



FINAL ENGINEERING PLANS

FOR

McDONALD'S – ARLINGTON HEIGHTS, IL

AT

45 EAST GOLF ROAD

VILLAGE OF ARLINGTON HEIGHTS

COOK COUNTY, ILLINOIS

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NOTE: THE DESIGNS CONTAINED IN THE ABOVE PLANS AND SUPPORTING DOCUMENTS WERE PREPARED WITH THE UNDERSTANDING THAT THEY WOULD BE USED AS A WHOLE. PLAN SET, EACH CONSTRUCTION DISCIPLINE IS TO USE ALL THE PLANS AND SUPPORTING DOCUMENTS TOGETHER AS A WHOLE AND NOT AS SEPARATE DOCUMENTS. EACH CONTRACTOR IS TO BECOME COMPLETELY FAMILIAR WITH THE WHOLE PLAN SET AND THE EXISTING SITE CONDITIONS. SHOULD ANYTHING WITH ALL THESE PLANS AND SUPPORTING DOCUMENTS BE INCONSISTENT WITH THE SITE CONDITIONS THEN THE CONTRACTOR IS TO CONTACT THE ENGINEER IMMEDIATELY BEFORE ANY CONSTRUCTION IS STARTED.



| LEGEND | | |
|----------|---------------------------------|----------|
| EXISTING | DESCRIPTION | PROPOSED |
| | CATCH BASIN | |
| | INLET | |
| | STORM MANHOLE | |
| | SANITARY MANHOLE | |
| | VALVE VAULT | |
| | FIRE HYDRANT | |
| | FLARED END SECTION | |
| | ELECTRICAL POWER POLE | |
| | OVERHEAD TRAFFIC SIGNAL | |
| | TRAFFIC SIGNAL MANHOLE | |
| | OVERHEAD ELECTRIC WIRES | |
| | TRANSFORMER PAD | |
| | TELEPHONE PEDESTAL | |
| | TELEPHONE MANHOLE | |
| | CABLE TELEVISION PEDESTAL | |
| | COMMONWEALTH EDISON MANHOLE | |
| | B/BOX | |
| | LIGHT POLE | |
| | SIGN | |
| | BOLLARD POLE | |
| | GAS MARKER | |
| | ELECTRIC MARKER | |
| | TELEPHONE MARKER | |
| | WATER MAIN | |
| | GAS MAIN | |
| | ELECTRIC LINE | |
| | TELEPHONE LINE | |
| | CABLE TV LINE | |
| | SANITARY SEWER | |
| | STORM SEWER | |
| | GUY POLE | |
| | CONIFEROUS TREE W/DIAMETER | |
| | DECIDUOUS TREE W/DIAMETER | |
| | WOOD FENCE | |
| | CHAIN LINK FENCE | |
| | METAL GUARDRAIL | |
| | CONCRETE SURFACE | |
| | CONTOUR LINE | |
| | FINISHED FLOOR ELEVATION | |
| | PAVEMENT ELEVATION | |
| | MATCH EXISTING ELEVATION | |
| | GROUND ELEVATION | |
| | TOP OF WALK ELEVATION | |
| | TOP OF RETAINING WALL ELEVATION | |
| | FLOW LINE ELEVATION | |
| | TOP OF CURB ELEVATION | |
| | RIM ELEVATION | |
| | DOWNSPOUT LOCATION | |
| | PERVIOUS AREA SLOPE DIRECTION | |
| | PAVEMENT SLOPE DIRECTION | |
| | OVERLAND OVERFLOW DIRECTION | |
| | INLET PROTECTION | |
| | INLET BASKET FILTER | |

| BENCHMARK | |
|--|--|
| REFERENCE BENCHMARK | |
| NATIONAL GEODETIC SURVEY MONUMENT #DM3900 (NAVD 88) | |
| SURVEY DISK LOCATED ON GOLF ROAD IN TOP OF SOUTH END OF EAST ABUTMENT OF BRIDGE OVER SALT CREEK | |
| ELEVATION = 696.09 | |
| SITE BENCHMARK #1 | |
| CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT WEST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD | |
| ELEVATION = 702.30 | |
| SITE BENCHMARK #2 | |
| CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT EAST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD | |
| ELEVATION = 702.86 | |

STATE OF ILLINOIS) SS
COUNTY OF KANE)

I, JEFFREY C. MILLER, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE CIVIL ENGINEERING PLANS, NOT THE SUPPORTING DOCUMENTS, AS LISTED IN THE INDEX, HAVE BEEN PREPARED BY WATERMARK ENGINEERING RESOURCES, LTD. UNDER MY PERSONAL DIRECTION. THESE PLANS ARE INTENDED TO BE USED AS AN INTEGRAL PART OF THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATE:

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 62-045858.
MY LICENSE EXPIRES ON 11-30-19.

UNLESS THIS DOCUMENT BEARS ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE DESIGN ENGINEER, IT IS NOT A VALID DOCUMENT.

ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184.002989

DATE
08/05/19

REVISIONS
PEE ARLINGTON HEIGHTS DEPT. REVIEW

NO.
1

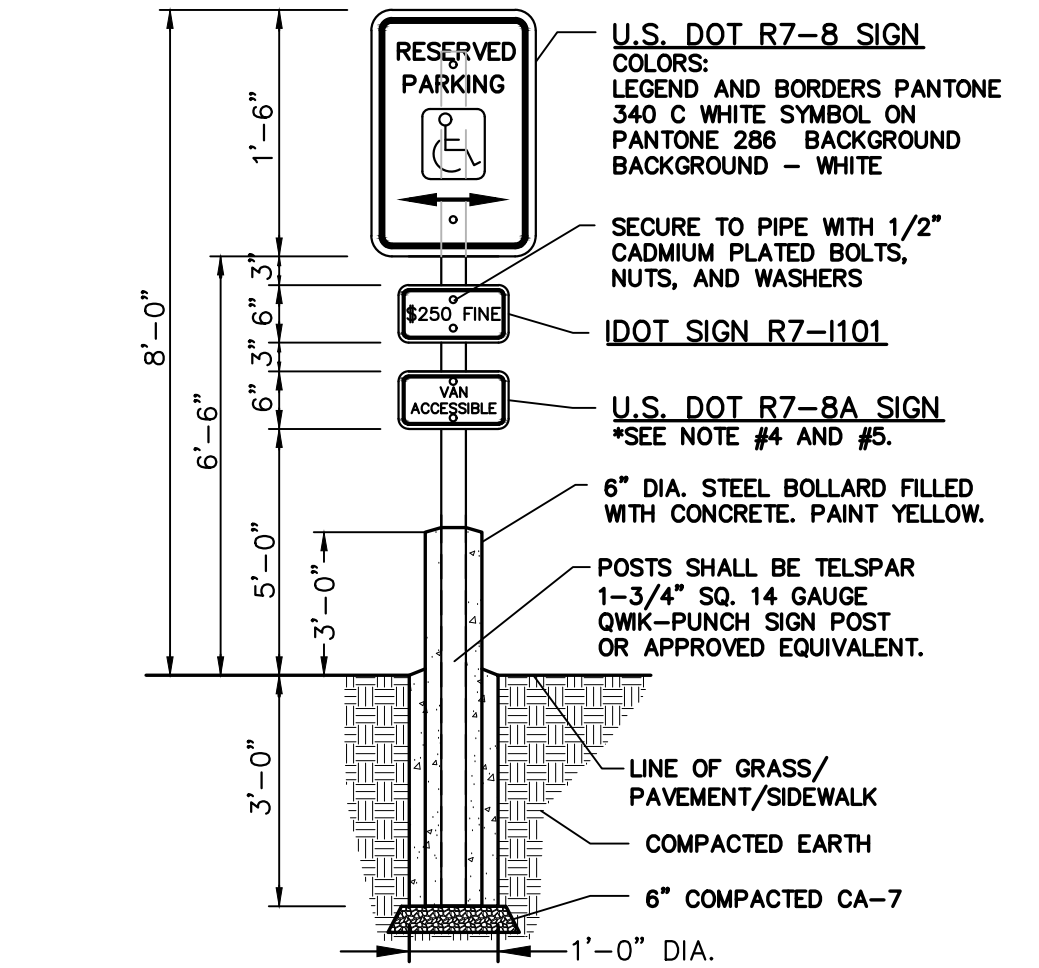
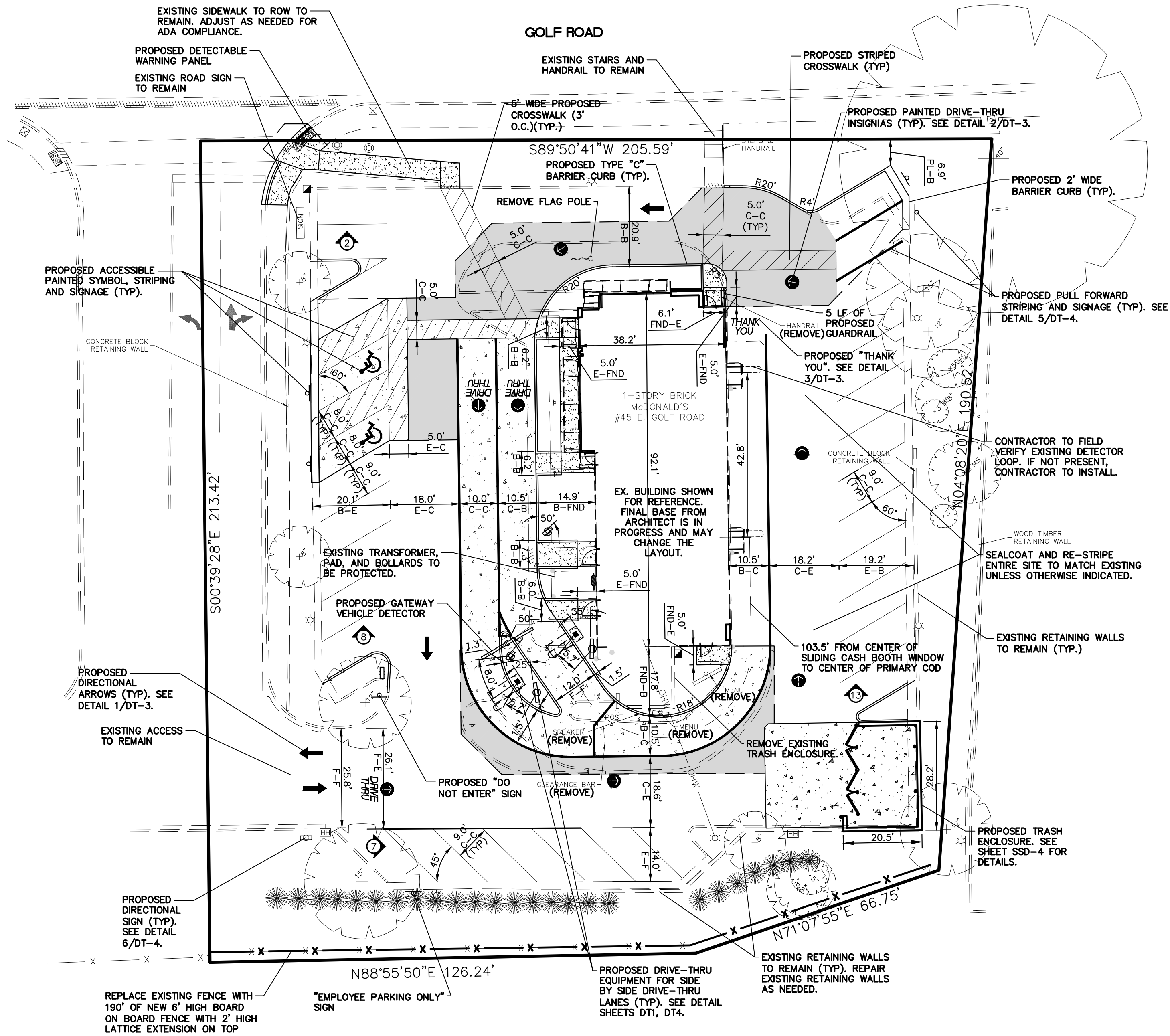
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McDonald's
711 Jorie Blvd., 3rd Floor
Oak Brook, IL 60523
McDONALD'S – ARLINGTON HEIGHTS, IL
45 E. Golf Road
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Prepared By:
Watermark Engineering
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CHECKED BY: J. MILLER
DESIGN BY: H. WITTENKELLER
DRAWN BY: K. SACK
DATE: AUGUST 2, 2019
SCALE: NONE
PROJECT NO.: 18-108

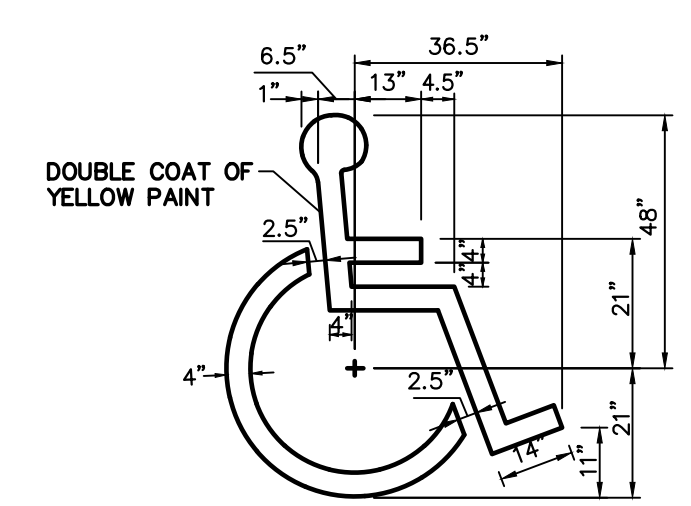
C-1
LC #12-1434

COVER SHEET



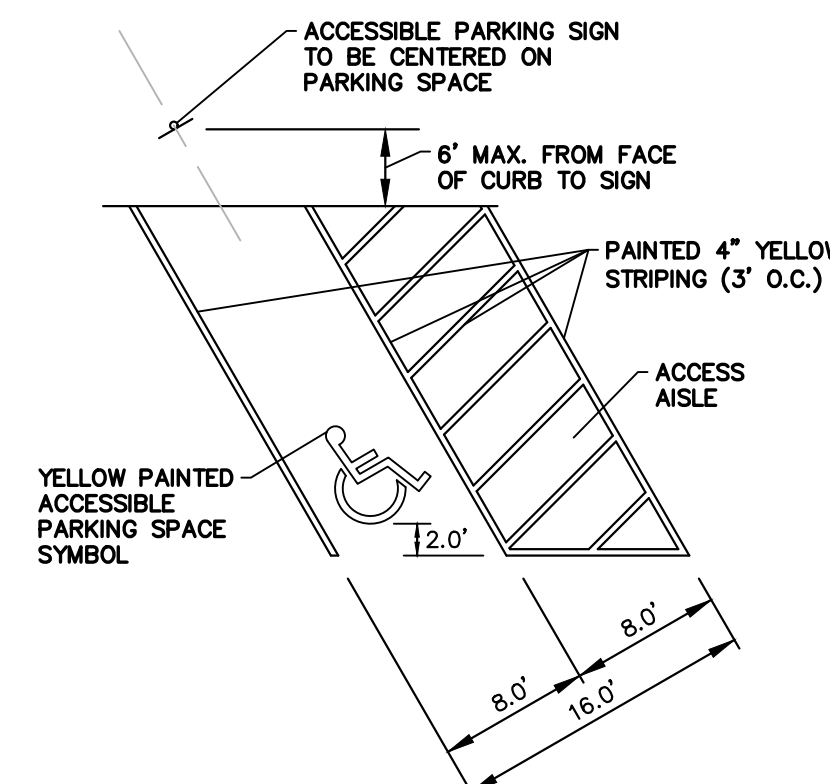
1. WHERE A FINE IN EXCESS OF \$250 IS ESTABLISHED BY A MUNICIPALITY BY ORDINANCE IN ACCORDANCE WITH THE STATUTES, THE ACTUAL AMOUNT OF THE FINE SHOULD BE SHOWN.
2. THIS PLATE MAY BE MOUNTED DIRECTLY BELOW THE R7-8 SIGN OR COMBINED WITH THAT SIGN ON A SINGLE 12 INCH BY 24 INCH PANEL.
3. ON THE RESERVED PARKING SIGN, THE ARROW SHOULD BE OMITTED WHERE THERE IS ONLY ONE SPACE. THE ARROW MAY ALSO BE MADE TO POINT IN ONLY ONE DIRECTION. THE ARROW MAY ALSO BE REPLACED BY "TIME" SUCH AS 9 AM-5 PM WHERE A PART TIME RESTRICTION EXISTS.
4. ONE IN EVERY SIX ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 8 FEET WIDE MINIMUM AND SHALL BE DESIGNATED "VAN ACCESSIBLE".
5. THE LOWEST BOTTOM EDGE OF THE LOWEST REQUIRED SIGN SHALL BE MOUNTED AT 60" ABOVE FINISHED GRADE.
6. COLORS FOR BOTH DOT SIGN R7-101 AND USDOT R7-8A, LEGEND AND BORDERS-GREEN NON-REFLECTORIZED (PANTONE 340C) BACKGROUND-WHITE REFLECTORIZED.

ACCESSIBLE PARKING SPACE
BOLLARD SIGN DETAIL



ACCESSIBLE PARKING SPACE SYMBOL

1. SYMBOL IS CENTERED ON WIDTH OF PARKING STALL AND 2' FROM THE END OF THE STALL.



ACCESSIBLE PARKING SPACE DETAIL

| DIMENSION LEGEND | | | |
|------------------|--------------------|--|--|
| F = FACE | FNC = FENCE | | |
| FND = FOUNDATION | R = RADIUS | | |
| B = BACK | C = CENTER | | |
| E = EDGE | PL = PROPERTY LINE | | |

GENERAL NOTES:
1. THESE PLANS ARE BASED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY (SURVEY PROJECT #18-0411 DATED 01/16/19) PREPARED BY: COMPASS SURVEYING LTD 2631 GINGER WOODS PARKWAY, STE 100, AURORA, IL 60502 (630) 820-9100
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.

| ON SITE PARKING DATA | |
|-----------------------------|----|
| EX. REGULAR SPACES | 35 |
| EX. ADA ACCESSIBLE SPACES | 2 |
| EX. TOTAL SPACES | 37 |
| PROP. REGULAR SPACES | 28 |
| PROP. ADA ACCESSIBLE SPACES | 2 |
| PROP. TOTAL SPACES | 30 |

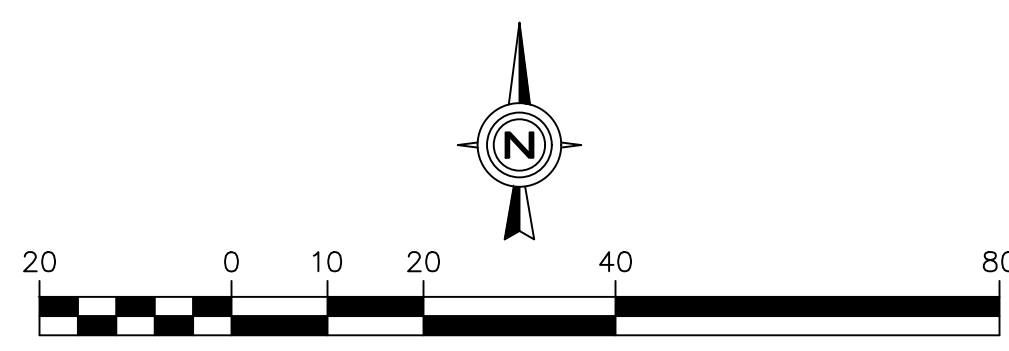
| SITE DATA | |
|-----------|--------------------------|
| LOT AREA | = 41,054 S.F. (0.94 AC.) |

- SITE PLAN NOTES:
1. ALL RADIUS DIMENSIONS ARE TO BACK OF CURB.
2. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. ALL STRIPING TO BE DOUBLE COATED 4" YELLOW PAINT UNLESS OTHERWISE NOTED.
4. WHERE PEDESTRIANS HAVE TO CROSS A TAPERING RAMP OR CURB RAMP THE FACE AND TOP OF CURB ARE TO BE PAINTED USING YELLOW, SLIP RESISTANT PAINT.

PAVEMENT LEGEND

| | |
|--------------------------------------|---|
| SIDEWALK | 5" P.C.C. (SIX BAG MIX) 4" BASE COURSE, CRUSHED STONE OR LESTONE (CA-6) COMPACTED SUB-BASE |
| STANDARD DUTY | 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C" IL-9.5, N50; PG 64-22 2 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19, N50; PG 64-22 8" BASE COURSE, CRUSHED STONE OR LESTONE (CA-6) 4 OZ WOVEN FABRIC (CLAY SUB-BASE) OR 8 OZ NON-WOVEN FABRIC (SANDY/GRANULAR SUB-BASE) COMPACTED SUB-BASE |
| HEAVY DUTY | 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C" IL-9.5, N50; PG 64-22 3" HOT-MIX ASPHALT BINDER COURSE, IL-19, N50; PG 64-22 10" BASE COURSE, CRUSHED STONE OR LESTONE (CA-6) 4 OZ WOVEN FABRIC (CLAY SUB-BASE) OR 8 OZ NON-WOVEN FABRIC (SANDY/GRANULAR SUB-BASE) COMPACTED SUB-BASE |
| CONCRETE (DRIVE-THRU) | 6" P.C. CONCRETE WITH 6"x6" NO. 10 WELDED WIRE MESH TO BE FLAT STOCK ONLY 4" BASE COURSE, CRUSHED STONE OR LESTONE (CA-6) 4 OZ WOVEN FABRIC (CLAY SUB-BASE) OR 8 OZ NON-WOVEN FABRIC (SANDY/GRANULAR SUB-BASE) COMPACTED SUB-BASE |
| CONCRETE (DRIVEWAY AND TRASH APRONS) | 8" P.C. CONCRETE WITH 6"x6" NO. 10 WELDED WIRE MESH TO BE FLAT STOCK ONLY 4" BASE COURSE, CRUSHED STONE OR LESTONE (CA-6) 4 OZ WOVEN FABRIC (CLAY SUB-BASE) OR 8 OZ NON-WOVEN FABRIC (SANDY/GRANULAR SUB-BASE) COMPACTED SUB-BASE |

NOTES:
1. REFERENCE I.D.O.T. STANDARD SPECIFICATIONS (LATEST EDITION) SECTION 406 FOR BINDER & SURFACE COURSES AND SECTION 351 FOR AGGREGATE BASE COURSE.
2. THE APPLICATION RATES FOR THE PRIME COAT AND TACK COAT ARE TO BE 0.30 AND 0.10 GALLONS PER SQUARE YARD, RESPECTIVELY.
3. SEE PROJECT SPECIFICATIONS FOR SUB-BASE AND BASE COURSE COMPACTION.
4. ALL CONCRETE FLATWORK TO INCLUDE A JOINTING PATTERN SUBMITTAL TO THE CONSTRUCTION MANAGER. CONTRACTOR TO STAY AS CLOSE TO 9'x9' SQUARE PANELS IN LARGE CONCRETE FLATWORK AREAS AS POSSIBLE.
5. FOR SIDEWALKS, PROVIDE TOOLED JOINTS AT 5' O.C., CONTRACTION JOINTS AT 15' O.C., EXPANSION JOINTS AT 45' O.C.
6. PROVIDE AN EXPANSION JOINT ADJACENT TO ALL STRUCTURES. THESE JOINTS SHOULD BE SEALED WITH A TOOL-FINISHED SILICONE SEALANT PER I.D.O.T. STANDARD.



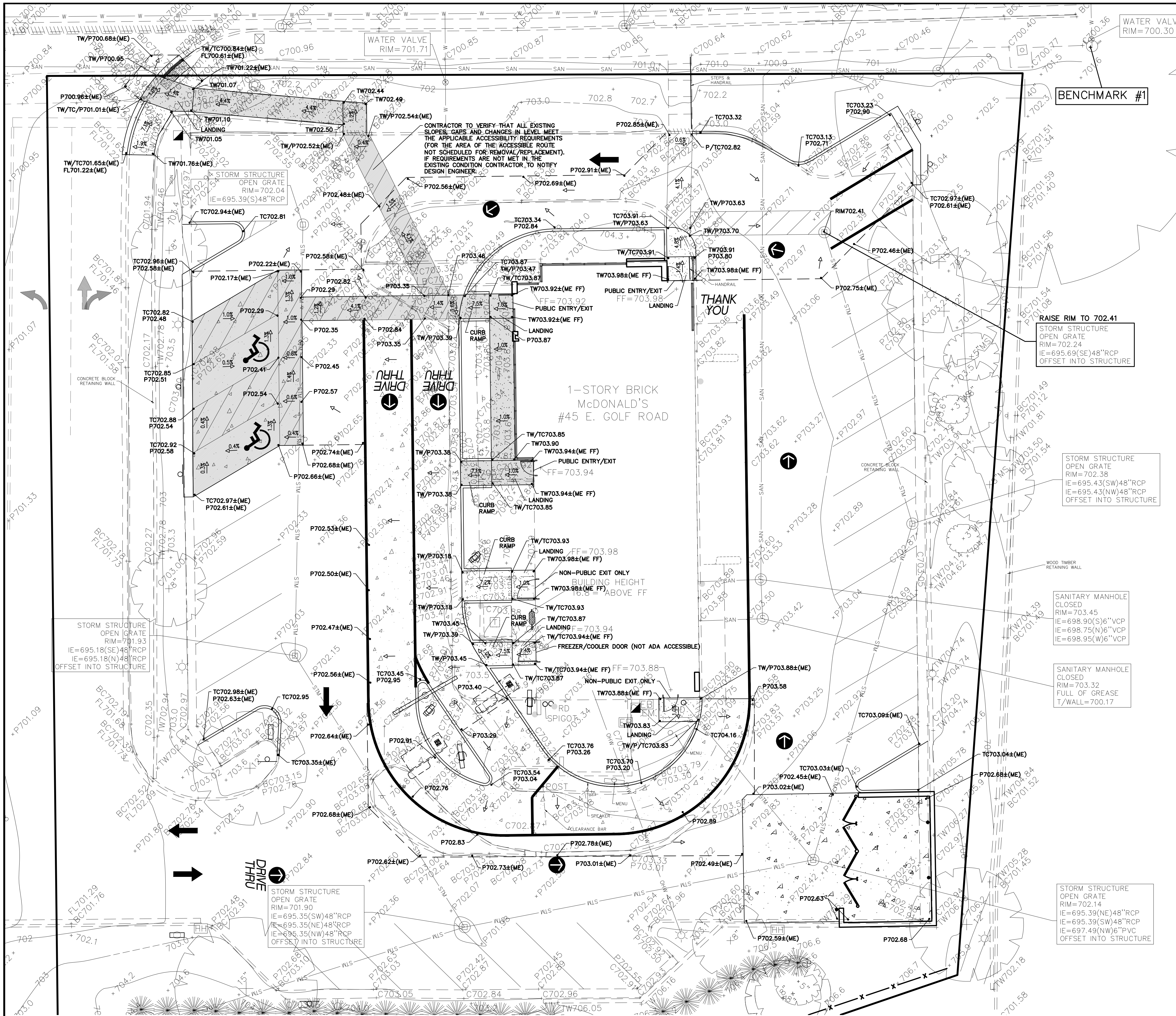
GEOMETRIC PLAN

| | | | | |
|-----------------------|----------------------------|----------------------|-----------------|---------------------|
| CHECKED BY: J. MILLER | DESIGN BY: H. WITTENKELLER | DATE: AUGUST 2, 2019 | SCALE: 1" = 20' | PROJECT NO.: 18-108 |
| DRAWN BY: K. SACK | | | | |

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C-2
LC #12-1434



GENERAL NOTES:
1. THESE PLANS ARE BASED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY (SURVEY PROJECT #18-0411 DATED 01/16/19) PREPARED BY: COMPASS SURVEYING LTD 2631 GINGER WOODS PARKWAY, STE 100, AURORA, IL 60502 (630) 820-9100
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.

REFERENCE BENCHMARK
NATIONAL GEODETIC SURVEY MONUMENT #DM3900 (NAVD 88) SURVEY DISK LOCATED ON GOLF ROAD IN TOP OF SOUTH END OF EAST ABUTMENT OF BRIDGE OVER SALT CREEK
ELEVATION = 696.09

SITE BENCHMARK #1
CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT WEST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD
ELEVATION = 702.30

SITE BENCHMARK #2
CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT EAST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD
ELEVATION = 702.86

GRADING PLAN NOTES:
1. UNLESS OTHERWISE SPECIFIED, TOP OF CURB (TC) AND/OR TOP OF WALK ELEVATIONS ARE 0.5' HIGHER THAN THE ADJACENT FLOW LINE (FL) OR PAVEMENT (P) ELEVATIONS.
2. IN ALL LOCATIONS WHERE ELEVATIONS ARE SHOWN AS ±, THE ELEVATION HAS BEEN DETERMINED BASED ON INTERPOLATED GRADES FROM THE SURVEY. CONTRACTOR IS TO VERIFY THESE GRADES PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS WITHIN THE PROXIMITY OF THESE INTERPOLATED GRADES AND REPORT THEM TO THE DESIGN ENGINEER FOR VERIFICATION OF PROPOSED SLOPES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS. DESIGN ENGINEER IS NOT RESPONSIBLE FOR SLOPES OF PROPOSED IMPROVEMENTS BASED ON THESE ± GRADES WITHOUT CONFIRMATION OF EXISTING ELEVATIONS AT TIME OF CONSTRUCTION.
3. PAVING, SIDEWALK, AND CURBING IS NOT TO BE INSTALLED IN SUCH A WAY THAT IT WILL BLOCK THE FLOW OF WATER AWAY FROM THE BUILDING INCLUDING BUT NOT LIMITED TO WEEP HOLES, WICKS, DRAINAGE SCOPERS OR PIPES, AND LANDSCAPING.

