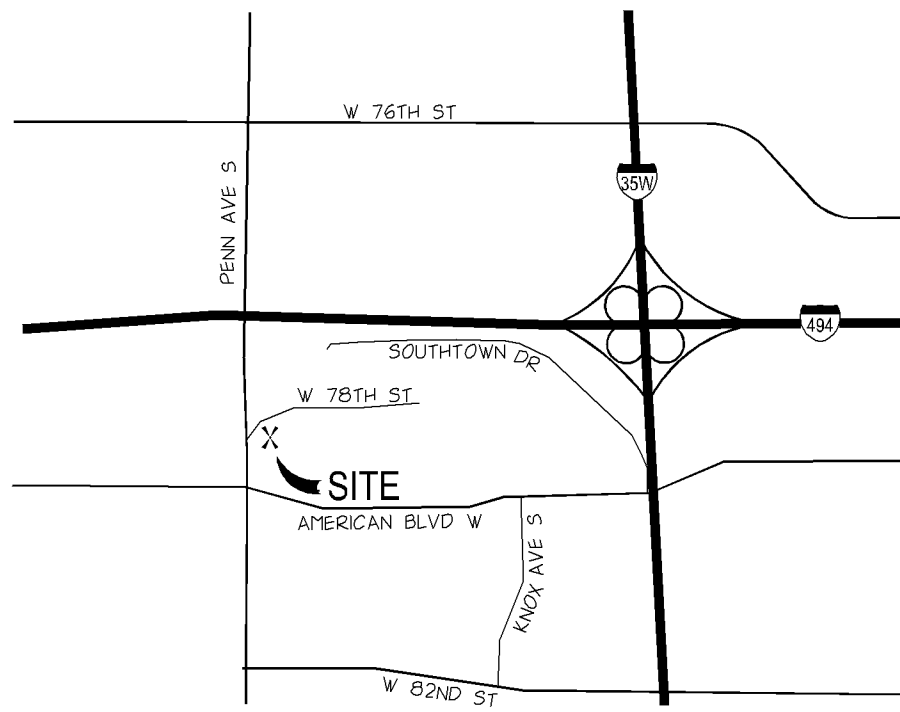
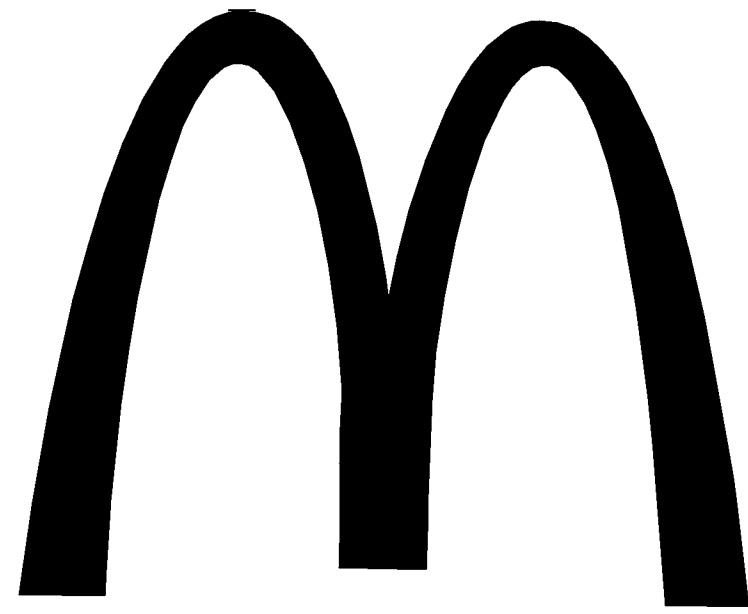


BLOOMINGTON, MN

AREA LOCATION MAP



McDONALD'S USA, LLC.



BLOOMINGTON, MN

ABBREVIATIONS

D	Angle	L.F.	Lineal Feet
&	And	L.P.	Low Point / Liquid Petroleum
100 YR.	100 Year Flood Elevation	LB.	Local Government Unit
A.B.	Anchor Bolt	LONG.	Longitudinal
A.D.	Area Drain	LI.	Light / Lighting
A/C	Air Conditioning Unit	MAINT.	Maintenance
ADD.	Addendum	MAS.	Masonry
ADDL.	Additional	MATL.	Material
ADJ.	Adjacent / Adjust	MIN.	Minimum / Minute
AHU	Air Handling Unit	MISC.	Miscellaneous
ALT.	Alternate	MNDOT	Minnesota Department Of Transportation
ALUM.	Aluminum	MOD.	Module / Modular
ANOD.	Anodized	MUL.	Mulch
APPROX.	Approximate	N.	North
ARCH.	Architect / Architectural	N.C.	Not In Contract
AUTO.	Automatic	N.I.C.	Not To Scale
AVG.	Average	NTS	Normal Water Elevation
B.C.	Back of Curb	NWL	Normal Water Level
B/W	Bottom of Wall	O.C.	On Center
BFE	Basement Floor Elevation	O.D.	Outside Dimension
BIT	Bituminous (Asphaltic)	O.E.	Overhead Electric
BLDG	Building	OH	Overhead
BSIT.	Basement	OH.WL	Ordinary High Water Level
CF	Cubic Feet	OPNG.	Opening
C.F.S.	Cubic Feet Per Second	ORIG.	Original
C.G.	Corner Guard	P.C.	Point of Curvature
C.I.	Control Joint	P.I.	Point of Intersection
CL	Centerline	P.O.B.	Point of Beginning
CHU.	Concrete Masonry Unit	P.S.F.	Pounds Per Square Foot
C.O.	Cleanout	P.S.I.	Pounds Per Square Inch
C.O.E.	U.S. Army Corps Of Engineers	P.T.	Point of Tangency
C.T.	Catch Basin	P.V.C.	Point of Vertical Curvature
CB	Catch Basin	P.V.I.	Point of Vertical Intersection
CBM	Catch Basin Manhole	P.V.T.	Polyethylene
CE	Center	PE	Pedestal / Pedestrian
CEP	Cast Iron Pipe	PERF.	Perforated
CM	Corrugated Metal Pipe	PREP.	Preparation
CONC.	Concrete (Portland)	PREP.	Project
CON.	Connection	PROP.	Proposed
CONTR.	Construction	PVC	Poly-Vinyl-Chloride (Pvc)
COP.	Copper	PVIT.	Pavement
CU	Cubic	QTY.	Quantity
D.S.	Down Spout	R	Radius
DEC.	Degree	RAD.	Radius Point
DEMO.	Demolition / Demolish	R.E.	Remove Existing
DEPT.	Department	R.O.	Rough Opening
DIA.	Diameter	R.P.	Radius Point
DIAG.	Diagonal	R.Q.P.	Reinforced Concrete Pipe
DIM.	Dimension	R.S.	Rough Slab
DIP	Ductile Iron Pipe	RSD	Rough Storm Drain
DN	Down	RE	Rin Elevation (Casting)
DWG.	Drawing	RE	Regarding
E.	East	RENF.	Reinforced
E.J.	Expansion Joint	REQD	Required
E.O.	Emergency Overflow	REV.	Revision / Revised
E.O.S.	Emergency Overflow Syle	RGU	Regulatory Government Unit
E.W.	Each Way	ROW	Right of Way
EA	Each	S.	South
EL.	Elevation	S.F.	Square Feet
ELEV.	Electrical	SAN.	Sanitary Sewer
EMER.	Emergency	SECT.	Section
ENGR.	Engineer	SE	Side Exit
ENTR.	Entrance	SEWO	Side Exit Walk Out
EQ.	Equal	SHI.	Sheet
EQUIV.	Equivalent	SLNT.	Slant
EXIST.	Existing	SPEC.	Specification
EXP.	Expansion	SSD	Subsurface drain
F & I	Furnish and Install	STRA	Standard
F.B.O.	Furnished by Others	STD.	Structural
F.C.	Face of Curb	SYN.	Symmetrical
F.D.	Floor Drain	T	Thickness
F.D.C.	Fire Department Connection	T/R	Top of Rim
F.V.	Field Verify	T/W	Top of Wall
FB	Full Basement	TEMP.	Temporary
FBWO	Full Basement Walk Out	THK.	Thick / Thickness
FBLO	Full Basement Look Out	T.J.	Toilet Joint
FDN.	Foundation	TNH	Top Nut Hydrant
FES	Flared End Section	TYP.	Typical
FEE	Finished Floor Elevation	UNO.	Unless Noted Otherwise
FLR	Floor	V.B.	Vapor Barrier
FT. OR (')	Foot	V.C.	Vertical Curve
FUT.	Future	V.I.F.	Verify In Field
G.B.	Grade Break	VER.	Verify
G.C.	General Contractor	VEST.	Vestibule
GAL.	Gallon	W	Width
GALV.	Galvanized	W.P.T.	Working Point
GFE	Garage Floor Elevation	W.W.F.	Welded Wire Fabric
GL	Glass	W/O	Without
GR	Grade	WO	Walk Out
H.	Height	WETL.	Wetland
H.P.	High Point	WP	Waterproof
HDP	High Density Polyethylene Pipe	WT	Weight
HGT.	Height	YD.	Yard
HORIZ.	Horizontal	YR.	Year
HVAC	Heating, Ventilation, Air Conditioning		
HYD	Hydrant		
ID.	Inside Dimension		
E or I.E.	Inside Elevation		
N. OR (")	Inside Elevation		
NFO.	Information		
INSUL.	Insulation		
INV.	Invert Elevation		
IT.	Joint		

SYMBOLS

EXISTING	DESCRIPTION	NEW	DESCRIPTION
120	MAJOR CONTOUR	120	MAJOR CONTOUR
123	MINOR CONTOUR	123	MINOR CONTOUR
x 234.5	SPOT ELEVATION	123.45	SPOT ELEVATION
[Symbol]	BUILDING	[Symbol]	BUILDING
[Symbol]	CANOPY / OVERHANG	[Symbol]	CANOPY/OVERHANG
[Symbol]	CONCRETE	[Symbol]	UNDERGROUND STRUCTURE
[Symbol]	BITUMINOUS	[Symbol]	CONCRETE
[Symbol]	LANDSCAPING	[Symbol]	CONCRETE CURB
[Symbol]	GRAVEL	[Symbol]	EDGE OF PAVEMENT
[Symbol]	PAVING BLOCK	[Symbol]	FENCING
[Symbol]	PAVING BLOCK	[Symbol]	GUARD RAIL
[Symbol]	STORM SEWER LINE	[Symbol]	CONCRETE RETAINING WALL
[Symbol]	SANITARY SEWER LINE	[Symbol]	MODULAR RETAINING WALL
[Symbol]	WATER MAIN	[Symbol]	FIELDSTONE RETAINING WALL
[Symbol]	OVERHEAD ELECTRIC	[Symbol]	EXIT LOCATION
[Symbol]	UNDERGROUND TELEPHONE	[Symbol]	LIGHT STANDARD
[Symbol]	UNDERGROUND ELECTRIC	[Symbol]	POWER POLE
[Symbol]	GAS LINE	[Symbol]	SLOPE DIRECTION
[Symbol]	CONCRETE CURB	[Symbol]	CATCH BASIN
[Symbol]	FENCING	[Symbol]	MANHOLE
[Symbol]	RETAINING WALL	[Symbol]	BOLLARD
[Symbol]	SET 1/2" X 14" IRON PIPE	[Symbol]	STORM SEWER
[Symbol]	IRON MONUMENT FOUND	[Symbol]	SANITARY SEWER-WASTE
[Symbol]	SURVEY DISK (BENCHMARK)	[Symbol]	FORCE MAIN
[Symbol]	POWERPOLE	[Symbol]	ROOF DRAIN SYSTEM
[Symbol]	GUY WIRE	[Symbol]	WATERMAIN
[Symbol]	GUARD POST	[Symbol]	FIRE LINE (IF SEPARATE)
[Symbol]	GAS METER	[Symbol]	FIRE DEPT. CONNECTION
[Symbol]	TRANSFORMER	[Symbol]	SOIL SUBDRAN
[Symbol]	WATER SHUT-OFF VALVE	[Symbol]	GAS LINE-UNDERGROUND
[Symbol]	TRAFFIC SIGN	[Symbol]	ELECTRIC-UNDERGROUND
[Symbol]	FLAG POLE	[Symbol]	TELEPHONE-UNDERGROUND
[Symbol]	LIGHT POLE	[Symbol]	UNDERGROUND CABLE/TV
[Symbol]	TREES	[Symbol]	LAWN SPRINKLER SLEEVE
[Symbol]	TREE LINE		
[Symbol]	MANHOLE		
[Symbol]	CATCH BASIN		
[Symbol]	FIRE HYDRANT		
[Symbol]	WATER VALVE		
[Symbol]	FLARED END SECTION		
[Symbol]	MAILBOX		
[Symbol]	NOTE NUMBER		
[Symbol]	MEASURED DISTANCE		
[Symbol]	DISTANCE PER RECORDED PLAT		
[Symbol]	SOL BORING		

EROSION CONTROL SYMBOLS

SYMBOL	DESCRIPTION
[Symbol]	SEDIMENT CONTROL FENCE
[Symbol]	INLET PROTECTION
[Symbol]	NOTE REFERENCE
[Symbol]	PARKING STALL COUNT
[Symbol]	LARGE SHEET DETAIL
[Symbol]	COORDINATE POINT
[Symbol]	REVISION - ADDENDUM, BULLETIN, ETC.
[Symbol]	REVISED AREA (THIS ISSUE)
[Symbol]	EXIT LOCATION: A = ACCESSIBLE E = EGRESS S = SERVICE

LEGAL DESCRIPTION

PART OF LOT 1, BLOCK 1, SOUTHTOWN SHOPPING CENTER 3RD ADDITION, HENNEPIN COUNTY, MINNESOTA.

