SITE #: PH45039A

SITE NAME: DOUGLAS H.S. BALL FIELD LIGHT POLE

STATE: ARIZONA COCHISE COUNTY:

DESIGN TYPE: GENERATOR ADDITION

ARIZONA STATE CODE COMPLIANCE:

IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

2006 INTERNATIONAL BUILDING CODE 2006 INTERNATIONAL MECHANICAL CODE 2005 NATIONAL ELECTRICAL CODE/NFPA-70

ACCESSIBILITY REQUIREMENTS:

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL BUILDING CODE.

ENGINEERS NOTES:

IF A DISCREPANCY ARISES BETWEEN THE DRAWINGS AND FIELD CONDITIONS, OR WHERE A DETAIL IS DOUBTFUL OF INTERPRETATION, OR AN UNANTICIPATED FIELD CONDITION IS ENCOUNTERED, THE ENGINEER SHALL BE CALLED IMMEDIATELY FOR PROCEDURE TO BE FOLLOWED. SUCH INSTRUCTIONS SHALL BE CONFIRMED IN WRITING AND DISTRIBUTED TO ALL AFFECTED

THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DRAWING AND/OR DOCUMENTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER LAYOUT OF IMPROVEMENTS BASED UPON SETBACKS/ PROPERTY LINE LOCATION. DIMENSIONAL RELATIONSHIPS TO EQUIPMENT ARE APPROXIMATE AND ARE FOR ILLUSTRATIVE PURPOSES ONLY.

4. CONTRACTOR TO MAINTAIN ALL DRAINAGE PATHS FREE FROM ANY OBSTRUCTIONS (I.E. DEBRIS AND SILT).

CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM EQUIPMENT.

IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND ENGINEER OF RECORD.

SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR

UTILITY NOTES:

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUESTAKE AT LEAST TWO FULL WORKING DAYS (48 HOURS) PRIOR TO BEGINNING OF ANY EXCAVATING.

2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL STRUCTURES, UNDERGROUND PIPELINES, ELECTRIC AND TELEPHONE CONDUITS, EITHER SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION, AND TO OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO THESE FACILITIES. THE ENGINEERING AND/OR DEVELOPER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.

CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL UTILITY CONNECTIONS.

PROJECT SUMMARY

1601 N. DOLORES AVE. DOUGLAS, ARIZONA 85607

PROPERTY OWNER: MUNICIPAL PARK/RECREATIONAL PROPERTY 1601 N. DOLORÉS AVE. DOUGLAS, ARIZONA 85607

410-14-001K

ZONING CLASSIFICATION: SFR

JURISDICTION: CITY OF DOUGLAS LAT: 31.35220000 -109.54099700LONG:

GROUND ELEVATION: 4031.5' AMSL

PROJECT DESCRIPTION

T-MOBILE PROPOSES TO:

ADD AN AUTOMATIC TRANSFER SWITCH ADD A NEW AC BREAKERS IN EXISTING PPC

ADD CONDUCTS PER PANEL SCHEDULE AND 1-LINE DIAGRAM

ADD A 16'-4" X 11'-4" BLOCK WALL COMPOUND WITH SECURITY COVER

ADD (2) B-DECK ACCESS GATES

ADD A 4' X 9' CONCRETE SLAB

ADD A DIESEL GENERATOR WITH A 211 GALLON TANK

PROJECT TEAM

PROJECT MANAGER:

1330 W. SOUTHERN AVE., STE A-102 TEMPE. ARIZONA 85282

CONSTRUCTION MANAGER: COAL CREEK CONSULTING 8283 N. HAYDEN RD. SUITE 258

SCOTTSDALE, ARIZONA 85258 CONTACT: ANTHONY SEMRO PHONE: (847) 915-5529

SITE ACQ. CONSULTANT: COAL CREEK CONSULTING 2166 E. UNIVERSITY DR., STE 201 TEMPE, ARIZONA 85281 CONTACT: CAMERON LEHMAN

A&E DESIGN: COAL CREEK CONSULTING 8283 N. HAYDEN RD. SUITE 258

PHONE: (714) 943-6261

SCOTTSDALE, ARIZONA 85258 CONTACT: SHAWN EVANS PHONE (602) 758-5829 CIVIL ENGINEER:

TERRA DYNAMIC ENGINEERING, LLC SUITE 1, #455, 3241 E. SHEA BLVD. PHOENIX, ARIZONA 85028 CONTACT: ROBERT ORLANDO PHONE (602) 482-1603 EMAIL:ROBERT@TERRADYNAMIC.US

ELECTRICAL ENGINEER: EXCELLENCE IN ENGINEERING 12005 ANTELOPE TRAIL PARKER, COLORADO 80138 CONTACT: LOREN PRIEST PHONE (303) 748-1189

SHEET INDEX

T-1TITLE SHEET, VICINITY MAP & GENERAL INFO.

<u>CIVIL:</u>

C - 1OVERALL SITE PLAN

EXISTING SITE PLAN C-2EXISTING/NEW EQUIPMENT AND ANTENNA C-3

EXISTING/NEW ELEVATION C-4

ELECTRICAL:

SPECS/GENERAL NOTES/LEGENDS/SHEET INDEX E-1ENLARGED POWER PLAN E-2

ONE-LINE AND EXISTING/NEW PANEL SCHEDULE E-3EQUIPMENT/ANTENNA GROUNDING PLAN AND NOTES E-4

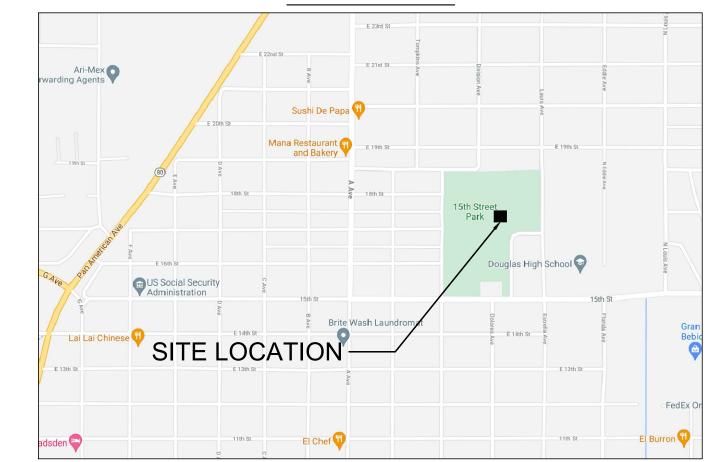
STRUCTURAL:

KNOW WHAT'S BELOW

S-1MASONRY WALL DETAIL AND NOTES

S-2DETAILS

VICINITY MAP



DRIVING DIRECTIONS

DIRECTIONS TO THE SITE FROM THE T-MOBILE OFFICE: TAKE PRIEST DR. N. TO THE AZ LOOP 202 W. AND EXIT ON 32ND ST. AND TAKE A LEFT TO PIERCE ST. AND TAKE A LEFT TO 36TH ST. AND THE SITE WILL BE ON THE LEFT SIDE OF THE ROAD

-NO.----- DATE--12/03/21

2 01/18/22 SUBMITTAL

REVIEW

TEMPE, ARIZONA, 85282 PHONE: (480) 638-2600 FAX: (480) 638-2852

COAL CREEK

(602) 429-0533 FAX: (480) 638-285

- CONSULTANT :

-PROJECT INFORMATION

PH45039A DOUGLAS H.S. **BALL FIELD** LIGHT POLE

JOB: 12-068-04

1601 N. DOLORES AVE. DOUGLAS, ARIZONA 85607

-SHEET TITLE-

TITLE SHEET, VICINITY S MAP & GENERAL **INFORMATION**

—JURISDICTIONAL APPROVAL

—SHEET NUMBER-

T_ .

SURVEYOR NOTES

- 1. ALL TITLE INFORMATION IS BASED UPON A COMMITMENT FOR TITLE INSURANCE PREPARED BY FIDELITY NATIONAL TITLE INSURANCE CO., ORDER NO.: 37015696 EFFECTIVE DATE: 05/05/2022.
- 2. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE.
- 3. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.
- 4. SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT META DATA

- 1. ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 12B SEPARATIONS CONSTRAINING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC
- BEARINGS SHOWED HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE EAST, DETERMINED BY GPS OBSERVATIONS.
- 3. FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 04/27/22.

FLOOD ZONE DESIGNATION

THE PROPOSED LEASE PREMISES SHOWN HEREON APPEAR TO BE WITHIN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NO. 04003C2881G DATED 10/20/2016.

FLOOD ZONE "X" IS DEFINED AS: AN AREA INUNDATED BY 0.2% ANNUAL CHANCE FLOODING.

SCHEDULE B EXCEPTIONS

-)EASEMENT AGREEMENT IN FAVOR OF UNITI LEASING LLC, A DELAWARE LIMITED LIABILITY COMPANY SET FORTH IN INSTRUMENT RECORDED ON MAY 1, 2017 IN INSTRUMENT NO. 2017-08553. ASSIGNMENT OF EASEMENT AND ASSIGNMENT OF LEASE ASSIGNED TO WIRELESS PROPCO, LLC, A DELAWARE LIMITED LIABILITY COMPANY RECORDED ON MAY 24, 2019 IN INSTRUMENT NO. 2019-09902.
- (6.) UTILITY EASEMENT IN FAVOR OF ARIZONA PUBLIC SERVICE COMPANY, AN ARIZONA CORPORATION SET FORTH IN INSTRUMENT RECORDED ON AUGUST 20, 2019 IN INSTRUMENT NO. 2019-15931.
- (7.) UTILITY EASEMENT IN FAVOR OF ARIZONA PUBLIC SERVICE COMPANY, AN ARIZONA CORPORATION SET FORTH IN INSTRUMENT RECORDED ON MARCH 20, 2020 IN INSTRUMENT NO. 2020-05791.

ITEMS 1-4 OF THE CLIENT PROVIDED TITLE REPORT DO NOT CONTAIN GRAPHICALLY PLOTTABLE EASEMENTS, SETBACKS, RESTRICTIONS OR OTHER ENCUMBRANCES. THE SURVEYOR CANNOT GUARANTEE THAT NON-PLOTTABLE ENCUMBRANCES DO NOT EXIST THAT MAY AFFECT THE SUBJECT LEASED PREMISES.

