

November 15, 2024

City of Portsmouth, NH Planning Department 1 Junkins Ave., 3rd Floor Portsmouth, NH 03801

> RE: Application for Conditional Use Permit for EV Charging Level B EV Charging Station in existing Whole Foods Parking Lot Address: 1600 Woodbury Ave.

To Whom It May Concern,

Please accept this letter as a narrative describing the proposed application and how it addresses the approval criteria in Section 10.243 of the Zoning Ordinance for Conditional Use Permits.

AGI proposes to install new EV charging equipment in the existing Whole Foods parking lot at 1600 Woodbury Ave. The property is owned by Durgin Square, LLC, and it is zoned G1 – Gateway Neighborhood Mixed Use Corridor. Adding the availability of EV charging to this area will be in keeping with the intent of the G1 zoning district to facilitate a high-quality pedestrian environment.

Being installed are (6) dual L3 EV Charging dispensers for a total of (12) EV charging stalls. Also proposed are (3) 16.5'x5' canopy structures to provide coverage for the dispensers. The supporting equipment will consist of (1) switchboard, (1) CT cabinet with meter socket, (1) utility rack, and (1) new transformer (by Utility).

The following addresses the approval criteria in Section 10.243 of the Zoning Ordinance:

10.243.21 The proposed EV charging equipment will be compatible with the existing site's surroundings, as well as the adjacent and nearby properties. The proposed use will be an accessory to the existing principal use of the parking lot and surrounding commercial retail business. The availability of EV charging in this location will complement and enhance the character of surrounding development.

10.243.22 New electric service is being installed by the Utility to serve the proposed EV charging equipment.

10.243.23 The existing site and surrounding streets will maintain adequate vehicular and pedestrian infrastructure to serve the proposed use consistent with the City's Master Plan.

10.243.24 The proposed EV charging station will not have significant adverse impacts on abutting and surrounding properties. There will not be any additional traffic, noise, odors, vibrations, dust, or fumes due to the proposed use. There will be

lighting added, but it will have minimal impacts on surrounding properties. A photometric plan has been completed and submitted with the plans.

10.243.25 The proposed EV charging station will not have significant adverse impacts on any natural or scenic resources surrounding the site.

10.243.26 The proposed EV charging station will not cause or contribute to a significant decline in property values of adjacent properties.

I respectfully request the Planning Board to approve this Conditional Use Permit based on the criteria above and the demonstrated benefits to the community. Please contact me if you have any questions or concerns.

Thank you,

Emily Roseberry Permitting Coordinator SSC, Inc. 7171 W. 95th Street, Suite 600 Overland Park, KS 66212 O: 913-438-7700 ext. 2272 eroseberry@ssc.us.com



- INSTALL (2) EV SIGNAGE
- INSTALL (12) WHEELSTOPS

APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUTH)