"AMERICANS WITH DISABILITIES ACT" (ADA) MINIMAL REQUIREMENTS:
1. GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO ARCHITECT/ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION.
2. ACCESSIBLE ROUTES ON AN ACCESSIBLE SITE AND FOR ANY NEW SITE IMPROVEMENTS SHALL BE PROVIDED TO SERVE ALL ACCESSIBLE SPACES OR ELEMENTS.
3. THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER CODE IS 36".
4. EACH ACCESSIBLE PARKING SPACE IS TO BE:
4.1. CAR:
A MINIMUM OF 192" WIDE, CONSISTING OF A 96" WIDE ACCESS AISLE AND A 96" WIDE PARKING SPACE, UNLESS OTHERWISE NOTED. (SEE DETAIL). THE ACCESS AISLE SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE. SEE DETAIL FOR REQUIRED DEPTH.
4.2. VAN:
A MINIMUM OF 192" WIDE, CONSISTING OF A 96" WIDE ACCESS AISLE AND A 96" WIDE PARKING SPACE, UNLESS OTHERWISE NOTED (SEE DETAIL). WHEN VAN ACCESSIBLE PARKING SPACES ARE ANGLED, THE ACCESS AISLE SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE. SEE DETAIL FOR REQUIRED DEPTH.
5. ACCESSIBLE PARKING SPACES ARE TO BE LOCATED AS CLOSE TO THE BUILDING ENTRANCE AS POSSIBLE AND SHALL BE IDENTIFIED WITH A SIGN.
6. RAMP MUST NOT EXTEND OUT FROM THE CURB INTO THE ACCESS AISLE OF ANY ACCESSIBLE PARKING SPACE.
7. TWO PARKING SPACES MAY NOT SHARE AN ACCESS AISLE.
8. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM. (SEE DETAIL)
9. ALL ADA PARKING STALLS, ACCESS AISLES AND CROSSWALKS SHALL BE STRIPED USING 4" WIDE DOUBLE LAYER OF HIGH QUALITY YELLOW PAINT, UNLESS OTHERWISE NOTED.
10. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2.00%) IN ANY DIRECTION.
11. EACH ACCESSIBLE PARKING SPACE SHALL HAVE AN IDENTIFICATION SIGN (SEE DETAIL).
RAMP:
12. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5.00%) IS A RAMP AND SHALL COMPLY WITH THE RAMP REQUIREMENTS.
13. AN ACCESSIBLE ROUTE MAY CROSS OPEN PAVEMENT OR FOLLOW A RAMP AS REQUIRED BY SITE-SPECIFIC CONDITIONS. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE ACROSS OPEN PAVEMENT MUST NOT EXCEED 1:20 (5.00%), WITH A CROSS SLOPE NOT EXCEEDING 1:50 (2.00%). SLOPES EXCEEDING 1:20 (5.00%) BUT LESS THAN 1:12 (8.33%) CONSTITUTE RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS, RISE AND RUN LIMITS, ETC.) AS DETAILED ON THE CIVIL AND ARCHITECTURAL PLANS. NO RAMP SHALL HAVE A RUNNING SLOPE EXCEEDING 1:12 (8.33%), NOR HAVE A CROSS SLOPE EXCEEDING 1:50 (2.00%).
14. THE GENERAL CONTRACTOR/CONTRACTOR SHALL MEASURE THE SUBGRADE AND ACROSS FORMS PRIOR TO INSTALLATION OF ASPHALT OR CONCRETE IMPROVEMENTS TO ASSURE THE FINAL IMPROVEMENTS WILL MEET THE MINIMAL ADA REQUIREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CIVIL ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
CURB RAMP:
15. A CURB RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
16. CURB RAMP HAVE A MAXIMUM SLOPE OF 1:12 (8.33%) AND DO NOT REQUIRE HANDRAILS.
17. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS, OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:12 (8.33%).

| | |
|---|----------------------------|
| DATE | 08/05/19 |
| REVISIONS | NO REVISIONS |
| NO. | 1 |
| Prepared For: | |
| McDonald's 711 Jorie Blvd., 3rd Floor Oak Brook, IL 60523 McDONALD'S - ARLINGTON HEIGHTS, IL 45 E. Golf Road Arlington Heights, Illinois | |
| Prepared By: | |
| Watermark Engineering 2631 Ginger Woods Parkway, Suite 100, Aurora, IL 60502 phone 630-375-1800 fax 630-228-9600 www.watermark-engineering.com | |
| CHECKED BY: J. MILLER | DESIGN BY: H. WITTENKELLER |
| DRAWN BY: K. SACK | DATE: JUNE 13, 2019 |
| SCALE: 1" = 10' | PROJECT NO.: 18-108 |
| C-3 | |
| LC #12-1434 | |

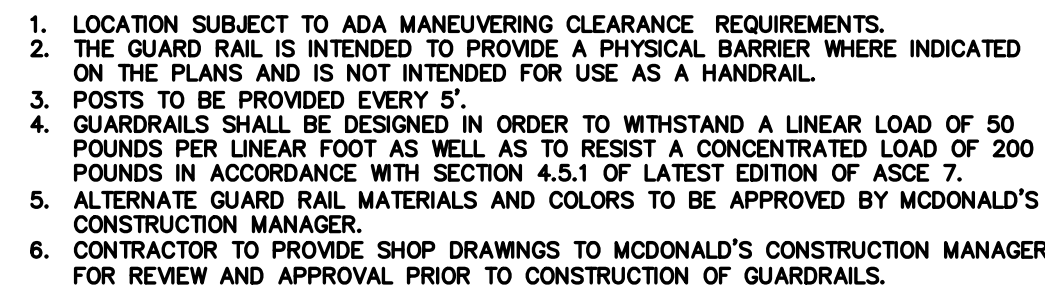
ACCESSIBLE ROUTE GRADES - PLAN VIEW SCALE: 1" = 10' = A.D.A. ACCESSIBLE ROUTE

ACCESSIBLE ROUTE GRADES AND DETAILS

- CONTRACTOR IS TO FOLLOW ALL ORDINANCES AND REQUIREMENTS OF THE STATE, COMMUNITY, LOCAL DISTRICTS AND THE ILLINOIS ACCESSIBILITY CODE (IAC). ALL PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS WELL AS THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" CURRENT EDITIONS.
2. THE CONTRACTOR SHALL INDEMNIFY WATERMARK ENGINEERING RESOURCES, LTD. (THE DESIGN ENGINEER), ARCHITECT AND OWNER, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONDUCTING WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS DEVELOPMENT.
3. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS THAT ARE REQUIRED BY THE LOCAL AGENCIES.
4. PRIOR TO BID AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL INSPECT THE SITE TO VERIFY THAT THERE ARE NO DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS AT THE SITE. IF ANY DISCREPANCIES ARE FOUND, AT ANY TIME BEFORE OR DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY (BEFORE ANY ADDITIONAL IMPROVEMENTS ARE INSTALLED) IN ORDER TO OBTAIN WRITTEN CONFIRMATION BY THE DESIGN ENGINEER AS TO ANY CORRECTIONS THAT MAY NEED TO BE MADE TO THE PLANS.
5. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION, AND ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION 2 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE APPROPRIATE CONSTRUCTION INSPECTIONS.
7. THE MUNICIPALITY SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE IMPROVEMENTS.
8. PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS, THE CONTRACTOR MUST CALL J.U.L.I.E. FOR THE LOCATION AND STAKING OF EXISTING UNDERGROUND UTILITIES (GAS, ELECTRIC, TELEPHONE) AT 1-800-892-0123, 48 HOURS PRIOR TO DIGGING.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS PER THE MUNICIPALITY AND/OR ANY OTHER AGENCY REQUIREMENTS. ANY CHANGES TO THE DRAWINGS MUST BE REPORTED TO THE DESIGN ENGINEER BEFORE WORK PROGRESSES.
10. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE MUNICIPALITY.
11. ALL QUANTITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE VERIFIED PRIOR TO CONSTRUCTION. IF DISCREPANCIES OCCUR, THE CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER IMMEDIATELY AND NO WORK IS TO BE DONE UNTIL APPROVED BY THE DESIGN ENGINEER.
12. ANY RESTORATION NEEDED BECAUSE OF CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
13. TRENCH BACKFILL MATERIAL, CRUSHED STONE OR LIMESTONE (CA-6) IS REQUIRED UNDER AND WITHIN TWO FEET (2') OF SIDEWALKS AND PAVED AREAS. THIS BACKFILL SHALL BE SIX INCH (6") LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.
14. CONTRACTOR IS TO PROVIDE ALL TEMPORARY SIGNAGE AS REQUIRED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND LOCAL MUNICIPALITIES.
15. ALL EXISTING DRAIN TILES THAT ARE ENCOUNTERED ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION OR DEROUTED TO THE PROPOSED STORM SEWER SYSTEM.
16. THE CONSTRUCTION OF EXISTING SIDEWALKS OR SIDEWAYS IS TO BE COMPLETED WITH FOUR INCH (4") MINIMUM TOPSOIL AND SALT TOLERANT SOD UNLESS OTHERWISE NOTED.
17. THE WATER SYSTEM MUST NOT BE SHUT DOWN WITHOUT CONSENT BY THE OWNER OF THE SYSTEM.
18. ALL FRAME ADJUSTMENTS SHALL BE MADE WITH PRE-CAST CONCRETE RINGS CONFORMING TO ASTM C-39 AND CANNOT EXCEED TWELVE INCHES (12").
19. FRAMES SHALL BE SET WITH EZ STIK (OR EQUAL) MATERIAL TO PREVENT LEAKAGE.
20. THE REINFORCED CONCRETE SECTIONS SHALL BE LAID IN MORTAR, SEALED WITH EXTERNAL SEALING BANDS, OR SEALED USING MASTIC JOINT SEALER. WHEN MASTIC JOINT SEALER IS USED, THE MATERIAL SHALL COMPLETELY FILL THE JOINT AFTER THE UNITS HAVE BEEN BROUGHT TOGETHER.
21. STEPS IN STRUCTURES SHALL BE MADE OF COPOLYMER POLYPROPYLENE PLASTIC WITH CONTINUOUS ONE HALF (1/2") GRADE SIXTY (60) STEEL REINFORCEMENT, STEP PSI-PP, OR EQUIVALENT, AND SHALL BE COMPLETED WITH FOUR INCH (4") MINIMUM TOPSOIL AND SALT TOLERANT SOD UNLESS OTHERWISE NOTED.
22. STEPS TO BE SPACED SIXTEEN INCHES (16") ON-CENTER.
23. ALL INSTRUMENTS ARE TO BE PROPERLY CALIBRATED PRIOR TO CONSTRUCTION USE.
24. ALL PARKING LOT LIGHT POLES ARE TO BE CONSTRUCTED AT THE INTERSECTION OF PARKING LOT STRIPING OR IN LANDSCAPE AREAS WITH A MINIMUM OF 2' CLEARANCE BETWEEN THE BACK OF CURB AND THE EDGE OF THE PARKING LOT LIGHT BASE UNLESS OTHERWISE SPECIFIED.
25. GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO ARCHITECT/DESIGN ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION. THIS INCLUDES, BUT NOT LIMITED TO, TRANSITIONS TO EXISTING CONDITIONS.
26. CONSTRUCTION METHODS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
27. PAVING, SIDEWALK, AND CURBING IS NOT TO BE INSTALLED IN SUCH A WAY THAT IT WILL BLOCK THE FLOW OF WATER AWAY FROM THE BUILDING INCLUDING BUT NOT LIMITED TO WEEP HOLES, WICKS, DRAINAGE SCUPPERS OR PIPES, AND LANDSCAPE.

1. ALL PAVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING REFERENCES AS THEY APPLY: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION; MANUAL FOR STRUCTURAL DESIGN OF PORTLAND CEMENT CONCRETE PAVEMENT, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION; DESIGN MANUAL, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
2. ALL BASE COURSE AND SUB-BASE AREAS SHALL BE COMPACTED TO 95% STANDARD LASTORY DENSITY, PER D.O.T. SECTION 201. BEFORE THE BASE COURSE MATERIALS ARE INSTALLED, THE SUB-BASE SHALL BE PROPERLY ROLLED TO THE SATISFACTION OF THE ENGINEER, HIS AGENT, AND/OR THE SOILS ENGINEER. COMPACTION AND DENSITY TESTS SHALL BE TAKEN AT THE OWNER'S OPTION.
3. ALL CONCRETE TO BE MINIMUM 3500 PSI, SALT TOLERANT, 6 BAG MIX WITH A SPRAY ON SEALER.
4. EXPANSION AND CONTRACTION JOINTS SHALL BE TOOL FINISHED.
5. BINDER COURSE TO BE PLACED WHEN TEMPERATURE IS AT LEAST 40° AND RISING. SURFACE COURSE TO BE PLACED WHEN TEMPERATURE IS AT LEAST 45° AND RISING.
6. ALL PROPOSED PAVEMENT, SIDEWALKS, AND CURBS ARE TO BE CONSTRUCTED TO WITHIN A TOLERANCE OF 0.05' OF THE PROPOSED ELEVATIONS EXCEPT IN THE ACCESSIBLE STALLS OR ACCESSIBLE ROUTES.
7. PRIOR TO SEAL COATING, ALL ASPHALT AREAS ARE TO BE CLEAN AND DRY. ALL LOOSE MATERIALS ARE TO BE REMOVED. ALL GREASE TO BE REMOVED. ALL CRACKS ARE TO BE FILLED PER IDOT STANDARDS. ALL PAINTED STRIPING TO BE MODIFIED SHALL BE "BLACKED OUT" WITH BLACK PAINT (1 COAT MINIMUM, 2 COATS IF NECESSARY), ALLOWED TO THOROUGHLY DRY PER PAINT MANUFACTURER, PRIOR TO SEAL COATING. ALL AREAS THAT ARE ADJACENT TO THE SEAL COATED AREA ARE TO BE MASKED (I.E. SIDEWALKS, CONCRETE SURFACES, BRICK SURFACES, GUTTERS, CATCHBASINS/INLETS, ETC.) PRIOR TO SEAL COATING TO BE APPLIED. AIR TEMPERATURE BE 50° AND RISING. APPLICATION IS TO BE SUCH THAT ALL SURFACES OF THE ASPHALT BEING COATED IS THOROUGHLY COVERED IN ONE COAT. SPRAYING IS NOT ALLOWED. SEAL COATING SHOULD BE APPLIED BY SQUEEGEE OR BRUSHES. THE BITUMINOUS SEAL COATING MATERIAL SHOULD NOT BE ALLOWED TO ENTER STORM SEWERS AND SHOULD BE ALLOWED TO DRY AT LEAST 18 HOURS PRIOR TO VEHICULAR USE. CRACK FILLER AND SEAL COATING MATERIALS ARE TO BE FREE OF COAL TAR.

1. GEOTECHNICAL REPORTS AS PREPARED BY OWNER (OR REPRESENTATIVE) SHALL BE REFERRED TO PRIOR TO EARTH MOVING AND/OR UTILITY CONSTRUCTION.
2. UNSTABLE SOIL SHALL BE REMOVED OR STABILIZED.
3. CONTRACTOR IS TO MAINTAIN A POSITIVE DRAINAGE PATTERN AT THE END OF EACH DAY. CARE SHOULD BE TAKEN TO INSURE THAT DRAINAGE IS NOT REROUTED OR BLOCKED IN A WAY THAT MAY BE INJURIOUS TO ADJACENT LAND.
4. THE SUB-BASE BELOW STRUCTURES, PAVEMENTS OR NEW STRUCTURAL FILL SHALL BE PROOF ROLLED, IF SOIL RUTS, PUMPS, DEFLECTS EXCESSIVELY OR EXHIBITS EXCESSIVE MOVEMENT. THIS UNSTABLE SOIL SHALL BE UNDERCUT AND REPLACED WITH STRUCTURAL FILL OR DISCING AND DRYING TO NEAR OPTIMUM MOISTURE SO SOIL CAN BE PROPERLY COMPACTED. THIS PROCESS IS TO BE OBSERVED BY A GEOTECHNICAL ENGINEER.
5. ALL FILLS SHALL BE PLACED IN 8" LIFTS COMPACTED TO A MINIMUM OF 98% STANDARD LABORATORY DENSITY PER ASTM D698 UNDER AND WITHIN INFLUENCE OF THE BUILDING, A MINIMUM OF 95% STANDARD LABORATORY DENSITY PER ASTM D698 UNDER AND WITHIN THE INFLUENCE OF ALL OTHER IMPERVIOUS AREAS, AND A MINIMUM OF 90% STANDARD LABORATORY DENSITY PER ASTM D698 IN ALL LANDSCAPE AREAS.
6. EROSION CONTROL SHALL BE PROVIDED PRIOR TO ANY DISTURBANCES. SEE EROSION CONTROL PLANS FOR ADDITIONAL SPECIFICATIONS AND DETAILS.
7. PROVIDE TOPSOIL RESPREAD PER THE FOLLOWING UNLESS OTHERWISE NOTED:
 - a. 4" MINIMUM IN GRASS OR SOD AREAS.
 - b. 6" MINIMUM IN PLANTING AREAS.
 - c. 12" MINIMUM IN LANDSCAPE ISLANDS.
8. ALL TOPSOIL TO BE FRIABLE (NOT COHESIVE), WEED FREE, AND FREE OF ROCKS, LARGE ROOTS AND UNNATURAL DEBRIS.
9. ALL GRADING IS TO BE CONSTRUCTED TO WITHIN A TOLERANCE OF 0.10' OF THE PROPOSED ELEVATIONS. SEE PAVEMENT SPECIFICATIONS FOR PAVEMENT TOLERANCES.

Prepared For:

McDonald's
711 Jorie Blvd., 3rd Floor
Oak Brook, IL 60523
WALD'S - ARLINGTON HEIGHTS, IL
45 E. Golf Road
Arlington Heights, Illinois

Prepared By:

Watermark Engineering Resources, Ltd.
2831 Ginger Woods Parkway, Suite 100, Aurora, IL 60502
phone 630-375-1800 fax 630-236-9800 www.watermark-engineering.com

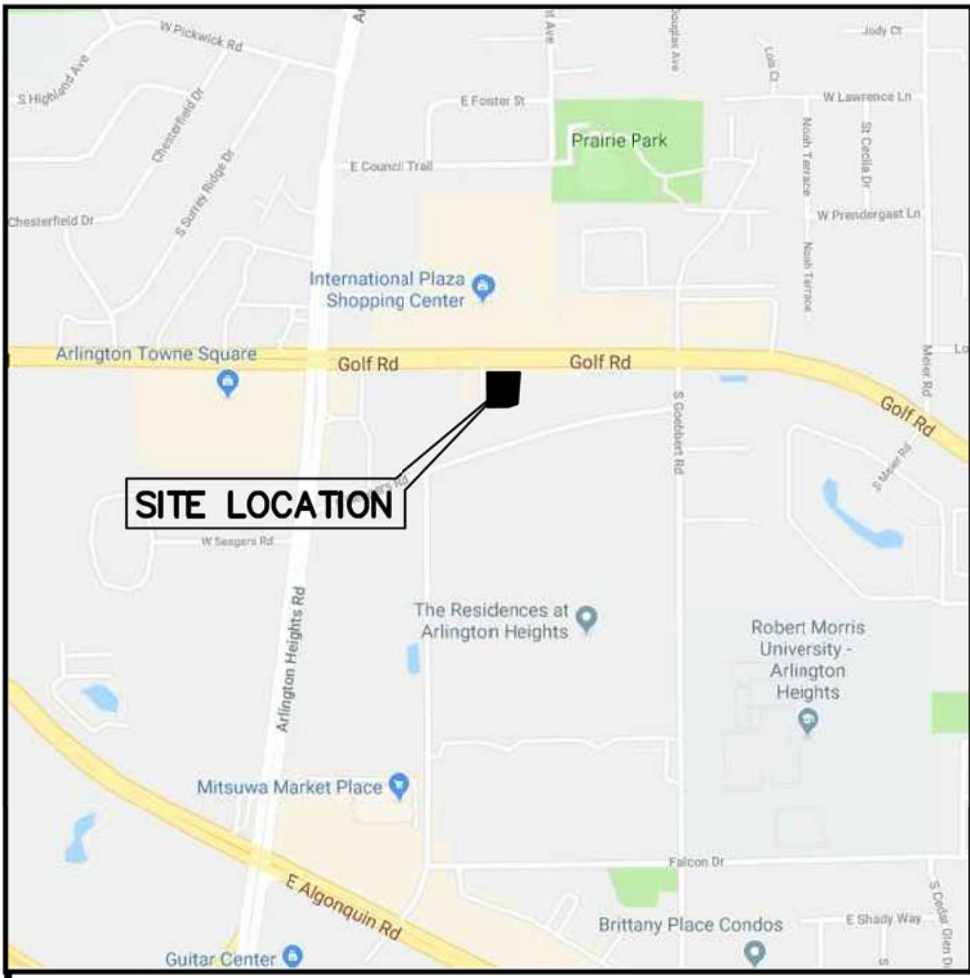
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| CHECKED BY: J. MILLER |
| DESIGN BY: H. WITTENKELLER |
| DRAWN BY: K. SACK |
| DATE: AUGUST 2, 2019 |
| SCALE: NONE |
| PROJECT NO.: 18-108 |

C-4

LC #12-1434

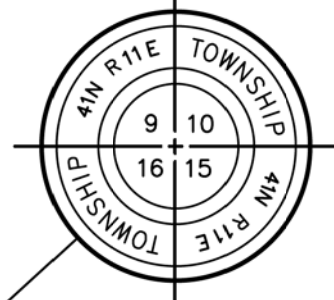
PROJECT DETAILS AND SPECIFICATIONS

PROJECT DETAILS AND SPECIFICATIONS



VICINITY MAP
NO SCALE

P.O.C.
FOUND 1" O.D.I.P.
HELD EAST-WEST



LEGEND

- FOUND 7/8" O.D.I.P. UNLESS OTHERWISE NOTED (HELD LOCATION)
- CONCRETE MONUMENT
- ⊕ CROSS IN CONCRETE
- ⊙ MANHOLE
- ⊙ STORM STRUCTURE
- ⊙ SANITARY MANHOLE
- ⊙ CLEANOUT
- ⊙ FLARED END SECTION
- ⊙ TRANSFORMER PAD
- ⊙ ELECTRIC MANHOLE
- ⊙ ELECTRIC BOX
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC MARKER
- ⊙ ELECTRIC METER
- ⊙ UTILITY POLE
- ⊙ UTILITY POLE W/LIGHT
- ⊙ UTILITY POLE W/TSF
- ⊙ GUY POLE
- ⊙ OVERHEAD TRAFFIC SIGNAL
- ⊙ TRAFFIC SIGNAL MANHOLE
- ⊙ LIGHT
- ⊙ LIGHT POLE
- ⊙ HAND HOLE
- ⊙ VALVE VAULT
- ⊙ FIRE HYDRANT
- ⊙ IRRIGATION CONTROL VALVE
- ⊙ POST INDICATOR VALVE
- ⊙ SIAMANESE WATER CONNECTION
- ⊙ WATER MARKER
- ⊙ WATER METER
- ⊙ VALVE BOX
- ⊙ B/BOX
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE NETWORK INTERFACE
- ⊙ TELEPHONE MARKER
- ⊙ TELEPHONE PEDESTAL
- ⊙ CABLE TELEVISION PEDESTAL
- ⊙ GAS METER
- ⊙ GAS VALVE
- ⊙ GAS MARKER
- ⊙ DOWN SPOUT
- ⊙ BORING HOLE
- ⊙ MONITORING WELL
- ⊙ GATE POST
- ⊙ BOLLARD POLE
- ⊙ SIGN
- ⊙ FLAG POLE
- ⊙ MAILBOX
- ⊙ SANITARY SEWER
- ⊙ STORM SEWER
- ⊙ WATER MAIN
- ⊙ GAS MAIN
- ⊙ ELECTRIC LINE
- ⊙ OVERHEAD WIRES
- ⊙ TELEPHONE LINE
- ⊙ CONFERENTIAL TREE
- ⊙ W/APPROX. DIAMETER
- ⊙ DECIDUOUS TREE
- ⊙ W/APPROX. DIAMETER
- ⊙ MULTI-TREE
- ⊙ (DRIP LINE SHOWN IS APPROXIMATE)
- ⊙ ELEVATION
- ⊙ BITUMINOUS PAVEMENT
- ⊙ CONCRETE SURFACE
- ⊙ DEPRESSED CURB
- ⊙ GRAVEL SURFACE
- ⊙ LANDSCAPE AREA
- ⊙ STONE SURFACE
- ⊙ DETECTABLE TACTILE WARNING SURFACE
- ⊙ WOOD FENCE
- ⊙ CHAIN LINK FENCE
- ⊙ METAL FENCE
- ⊙ METAL GUARDRAIL

ABBREVIATIONS

- O.D.I.P. = OUTSIDE DIAMETER IRON PIPE
- TF = TOP OF FOUNDATION
- FF = FINISHED FLOOR
- FS = FLARED END SECTION
- VCP = VITRIFIED CLAY PIPE
- DIP = DUCTILE IRON PIPE
- PVC = POLYVINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- CMP = CORRUGATED METAL PIPE
- (R) = RECORD BEARING OR DISTANCE
- (M) = MEASURED BEARING OR DISTANCE
- (C) = CALCULATED BEARING OR DISTANCE
- (D) = DEED BEARING OR DISTANCE
- A = ARC LENGTH
- R = RADIUS
- CH = CHORD
- CB = CHORD BEARING
- B.S.L. = BUILDING SETBACK LINE
- U.E. = UTILITY EASEMENT
- P.U.E. = PUBLIC UTILITY EASEMENT
- P.O.B. = POINT OF BEGINNING
- B.C. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
- B.C. = BACK OF CURB
- B.D.C. = BACK OF DEPRESSED CURB
- FL = FLOW LINE
- C = CONCRETE
- P = PAVEMENT
- G = GRAVEL
- EW = EDGE OF WALK
- TW = TOP OF WALL
- TP = TOP OF PIPE
- IE = INVERT ELEVATION
- PL = PROPERTY LINE
- DS = DOWN SPOUT
- S.F. = SQUARE FEET
- SL = SHORE LINE
- TSF = TRANSFORMER
- B = PAVERS

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND
- PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- EXISTING CONTOUR

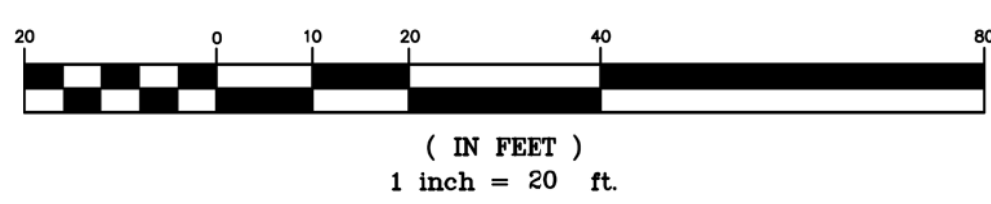
BOUNDARY AND TOPOGRAPHIC SURVEY

LEGAL DESCRIPTION

THAT PART OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT A POINT IN THE NORTH LINE OF SAID SECTION 15, WHICH IS 300 FEET EAST OF THE NORTHWEST CORNER THEREOF; THENCE EAST ALONG SAID NORTH LINE OF SAID SECTION 15, 373.10 FEET; THENCE SOUTH PARALLEL WITH THE WEST LINE OF SAID SECTION 15, 194.3 FEET; THENCE SOUTH 71 DEGREES 30 MINUTES 03 SECONDS WEST, A DISTANCE OF 260.21 FEET TO A POINT IN A LINE WHICH IS 273.50 FEET SOUTH (AS MEASURED ON THE WEST LINE) OF THE NORTH LINE OF SAID SECTION 15; THENCE WEST ALONG SAID PARALLEL LINE 128.22 FEET TO A POINT 300 FEET EAST OF THE WEST LINE OF SAID SECTION 15; THENCE NORTH 273.50 FEET TO THE PLACE OF BEGINNING (EXCEPTING THEREFROM THAT PART LYING EAST OF A STRAIGHT LINE DRAWN FROM A POINT IN THE NORTH LINE OF SAID SECTION 15, WHICH IS 211.0 FEET EAST OF THE POINT OF BEGINNING TO A POINT 66.75 FEET EASTERLY OF THE WESTERLY END OF THE ABOVE DESCRIBED COURSE RUNNING SOUTH 71 DEGREES 30 MINUTES 03 SECONDS WEST), (EXCEPT THAT PART THEREOF CONVEYED TO THE PEOPLE OF THE STATE OF ILLINOIS ON NOVEMBER 2, 1993 BY DEED RECORDED AS DOCUMENT NUMBER 93885432 AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 15; THENCE EASTERLY ALONG THE NORTH LINE OF SAID SECTION 15 ON AN ASSUMED BEARING OF NORTH 88 DEGREES 47 MINUTES 42 SECONDS EAST, 299.95 FEET (300 FEET, RECORD) TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 47 MINUTES 42 SECONDS EAST, 211.00 FEET; THENCE SOUTH 04 DEGREES 16 MINUTES 18 SECONDS WEST, 63.85 FEET; THENCE SOUTH 89 DEGREES 45 MINUTES 55 SECONDS WEST, 205.55 FEET; THENCE NORTH 00 DEGREES 37 MINUTES 03 SECONDS WEST, 60.08 FEET, TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS.