– (E) LESSOR'S PARCEL LINE APN: 41014001E $-\langle 6 \rangle$ (E) 12' UTILITY EASEMENT (E) BUILDING (TYP.) -SURVEY DETAIL ----------------------SHEET LS-2 _ __ __ __ $|\langle 5 \rangle$ (E) AT&T EQUIPMENT EASEMENT — $\langle 6 \rangle$ 35' R/W //----- $\langle 7 \rangle$ (E) 8' UTILITY EASEMENT APN: 41014001K (5)(E) TELECOM EASEMENT & -ACCESS EASEMENT (5)(E) TELECOM EASEMENT & -**ACCESS EASEMENT** (PARCEL 1) - FOUND BCHH EAST 15TH STREET └─ P.O.C. (P) LEASE AREA

LEGEND

- BRASS CAP IN HANDHOLE (BCHH)
- ELECTRIC METER
- **E** ELECTRIC CABINET
- © SANITARY SEWER MANHOLE ◆ FLAG POLE

◆ POSITION OF GEODETIC COORDINATES — — — PROPERTY LINE

LESSOR'S LEGAL DESCRIPTION (APN: 41014001K)

QUARTER OF SECTION 18 BY MERIDIAN AND BASE,

FEET, MORE OR LESS, TO THE POINT OF BEGINNING;

THE EAST 246 FEET OF THE NORTH 220 FEET THEREOF;

CENTRAL ANGLE 41°34'30' TO THE POINT OF BEGINNING;

90°00'00" EAST 1684.14 FEET TO THE POINT OF BEGINNING;

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 7 AND THE NORTHWEST

BEGINNING AT A POINT 1648.14 FEET EAST OF THE NORTHWEST CORNER OF THE

FEET; THENCE NORTH, 287.58 FEET; THENCE NORTH 89°52' 00" EAST, 325.50 FEET; THENCE NORTH 681.82 FEET; THENCE WEST, 995.50 FEET; THENCE SOUTH 1340.94

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 7; THENCE SOUTH 90° 00'

00" EAST, 1684.14 FEET; THENCE NORTH 00°08' 00" EAST, 351.30 FEET; THENCE

SOUTHWESTERLY 8.34 FEET ALONG A CURVE TO THE RIGHT, RADIUS 11.50 FEET, CENTRAL ANGLE OF 41°34'16"; THENCE SOUTH 90°00'00' WEST, 248.27 FEET; THENCE NORTHWESTERLY 8.34 FEET ALONG A CURVE TO THE RIGHT, RADIUS 11.50 FEET,

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 7; THENCE SOUTH

THENCE NORTH 00°08'00" EAST, 239.30 FEET; THENCE SOUTH 90°00'00"EAST 326.43 FEET (324.88 FEET, RECORDED); THENCE SOUTH 00°00'00" EAST, 268 FEET; THENCE

NORTH 90°00'00" WEST, 16.35 FEET; THENCE NORTH 00°00'00" WEST, 254.69 FEET; THENCE TO A POINT OF A CURVE TO THE LEFT WITH RADIUS OF 11.50 FEET, A DISTANCE OF 18.06 FEET; THENCE NORTH 90°00'00" WEST, 248.27 FEET; THENCE TO A POINT OF A CURVE TO THE LEFT WITH RADIUS OF 11.50 FEET, A DISTANCE OF 18.06 FEET; THENCE SOUTH 00°00'00' EAST, 54.69 FEET; THENCE NORTH 90°00'00" WEST, 39.44 FEET; THENCE NORTH 00°08'00" EAST, 28.70 FEET (29.60 FEET, RECORDED) TO

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 7; THENCE SOUTH

NORTH 00°08'00" EAST, 112 FEET TO THE POINT OF BEGINNING;

TO THE LEFT WITH RADIUS OF 60 FEET, A DISTANCE OF 94.25 FEET;

90°00'00" 42.42 FEET TO THE TRUE POINT OF BEGINNING.

AND RECORDED JUNE 30, 1953 IN DEED BOOK 87, PAGE 349

90°00'00" EAST, 1684.14 FEET; THENCE NORTH 00°08'00" EAST, 239.30 FEET; THENCE

THENCE NORTH 00°08'00" EAST, 287.58 FEET; THENCE NORTH 90°00'00", 325.50 FEET; THENCE SOUTH 00°00'00" EAST, 287.58 FEET; THENCE NORTH 90°00'00" WEST 20.22 FEET; THENCE TO A PONT OF NON-TANGENT CURVE WITH RADIUS OF 11.50 FEET, A DISTANCE OF 9.72 FEET; THENCE NORTH 00°00'00" WEST, 189.98 FEET; THENCE TO A POINT OF A CURVE TO THE LEFT WITH RADIUS OF 60 FEET, A DISTANCE OF 94.25 FEET; THENCE NORTH 90°00'00" WEST, 151.27 FEET; THENCE TO A POINT OF A CURVE

THENCE SOUTH 00°00'00" WEST, 189.98 FEET; THENCE TO A POINT OF A CURVE TO

THE LEFT WITH RADIUS OF 11.50 FEET, A DISTANCE OF 9.72 FEET; THENCE NORTH

NOTE: LEGAL IS NOT A TRUE REPRESENTATION OF THE COUNTY LAND RECORDS.

ANY STATEMENT IN THE LEGAL DESCRIPTION CONTAINED IN EXHIBIT A AS TO AREA

OR QUANTITY OF LAND IS NOT A REPRESENTATION THAT SUCH AREA OR QUANTITY

IS CORRECT BUT IS FOR INFORMAL IDENTIFICATION PURPOSES ONLY AS SHOWN BY

LESS AND EXCEPT THAT PORTION OF PROPERTY CONVEYED TO DOUGLAS UNITED

SCHOOL DISTRICT NO. 27 FROM THE CITY OF DOUGLAS, A MUNICIPAL CORPORATION

BY WARRANTY DEED DATED DECEMBER 10, 2004 AND RECORDED JANUARY 13, 2005

AND BEING A PORTION OF THE SAME PROPERTY CONVEYED TO CITY OF DOUGLAS,

A MUNICIPAL CORPORATION FROM UNITED STATES OF AMERICA, ACTING THROUGH THE PUBLIC HOUSING ADMINISTRATION BY QUITCLAIM DEED DATED JUNE 26, 1953

SOUTH 90°00'00" EAST, 42.42 FEET TO THE POINT OF BEGINNING;

THENCE CONTINUING SOUTH 90°00'00" EAST, 263.53 FEET; THENCE

NORTHWEST QUARTER OF SECTION 18; THENCE NORTH, 268 FEET; THENCE NORTH

89°52'00" EAST, 324.88 FEET; THENCE NORTH, 112 FEET; SOUTH 89°52'00" WEST 324.61

RIGHT-OF-WAY LINE CENTERLINE

CHAIN LINK FENCE OVERHEAD ELECTRIC LINE POB POINT OF BEGINNING

POC POINT OF COMMENCEMENT

EXCEPTING,

IN ADDITION TO.

IN ADDITION TO,

THE POINT OF BEGINNING;

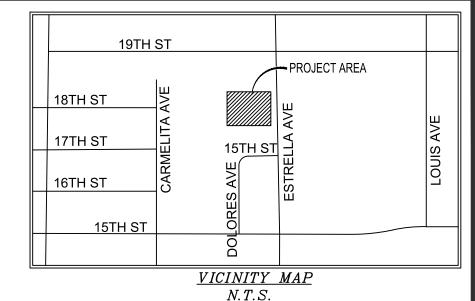
ALL IN TOWNSHIP 24, RANGE 28

COUNTY ASSESSOR.

IN INSTRUMENT NO. 050101291.

CONTAINING 26.123 AC, MORE OR LESS

IN ADDITION TO,



1330 W SOUTHERN AVE TEMPE, ARIZONA; 85282 PHONE: (480) 638-2600; FAX: (480) 638-2852



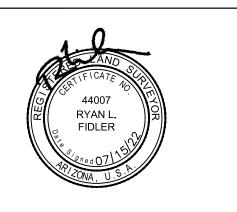
2166 E. UNIVERSITY DR., STE 201 TEMPE, ARIZONA 85281 PHONE: (480) 638-2600 FAX: (480) 638-2852

FIELD BY: JMM GAC DRAWN BY: CHECKED BY:

REVISIONS 07/15/22 TITLE REVIEW/FINAL 0 05/18/22 PRELIMINARY NO. DATE DESCRIPTION



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15006210

SITE NAME:

PH45039A

SITE ADDRESS:

H ST

DOUGLAS, AZ 85607

BOUNDARY DETAIL

SHEET NO.

REVISION:

PROJECT No.

SHE ADDR
425 10TF

NORTH

GRAPHIC SCALE

(IN FEET ` 1 inch = 100 ft.

SHEET TITLE:

LS-´

LESSEE LEASE AREA LEGAL DESCRIPTION

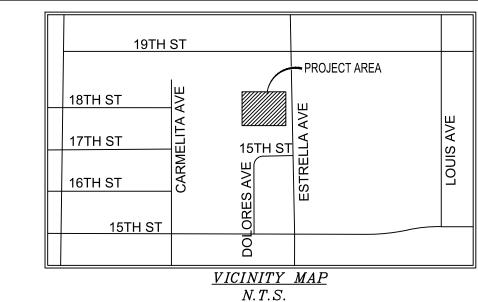
A PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER (SE 1/4, SW 1/4) OF SECTION 7, TOWNSHIP 24 SOUTH, RANGE 28 EAST IN COCHISE COUNTY,

STATE OF ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A BRASS CAP LOCATED AT THE INTERSECTION OF NORTH CARMELITE AVENUE AND EAST 15TH STREET; THENCE ALONG THE CENTERLINE OF NORTH CARMELITE AVENUE NORTH 00°16'33" WEST, 1098.83 FEET; THENCE DEPARTING SAID CENTERLINE NORTH 90°00'00" EAST, 35.09 FEET TO THE EAST RIGHT-OF-WAY OF NORTH CARMELITE AVENUE; THENCE CONTINUING NORTH 90°00'00" EAST, 716.84 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 56°13'39" EAST, 12.05 FEET; THENCE SOUTH 33°46'21" WEST, 17.37 FEET; THENCE NORTH 56°13'39" WEST, 12.05 FEET; THENCE NORTH 33°46'21" EAST, 17.37 FEET TO THE POINT OF REGINNING

LINE TABLE									
LINE	LENGTH	BEARING							
L1	1098.83	N0° 16' 33"W							
L2	35.09	N90° 00' 00"E							
L3	716.84	N90° 00' 00"E							
L4	12.05	S56° 13' 39"E							
L5	17.37	S33° 46' 21"W							
L6	12.05	N56° 13' 39"W							
L7	17.37	N33° 46' 21"E							



T--Mobile-

1330 W SOUTHERN AVE TEMPE, ARIZONA; 85282 PHONE: (480) 638-2600; FAX: (480) 638-2852

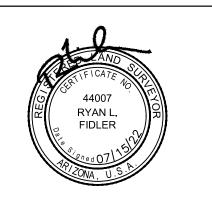


2166 E. UNIVERSITY DR., STE 201 TEMPE, ARIZONA 85281 PHONE: (480) 638-2600 FAX: (480) 638-2852

FIELD BY:	JMM
DRAWN BY:	GAC
CHECKED BY:	RIF

REVISIONS 1 07/15/22 TITLE REVIEW/FINAL 0 05/18/22 PRELIMINARY NO. DATE DESCRIPTION





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AUTHORIZATION OF RLF CONSULTING, LLC.

PROJECT No. 15006210

SITE NAME: PH45039A

SITE ADDRESS: 425 10TH ST

DOUGLAS, AZ 85607

SHEET TITLE:

GRAPHIC SCALE

(IN FEET)1 inch = 20 ft.