PROJECT: CHARGING STATION ADDITION

DRAWING DESCRIPTION: FINAL CD100

SITE IN	FORMATION	CONSULTING TEAM		DRAV
RESS:	1600 WOODBURY AVE PORTSMOUTH, NH 03801	ENGINEERING: SSC, INC. 7171 WEST 05TH STREET, SLUTE 600	SHEET NO.	SE
17 11 7		OVERLAND PARK, KANSAS 66212 PHONE: (013) 438 7700	T-1.0	TITLE SHEET
NIY:	ROCKINGHAM	FAX: (913) 438-7777		SURVEY (BY OTHERS)
Y OWNER: RMATION: TUDE: JITUDE: JND ELEV: <u>UND ELEV:</u>	DURGIN SQUARE, LLC. CLIFFORD LONG 1600 WOODBURY AVE. PORTSMOUTH, NH 03801 (617) 462-1200 43° 05' 23.05" N (NAD 83) 70° 47' 33.07" W (NAD 83) 63.0' AMSL AGI 5514 RIO VISTA DRIVE CLEARWATER, FL 33760 (800) 877-7868 ex. 4520 UNITIL 08178-0238-0016-0000	SURVEY: ODONE SURVEY & MAPPING 291 MAIN STREET, SUITE 5 NORTHBOROUGH, MA 01532 PHONE: (508) 351-6022 FAX: (508) 351-6633 STRUCTURAL ARCHITECTURAL GRAPHICS INC. 2655 INTERNATIONAL PARKWAY VIRGINIA BEACH, VIRGINIA 23452 PHONE: (615) 329-1300 LIGHTING: AGI, INC. 514 RIO VISTA DRIVE CLEARWATER, FLORIDA 33760 PHONE: (800) 877-7868, ex. 4520	C-1.0 C-1.1 C-1.2 C-1.3 C-1.4 C-2.0 C-2.1 C-3.0 C-3.1 C-3.2 E-1.0 E-1.1 E-2.0 E-2.1 E-2.0 E-2.1 E-3.0 E-3.0 G-1.0 SP-1.0	OVERALL SITE & ZON EXISTING SITE PLAN ENLARGED SITE PLAN OPEN SPACE & VEGET EROSION CONTROL PI FOUNDATION PLANS (FOUNDATION PLANS (EQUIPMENT DETAILS EQUIPMENT DETAILS EQUIPMENT DETAILS EQUIPMENT DETAILS EQUIPMENT DETAILS ELECTRICAL ONE-LIN PANEL SCHEDULE ELECTRICAL DETAILS ELECTRICAL DETAILS ELECTRICAL DETAILS
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	STAMP:					
	NEW HAND NEW HAND NEW HAND SHELTON DOUGLAS KEISLING No. 18260 CENSED CON					
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 0119 ENGINEER: PE#: DIS SDK SHELTON D. KEISLING 18260 ELE TMS TERRANCE M. SUPER 10926 ELE	91 SCIPLINE: ECTRICAL E ECTRICAL E				
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	APPLICANT SITE NAME:	SMOUTH)				
	APPLICANT SITE NUMBER: AGI-INA-NH-0001					
	1600 WOODBURY PORTSMOUTH, NH	′ AVE 1 03801 ■SHEET #:				
	TITLE SHEET	T-1.0				

GENERAL NOTES

1. CURRENT OWNER OF RECORD: DSQ HOLDING LLC DEED REFERENCE: BOOK 4894, PAGE 2646. PLAN REFERENCE: (D-32485)

SITE ADDRESS: 1600-1618 WOODBURY AVE, PORTSMOUTH, NH (ROCKINGHAM COUNTY

ASSESSORS PARCEL: MAP 238 LOT 16 & MAP 239 LOT 2

- 2. THIS PLAN IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY ODONE SURVEY & MAPPING ON APRIL 15-17, 2014. THIS PLAN HAS BEEN PREPARED FOR TITLE PURPOSES ONLY. SURVEY BY TRIMBLE S6 TOTAL STATION
- 3. ALL FIELD MEASUREMENTS MATCHED RECORDED DIMENSIONS WITHIN THE PRECISION REQUIREMENTS OF ALTA/ACSM SPECIFICATIONS UNLESS OTHERWISE SHOWN.
- 4. AS OF APRIL 17, 2014 NO RECENT EARTHWORK OR BUILDING CONSTRUCTION WAS OBSERVED ON THE SUBJECT PREMISES, NO RECENT CHANGES IN STREET RIGHT-OF-WAY LINES WAS OBSERVED OR PROPOSED TO BE ALTERED, NO EVIDENCE WAS OBSERVED THAT THE SUBJECT PREMISES WERE BEING USED AS A SOLID WASTE DUMP OR SANITARY LANDFILL, AND NO EVIDENCE WAS OBSERVED OF CEMETERIES LOCATED ON THE SUBJECT PREMISES.
- 5. UTILITY NOTE: LOCATION OF UTILITIES SHOWN HEREON WERE DETERMINED BY OBSERVATION OF ABOVE GROUND EVIDENCE. PUBLIC UTILITIES: GAS, ELECTRIC, SEWER, TELEPHONE AND WATER ACCESS THE PROPERTY VIA A PUBLIC RIGHT-OF-WAY OR EASEMENT LEADING TO A PUBLIC RIGHT-OF-WAY.
- 6. PROPERTY HAS DIRECT ACCESS TO ARTHUR BRADY DRIVE AND DURGIN LANE AS SHOWN AND INDIRECT ACCESS TO WOODBURY AVENUE THROUGH ACCESS EASEMENT AS NOTED.
- 7. NO EVIDENCE OF A STREET NUMBER LISTED ON THE BUILDINGS.
- 8. PLAN REFERENCES: (ROCKINGHAM COUNTY REGISTRY OF DEEDS) D-32485, D-21957 AND D-22028

ZONING INFORMATION

LISTED BELOW ARE SETBACK, HEIGHT, AND FLOOR SPACE AREA RESTRICTIONS AS DISCLOSED BY APPLICABLE ZONING OR BUILDING CODES (BEYOND THOSE REQUIRED UNDER PARAGRAPH 5d OF THE ALTA STANDARDS) UNLESS "NONE" IS STATED BELOW.