WEST GOLF ROAD

GRAPHIC SCALE



Know what's below.
Call before you dig.

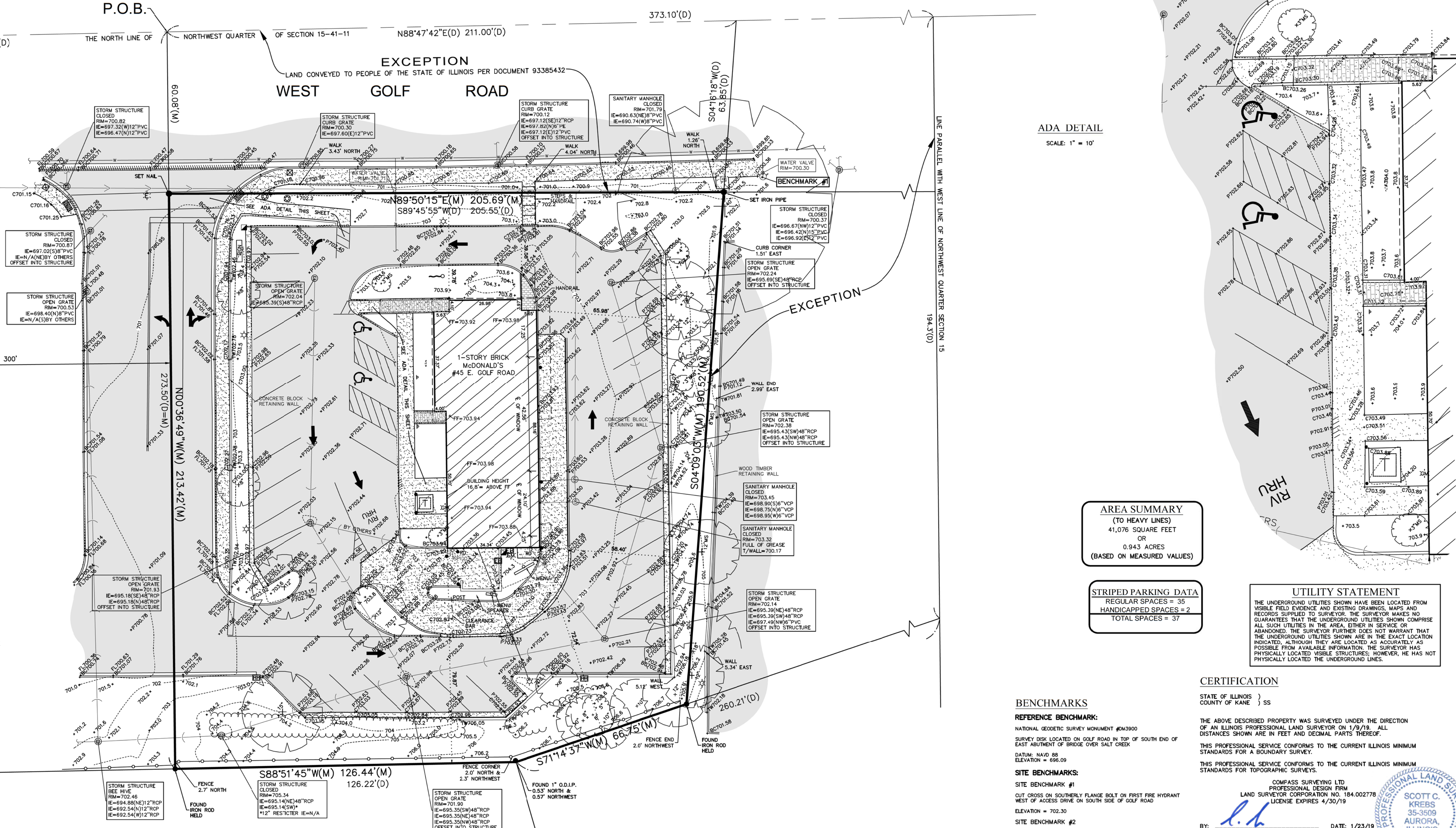
| NO. | REVISIONS | DATE | BY |
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| 1 | ADD LEGAL DESCRIPTION | 6/13/19 | MRA |
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|---------|---|
| PROJECT | MC DONALD'S - ARLINGTON HEIGHTS 12-1434 |
| CLIENT | WATERMARK ENGINEERING RESOURCES, LTD. 2631 GINGER WOODS PARKWAY, STE. 100 AURORA, IL 60012 PHONE: (630) 820-9100 FAX: (630) 820-9030 EMAIL: ADMIN@CL.SURVEYING.COM |

| | |
|--|--|
| COMPASS SURVEYING LTD. | ALTA SURVEYS • TOPOGRAPHY • CONSTRUCTION STAKING |
| 2631 GINGER WOODS PARKWAY, STE. 100 AURORA, IL 60012 PHONE: (630) 820-9100 FAX: (630) 820-9030 EMAIL: ADMIN@CL.SURVEYING.COM | SCOTT C. KREBS 35-3509 AURORA, ILLINOIS |

| | |
|-----------------|--------|
| SCALE: 1" = 20' | 1 OF 1 |
|-----------------|--------|

PROJ. NO.: 18.0411



AREA SUMMARY
(TO HEAVY LINES)
41,076 SQUARE FEET
OR
0.943 ACRES
(BASED ON MEASURED VALUES)

STRIPED PARKING DATA
REGULAR SPACES = 35
HANDICAPPED SPACES = 2
TOTAL SPACES = 37

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM VISIBLE FIELD EVIDENCE, MAPS AND RECORDS SUPPLIED TO SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION. THE SURVEYOR HAS PHYSICALLY LOCATED VISIBLE STRUCTURES; HOWEVER, HE HAS NOT PHYSICALLY LOCATED THE UNDERGROUND LINES.

CERTIFICATION

STATE OF ILLINOIS)
COUNTY OF KANE) SS

THE ABOVE DESCRIBED PROPERTY WAS SURVEYED UNDER THE DIRECTION OF AN ILLINOIS PROFESSIONAL LAND SURVEYOR ON 1/16/19. ALL DISTANCES SHOWN ARE IN FEET AND DECIMAL PARTS THEREOF.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR TOPOGRAPHIC SURVEYS.

COMPASS SURVEYING LTD.
PROFESSIONAL DESIGN PRM
LAND SURVEYOR CORPORATION NO. 184.00278
LICENSE EXPIRES 4/30/19

DATE: 1/23/19
SCOTT C. KREBS
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509
LICENSE EXPIRES 11/30/2020

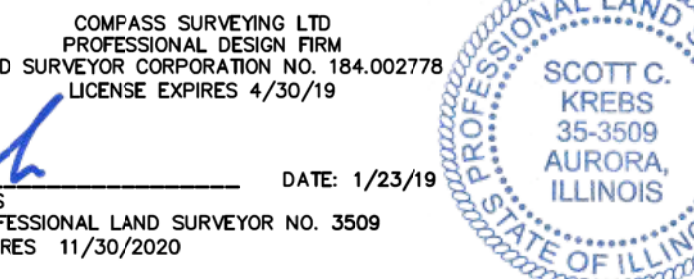
BENCHMARKS

REFERENCE BENCHMARK:

NATIONAL GEODETIC SURVEY MONUMENT #03900
SURVEY DISK LOCATED ON GOLF ROAD IN TOP OF SOUTH END OF EAST ABUTMENT OF BRIDGE OVER SALT CREEK
DATUM: NAVD 88
ELEVATION = 696.09

SITE BENCHMARKS:

SITE BENCHMARK #1
CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT
WEST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD
ELEVATION = 702.30
SITE BENCHMARK #2
CUT CROSS ON SOUTHERLY FLANGE BOLT ON FIRST FIRE HYDRANT
EAST OF ACCESS DRIVE ON SOUTH SIDE OF GOLF ROAD
ELEVATION = 702.86



J:\PSDATA\2018 PROJECTS\18.0411\18.0411 BNDY TOPO.DWG

NOTE:
CONTRACTOR TO MULCH ALL PLANT BEDS
(PROPOSED AND EXISTING) WITH TWICE SHREDDED
HARDWOOD BARK, DARK BROWN IN COLOR, AND
SPADE EDGE WHERE APPLICABLE (TYP)

~~EXISTING PERENNIALS
TO REMAIN, SEE
SHEET L-2 FOR
DETAILS (TYP)~~

RESTORE EXISTING
LANDSCAPE BED AND
NEEDED

EXISTING TREES
TO REMAIN SEE
SHEET L-2 FOR
DETAILS (TYP)

EXISTING SHRUB
TO REMAIN, SEE
SHEET L-2 FOR
DETAILS

EXISTING 6' TALL
SOLID WOOD FENCE
REPAIR FENCE AS
NEEDED

RESTORE AREA WITH-
4" PULVERIZED
TOPSOIL, SUN/SHADE
LAWN SEED MIX AND
SEED BLANKET

SET PLANTS AT SAME LEVEL AS
THEY WERE IN THE CONTAINER
3" SHREDDED HARDWOOD BARK
MULCH.

SOIL MIX PM35 BY MIDWEST —
TRADING COMPANY OR EQUAL.
MOUND BED 2-4" ABOVE
FINISHED GRADE.

BREAK UP ROOT MASS BY —
HAND OR BY SLICING IT
VERTICALLY

- PROVIDE INITIAL WATERING
- PREPARE PERENNIAL BED AT A MIN. DEPTH OF 1.5 TIMES THE PERENNIAL CONTAINER DEPTH
- FINISHED GRADE

- 4" SPADED EDGE
- UNDISTURBED

PERENNIAL PLANTING DETAIL
NOT TO SCALE. USE ONLY ZONE HARDY PLANT MATERIAL.

**Call
Before
You Dig**

JULIE
ILLINOIS
ONE-CALL SYSTEM

Simply Call 811

PLACE TREE SO THAT THE TOP OF THE ROOT BALL IS 2-3" ABOVE THE FINISHED GRADE.

3" SHREDDED HARDWOOD BARK MULCH.

PROVIDE INITIAL WATERING TO SATURATE ROOT BALL AND SETTLE REMAINING AIR POCKETS.

FINISHED GRADE

UNDISTURBED SUBGRADE

DIG HOLE A MINIMUM OF 2 TIMES WIDER THAN THE ROOT BALL DIAMETER.

PROTECT TRUNK WITH TREE WRAP IF PLANTED IN THE FALL AND REMOVE THE FOLLOWING SPRING.

REMOVE ALL TWINE, BURLAP AND WIRE BASKET FROM THE TOP 1/4 OF ROOT BALL. REMOVE EXCESS DIRT FROM TOP OF ROOT BALL IF NECESSARY.

CREATE A SAUCER BY MOUNDING A RING OF SOIL AROUND THE PERIMETER OF THE HOLE TO MAXIMIZE WATER CATCHING AND TO ALLOW FOR SETTLING.

TAMP WHILE BACKFILLING, USING THE ORIGINAL SOIL, MAKING SURE TO CHOP UP THE HEAVIER SOILS FOR USE IN THE BOTTOM AND SAVING THE BETTER SOIL FOR THE TOP LAYERS, ADD MYCORRHIZA WHEN BACKFILLING HOLE.

PLACE SHRUB SO THAT THE TOP OF THE ROOT BALL IS 1-2" ABOVE THE FINISHED GRADE.
3" SHREDDED HARDWOOD BARK MULCH.

PROVIDE INITIAL WATERING TO SATURATE ROOT BALL AND SETTLE REMAINING AIR POCKETS.

UNDISTURBED SUBGRADE

DIG HOLE A MINIMUM OF 2 TIMES WIDER THAN THE ROOT BALL DIAMETER

Diagram illustrating the steps for planting a tree in a hole:

- PRUNE OUT DEAD, BROKEN OR RUBBING BRANCHES AT BRANCH COLLAR.
- REMOVE ALL TWINE AND BURLAP FROM THE TOP 1/4 OF ROOT BALL.
- REMOVE EXCESS DIRT FROM TOP OF ROOT BALL IF NECESSARY.
- CREATE A SAUCER BY MOUNDING A RING OF SOIL AROUND THE PERIMETER OF THE HOLE TO MAXIMIZE WATER CATCHING AND TO ALLOW FOR SETTLING.
- FINISHED GRADE.
- TAMP WEDGE BACKFILLING, USING THE ORIGINAL SOIL MAKING SURE TO CHOP UP THE HEAVY SOILS FOR USE IN THE BOTTOM OF THE HOLE AND SAVING THE BETTER SOIL FOR THE TOP LAYERS. ADD MYCORRHIZA WHEN BACKFILLING HOLE.

SPD SHRUB PLANTING DETAIL
NOT TO SCALE. USE ONLY ZONE HARDY PLANT MATERIAL.

LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL BE HARDY TO THE ZONE IT IS BEING PLANTED IN, ALL TREES AND SHRUBS ARE TO BE BALLED AND BURLAPED UNLESS OTHERWISE NOTED AND SHALL BE GROWN IN ACCORDANCE WITH THE STANDARDS SET FORTH BY THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICANHORT.
2. PLANT SIZES CALLED OUT ON THIS PLAN ARE THE MINIMUM SIZE REQUIRED. PLANTS WHICH FAIL TO MEET THE SIZES LISTED, SHALL BE REJECTED AT THE EXPENSE OF THE CONTRACTOR.
3. CONTRACTOR MUST VERIFY ALL MATERIAL QUANTITIES AS DEPICTED ON THE DRAWING. THE PLANT LIST PROVIDED ON THIS PLAN IS FOR CONVENIENCE ONLY.
4. SUBSTITUTIONS MAY NOT BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER.
5. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOT BEGIN ANY WORK ON-SITE UNTIL ALL UTILITIES HAVE BEEN LOCATED. CONTRACTOR SHALL OBTAIN "AS-BUILT" PLANS FOR ALL IRRIGATION AND LIGHTING PRIOR TO CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES INCLUDING IRRIGATION AND LIGHTING. ALL DAMAGE SHALL BE REPAIRED TO A NEW CONDITION IN ACCORDANCE WITH ALL CODES AT NO COST TO THE OWNER - SEE NOTE 5.
7. ALL UNSUITABLE MATERIAL (CONCRETE, AGGREGATE STONE, CRUSHED ASPHALT, BRICK ETC.) SHALL BE REMOVED, INCLUDING HAUL OFF, PRIOR TO PLANTING AND SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
8. SOIL MIX PMW35 BY MIDWEST TRADING COMPANY OR EQUAL SHALL BE ROTOTILLED INTO ALL PERENNIAL AND ANNUAL PLANTING BEDS PRIOR TO THE INSTALLATION OF THE PLANT MATERIAL. A SLOW RELEASE, GRANULAR FERTILIZER SHALL BE APPLIED TO ALL ANNUAL AND PERENNIAL PLANTING BEDS AT THE RECOMMENDED RATE, AND SHALL BE ROTOTILLED IN WITH THE ABOVE SOIL MIXTURE BEFORE THE PLANT MATERIAL IS INSTALLED.
9. CONTRACTOR TO PROVIDE THOROUGH INITIAL WATERING OF ALL PLANTINGS WITHIN 12 HOURS OF INSTALLATION TO ENSURE ALL AIR POCKETS HAVE BEEN REMOVED AROUND ROOT BALL.
10. ALL PLANT BED AREAS ARE TO BE MULCHED WITH 3" OF DOUBLE SHREDDED HARDWOOD MULCH. AREAS SHALL BE SEPARATED WITH A SPADE EDGE ALONG PERIMETERS ADJACENT TO CURBS, AREAS, FINISH GRADE (AFTER SETTLING) SHALL BE BELOW ADJACENT CURBS.
11. ALL TURF AREAS ARE TO BE A MINIMUM OF A FIVE WAY BLUEGRASS BLEND, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL INSTALLED TURF AREAS UNTIL TIME OF KNITTING. IF TURF SEED AND SOD OCCUR ON THE SAME PROJECT, CONTRACTOR SHALL VERIFY AND USE SEED MIXTURES TO MATCH SOD.
12. AREAS TO BE SODDED SHALL BE WITH AN "IMPROVED TURFGRASS SOD" OF PREMIUM GRADE. SOD SHALL BE A 5 WAY BLEND OF IMPROVED KENTUCKY BLUEGRASS VARIETIES THAT HAS BEEN GROWN LOCALLY TO THE PROJECT SITE. SOD MUST BE MATURED FOR 2 FULL GROWING SEASONS PRIOR TO SETTING. CUTTING AND BE HEALTHY WITH WELL ESTABLISHED ROOTS. SOD SHALL BE FREE OF DISEASE, INSECTS AND DEBRIS. SOD SHALL BE UNIFORM IN LEAF COLOR, TEXTURE, AND DENSITY. SOD SHALL BE DELIVERED, INSTALLED, AND WATERED WITHIN 24 HOURS OF HARVEST IN WHICH TEMPERATURES DO NOT EXCEED 90 DEGREES (F) NOR LESS THAN 55 DEGREES (F). SOD SHALL BE MACHINE-CUT AT A MINIMUM UNIFORM SOIL THICKNESS (1.5" OF SOD IS DESIRED) BUT SOD BED THICKNESS SHALL BE THICKNESS NECESSARY FOR ROOT VIABILITY. SOD SHALL BE LAID IN STAGGERED STRAIGHT LINES, TIGHTLY AGAINST EACH OTHER WITHOUT STRETCHING OR OVERLAPPING. SOD STAKES SHALL USED ON ALL SLOPES 4:1 OR GREATER.
13. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS (INTENDED OR UNINTENDED) AT A MINIMUM, TO THE ORIGINAL CONDITION UNLESS OTHERWISE NOTED.
14. THE EXISTING PLANT MATERIAL SHOWN ON THIS PLAN IS INTENDED SOLELY TO IDENTIFY THEM AS OBSERVED IN THE FIELD. THIS PLAN DOES NOT MAKE ANY CLAIMS ABOUT THE CONDITION OR SOUND OF ANY OF THE PLANT MATERIAL DESCRIBED HEREIN OR OBSERVED IN THE FIELD.
15. ALL TRANSPLANTED PLANT MATERIAL MUST BE INSTALLED IMMEDIATELY UPON EXTRACTION FROM ITS ORIGINAL LOCATION, UNLESS SPECIFIC ARRANGEMENTS HAVE BEEN MADE WITH THE LANDSCAPE ARCHITECT/DESIGNER. SHOULD IT BECOME UNREASONABLE TO TRANSPLANT ANY OF THE PLANT MATERIAL AS DESCRIBED IN THIS PLAN, DUE TO SITE CONSTRAINTS OR OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CONTACTING LANDSCAPE ARCHITECT/DESIGNER TO MAKE ALTERNATIVE ARRANGEMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE HEALTH AND VIABILITY OF THE PROPOSED PLANT MATERIAL INCLUDING WATERING, PROTECTION FROM PHYSICAL DAMAGE FROM THE TIME PLANT IS SELECTED THROUGH ITS INSTALLATION.
17. CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL REMAINING PLUMB UNTIL THE END OF THE GUARANTEE PERIOD. PLANTS MAY NOT BE STAKED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT/DESIGNER.
18. CONTRACTOR TO GUARANTEE PLANT MATERIAL AND LABOR FOR A MINIMUM OF ONE YEAR FROM THE TIME OF INSTALLATION.
19. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH AND ABIDING BY THE LANDSCAPE ORDINANCES FOR THE SPECIFIC JURISDICTION IN WHICH THE WORK IS TAKING PLACE.
20. BIDDERS SHALL BE RESPONSIBLE FOR EXAMINING THE SITE, PRIOR TO PREPARING BID, TO BECOME FAMILIAR WITH THE SPECIFIC SITE CONSTRAINTS.
21. ALL EXISTING ON-SITE PLANT MATERIAL NOT EFFECTED BY CONSTRUCTION OR THE PROPOSED LANDSCAPE, SHALL BE PROTECTED AS PART OF THIS PLAN. EXISTING LANDSCAPE IN AREAS OF CONSTRUCTION AND PROPOSED LANDSCAPE SHALL BE REMOVED AS PART OF THIS PLAN.
22. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF ALL THE ITEMS SHOWN ON THE PLANS.
23. IF IRRIGATION IS DEEMED NECESSARY, THE DESIGN AND INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. AN IRRIGATION PLAN ALONG WITH AN AS BUILT OF THE IRRIGATION SYSTEM SHALL BE PREPARED FOR OWNER REVIEW AND APPROVAL. CONTRACTOR SHALL GUARANTEE PERFORMANCE, PARTS, AND LABOR FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL APPROVAL.
24. IF EXISTING IRRIGATION IS PRESENT ON SITE, CONTRACTOR SHALL ADJUST, ADD TO, OR SUBTRACT FROM THE EXISTING IRRIGATION SYSTEM TO ACCOMMODATE ANY PROPOSED ALTERATIONS/ADDITIONS TO THE EXISTING LANDSCAPE. CONTRACTOR SHALL PROVIDE THE OWNER AN AS BUILT OF THE IRRIGATION SYSTEM AND ALL CHANGES TO THE SYSTEM AFFECTED BY THIS PROJECT.
25. PROVIDE TOPSOIL RE-Spread PER THE FOLLOWING UNLESS OTHERWISE NOTED:
 - A. 4" MINIMUM IN GRASS OR SOD AREAS
 - B. 6" MINIMUM IN PLANTING AREAS
 - C. 12" MINIMUM IN LANDSCAPE ISLANDS

GENERAL NOTES:

1. THESE PLANS ARE BASED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY
(SURVEY PROJECT #18-0411 DATED 01/16/19)
PREPARED BY: COMPASS SURVEYING LTD
2631 GINGER WOODS PARKWAY, STE 100, AURORA, IL 60502
(630) 820-9100
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.

ON SITE PARKING DATA

| | |
|-----------------------------|----------|
| EX. REGULAR SPACES | 35 |
| EX. ADA ACCESSIBLE SPACES | <u>2</u> |
| EX. TOTAL SPACES | 37 |
| <hr/> | |
| PROP. REGULAR SPACES | 28 |
| PROP. ADA ACCESSIBLE SPACES | <u>2</u> |
| PROP. TOTAL SPACES | 30 |

SITE DATA

LOT AREA = 41,054 S.F. (0.94 AC.)

PLANT LIST

DECIDUOUS, EVERGREEN, AND ORNAMENTAL TREES

| <u>QTY.</u> | <u>ABRV.</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> | <u>SIZE</u> |
|-------------|--------------|---------------------------------|--------------------------|-------------|
| 2 | KCT | Gymnocladus dioicus (Male Only) | Kentucky Coffee Tree | 4" Cal. |
| 11 | EGA | Thuja occidentalis 'Smaragd' | Emerald Green Arborvitae | 6' |

FLOWERING AND EVERGREEN SHRUBS


| QTY. | ABRV. | BOTANICAL NAME | COMMON NAME | SIZE |
|------|-------|-----------------------------|-----------------------------|--------|
| 20 | BBH | Hydrangea paniculata 'Bobo' | Gobo-Hydrangea | 5 Gal. |
| 8 | GLS | Rhus aromatica 'Grow-Low' | Grow-Low Sumac | 5 Gal. |
| 8 | EKR | Rosa 'BAlmir' | Easy Elegance Kashmir Rose | 3 Gal. |
| 11 | DPS | Spiraea japonica 'Tracy' | Double Play Big Bang Spirea | 3 Gal. |
| 3 | MKL | Syringa patula 'Miss Kim' | Miss Kim Lilac | 5 Gal. |
| 4 | JVB | Viburnum x juddii | Judd Viburnum | 36" |
| 35 | DHW | Weigela x 'Dark Horse' | Dark Horse Weigela | 3 Gal. |

PERENNIALS, ORNAMENTAL GRASS AND GROUNDCOVERS

| QTY. | ABRV. | BOTANICAL NAME | COMMON NAME | SIZE |
|------|-------|--|------------------------------|--------|
| 14 | OMI | Allium 'Millenium' | Ornamental Onion 'Millenium' | 1 Gal. |
| 21 | GGR | Geranium 'Gerwat' Rozanne | Rozanne Geranium | 1 Gal. |
| 52 | GBH | Hemerocallis 'Going Bananas' | Going Bananas Daylily | 1 Gal. |
| 27 | LSB | Rudbeckia fulgida 'Viette's Little Suzy' | Little Suzy Black Eye Susan | 1 Gal. |
| 41 | DPD | Sporobolus heterolepis 'Tara' | Dwarf Prairie Dropseed | 1 Gal. |

AS BUILT LANDSCAPE PLAN
PREPARED BY
KENNETH M. PRICE, RLA

LANDSCAPE PLAN

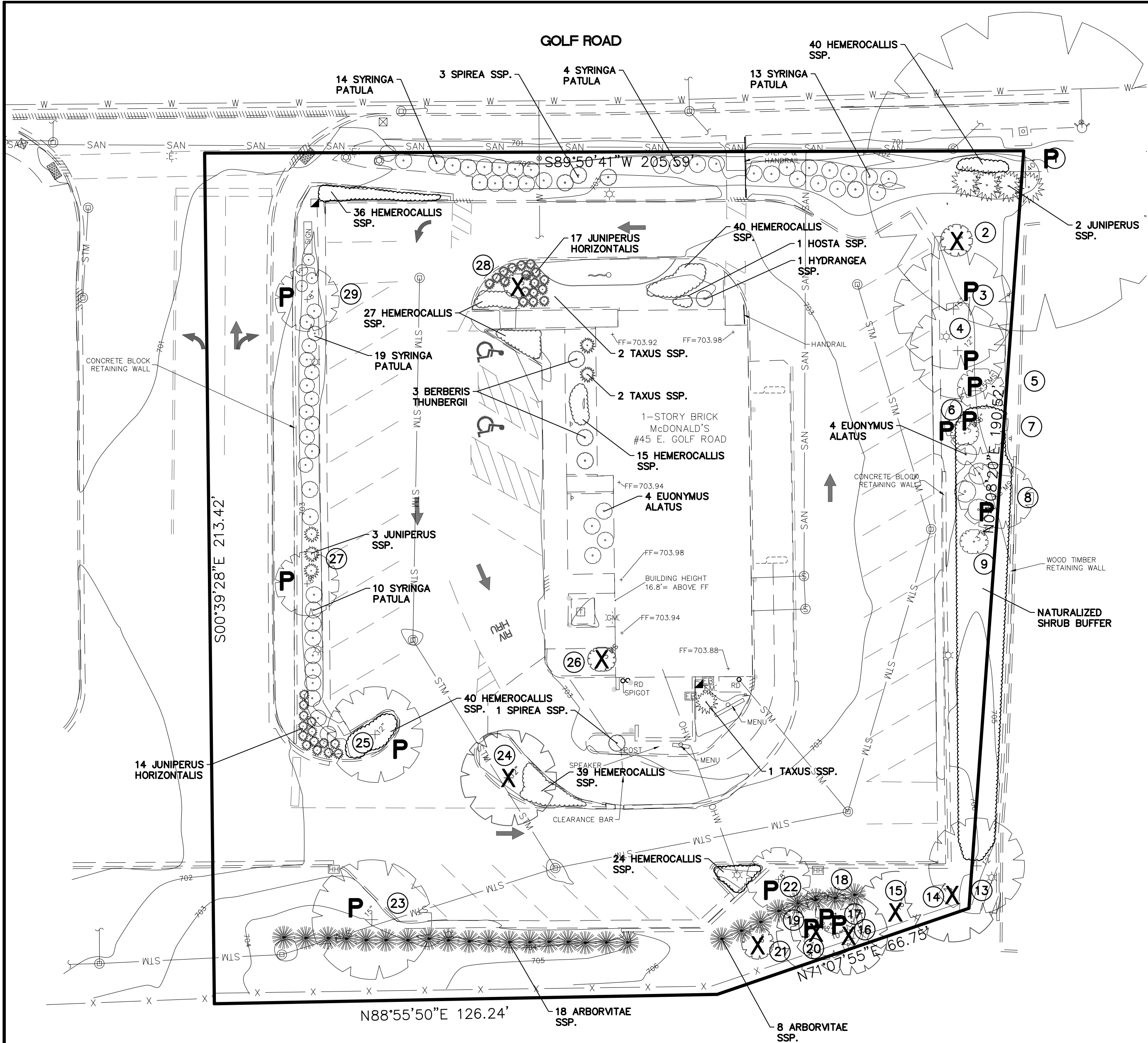
| | | | |
|---|--|---------------|-------------------------------------|
| Prepared By: | | Prepared For: | |
|  McDonald's 711 Jorie Blvd., 3rd Floor Oak Brook, IL 60523 MCDONALD'S - ARLINGTON HEIGHTS 45 E. Golf Road Arlington Heights, Illinois | | NO. | REVISIONS |
| | | 1 | PER ARLINGTON HEIGHTS DEPT., REVIEW |
| | | | |
| | | | |
| | | | |
| | | DATE | 8/5/19 |

Watermark Engineering
RESOURCES, LTD.