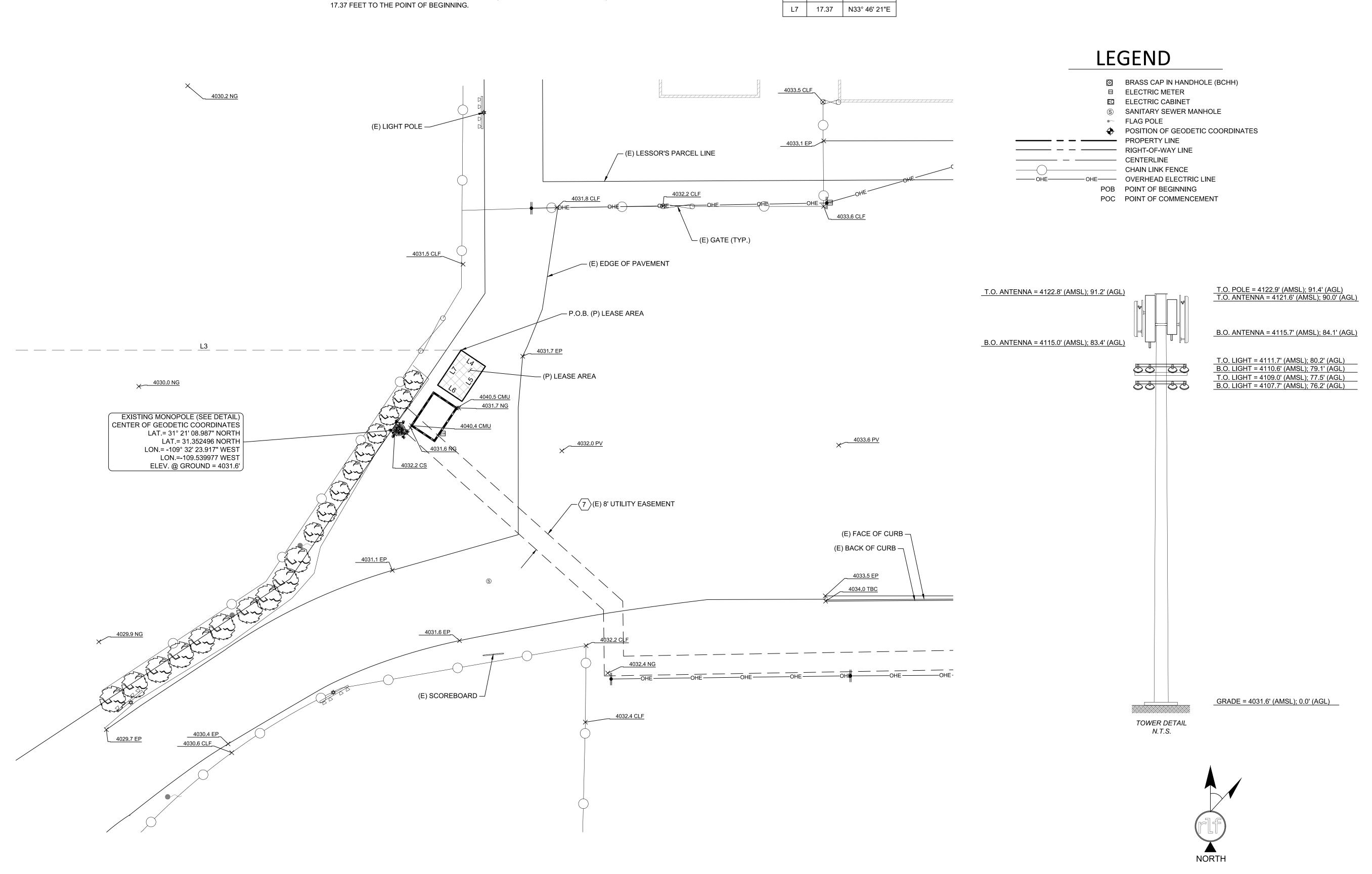
TOPOGRAPHIC SURVEY

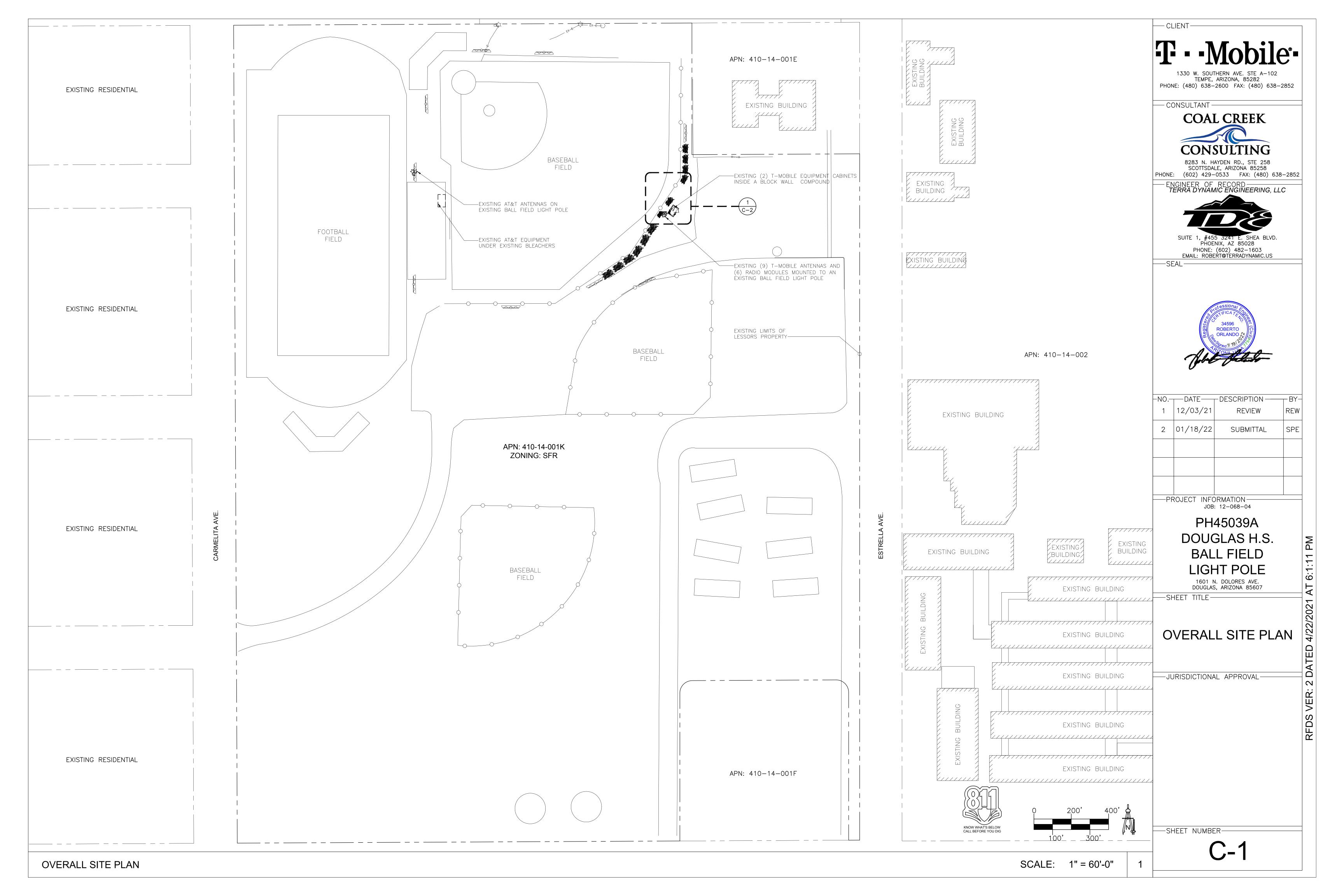
LS-2

SHEET NO.

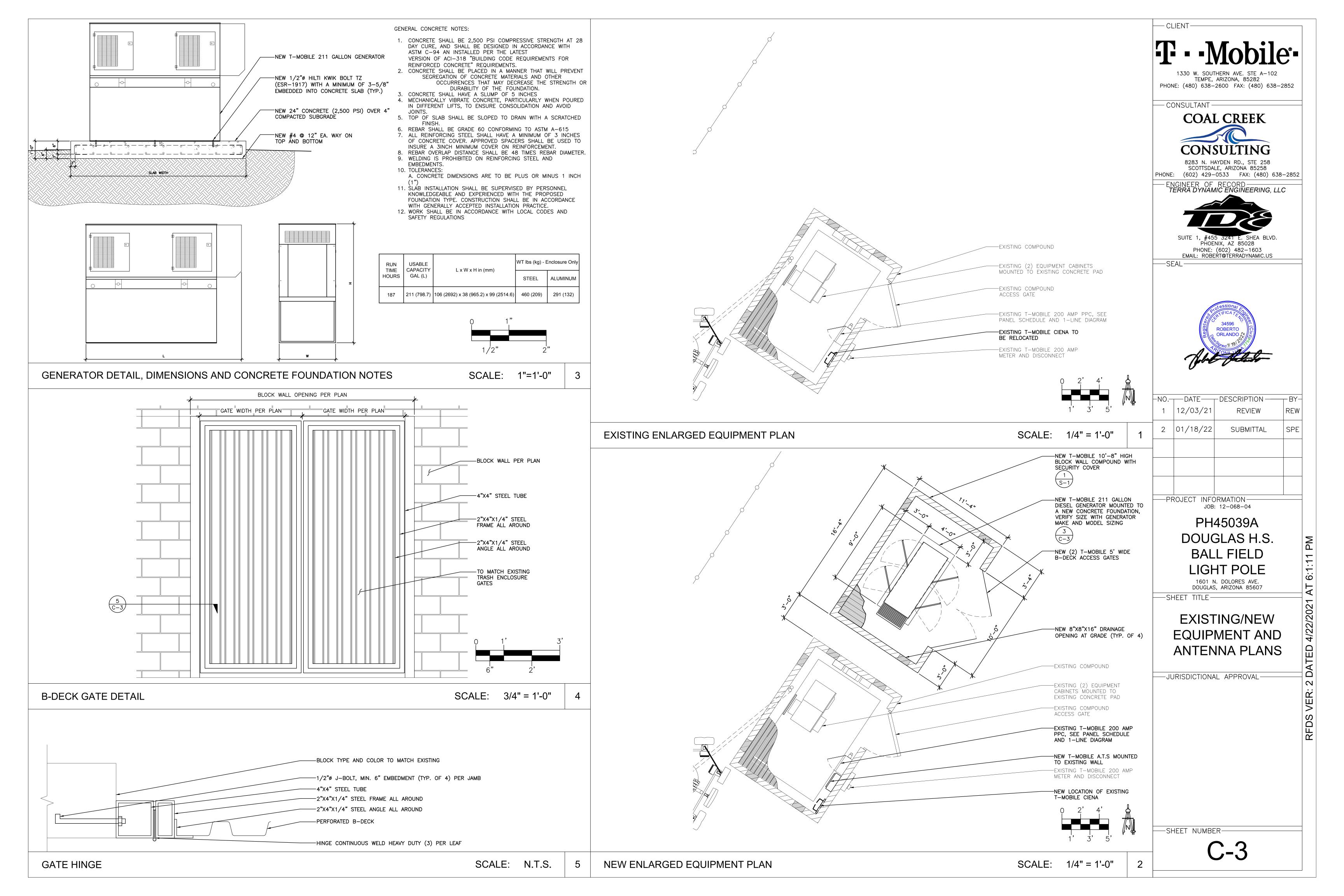
1

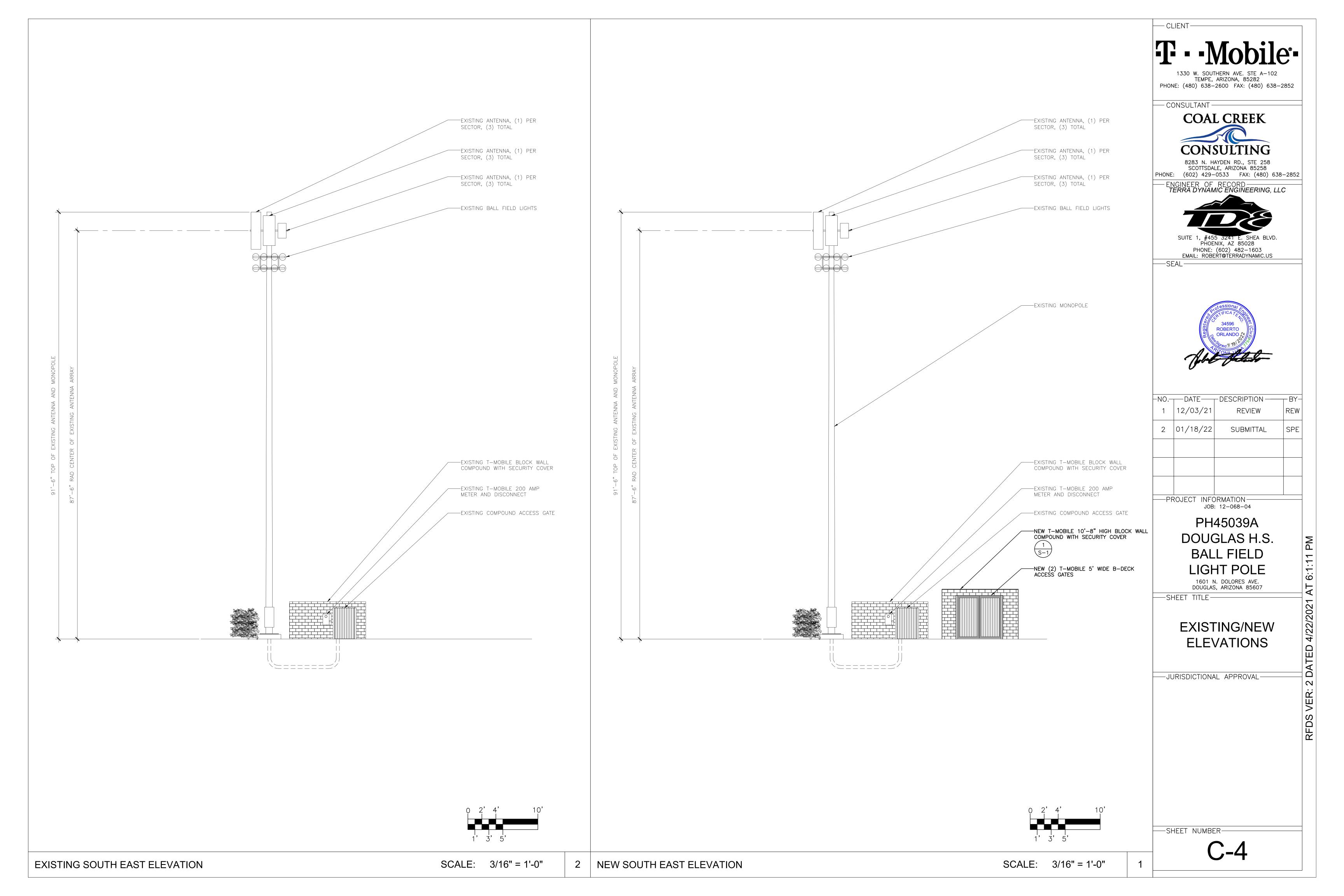
REVISION:











ELECTRICAL SPECIFICATIONS

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT
- CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 3 HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 7 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU.
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
- 9 CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS
- 10 COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 11 ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE
- 12 PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- 13 ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- 14 USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- 15 ALL CONDUCTORS SHALL BE COPPER.
- 16 ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 17 THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL
- APPLICABLE CODES AND DRAWINGS. 18 PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF
- THE ELECTRICAL WORK. 19 IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4305 AND NO. 4304 OF THE U.B.C.
- 22 RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE
- ARCHITECT OR APPROVED EQUAL. 23 WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVELENT, WHITE AS
- REQUIRED BY THE ARCHITECT. 24 PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR

WEATHERPROOF RECEPTACLES SHALL HAVE RACO #800, 1/2" RAISED WORK COVERS.

- ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS. 26 GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG.
- COPPERWELD OR APPROVED EQUAL. 28 METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON
- THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL.
- 29 ALL MATERIALS SHALL BE U.L. LISTED.
- 30 CONDUIT:
 - a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS. IN COTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGIDCONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3 b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS. c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE. d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- 31 ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- 32 UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC. NOT INDICATING THE EXACT ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF
- INSTALLATION. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A
- NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL PLANS OR DIMENSIONED ON THE ELECTRICAL PLANS, VERIFY EXACT LOCATION WITH
- THE ARCHITECT PRIOR TO ROUGH-IN. 4. ALL WIRE COUNTS ARE TYPICALLY NOT SHOWN BETWEEN LIGHT FIXTURES OR RECEPTACLES. PROVIDE
- ALL REQUIRED EVEN WHERE NOT SHOWN. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUNDED (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN 3/4" CONDUIT. MC CABLE SHALL BE ACCEPTACLE IN WALLS. ALL BRANCH CIRCUIT HOME-RUNS SHALL BE IN CONDUIT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL

CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL. PLUMBING AND GENERAL CONTRACTORS. PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS
- INSULATION & WIRE TYPES SHALL BE AS FOLLOWED: PANEL FEEDERS XHHW COPPER, WIRING ABOVE GRADE - THHN COPPER, WIRING BELOW GRADE - THWN COPPER, UNLESS NOTED OTHERWISE.
- SOME CONDUCTOR SIZES ARE BASED ON THE USE OF 75 DEGREE C CONDUCTOR RATINGS. THE CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THAT ALL ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
- 10. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. COMPONENTS NOT SHOWN, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE
- PROVIDED AT NO ADDITIONAL COST TO THE PROJECT 11. THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTS REQUIRED OR RECOMMENDED BY EQUIPMENT MANUFACTURERS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN (7) DAYS
- PRIOR TO TESTING AND SHALL ALLOW OBSERVATION OF THE TESTING BY THE ENGINEER. 12. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. 13. UNLESS OTHERWISE NOTED, ALL EQUIPMENT DISCONNECTS SHALL BE NEMA TYPE 3R, FUSIBLE, 30A, 3
- POLE. FUSE PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. 14. ALL PENETRATIONS IN WALLS SHALL BE SEALED WITH FLEXIBLE ACOUSTIC CAULKING. CAULKING SHALL
- BE APPLIED AROUND OUTLET BOXES TO PROVIDE A COMPLETE SEAL BETWEEN THE BOX AND THE 15. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BLUE STAKE) AND HAVE ALL
- UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO
- 16. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES INCLUDING THE NEC 17. OVER CURRENT DEVICES SHALL BE LOCATED WHERE THEY WILL NOT BE EXPOSED TO PHYSICAL
- 18. HOMERUNS SHALL NOT BE GANGED TOGETHER UNLESS SHOWN GANGED. 19. CONTRACTOR SHALL CONTACT ENGINEER IN WRITING (RFI) PRIOR TO PROCEEDING WITH ANY WORK NOT CLEARLY SHOWN ON THESE CONTRACT DOCUMENTS. ENGINEER WILL NOT ACCEPT ANY RESPONSIBILITY
- FOR WORK HE HAS NOT EXPLICITLY AUTHORIZED. 20. PROVIDE IDENTIFICATION AT THE DISTRIBUTION PANEL FOR BRANCH CIRCUITS THAT FEED EMERGENCY
- LIGHTING UNIT EQUIPMENT. 21. ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE MAINTENANCE WHILE ENERGIZED SHALL BE
- PROPERLY MARKED TO WARN PERSONNEL OF ARC FLASH HAZARD. 22. PROVIDE A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE. PIPE OR CONDUIT AT 8'-0" ON CENTER. IT SHALL HAVE A 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION PER ARIZONA STATE STATUTE.
- 23. UTILITY COORDINATION a. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF DRAWINGS TO ELECTRICAL AND TELCO
- UTILITIES AS REQUIRED FOR DESIGN. b. THE CONTRACTOR SHALL NOT TRENCH OR INSTALL CONDUITS (ON THE UTILITY OR LOAD SIDE) TO THE SES OR TO THE UTILITY TRANSFORMER (PRIMARY OR SECONDARY), OR TO THE UTILITY
- CONNECTION POINT BEFORE RECEIVING A FINAL DESIGN FROM THE UTILITY c. THE CONTRACTOR SHALL NOT INSTALL EQUIPMENT PADS FOR THE SES OR ANY UTILITY EQUIPMENT (TRANSFORMERS, SWITCHING CABINETS, ETC) PRIOR TO RECEIPT OF FINAL PLANS FROM THE UTILITY. d. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL WORK REQUIRED TO MEET THE
- REQUIREMENTS OF THE UTILITY WHICH IS THE RESULT OF PROCEEDING PRIOR TO RECEIPT OF A FINAL UTILITY DESIGN. 24. SFRIFS RATING NOTES: A. WHERE A CIRCUIT BREAKER IS USED ON A CIRCUIT HAVING AN AVAILABLE FAULT CURRENT HIGHER THAN THE MARKED INTERRUPTING RATING BY BEING CONNECTED ON THE LOAD SIDE OF AN ACCEPTABLE OVERCURRENT PROTECTIVE DEVICE HAVING A HIGHER RATING, THE CIRCUIT BREAKER
- SHALL MEET THE REQUIREMENTS SPECIFIED IN (1) AND (2) (1). TESTED COMBINATIONS. THE COMBINATION OF LINE-SIDE OVERCURRENT DEVICE AND LOAD-SIDE CIRCUIT BREAKER(S) IS TESTED AND MARKED ON THE END USE EQUIPMENT, SUCH AS SWITCHBOARDS AND PANELBOARDS.
- (2). MOTOR CONTRIBUTION. SERIES RATINGS SHALL NOT BE USED WHERE a. MOTORS ARE CONNECTED ON THE LOAD SIDE OF THE HIGHER-RATED OVERCURRENT DEVICE AND ON THE LINE SIDE OF THE LOWER-RATED OVERCURRENT DEVICE, AND b. THE SUM OF THE MOTOR FULL-LOAD CURRENTS EXCEEDS 1 PERCENT OF THE INTERRUPTING RATING OF THE LOWER-RATED CIRCUIT BREAKER.
- B. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER. THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING: CAUTION - SERIES COMBINATION SYSTEM RATED ___ AMPERES.
- IDENTIFIED REPLACEMENT COMPONENTS REQUIRED C. TESTED COMBINATIONS. THE COMBINATION OF THE LINE-SIDE OVERCURRENT DEVICE AND LOAD SIDE CIRCUIT BREAKER(S) IS TESTED AND MARKED ON THE END USE EQUIPMENT, SUCH AS SWITCHBOARDS

SYMBOL LIST

ELECTRICAL SYMBOLS

FLUORESCENT STRIP FIXTURE, LENGTH PER PLAN. SURFACE WALL-MOUNTED LIGHT FIXTURE.

SOLID 'JBOX' ON ANY FIXTURE INDICATES A FIXTURE WITH AN INTEGRAL EMERGENCY POWER SUPPLY, PER THE SPECIFICATIONS.

POLE-MOUNTED LIGHT FIXTURE. SINGLE POLE TOGGLE SWITCH

PHOTOCELL, MOUNTED ON ROOF UNLESS NOTED OTHERWISE

DUPLEX CONVENIENCE RECEPTACLE

"CROSS SLASH" ON ANY RECEPTACLE INDICATES INTEGRAL GROUND FAULT PROTECTION. DOUBLE DUPLEX (FOURPLEX) CONVENIENCE RECEPTACLE JUNCTION BOX. 'C' INDICATES CEILING MOUNTED. 'F' INDICATES FLOOR

MOUNTED (SUBSCRIPTS ARE TYPICAL FOR ALL DEVICES) VOICE OUTLET DATA OUTLET

⊕ C F

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⟨€ •>>

COMBINATION TELEPHONE AND DATA OUTLET IN THE SAME BOX

HORSEPOWER RATED MANUAL MOTOR SWITCH

FUSIBLE DISCONNECT SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SIZE AND FUSES AS PER RECOMMENDATIONS OF EQUIPMENT'S MANUFACTURER OR AS NOTED. 0A, 3P, 250V, NEMA 3R UNLESS NOTED OTHERWISE. (N. INDICATES NON-FUSED).

ELECTRICAL MOTOR. SEE DRAWINGS FOR SIZE.

DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE. DISTRIBUTION TRANSFORMER

SURFACE MOUNTED PANEL BOARD. FLUSH MOUNTED PANEL BOARD.

TELEPHONE MOUNTING BOARD. TEST WELL/GROUND ROD

GROUND ROD - 5/8" x 10' COPPER CLAD CADWELD CONNECTION MECHANICAL CONNECTION GROUNDING WIRE

GROUND BAR SURGE SUPPRESSOR GROUND BAR METER AND MAIN BREAKER **∑** MANUAL XFR SWITCH AND GEN. RECPT.

GPS ANTENNA ELECTRICAL POWER ____ _____ T-1 LINE

WIRE AND CONDUIT

FLEXIBLE CONDUIT CONDUIT CONCEALED IN WALLS OR ABOVE CEILING W/ 2 #12, #12 GND, 3/4 C., UNLESS NOTED OTHERWISE.

> CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE W/ 2 #12, #12 GRD., 3/4" C., UNLESS NOTED OTHERWISE. CONDUIT TURNING UP. CONDUIT TURNING DOWN.

1-LINE DIAGRAM

CIRCUIT BREAKER, FIXED MOUNTED. CIRCUIT BREAKER, DRAWOUT MOUNTING.

FUSIBLE SWITCH. SIZE AS INDICATED ON DRAWINGS. TRANSFORMER. SEE ONE-LINE FOR TYPE AND SPECIFICATION.

CURRENT TRANSFORMER METERING DEVICE

PANELBOARD, MAIN LUG ONLY PANELBOARD, MAIN CIRCUIT BREAKER TRANSFER SWITCH - MANUAL OR AUTOMATIC

INDICATES A FEED-THROUGH LUG CONNECTION UNINTERRUPTIBLE POWER SUPPLY (G)-••

GENERATOR WITH INTEGRAL PROTECTION

WEATHERHEAD

SHEET INDEX

ENLARGED POWER PLAN L-2E-3ONE-LINE AND EXISTING/NEW PANEL SCHEDULE E-4EQUIPMENT/ANTENNA GROUNDING PLAN AND NOTES

ABBREVIATIONS

= CONDUIT ONLY = SCHEDULE 40 PLASTIC CONDUIT PVC. GRC. = GALVANIZED RIGID CONDUIT MTD. = MOUNTED = WEATHERPROOF W.P. = UNLESS OTHERWISE NOTED U.O.N. G. OR GRD. = GROUND N. OR NEUT. = NEUTRAL A. OR AMP = AMPERE KW. = KILOWATTS = WATTS = PHASE = DIAMETER H.P. OR HP = HORSEPOWER = TRANSFORMER XFMR C.B. = CIRCUIT BREAKER = CIRCUIT CKT. = SWITCH MTS = MANUAL TRANSFORMER SWITCH = FIRE ALARM RECPT. = RECEPTACLE = ELECTRIC CONTRACTOR = GENERAL CONTRACTOR = SINGLE POLE, TWO POLE, & THREE POLE 1P, 2P, & 3P EGB = EQUIPMENT GROUND BUS MGB = MAIN GROUND BUS **AFC** = AVAILABLE FAULT CURRENT = AMERICAN WIRE GAUGE AWG BTCW = BARE TINNED COPPER WIRE GPS = GLOBAL POSITIONING SYSTEM PPC = POWER PROTECTION CABINET TYP. = TYPICAL = RIGID GALVANIZED STEEL RGS = ELECTRICAL METALLIC TUBING EMT = DRAWING DWG = BASE TRANSMISSION SYSTEM BTS GEN = GENERATOR **BSCW** = BARE STRANDED COPPER WIRE ISCW = INSULATED STRANDED COPPER WIRE

1330 W. SOUTHERN AVE. STE A-102 TEMPE, ARIZONA, 85282 PHONE: (480) 638-2600 FAX: (480) 638-2852

– CONSULTANT :

– CLIENT:



8283 N. HAYDEN RD., STE 258 SCOTTSDALE, ARIZONA 85258 PHONE: (602) 429-0533 FAX: (480) 638-2852

EXCELLENCE IN ENGINEERING

— ENGINEER OF RECORD-



12005 Antelope Trail Parker, Colorado 80138 303-748-1189 info@eeparker.com

-SEAL



- DESCRIPTION -BY--NO.----- DATE--12/06/21 REW REVIEW SUBMITTAL 2 |01/18/22|

> —PROJECT INFORMATION-JOB: 12-068-04

> > PH45039A DOUGLAS H.S. **BALL FIELD** LIGHT POLE

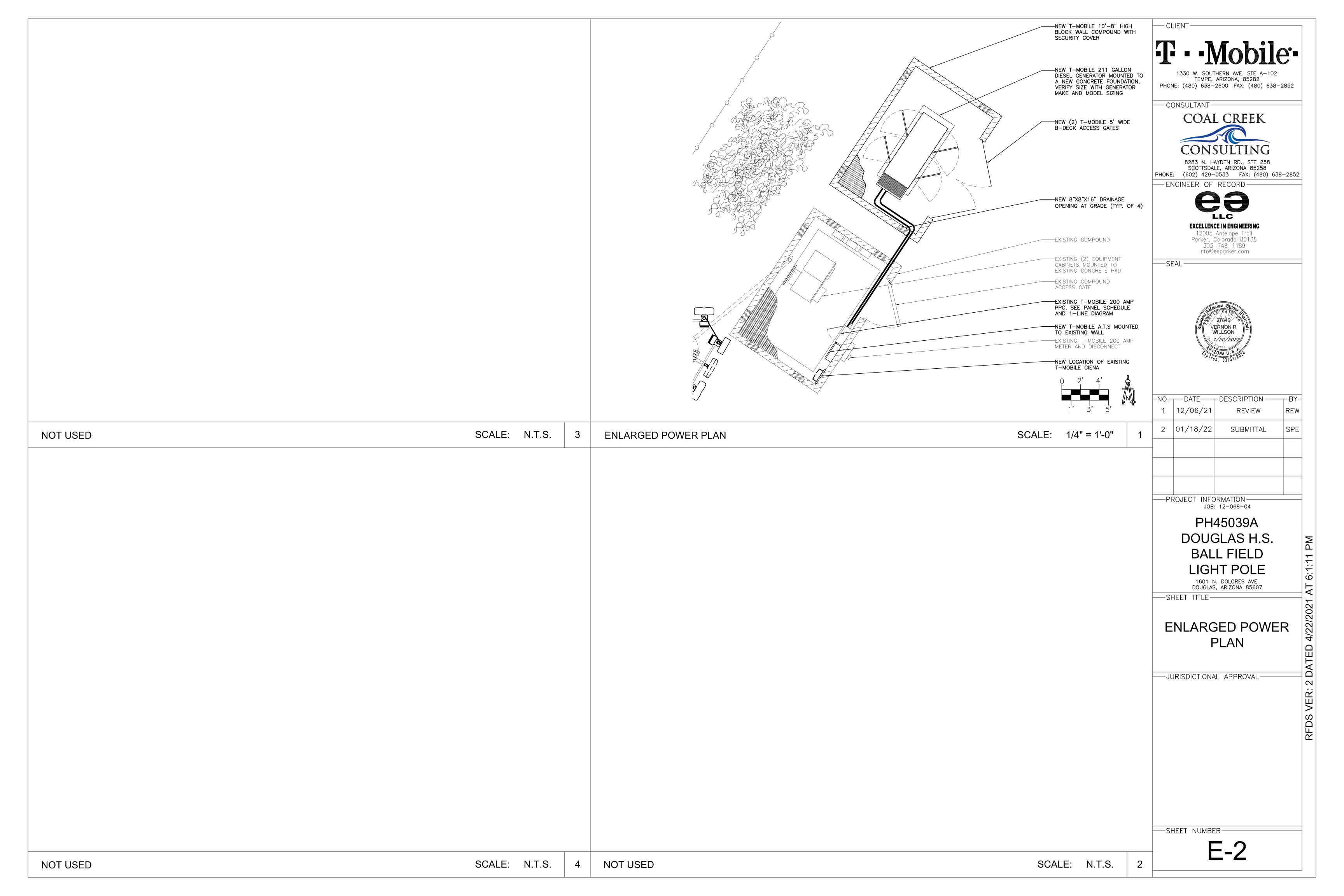
> > > 1601 N. DOLORES AVE. DOUGLAS, ARIZONA 85607

-SHEET TITLE-

SPECS / GENERAL NOTES / LEGENDS / SHEET INDEX

-JURISDICTIONAL APPROVAL

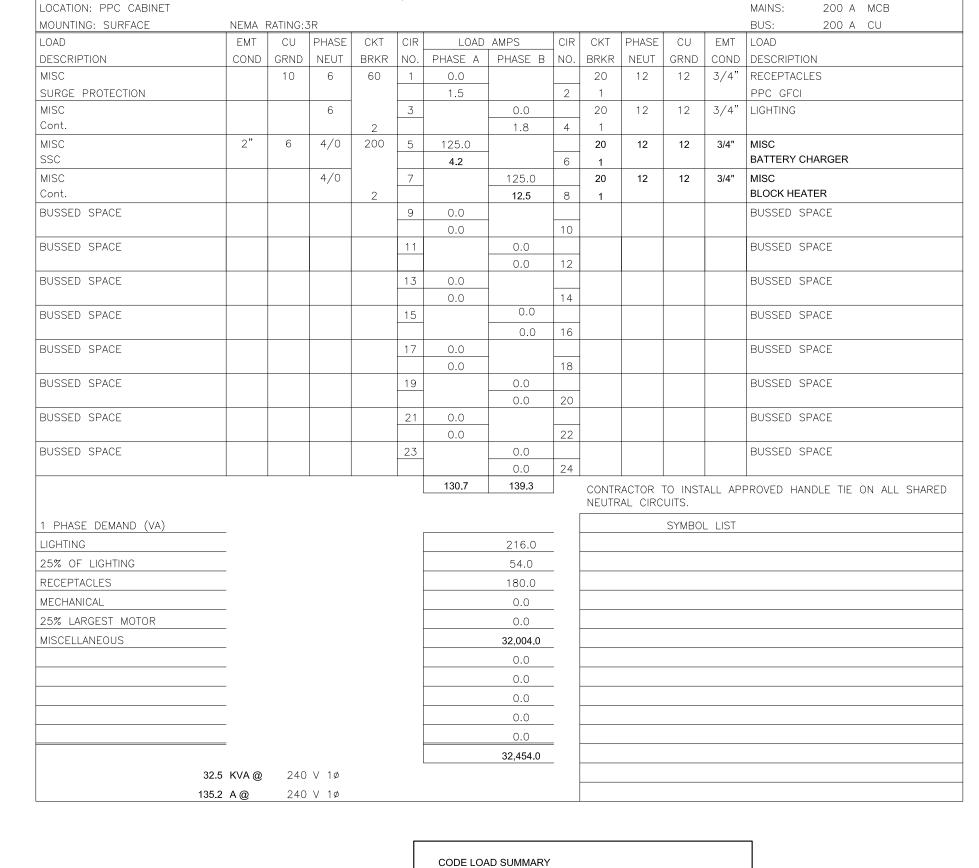
—SHEET NUMBER:



				6	5/10	OKAIC SE	ERIES RA	TED					VOLTAGE:	240 / 120 V 1ø,3W
_OCATION: PPC CABINET					- /								MAINS:	200 A MCB
MOUNTING: SURFACE	NEMA F	RATING:3	SR .										BUS:	200 A CU
LOAD	EMT	CU	PHASE	CKT	CIR	LOAD	AMPS	CIR	CKT	PHASE	CU	EMT	LOAD	
DESCRIPTION	COND	GRND	NEUT	BRKR	NO.	PHASE A	PHASE B	NO.	BRKR	NEUT	GRND	COND	DESCRIPTION	
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SURGE PROTECTION						1.5		2	1				PPC GFCI	
MISC			6		3		0.0		20	12	12	3/4"	LIGHTING	
Cont.	0.77			2			1.8	4	1					
MISC	2"	6	4/0	200	5	125.0							BUSSED SPA	ACE .
SSC			4 /0			0.0	105.0	6					DUICOED CDA	05
MISC Cont.			4/0		7		125.0	_					BUSSED SPA	ACE
BUSSED SPACE				2	9	0.0	0.0	8					BUSSED SPA	.CF
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LIGHTING 25% OF LIGHTING RECEPTACLES							54.0 180.0				SYMBOL	LIST		
LIGHTING 25% OF LIGHTING RECEPTACLES MECHANICAL							54.0 180.0 0.0				SYMBOL	LIST		
LIGHTING 25% OF LIGHTING RECEPTACLES MECHANICAL 25% LARGEST MOTOR							54.0 180.0 0.0 0.0 30,000.0				SYMBOL	LIST		
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LIGHTING 25% OF LIGHTING RECEPTACLES MECHANICAL 25% LARGEST MOTOR							54.0 180.0 0.0 0.0 30,000.0 0.0 0.0				SYMBOL	LIST		