ZONING CLASSIFICATION: GENERAL BUSINESS (GB) PROVIDED FROM THE CITY OF PORTSMOUTH ZONING ORDINANCE

		REQUIRED
		REQUIRED
MINIMUM LOT AREA		43,560 SQ. FT.
MINIMUM FRONTAGE		200 FT.
MAX. LOT COVERAGE		30%
MINIMUM OPEN SPACE		20%
MINIMUM SETBACKS:	FRONT SIDE REAR	30 FT. 30 FT. 50 FT.
MAXIMUM BUILDING HEIG	ΗT	60 FT.
PARKING REQUIREMENT:	(NON-RE	SIDENTIAL USES)

MINIMUM: 1 SPACE PER 350 SQUARE FEET OF GROSS FLOOR AREA MAXIMUM: 1 SPACE PER 250 SQUARE FEET OF GROSS FLOOR AREA.

PARKING TABLE	NO. OF SPACES
REGULAR PARKING HANDICAP PARKING	538 25
TOTAL PARKING SPACES	563

ITEMS CORRESPONDING TO SCHEDULE B

EXCEPTIONS FROM COVERAGE, SCHEDULE B, COMMITMENT FOR TITLE INSURANCE COMMITMENT NO. 14-0093KC-FN (NH) OF FIDELITY NATIONAL TITLE INSURANCE COMPANY, BEARING AN EFFECTIVE DATE OF APRIL 2, 2014.

