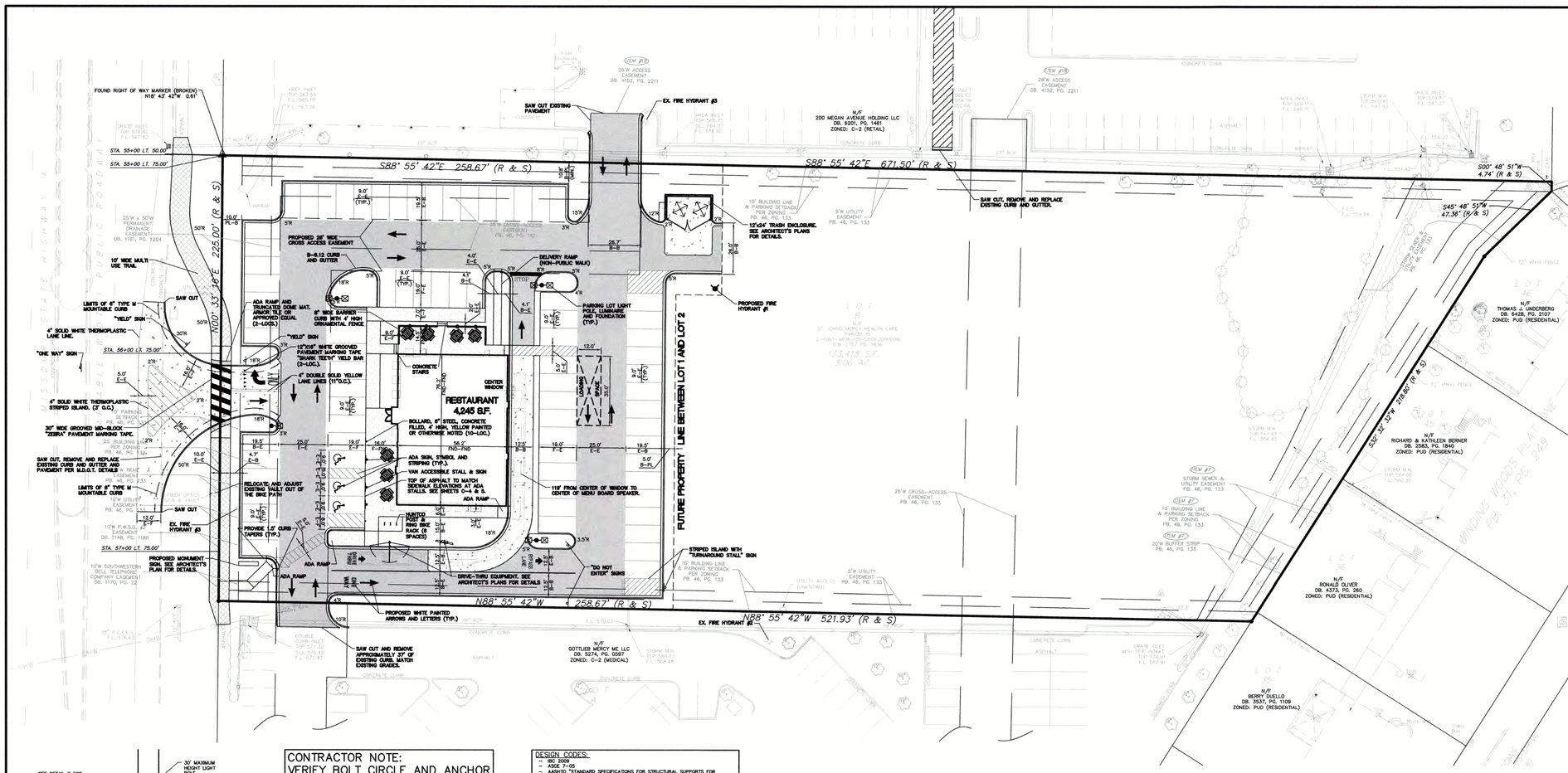


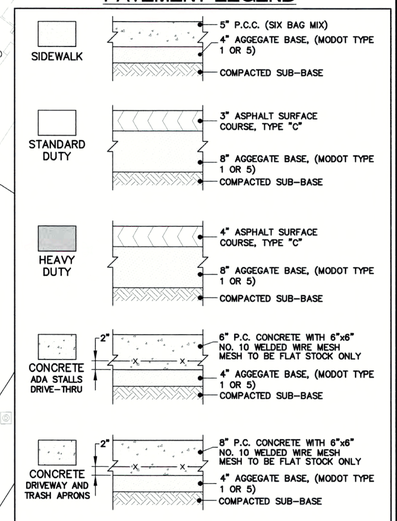

## GENERAL NOTES:

1. THESE PLANS ARE BASED ON THE ALTA/NSPS LAND TITLE SURVEY
   (SURVEY PROJECT #1807-109 DATED 01/08/19)
   PREPARED BY: MARLER SURVEYING COMPANY, INC.
   11402 GRAVOIS ROAD, SUITE 200, ST. LOUIS, MO. 63126
   (314) 729-1001
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.

## GEOMETRIC PLAN NOTES:

1. PROPOSED IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO THE WESTERN PROPERTY LINE.
2. ALL RADIUS DIMENSIONS ARE TO BACK OF CURB.
3. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
4. ALL STRIPING TO BE DOUBLE COATED 4" YELLOW PAINT UNLESS OTHERWISE NOTED.
5. 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




NOTES:
1. REFERENCE MO.D.O.T. STANDARD SPECIFICATIONS (LATEST EDITION) FOR BINDER & SURFACE COURSES 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 M.O.D.O.T. STANDARD.
7. ALL NON-REINFORCED CONCRETE SHALL BE 4,000 PSI AT 28 DAYS.
8. THE ASPHALT SHALL BE COMPACTED TO 98% MAXIMUM DENSITY.

## LANDSCAPE DATA

PARKING SPACES 74 x 270 = 19,980 x 0.06 = 1,199
(REQUIRED INTERIOR PARKING LOT LANDSCAPE AREA)

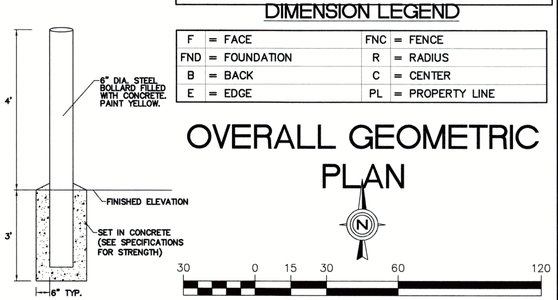
LANDSCAPE AREA PROVIDED = 8,997 S.F.
8,997/ 3,000 = 3 TREES REQUIRED
3 TREES PROVIDED

PROPERTY FRONTAGE = 225 / 40 = 6 TREES REQUIRED
6 TREES PROVIDED

## DIMENSION LEGEND

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

# OVERALL GEOMETRIC PLAN




OVERALL GEOMETRIC PLAN