2631 Ginger Woods Parkway, Suite 100, Aurora, IL 60502
phone 630-375-1800 fax 630-236-9800 www.watermark-engineering.com

| | | |
|-------------|-----|-----------------------|
| LC #12-1434 | L-1 | CHECKED BY: J. MILLER |
| | | DESIGN BY: K. PRICE |
| | | DRAWN BY: K. PRICE |
| | | DATE: JUNE 13, 2019 |
| | | SCALE: 1" = 20' |
| | | PROJECT NO.: 18-108 |

LANDSCAPE PLAN



TREE PRESERVATION AND REMOVALS KEY

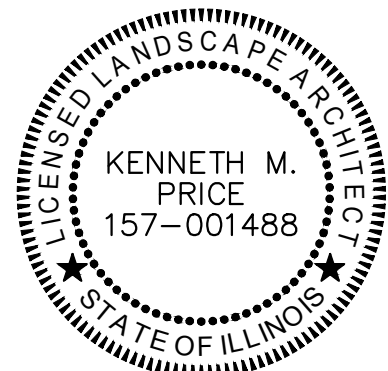
- X = REMOVE EXISTING TREE INCLUDING STUMP AND STUMP GRINDINGS/REMOVE BRUSH.
- P = EXISTING TREE BE PROTECTED

TREE SURVEY

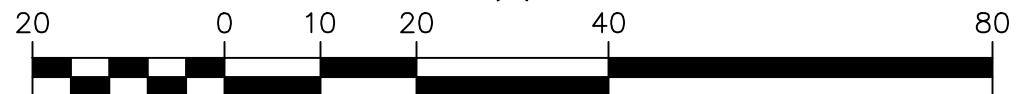
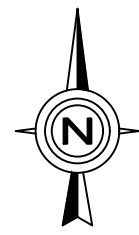
| ID | Botanical Name | Common Name | Tree Size | Condition | Action | Comments/ Rationale |
|----|---|---------------------|-----------|-----------|----------|--------------------------|
| # | Conditions Key - 5 = Excellent, 4 = Good, 3 = Fair, 2 = Poor, 1 = Dying or Dead | | Cal. Inch | 1-5 | P / R | |
| 1 | Ulmus pumila | Siberian Elm | 40" | 3 | Preserve | Off-Site |
| 2 | Fraxinus pennsylvanica | Green Ash | 4" | 1 | Remove | Dead |
| 3 | Ulmus pumila | Siberian Elm | 15" | 2 | Preserve | - |
| 4 | Ulmus pumila | Siberian Elm | 12" | 2 | Preserve | - |
| 5 | Malus Ssp. | Flowering Crabapple | ms 5" | 3 | Preserve | - |
| 6 | Ulmus pumila | Siberian Elm | ms 8" | 3 | Preserve | - |
| 7 | Amelanchier grandiflora | Serviceberry Tree | 3" | 3 | Preserve | - |
| 8 | Morus alba | White Mulberry | 8" | 2 | Preserve | - |
| 9 | Amelanchier grandiflora | Serviceberry Tree | ms3" | 3 | Preserve | - |
| 10 | Ulmus pumila | Siberian Elm | ms12" | 1 | Preserve | Off-Site |
| 11 | Acer negundo | Boxelder Tree | 12" | 1 | Preserve | Off-Site |
| 12 | Ulmus pumila | Siberian Elm | 18" | 1 | Preserve | Off-Site |
| 13 | Morus alba | White Mulberry | 12" | 2 | Preserve | Off-Site |
| 14 | Acer negundo | Boxelder Tree | 12" | 2 | Remove | Leaning/ Hazardous |
| 15 | Fraxinus pennsylvanica | Green Ash | 10" | 1 | Remove | Dead/ Leaning/ Hazardous |
| 16 | Acer negundo | Boxelder Tree | 10" | 1 | Remove | Dead/ Leaning/ Hazardous |
| 17 | Acer negundo | Boxelder Tree | 5" | 2 | Preserve | - |
| 18 | Acer negundo | Boxelder Tree | 8" | 2 | Preserve | - |
| 19 | Acer negundo | Boxelder Tree | 8" | 2 | Preserve | - |
| 20 | Acer negundo | Boxelder Tree | 10" | 1 | Remove | Dead/ Leaning/ Hazardous |
| 21 | Fraxinus pennsylvanica | Green Ash | 6" | 1 | Remove | Dead/ Hazardous |
| 22 | Gleditsia triacanthos | Honeylocust | 8" | 3 | Preserve | - |
| 23 | Gleditsia triacanthos | Honeylocust | 15" | 3 | Preserve | - |
| 24 | Gleditsia triacanthos | Honeylocust | 12" | 3 | Remove | Construction |
| 25 | Gleditsia triacanthos | Honeylocust | 12" | 3 | Preserve | - |
| 26 | Amelanchier grandiflora | Serviceberry Tree | ms3" | 3 | Remove | Construction |
| 27 | Acer platanoides | Norway Maple | 8" | 3 | Preserve | - |
| 28 | Crataegus crusgalli | Hawthorn Tree | ms3" | 3 | Remove | Construction |
| 29 | Acer platanoides | Norway Maple | 8" | 3 | Preserve | - |

GENERAL NOTES:

- THESE PLANS ARE BASED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY (SURVEY PROJECT #18-0411 DATED 01/16/19) PREPARED BY: COMPASS SURVEYING LTD 2631 GINGER WOODS PARKWAY, STE 100, AURORA, IL 60502 (630) 820-9100
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.
- TREE PRESERVATION/REMOVAL AND EXISTING LANDSCAPE NOTES:
- TREES WHICH ARE NOTED TO REMAIN AND BE PROTECTED SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE DETAIL PROVIDED, PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY ON SITE. ANY DAMAGE DONE TO A PROTECTED TREE DURING CONSTRUCTION SHALL BE REPORTED TO THE LANDSCAPE DESIGNER.
 - TREES WHICH ARE NOTED TO BE REMOVED SHALL HAVE THE STUMP GROUND DOWN A MINIMUM OF 18" BELOW THE ADJACENT GRADE UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE AND AGREED TO BY THE OWNER AND LANDSCAPE DESIGNER. ALL DEBRIS FROM THE REMOVED TREE/STUMP SHALL BE HAULED OFF-SITE.
 - ALL DISTURBED AREAS SHALL BE RESTORED TO MATCH EXISTING OR PROPOSED CONDITIONS, INCLUDING BACKFILLING OF HOLES LEFT FROM LANDSCAPE MATERIAL REMOVAL. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
 - TREES WHICH ARE NOTED TO BE PRUNED SHALL BE PRUNED BY AN I.S.A. CERTIFIED ARBORIST UNLESS OTHERWISE APPROVED BY THE LANDSCAPE DESIGNER.
 - NO CONSTRUCTION ACTIVITY, AND/OR PLACEMENT OF EQUIPMENT, MATERIALS, OR SPOILS STORAGE SHALL BE PERMITTED WITHIN THE ROOT ZONE OF ANY PROTECTED TREE. NO EXCESS SOIL, ADDITIONAL FILL, CRUSHED LIMESTONE, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE ROOT ZONE OR LOCATED AT A HIGHER LOCATION WHERE DRAINAGE TOWARD THE TREES COULD POTENTIALLY AFFECT THE HEALTH OF SAID TREES.
 - IN THE EVENT THAT AN UNDERGROUND UTILITY LINE/PIPE IS PROPOSED TO BE LOCATED WITHIN FIVE FEET OF THE TRUNK OF A TREE DESIGNATED FOR PRESERVATION, THAT UTILITY LINE/PIPE SHALL (WHERE POSSIBLE) BE AUGURED TO PREVENT DAMAGE TO THE ROOT SYSTEM OF THE TREE.
 - DURING THE CONSTRUCTION PERIOD NO ATTACHMENTS, SIGNS, FENCES, WIRES, ETC. OTHER THAN APPROVED FOR BRACING, GUYING OR WRAPPING, SHALL BE ATTACHED TO ANY TREE.
 - UNLESS OTHERWISE NOTED ALL EXISTING ON-SITE PLANT MATERIAL NOT EFFECTED BY CONSTRUCTION OR THE PROPOSED LANDSCAPE SHALL BE PROTECTED AS PART OF THIS PLAN. EXISTING LANDSCAPE IN AREAS OF CONSTRUCTION AND PROPOSED LANDSCAPE SHALL BE REMOVED.
 - TREES WHICH ARE NOTED TO REMAIN AND BE PROTECTED, AND WHOSE CANOPIES/ROOT SYSTEMS FALL WITHIN AN AREA OF DEMOLITION/CONSTRUCTION, SHALL HAVE ALL ROOTS EXPOSED BY HAND AND CLEANLY PRUNED, USING I.S.A. APPROVED METHODS.
 - ALL EXISTING PLANT MATERIAL ON THIS PLAN HAS BEEN SHOWN FOR GRAPHIC AND DESIGN PURPOSES ONLY. ALL EXISTING PLANT MATERIAL, NOT SHOWN ON THE LAND SURVEY PROVIDED, WAS LOCATED IN THE FIELD BY THE LANDSCAPE DESIGNER AND THEREFORE IS APPROXIMATE IN IT'S LOCATION AS SHOWN ON THIS PLAN. THIS PLAN DOES NOT MAKE ANY CLAIMS ABOUT THE VIABILITY OR SAFETY OF ANY OF THE PLANT MATERIAL DESCRIBED HEREIN OR OBSERVED IN THE FIELD.



AS BUILT LANDSCAPE PLAN
PREPARED BY
KENNETH M. PRICE, RLA



TREE PRESERVATION AND
AS-BUILT
LANDSCAPE PLAN

CHECKED BY: J. MILLER
DESIGN BY: K. PRICE
DRAWN BY: K. PRICE
DATE: JUNE 13, 2019
SCALE: 1" = 20'
PROJECT NO.: 18-108

L-2

LC #12-1434

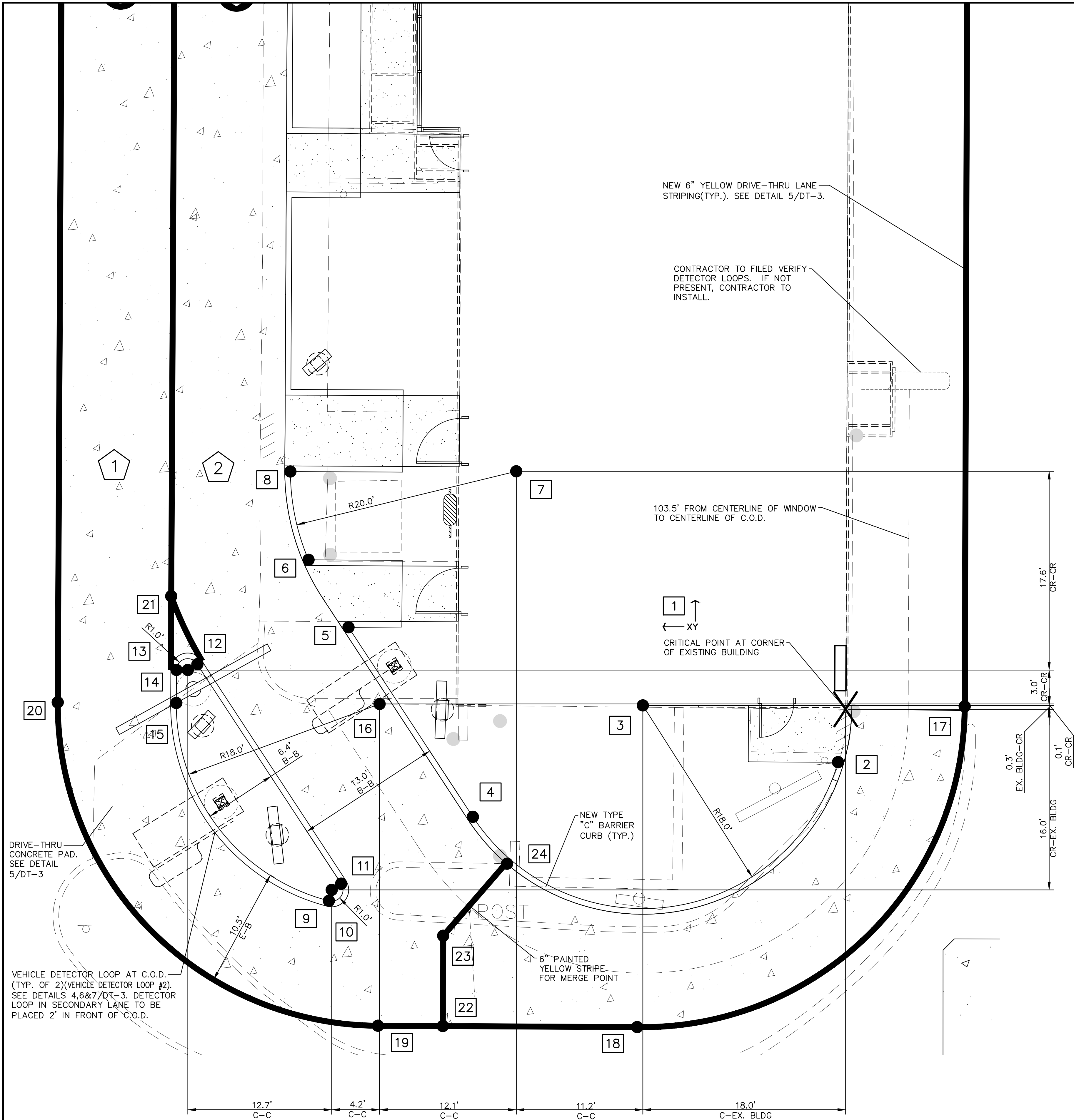
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Arlington Heights, Illinois

Prepared By:

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phone 630-375-1800 fax 630-228-9800 www.watermark-engineering.com

TREE PRESERVATION AND AS-BUILT LANDSCAPE PLAN



GENERAL NOTES:

- 1. THE REGIONAL CONSTRUCTION MANAGER IS TO REVIEW AND APPROVE ALL DRIVE-THRU LAYOUTS. A DRIVE-THRU IS FINAL, AND CONSIDERED "RED", ONCE APPROVED. NO CHANGES ARE TO BE MADE AFTER THIS POINT.
- 2. DUE TO THE EXACT GEOMETRY REQUIRED FOR THE EFFICIENT OPERATION OF THIS DRIVE-THRU LAYOUT, IT IS RECOMMENDED THAT ALL DRIVE-THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS TO BE FIELD LOCATED BY A LICENSED SURVEYOR.
- 3. THE PLACEMENT OF THE CODs AND ANY ADDITIONAL SIGNAGE SHOULD BE SUCH THAT IT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.
- 4. THESE DIMENSIONS ARE CRITICAL TO THE FUNDAMENTAL LAYOUT OF THE SIDE BY SIDE DESIGN.
- 5. IF DIMENSIONS ARE MODIFIED CONTACT DESIGN ENGINEER IMMEDIATELY.
- 6. VERIFY WITH SUPPLIER OF DRIVE-THRU EQUIPMENT THAT MOST CURRENT EQUIPMENT IS BEING UTILIZED.

COORDINATES

Pavement

| | X | Y | DESCRIPTION |
|----|---------|---------|---|
| 1 | 0.00' | 0.00' | CRITICAL STARTING POINT FOR ALL COORDINATES |
| 2 | 0.67' | -4.68' | TO BACK OF CURB AT START OF RADIUS |
| 3 | 17.95' | 0.35' | TO CENTER OF RADIUS(18') |
| 4 | 33.00' | -9.53' | TO BACK OF CURB AT END OF RADIUS |
| 5 | 44.02' | 7.27' | TO BACK OF CURB AT START OF RADIUS |
| 6 | 47.56' | 13.24' | TO BACK OF CURB AT START OF RADIUS |
| 7 | 29.16' | 21.08' | TO CENTER OF RADIUS(20') |
| 8 | 49.16' | 21.06' | TO BACK OF CURB AT END OF RADIUS |
| 9 | 45.75' | -16.96' | TO BACK OF CURB AT START OF RADIUS |
| 10 | 45.50' | -15.99' | TO CENTER OF RADIUS(1') |
| 11 | 44.67' | -15.45' | TO BACK OF CURB AT END OF RADIUS |
| 12 | 57.40' | 4.00' | TO BACK OF CURB AT START OF RADIUS |
| 13 | 58.25' | 3.48' | TO CENTER OF RADIUS(1') |
| 14 | 59.25' | 3.49' | TO BACK OF CURB AT END OF RADIUS |
| 15 | 59.27' | 0.56' | TO BACK OF CURB AT START OF RADIUS |
| 16 | 41.27' | 0.47' | TO CENTER OF RADIUS(18') |
| 17 | -10.55' | 0.25' | TO STRIPING/CONCRETE |
| 18 | 18.45' | -28.15' | TO STRIPING/CONCRETE |
| 19 | 41.41' | -28.03' | TO STRIPING/CONCRETE |
| 20 | 69.77' | 0.62' | TO STRIPING/CONCRETE |
| 21 | 59.72' | 10.01' | TO STRIPING/CONCRETE |
| 22 | 35.67' | -28.06' | TO MERGE POINT STRIPING |
| 23 | 35.63' | -20.06' | TO MERGE POINT STRIPING |
| 24 | 29.97' | -13.68' | TO MERGE POINT STRIPING |

DRIVE-THRU APPROACH

1
DT-1

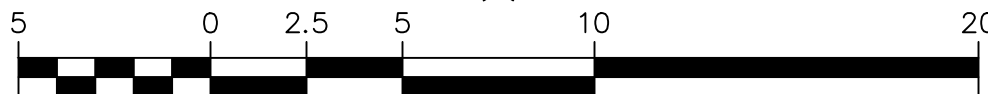
1" = 5'-0"

1

PRIMARY DRIVE-THRU LANE

2

SECONDARY DRIVE-THRU LANE



DRIVE-THRU
PAVEMENT PLAN

CHECKED BY: J. MILLER
DESIGN BY: H. WITTENKELLER
DRAWN BY: K. SACK
DATE: JUNE 13, 2019
SCALE: 1" = 5'
PROJECT NO.: 18-108

DT-1

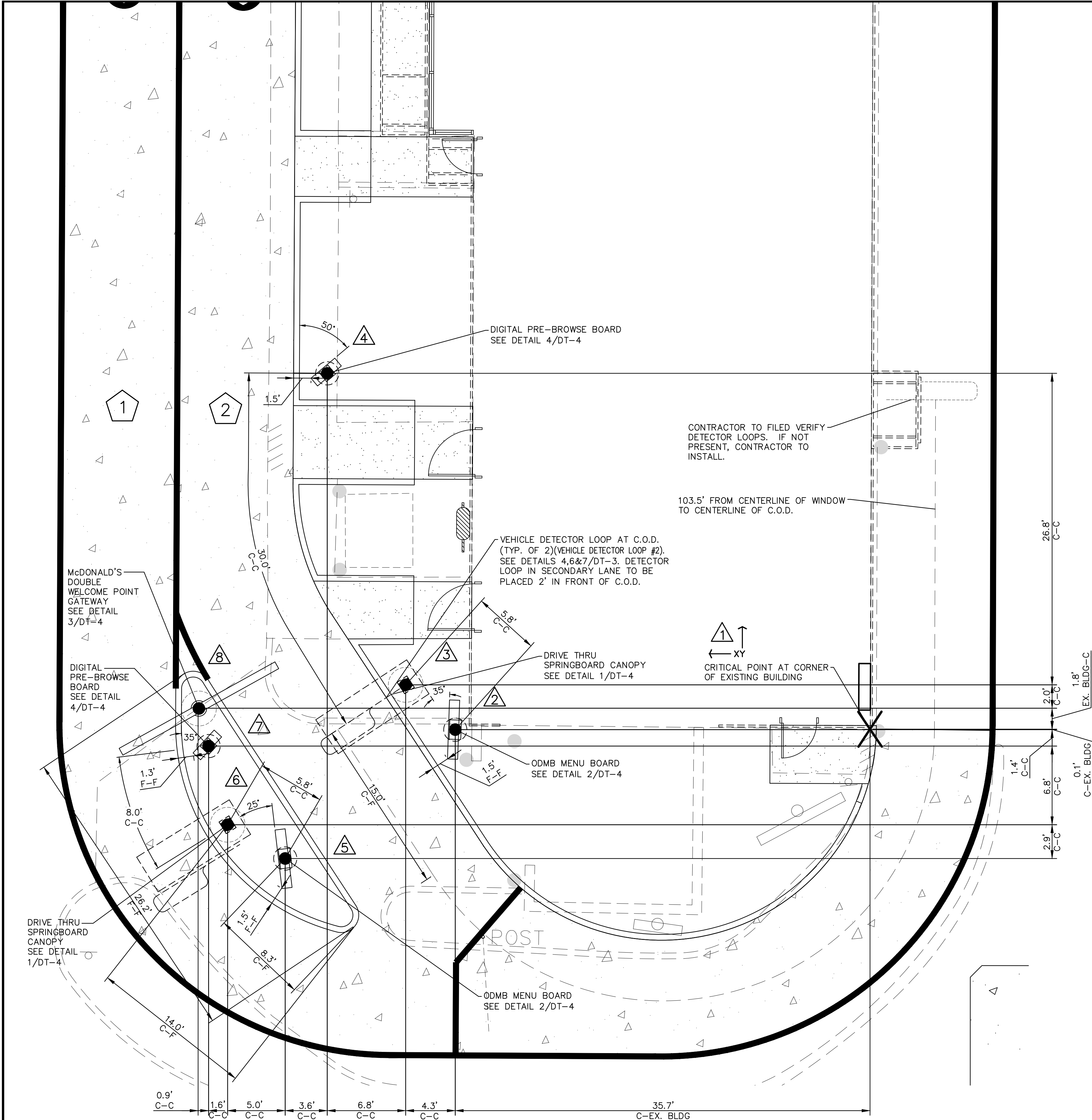
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Prepared By:

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DRIVE-THRU PAVEMENT PLAN



GENERAL NOTES:

1. THE LOCATION AND ORIENTATION OF MENU BOARDS WERE DETERMINED BY THE SIGHT LINES OF THE CARS. THE CARS WERE POSITIONED ACCORDING TO THE MAX. AMOUNT OF CARS DURING A PEAK PERIOD. ALL DIMENSIONS SHOWN ARE BASED UPON PROTOTYPICAL LAYOUTS SHOWN. ACTUAL DIMENSIONS TO BE BASED ON SITE SPECIFIC CONFIGURATIONS AND THE REQUIREMENTS OF NOTE 2.
2. MENU BOARD IS ORIENTATED FOR VIEWING BY CAR 6 (PRIMARY USER) AND CAR 6 (SECONDARY USER).
3. PROVIDE TWO CIRCUITS FOR MENU BOARD AND PRE-VIEW BOARDS. ONE CIRCUIT FOR LIGHTS AND ONE CIRCUIT WITH LOCK FOR MOTOR AND CONTROLLER. REFER TO ARCHITECTURAL/ELECTRICAL PLANS FOR TERMINATION OF CONDUIT RUNS INSIDE BUILDING.
4. ALL GALVANIZED ANCHOR BOLTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
5. **PLACEMENT NOTE:** THE PLACEMENT OF THE CUSTOMER ORDER DISPLAY SHOULD BE SUCH THAT IT DOES NOT BLOCK THE VIEWING OF THE MENU BOARD FROM THE DRIVER'S VANTAGE POINT.
6. **VERIFICATION NOTE:** VERIFY ALL DRIVE-THRU EQUIPMENT WITH McDONALD'S PROJECT MANAGER AND OPERATIONS MANAGER BEFORE PROCEEDING.
7. THE REGIONAL CONSTRUCTION MANAGER IS TO REVIEW AND APPROVE ALL DRIVE-THRU LAYOUTS. A DRIVE-THRU IS FINAL, AND CONSIDERED "RED", ONCE APPROVED. NO CHANGES ARE TO BE MADE AFTER THIS POINT.
8. DUE TO THE EXACT GEOMETRY REQUIRED FOR THE EFFICIENT OPERATION OF THIS DRIVE-THRU LAYOUT, IT IS RECOMMENDED THAT ALL DRIVE-THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS TO BE FIELD LOCATED BY A LICENSED SURVEYOR.
9. THE PLACEMENT OF THE CODS AND ANY ADDITIONAL SIGNAGE SHOULD BE SUCH THAT IT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.
10. THESE DIMENSIONS ARE CRITICAL TO THE FUNDAMENTAL LAYOUT OF THE SIDE BY SIDE DESIGN.
11. IF DIMENSIONS ARE MODIFIED CONTACT DESIGN ENGINEER IMMEDIATELY.
12. VERIFY WITH SUPPLIER OF DRIVE-THRU EQUIPMENT THAT MOST CURRENT EQUIPMENT IS BEING UTILIZED.

