

Metro Employee Stamp Page

Nashville Fire Department
Fire Prevention Bureau

- X Reviewed
- X See Comment Sheet

SUBJECT TO APPROVAL BY
OTHER METRO DEPARTMENTS

Joseph Almon
Fire Plans Examiner

04/06/2018



IGNORED. NO LIFE SAFETY INSPECTION
NEEDED.

	REVIEWED AS NOTED HERE ON DEPARTMENT OF CODES AND BUILDING SAFETY
THIS SET OF PLANS SHALL BE PRINTED AND AVAILABLE ON THE JOBSITE DURING CONSTRUCTION.	
NOTICE: This project may be subject to the provisions of the Americans with Disabilities Act (ADA) of 1991. You should contact the ADA Hotline at 202-514-0301 before commencing work. Failure to comply may result in Federal fines and penalties.	
FIRE STOPPING REQUIREMENT Penetrations thru rated walls and floors shall be sealed with material capable of preventing the passage of flames and hot gasses when subjected to the requirements of the Test Standard specific for Fire Stops UL 1479 (ASTM E 814)	
REVIEWED BY: <i>Scott</i>	DATE: 4-6-18
Permit ID Number:	2018016409

GENERAL SITE WORK NOTES CONTINUED

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- 2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:
- 2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.3 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS SILTS AND CLAYS (LL>45), MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.00 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO. 200 (0.75 MM)	3 TO 15

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE

DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.

- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. THE BASE OF ALL FOUNDATION EXCAVATIONS SHOULD BE FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING TO MINIMIZE BEARING SOIL DISTURBANCE. SHOULD THE SOILS AT BEARING LEVEL BECOME EXCESSIVELY DRY, SATURATED, DISTURBED OR OTHERWISE ALTERED, THE AFFECTED SOIL SHOULD BE REMOVED PRIOR TO PLACING CONCRETE.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- E. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTION EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- F. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.
- D. CONTRACTOR TO GRADE SITE TO DRAIN AND NOT POND WATER.

3.6 ASPHALT PAVING:

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING PER LOCAL DOT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

SIGN POST NOTES.

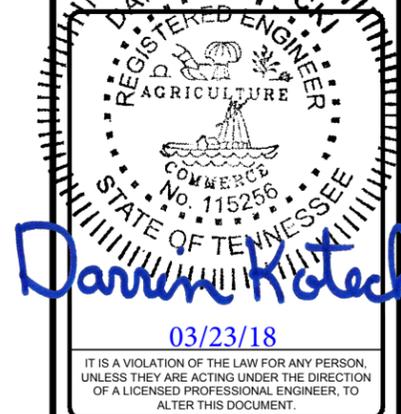
- 1. ACCEPTABLE COLOR SUBSTITUTIONS:
- 2. OTHER ACCEPTABLE COLORS CAN BE FOUND ON ENCYCOLORPEDIA.COM
- 3. CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS ARE NECESSARY FOR ANY SIGN POST INSTALLATIONS, I.E. POST MATERIAL, PAINT COLORS, HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS PRIOR TO INSTALLATION.

PAINT COLOR SUBSTITUTIONS	
BRAND	COLOR
PANTONE	COOL GRAY #7 #a6a19e
BENJAMIN MOORE	FUSION / Af-675 #a6a3a1
BEHR	EQUINOX FF31-1 #9fa29d
SHERWIN - WILLIAMS	STAMPED CONCRETE - 7655 #a2a29b
VALSPAR	STONE MASON GRAY #a19c99



GPD PROJECT NUMBER:	2017241.63
DRAWN BY:	KSB
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	SHAWN GLEASON

REV	DATE	DESCRIPTION
B	03/22/18	ISSUED FOR 100% REVIEW
A	03/21/18	ISSUED FOR 100% REVIEW



1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

VICINITY MAP



PROPERTY DESCRIPTION:

LAND IN DAVIDSON COUNTY, TENNESSEE, BEING UNIT No. 2, ON THE HORIZONTAL PROPERTY REGIME FOR GULCH LAND CONDOMINIUM, AS RECORDED IN MASTER DEED OF RECORD AS INSTRUMENT No. 20071018-0123668, AND AMENDED AS INSTRUMENT No. (S) 20111109-0087667 AND 20131115-0118469, REGISTER'S OFFICE FOR DAVIDSON COUNTY, TENNESSEE, TO ALL OF WHICH REFERENCE IS HEREBY MADE FOR A MORE COMPLETE DESCRIPTION TOGETHER WITH AN UNDIVIDED PERCENTAGE INTEREST IN THE COMMON ELEMENTS ALLOCATED TO SAID UNIT AS SET FORTH IN SAID MASTER DEED.

BEING PART OF THE SAME PROPERTY CONVEYED TO NASHVILLE URBAN VENTURE, LLC, BY DEED FROM C. MARK CARVER, TRUSTEE, OF RECORD AS INSTRUMENT No. 20070729-0088930, DATED JULY 26, 2007, SAID REGISTER'S OFFICE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A PK NAIL FOUND IN EAST RIGHT-OF-WAY OF 11TH AVENUE SOUTH, BEING THE NORTHWEST CORNER OF THIS HEREIN DESCRIBED TRACT OF LAND, THENCE LEAVING SAID RIGHT-OF-WAY OF 11TH AVENUE SOUTH, NORTH 62° 35' 32" EAST, 109.40 FEET TO A PK NAIL FOUND; THENCE NORTH 82° 16' 58" EAST, 25.47 FEET TO A PK NAIL FOUND; THENCE SOUTH 27° 24' 27" EAST, 308.11 FEET TO AN IRON PIN FOUND; THENCE WITH A CURVE TO THE LEFT 154.98 FEET, HAVING A RADIUS OF 408.10 FEET WITH A CHORD BEARING AND DISTANCE OF SOUTH 38° 17' 14" EAST, 154.06 FEET TO A PK NAIL FOUND; THENCE SOUTH 49° 13' 43" EAST, 48.26 FEET TO A PK NAIL FOUND; THENCE SOUTH 62° 45' 37" WEST, 78.28 FEET TO A POINT; THENCE SOUTH 27° 14' 23" EAST, 3.00 FEET TO A POINT; THENCE SOUTH 62° 45' 37" WEST, 14.00 FEET TO A POINT; THENCE NORTH 27° 14' 23" WEST, 3.00 FEET TO A POINT; THENCE RETURNING TO SAID RIGHT-OF-WAY, SOUTH 82° 45' 37" WEST, 78.88 FEET TO A PK NAIL FOUND; THENCE WITH THE RIGHT-OF-WAY OF 11TH AVENUE SOUTH, WITH A CURVE TO THE LEFT 80.75 FEET, HAVING A RADIUS OF 926.00 FEET WITH A CHORD BEARING AND DISTANCE OF NORTH 38° 24' 34" WEST, 88.72 FEET TO A PK NAIL FOUND; THENCE WITH SAID RIGHT-OF-WAY, WITH A CURVE TO THE RIGHT 40.05 FEET, HAVING A RADIUS OF 164.00 FEET WITH A CHORD BEARING AND DISTANCE OF NORTH 34° 09' 33" WEST, 59.95 FEET TO AN IRON PIN FOUND; THENCE WITH THE RIGHT-OF-WAY OF 11TH AVENUE SOUTH, NORTH 27° 09' 48" WEST, 122.71 FEET TO A RAILROAD SPIKE FOUND; THENCE WITH THE RIGHT-OF-WAY OF 11TH AVENUE SOUTH, NORTH 27° 07' 13" WEST, 52.20 FEET TO A RAILROAD SPIKE FOUND; THENCE WITH THE RIGHT-OF-WAY OF 11TH AVENUE SOUTH, NORTH 24° 27' 24" WEST, 93.06 FEET TO AN IRON PIN FOUND; THENCE NORTH 26° 53' 16" WEST, 20.90 FEET TO THE POINT-OF-BEGINNING CONTAINING 74,001.40 SQUARE FEET OR 1.70 ACRES MORE OR LESS.

Being part of the same property conveyed to NASHVILLE URBAN VENTURE, LLC, by deed from C. MARK CARVER, Trustee, of record as Instrument No. 20070729-0088930, dated July 26, 2007, said Register's Office. NASHVILLE URBAN VENTURE, LLC conveyed their interest to METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY, TENNESSEE by deed of record as instrument No. 20131127-0121723, dated November 26, 2013, said Register's Office and then further conveyed to GULCH CROSSING, LLC, A TENNESSEE LIMITED LIABILITY COMPANY, by deed from METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY, TENNESSEE, of record as instrument No. 20131127-0121724, dated November 22, 2013, said Register's Office.

SCHEDULE B2 EXCEPTIONS:

- Item No.
- Matters shown on the Plan of record in Plat Book 9700, page 763, said Register's Office. --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE.
 - Maintenance and Buffer Easement of record in Book 11621, page 110, said Register's Office. --DOES NOT AFFECT SURVEY AREA.
 - Restrictive Covenants contained in instrument of record in Book 11621, page 110 and as instrument no. 20050401-0035633, said Register's Office. --DOES NOT AFFECT SURVEY AREA.
 - Notice of Land Use Restrictions of record as instrument No. 20100511-0036052, said Register's Office. --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE.
 - Declaration of Restrictions and Covenants for Storm water Facilities and System of record as instrument No. 20131016-0108139, said Register's Office. --AFFECTS SURVEY AREA AND THE APPROXIMATE LOCATION SHOWN HEREON.
 - Ordinance Approving Arts Center Redevelopment Plan with amendment of record in Book 10965, page 404, said Register's Office. (Ordinance # 098-1188) --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE.
 - Arts Center Redevelopment Plan Restrictive Covenants with Supplemental Requirement of record in Book 11625, page 252, said Register's Office. --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE.
 - Air Rights, Easements and Restrictions of record as instrument No. 20070308-0028456, said Register's Office. --AFFECTS SURVEY AREA AND IS SHOWN HEREON AS DEMONBREUN STREET.
 - Master Deed of record as instrument No. 20071018-0123668, amended as instrument No. 20111109-0087667 and 20131115-0118469, said Register's Office. --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE.
 - Matters shown on the Plan of record as instrument No. 20140317-0022033, said Register's Office. --AFFECTS SURVEY AREA AND IS BLANKET IN NATURE AND AS APPROXIMATELY SHOWN HEREON.
- Items not listed above are determined non-survey related items and are not plotted hereon.