- NOTE: EXCEPTION ITEMS NOT LISTED BELOW ARE STANDARD TITLE EXCEPTIONS AND/OR ARE NOT MATTERS OR ISSUES THAT PERTAIN TO THIS SURVEY.
- RIGHTS AND EASEMENTS SET FORTH IN SEWER EASEMENT TO THE UNITED STATES OF AMERICA SET FORTH IN JUDGMENT (CIVIL ACTION NO. 1353) RECORDED IN BOOK 1311, PAGE 322. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 8. EASEMENT FROM VASILIOS ALEXANDROPULOS AND ANGELOS KOSTROLES TO NEW HAMPSHIRE ELECTRIC COMPANY AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY DATED NOVEMBER 14, 1952, RECORDED IN BOOK 1267, PAGE 326. NOTE: THE COMPANY INSURES THAT THE ABOVE-REFERENCED EASEMENT MAY BE EXERCISED ONLY IN THE AREA OF THE EASEMENT TO THE UNITED STATES OF AMERICA REFERRED TO IN ITEM 10 BELOW. (EASEMENT IS BLANKET COVERAGE AND CANNOT BE PLOTTED)
- 9. EASEMENT FROM EDWARD N. EAMES TO NORTHERN NEW ENGLAND CARPENTERS' PENSION FUND DATED JULY 27, 1984, RECORDED AUGUST 28, 1984, IN BOOK 2508, PAGE 863. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 10. EASEMENT TO THE UNITED STATES OF AMERICA FOR CONSTRUCTING AND MAINTAINING WIRES FOR TRANSMISSION OF POWER, RECORDED IN BOOK 1263, PAGE 201; BOOK 1337, PAGE 277; BOOK 1340, PAGE 437; BOOK 1370, PAGE 335; BOOK 1379, PAGE 216. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 11. RIGHTS AND EASEMENT GRANTED BY DURGIN SQUARE LIMITED PARTNERSHIP TO LOUIS L. DOW, SR., AND BEVERLY DOW, ET AL. AS SET FORTH IN GRANT OF RIGHT OF WAY, DATED JULY 28, 1992 AND RECORDED IN BOOK 2939, PAGE 504. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 12. RIGHTS AND EASEMENT GRANTED TO DURGIN SQUARE LIMITED PARTNERSHIP TO THE CITY OF PORTSMOUTH AS SET FORTH IN CONSERVATION EASEMENT DEED, DATED MARCH 1993, AND RECORDED IN BOOK 2996, PAGE 782. NOTE: THE ABOVE REFERENCED CONSERVATION EASEMENT DEED STIPULATED THAT THE CITY OF PORTSMOUTH BE NOTIFIED IN WRITING WITHIN THIRTY (30) DAYS OF THE TRANSFER OF TITLE TO THE PROPERTY. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 13. RIGHTS AND EASEMENTS GRANTED BY DURGIN SQUARE LIMITED PARTNERSHIP TO PUBLIC SERVICE OF NEW HAMPSHIRE (PSNH) AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY (NET&T), DATED MARCH 2,1993 AND RECORDED IN BOOK 2977, PAGE 1753. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 14. SLOPE RELEASE GRANTED BY AGDA G. CARLSON TO THE STATE OF NEW HAMPSHIRE, DATED JULY 15, 1983 AND RECORDED IN BOOK 2456, PAGE 108. (NOT PLOTTED-LOCATION OF EASEMENT IS NOT DEFINED BY DESCRIPTION)
- 15. RIGHTS AND EASEMENTS GRANTED BY NELSON E. RAMSDELL, JR. AND EDITH RAMSDELL TO THE CITY OF PORTSMOUTH FOR CONSTRUCTION, MAINTENANCE, REPAIR AND REPLACEMENT OF A PUBLIC SIDEWALK, ACKNOWLEDGED AUGUST 31, 1977 AND RECORDED IN BOOK 2292, PAGE 627. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 16. RIGHTS AND EASEMENT FOR A SEWER GRANTED BY DURGIN SQUARE LIMITED PARTNERSHIP TO THE CITY OF PORTSMOUTH, RECORDED IN BOOK 2996, PAGE 767. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 17. TERMS AND PROVISIONS OF THE DEPARTMENT OF THE ARMY PERMIT (NO. 1990-00941) ISSUED TO JDC GROUP, DATED DECEMBER 19, 1991 AND RECORDED IN BOOK 2988, PAGE 1503. (PERTAINS TO MATTERS OF LAND USE AND CANNOT BE PLOTTED)
- 18. TERMS AND PROVISIONS OF N.H. WETLANDS BOARD PERMIT, AND WATER SUPPLY & POLLUTION CONTROL NONSITE SPECIFIC PERMIT ISSUED BY THE STATE OF NEW HAMPSHIRE WETLANDS BOARD TO DURGIN SQUARE LIMITED PARTNERSHIP, RECORDED IN BOOK 2989, PAGE 1306. (PERTAINS TO MATTERS OF LAND USE AND CANNOT BE PLOTTED)
- 19. RIGHTS OF THIRD PARTIES IN AND TO THE FORMER LOCATION OF DURGIN LANE, AS SHOWN ON PLAN D-21788. (PLOTTED-AFFECTS PROPERTY AS SHOWN) NOTE: THE COMPANY INSURES AGAINST LOSS, DAMAGE OR CLAIM AS A RESULT OF ASSERTION OF RIGHTS OR CLAIM OF USE BY SAID THIRD PARTIES OVER THE FORMER LOCATION OF DURGIN LANE.
- 20. RIGHTS, RESTRICTIONS AND A 30-FOOT ACCESS EASEMENT FROM DURGIN SQUARE LIMITED PARTNERSHIP TO 1650 WOODBURY AVENUE COMPANY AS SET FORTH IN THE RIGHT-OF-WAY AND EASEMENT AGREEMENT, DATED APRIL 5, 1993 AND RECORDED IN BOOK 2975, PAGE 2651. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 21. INTENTIONALLY OMITTED
- 22. RIGHTS OF TENANT, AS TENANT ONLY, UNDER A LEASE BETWEEN JDC PORTSMOUTH LIMITED PARTNERSHIP AS LANDLORD AND THE T JX COMPANIES, INC., SUCCESSOR IN INTEREST TO THE T JX OPERATING COMPANIES, INC., AS TENANT, DATED JUNE 28, 1991, MEMORANDUM OF WHICH IS DATED AS OF JULY 18, 1991 AND RECORDED IN BOOK 2990, PAGE 1711, WHICH LANDLORD'S INTEREST IN SAID LEASE IS ASSIGNED TO DURGIN SQUARE LIMITED PARTNERSHIP BY VIRTUE OF AN ASSIGNMENT OF LEASE DATED MAY 18, 1992 AND RECORDED IN BOOK 2990. PAGE 1718; AS FURTHER AFFECTED BY NON-DISTURBANCE AGREEMENT AT BOOK 3938, PAGE 2877 AND AMENDMENTS TO LEASE AT BOOK 3938, PAGE 2883 AND BOOK 4452, PAGE 937. THE ABOVE EXCEPTIONS AFFECT TRACT I OF SCHEDULE A ONLY. (NOT PLOTTED-NON-SURVEY RELATED)

THE ABOVE EXCEPTIONS AFFECT TRACT ONE OF SCHEDULE A ONLY.