COORDINATES

| Equipment | | | |
|-----------|--------|---------|---|
| | X | Y | DESCRIPTION |
| 1 | 0.00' | 0.00' | CRITICAL STARTING POINT FOR ALL COORDINATES |
| 2 | 35.70' | -0.04' | TO CENTER OF ODMB MENU BOARD |
| 3 | 39.96' | 3.82' | TO CENTER OF DRIVE THRU SPRINGBOARD CANOPY |
| 4 | 46.71' | 30.61' | TO CENTER OF DIGITAL PRE-BROWSE BOARD |
| 5 | 50.33' | -11.13' | TO CENTER OF ODMB MENU BOARD |
| 6 | 55.29' | -8.22' | TO CENTER OF DRIVE THRU SPRINGBOARD CANOPY |
| 7 | 56.93' | -1.45' | TO CENTER OF DIGITAL PRE-BROWSE BOARD |
| 8 | 57.76' | 1.78' | TO CENTER OF FOUNDATION OF DOUBLE WELCOME POINT GATEWAY |

DRIVE-THRU APPROACH

1" = 5'-0"

- 1 PRIMARY DRIVE-THRU LANE
- 2 SECONDARY DRIVE-THRU LANE

DRIVE-THRU EQUIPMENT PLAN

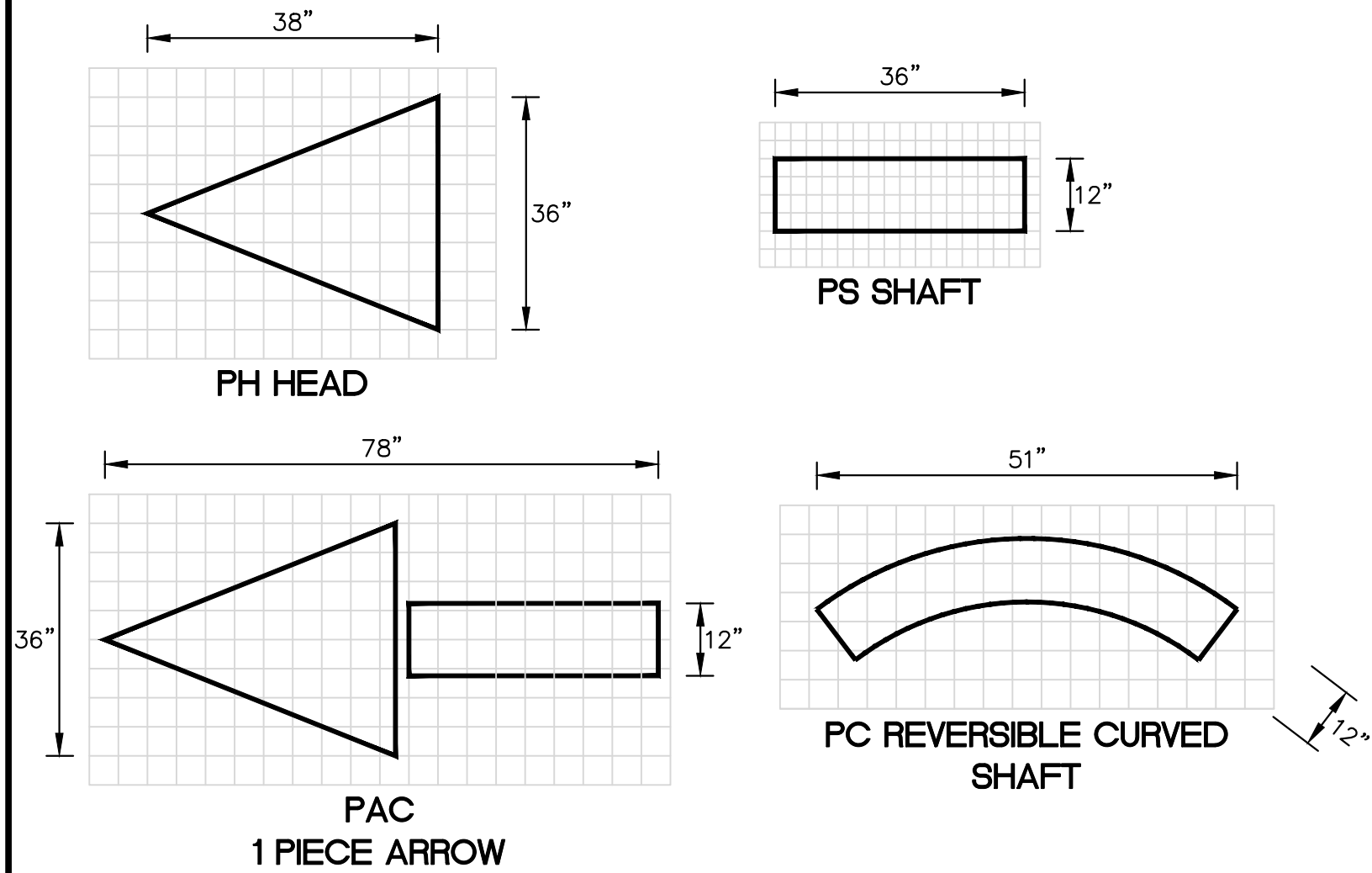
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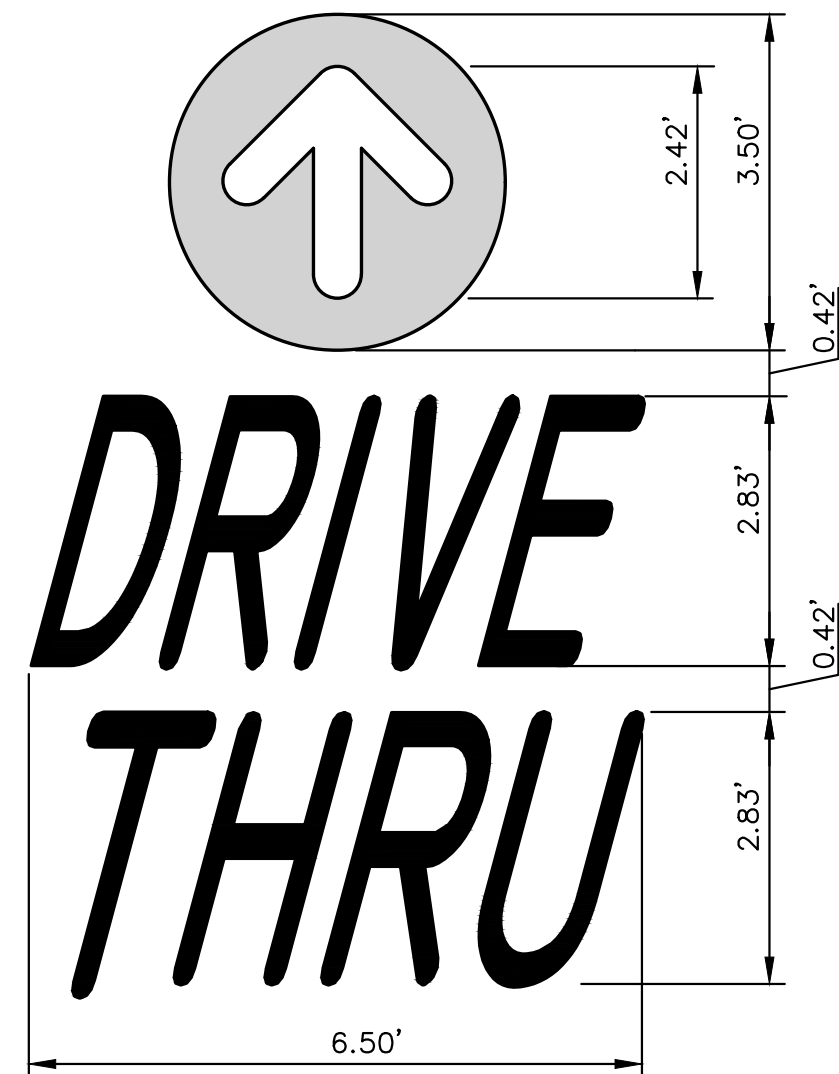
DT-2
LC #12-1434

DRIVE-THRU EQUIPMENT PLAN

PARKING LOT ARROWS (MEETS NO STATE OR FEDERAL DESIGN STANDARDS)

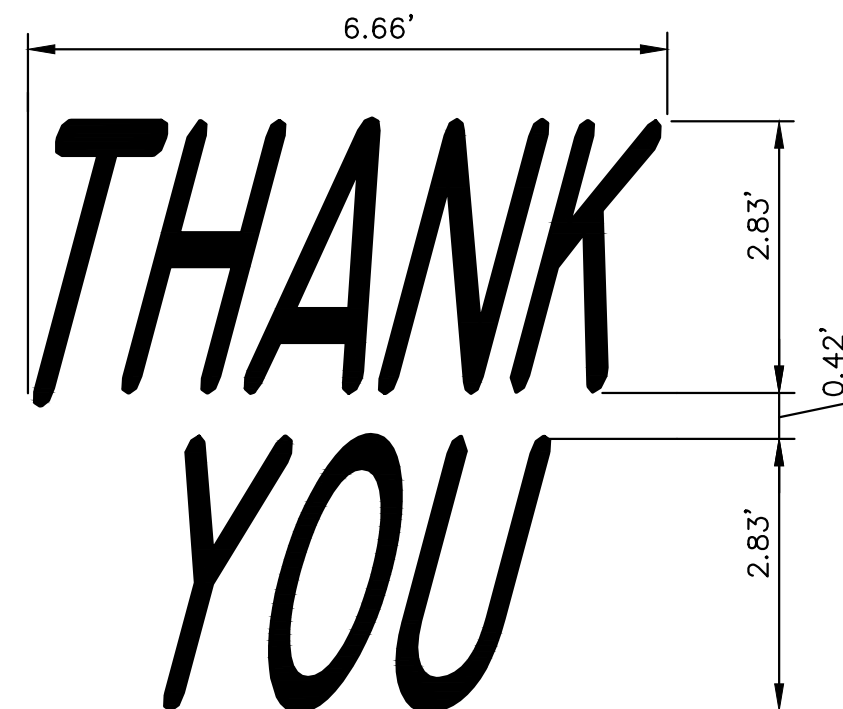


1 TYPICAL PAVEMENT MARKING DETAIL
DT-3



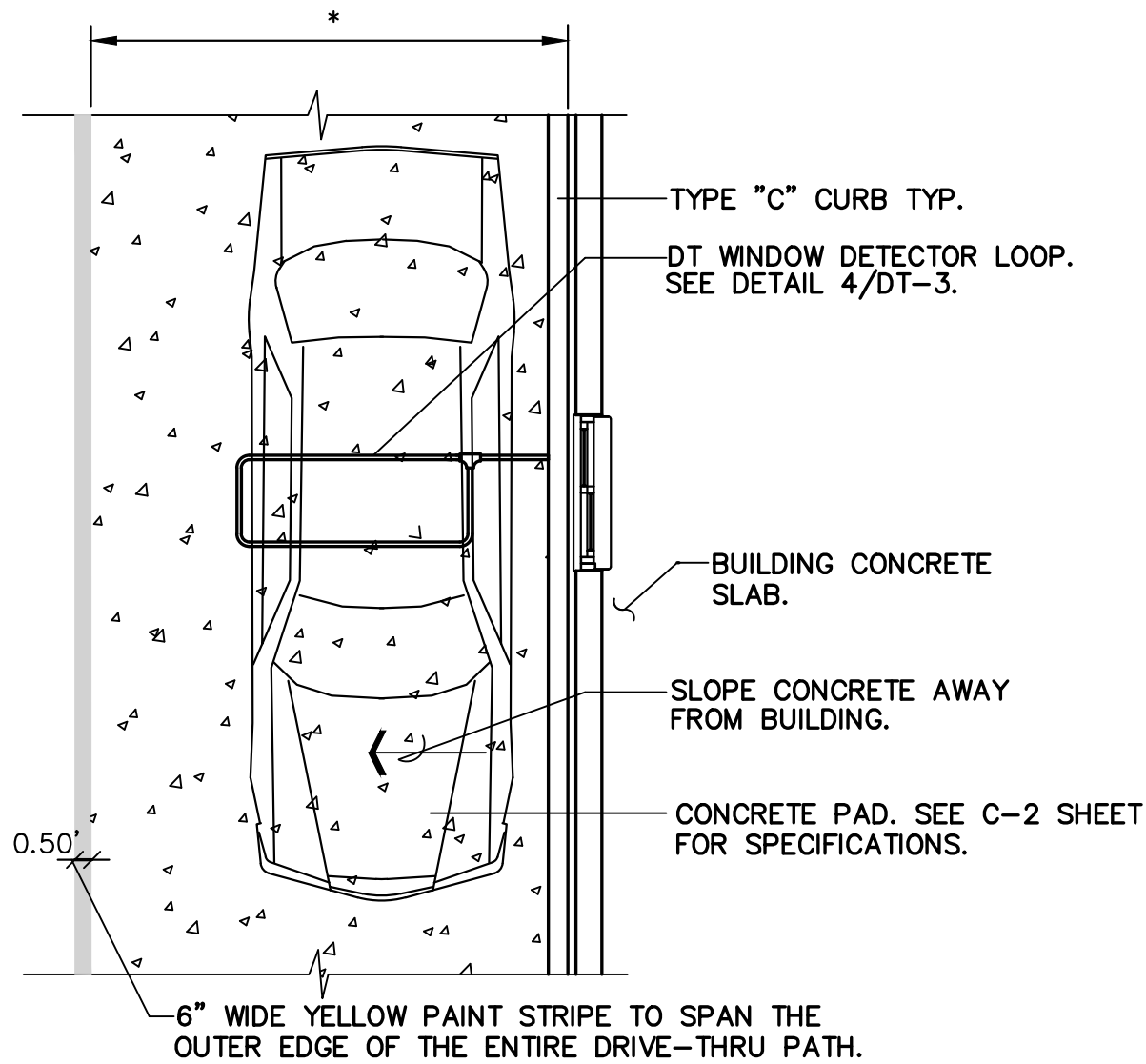
NOTE: ALL TEXT AND ARROW SHALL BE PAINTED YELLOW.

2 PAINTED "DRIVE-THRU" WITH ARROW DETAIL
DT-3



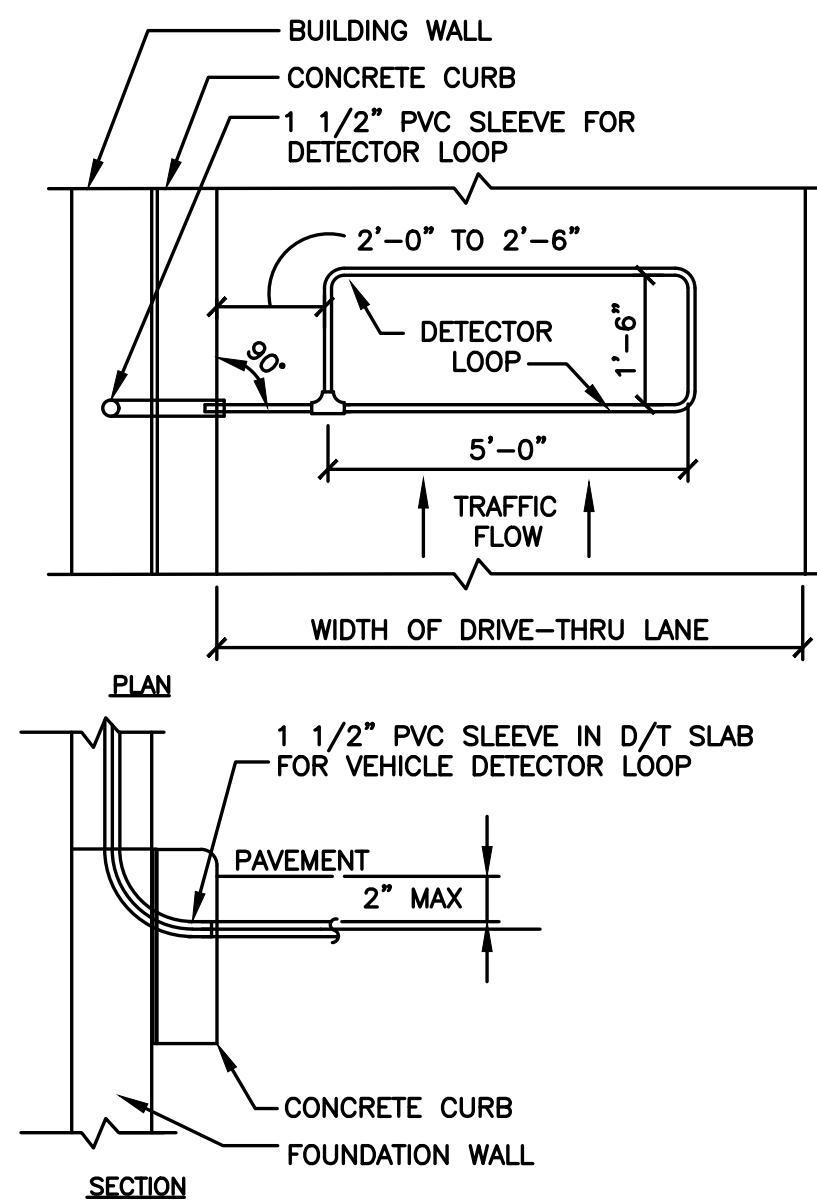
NOTE: ALL TEXT SHALL BE PAINTED YELLOW.

3 PAINTED "THANK-YOU" DETAIL
DT-3

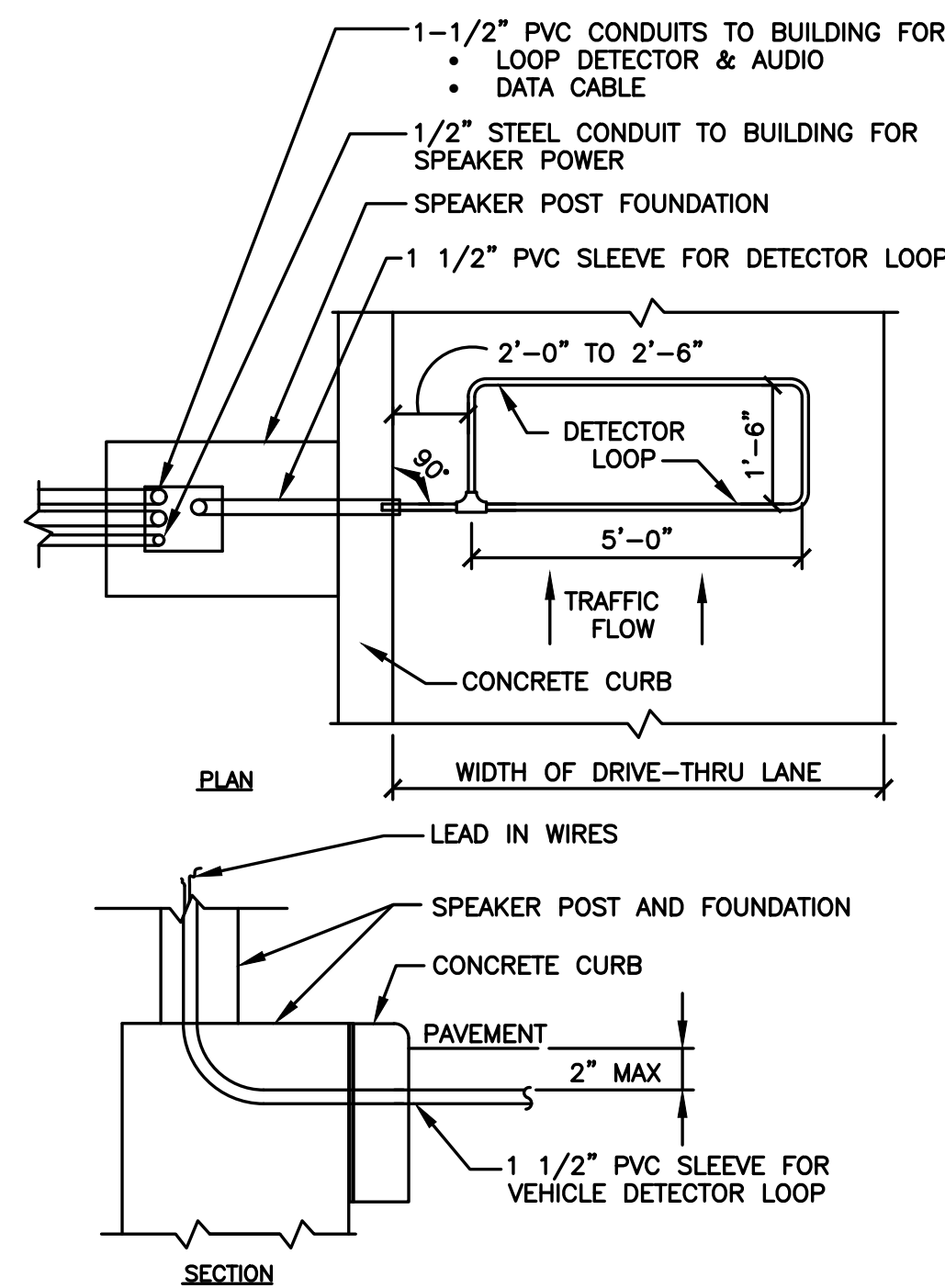


* FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD, SEE C-2 SHEET FOR SPECIFICATIONS.

5 DRIVE-THRU CONCRETE PAD DETAIL
DT-3



B - DT WINDOW DETECTOR LOOP

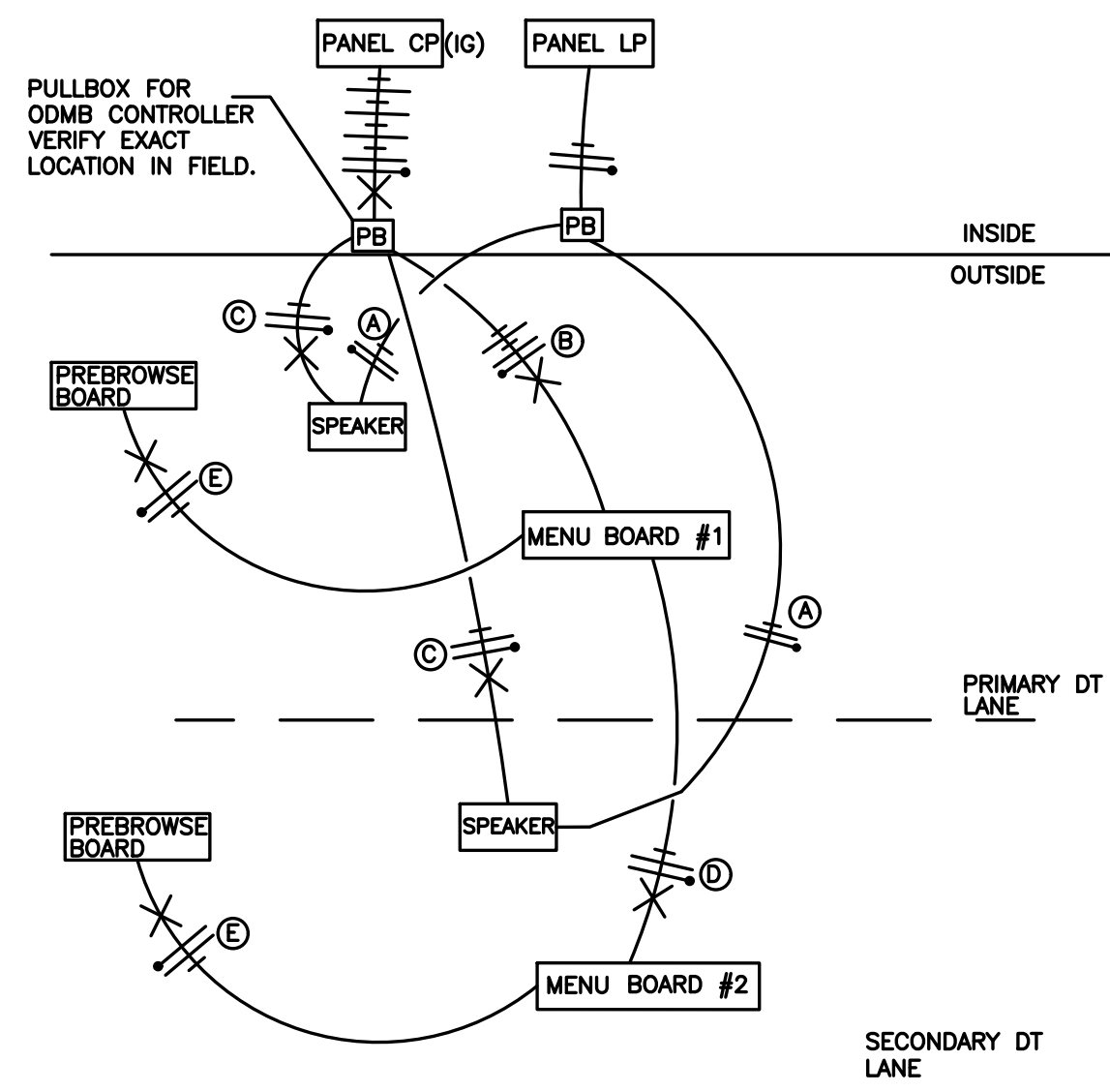


A - SPEAKER DETECTOR LOOP

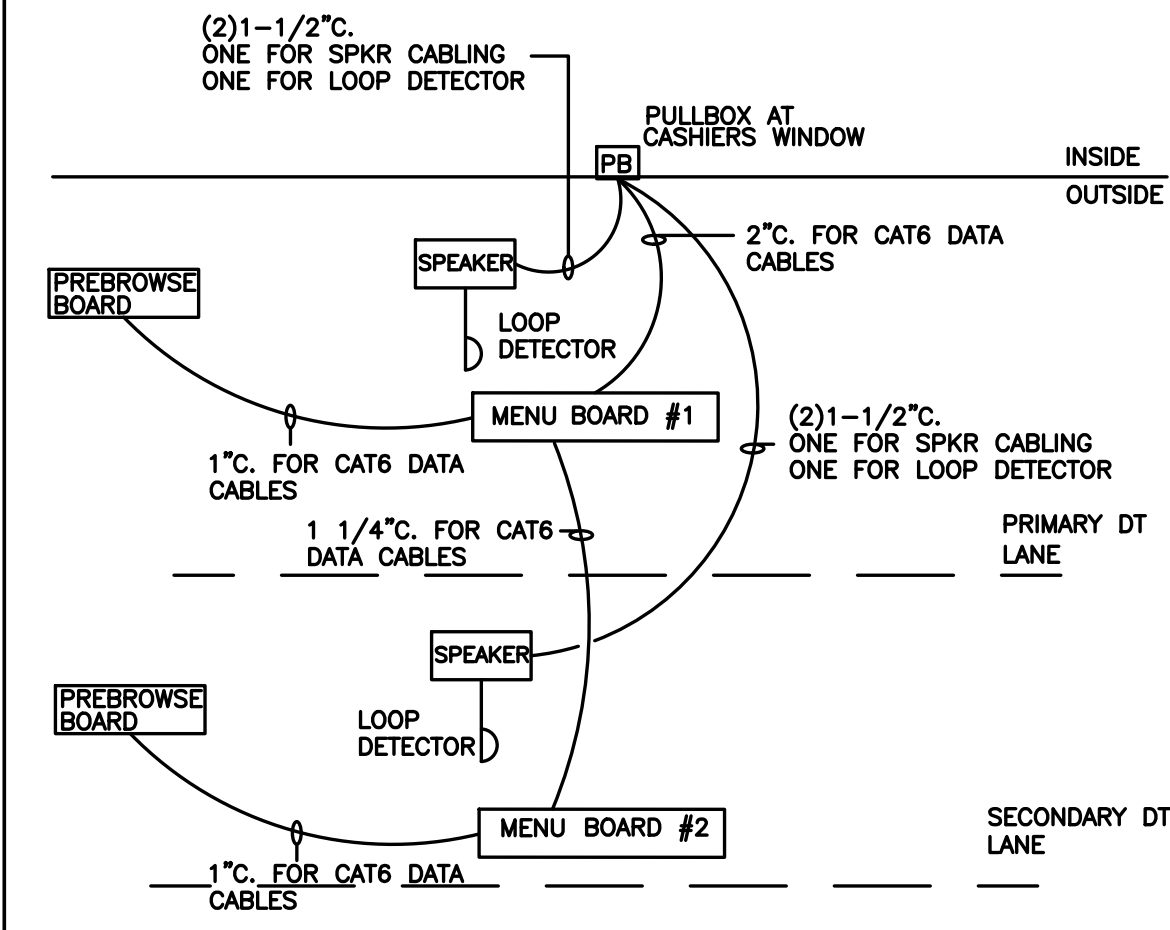
NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
4. DETECTOR LOOP MANUFACTURERS: DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
3M: 1-800-328-0033
HME: 1-800-848-4468
5. DETECTOR LOOP MATERIAL: PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
6. DETECTOR LOOP CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

4 DETECTOR LOOP DETAILS
DT-3
NOT TO SCALE



6 DRIVE THRU POWER DIAGRAM
DT-3
NOT TO SCALE



7 DT LOW VOLTAGE CONDUIT DIAGRAM
DT-3
NOT TO SCALE

NOTE:

* VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

FOR EXISTING LOCATIONS:

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

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

- A) 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.
- B) 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- C) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO COD'S. EACH COD SHALL BE ON ITS OWN SEPARATE CIRCUIT.
- D) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- E) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO FOR PRE-BROWSE BOARDS AND MEDIA PLAYER.