CONTRACTOR NOTE:
VERIFY BOLT CIRCLE AND ANCHOR BOLT SIZE PRIOR TO ORDERING POLES AND ANCHOR BOLTS

## DESIGN CODES:

- IBC 2009
- ASCE 7-05
- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES 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

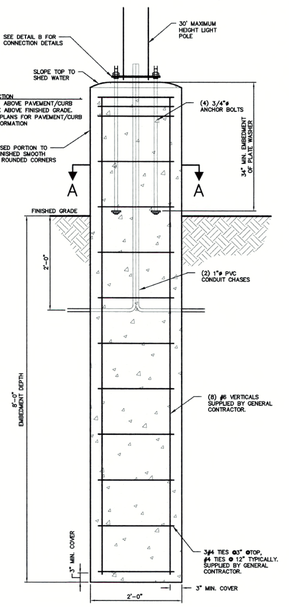
## FOUNDATION DESIGN PARAMETERS:

1. MAXIMUM WIND SPEED (3 SECOND GUST) = 90MPH
   MINIMUM REQUIRED SOIL PARAMETERS:
   - COHESIVE SOILS:
     - SHEAR STRENGTH = 750lbs/ft²
     - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
   - COHESIONLESS SOILS:
     - ANGLE OF INTERNAL FRICTION = 17 DEGREES
     - UNIT WEIGHT = 120lbs/ft³, 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
3. 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, THE DESIGN SHALL NOT BE USED.
4. ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING AGENCY TO VERIFY THE SITE SOILS CONDITIONS MEET OR EXCEEDED THE PARAMETERS USED IN THE DESIGN PRIOR TO PLACING CONCRETE.
5. THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND SPEED FOR THE UNIT TO BE INSTALLED TO DETEMINE 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.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8FT FROM A RETAINING WALL.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

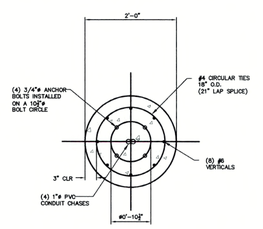
## GENERAL NOTES:

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.
7. A GEOTECHNICAL ENGINEER IS REQUIRED TO VERIFY THESE NOTES AND DETAILS PRIOR TO CONSTRUCTION.