BENCHMARK

SITE BENCHMARK:
TOP NUT OF FIRE HYDRANT
LOCATION: HYDRANT IS LOCATED 70.6 FT EAST OF THE SE CORNER OF THE McDONALDS BUILDING.

CIVIL SHEET INDEX & REVISION MATRIX

SHEET NO.	DESCRIPTION	DATE
C0.1	CIVIL TITLE SHEET	07/14/17
C1.1	EXISTING CONDITIONS & DEMOLITION	08/23/17
C2.1	SITE PLAN	
C2.2	DRIVE-THRU LAYOUT	
C2.3	DRIVE-THRU DETAILS	
C2.4	DRIVE-THRU DETAILS	
C2.5	DRIVE-THRU DETAILS	
C2.6	STRIPING	
C3.1	GRADING, DRAINAGE, PAVING, & EROSION CONTROL	
C7.1	CIVIL CONSTRUCTION DETAILS	

OWNER

McDONALD'S USA, LLC.
1650 WEST 82ND STREET #900
BLOOMINGTON, MN 55431-9888
TEL (952) 884-4355
FAX (952) 885-4755
CONTACT: VICKY STADTHER

PROJECT CONTACTS

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LANDFORM
105 SOUTH FIFTH AVENUE, SUITE 513
MINNEAPOLIS, MN 55401
TEL 612-252-9070
FAX 612-252-9077
CONTACT: SEAN MURPHY

SURVEYOR
LANDFORM
105 SOUTH FIFTH AVENUE, SUITE 513
MINNEAPOLIS, MN 55401
TEL 612-252-9070
FAX 612-252-9077
CONTACT: ERIC LINDGREN

ARCHITECT
REPRISE
12400 PORTLAND AVE S, SUITE 100
BURNSVILLE, MN 55337
TEL 952-252-4042
FAX 952-252-4043
CONTACT: KRISTI DONAHUE

SITE/UTILITY CONTACTS

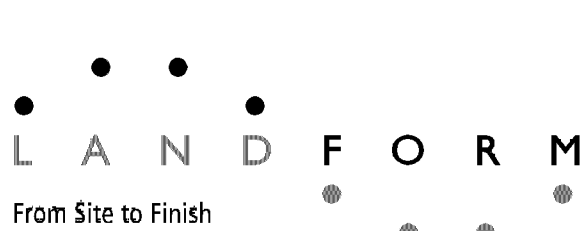
CITY PLANNER
CITY OF BLOOMINGTON
1800 WEST OLD SHAKOPEE ROAD
BLOOMINGTON, MN 55431

NICK M. JOHNSON

NickJohnson@BloomingtonMN.gov
TEL: 952-563-8925
FAX:



Know what's Below.
Call before you dig.



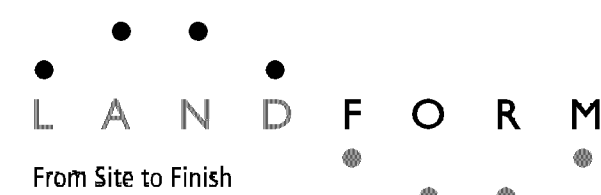
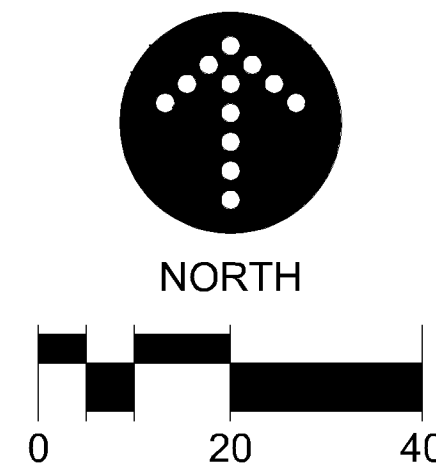
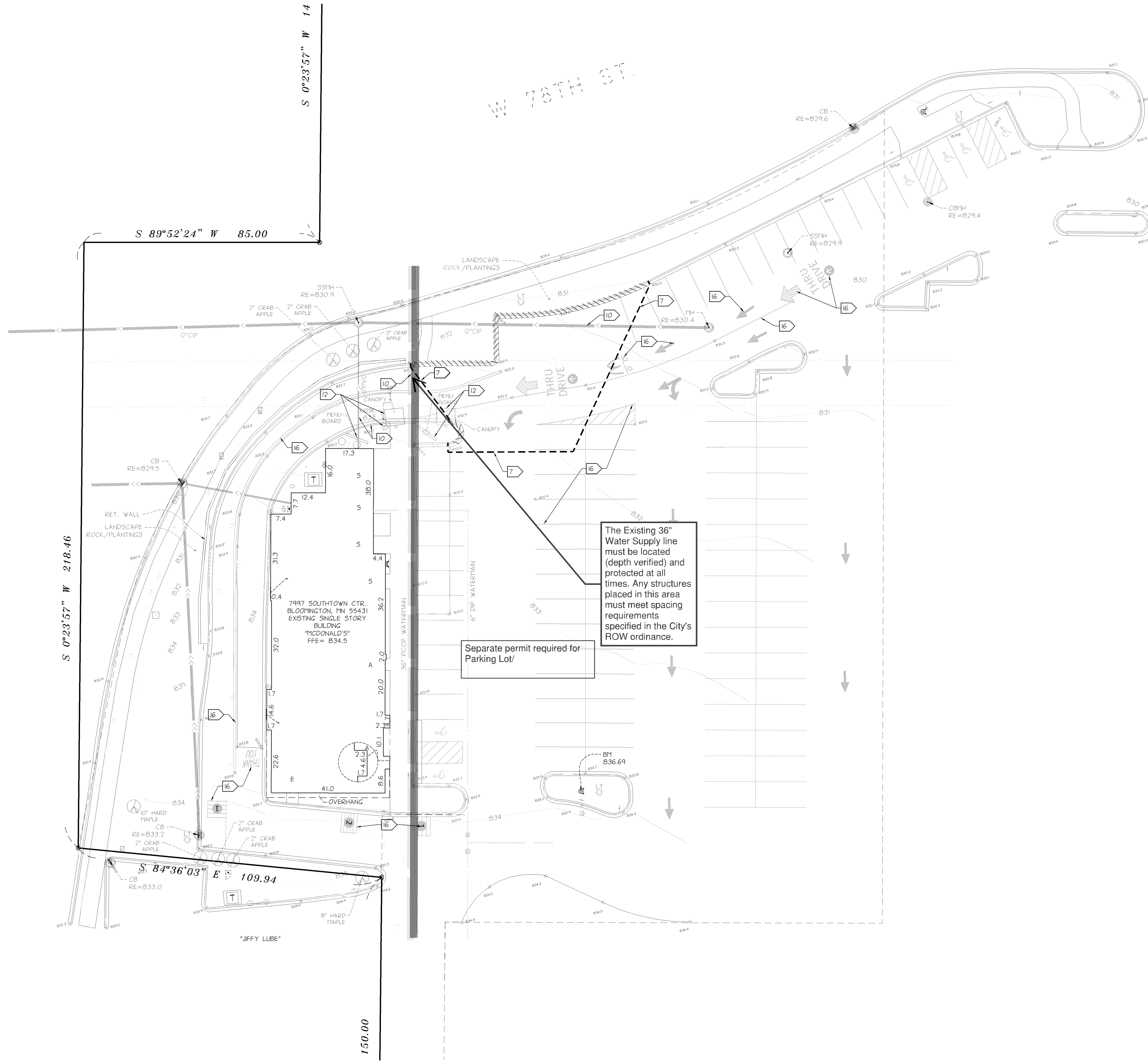
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Fax: 612-252-9077
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NOT FOR
CONSTRUCTION

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SHEET NO.	CITY	STATE	COUNTY	SHEET ADDRESS	SHEET NAME	DATE ISSUED	DATE REVIEWED	DATE ISSUED	STATE NUMBER	NATIONAL NUMBER	FILE NAME	PROJECT NO.
C0.1	BLOOMINGTON	MN	HENNEPIN	7997 SOUTHTOWN CENTER	CIVIL TITLE SHEET	08-22-17	08-22-17	08-22-17	022-0916	19751	C001MCD208.DWG	MCD12208



105 South Fifth Avenue
Suite 513
Minneapolis, MN 55401
Tel: 612-252-9070
Fax: 612-252-9077
Web: landform.net

- EXISTING CONDITIONS**
- BACKGROUND INFORMATION SHOWN IS FROM SURVEY BY LANDFORM PROFESSIONAL SERVICES, LLC, MINNEAPOLIS, MN, ON JUNE 17, 2011, 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.
 - SEE SHEET C3.1 FOR EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT MUST BE IN PLACE PRIOR TO DISTURBANCES TO SITE.
 - BUILDING DEMOLITION: VERIFY WITH OWNER THAT BUILDING HAS BEEN CLEARED OF REGULATED MATERIALS REQUIRING SPECIAL HANDLING OR DISPOSAL AND EXAMINED BY COMPETENT PERSON. REMOVE STRUCTURE, COLUMNS, CANOPIES, AND ANY ASSOCIATED CONSTRUCTION IN ITS ENTIRETY. REFER TO ARCHITECTURE.
 - 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 TREES NOTED, INCLUDING ROOT STRUCTURES, FROM THE SITE. COORDINATE WITH OWNER TO MARK TREES TO BE SAVED OR TRANSPLANTED PRIOR TO CLEARING.
 - 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 ELECTRICAL HANDHOLES, PULLBOXES, POWERPOLES, GUYLINES, AND STRUCTURES DISTURBED BY CONSTRUCTION IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS.
 - EXISTING PIPING AND CONDUITS MAY BE ABANDONED IN-PLACE IF FILLED WITH SAND AND IF NOT IN LOCATION OF PROPOSED BUILDING OR IN CONFLICT WITH PROPOSED UTILITIES OR STRUCTURES. TERMINATE EXISTING SERVICES AT THE SUPPLY SIDE IN CONFORMANCE WITH PROVIDER'S STANDARDS.
 - HALL DEMOLITION DEBRIS OFF-SITE TO A FACILITY APPROVED BY REGULATORY AUTHORITIES FOR THE HANDLING OF DEMOLITION DEBRIS.
 - REMOVE PAVEMENT MARKINGS.
- DEMOLITION LEGEND**
- ////////// CURB REMOVAL
 - PAVEMENT SAWCUT

STATE
MN

CITY
BLOOMINGTON

COUNTY
HENNEPIN

STREET ADDRESS
7997 SOUTHTOWN CENTER

SHEET NAME
EXISTING CONDITIONS & DEMOLITION

NATIONAL NUMBER
10761

DRAWN BY
JDB

PROTO ISSUED

REVIEWED BY
CNC

DATE REVIEWED
08-22-17

DATE ISSUED
08-23-17

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OFFICE ADDRESS
1650 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-9888 (952)-884-4355