DRIVE-THRU DETAILS

| DATE | 08/05/19 |
|---------------|--------------|
| REVISIONS | NO REVISIONS |
| NO. | 1 |
| Prepared For: | |

McDonald's
711 Jorte Blvd., 3rd Floor
Oak Brook, IL 60523
McDONALD'S - ARLINGTON HEIGHTS, IL
45 E. Golf Road
Arlington Heights, Illinois

Prepared By:

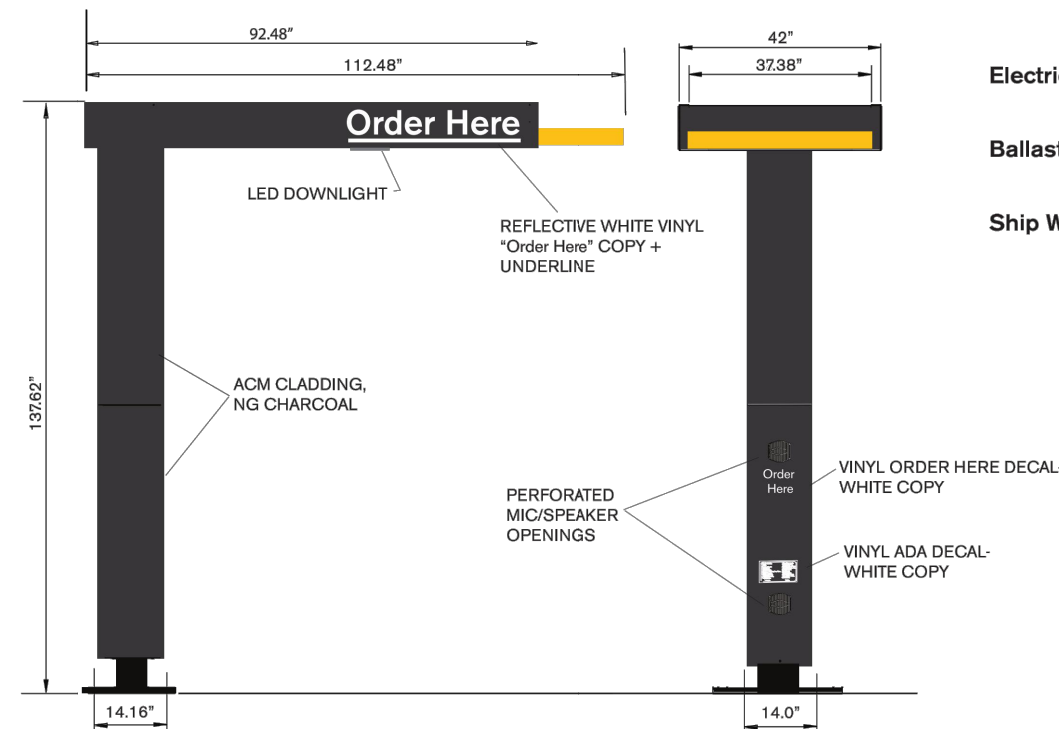
Watermark Engineering
RESOURCES LTD
2831 Ginger Woods Parkway, Suite 100, Aurora, IL 60502
phone 630-375-1800 fax 630-228-9800 www.watermark-engineering.com

| |
|----------------------------|
| CHECKED BY: J. MILLER |
| DESIGN BY: H. WITTENKELLER |
| DRAWN BY: K. SACK |
| DATE: JUNE 13, 2019 |
| SCALE: NONE |
| PROJECT NO.: 18-108 |

| DT-3 |
|-------------|
| LC #12-1434 |

DRIVE-THRU DETAILS

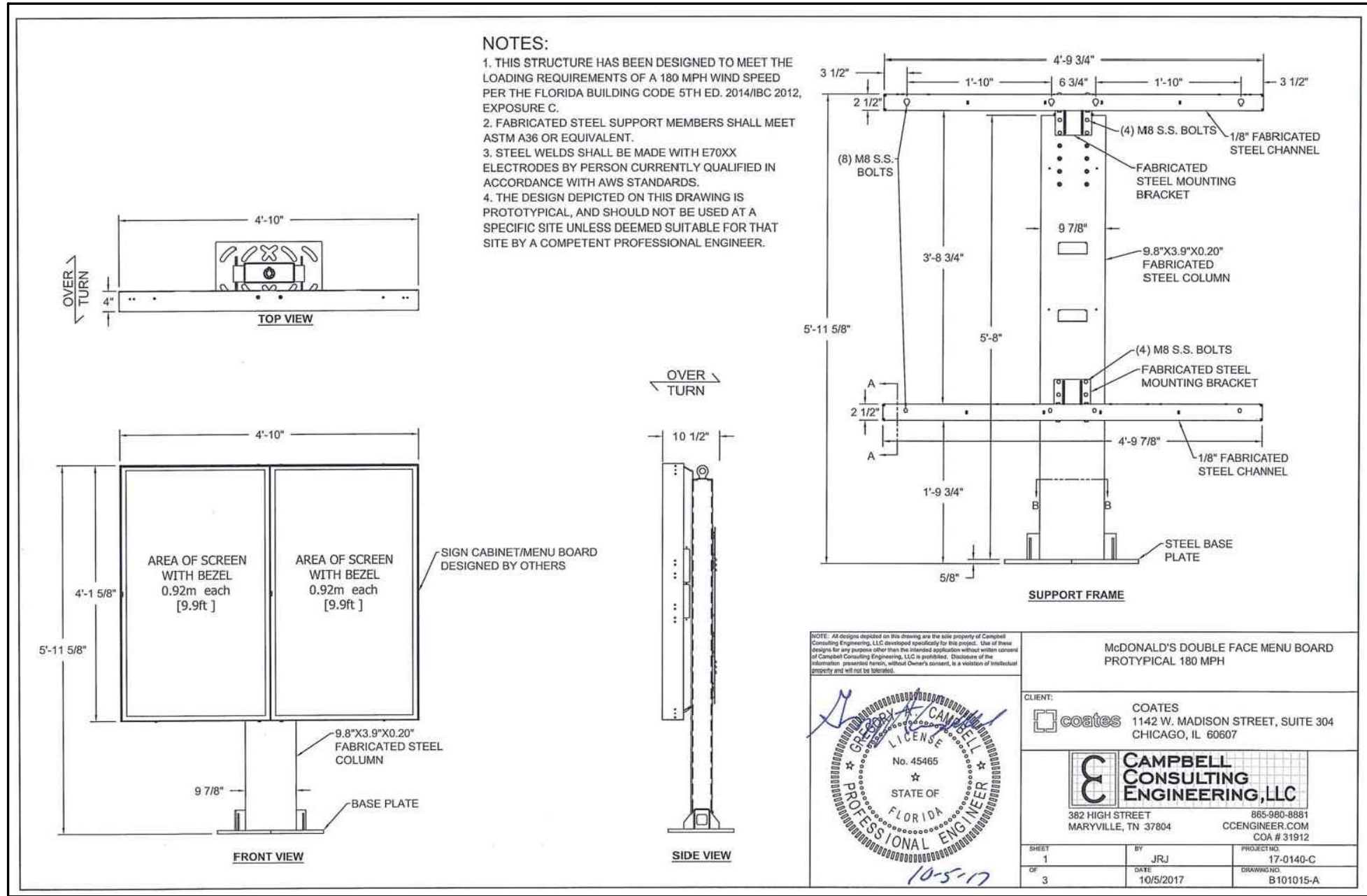
Slim Springboard Canopy w/Audio Only - Yellow



Illumination: LED Downlighting
Electrical: 1.5 Amps 120 volt, 60 Hz
Ballast:
Ship Weight:

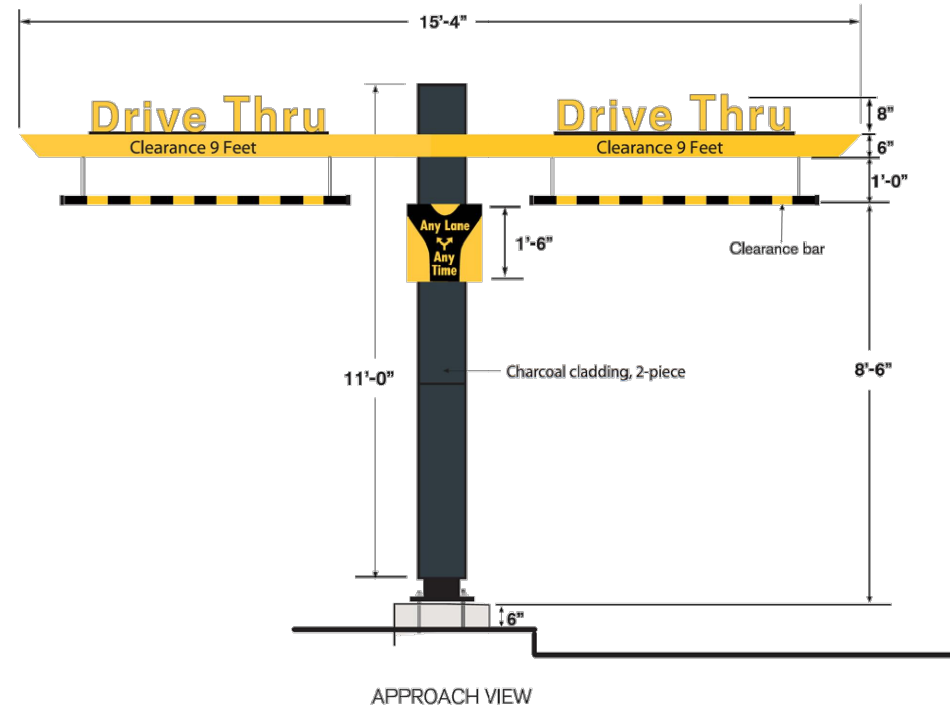
Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

1 DRIVE-THRU SPRINGBOARD CANOPY
DT-4 SEE SHEET SSD-2 FOR FOUNDATION DETAIL



2 ODMB MENU BOARD ELEVATIONS
DT-4 SEE SHEET SSD-1 FOR FOUNDATION DETAIL

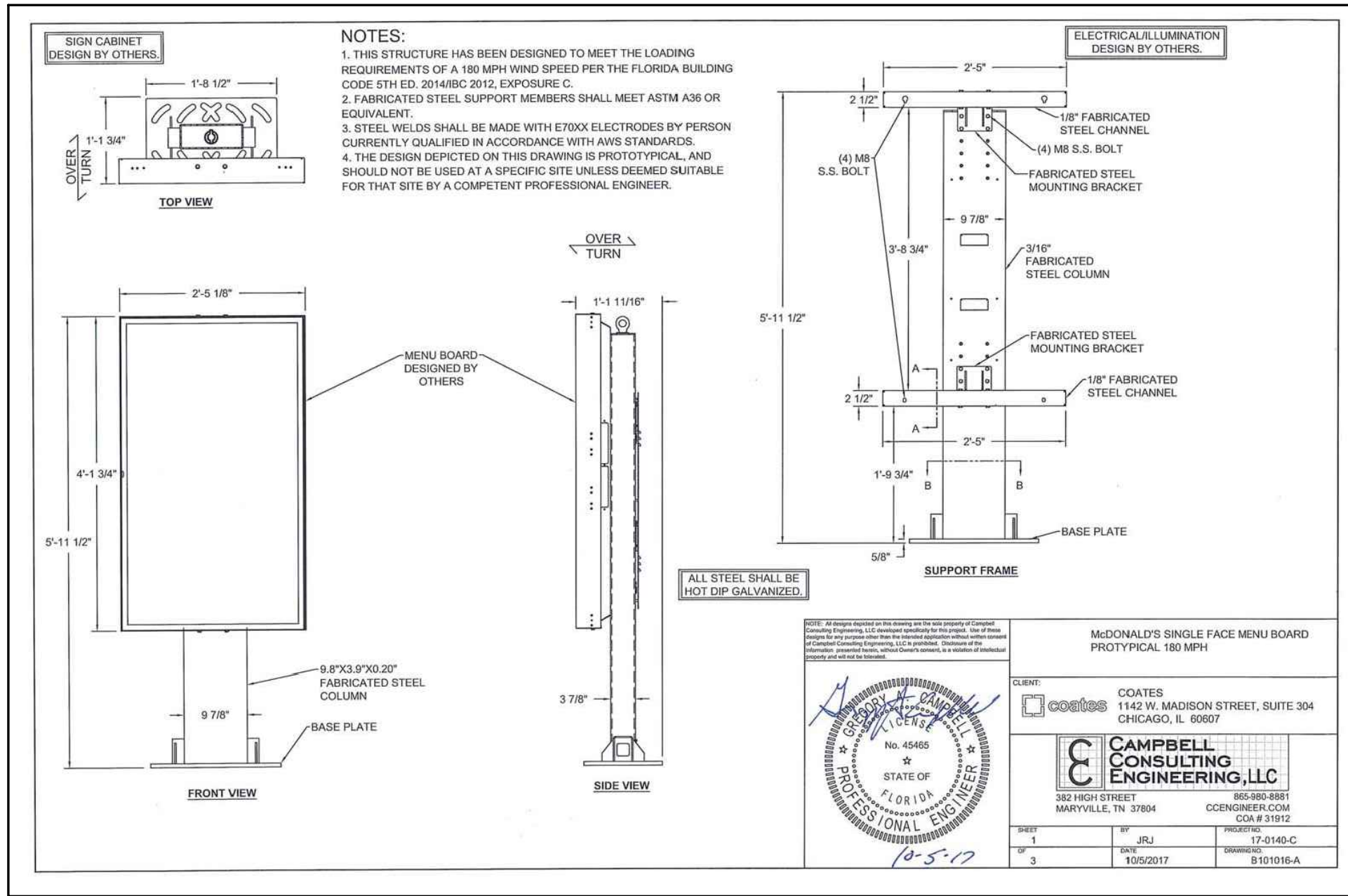
Double Welcome Point Gateway



Illumination: N/A
Other: • Non-illuminated clearance sign with spring loaded break away clearance arm.
• Adjustable bang bar.

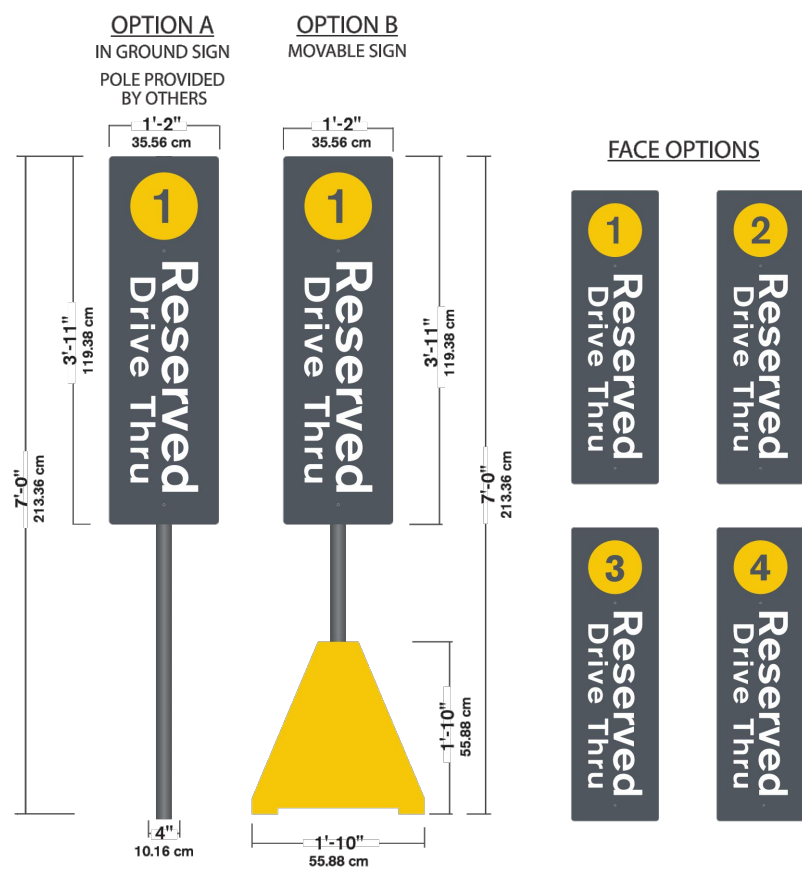
Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

3 DOUBLE WELCOME POINT GATEWAY
DT-4 SEE SHEET SSD-2 FOR FOUNDATION DETAIL



4 DIGITAL PRE-BROWSE BOARD
DT-4 SEE SHEET SSD-1 FOR FOUNDATION DETAIL

Pull Forward Sign

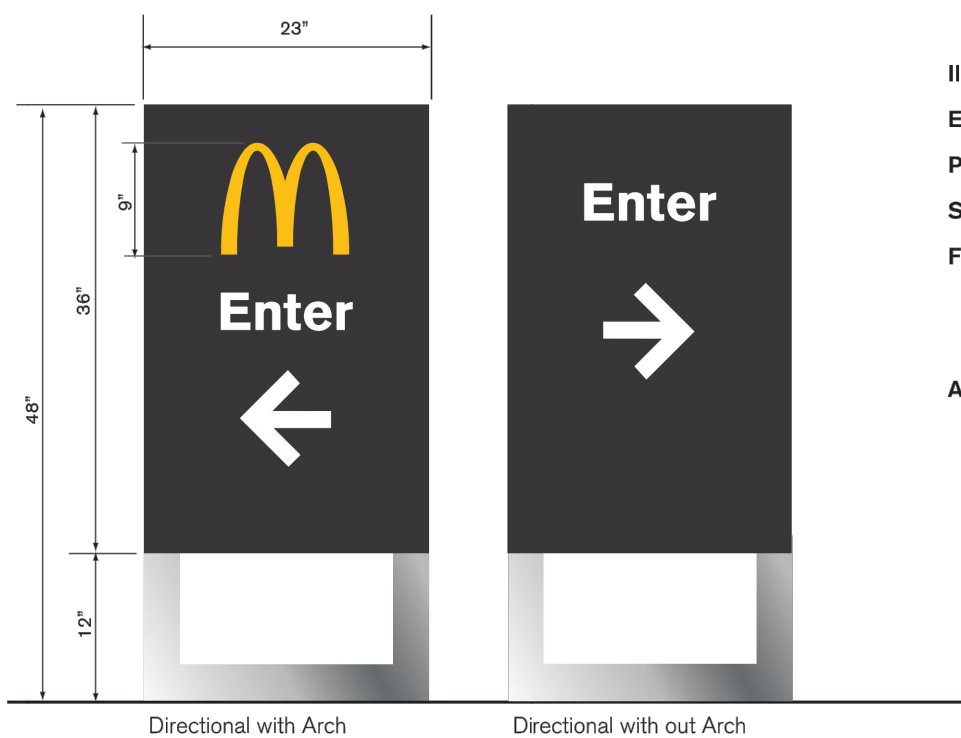


Illumination: N/A
Face Details: • Pigmented ABS panel to match PMS 425C with matte finish screened white. • Reserved Drive Thru copy, yellow reflective vinyl circles.

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

5 PULL FORWARD BOLLARD SIGN AND STRIPING DETAIL
DT-4

Next Gen Directional



Illumination: LED
Electrical: 25 amps
Power Supply: Amperor ANP90-30P1
Ship Weight: 130 lbs.
Face Details: Laser cut aluminum faces painted charcoal, white illuminated copy and arrow. Optional illuminated gold arch.
Available Copy: Enter, Exit, Welcome, Thank You, Drive-Thru

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

6 DIRECTIONAL SIGN
DT-4 SEE SHEET SSD-3 FOR FOUNDATION DETAIL

DRIVE-THRU DETAILS

| | | | | |
|---|----------------------------|---------------------|-------------|---------------------|
| CHECKED BY: J. MILLER | DESIGN BY: H. WITTENKELLER | DATE: JUNE 13, 2019 | SCALE: NONE | PROJECT NO.: 18-108 |
| DRAWN BY: K. SACK | | | | |
| 2631 Ginger Woods Parkway, Suite 100, Aurora, IL 61502 phone 630-375-1800 fax 630-238-9800 www.watermark-engineering.com | | | | |
| Watermark Engineering LLC | | | | |
| McDonald's | | | | |
| McDonald's - ARLINGTON HEIGHTS, IL 711 Jorte Blvd., 3rd Floor Oak Brook, IL 60523 45 E. Golf Road Arlington Heights, Illinois | | | | |
| Prepared For: | | | | |
| Prepared By: | | | | |
| DT-4 | | | | |
| LC #12-1434 | | | | |

STRUCTURAL NOTES:

DESIGN CODES:

- IBC 2012
- ASCE 7-10
- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS," FIFTH EDITION, 2009
- ACI 318-08
- AISC 13TH EDITION
- AWS D1.1

MATERIAL SPECIFICATIONS:

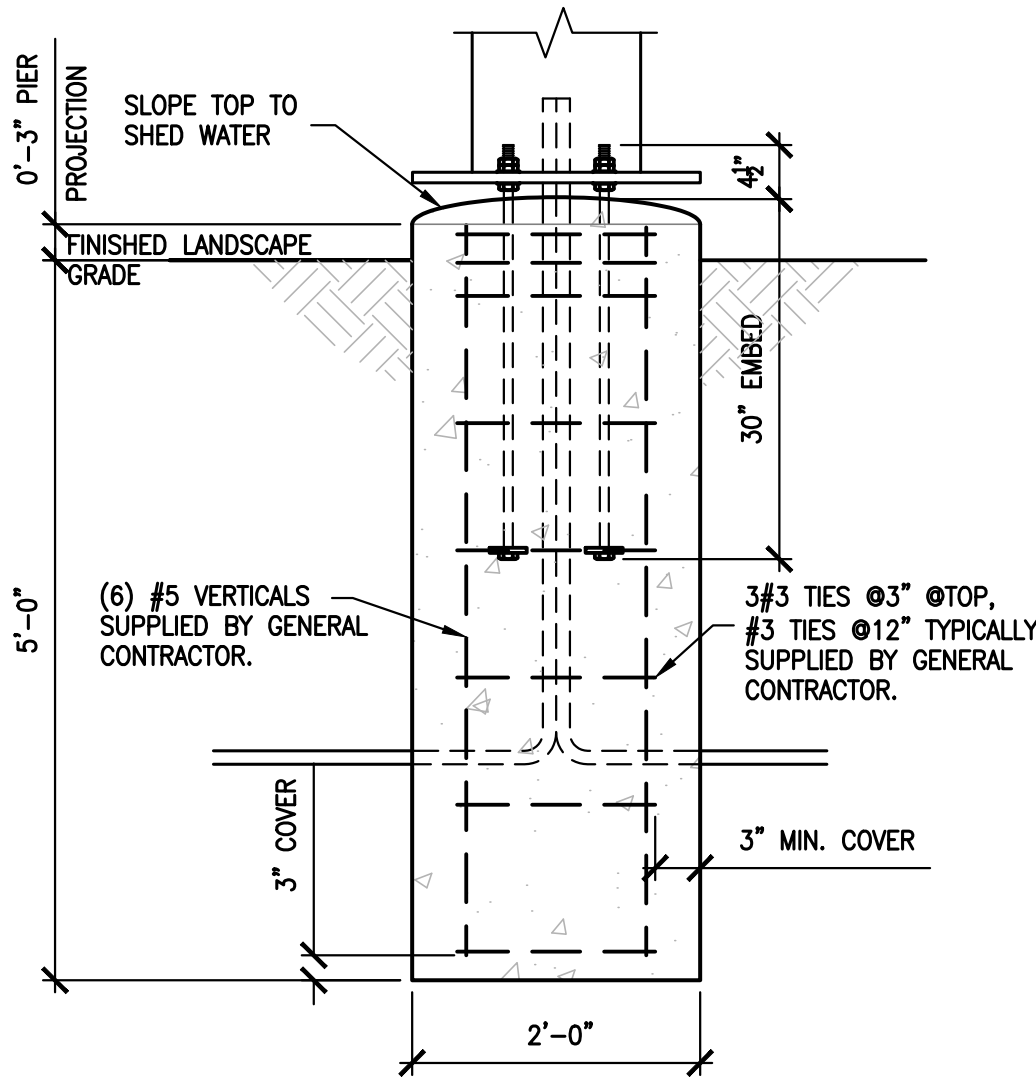
1. CONCRETE COMPRESSIVE STRENGTH ($f'c$) SHALL BE A MINIMUM OF 3000psi
2. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 OR GRADE 55, AS NOTED, HOT DIP GALVANIZED PER ASTM F2329
3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, SUPPLIED BY GENERAL CONTRACTOR
4. NUTS SHALL BE HEAVY HEX ASTM A563, HOT DIP GALVANIZED PER ASTM A153
5. PLATE SHALL BE ASTM A36, HOT DIP GALVANIZED PER ASTM A153
6. LOCK NUT SHALL BE HOT DIP GALVANIZED PER ASTM A153

FOUNDATION DESIGN PARAMETERS:

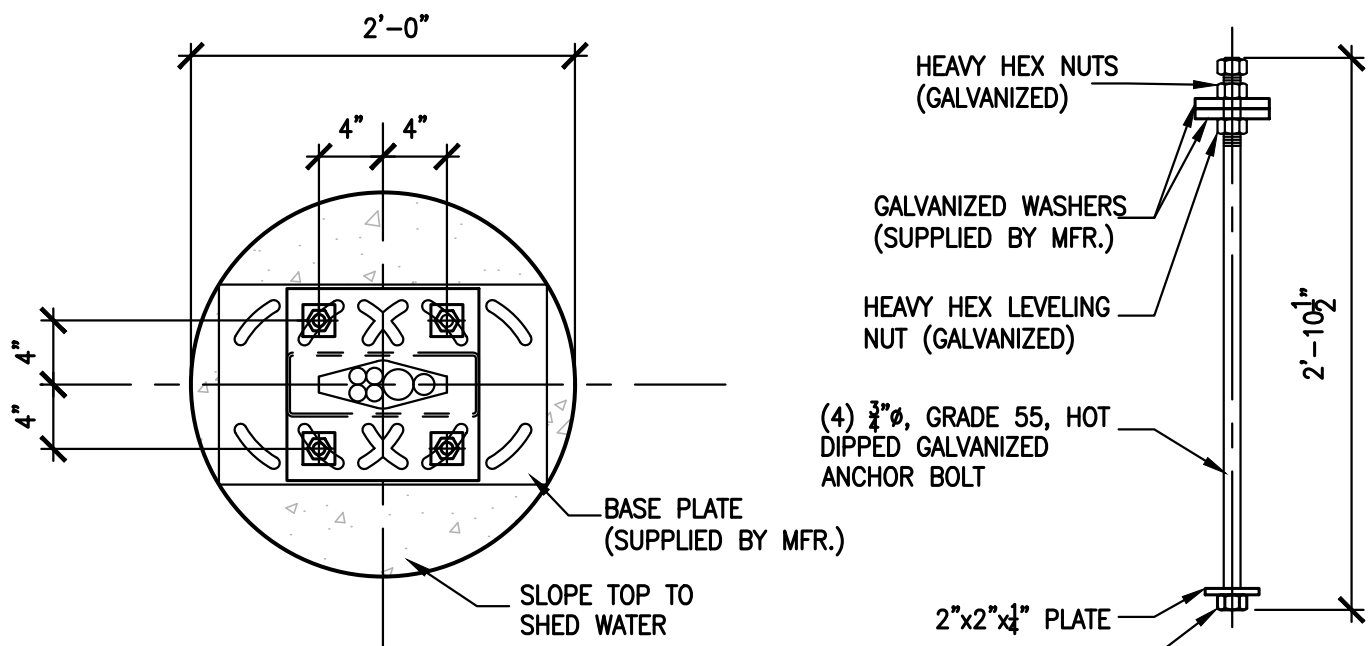
1. MAXIMUM WIND SPEED (3 SECOND GUST) = 90MPH
2. MINIMUM REQUIRED SOIL PARAMETERS:
 - COHESIVE SOILS:
 - SHEAR STRENGTH = 750 lbs/ft²
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - COHESIONLESS SOILS:
 - ANGLE OF INTERNAL FRICTION = 27 DEGREES
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3,000 lbs/ft²
4. PRIOR TO FABRICATION OF MATERIALS TO BE USED AT THIS SITE, THE GENERAL CONTRACTOR SHALL EMPLOY A SOILS TESTING AGENCY TO PREPARE A SITE SPECIFIC SOIL REPORT TO ESTABLISH THE SOIL PARAMETERS NOTED ABOVE. IF THE MINIMUM PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
5. ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING AGENCY TO VERIFY THE SITE SOIL CONDITIONS MEET OR EXCEEDED THE PARAMETERS LISTED ABOVE BEFORE THIS DESIGN IS USED.
6. THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND SPEED FOR THE UNIT 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.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
8. THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:

1. PIER DEPTHS SHOWN ARE REQUIRED MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
2. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
3. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS, (EMBEDMENT DEPTHS SHOWN ARE FORM GRADE).
4. PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCING BARS, UNLESS NOTED OTHERWISE.
5. ALL REINFORCING BY GENERAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.



