUT	

MCDONALD'S USA, LLC.

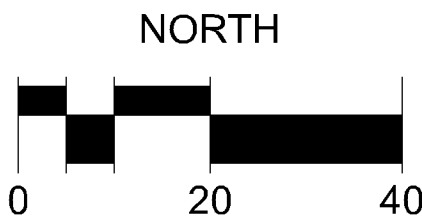
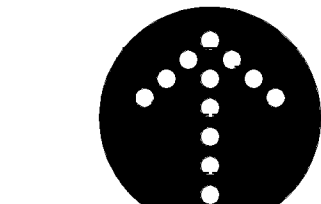
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OFFICE ADDRESS
650 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-9888 (952)-884-4355

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PROTO ISSUED	
REVIEWED BY	CNC
DATE REVIEWED	07-10-17
DATE ISSUED	10-1-17

CITY	STATE
BLOOMINGTON	MN
STREET ADDRESS	COUNTY
7997 SOUTHTOWN CENTER	HENNEPIN
SHEET NAME	
GRADING, DRAINAGE, PAVING, & EROSION CONTROL	
NATIONAL NUMBER	STATE NUMBER
19761	022-0916

SHEET NO. **C3.1**
FILE NAME: C301MCD208.DWG
PROJECT NO. MCD12208



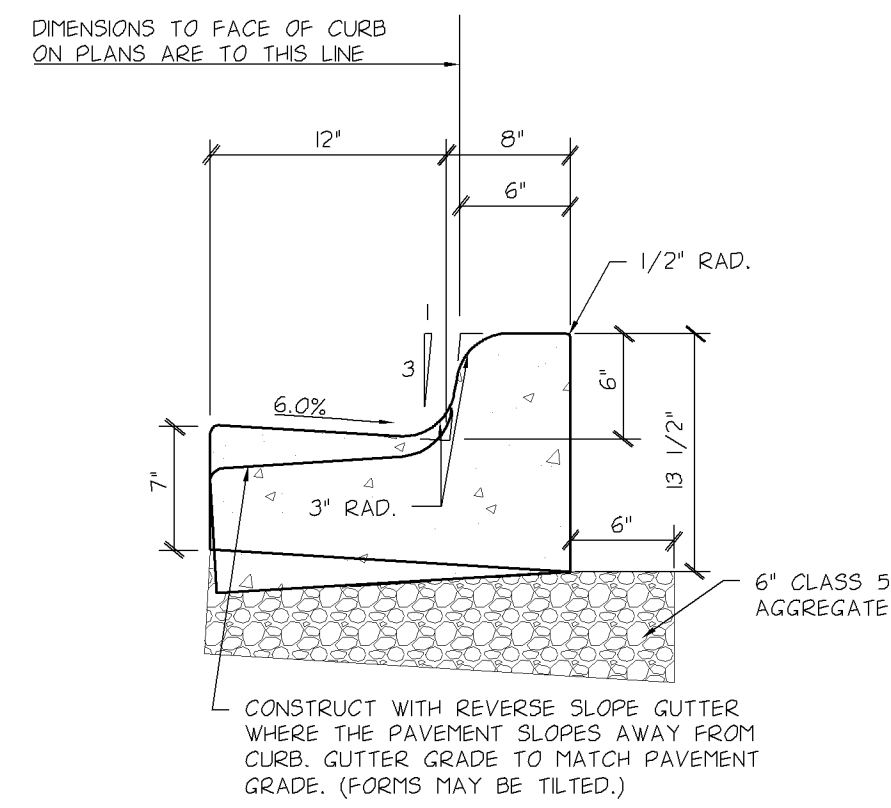
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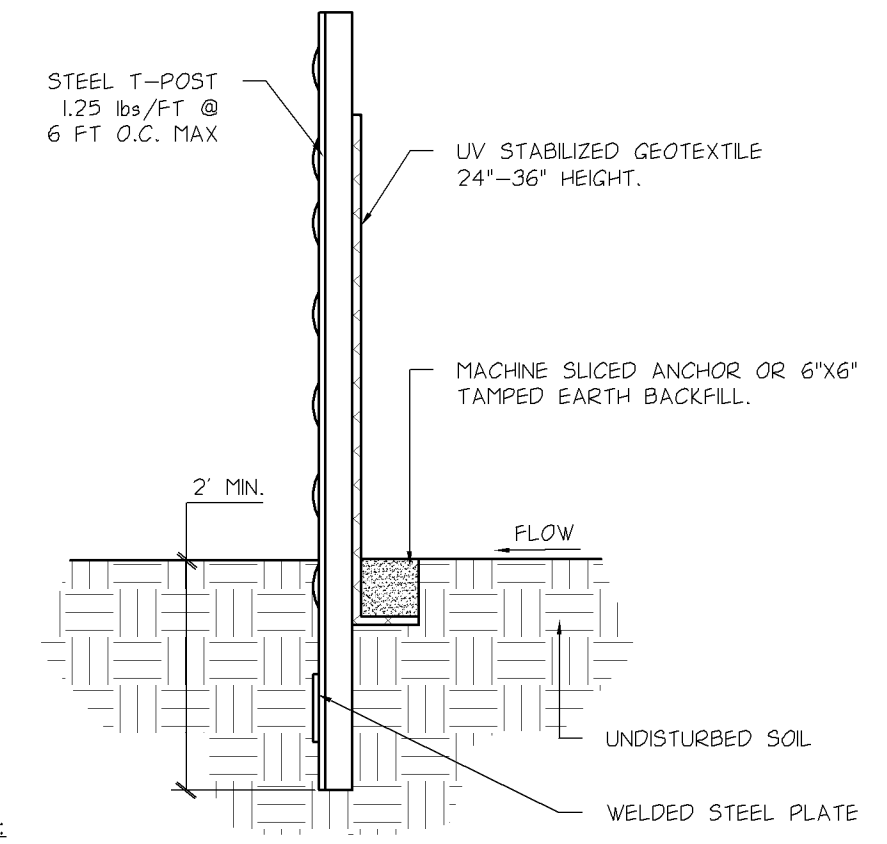
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B612 CONCRETE CURB AND GUTTER