REVISION HISTORY

REV	DATE	CITY SUBMITTAL
01	07-14-17	CITY SUBMITTAL
02	08-23-17	CITY SUBMITTAL

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
License Number 46224

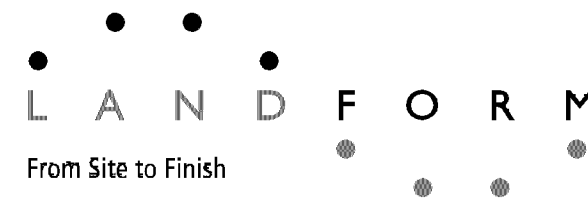
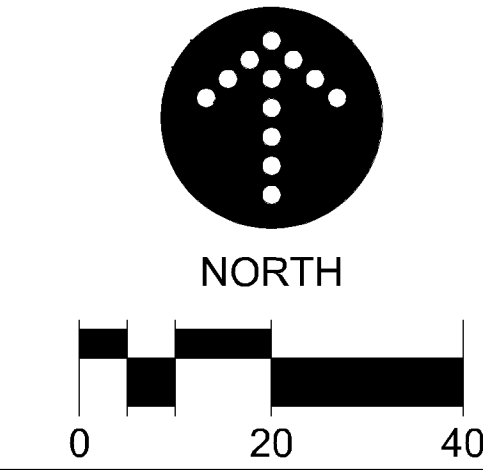
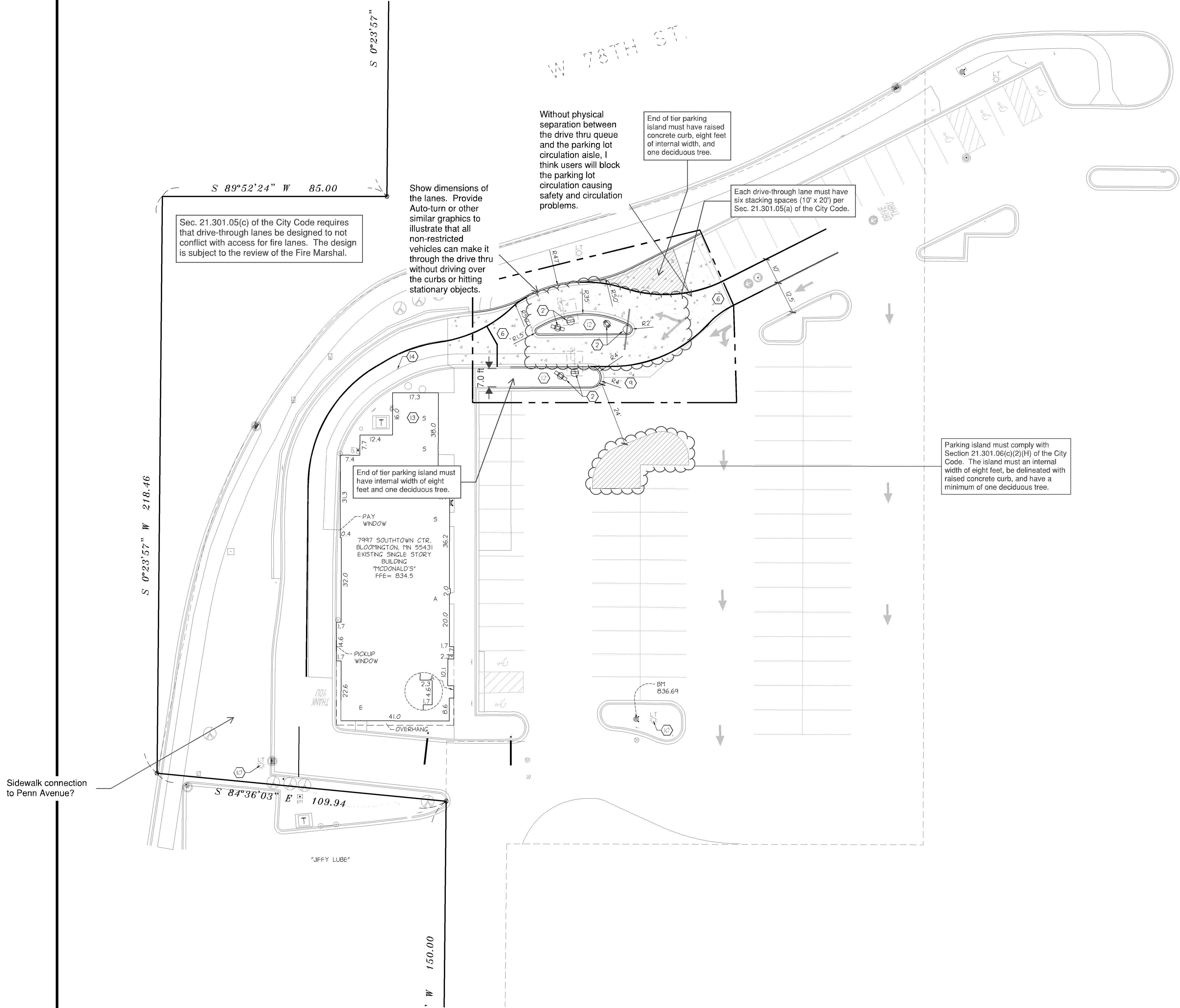
Date

SHEET NO.

C1.1

FILE NAME: C101MCD208.DWG

PROJECT NO. MCD12208



105 South Fifth Avenue
Suite 513
Minneapolis, MN 55401
Tel: 612-252-9070
Fax: 612-252-9077
Web: landform.net

SITE CONSTRUCTION NOTES			
1	MCDONALD'S PYLON SIGN. - NOT USED		
2	DRIVE-THRU SIGNAGE. SEE SHEET C2.2.		
3	STATE AND ADA APPROVED ACCESSIBLE SIGN AND BOLLARD. - NOT USED		
4	STATE AND ADA APPROVED ACCESSIBLE SIGN AND BOLLARD WITH "VAN ACCESSIBLE" SIGN. - NOT USED		
5	6' x 36" BOLLARD. - NOT USED		
6	CONCRETE DRIVE APRONS AND SLABS. REFER TO SHEET C3.1 FOR SPECIFICATIONS.		
7	CONCRETE SIDEWALK. MEET AND MATCH EXISTING SIDEWALK. - NOT USED		
8	CONCRETE PATIO. MEET AND MATCH SIDEWALK. - NOT USED		
9	BITUMINOUS PAVEMENT. REFER TO SHEET C3.1 FOR SPECIFICATIONS.		
10	PARKING LOT LIGHT. - EXISTING		
11	6' x 42" RAILING. REFER TO ARCHITECTURAL. ENSURE THAT RAILING HAS 18 INCHES CLEAR FROM DOOR FRAME. - NOT USED		
12	PLANTING AREA. REFER TO SHEET C3.1 FOR DETAILS.		
13	TRASH ENCLOSURE. REFER TO ARCHITECTURAL.		
14	STACKING DISTANCE IS 140'		
15	CONNECTION TO PUBLIC SIDEWALK. - NOT USED		
16	BIKE RACK. REFER TO SHEET L2.1 FOR DETAILS. - NOT USED		
17	STATE AND ADA APPROVED ACCESSIBLE SIGN AND BOLLARD WITH "ACCESS AISLE / NO PARKING" SIGN. - NOT USED		

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		

PARKING SUMMARY			
TOTAL PARKING STALLS REMOVED		12 EA.	

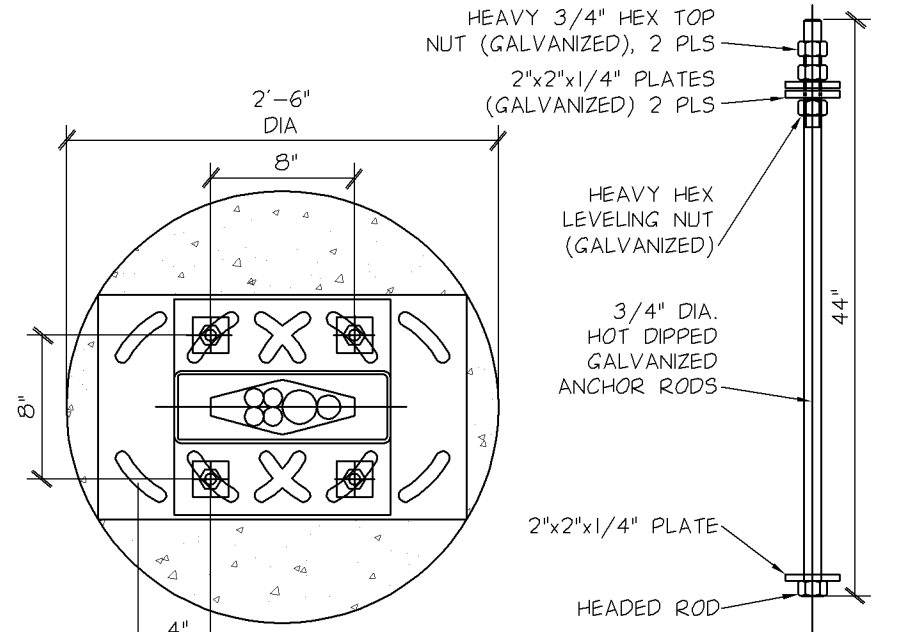
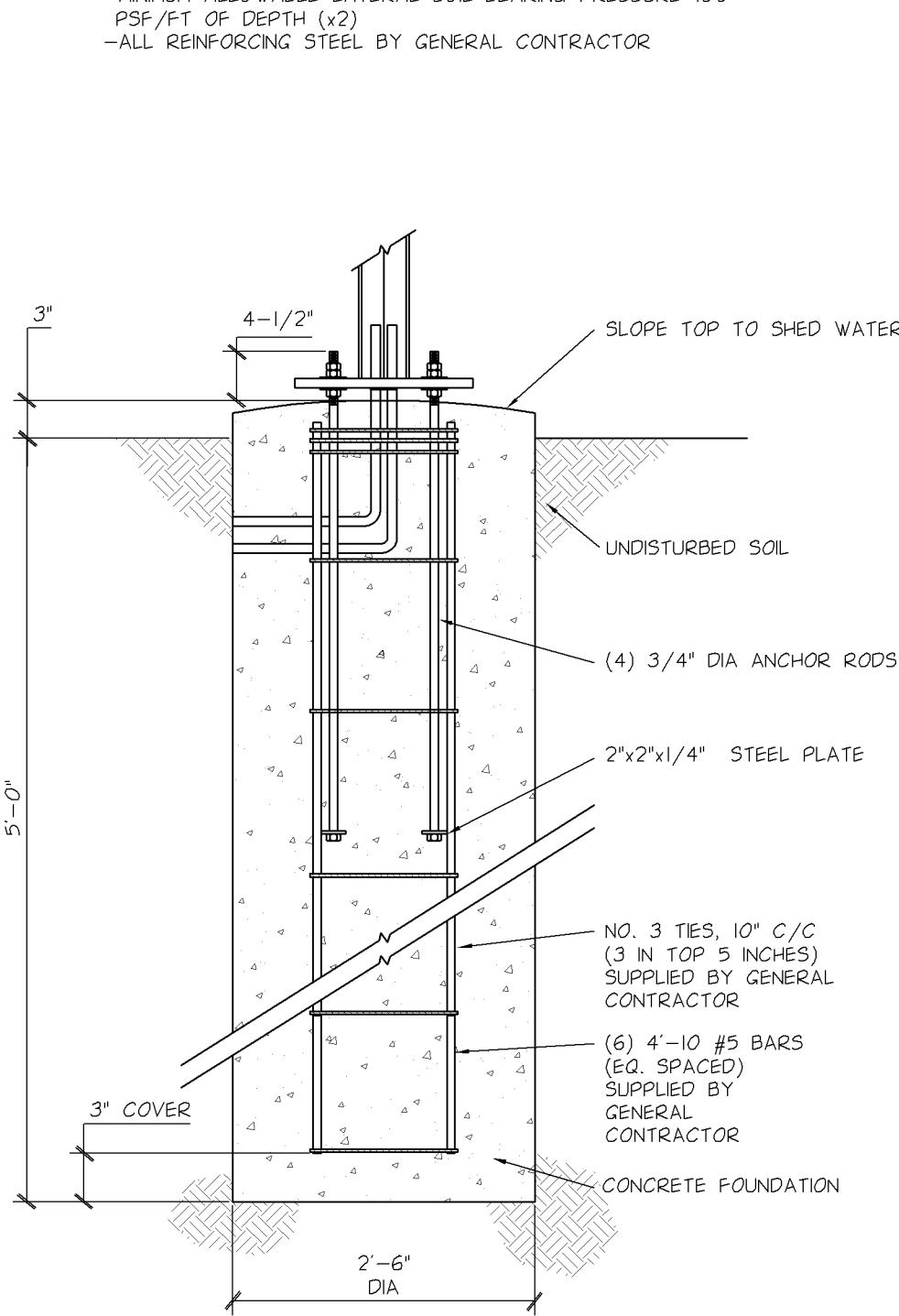
CONSTRUCTION AREA SUMMARY			
EXISTING:			
PERVIOUS	634 S.F.	11.8%	
IMPERVIOUS	4,764 S.F.	88.2%	
TOTAL	5,398 S.F.	100.0%	
PROPOSED:			
PERVIOUS	1,129 S.F.	21.0%	
IMPERVIOUS	4,269 S.F.	79.0%	
TOTAL	5,398 S.F.	100.0%	

LEGEND	
---	CONSTRUCTION LIMITS

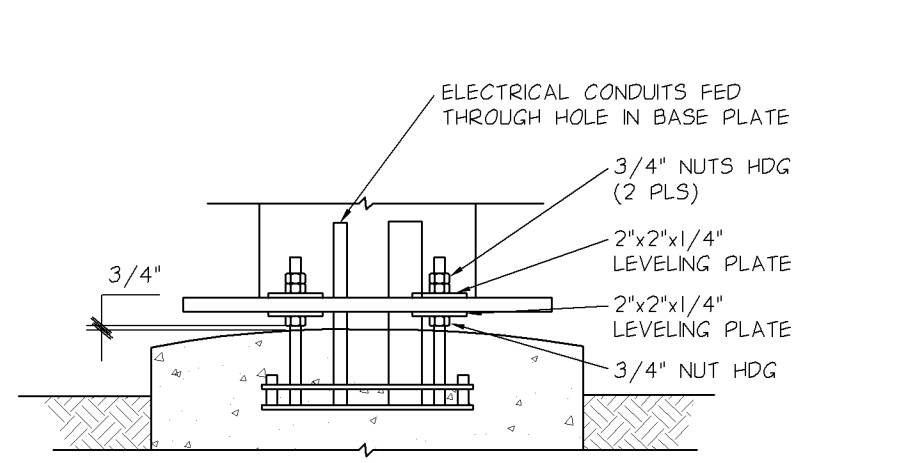
REVISION HISTORY		DATE		REV	
		07-14-17	CITY SUBMITTAL		
		08-23-17	CITY SUBMITTAL		
CERTIFICATION					
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.					
NOT FOR CONSTRUCTION					
License Number: 46224					
Date:					
McDONALD'S USA, LLC.					
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DRAWN BY		STATE		JOB	
JDB		MN		PROTO ISSUED	
REVIEWED BY		COUNTY		DATE REVIEWED	
CNC		HENNEPIN		08-22-17	
DATE REVIEWED		SHEET NAME		DATE ISSUED	
08-22-17		SITE PLAN		08-23-17	
NATIONAL NUMBER		STATE NUMBER		JOB NUMBER	
10761		022-0916		022-0916	
C2.1					
FILE NAME: C201MCD208.DWG					
PROJECT NO. MCD12208					

FOUNDATION NOTES:
-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.
-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