NOTES:

- This is a topographic map. This is not a boundary survey and is only intended to depict those topographic features or improvements shown. The property lines shown are record lines only and are shown for graphical reference only.
- Any underground utilities shown have been located from field survey information. The surveyor makes no guarantee 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 he does certify that they are located as accurately as possible from the information available.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map, Map Number 47037C0243H effective date 4/5/2017, indicates this parcel of land is located in Zone X (Areas of 0.2% annual chance flood plain).
- This survey does not constitute a title search by Clark Land Surveying, Inc. to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Clark Land Surveying, Inc. relied upon a Information Letter, prepared by Old Republic Title Company of Tennessee with a reference number of 171854, dated May 02, 2017.
- Elevations are based on NAVD 88 datum.
- BENCHMARK: Mag nail & Disc, as shown. Elevation: 460.49' (NAVD 88).
- BASIS OF BEARINGS: Bearings are relative to those shown described in that Out Claim Deed, recorded November 27, 2013 as instrument No. 20131127-0121723 of the Official Public Records of Davidson County, Tennessee, if rotated 01°57'30" clockwise.
- Field work for this survey was completed on May 3, 2017.
- This site is zoned "DTC" (Downtown Code) per City of Nashville Planning Department. Building Setbacks: None.

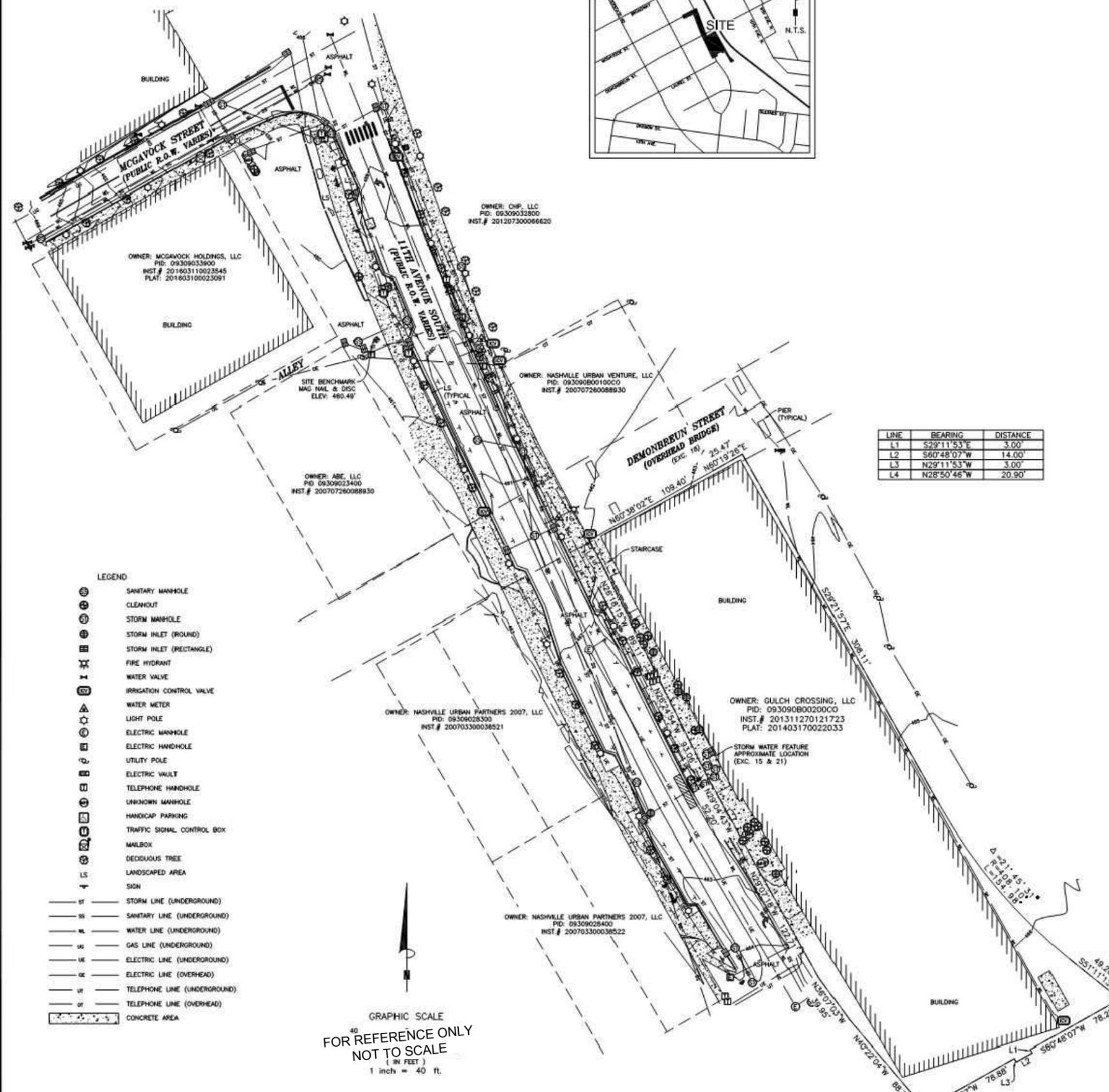
SURVEYOR'S STATEMENT:

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of Tennessee and that the information shown hereon is true and correct to the best of my knowledge and belief.

This statement is neither a warranty nor a guarantee, either expressed or implied.



Steven W. Abbott
Tennessee Registered Land Surveyor No. 2029
For and on behalf of Clark Land Surveying, Inc.



LINE	BEARING	DISTANCE
L1	S29°11'53"E	3.00'
L2	S60°48'07"W	14.00'
L3	N29°11'53"W	3.00'
L4	N28°50'46"W	20.90'

- LEGEND
- ⊙ SANITARY MANHOLE
 - ⊕ CLEANOUT
 - ⊙ STORM MANHOLE
 - ⊙ STORM INLET (ROUND)
 - ⊙ STORM INLET (RECTANGLE)
 - ⊕ FIRE HYDRANT
 - ⊕ WATER VALVE
 - ⊕ IRRIGATION CONTROL VALVE
 - ⊕ WATER METER
 - ⊕ LIGHT POLE
 - ⊕ ELECTRIC MANHOLE
 - ⊕ ELECTRIC HANDHOLE
 - ⊕ UTILITY POLE
 - ⊕ ELECTRIC VAULT
 - ⊕ TELEPHONE HANDHOLE
 - ⊕ UNKNOWN MANHOLE
 - ⊕ HANDICAP PARKING
 - ⊕ TRAFFIC SIGNAL CONTROL BOX
 - ⊕ MAILBOX
 - ⊕ DECIDUOUS TREE
 - ⊕ LANDSCAPED AREA
 - ⊕ SIGN
 - ST --- STORM LINE (UNDERGROUND)
 - SS --- SANITARY LINE (UNDERGROUND)
 - W --- WATER LINE (UNDERGROUND)
 - G --- GAS LINE (UNDERGROUND)
 - E --- ELECTRIC LINE (UNDERGROUND)
 - OE --- ELECTRIC LINE (OVERHEAD)
 - T --- TELEPHONE LINE (UNDERGROUND)
 - TO --- TELEPHONE LINE (OVERHEAD)
 - C --- CONCRETE AREA

GRAPHIC SCALE
FOR REFERENCE ONLY
NOT TO SCALE
(IN FEET)
1 inch = 40 ft.



No.	Description	By	Date

SITE NAME:
Nashville-Gulch

TOPOGRAPHIC SURVEY
A PORTION OF 11TH AVENUE SOUTH
BETWEEN MCGAVOCK STREET AND LAUREL STREET
CITY OF NASHVILLE, DAVIDSON COUNTY, TENNESSEE

Project No. 170-309
Date: 5/8/2017
Sheet 1 of 1
Drawn By: JPN
Checked By: SWA

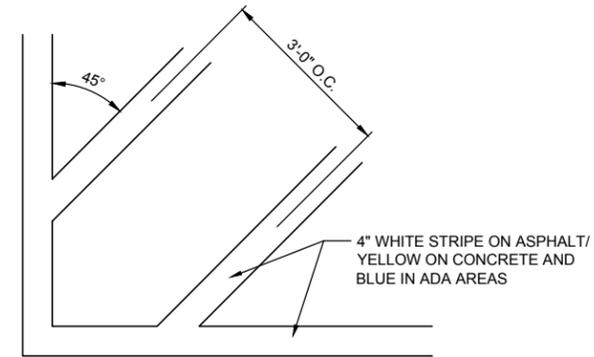


3600 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-6000



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

GPD PROJECT NUMBER:	2017241.63
DRAWN BY:	KSB
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	SHAWN GLEASON



NOTES:

1. ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE.
2. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC, PER LOCAL REQUIREMENTS AND AS FOLLOWS:
 - 2.1. EXISTING SURFACES WITHOUT ANY SEAL COATING: OIL BASE (ALKYD RESIN TYPE TO MEET FEDERAL SPECIFICATION TTP-1952.
 - 2.2. NEW OR EXISTING SURFACES WITH A TOP COATING OR SEAL COATING (USUALLY WATER BASE FAST DRYING 100% ACRYLIC TYPE): WATER BASE TYPE TO MEET FEDERAL SPECIFICATION TTP-01952. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D3723, D1475, D562 AND D711.
3. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
4. APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

DETAIL NOT USED

N.T.S

5

DETAIL NOT USED

N.T.S

3

TRANSVERSE STRIPING DETAIL

N.T.S

1

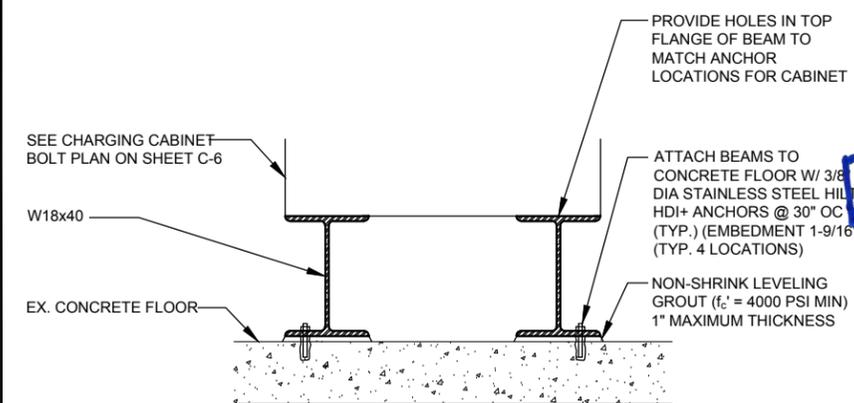
REV	DATE	DESCRIPTION
B	03/22/18	ISSUED FOR 100% REVIEW
A	01/24/18	ISSUED FOR 100% REVIEW

DARIN KOTACHI
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
No. 115256
STATE OF TENNESSEE
03/23/18
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-7



NOTE:
CONTRACTOR SHALL VERIFY POST TENSIONING LOCATION AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB PRIOR TO INSTALLATION OF ANCHORS AND ENSURE PROPER CLEARANCE (REINFORCEMENT DIAMETER MINIMUM) BETWEEN ANCHORAGE SYSTEM AND EXISTING REINFORCEMENT IS ACHIEVED.