NO SCALE

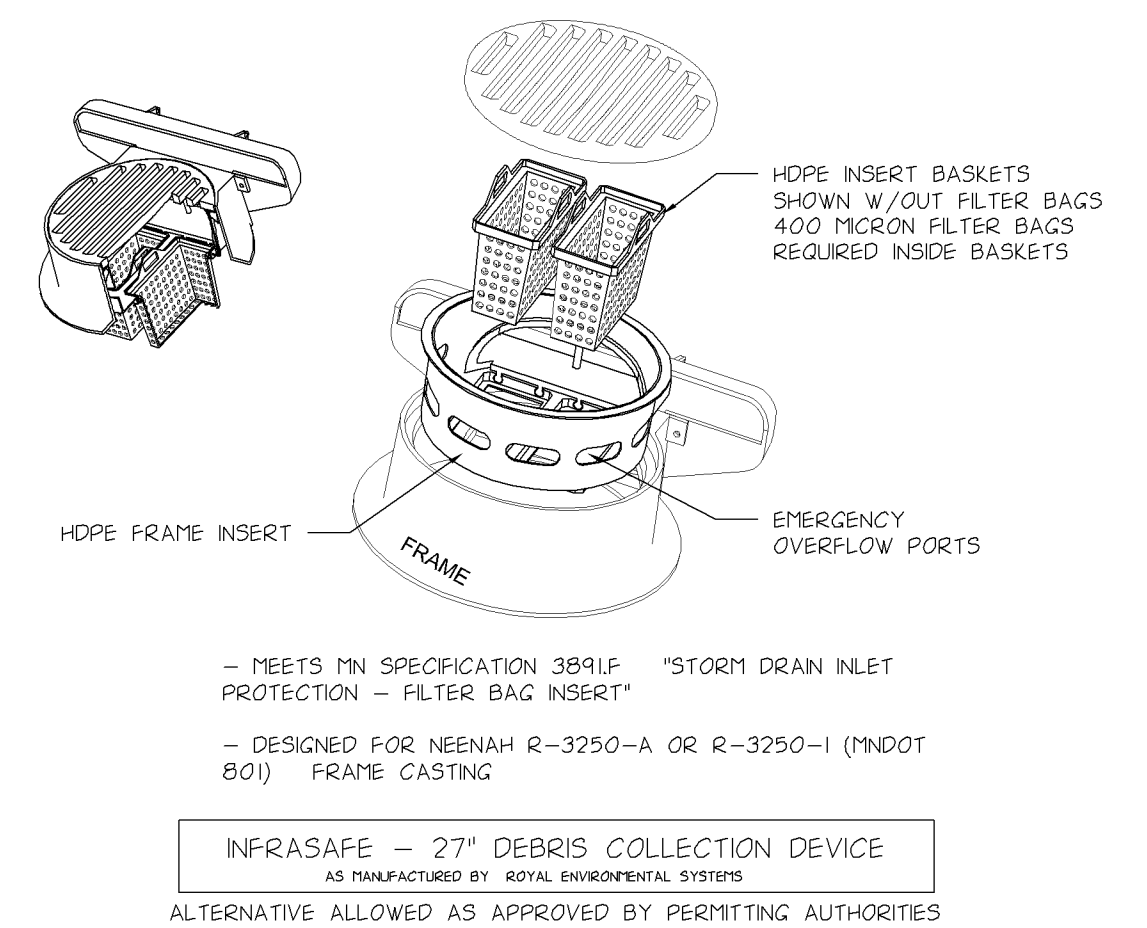


- NOTES:

1. DIG A 6" TRENCH ALONG THE INTENDED FENCE LINE OR USE MACHINE SLICED ANCHOR.
2. INSTALL ON CONTOUR AT CONSTANT ELEVATION.
3. DRIVE ALL POSTS INTO THE GROUND AT THE BACK SIDE OF THE TRENCH.
4. LAYOUT WIRE MESH AND SILT FENCE ON THE UPHILL SIDE ALONG THE FENCE LINE, AND BACK FILL.