ODMB AND PRE-BROWSE FOUNDATION - 90 MPH

NO SCALE

GENERAL NOTES

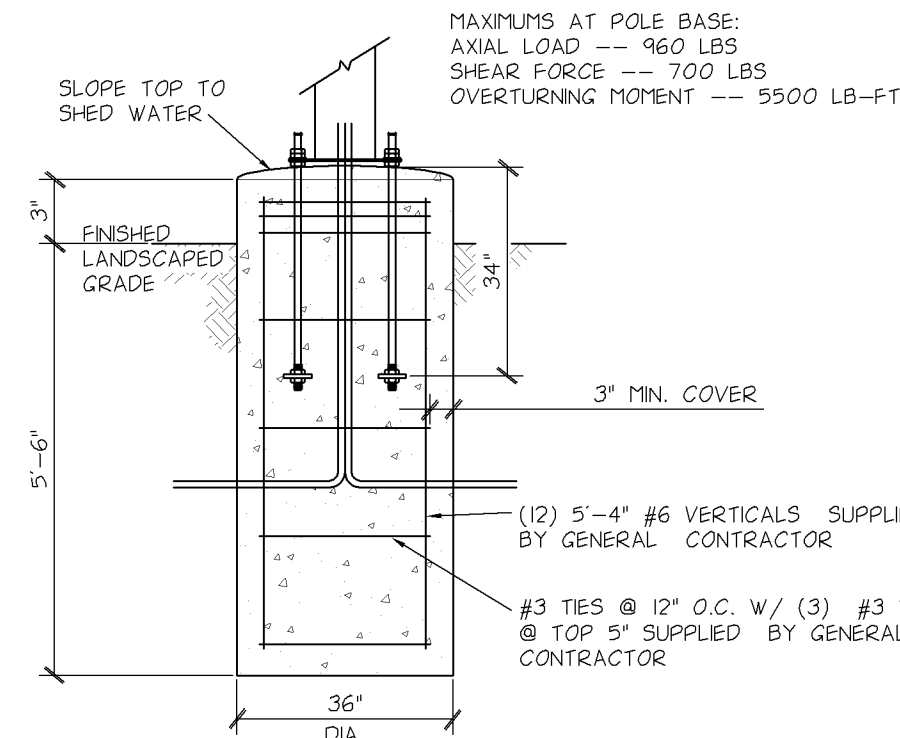
-THE FOLLOWING CODES WERE USED IN DESIGN
-BC 2009
-ASCE 7-05
-AISC 13th EDITION
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL - 325#
-SHEAR - 104#
-MOMENT - 407#
-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE 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 MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.3-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6.
-AIR 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 3.1-A.
-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 & 3.3, PERFORMED BY GENERAL CONTRACTOR.
-ANCHOR RODS 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=30ksi)
-HSS ROUND SECTION: ASTM A500 GRADE B (F_y=42ksi)
-HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y=46ksi)
-HEAVY HEX LEVELING NUTS: ASTM A36 OR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 OR 55, 3" WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK 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 F844 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

-THE FOLLOWING CODES WERE USED IN DESIGN
-BC 2009
-ASCE 7-05
-AISC 13th EDITION
-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 MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.3-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6.
-AIR 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 3.1-A.
-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 & 3.3, 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 MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 3.11-E.
STEEL:
-STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (F_y = 30ksi)
-HSS ROUND SECTION: ASTM A500 GRADE B (F_y = 42ksi)
-HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y = 46ksi)
-CONNECTION BOLTS A325
-STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
-REINFORCEMENT: GRADE 60 - BY GENERAL CONTRACTOR
-NUTS: A563H 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.

NOTE:

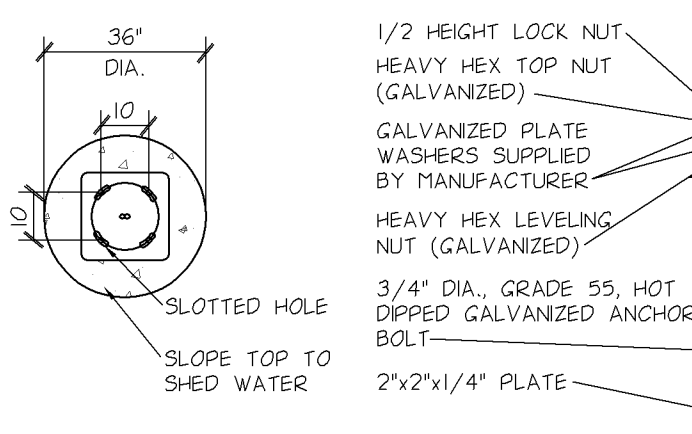
-DESIGN CODES
-BC 2009
-ASCE 7-05
-AISC 13th EDITION
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL LOAD - 700 LBS
-SHEAR FORCE - 700 LBS
-OVERTURNING MOMENT - 5500 LB-FT
-USE 3000 PSI CONCRETE COMPRESSIVE STRENGTH (F_c)
-PIER DEPTHS REQUIRED 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 (x2)
-TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
-3" MIN. CONCRETE COVER FOR REINFORCEMENT
-ALL REINFORCING STEEL BY GENERAL CONTRACTOR



FOUNDATION - NTS

NOTES:

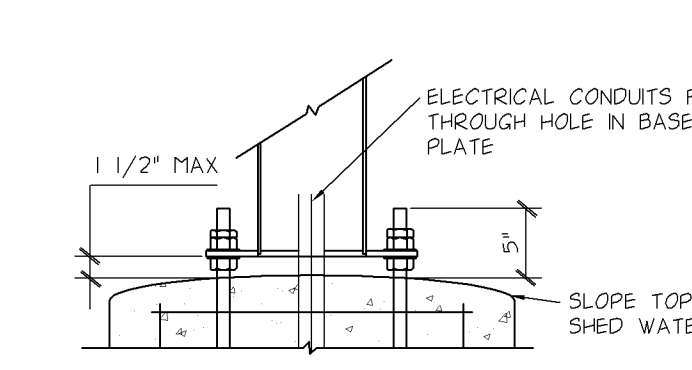
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-HOT DIPPED GALVANIZED BOLTS
-F1554 GRADE 36 ANCHOR BOLTS
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
-DO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



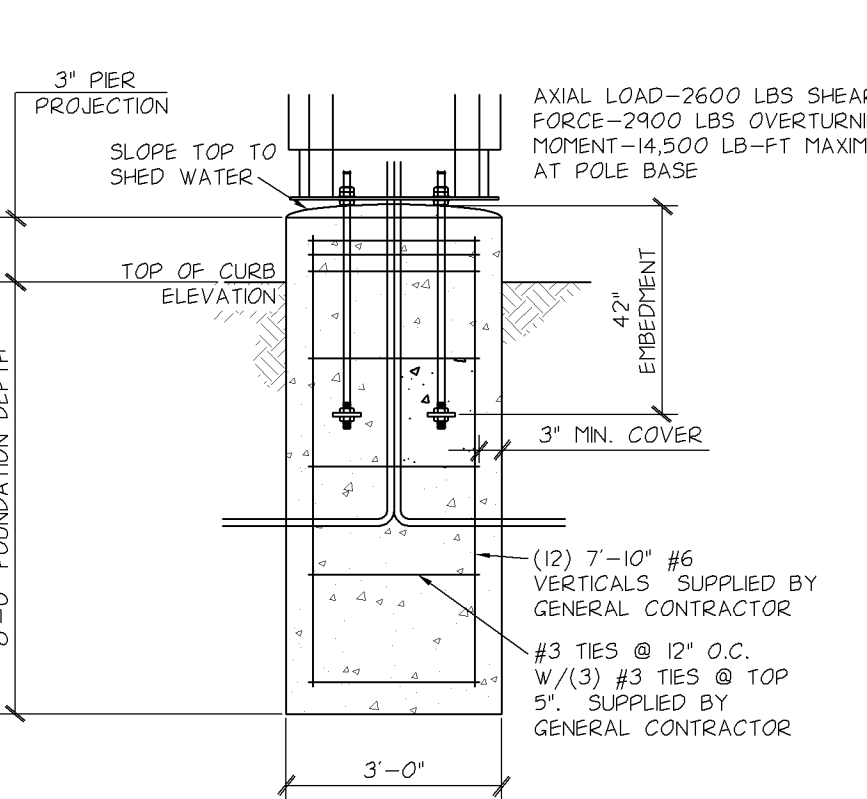
CONNECTION DETAILS - NTS

DOUBLE GATEWAY FOUNDATION - 100 MPH

NO SCALE

NOTE:

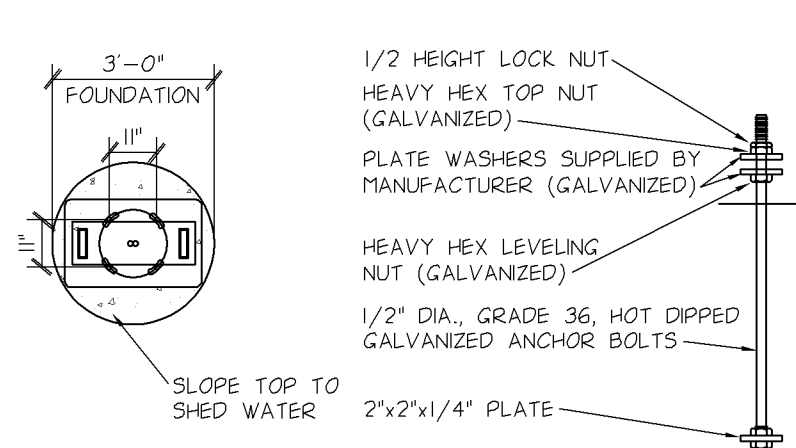
-DESIGN CODES
-BC 2009
-ASCE 7-05
-AISC 13th EDITION
-WIND SPEED 100 MPH (MPH 3-SEC GUST)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES (F_y = #)
-AXIAL - 2600 LBS
-SHEAR - 2400 LBS
-OVERTURNING MOMENT - 14,500 LB-FT
-USE CONCRETE WITH A 3000PSI MINIMUM COMPRESSIVE STRENGTH (F_c).
-PIER 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 (x2).
-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.
-FOUNDATION IS DESIGNED FOR SINGLE OR DOUBLE POLE COLUMNS.
-ALL REINFORCING STEEL BY GENERAL CONTRACTOR.



FOUNDATION - NTS

NOTES:

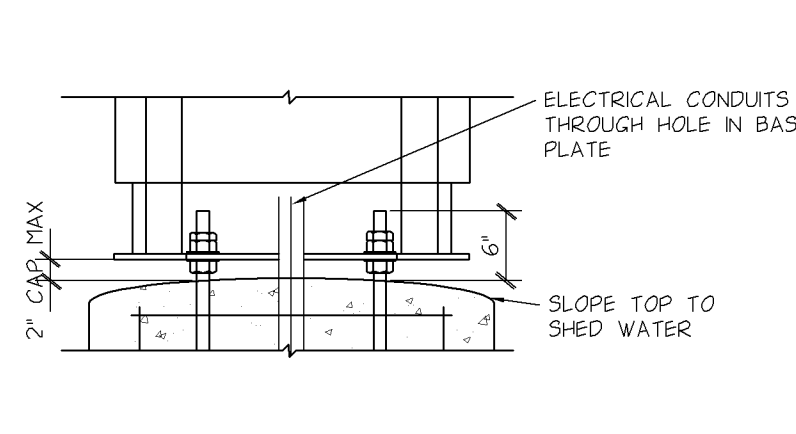
-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
-USE F1554 GRADE 36 BOLTS MINIMUM.
-USE HOT DIPPED GALVANIZED BOLTS.
-ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
-ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER.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



ANCHOR BOLT PATTERN - NTS

NOTES:

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-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

GENERAL NOTES

-THE FOLLOWING CODES WERE USED IN DESIGN
-BC 2009
-ASCE 7-05
-AISC 13th EDITION
-WIND SPEED 100 MPH (ULTIMATE WIND SPEED)
-EXPOSURE C
-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES
-AXIAL - 700 LBS
-SHEAR - 700 LBS
-MOMENT - 5500 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.
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-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 MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.3-A.
-USE OF ADVERTISEMENTS SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6.
-AIR 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 3.1-A.
-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 & 3.3, 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 MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 3.11-E.
STEEL:
-STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (F_y = 30ksi)
-HSS ROUND SECTION: ASTM A500 GRADE B (F_y = 42ksi)
-HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (F_y = 46ksi)
-CONNECTION BOLTS A325
-STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36
-REINFORCEMENT: GRADE 60 - BY GENERAL CONTRACTOR
-NUTS: A563H 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.
-DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS.
-ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER.

McDONALD'S USA, LLC.