DETAIL NOT USED

N.T.S

6

DETAIL NOT USED

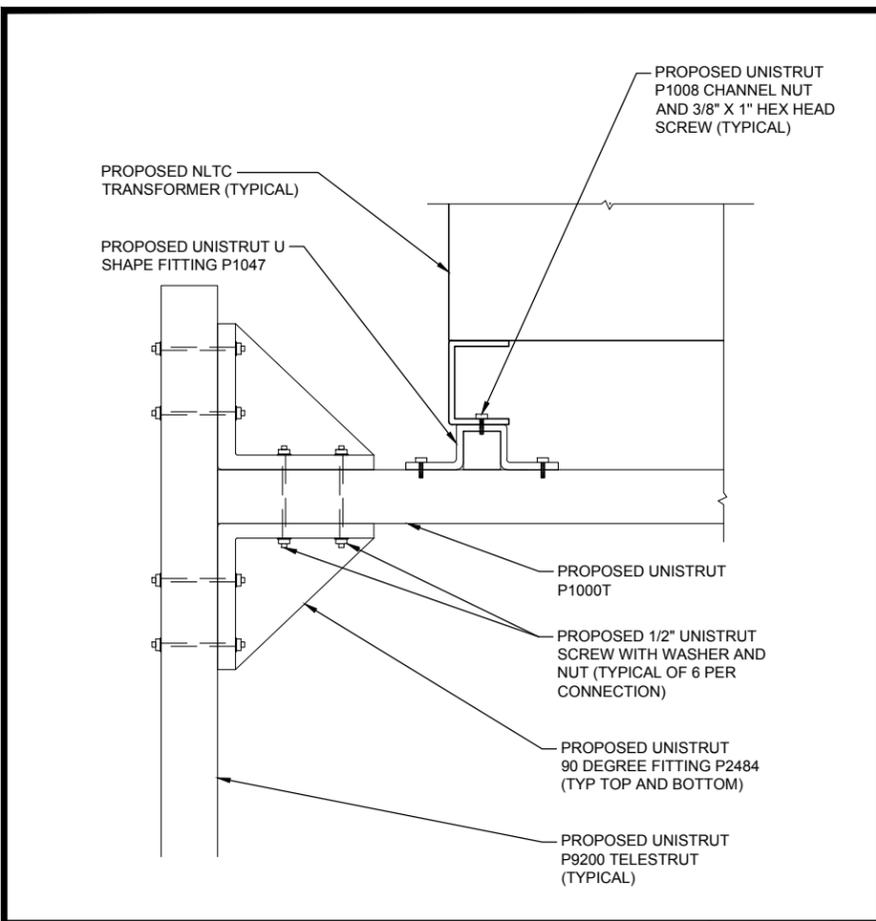
N.T.S

4

BEAM ATTACHMENT DETAIL

N.T.S

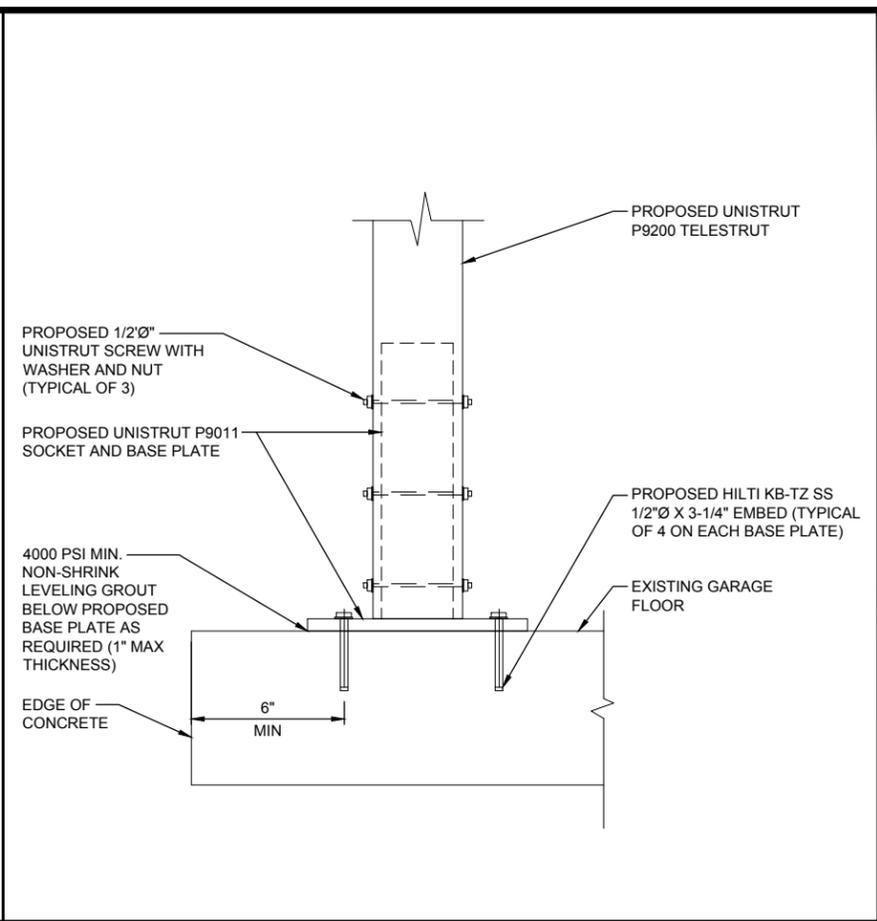
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CONNECTION DETAIL

N.T.S

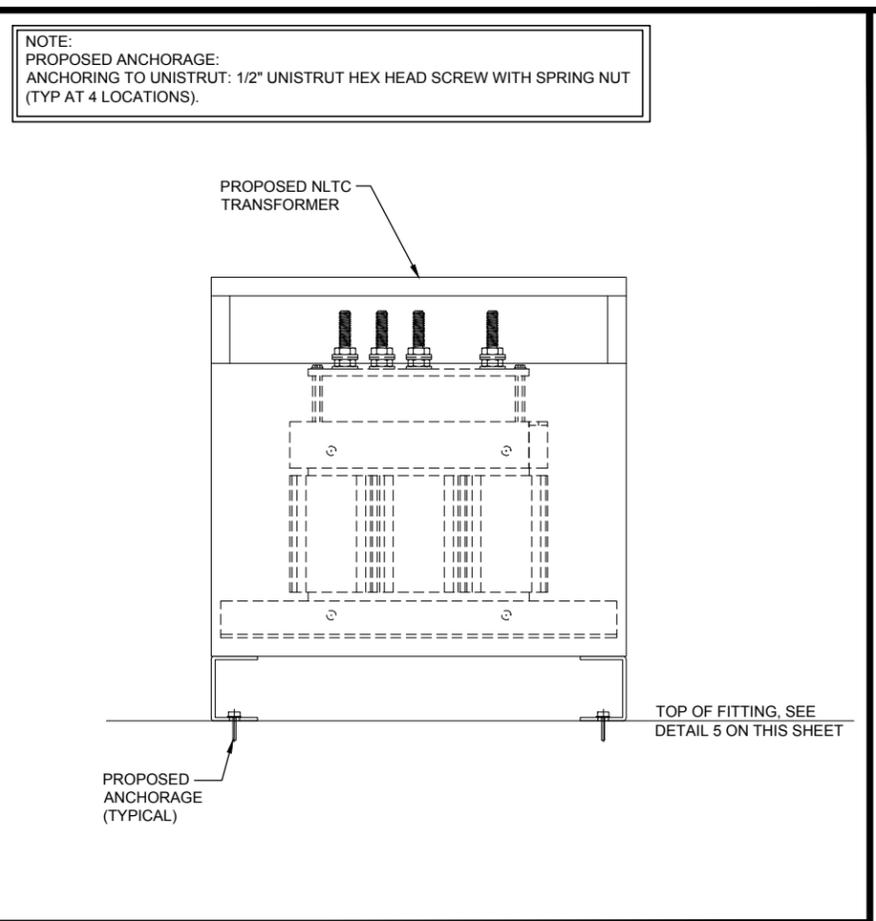
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POST ANCHORAGE DETAIL