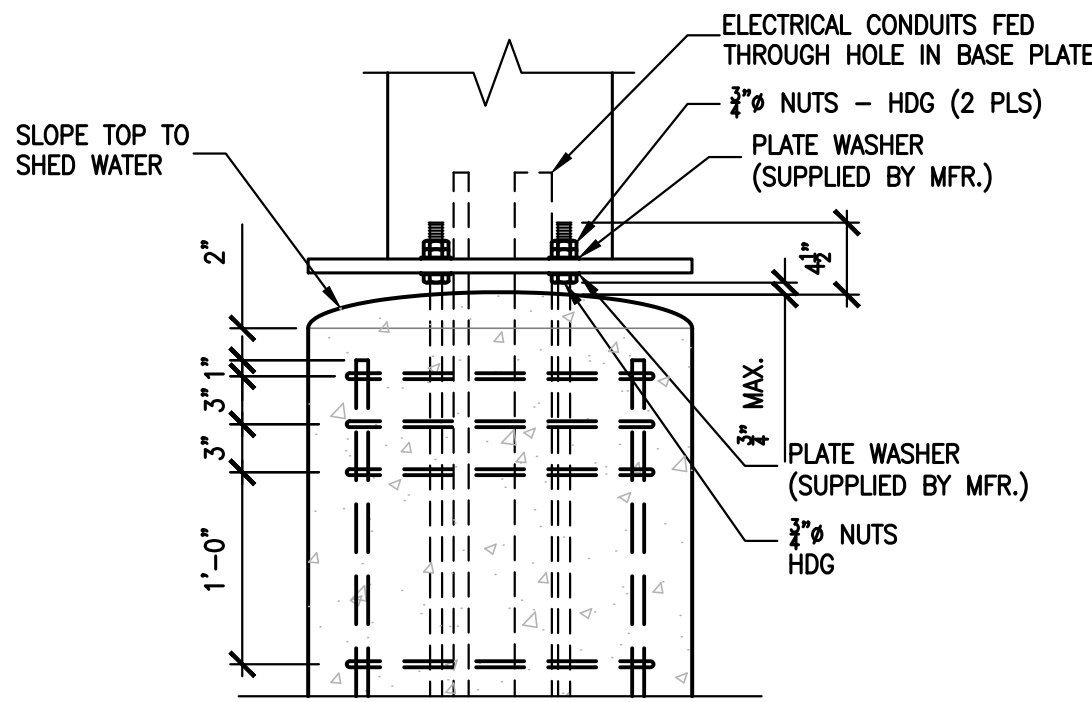
A FOUNDATION SECTION
3/4" = 1'-0"



ANCHOR BOLT LAYOUT PLAN VIEW

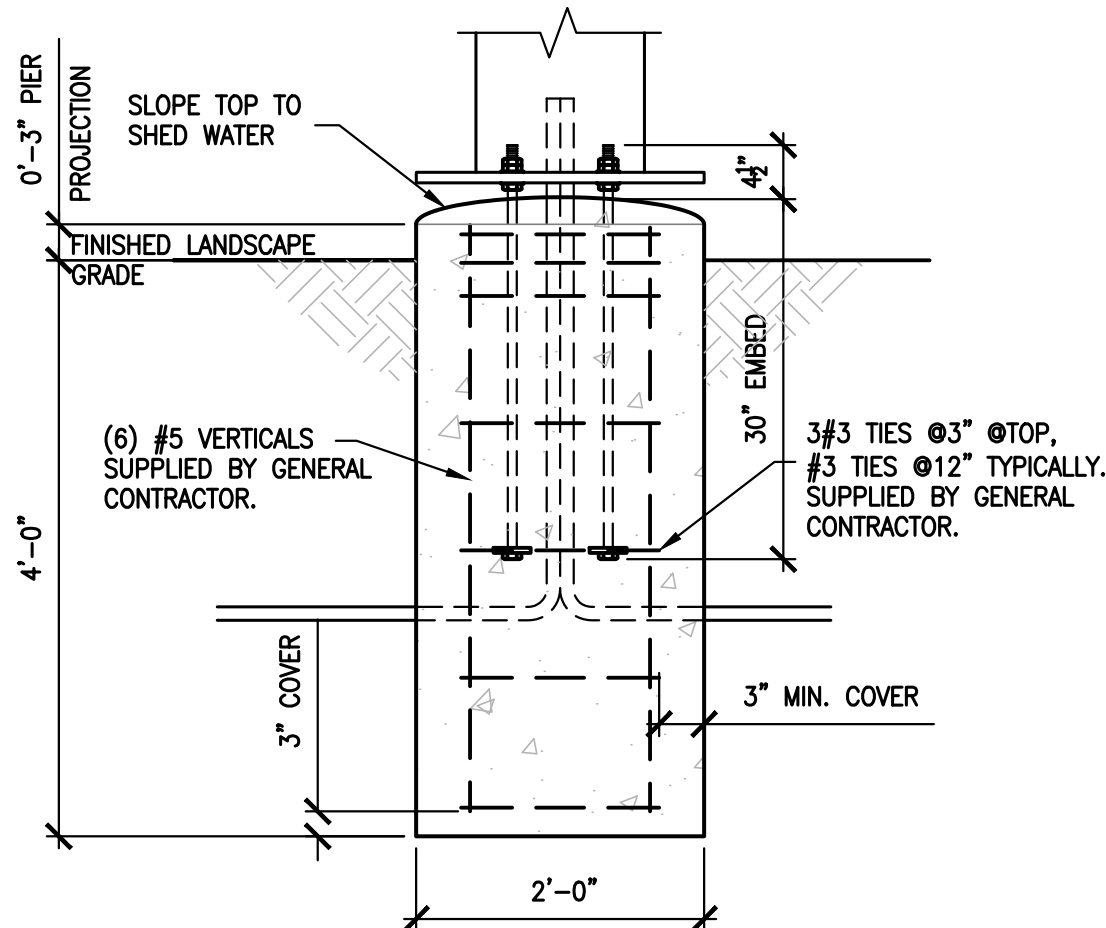
ANCHOR BOLT DETAIL

B ANCHOR BOLT DETAILS
1" = 1'-0"

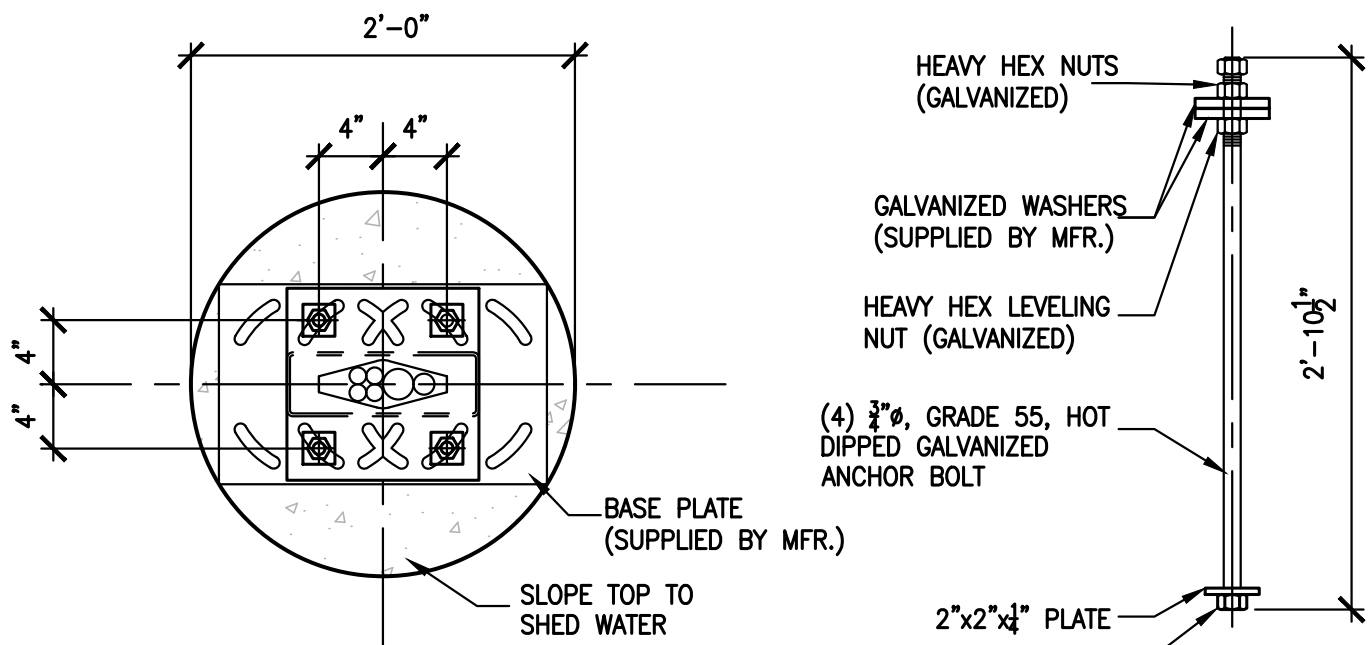


C CONNECTION DETAIL
1" = 1'-0"

ODMB MENU BOARD FOUNDATION



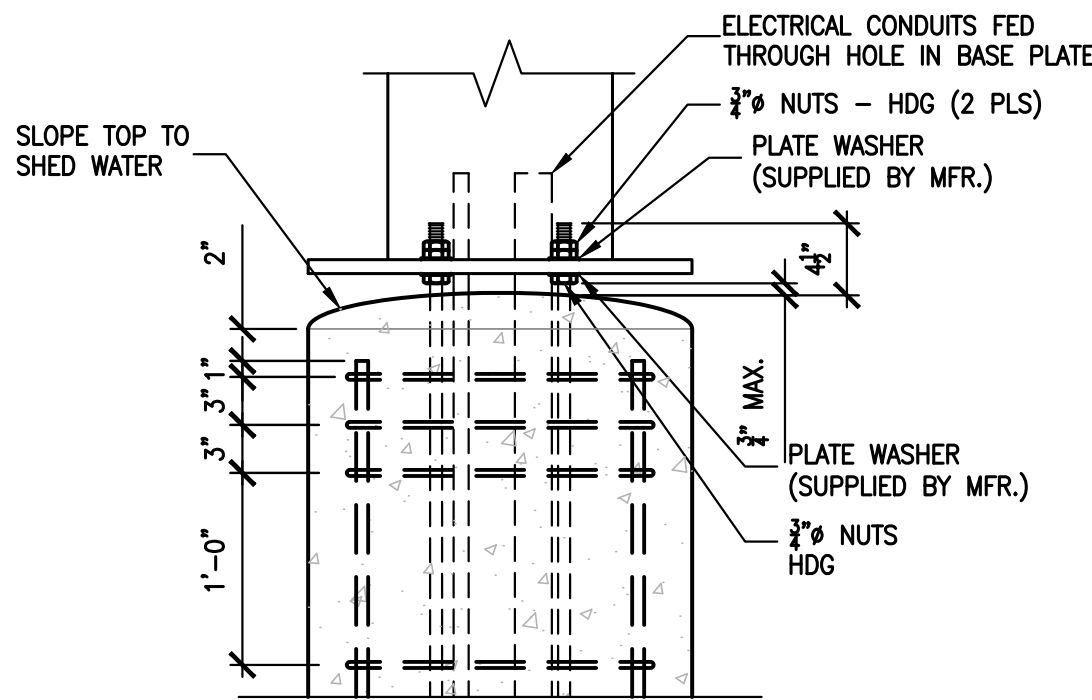
A FOUNDATION SECTION
3/4" = 1'-0"



ANCHOR BOLT LAYOUT PLAN VIEW

ANCHOR BOLT DETAIL

B ANCHOR BOLT DETAILS
1" = 1'-0"



C CONNECTION DETAIL
1" = 1'-0"

DIGITAL PRE-BROWSE BOARD FOUNDATION

| | | | | | |
|--|---------------|--------------|----------------------|--------------|---------------------|
| CHECKED BY: SN | DESIGN BY: GM | DRAWN BY: GM | DATE: APRIL 29, 2019 | SCALE: NOTED | PROJECT NO.: 18-108 |
| SSD-1 | | | | | |
| LC #12-1434 | | | | | |
| MENU BOARD + PRE-BROWSE BOARD FOUNDATIONS | | | | | |
| Prepared By: SAMARTANO AND COMPANY STRUCTURAL ENGINEERS 1700 WEST CORTLAND STREET CHICAGO, ILLINOIS 60622 312.392.2329 | | | | | |
| Prepared For: McDonald's 711 Jorie Blvd Oak Brook, IL 60523 McDonald's - ARLINGTON HEIGHTS, IL 45 East Golf Road Arlington Heights, Illinois | | | | | |
| DATE | | | | | |
| REVISES | | | | | |
| NO. | | | | | |
| EXPIRES: 11/30/20 | | | | | |

STRUCTURAL NOTES:

DESIGN CODES:

- IBC 2012
- ASCE 7-10
- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS," FIFTH EDITION, 2009
- ACI 318-08
- AISC 13TH EDITION
- AWS D1.1

MATERIAL SPECIFICATIONS:

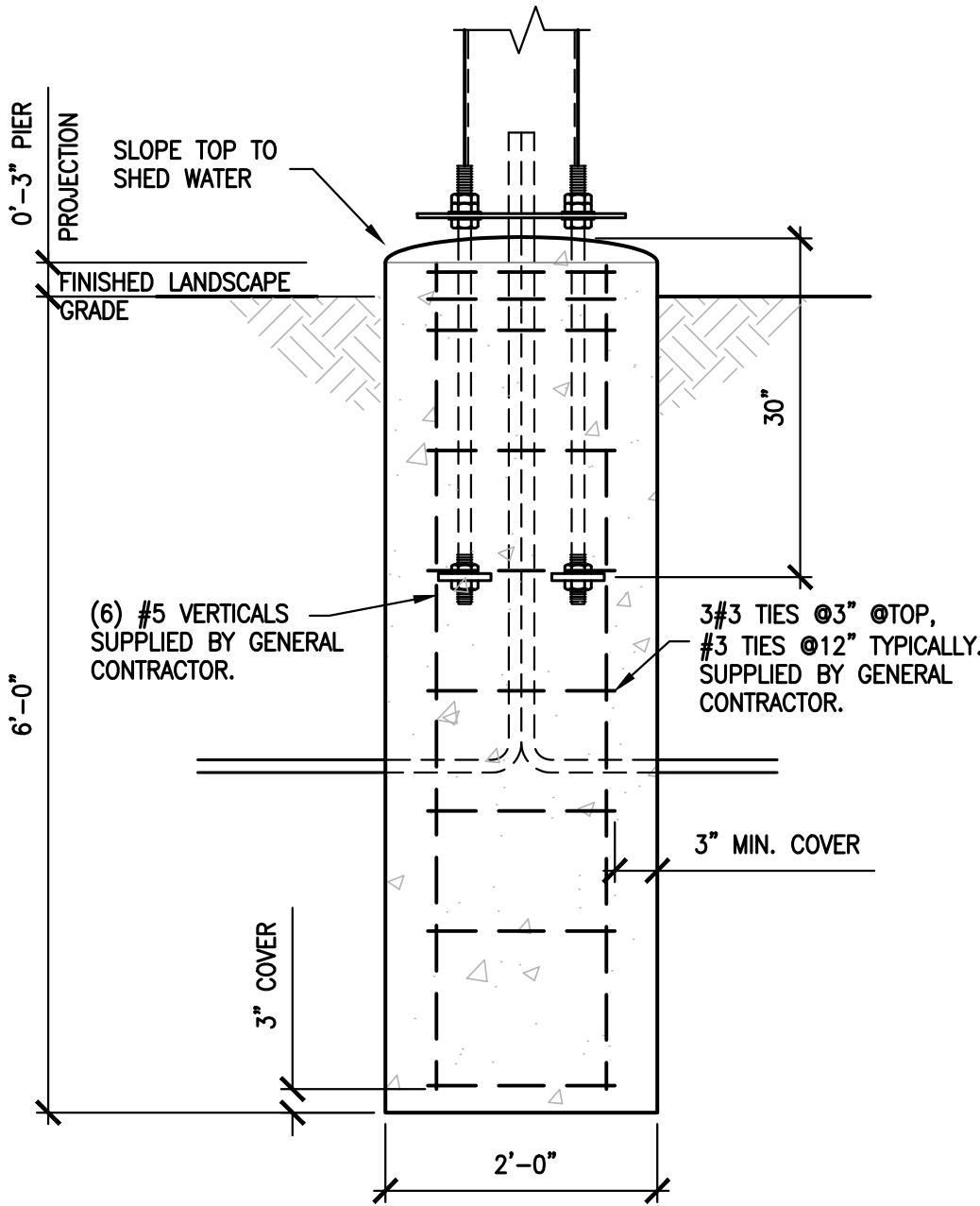
1. CONCRETE COMPRESSIVE STRENGTH ($f'c$) SHALL BE A MINIMUM OF 3000psi
2. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 OR GRADE 55, AS NOTED, HOT DIP GALVANIZED PER ASTM F2329
3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, SUPPLIED BY GENERAL CONTRACTOR
4. NUTS SHALL BE HEAVY HEX ASTM A563, HOT DIP GALVANIZED PER ASTM A153
5. PLATE SHALL BE ASTM A36, HOT DIP GALVANIZED PER ASTM A153
6. LOCK NUT SHALL BE HOT DIP GALVANIZED PER ASTM A153

FOUNDATION DESIGN PARAMETERS:

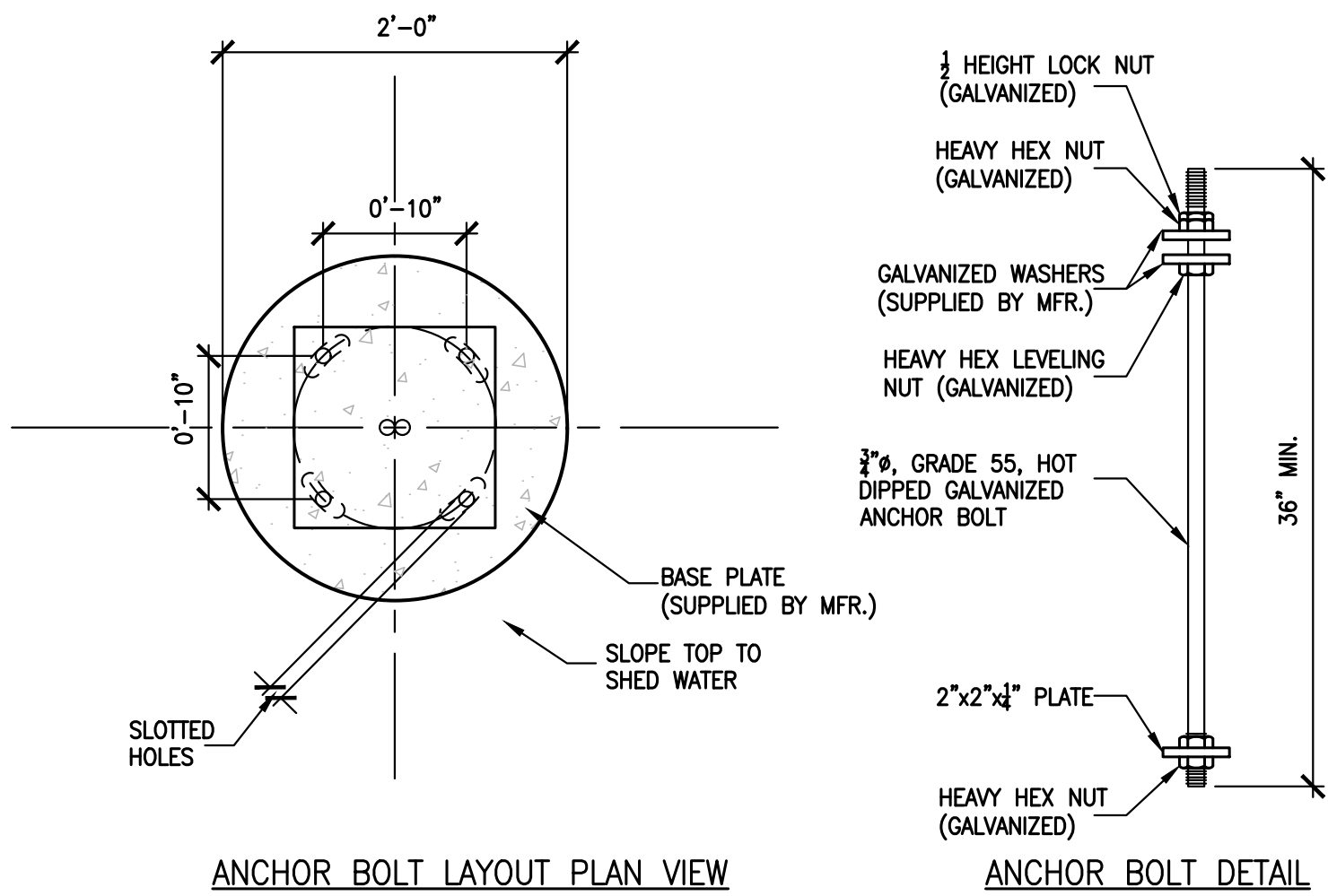
1. MAXIMUM WIND SPEED (3 SECOND GUST) = 90MPH
2. MINIMUM REQUIRED SOIL PARAMETERS:
 - COHESIVE SOILS:
 - SHEAR STRENGTH = 750 lbs/ft²
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - COHESIONLESS SOILS:
 - ANGLE OF INTERNAL FRICTION = 27 DEGREES
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3,000 lbs/ft²
4. PRIOR TO FABRICATION OF MATERIALS TO BE USED AT THIS SITE, THE GENERAL CONTRACTOR SHALL EMPLOY A SOILS TESTING AGENCY TO PREPARE A SITE SPECIFIC SOIL REPORT TO ESTABLISH THE SOIL PARAMETERS NOTED ABOVE. IF THE MINIMUM PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
5. ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING AGENCY TO VERIFY THE SITE SOIL CONDITIONS MEET OR EXCEEDED THE PARAMETERS LISTED ABOVE BEFORE THIS DESIGN IS USED.
6. THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND SPEED FOR THE UNIT 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.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
8. THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:

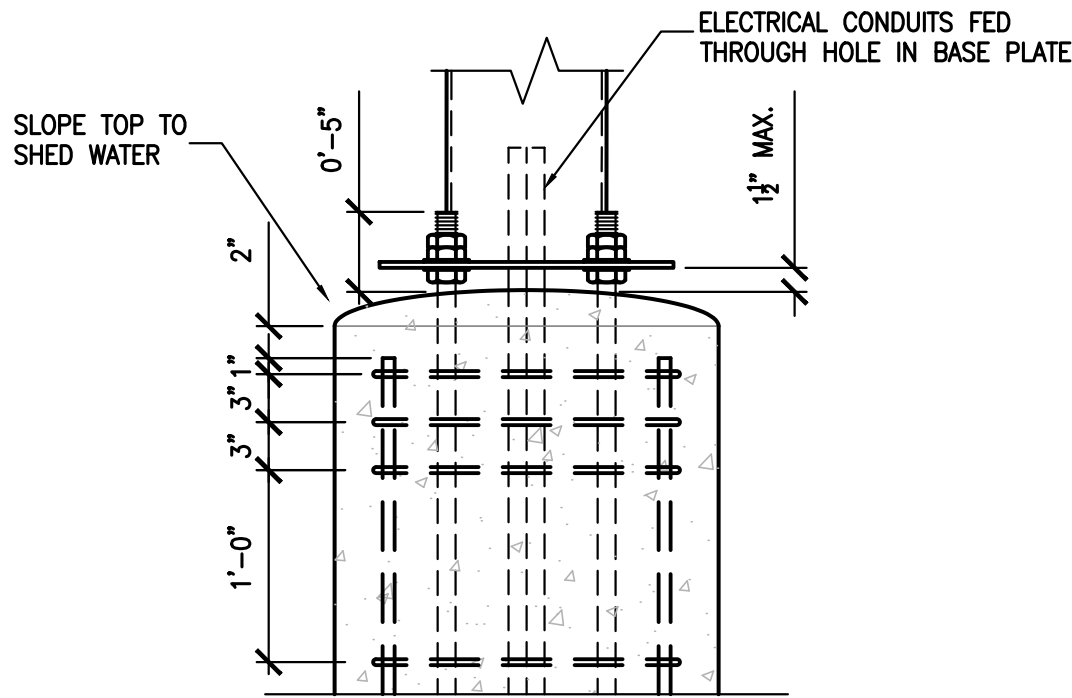
1. PIER DEPTHS SHOWN ARE REQUIRED MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
2. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
3. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS, (EMBEDMENT DEPTHS SHOWN ARE FORM GRADE).
4. PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCING BARS, UNLESS NOTED OTHERWISE.
5. ALL REINFORCING BY GENERAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.



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

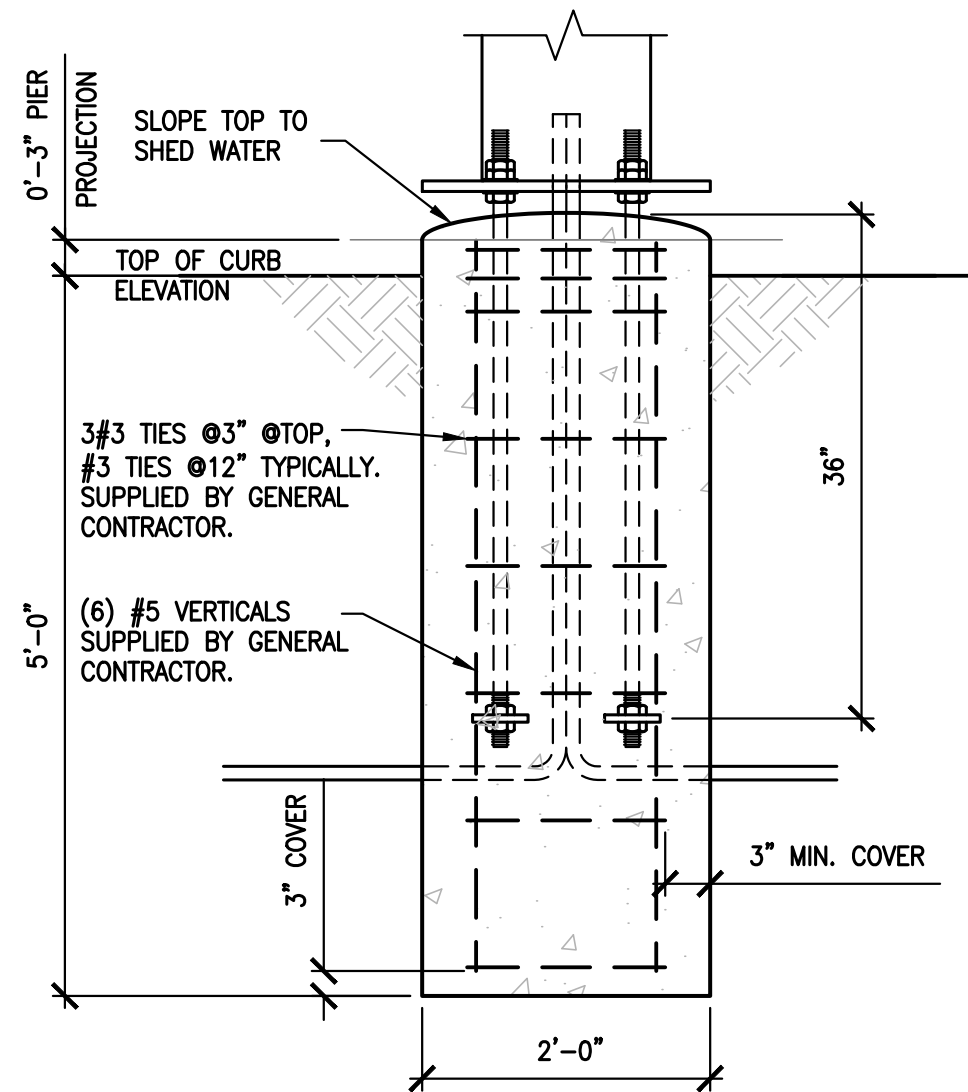


B ANCHOR BOLT DETAILS
1" = 1'-0"

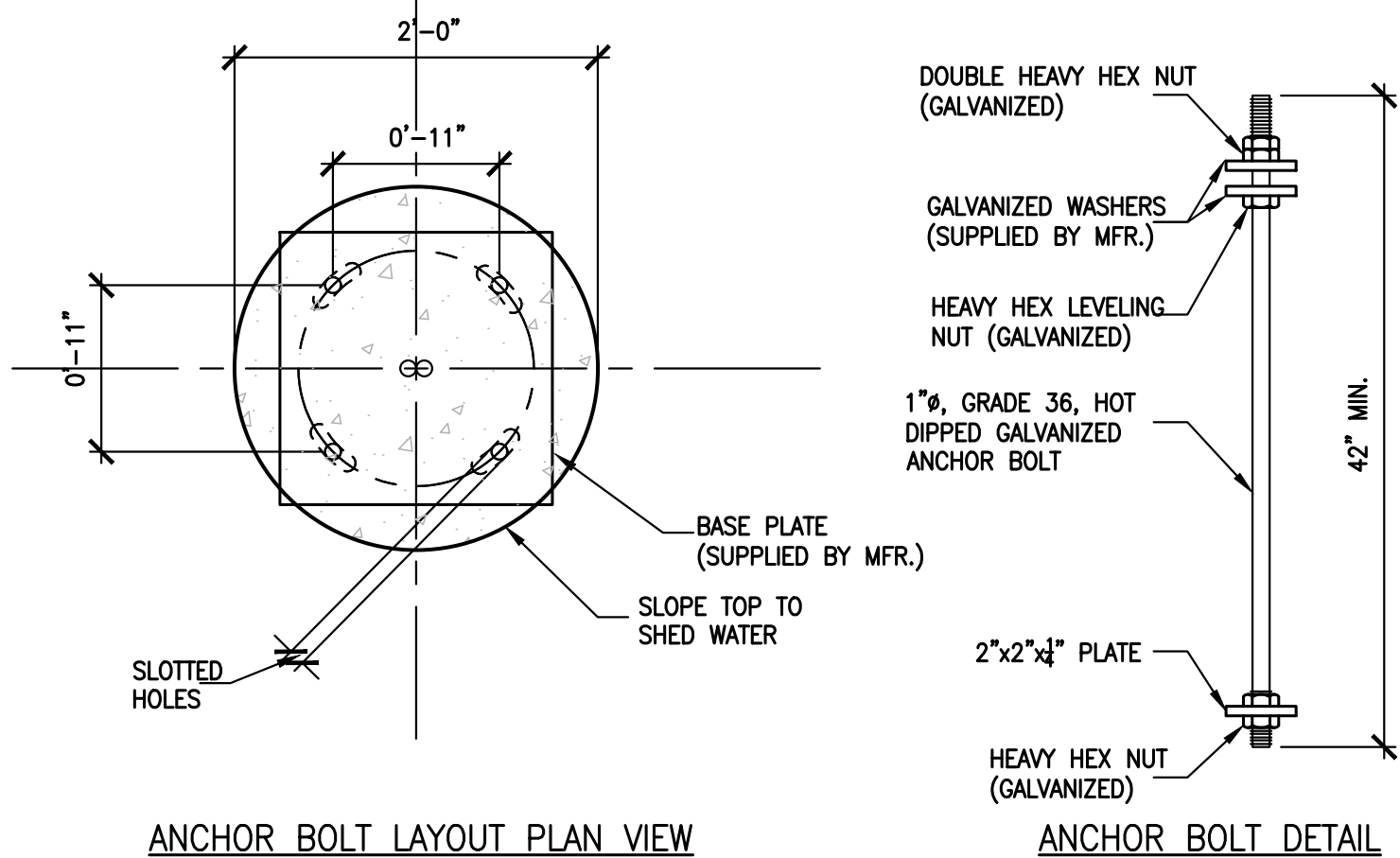


C CONNECTION DETAIL
1" = 1'-0"