NOT FOR CONSTRUCTION

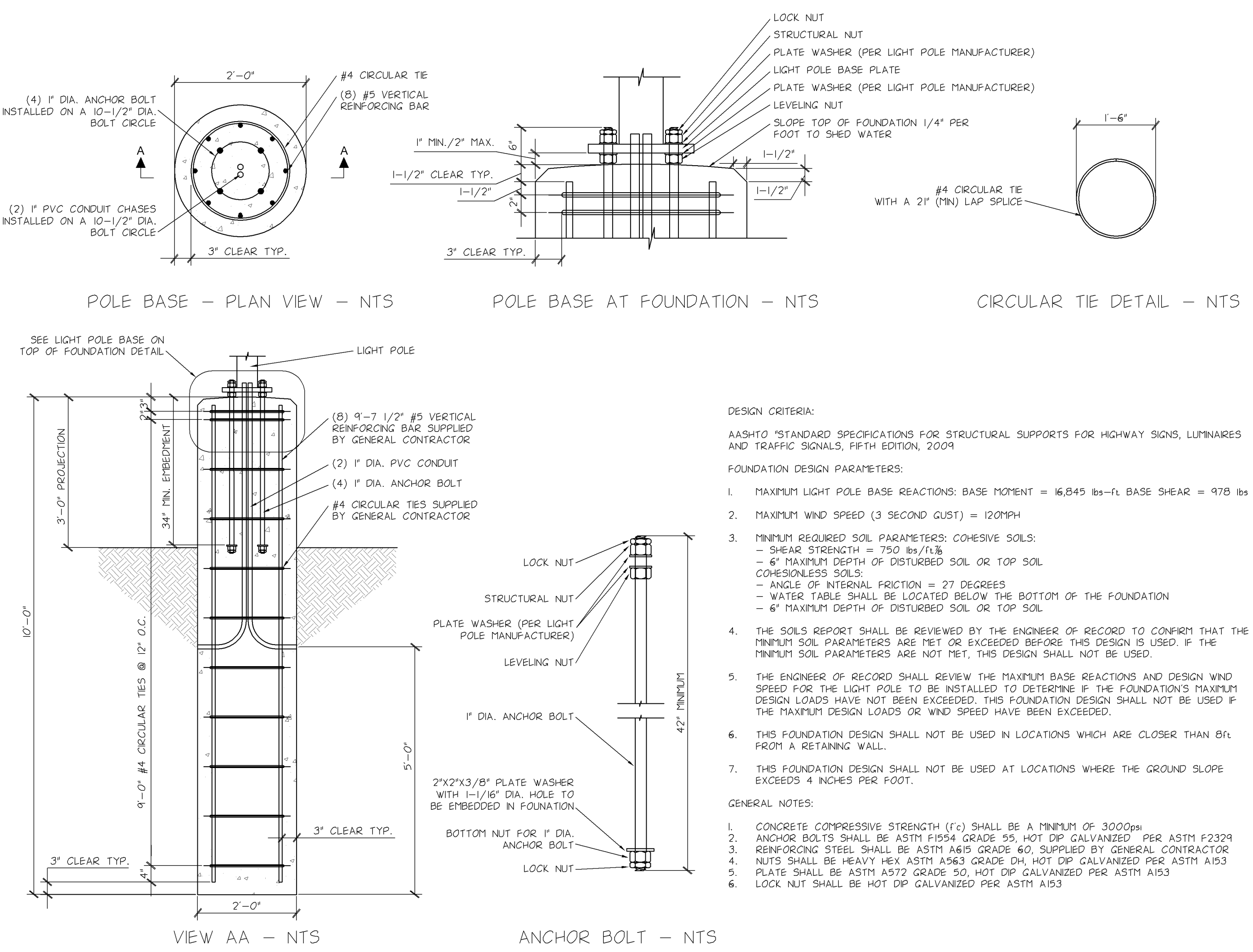
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CITY	STATE	COUNTY	STREET ADDRESS	SHEET NAME	NATIONAL NUMBER	DRAWN BY	JOB	DATE	REVISION HISTORY
BLOOMINGTON	MN	HENNEPIN	7997 SOUTHTOWN CENTER	DRIVE-THRU DETAILS	19761	JOB	PHOTO ISSUED	08-23-17	CITY SUBMITTAL 07-14-17 CITY SUBMITTAL 08-23-17

C2.3

FILE NAME: C203MCD208.DWG
PROJECT NO: MCD12208

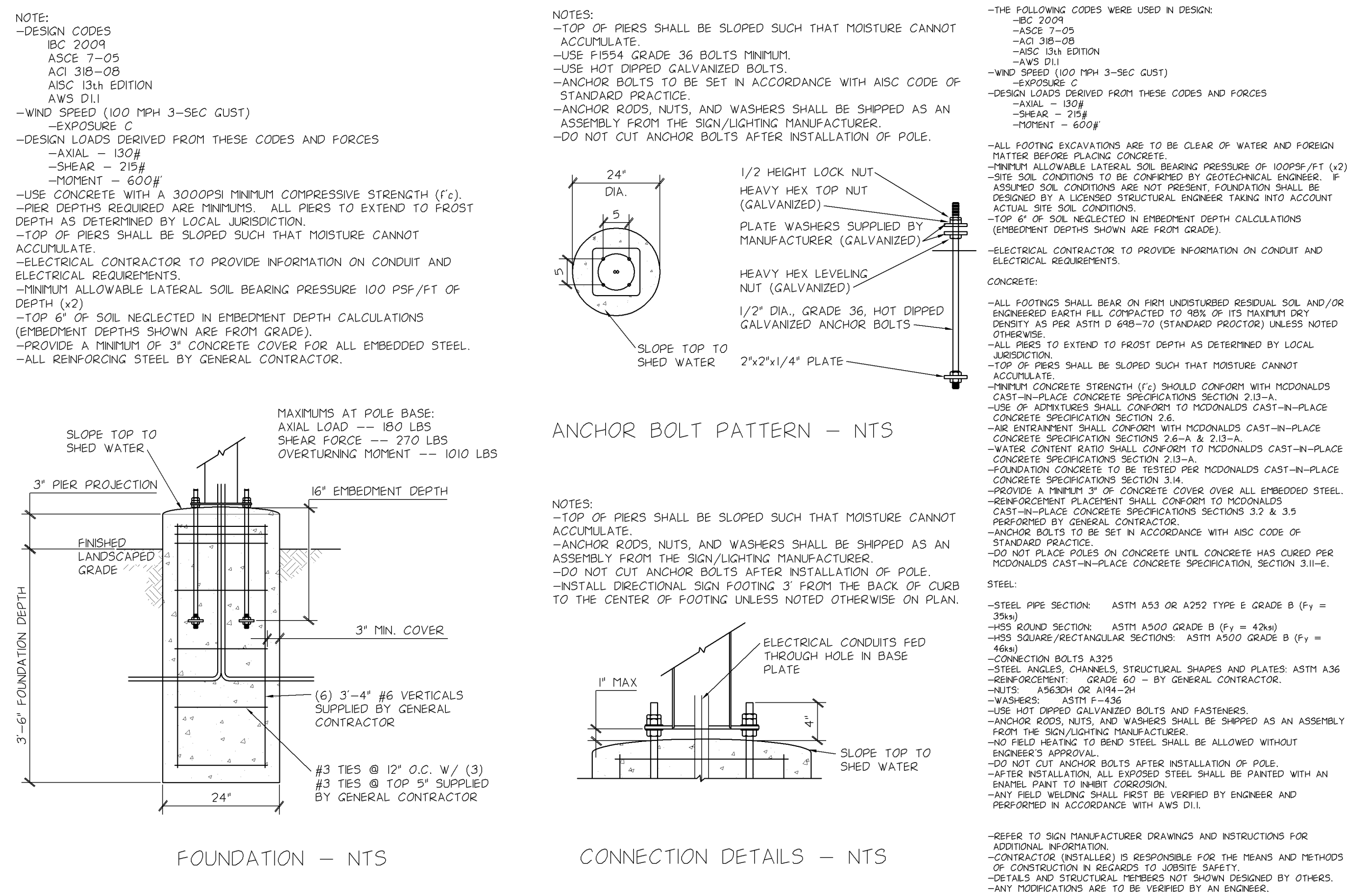
3



TYPICAL LIGHT POLE FOUNDATION DETAILS

NO SCALE

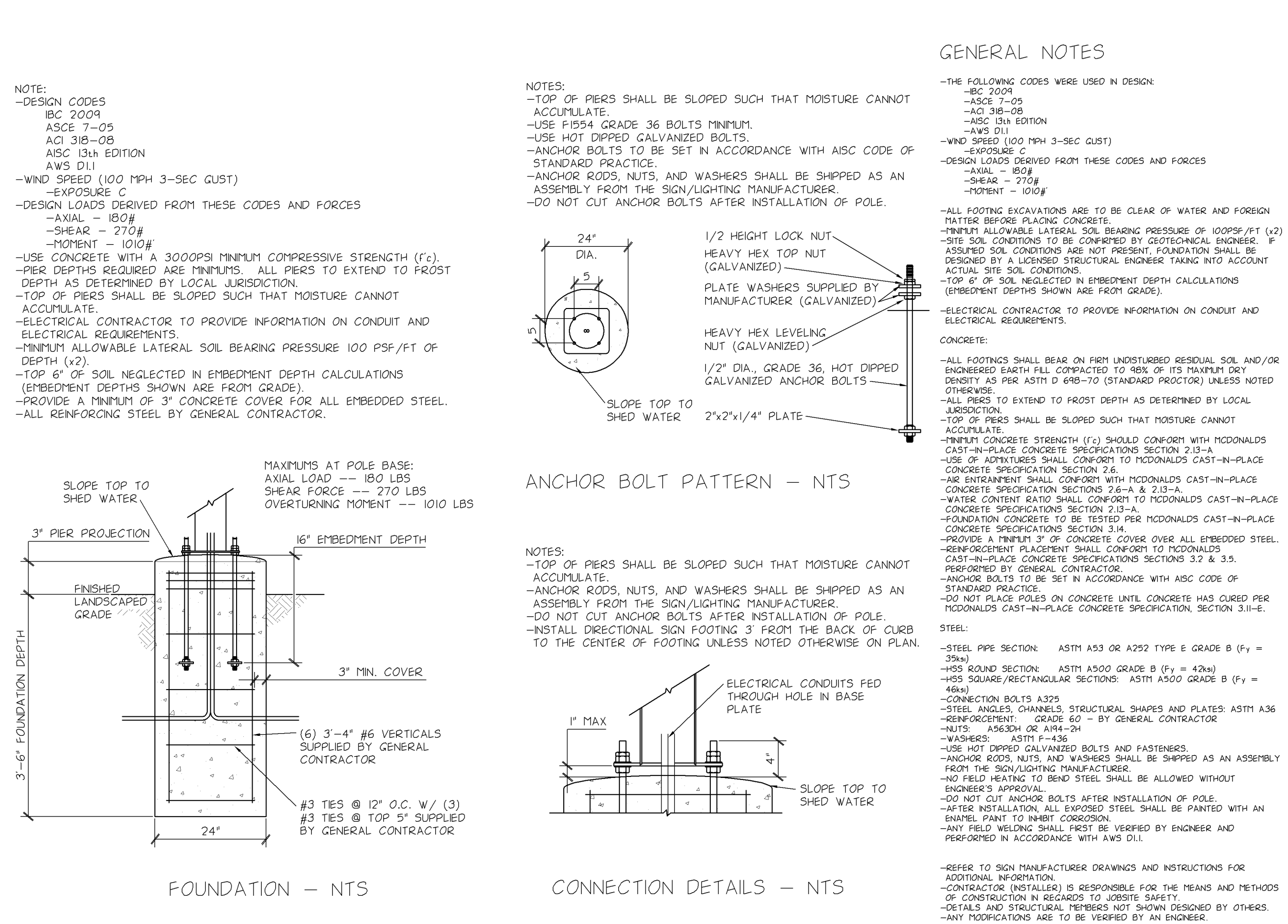
2



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

NO SCALE

1



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

NO SCALE

C2.4

FILE NAME: C204MCD208.DWG
PROJECT NO: MCD12208

CITY: BLOOMINGTON
STREET ADDRESS: 7997 SOUTHTOWN CENTER
SHEET NAME: DRIVE-THRU DETAILS
NATIONAL NUMBER: 19761

STATE: MN
COUNTY: HENNEPIN
DRAWN BY: JDB
JOB: PHOTO ISSUED
REVIEWED BY: CNC
DATE REVIEWED: 08-22-17
DATE ISSUED: 08-23-17

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

McDONALD'S USA, LLC.

THESE DRAWINGS AND SPECIFICATIONS ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF McDONALD'S USA, LLC. 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 USA, LLC. THESE DRAWINGS ARE NOT TO BE USED FOR ANY OTHER PROJECT OR AT A LATER DATE. THE USE OF THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF McDONALD'S USA, LLC IS STRICTLY PROHIBITED. ANY VIOLATION OF THESE TERMS SHALL BE CONSIDERED A BREACH OF CONTRACT AND SUBJECT TO LEGAL ACTION. THE CONTRACT DOCUMENTS FOR THIS PROJECT ARE THE SOLE BASIS FOR CONSTRUCTION. ANY MODIFICATIONS TO THE CONTRACT DOCUMENTS MUST BE APPROVED BY McDONALD'S USA, LLC.

CERTIFICATION

REV	DATE	REVISION HISTORY
01	07-14-17	CITY SUBMITTAL
02	08-23-17	CITY SUBMITTAL

REV	DATE	REVISION HISTORY
01	07-14-17	CITY SUBMITTAL
02	08-23-17	CITY SUBMITTAL

- KEY NOTES:
- A

2#12 & 1#12 GND, 3/4" CONDUIT TO LP-1 FOR CDD CANOPY LIGHTING

B

4#12 & 1#12 GND, & 1#12 ISOLATED GND, 3/4" CONDUIT TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

C

2#12 & 1#12 GND, & 1#12 ISOLATED GND, 3/4" CONDUIT TO CP FOR ISOLATED GROUND POWER TO CANOPIES. EACH CANOPY SHALL BE ON ITS OWN SEPARATE CIRCUIT.

D

2#12 & 1#12 GND, & 1#12 ISOLATED GND, 3/4" CONDUIT TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS & MEDIA PLAYERS.

E

2#12 & 1#12 GND, & 1#12 ISOLATED GND, 3/4" CONDUIT TO CP FOR ISOLATED GROUND POWER TO PRE-BROWSE BOARDS AND MEDIA PLAYERS.