N.T.S

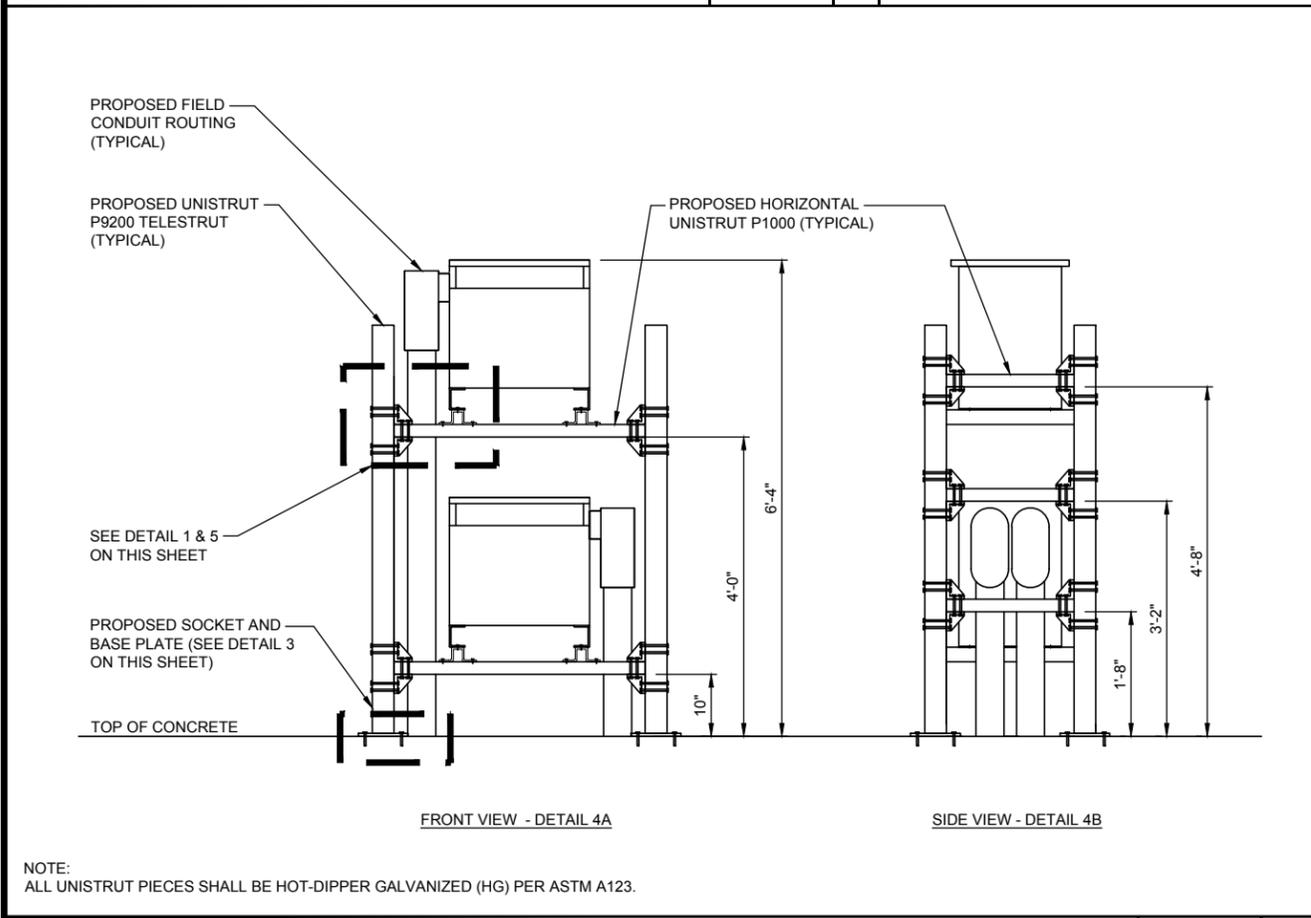
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NLTC TRANSFORMER ANCHORAGE DETAIL

N.T.S

1



FRONT VIEW - DETAIL 4A

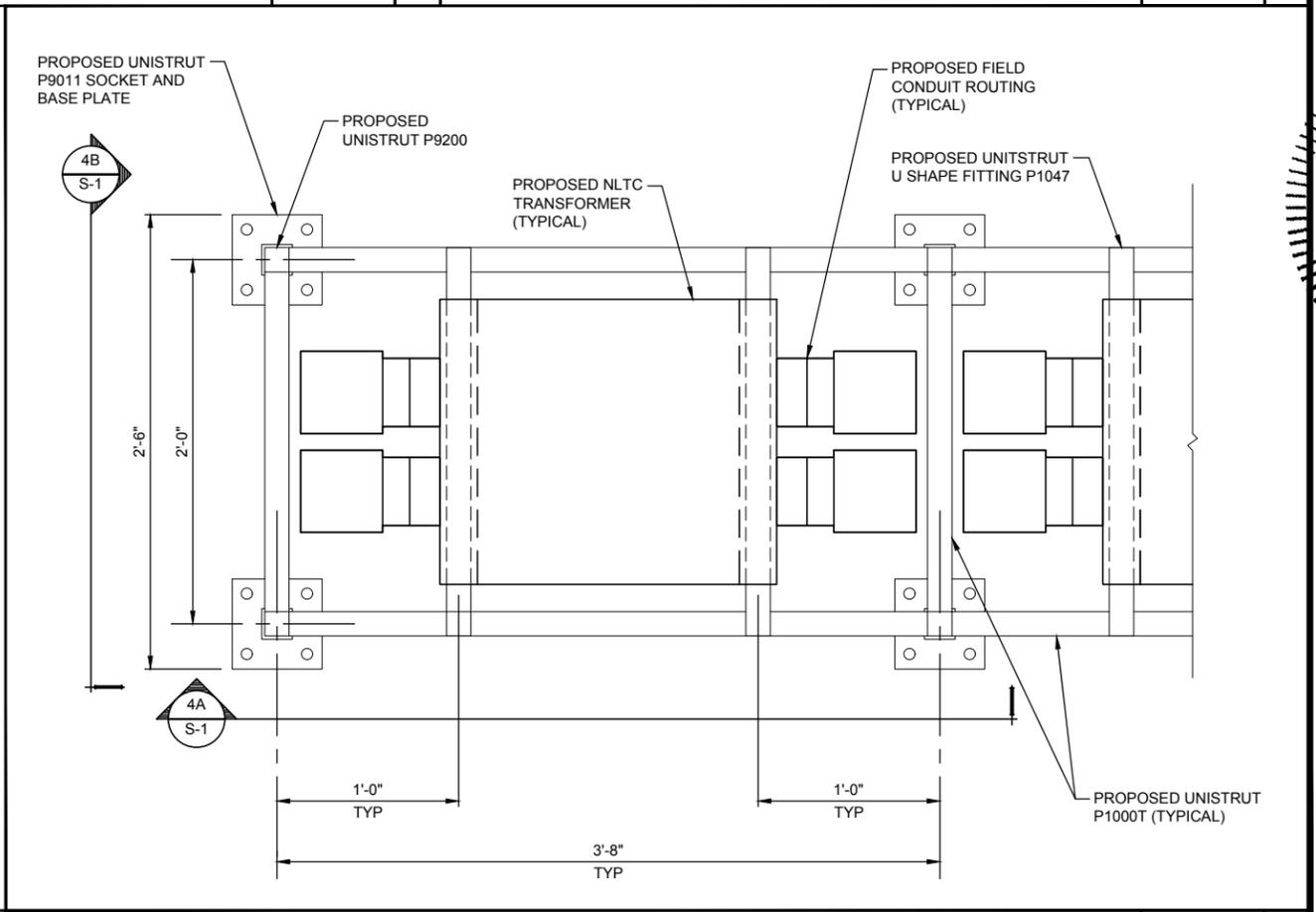
SIDE VIEW - DETAIL 4B

NOTE:
ALL UNISTRUT PIECES SHALL BE HOT-DIPPER GALVANIZED (HG) PER ASTM A123.

UNISTRUT FRAME MOUNTED NLTC TRANSFORMERS - TYPICAL SIDE VIEW

N.T.S

4



UNISTRUT FRAME MOUNTED NLTC TRANSFORMERS - PLAN VIEW

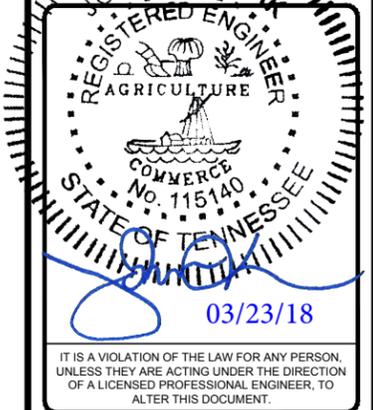
N.T.S

2



GPD PROJECT NUMBER:	2017241.63
DRAWN BY:	KSB
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	SHAWN GLEASON

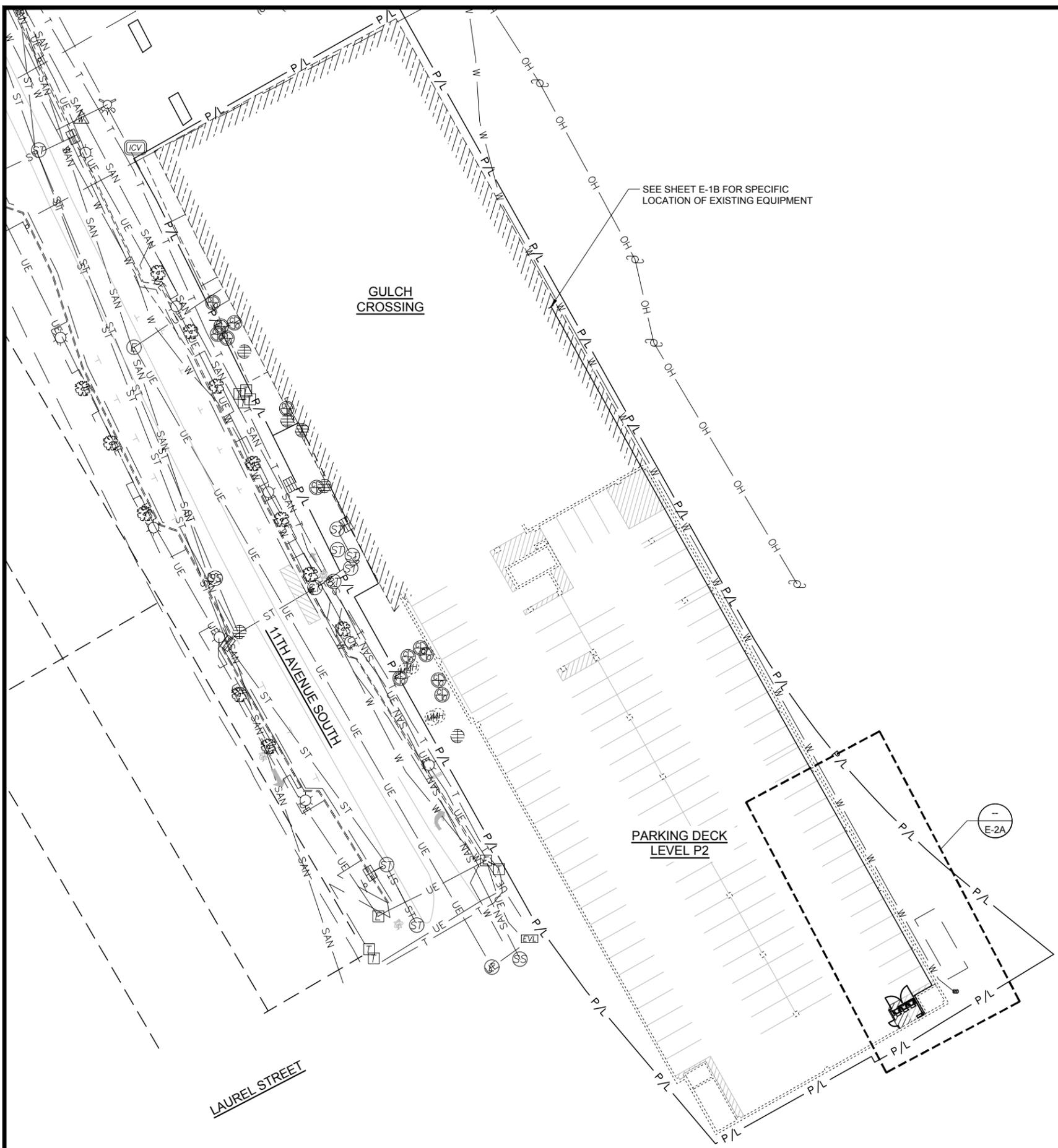
B	03/22/18	ISSUED FOR REVIEW
A	03/18/18	ISSUED FOR REVIEW
REV	DATE	DESCRIPTION



1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

NLTC TRANSFORMER
DETAILS

SHEET NUMBER
S-1



GENERAL SHEET NOTES

1. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
2. ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN DETAILS ON SHEET E-5, AS WELL AS MAINTAIN A MINIMUM OF 18" CLEAR OF ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.