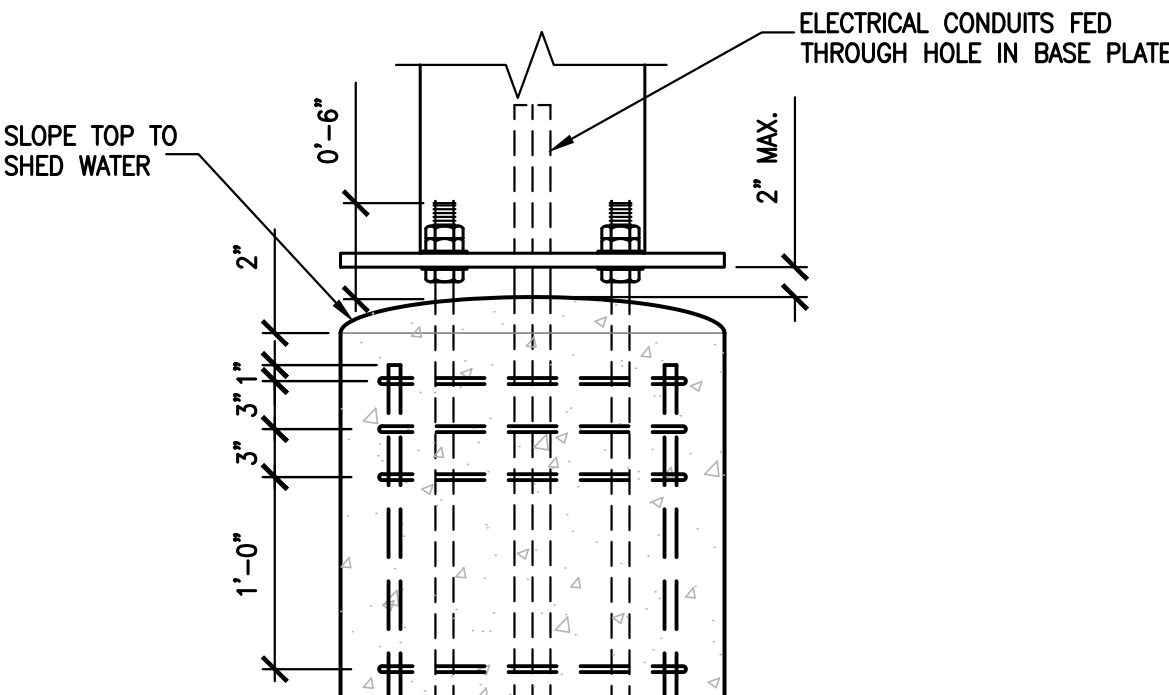
DOUBLE WELCOME POINT GATEWAY FOUNDATION



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



B ANCHOR BOLT DETAILS
1" = 1'-0"



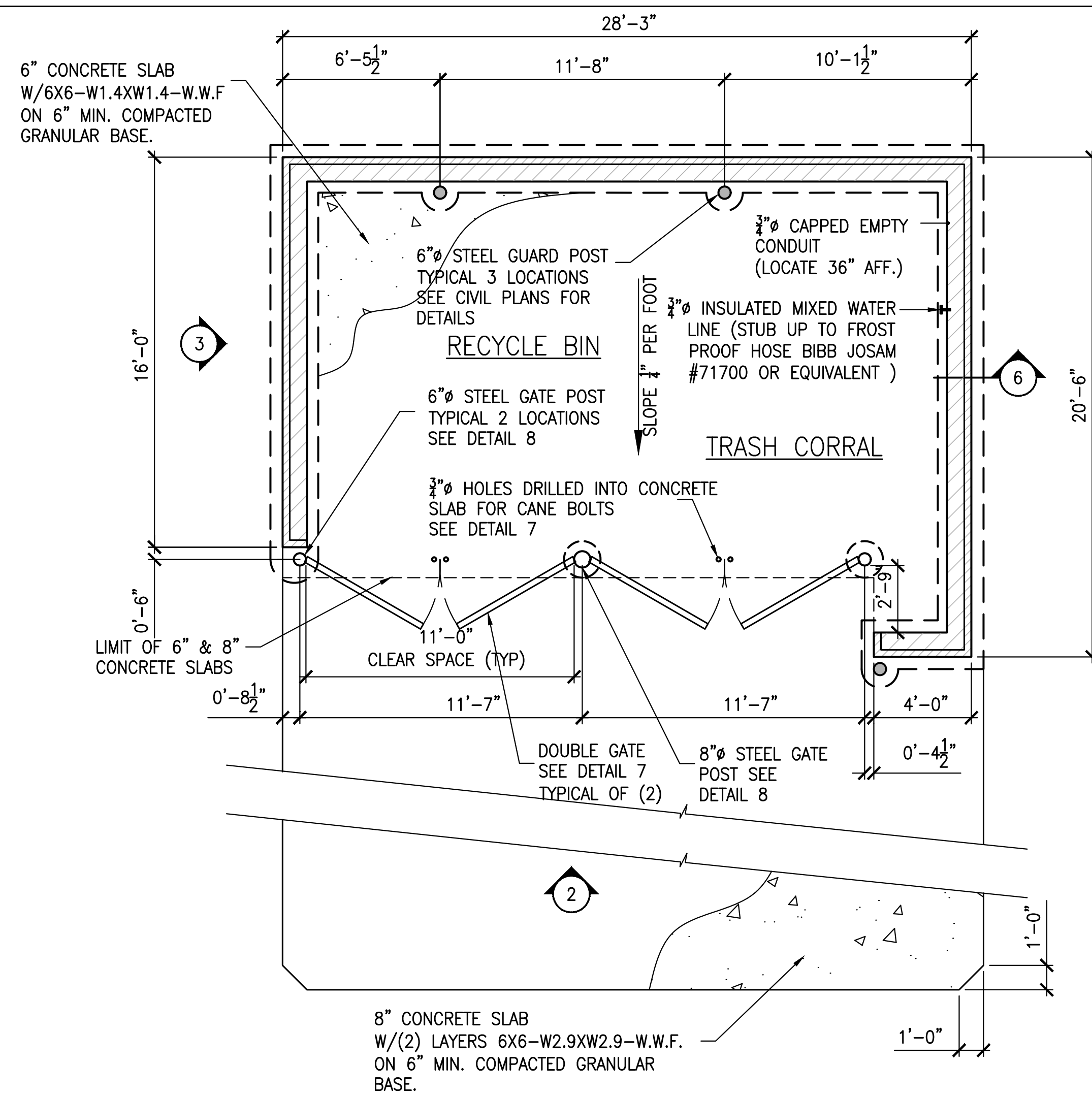
C CONNECTION DETAIL
1" = 1'-0"

DRIVE-THRU SPRINGBOARD CANOPY FOUNDATION

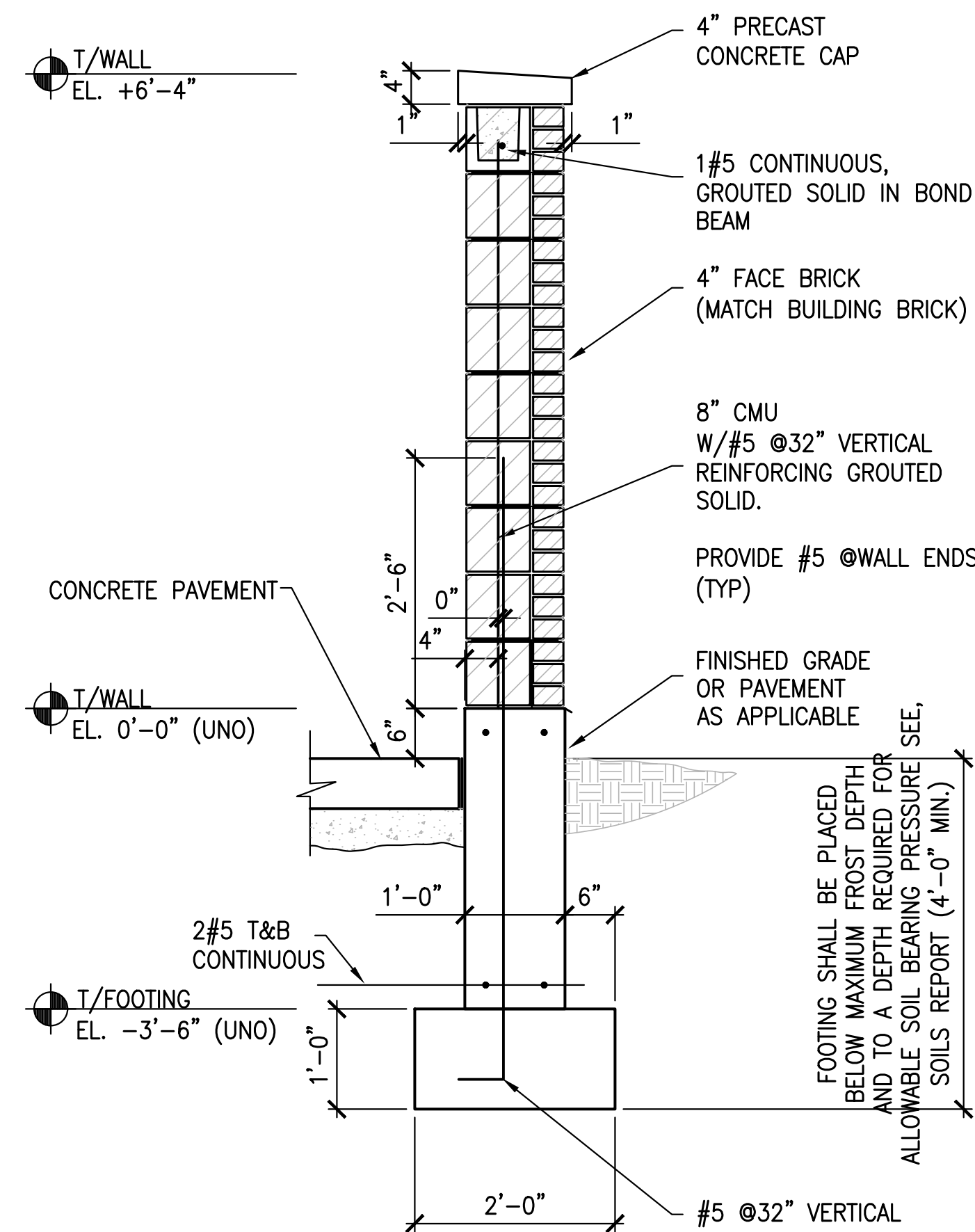
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| REVISIONS | | | | NO. | DATE |
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1. PIER DEPTHS SHOWN ARE REQUIRED MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
2. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
3. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS, (EMBEDMENT DEPTHS SHOWN ARE FORM GRADE).
4. PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCING BARS, UNLESS NOTED OTHERWISE.
5. ALL REINFORCING BY GENERAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.

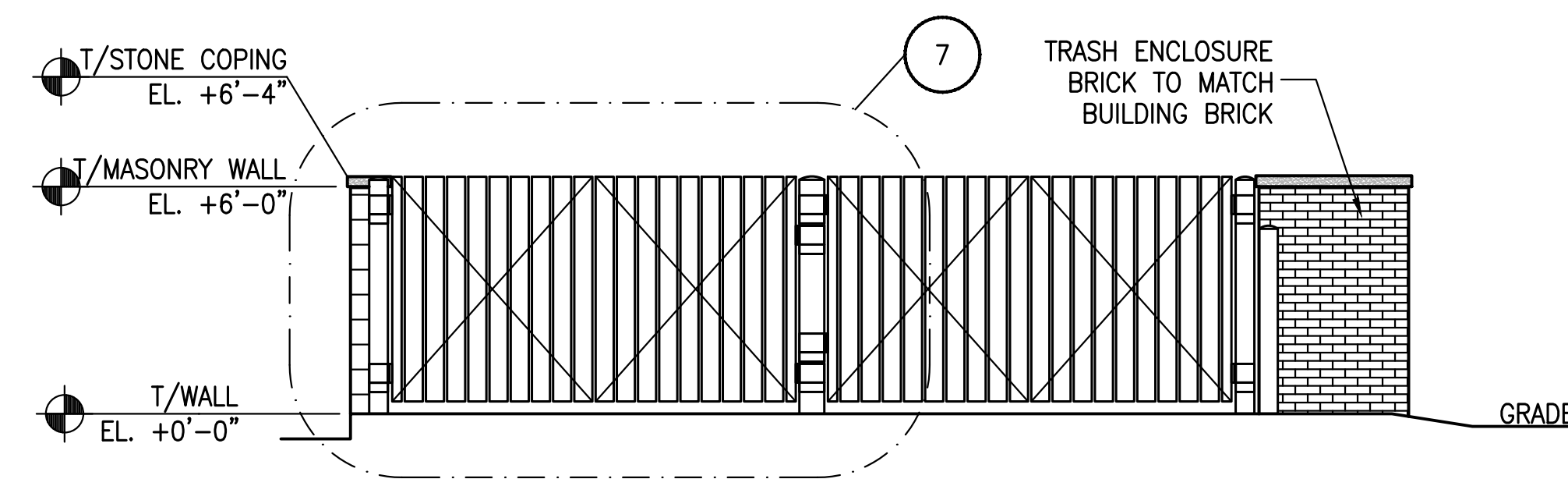




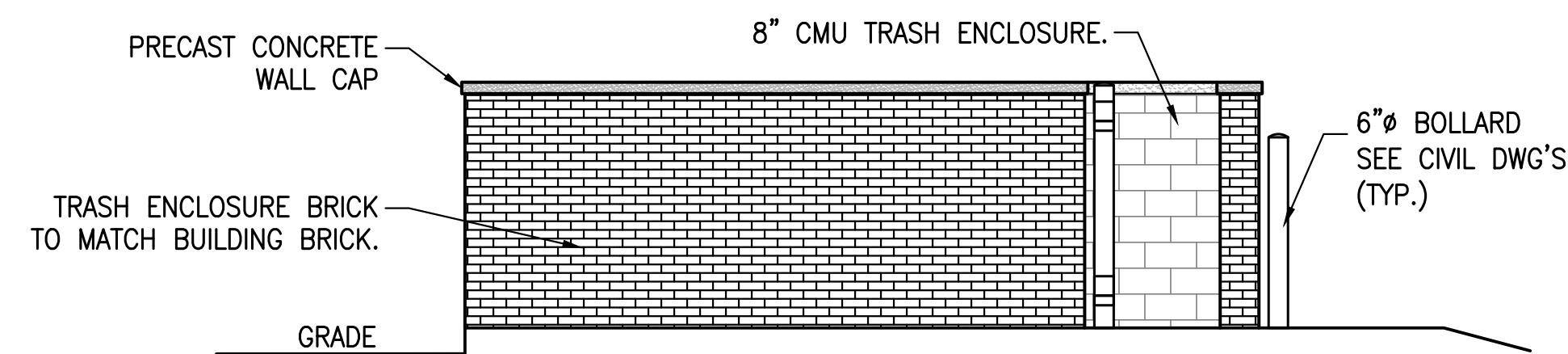
1 TRASH ENCLOSURE PLAN W/RECYCLE BIN
N.T.S.



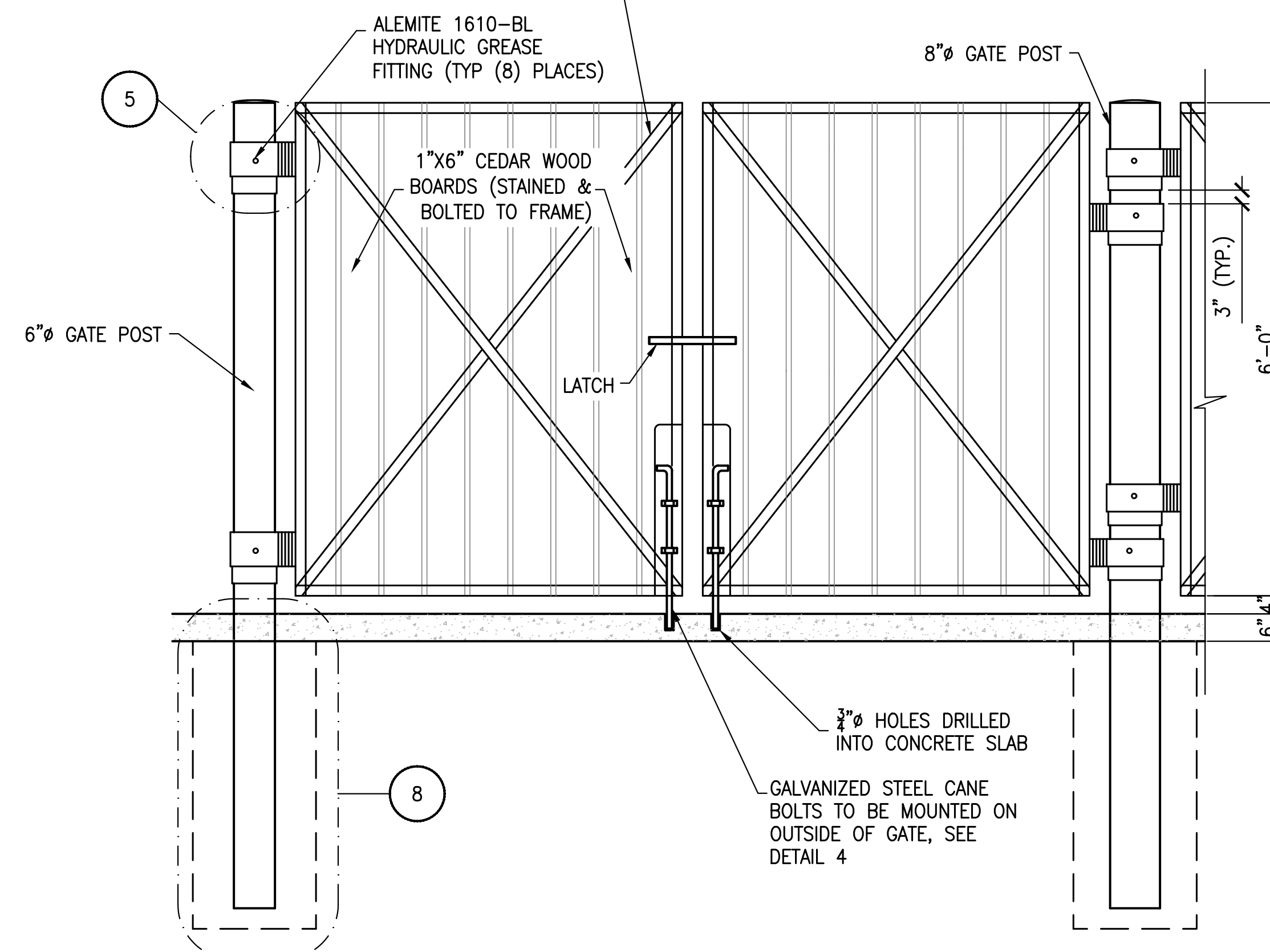
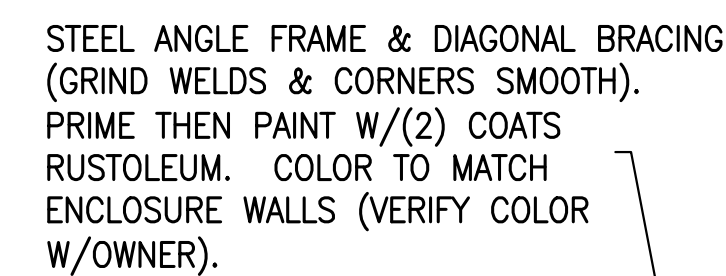
6 WALL SECTION @TRASH ENCLOSURE
3" = 1'-0"



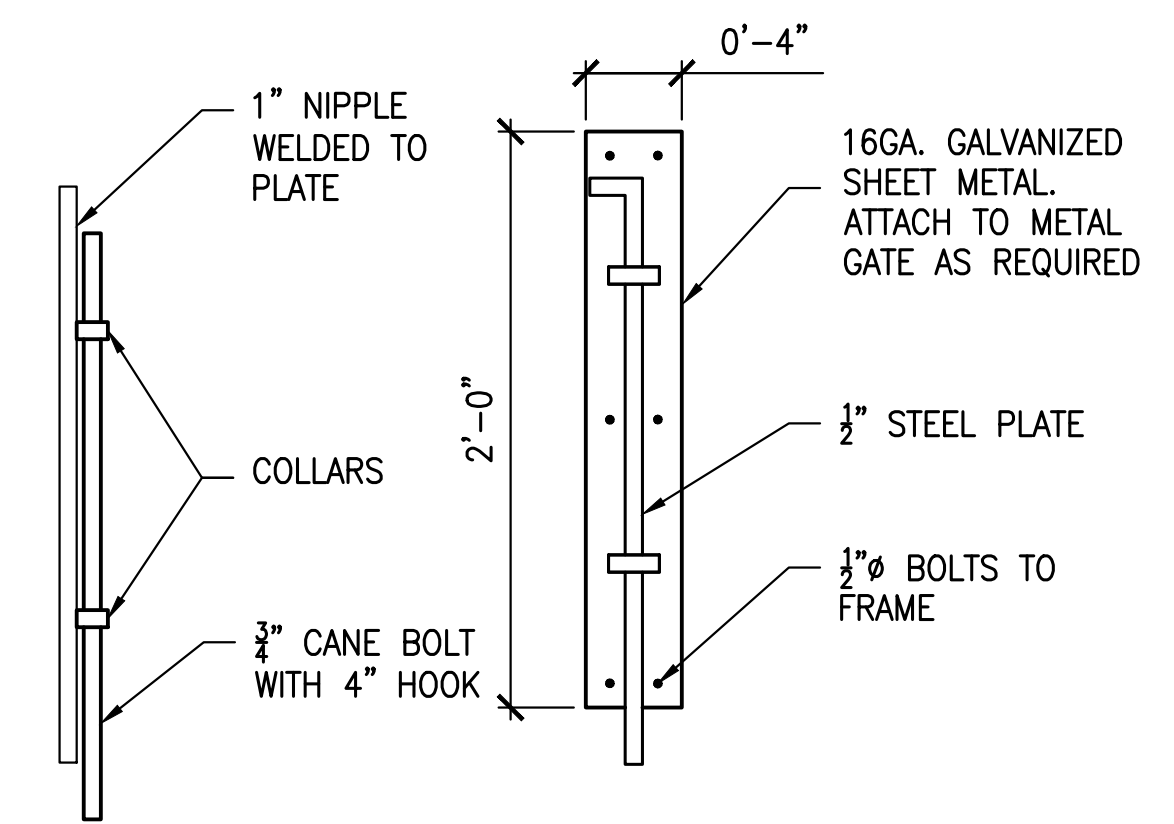
2 FRONT ELEVATION
N.T.S.



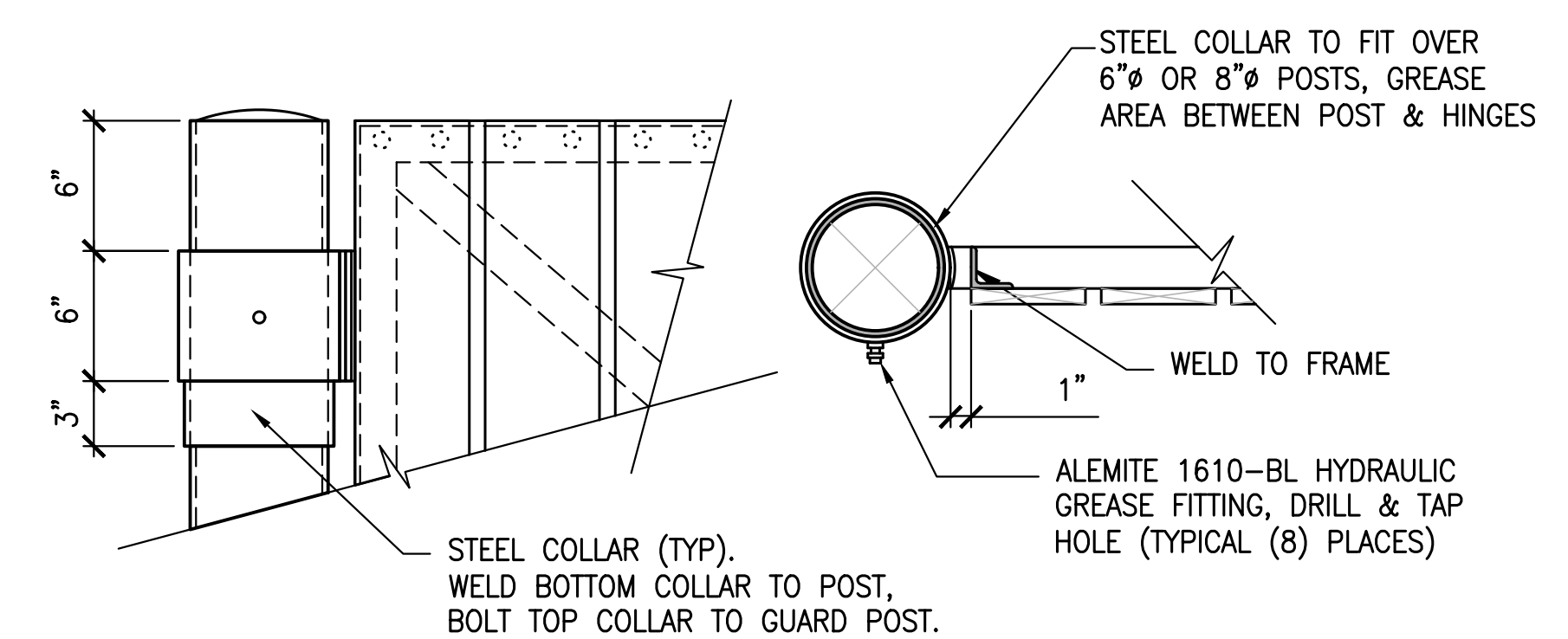
3 LEFT SIDE ELEVATION
N.T.S.



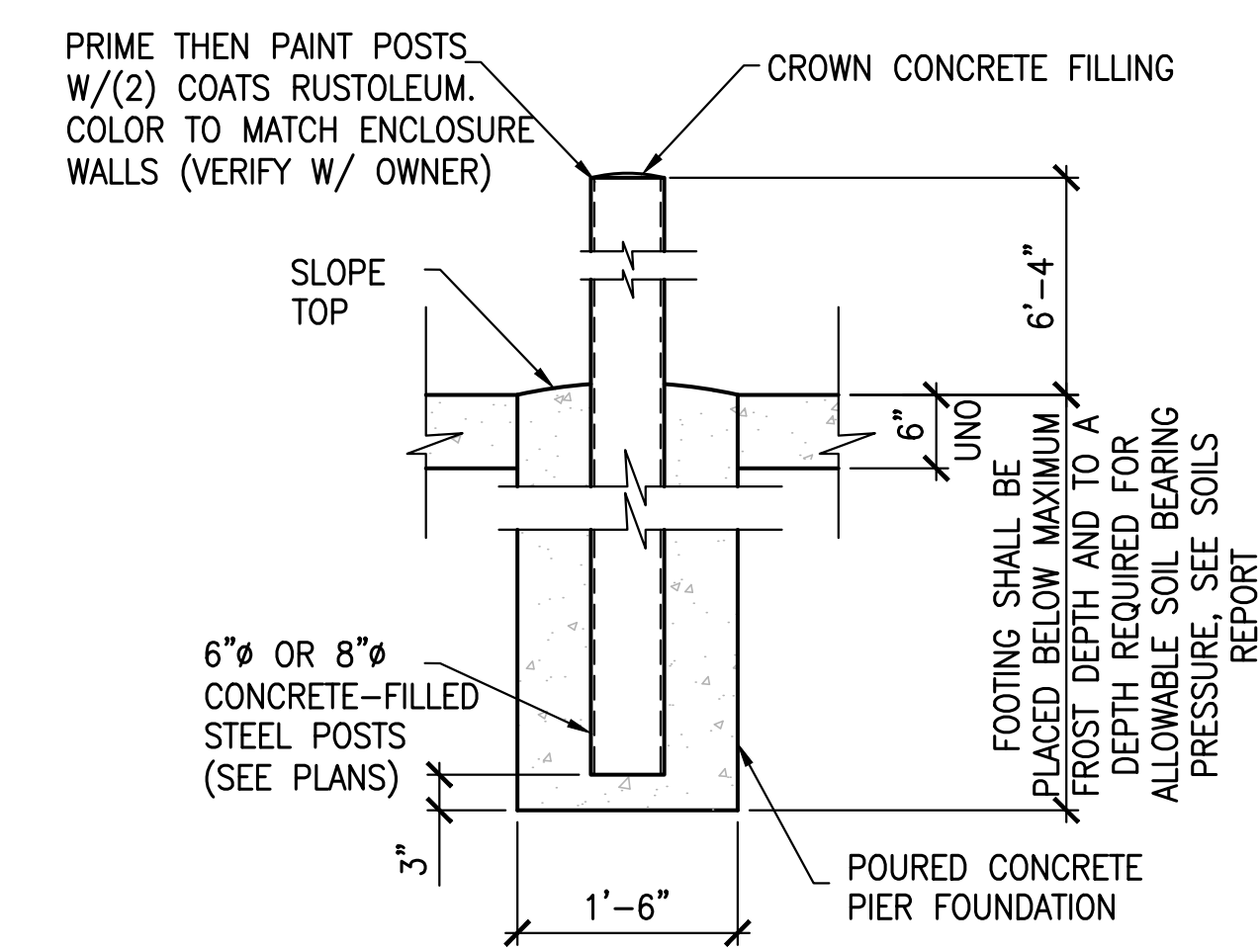
7 TYPICAL GATE DETAIL



④ CANE BOLT DETAILS



⑤ HINGE DETAILS
1 $\frac{1}{2}$ " = 1'-0"



8 TYPICAL GATE POST DETAIL
3" = 1'-0"

[illegible]