23. RIGHTS OF TENANT, AS TENANT ONLY, UNDER A LEASE BETWEEN JDC PORTSMOUTH LIMITED PARTNERSHIP AS LANDLORD AND SHAW'S SUPERMARKETS, INC., AS TENANT, DATED JULY 30, 1991, NOTICE OF WHICH IS DATED AUGUST 5, 1991 AND RECORDED IN BOOK 2890, PAGE 1795, WHICH LANDLORD'S INTEREST IN SAID LEASE IS ASSIGNED TO DURGIN SQUARE LIMITED PARTNERSHIP BY VIRTUE OF AN ASSIGNMENT OF LEASE DATED MAY 18, 1992; AS AFFECTED BY AMENDMENT OF LEASE RECORDED IN BOOK 4452, PAGE 930. (NOT PLOTTED-NON-SURVEY RELATED)

FLOOD NOTE: BY GRAPHIC PLOTTING ONLY. THIS PROPERTY IS ZONE X. OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 330229 0260 E, WHICH BEARS AN EFFECTIVE DATE OF MAY 17. 2005 AND NO IMPROVEMENTS ARE IN A SPECIAL FLOOD HAZARD AREA. AS SHOWN ON THE FEMA WEBSITE (HTTP: //MSC.FEMA.GOV) BY FIRMETTE CREATED ON APRIL 23, 2014 WE HAVE LEARNED THIS COMMUNITY DOES CURRENTLY PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.



EXCEPTIONS FROM COVERAGE (CONTINUED)

- 24. RIGHTS OF TENANT, AS TENANT AND HOLDER OF A NON-EXCLUSIVE EASEMENT TO USE THE COMMON AREAS FOR THE TERM OF LEASE ONLY, UNDER A LEASE BETWEEN JDC PORTSMOUTH LIMITED PARTNERSHIP AS LESSOR AND OFFICEMAX, INC. AS LESSEE, DATED APRIL 13, 1992, MEMORANDUM OF WHICH IS DATED AS OF APRIL 13, 1992 AND RECORDED IN BOOK 2990, PAGE 1720, WHICH LESSOR'S INTEREST IN SAID LEASE IS ASSIGNED TO DURGIN SQUARE LIMITED PARTNERSHIP BY VIRTUE OF AN ASSIGNMENT OF LEASE DATED JUNE 25, 1992 AND RECORDED IN BOOK 2990, PAGE 1725, AS AFFECTED BY AMENDMENT TO LEASE RECORDED IN BOOK 4452, PAGE 945. (NOT PLOTTED-NON-SURVEY RELATED)
- 25. RIGHTS OF TENANT, AS TENANT ONLY, UNDER A CERTAIN LEASE, WITH DURGIN SQUARE LIMITED PARTNERSHIP AS LANDLORD, AS REFERENCED IN MEMORANDUM OF LEASE FROM DURGIN SQUARE LIMITED PARTNERSHIP TO BOSTON MARKET CORPORATION, RECORDED IN BOOK 3592, PAGE 2455, AS AFFECTED BY AGREEMENT REGARDING RESTRICTIONS RECORDED IN BOOK 4849, PAGE 1343. (NOT PLOTTED-NON-SURVEY RELATED)
- 26. TERMS AND PROVISIONS OF APPURTENANT EASEMENTS AT BOOK 4452, PAGE 900, BOOK 4452, PAGE 914 AND BOOK 4453, PAGE 1631 GRANTING ACCESS RIGHTS OVER ABUTTING LOT 17 TO THE LAND. THESE RIGHTS WERE NOT SEARCHED. PLEASE INFORM THE TITLE COMPANY IF YOU WOULD LIKE THESE RIGHTS TO BE SEARCHED SO THEY CAN BE INSURED. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 27. TERMS AND PROVISIONS OF THE DEED AT BOOK 4452, PAGE 881 WHICH CONVEYS A PORTION OF LOT 17 TO THE ABUTTER AS SHOWN ON PLAN D32485. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 28. TERMS AND PROVISIONS OF APPURTENANT EASEMENTS AT BOOK 2935, PAGE 603 AND BOOK 2977, PAGE 2428. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 29. ALL NOTATIONS, FACTS, EASEMENTS AND ISSUES AS SHOWN ON PLAN #D32485. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 30. LEASEHOLD RIGHTS OF VITAMIN SHOPEE INDUSTRIES, INC. IN BOOK 5091, PAGE 2199; HOMEGOODS, INC. AT BOOK 5111, PAGE 880; ZRC OPERATIONS COMPANY, INC AT BOOK 5509, PAGE 327; (NOT PLOTTED-NON-SURVEY RELATED)
- 31. GRANT OF RIGHT OF WAY AT BOOK 2965, PAGE 548. (PLOTTED-BENEFITS PROPERTY AS SHOWN)
- 32. GRANT OF RIGHT OF WAY AT BOOK 2966, PAGE 754. (PLOTTED-BENEFITS PROPERTY AS SHOWN)
- 33. UTILITY EASEMENT AT BOOK 4453, PAGE 1621, (BLANKET COVERAGE-DRAIN/SEWER CONNECTIONS, LOCATION IS NOT DEFINED BY DESCRIPTION)
- 34. INTENTIONALLY OMITTED.
- ****SEE SHEET 4 FOR EXCEPTIONS 35-38