CODE LOAD SUMMARY

PANEL 'PPC' @ 240V

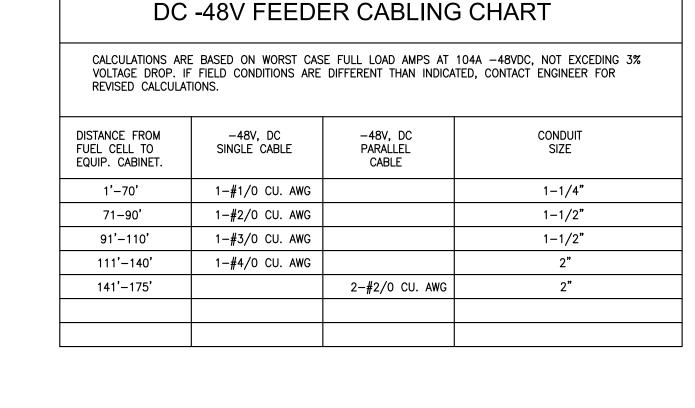


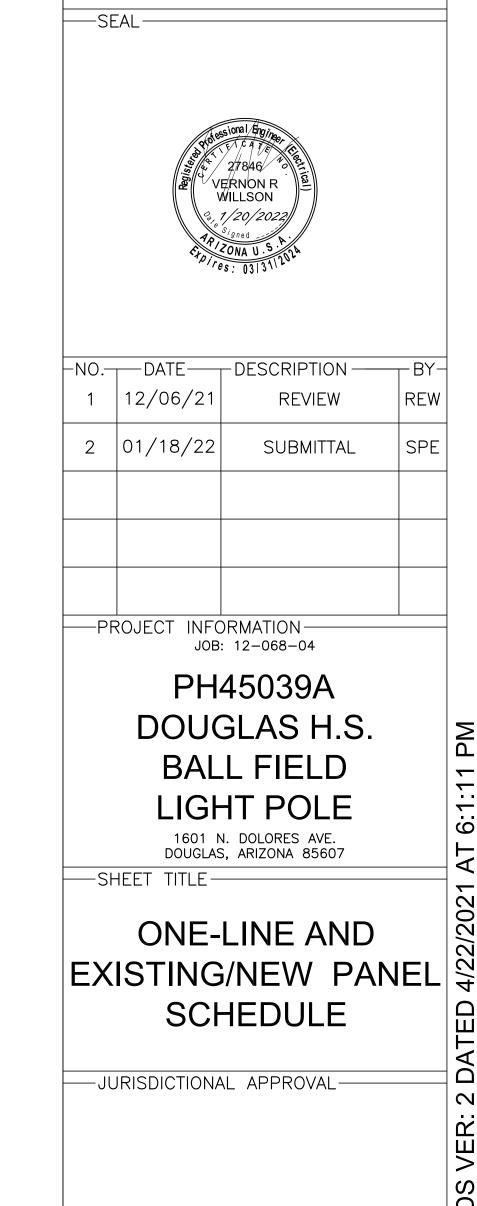
FLECTRICAL PANEL SCHEDULE

VOLTAGE: 240 / 120 V 1ø,3W

65/10KAIC SERIES RATED

UPDATED EXISTING 200 AMP PPC





— CLIENT –

CONSULTANT

1330 W. SOUTHERN AVE. STE A-102

TEMPE, ARIZONA, 85282

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LLC **EXCELLENCE IN ENGINEERING**

12005 Antelope Trail Parker, Colorado 80138

303-748-1189

info@eeparker.com

-BY-

REW

SPE

— ENGINEER OF RECORD-

FAULT CALCULATIONS 14,318 AMPS RMS SYMM PER APS PUBLISHED CHART 120/240V, 1PH FAULT AVAILABLE AT THE SERVICE: SERVICE VOLTAGE:

EXISTING 200A ATS: 4 Feet DISTANCE CONDUIT TYPE Conductive CONDUCTOR #4/0 13,879A Fault Available L-L: EXISTING 200A PPC: 4 Feet DISTANCE CONDUIT TYPE Conductive

12,375A

CONTRACTOR SHALL TAG EACH CIRCUIT CONDUCTOR AT EACH J-BOX, OUTLET, SWITCH, ETC. WITH THE CIRCUITS IDENTIFICATION.

CONDUCTOR Fault Available L-L:

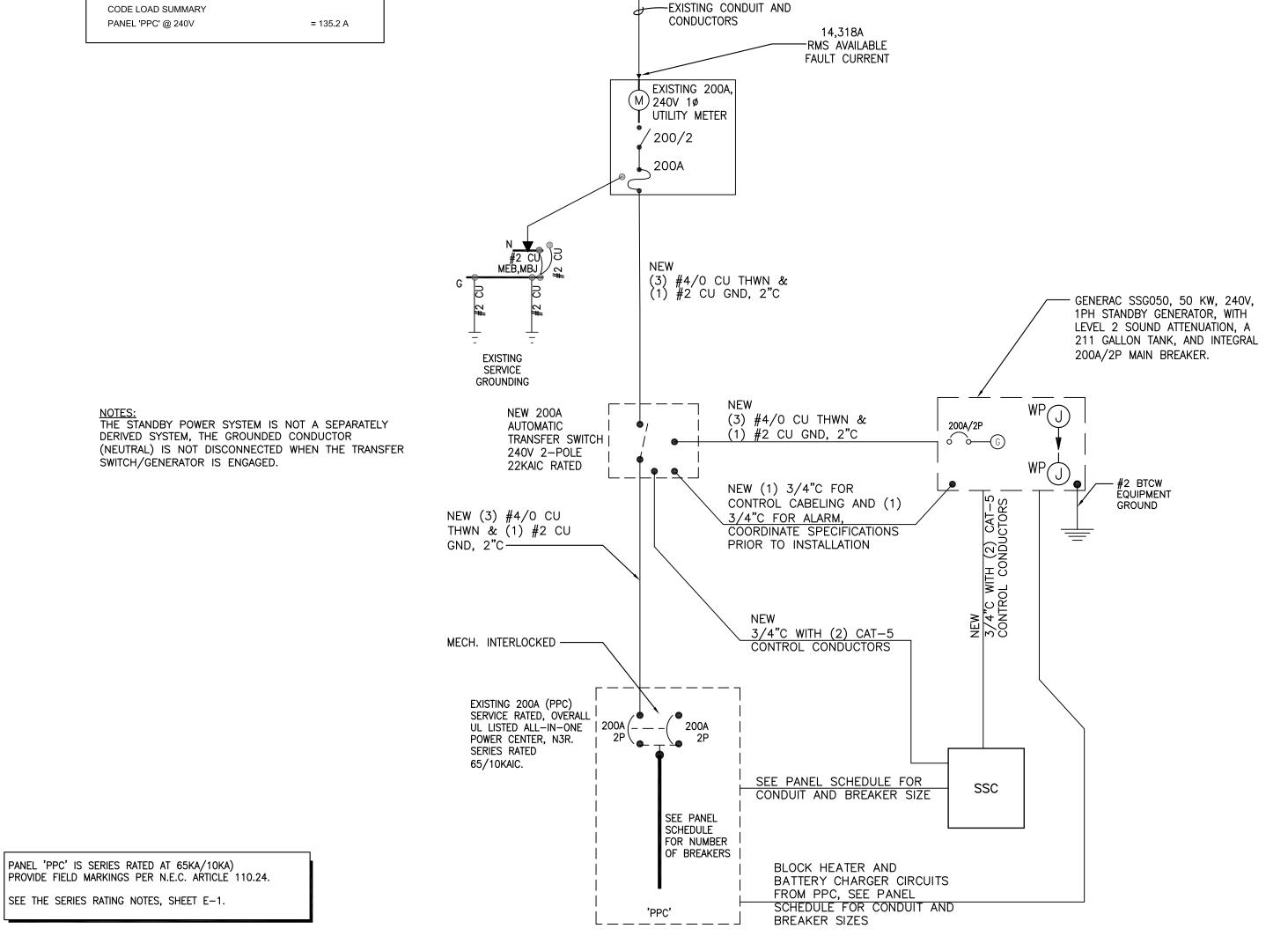
Power Company: <u>APS</u> Representative: ____ Telephone #:___ Telephone Company: Representative: Telephone #: Submit drawings to Utility Company representative as required in the General Notes included in the Electrical #6 COPPER WIRE AND GREATER SHALL BE (COPPER) THWN WIRE OR (COPPER) XHHW.

= 126.9 A

PRIOR TO RUNNING CONDUIT ROUTE — CONTRACTOR SHALL CONTACT THE T-MOBILE PROJECT MANAGER AND VERIFY THE EQUIPMENT CABINET LAYOUT CONFIGURATION AND ROUTE CONDUITS ACCORDINGLY.

PRE-CONSTRUCTION MEETING AND ELECTRICAL EASEMENT REQUIRED.