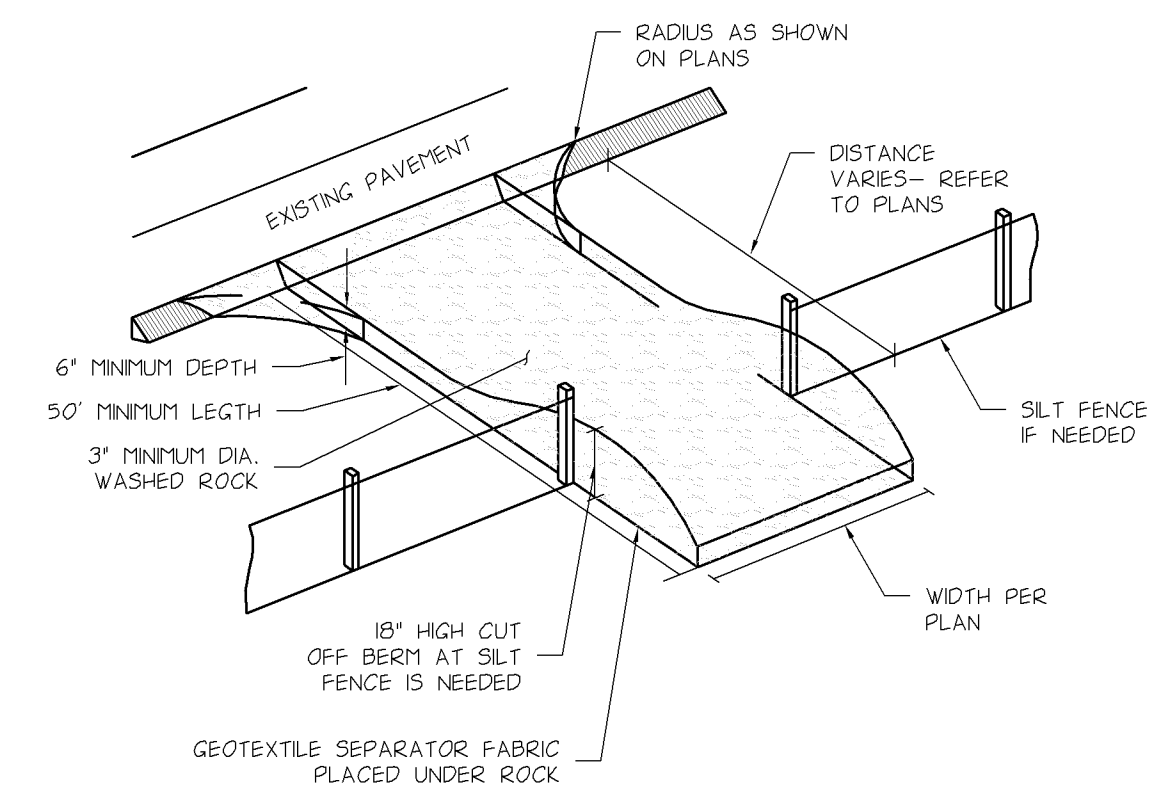
SILT FENCE

NO SCALE



INLET PROTECTION

NO SCALE



VEHICLE TRACKING PAD

NO SCALE

FILE NAME: C701MCD208.DWG		PROJECT NO: MCD122018									
C7.1		CIVIL CONSTRUCTION DETAILS									
SHEET NAME	7997 SOUTHTOWN CENTER	COUNTY	MN								
STREET ADDRESS	BLOOMINGTON	CITY	MN								
DATE REVIEWED	07-10-17	DATE ISSUED	07-10-17								
REVIEWED BY	CAC	REVIEWED BY	CAC								
DATE REVIEWED	07-10-17	DATE ISSUED	07-10-17								
NATIONAL NUMBER	18761	STATE NUMBER	022-02016								
OFFICE ADDRESS		650 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-0888 (952)-884-4355									
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<p>McDONALD'S USA, LLC.</p>											
<p>License Number 46224 Date 10/11/2017</p>											
<p>CERTIFICATION</p> <p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.</p> <p><i>Christopher N. Call</i></p>											
<p>REVISION HISTORY</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>CITY SUBMITTAL</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>07-14-17</td> <td>10-11-17</td> <td>CITY SUBMITTAL</td> <td></td> </tr> </tbody> </table>				REV	DATE	CITY SUBMITTAL	REVISION	07-14-17	10-11-17	CITY SUBMITTAL	
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07-14-17	10-11-17	CITY SUBMITTAL									