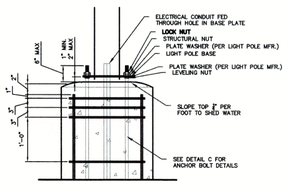
NO RECORD INFORMATION



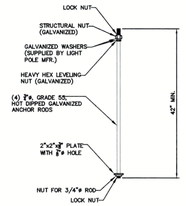

FOUNDATION SECTION




A CROSS SECTION DETAIL

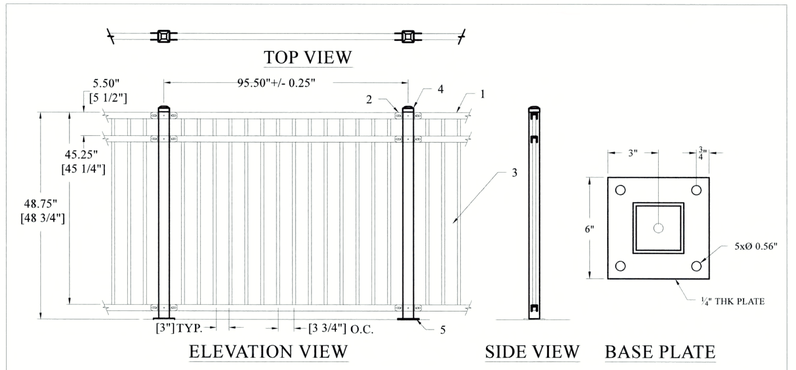



B CONNECTION DETAIL




C ANCHOR BOLT DETAIL

# PARKING LOT LIGHT POLE DETAIL




| # | DESCRIPTION |
|---|---|
| 1 | 1½" x 1½" x 14ga. CHANNEL RAIL |
| 2 | BRACKET # BX111 |
| 3 | ½" SQ x 18ga. PICKET |
| 4 | 3" SQ POST |
| 5 | BASE PLATE |

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TITLE: MONTAGE-PLUS MAJESTIC 3R 6'T 9'GAP FLB @ PANEL
DATE: 02/22/13 SHEET: 1 of 1
DRN BY: DR REV: A
DRAWING NO: 19M6346F-3




BOLLARD

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | BID SET | 5/23/19 |
| 2 | BID SET | 6/10/19 |
| 3 | PERMIT SET | 6/13/19 |
| 4 | PER. CITY REVIEW | 7/19/19 |
| 5 | NO REVISIONS | 11/22/19 |

Prepared For:

DXU ARCHITECTS
412 South Wells, 2nd Floor
Chicago, IL 60607

**OBERWEIS RESTAURANT**
1816 Highway K
O'Fallon, St, Charles County, Missouri, 63366

Prepared By:


Watermark Engineering RESOURCES, LTD
2631 Ginger Woods Parkway, Suite 100, Aurora, IL 60502
phone 630-375-1600 fax 630-236-9800 www.watermark-engineering.com


WATERMARK ENGINEERING RESOURCES, LTD.
MISSOURI STATE CERTIFICATE OF AUTHORITY #2016015112

DATE:

STATE OF MISSOURI — JEFFREY C. MILLER — NUMBER PE-2016015595 — PROFESSIONAL ENGINEER

EXP:

JEFFREY C. MILLER – ENGINEER
MO# 2016015595

CHECKED BY: J.MILLER
DESIGN BY: M.HANSEN
DRAWN BY: K.P., M.H.
DATE: MARCH 14, 2019
SCALE: 1" = 30'
PROJECT NO.: 18-085

C-3

OVERALL GEOMETRIC PLAN

\\Vault-pc\vault\CIVIL 3D PROJECTS\2019\1909710_WATERMARK ENGINEERING_OBERWEIS_O'FALLON_MO\SURVEY\6 AS BUILT\1909710 ASBUILTS.dwg, (C-3) GEO