3600 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-6000

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

GPD PROJECT NUMBER:	2017241.63
DRAWN BY:	KSB
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	SHAWN GLEASON

REV	DATE	DESCRIPTION
B	03/22/18	SIGNED AND SEALED
A	03/18/18	ISSUE FOR PERMIT

REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116476
STATE OF TENNESSEE
03/23/18

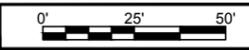
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
EXISTING OVERALL
UTILITY PLAN - LEVEL P2

SHEET NUMBER
E-1A

EXISTING OVERALL UTILITY PLAN - LEVEL P2



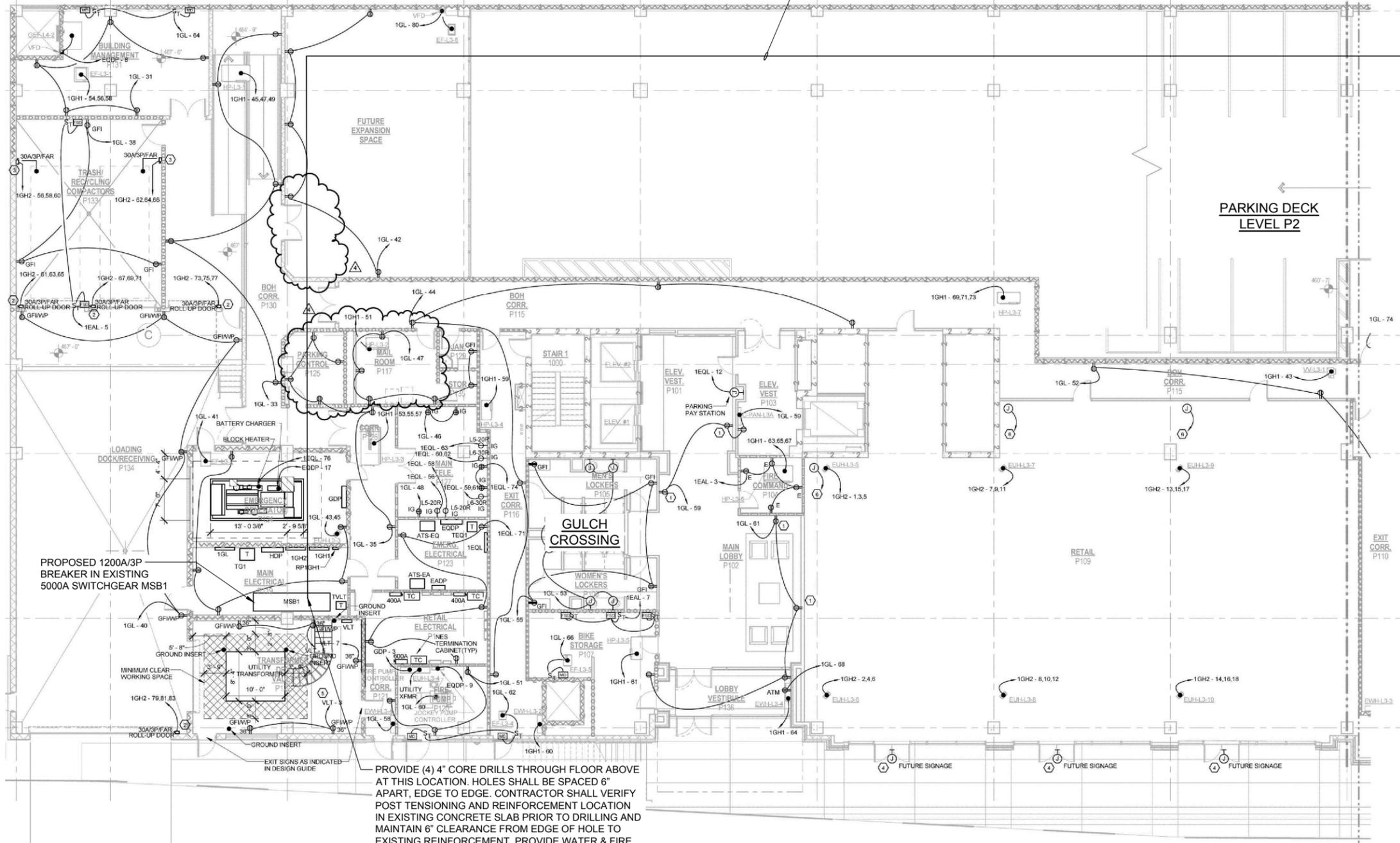
SCALE: 1"=50'

NOTE:
ALL ITEMS THIS DRAWINGS ARE EXISTING, EXCEPT "NEW" OR "PROPOSED" ITEMS.

PROPOSED FEEDER CONDUITS AND CONDUCTORS TO BE ROUTED ALONG CEILING OF P2 LEVEL. CONTRACTOR TO COORDINATE EXACT ROUTE WITH BUILDING OWNERS. CONNECT TO PROPOSED 1200A BREAKER IN EXISTING BUILDING SWITCHGEAR LOCATED IN MAIN ELECTRICAL ROOM P119.

2
E-5 1

SEE SHEET E-1A FOR SPECIFIC LOCATION WITHIN PARKING GARAGE



PROPOSED 1200A/3P BREAKER IN EXISTING 5000A SWITCHGEAR MSB1

PROVIDE (4) 4" CORE DRILLS THROUGH FLOOR ABOVE AT THIS LOCATION. HOLES SHALL BE SPACED 6" APART, EDGE TO EDGE. CONTRACTOR SHALL VERIFY POST TENSIONING AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB PRIOR TO DRILLING AND MAINTAIN 6" CLEARANCE FROM EDGE OF HOLE TO EXISTING REINFORCEMENT. PROVIDE WATER & FIRE SEALANT AFTER CONDUITS HAVE BEEN INSTALLED.



3500 DEER CREEK RD
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(650) 681-5000



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A	03/16/18	ISSUED FOR 100% REVIEW

REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
NO. 116476
STATE OF TENNESSEE

[Signature]

03/23/18

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1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
EXISTING OVERALL
UTILITY PLAN - LEVEL P1

SHEET NUMBER
E-1B



UTILITY SERVICE LATERAL LENGTHS (FEET)		
EXISTING SWITCHGEAR TO PROPOSED DISTRIBUTION PANEL	LF	*EST*
	600	622
TOTAL LENGTH OF Cu WIRE PER CONDUIT=		2488
NUMBER OF WIRE FILLED CONDUIT=		4
TOTAL LENGTH OF Cu WIRE=		9952

* AC UTILITY SERVICE CONDUCTORS:
22 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL RUN.

GENERAL SHEET NOTES

- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR SHALL ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
- DC RUN LENGTH BETWEEN 160'-0" AND 270'-0" SHALL INCLUDE (1) ONE EXTRA CONDUIT IN ORDER TO RUN RG-6 CABLE FOR THE PILOT SIGNAL. ANY DC RUN LENGTHS BEYOND 270'-0" ARE NOT FEASIBLE.
- "# " DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE.
-
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
- CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- CONTRACTOR SHALL INSTALL PULL BOXES INSIDE PARKING GARAGE AS REQUIRED.
- CONTRACTOR SHALL MAINTAIN MINIMUM HEAD ROOM IN PARKING GARAGE AS REQUIRED BY GARAGE OWNER FOR ALL NEW CONSTRUCTION.
- CONTRACTOR SHALL USE GROUND PENETRATING RADAR TO LOCATE ALL STEEL TENSION WIRES AND REBAR IN CONCRETE BEFORE DRILLING.
- CONTRACTOR SHALL PROVIDE WATER TIGHT & FIRE TIGHT FITTINGS IN ALL PENETRATIONS.
- CONTRACTOR SHALL COORDINATE ALL BUILDING OUTAGES WITH BUILDING OWNER.