F

(2) 1-1/2" CONDUIT
ONE FOR CANOPY CABLING
ONE FOR LOOP DETECTOR

G

2" CONDUIT - FOR CAT6 DATA CABLES

H

1-1/2" CONDUIT - FOR CAT6 DATA CABLES

I

1" CONDUIT - FOR CAT6 DATA CABLES
- GENERAL NOTES:

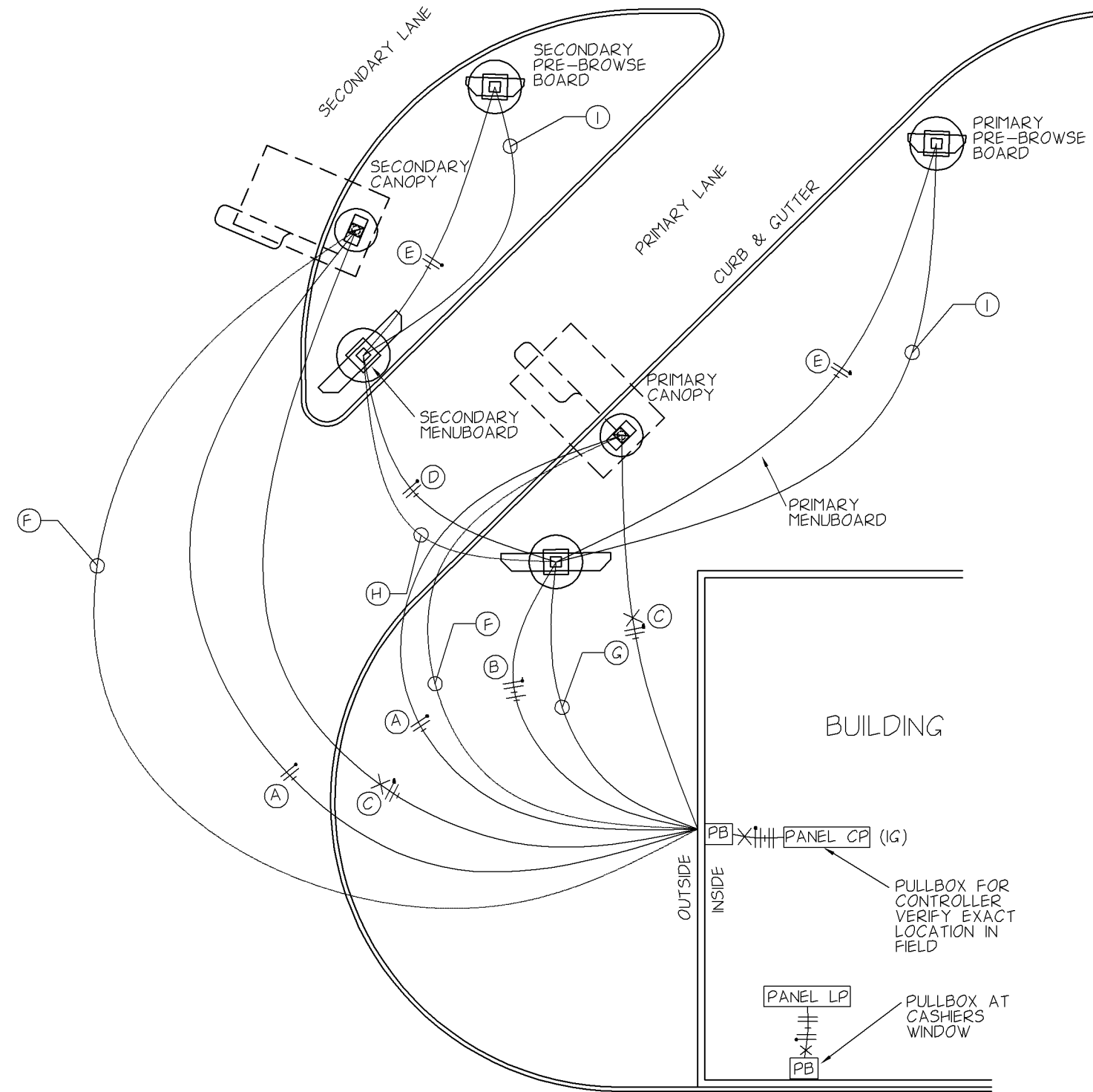
1. VERIFY EXACT CIRCUITS AND QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES ON DRAWING E4.2 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. PER MANUFACTURER'S INSTALLATION INSTRUCTIONS SEPERATE DEDICATED NEUTRALS ARE REQUIRED TO MENUBOARD AND PRE-BROWSE BOARD FOR EACH CIRCUIT (PLC AND LIGHTING).

3. IF ANY BENDS ARE REQUIRED, SWEEPS MUST BE PROVIDED IN CONDUITS.

4. FOR EXISTING LOCATIONS, VERIFY EXISTING CP PANEL HAS AMPACITY AND SUFFICIENT SPARES/SPACES FOR TWO (2) NEW 20A/1P CIRCUITS. UPGRADE CP PANEL TO 42 CIRCUITS IF NECESSARY.

5. VERIFY EXISTING PULLBOXES ARE SIZED FOR NEW CONDUIT ROUTING. MODIFY PULLBOXES IF NECESSARY.



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

DRIVE-THRU WIRING DETAIL

NO SCALE

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

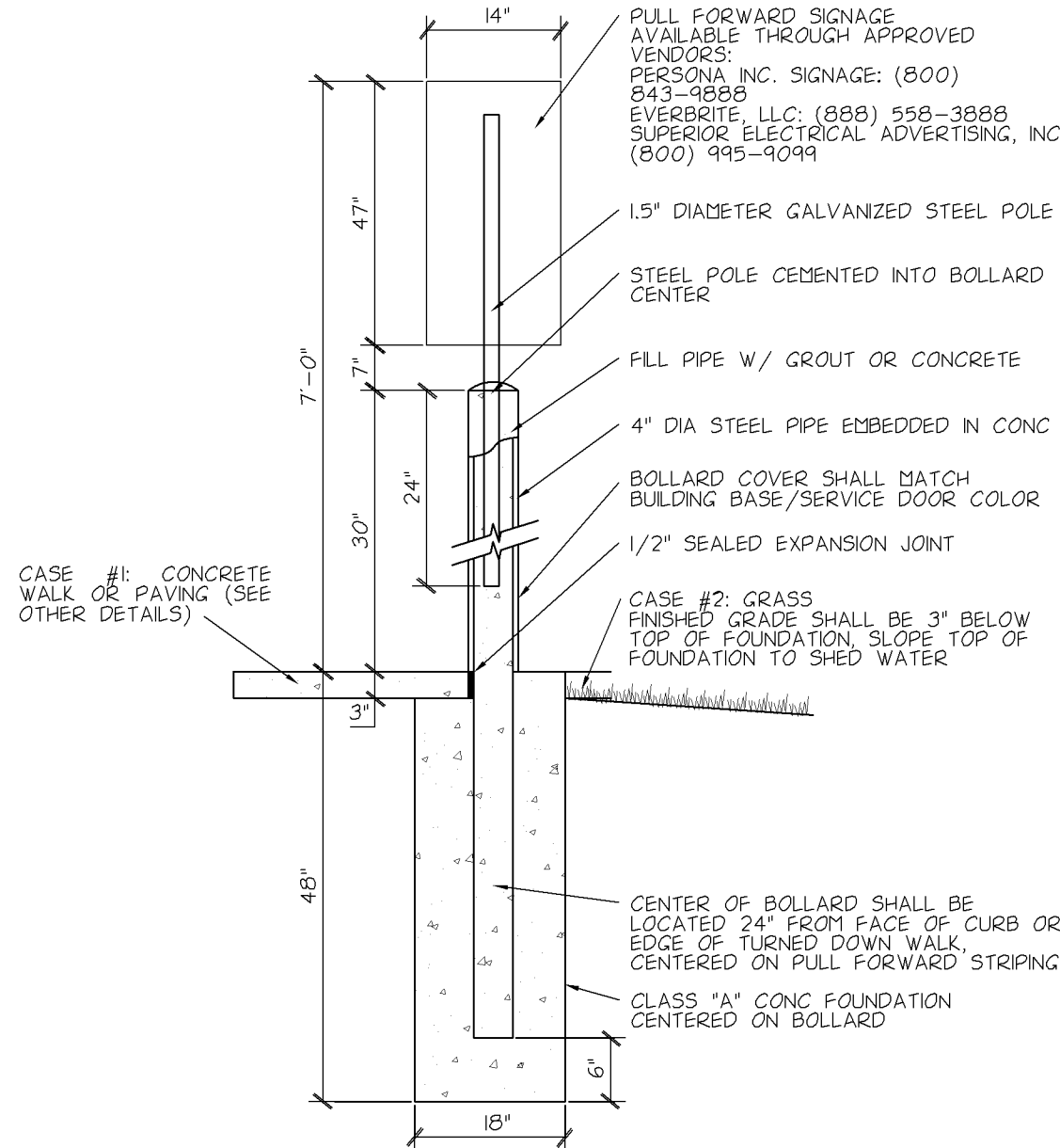
CANOPY SCHEMATIC DETAIL

NO SCALE

- NOTES:
1. THIS BOLLARD DETAIL SHALL APPLY ONLY TO BOLLARDS WITH PULL FORWARD SIGNAGE.
- PULL FORWARD SIGNAGE AVAILABLE THROUGH APPROVED VENDORS:
PERSONA INC. SIGNAGE: (800) 843-9888
EVERBRITE LLC (888) 398-3888
SUPERIOR ELECTRICAL ADVERTISING, INC (800) 945-4099

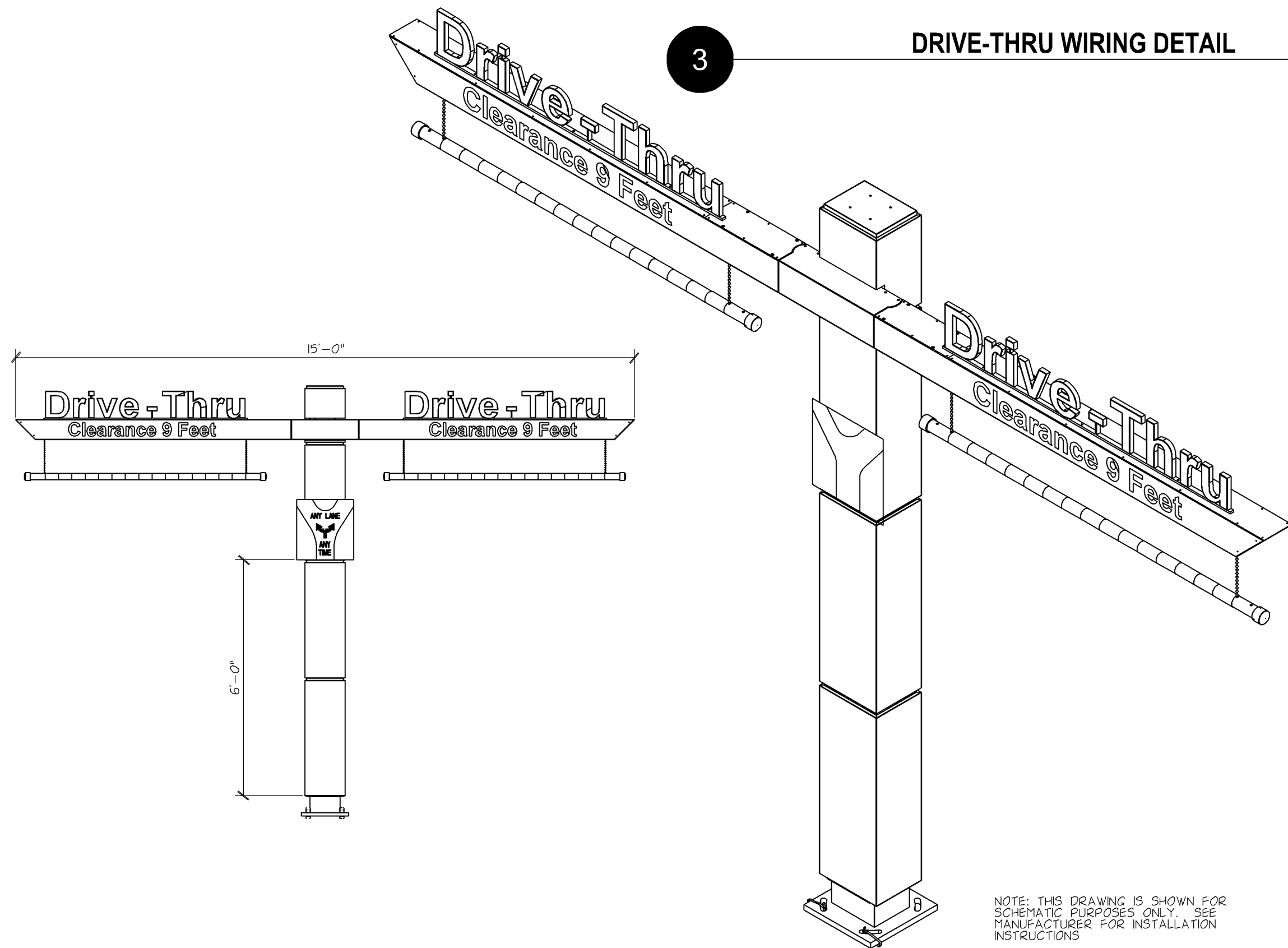
15" DIAMETER GALVANIZED STEEL POLE
STEEL POLE CEMENTED INTO BOLLARD CENTER
FILL PIPE W/ GROUT OR CONCRETE
4" DIA STEEL PIPE EMBEDDED IN CONC
BOLLARD COVER SHALL MATCH BUILDING BASE/SERVICE DOOR COLOR
1/2" SEALED EXPANSION JOINT
CASE #1: CONCRETE FINISHED GRADE SHALL BE 3" BELOW TOP OF FOUNDATION, SLOPE TOP OF FOUNDATION TO SHED WATER