CALL 4-7 WORKING DAYS BEFORE YOU DIG 263—1100 INSIDE MARICOPA COUNTY 1-800-STAKE-I OUTSIDE MARICOPA COUNTY



EXISTING UTILITY

SECONDARY OUTPUT

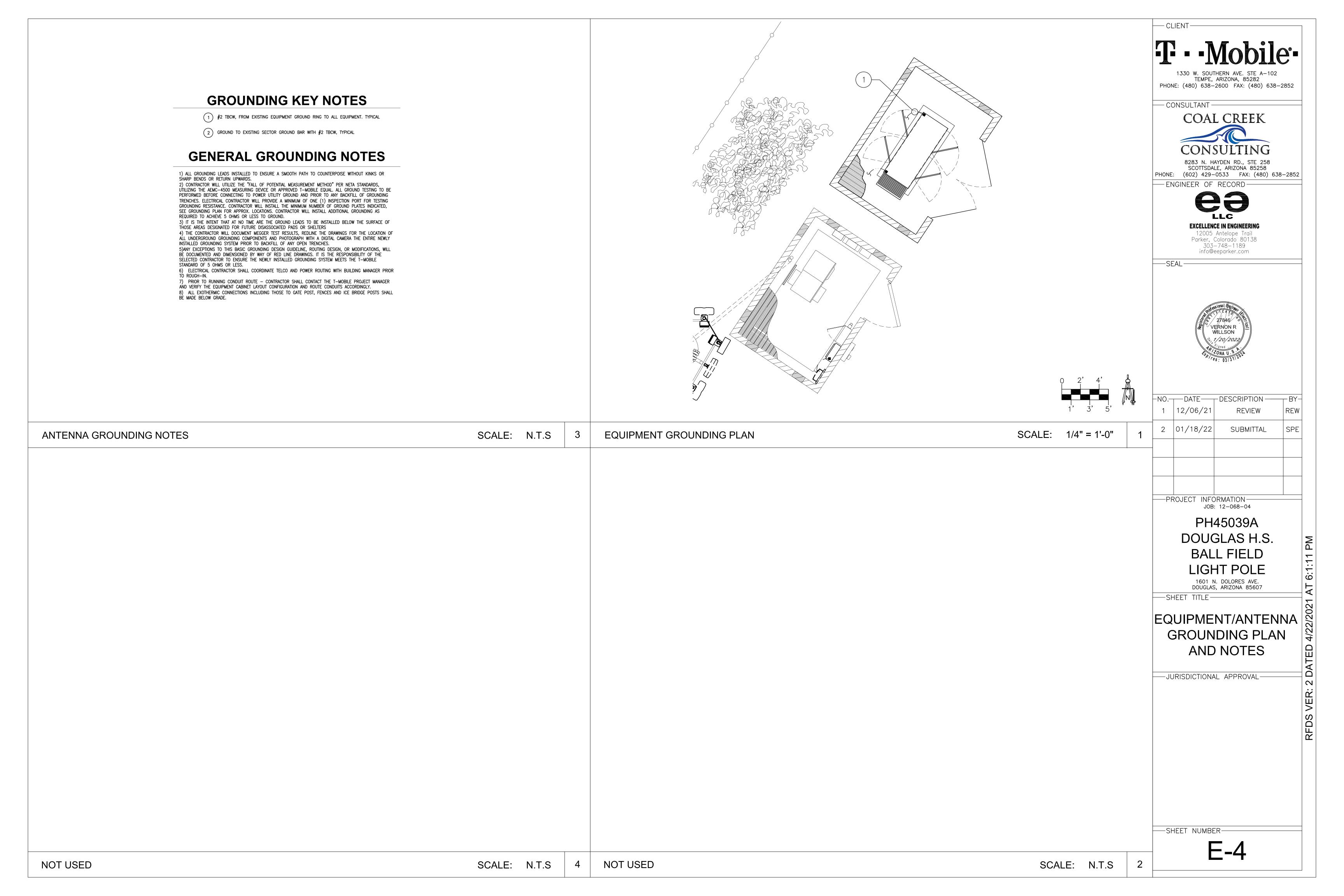
TRANSFORMER, 120/240V, 1PH

ONE-LINE DIAGRAM

ONE-LINE / PANEL SCHEDULE

-SHEET NUMBER-

E-3



DESIGN CRITERIA

- 1) THE DESIGN SHALL CONFORM TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE", 2012EDITION, AND STANDARDS REFERENCED THEREIN
- DESIGN LOADS: A. WIND (PER IBC)
 - P=14.8 PSF SCREEN
- 3) THE CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE", 2012 EDITION AND STANDARDS REFERENCED THEREIN

GENERAL NOTES

- 1) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF ANY DISCREPANCIES FOUND.
- 2) ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEED WITH ANY WORKS INVOLVED.
- 3) IN CASE OF CONFLICT, NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND "TYPICAL DETAILS" ON THESE DRAWINGS.
- 4) WHERE NO CONSTRUCTION DETAIL IS SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK
- 5) IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS
- 6) THESE DRAWINGS SHOW THE STRUCTURE, AS IT IS TO BE UPON THE COMPLETION OF CONSTRUCTION, THE DESIGN, ERECTION, AND REMOVAL OF TEMPORARY BRACING, SHORING,
- FALSE WORK, ETC. REQUIRED FOR THE CONSTRUCTION OF THE STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS NOT SHOWN ON THESE DRAWINGS. 7) CONSTRUCTION METHODS, SEQUENCING, AND SCHEDULING ARE THE RESPONSIBILITY OF THE CONTRACTOR
- 8) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING EQUIPMENT AND UTILITIES IN THE WORK AREA AND SHALL REPAIR ANY DAMAGE CAUSED BY HIS OPERATIONS AT HIS OWN COST.
- 9) ALL ASTM STANDARDS LISTED HERIN, SHALL BE OF THE ISSUE LISTED IN THE 2001 ANNUAL BOOK OF STANDARDS SECTIONING 00, VOLUME 00.01 OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS
- 10) FLASHING AND/OR WATERPROOFING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 11) THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION. OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).
- 12) WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT. 13) NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- 14) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE DESIGNER. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 15) CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

MATERIAL NOTES

- 1) ALL PARTS CONTAIN SUPPORTS AS REQUIRED TO KEEP WITHIN ALLOWABLE TOLERANCES
- 6) STRUCTURAL STEEL SHAPES AND PLATES SHALL BE ASTM A36
- 7) ALL EXPOSED STRUCTURAL STEEL SHAPES AND CONNECTORS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. A VERIFY ALL DIMENSIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

MASONRY WALL NOTES

2012 INTERNATIONAL BUILDING CODE DESIGN ACTIVE PRESSURE: 30 PSF/FT SOIL: 1.500 psf. 0.25, 150 PSF/FT PASSIVE PRESSURE PER 2012 IBC TABLE 1804.2 WIND LOAD: 90 MPH ZONE - EXPOSURE C MAX WIND LOAD ON SCREEN WALL 14.8 PSF

CONCRETE MASONRY UNITS: f'm=1,500 psi ASTM C90 GRADE N-1 MORTAR: f'm=1,800 psi, CEMENT LIME TYPE S, PER IBC 2103.3

PORTLAND CEMENT: TYPE V GROUT: f'g=2,000 psi, PER IBC 2103.4

CONCRETE: f'c=2,500 psi 3" to 5" SLUMP NOTE: MORTAR, GROUT, AND CONCRETE WITH 28-DAY COMPRESSIVE STRENGTH

REINFORCING STEEL: Fy=60,000 psi A-615, GRADE 60

1. LAY UNITS IN RUNNING BOND. CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS.

2. 4'-0" MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS

3. GROUT SOLID ALL WALLS IN CONTACT WITH EARTH.

4. 1/4" EXPANSION AND CONTROL JOINTS SHALL BE PLACED EVERY 20-FEET AND PROPERLY SEALED.

5. TIE VERTICAL REINFORCING AT EACH END OF BAR AND AT 4'-0" MAXIMUM VERTICAL SPACING USING SINGLE WIRE LOOP TYPE TIES.

6. PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEAN SO THAT ALL SPACES TO BE FILLED WITH GROUT DO NOT CONTAIN MORTAR PROJECTIONS GREATER THAN 1/2 INCH. MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL. GROUT SHALL BE PLACED SO THAT ALL SPACES DESIGNATED TO BE GROUTED SHALL BE FILLED WITH GROUT AND THE GROUT SHALL BE CONFINED TO THOSE SPECIFIC SPACES.

7. GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT, WITHOUT SEGREGATION OF THE CONSTITUENTS, AND SHALL BE MIXED THOROUGHLY.

8. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.

9. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL C.M.U. AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL. GROUT SHALL BE PLACED SO THAT WHERE BOND BEAMS OCCUR, THE GROUT POUR SHALL BE STOPPED A MINIMUM OF 1/2 INCH BELOW THE TOP OF THE MASONRY.

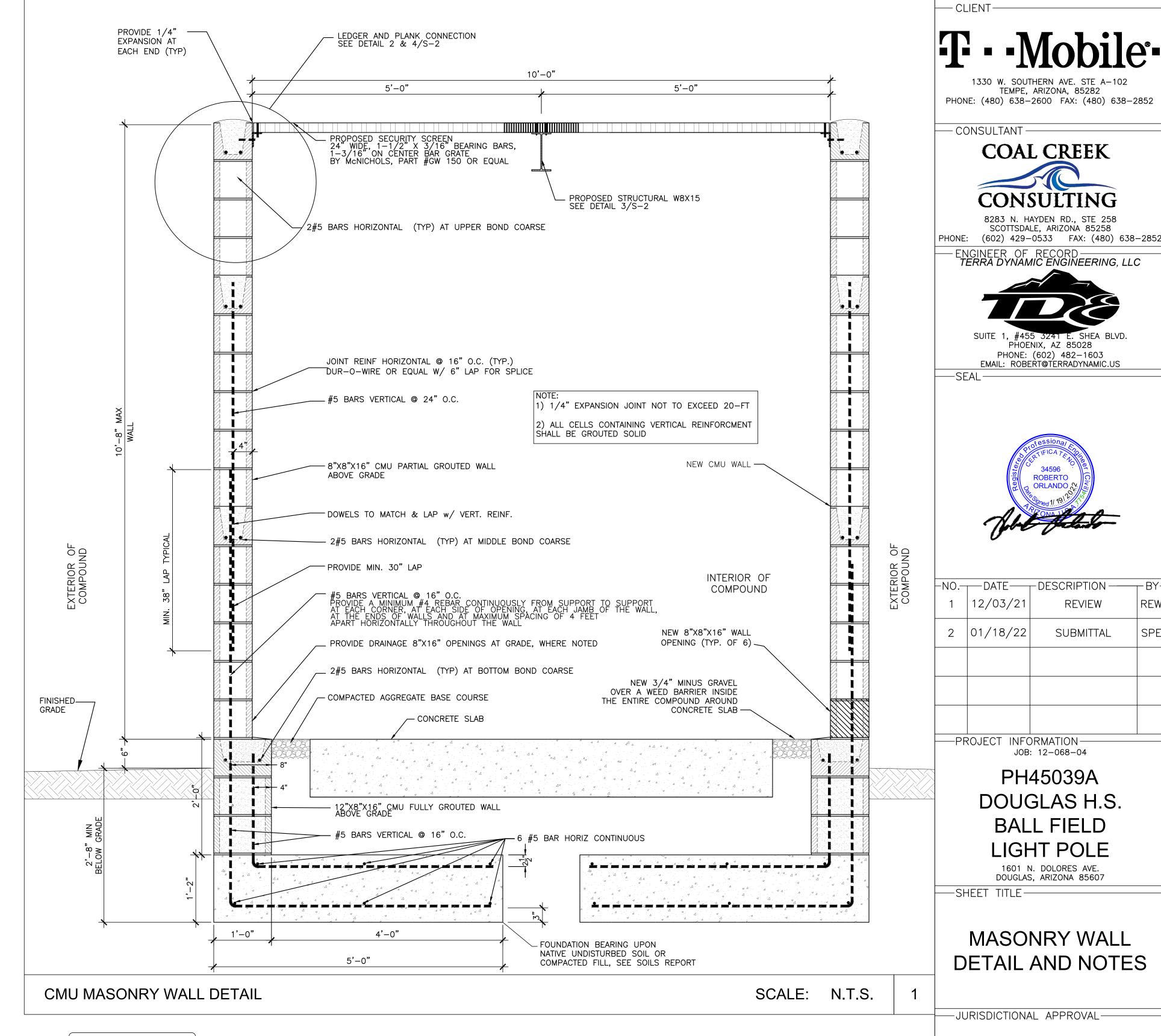
10. SEGREGATION OF GROUT MATERIALS AND DAMAGE TO THE MASONRY SHALL BE AVOIDED DURING THE GROUTING PROCESS.

11. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES IN HEIGHT WILL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO WHERE BOND BEAMS OCCUR, THE GROUT POUR SHALL BE STOPPED A MINIMUM OF 1/2 MECHANICALLY VIBRATED OR PUDDLED AND RODDED WITH SMOOTH BAR.

12. GROUT SHALL NOT BE HANDLED NOR PUMPED UTILIZING ALUMINUM EQUIPMENT UNLESS IT CAN BE DEMONSTRATED WITH THE MATERIAL AND EQUIPMENT TO BE USED THAT THERE WILL BE NO DELETERIOUS EFFECT ON THE STRENGTH OF THE GROUT.

- 13. BRACE RETAINING WALL DURING BACKFILL OF SOIL. HEAVY EQUIPMENT IS NOT ALLOWED WITHIN 10 FEET OF THE RETAINING WALL.

14. AT MINIMUM, ALL LAPS SHOULD BE 40 X Db (BAR DIAMETER) IN EITHER HORIZONTAL OR VERTICAL DIRECTION.



wo working days before you did CALL FOR THE BLUE STAKES Blue Stake Center CALL COLLECT

ENGINEERS NOTES:

IF A DISCREPANCY ARISES BETWEEN THE DRAWINGS AND FIELD CONDITIONS, OR WHERE A DETAIL IS DOUBTFUL OF INTERPRETATION, OR AN UNANTICIPATED FIELD CONDITION IS ENCOUNTERED, THE ENGINEER SHALL BE CALLED IMMEDIATELY FOR PROCEDURE TO BE FOLLOWED. SUCH INSTRUCTIONS SHALL BE CONFIRMED IN WRITING AND DISTRIBUTED TO ALL AFFECTED PARTIES.

THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS. TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DRAWING AND/OR DOCUMENTS.

SPECIAL INSPECTION NOTE

MASONRY WALLS OVER 6'8" PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS

- 5) CONSTRUCTION OF MORTAR JOINTS

CALL CIVIL ENGINEER OF RECORD FOR SPECIAL INSPECTIONS . <u>ALLOW 48 HOURS NOTICE</u> FOR EACH INSPECTION REQUEST

FOR ANY VARIATIONS OR ABNORMALITIES IN SITE OR SOIL CONDITIONS PRIOR TO PROCEEDING WITH WORK

- 1) SIZE AND LOCATION OF STRUCTURAL ELEMENTS 2) MORTAR PRIOR TO CONSTRUCTION
- 3) PLACEMENT OF REINFORCING STEEL, VERIFICATION OF SIZE, AND GRADE 4) GROUT SPACE IS CLEAN PRIOR TO GROUTING

CONTRACTOR TO VERIFY AND MONITOR SITE CONDITIONS. CONTACT ARCHITECT OR ENGINEER

PHOENIX, AZ 85028

ROBERTO ORLANDO A

JOB: 12-068-04

REVIEW

SUBMITTAL

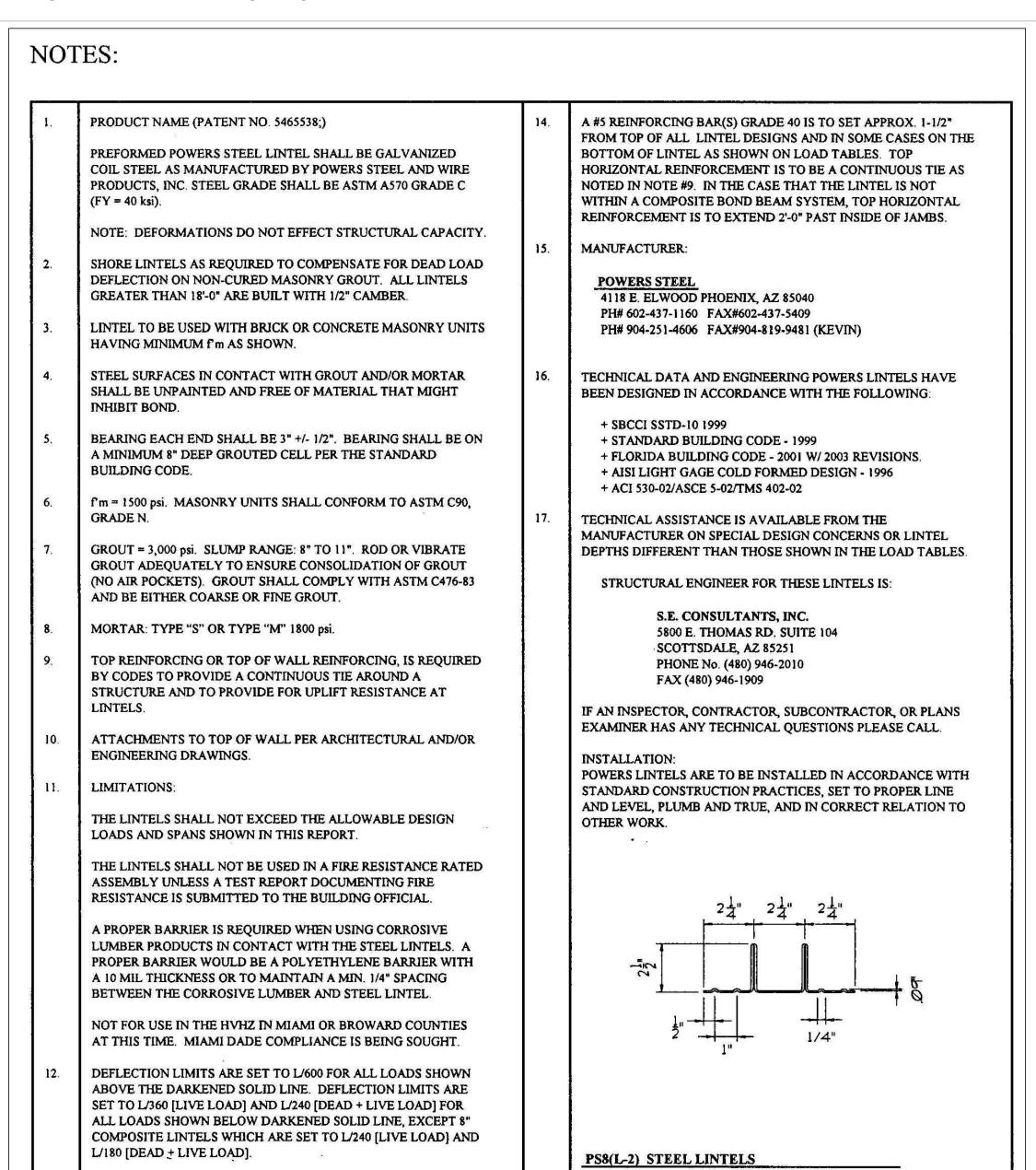
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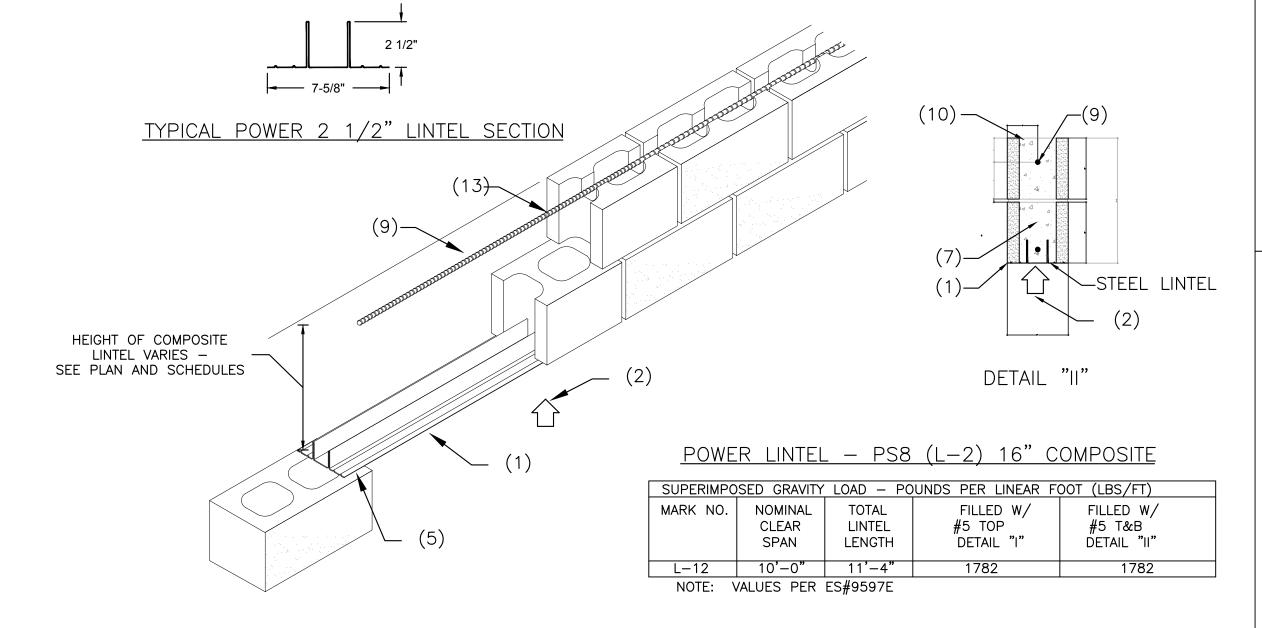
REW

SCALE: N.T.S.

—SHEET NUMBER-

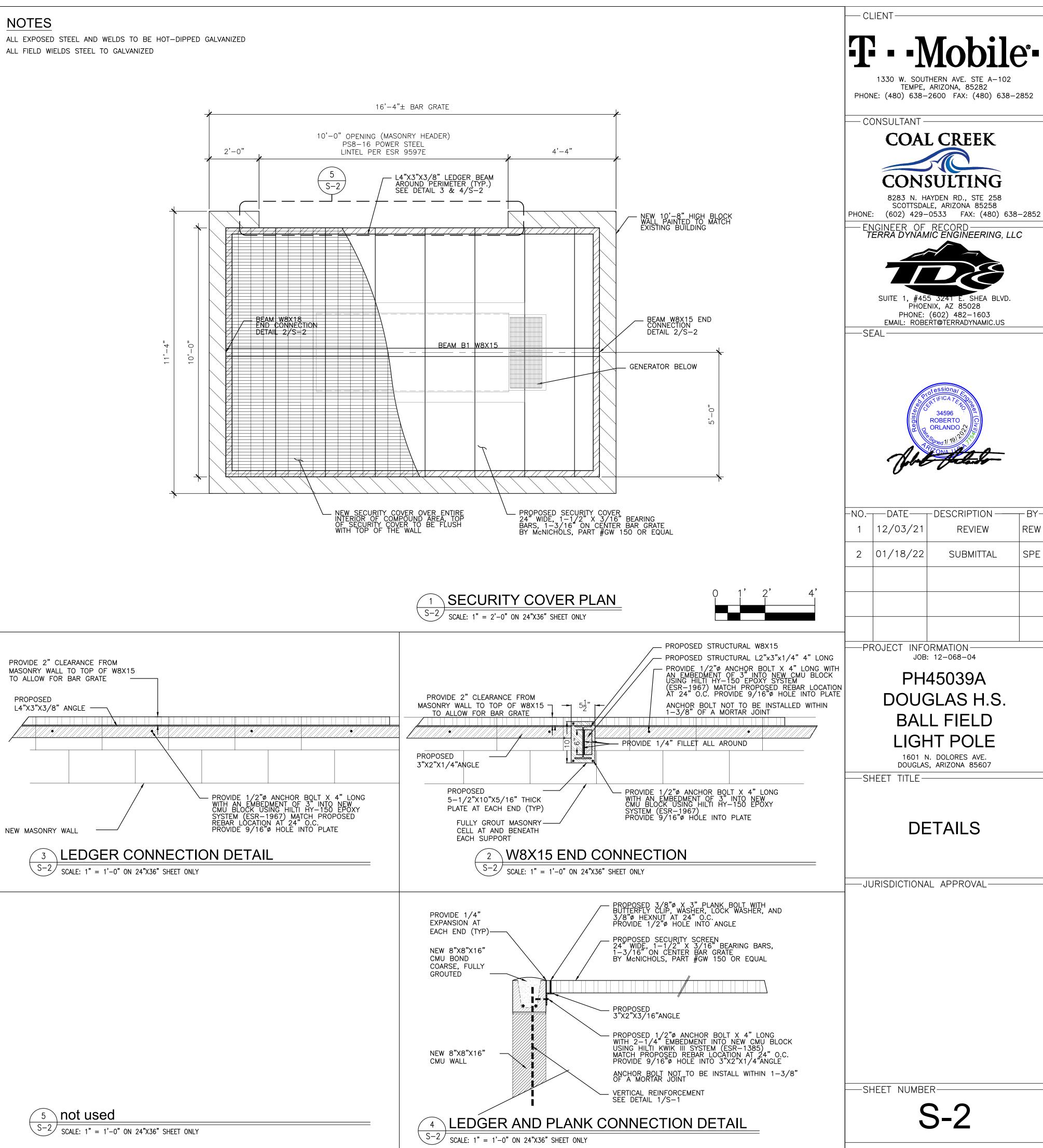
POWER STEEL LINTEL NOTES





NO SCALE

16 GAGE IS .060 INCHES THICK.



6 PS8 - 16" (L-2) POWERS STEEL LINTEL
S-2 SCALE: NTS

ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS.

TABLES ARE DATED 10/2004 AND CLEARLY INDICATE

SUPERIMPOSED LOADS