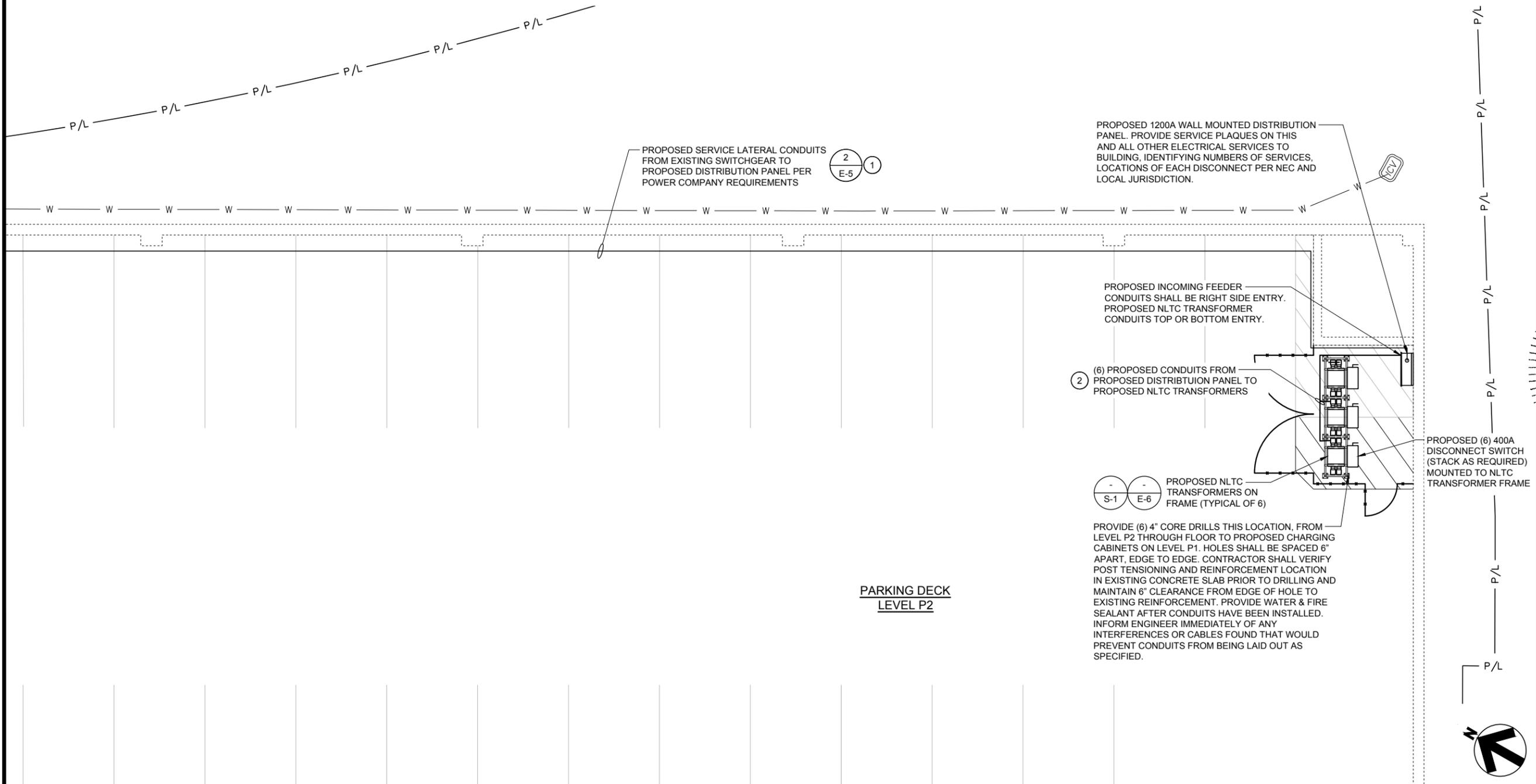


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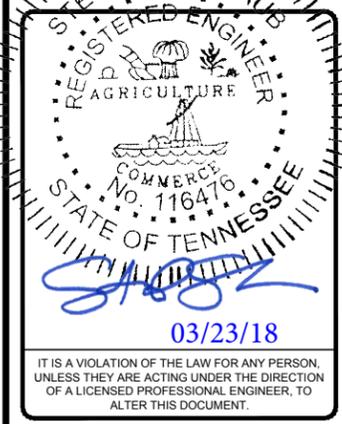


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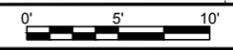
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1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
ELECTRICAL EQUIPMENT
PLAN - LEVEL P2

SHEET NUMBER
E-2A



DC CHARGING POST LENGTHS (FEET)			
CABINET	POST	LF	***EST***
1	1A	25	47
	1B	34	56
2	2A	65	87
	2B	57	79
3	3A	65	87
	3B	74	96
4	4A	81	103
	4B	89	111
5	5A	96	118
	5B	141	163
6	6A	131	153
	6B	122	144
TOTAL LENGTH OF DC WIRE=			2488
TOTAL LENGTH OF GND Cu & COMM CABLE WIRE=			1244

AC CHARGING CABINET LENGTHS (FEET)			
SWITCHGEAR	CABINET	LF	**EST**
CIRCUIT 1	1	10	26
CIRCUIT 2	2	10	26
CIRCUIT 3	3	10	26
CIRCUIT 4	4	10	26
CIRCUIT 5	5	10	26
CIRCUIT 6	6	10	26
TOTAL LENGTH OF Cu WIRE=			624
TOTAL LENGTH OF GND Cu WIRE=			156

SEE SHEET E-3 FOR FEEDER SCHEDULE
TOTAL LENGTH OF AC WIRE =
SUM OF EST LENGTH x
4 WIRES PER CABINET
TOTAL LENGTH OF GND Cu =
SUM OF EST LENGTHS

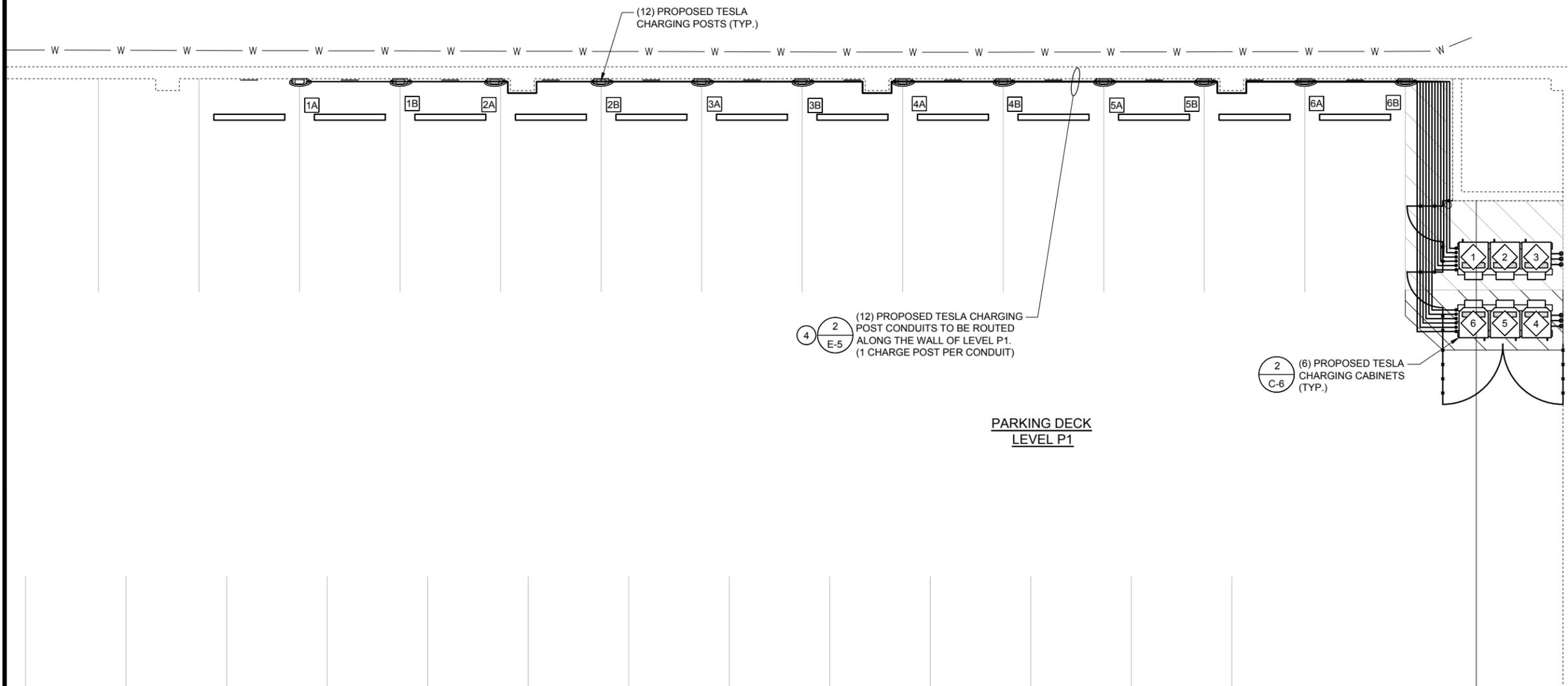
SEE SHEET E-3 FOR FEEDER SCHEDULE
TOTAL LENGTH OF DC WIRE =
SUM OF EST LENGTH x
2 WIRES PER CHARGE POST
TOTAL LENGTH OF GND Cu
& COMM CABLE WIRES =
SUM OF EST LENGTHS

GENERAL SHEET NOTES

- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR SHALL ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
- DC RUN LENGTH BETWEEN 160'-0" AND 270'-0" SHALL INCLUDE (1) ONE EXTRA CONDUIT IN ORDER TO RUN RG-6 CABLE FOR THE PILOT SIGNAL. ANY DC RUN LENGTHS BEYOND 270'-0" ARE NOT FEASIBLE.
- "# " DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE.
-
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
- CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- CONTRACTOR SHALL INSTALL PULL BOXES INSIDE PARKING GARAGE AS REQUIRED.
- CONTRACTOR SHALL MAINTAIN MINIMUM HEAD ROOM IN PARKING GARAGE AS REQUIRED BY GARAGE OWNER FOR ALL NEW CONSTRUCTION.
- CONTRACTOR SHALL USE GROUND PENETRATING RADAR TO LOCATE ALL STEEL TENSION WIRES AND REBAR IN CONCRETE BEFORE DRILLING.
- CONTRACTOR SHALL PROVIDE WATER TIGHT & FIRE TIGHT FITTINGS IN ALL PENETRATIONS.
- CONTRACTOR SHALL COORDINATE ALL BUILDING OUTAGES WITH BUILDING OWNER.

NOTE:

PROPOSED TESLA EQUIPMENT BASE ELEVATIONS ARE BASED ON BUILDING OWNER RECOMMENDATIONS DUE TO INTERMITTENT FLOODING (8" MAX) IN LEVEL P1 OF PARKING GARAGE.