CASE #2: GRASS
CENTER OF BOLLARD SHALL BE LOCATED 24" FROM FACE OF CURB OR EDGE OF TURNED DOWN WALK, CENTERED ON PULL FORWARD STRIPING
CLASS "A" CONC FOUNDATION CENTERED ON BOLLARD



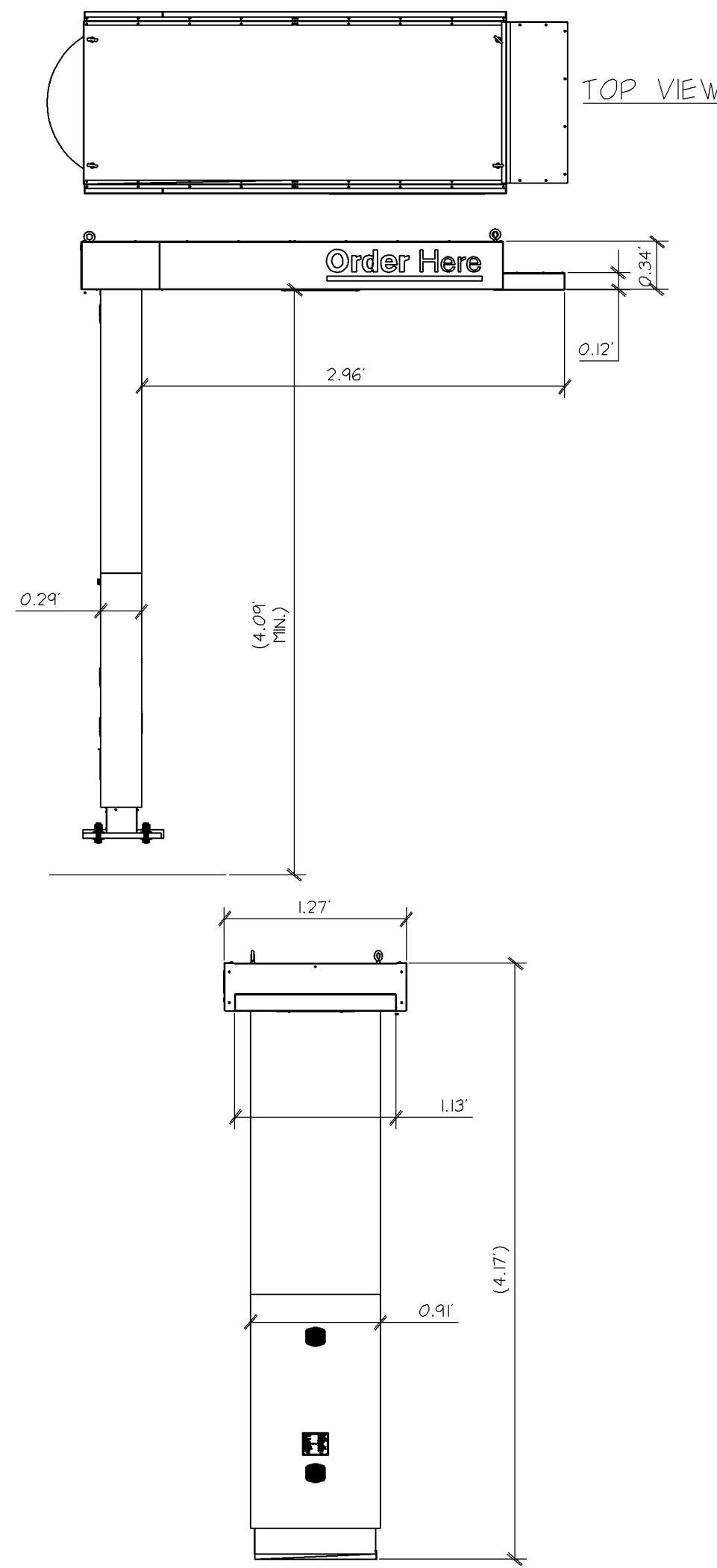
PULL FORWARD SIGN & BOLLARD DETAIL

NO SCALE

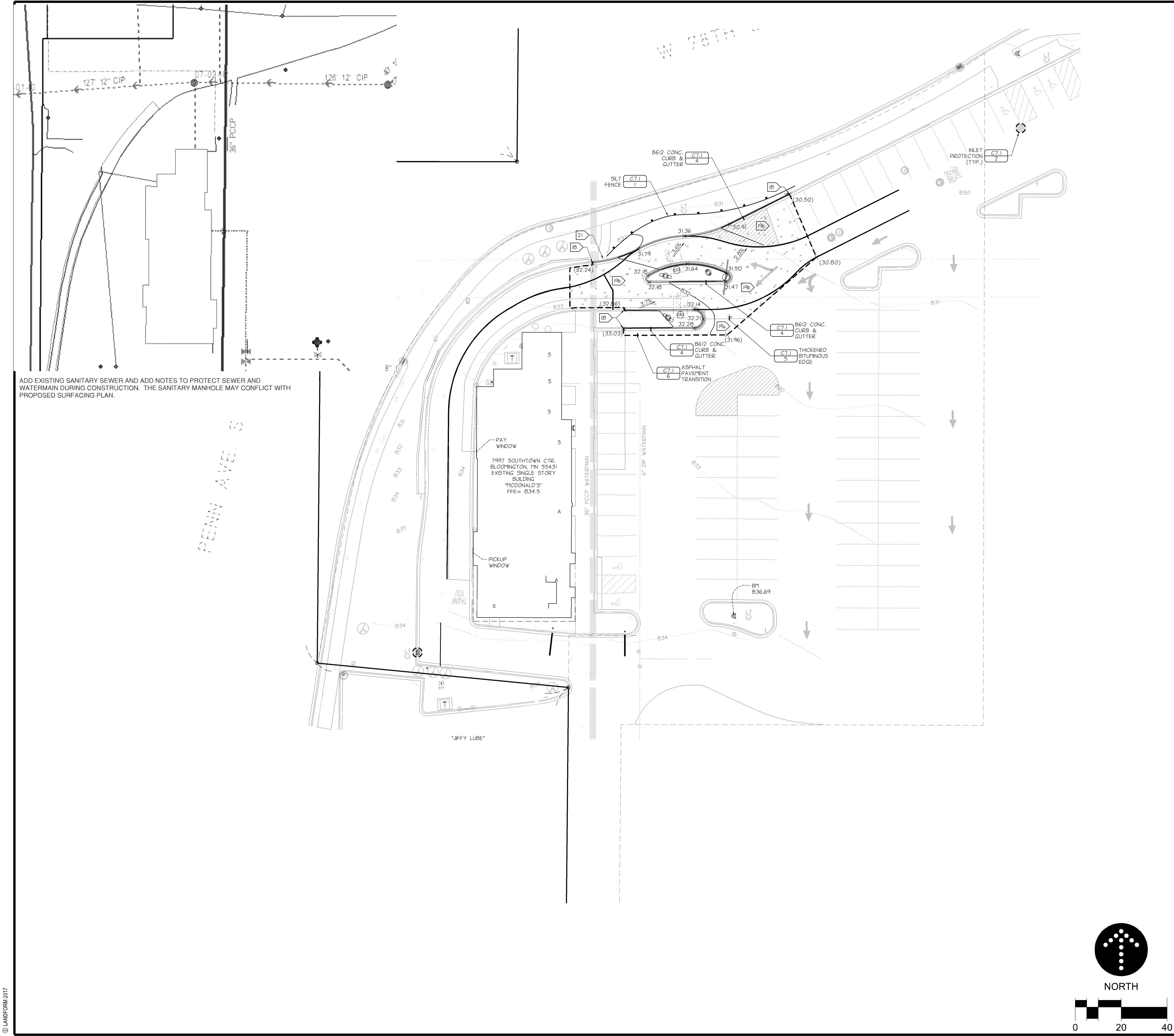


DOUBLE GATEWAY SCHEMATIC DETAIL

NO SCALE



SHEET NO.	CITY	STATE	DRAWN BY	REVISION HISTORY			
	BLOOMINGTON	MN	JDB	REV	DATE	CITY	SUBMITTAL
C2.5	STREET ADDRESS	COUNTY	PROTO. ISSUED		07-14-17		
					08-23-17		
PROJECT NO.	SHEET NAME	HENNEPIN	CNC	NOT FOR CONSTRUCTION			
C205MCD208.DWG	DRIVE-THRU DETAILS	DATE REVIEWED	09-22-17	McDONALD'S USA, LLC.			
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MCD12208	NATIONAL NUMBER	STATE NUMBER	DATE ISSUED	OFFICE ADDRESS			
				1650 W. 82ND STREET #900 BLOOMINGTON, MINNESOTA 55431-9888 (952)-884-4355			
19751	022-0916		09-23-17				



ADD EXISTING SANITARY SEWER AND ADD NOTES TO PROTECT SEWER AND WATERMAIN DURING CONSTRUCTION. THE SANITARY MANHOLE MAY CONFLICT WITH PROPOSED SURFACING PLAN.

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
MULCH	MN TYPE 22-III @ 30.5 LB/AC - TEMPORARY EROSION CONTROL MN TYPE 25-15I @ 120 LB/AC - PERMANENT TURF (MNDOT TYPE 1 @ 2 TON/AC, DISC ANCHORED)
FERTILIZER	MNDOT 3882
GENERAL PLACEMENT	MNDOT 3891 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 LFTS 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 RM ELEVATIONS OF CATCH BASINS.
- GRADES BETWEEN PROPOSED SPOT ELEVATIONS SHALL BE CONTINUOUS AND NONVARIABLE. SPOT ELEVATIONS SHALL GOVERN OVER CONTOUR LINES.
- MEET AND MATCH EXISTING CURB. PROVIDE 10 FOOT TRANSITION.
- PAVING SECTIONS
 - BITUMINOUS PAVING
 - 1.5-INCH BITUMINOUS WEAR (MNDOT 2360, SPWEA240B)
TACK COAT (MNDOT 2357)
2.5-INCH BITUMINOUS BASE (MNDOT 2360 SPNWB230B)
6-INCH AGGREGATE BASE (MNDOT 313B, CLASS 5)
 - CONCRETE DRIVES, APRONS, AND EXTERIOR SLABS
 - 7-INCH CONCRETE, 4,000 PSI, 5%-8% AIR ENTRAINED, MAX. 4" SLUMP (MNDOT 2301)
7-INCH AGGREGATE BASE (MNDOT 313B, CLASS 5)
COMPACTED SUBSOIL
 - CONCRETE JOINTS
 - JOINTING TO BE DESIGNED AND INSTALLED BY CONTRACTOR.
 - INSTALL JOINTS ACROSS SIDEWALKS, CURBS AND PAVEMENTS, PAYING ATTENTION TO SPACING OF EXPANSION JOINTS. JOINT SPACING SHALL BE AS FOLLOWS:
 - TOOLED JOINTS: DIVIDE PANELS INTO NOMINALLY EQUAL AREAS.
 - EXPANSION JOINTS: SIDEWALKS - 40 FEET MAX.; CURBS - 60 FEET MAX.; PAVEMENT: 80 FEET MAX.; ADJACENT TO BUILDING FOUNDATIONS AND STOOPS.
 - CONTRACTION JOINTS: SIDEWALKS - 8 TO 10 FEET; CURBS AND APRONS - 12 TO 15 FEET.
- RELAY PAVEMENT WALK TO MATCH NEW CURB LINE.

LEGEND

SYMBOL	DESCRIPTION	ESTIMATED QUANTITY
	INLET PROTECTION	2 EACH
	SILT FENCE	90 FEET
	TIP OUT CURB	
	PAVEMENT SAWCUT	

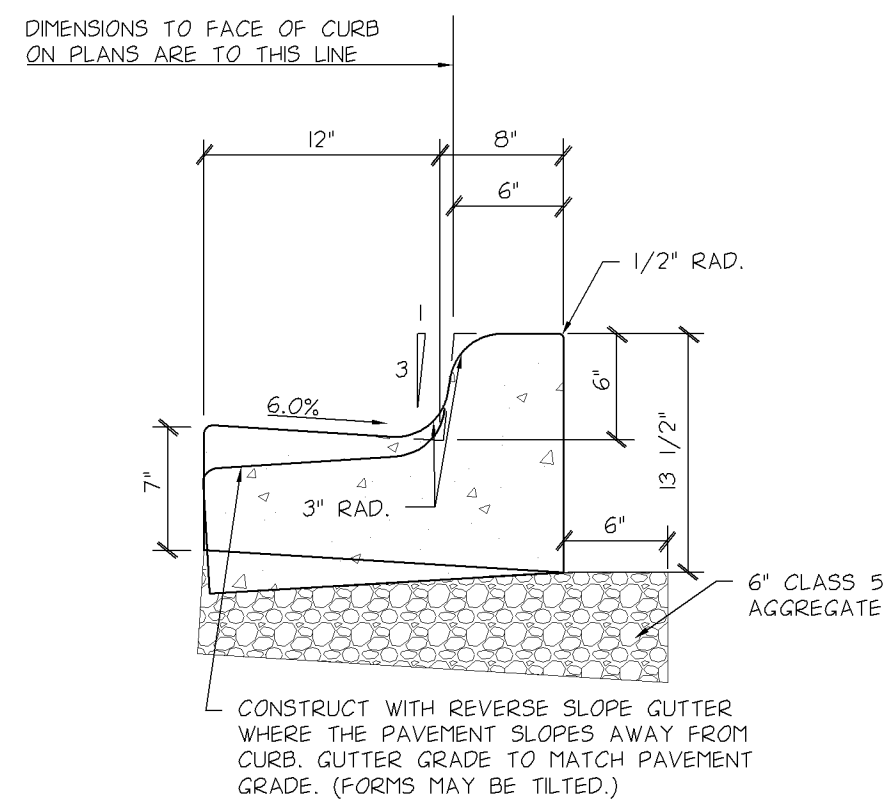
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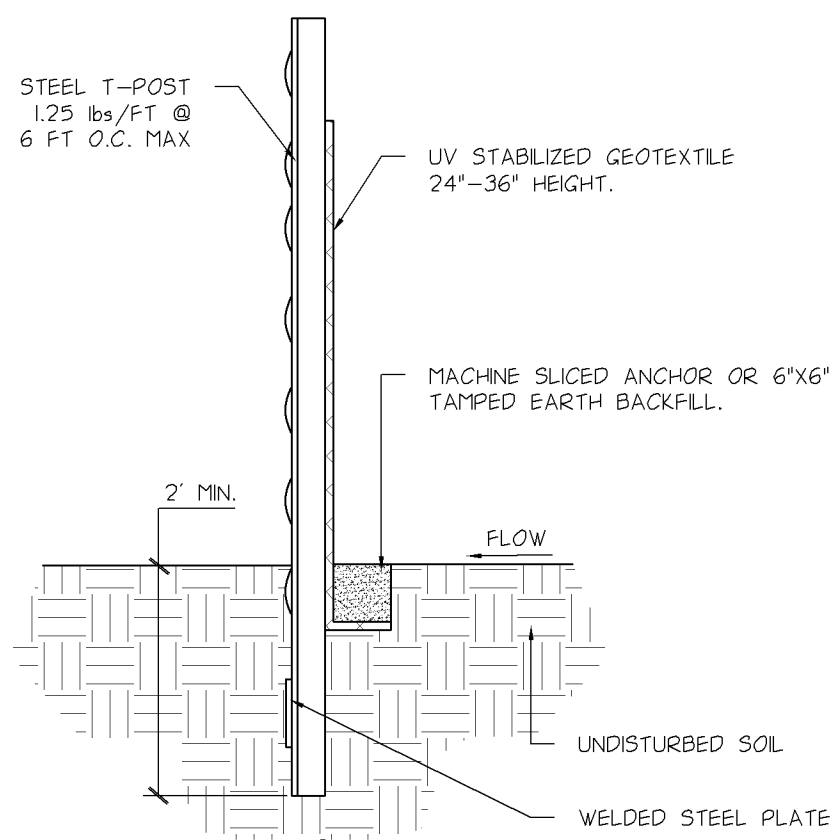
DRAWN BY	JOB	STATE	CITY
PROT	ISSUED	MN	BLOOMINGTON
REVIEWED BY	DATE	REVIEWED BY	DATE
CNC	08-22-17	CNC	08-22-17
DATE ISSUED	DATE	DATE	DATE
08-23-17	08-23-17	08-23-17	08-23-17

SHEET NO.	STATE	CITY	PROJECT NO.
C3.1	MN	BLOOMINGTON	C301MCD208.DWG
FILE NAME:	PROJECT NO.	PROJECT NO.	PROJECT NO.
C301MCD208.DWG	MCD12208	MCD12208	MCD12208



B612 CONCRETE CURB AND GUTTER

NO SCALE

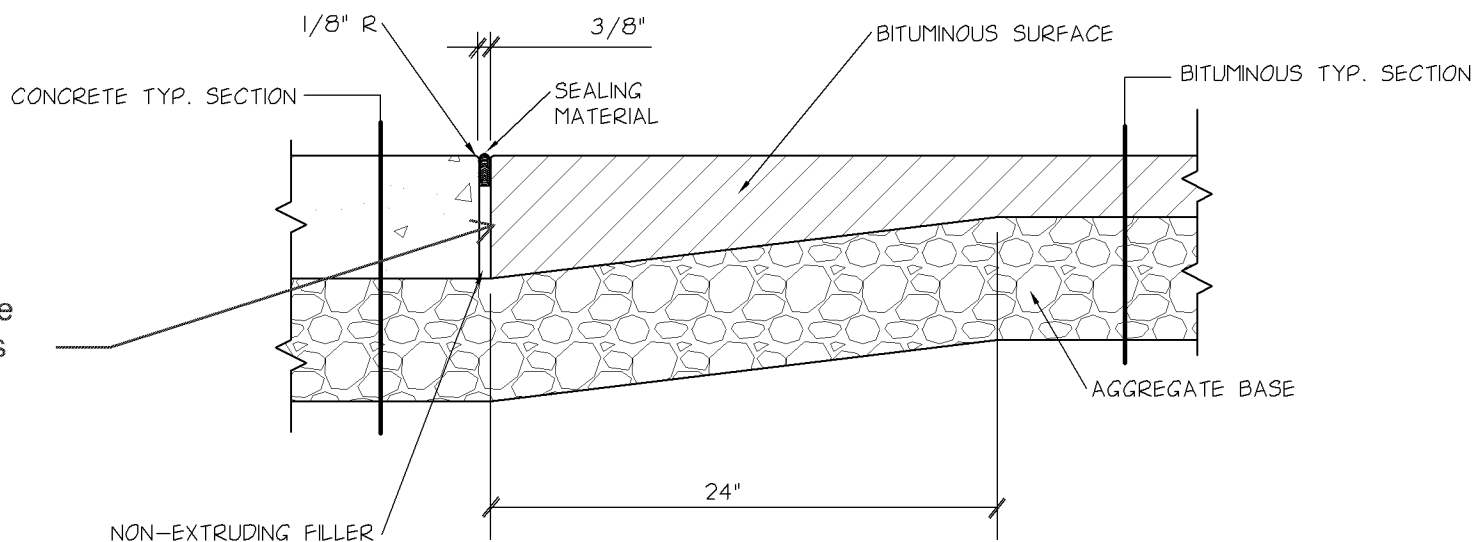


NOTES:

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

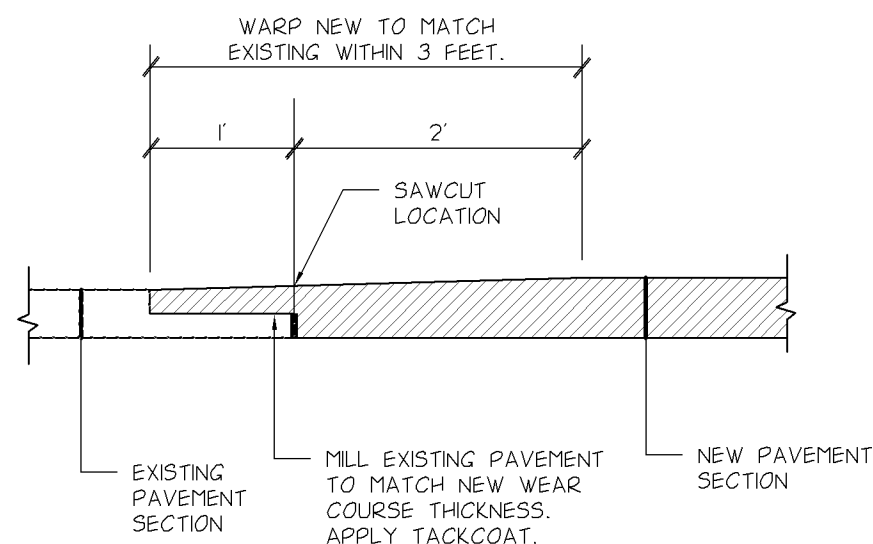
NO SCALE



How does someone know how thick this end is?

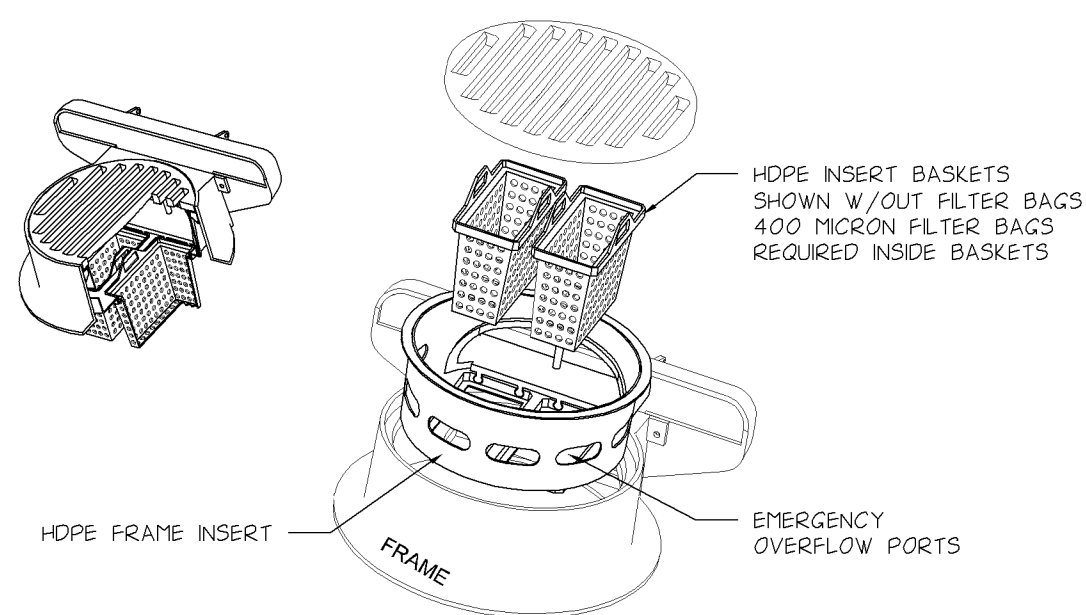
THICKENED BITUMINOUS EDGE AND CONCRETE SURFACE

NO SCALE



ASPHALT PAVEMENT TRANSITION

NO SCALE

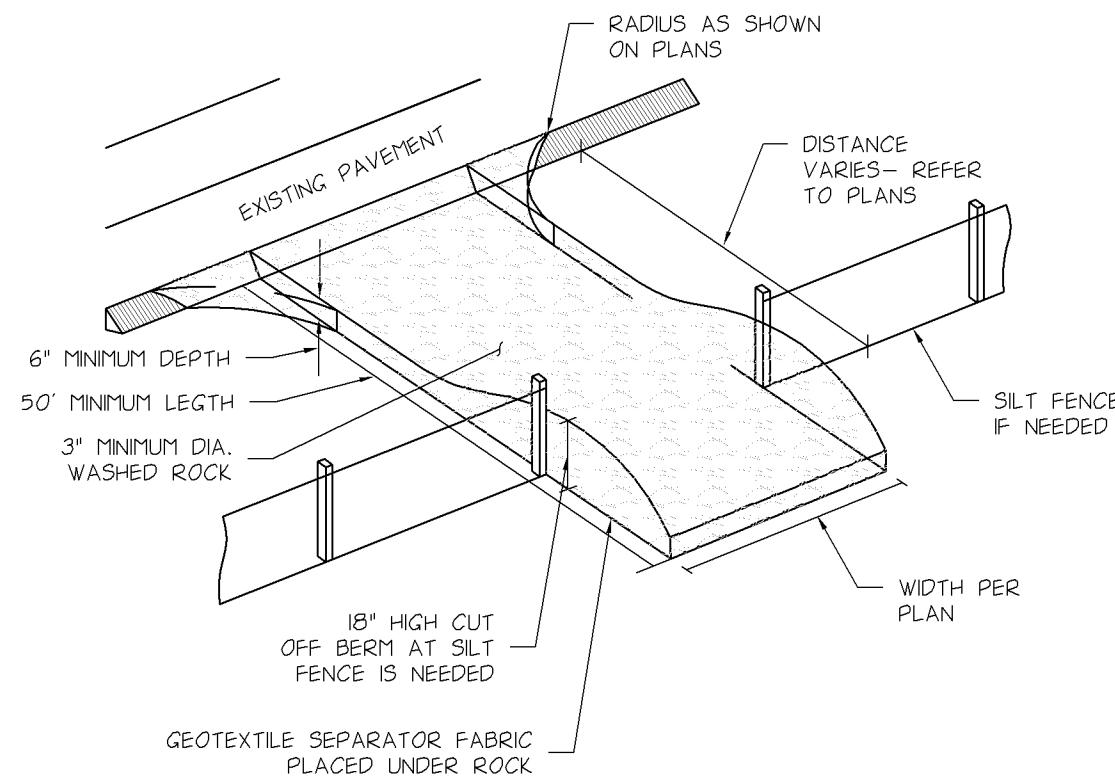


- MEETS MN SPECIFICATION 389LF "STORM DRAIN INLET PROTECTION - FILTER BAG INSERT"
- DESIGNED FOR NEENAH R-3250-A OR R-3250-I (MNDOT 801) FRAME CASTING

INFRASAFE - 27" DEBRIS COLLECTION DEVICE
AS MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS
ALTERNATIVE ALLOWED AS APPROVED BY PERMITTING AUTHORITIES

INLET PROTECTION

NO SCALE



VEHICLE TRACKING PAD

NO SCALE

[illegible]