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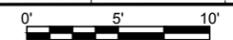
REV	DATE	DESCRIPTION
B	03/23/18	SIGNED AND SEALED
A	12/16/18	ISSUED FOR 100% REVIEW



1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
ELECTRICAL EQUIPMENT
PLAN - LEVEL P1

SHEET NUMBER
E-2B



GENERAL SHEET NOTES

- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED IN SWITCHGEAR. PROPOSED METER SHALL BE MOUNTED IN SWITCHGEAR.
- SEE SHEET E-4 FOR PANEL SCHEDULES.
- ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR.
- ALL BUSHINGS AND INTERNAL WIRING OF PROPOSED SERVICE EQUIPMENT PROVIDED BY MANUFACTURER. ANY MODIFICATIONS SHALL REQUIRE ENGINEERING APPROVAL PRIOR TO ANY CHANGES BEING MADE.
- VERIFY AVAILABLE FAULT CURRENT AT THE SECONDARY OF THE UTILITY TRANSFORMER WITH THE POWER COMPANY. CONDUCT A FAULT CURRENT ANALYSIS TO DETERMINE THE INTERRUPTING CAPACITY (AIC RATING) OF THE ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL PERFORM ARC FLASH CALCULATIONS AS REQUIRED IN THE FOLLOWING: NFPA 70; NFPA 70E; OSHA 29; AND IEEE STANDARDS 1584. CONTRACTOR SHALL OBTAIN ALL NECESSARY INFORMATION FROM POWER COMPANY TO CALCULATE FLASH PROTECTION BOUNDARIES, INCIDENT ENERGY LEVELS, AND SHALL DETERMINE MINIMUM PPE REQUIREMENTS FOR COMPLETING THE WARNING LABELS. PROVIDE WARNING LABELS CONTAINING ALL THE LATEST INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS
- ALL ALUMINUM (AI) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- ALL CONDUITS ACCESSIBLE TO THE GENERAL PUBLIC OR WHICH CONDUITS CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- THE CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
 - IEC 61851-23 : 2014 / EN 61851 -23: 2014
 - UL 2202: 2009 (R2012)
 - CAN CSA C22.2 NO. 107.1-01 (R2011)
- THE AFOREMENTIONED STANDARDS IDENTIFY THE REQUIREMENTS MET BY THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO :
 - PROTECTION AGAINST ELECTRIC SHOCK
 - OVERLOAD AND SHORT CIRCUIT PROTECTION
 - FAULT PROTECTION
 - DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS LIVE PARTS
 - THE INTERNAL COMPONENTS OF THE SYSTEM ARE PROPRIETARY. ANY QUESTIONS CONCERNING ACTUAL INTERNAL PROTECTIVE DEVICES MUST BE COORDINATED DIRECTLY WITH TESLA.
- DC RUN LENGTHS BETWEEN 160' AND 270' SHALL INCLUDE (1) RG-6 CABLE FOR THE PILOT SIGNAL IN THE DC RACEWAYS. ANY DC RUN LENGTHS BEYOND 270' IS NOT CONSTRUCTIBLE.

NOTE:
BUILDING OWNER ELECTRICAL ENGINEER HAS CONFIRMED THAT EXISTING SWITCHGEAR AND ASSOCIATED FEEDERS WILL NOT BE OVERLOADED FROM THE ADDITION OF THE PROPOSED LOADING.

LOAD SUMMARY TABLE		
EXISTING 5000A SWITCHGEAR MAXIMUM 12 MONTH DEMAND LOAD	1512.33KW	1819.05A
PROPOSED ADDITIONAL TESLA LOAD	960.00KW	1155.00A
PROPOSED NEW TOTAL LOAD (EX. LOAD x 1.25) + NEW LOAD	2850.41KW	3428.81A

BREAKER TRIP SETTINGS:

MAIN ELECTRICAL ROOM BREAKER 'NGC':

- LR = H
- TR = 24
- LSD = 3
- TSD = 120ms
- LI = 12

- GROUND SETTINGS:

- LG = 0.6
- TG = 120ms

MAIN SWITCHGEAR BREAKER 'NGC':

- LR = H
- TR = 2
- LSD = 2
- TSD = INST
- LI = 6

- GROUND SETTINGS:

- LG = 0.2
- TG = INST

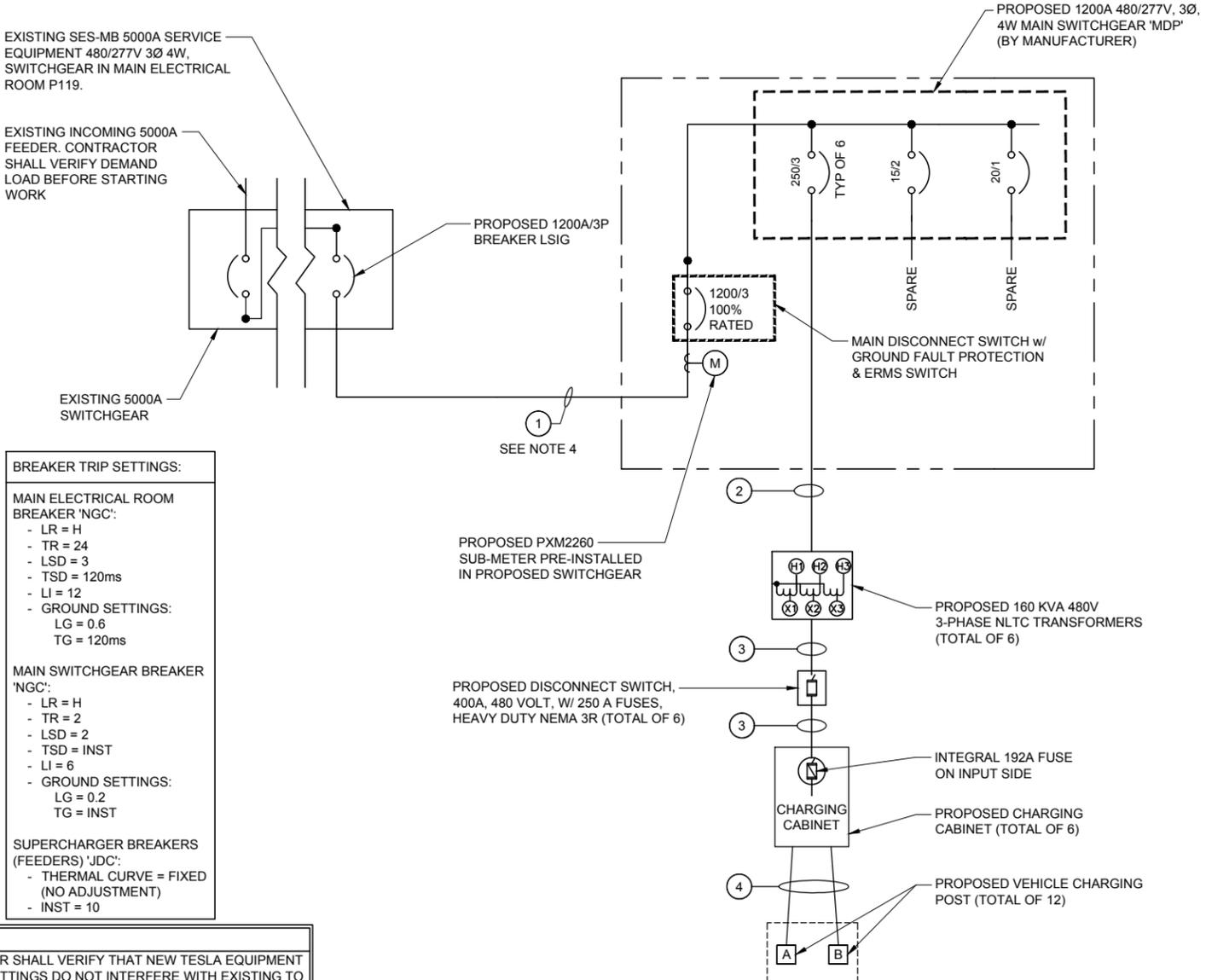
SUPERCHARGER BREAKERS (FEEDERS) 'JDC':

- THERMAL CURVE = FIXED (NO ADJUSTMENT)
- INST = 10

NOTE:
CONTRACTOR SHALL VERIFY THAT NEW TESLA EQUIPMENT BREAKER SETTINGS DO NOT INTERFERE WITH EXISTING TO REMAIN BREAKERS AND COORDINATION(S). VERIFY WITH OWNER PRIOR TO ENERGIZATION AND NOTIFY ENGINEER IMMEDIATELY OF ANY SETTINGS CONFLICT.

FEEDER/CIRCUIT SCHEDULE

NO	FROM	TO	CONFIGURATION
①	PROPOSED 1200A/3P BREAKER IN EXISTING 5000A SWITCHGEAR	PROPOSED 1200A SWITCHGEAR	(3) 400 MCM Cu (XHHW-2, 90°C) (1) 400 MCM Cu NEUT (XHHW-2, 90°C) (1) #3/0 MCM Cu GND (XHHW-2, 90°C) IN EACH (4) 4" RGS CONDUITS
②	PROPOSED 1200A SWITCHGEAR	PROPOSED TESLA NLTC TRANSFORMERS 1-6	(3) 350 MCM AI (THWN-2) (1) 350 MCM AI NEUT (THWN-2) (1) #4 AWG Cu GND IN 3" RGS CONDUIT.
③	PROPOSED TESLA NLTC TRANSFORMERS 1-6 (THRU DISCONNECT SWITCHES)	PROPOSED TESLA CHARGING CABINETS 1-6	(3) 350 MCM AI (THWN-2) (1) 350 MCM AI NEUT (THWN-2) (1) #4 AWG Cu GND IN 3" RGS CONDUIT.
④	PROPOSED TESLA CHARGING CABINETS 1-6	PROPOSED TESLA CHARGING POSTS 1-12	(2) 3/0 MCM Cu (THWN-2) (1) #6 AWG Cu GND (1) 600V COMM CABLE IN 2" RGS CONDUIT.



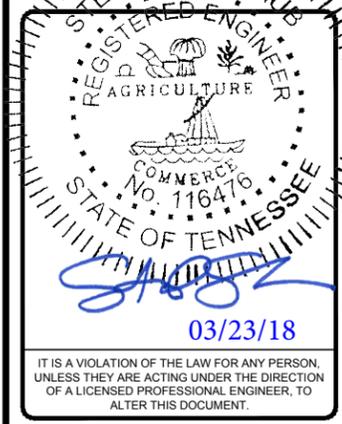
3500 DEER CREEK RD
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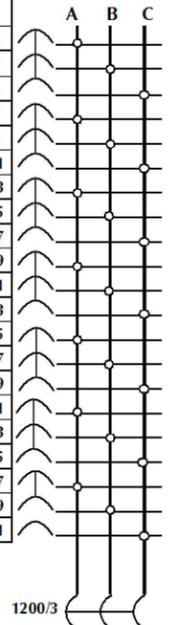
1033 DEMONBREUM STREET
(TESLA STATION)
NASHVILLE, TN 37203

SHEET TITLE
SYSTEM ONE-LINE
DIAGRAM

SHEET NUMBER
E-3

DISTRIBUTION PANEL

DESCRIPTION	Phase A KW	Phase B KW	Phase C KW	CKT. BKR / Poles		Phase A KW	Phase B KW	Phase C KW	DESCRIPTION
CHARGING CABINET #1	53.33			250/3	1				SPACE
		53.33			3				
			53.33		5				
CHARGING CABINET #2	53.33			250/3	7				SPACE
		53.33			9				
			53.33		11				
CHARGING CABINET #3	53.33			250/3	13				SPACE
		53.33			15				
			53.33		17				
CHARGING CABINET #4	53.33			250/3	19				SPACE
		53.33			21				
			53.33		23				
CHARGING CABINET #5	53.33			250/3	25				SPACE
		53.33			27				
			53.33		29				
CHARGING CABINET #6	53.33			250/3	31				SPACE
		53.33			33				
			53.33		35				
SPARE	0.00			15/2	37				SPACE
SPARE		0.00		20/1	39				
					41				
					42				



CONNECTED	Phase A KW	Phase B KW	Phase C KW
KW	319.98	319.98	319.98
AMPS	1155.16	1155.16	1155.16
TOTAL KW	959.94		
TOTAL AMPS	1154.63		

TO EXISTING 5000A SWITCHGEAR

VOLTAGE 480 Y/ 277 PHASE 3 No OF WIRES 4 NEMA 3R ENCLOSURE

MAIN C/B 3 POLES LUGS BUS 1200 AMPS 100 KAIC

SERVICE ENTRANCE RATED SPD ISOLATED GROUNDED BUS SURFACE

200% RATED NEUTRAL FULLY RATED FLUSH

* BASED OFF TESLA SUPERCHARGER LOAD PROFILE	
PANEL SCHEDULE 'MDP'	
N.T.S	1

PANEL BOARD NOTES

- PANELS ARE LOCATED WITHIN PROPOSED SERVICE EQUIPMENT AND IS PROVIDED AND INSTALLED BY MANUFACTURER.
- PROVIDE EQUIPMENT WITH SUFFICIENT INTERRUPTING CAPACITY (AIC) REQUIRED FOR A SAFE INSTALLATION. AIC RATING NOTED ON EACH PANELBOARD SCHEDULE IS MINIMUM RATING ACCEPTED WITHOUT ADDITIONAL DOCUMENTATION THAT INDICATES DIFFERENTLY.
- CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH SERVICE EQUIPMENT.



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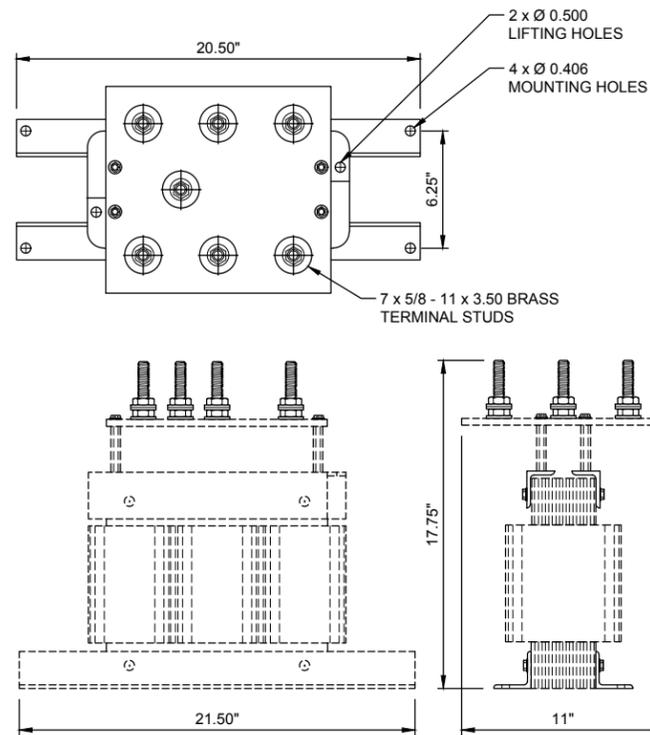
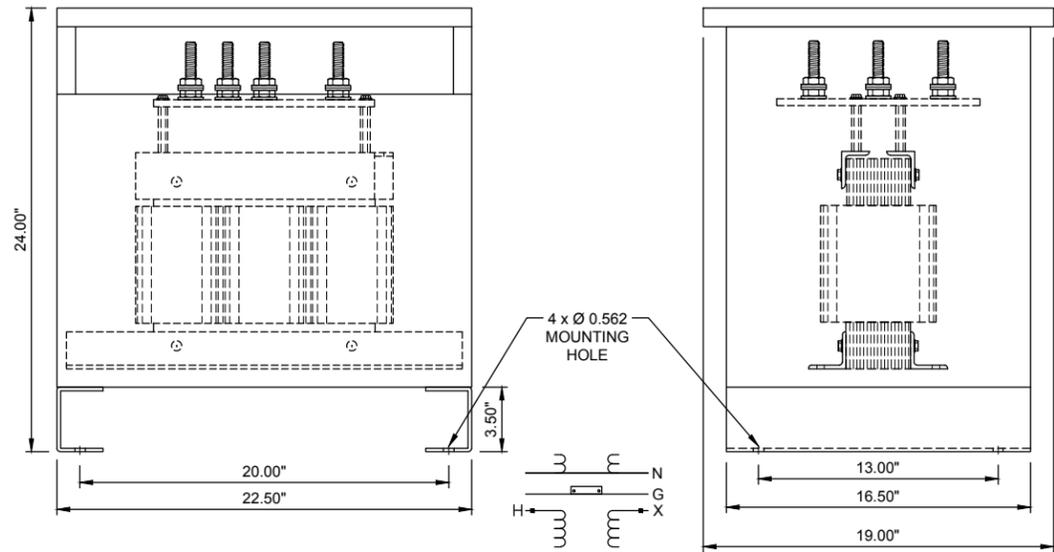
1033 DEMONBREUM STREET
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NASHVILLE, TN 37203

SHEET TITLE
PANEL SCHEDULES

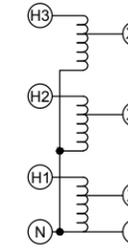
SHEET NUMBER
E-4

MANUFACTURER: QUALITY TRANSFORMER AND ELECTRONICS, INC.
 DESCRIPTION: 160 kVA STAND ALONE NLTC-TRANSFORMERS
 THREE-PHASE, 50/60 Hz
 INPUT= 456 TO 504 VRMS
 OUTPUT= 480 VRMS @ 192 ARMS
 ENCLOSURE: NEMA 3R

THE LISTED TRANSFORMER IS MARKED UNDER THE FOLLOWING
 LICENSE NUMBERS:
 CE NRTL TO UL
 EN 60076-1 - T72140712 1561-CU 72140835
 EN 61558-1 - T72140712



- 1.0 - ELECTRICAL:
 1.1 - RATED POWER = 160 kVA
 1.2 - NUMBER OF PHASES = THREE
 1.3 - FREQUENCY = 50/60 Hz
 1.4 - ELECTRIC WITHSTANDING VOLTAGE = 4.0 kVrn
 1.5 - SCHEDULE DIAGRAM:



- 2.0 - MECHANICAL:
 2.1 - ESTIMATED WEIGHT = 200 LBS
 2.2 TRANSFORMER SHALL BE VACUUM IMPREGNATED IN PROXY RESIN AND BAKED AFTER ASSEMBLY.
 2.3 - FINISH
 2.3.1 - NLTC-TRANSFORMER - BLACK PAINT
 2.3.2 - ENCLOSURE - ANSI #61 GRAY PAINT
 2.4 - MARKING
 2.4.1 - TERMINAL DESIGNATIONS IN WHITE PER 9852-800
 2.4.2 - ENCLOSURE SILKSCREEN PER 9852-850
 3.0 - ADDITIONAL:
 3.1 - SUGGESTED SOURCE OF SUPPLY:
 QUALITY TRANSFORMER AND ELECTRONICS
 P/N 9852
 3.2 - TRANSFORMER SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH TUV RHEINLAN LICENSE NUMBER US 7214071102
 3.3 - NRTL LISTED TO UL 1561

NLTC TRANSFORMER DIMENSIONS

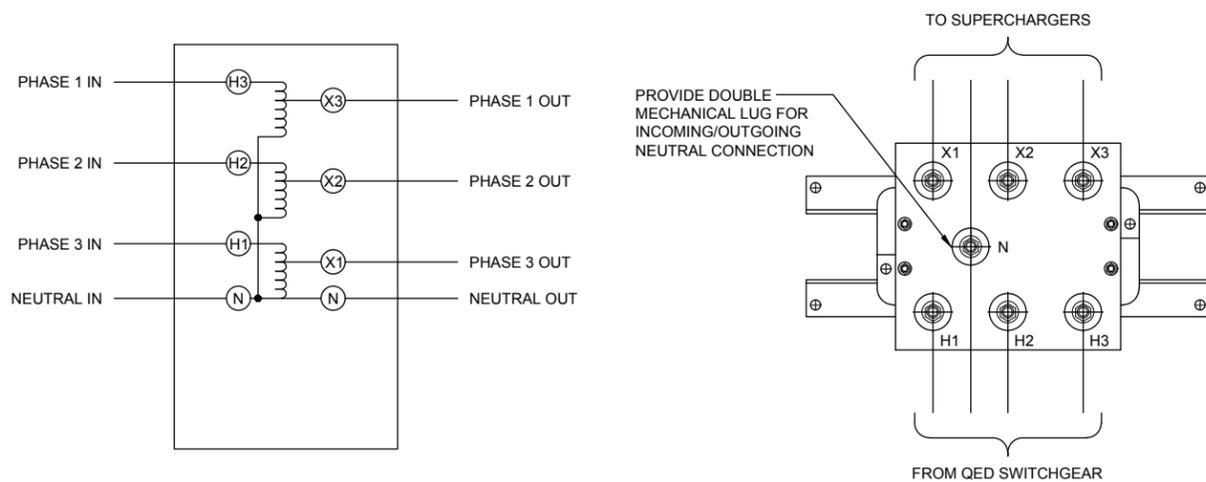
N.T.S

3

160 kVA NLTC TRANSFORMER SPECIFICATIONS

N.T.S

1



CONNECTION DIAGRAM FOR NLTC TRANSFORMERS

N.T.S

4

DETAIL NOT USED

N.T.S

2



3600 DEER CREEK RD
 PALO ALTO, CA 94304
 (650) 681-5000



520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax: 330.572.2102

GPD PROJECT NUMBER:	2017241.63
DRAWN BY:	KSB
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	SHAWN GLEASON

REV	DATE	DESCRIPTION
B	03.22.18	SIGNED AND SEALED
A	02.16.18	ISSUED FOR 100% REVIEW

FOR REFERENCE ONLY

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

1033 DEMONBREUM STREET
 (TESLA STATION)
 NASHVILLE, TN 37203

NLTC TRANSFORMER
 DETAILS

SHEET NUMBER

E-6