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RECORD DESCRIPTION

EXHIBIT A - LEGAL DESCRIPTION

TRACT ONE (1600 WOODBURY) A CERTAIN PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON, IF ANY, SITUATE AND LYING AND BEING IN THE CITY OF PORTSMOUTH, COUNTY OF ROCKINGHAM AND STATE OF NEW HAMPSHIRE, SHOWN ON PLAN D-32485 AS MAP R-38, LOT 16, SAID TO CONTAIN 694,376 SQUARE FEET, ACCORDING TO SAID PLAN.

TOGETHER WITH THE BENEFIT OF UTILITY EASEMENT OVER MAP R-38, LOT 17, AS RESERVED IN DEED TO RICHARD P. FUSEGNI, DATED FEBRUARY 28, 2005, RECORDED IN BOOK 4452, PAGE 881, SUBJECT TO THE TERMS THEREOF.

***SEE SHEET 4 FOR TRACT TWO, THREE AND FOUR.

SURVEY DESCRIPTION (TRACT ONE):

A CERTAIN TRACT OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON, IF ANY, SITUATE, LYING AND BEING IN THE CITY OF PORTSMOUTH, COUNTY OF ROCKINGHAM, AND STATE OF NEW HAMPSHIRE, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHERLY SIDELINE OF THE RELOCATED DURGIN LANE AT THE NORTHEASTERLY CORNER OF THE DESCRIBED PREMISES; THENCE S 14°16' 10" E, 178.67 FEET TO A POINT, SAID POINT BEING IN THE NORTHERLY SIDELINE OF LAND NOW OR FORMERLY OF 1618 WOODBURY AVE LLC; THENCE TURNING AND RUNNING S 73°34'44" W, 25.54 FEET TO A POINT THENCE TURNING AND RUNNING S 18°16'58" E, 79.06 FEET TO A POINT; THENCE TURNING AND RUNNING N 73°57'36" E, 145.00 FEET TO A POINT; THENCE RUNNING N 62°45'33" E, 40.48 FEET TO A POINT IN THE WESTERLY SIDELINE OF WOODBURY AVENUE; THENCE TURNING AND RUNNING IN SAID WESTERLY SIDELINE OF WOODBURY AVENUE, S 09°54'47" E, 151.50 FEET, TO AN IRON ROD AT THE NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF RICHARD P. FUSEGNI; THENCE TURNING AND RUNNING ALONG LAND OF SAID FUSEGNI, S 79°55'30" W, 198.01 FEET TO A POINT; THENCE TURNING AND RUNNING ALONG LAND OF SAID FUSEGNI, S 13°44'05" E, 235.81 FEET TO A RAILROAD SPIKE; THENCE TURNING AND RUNNING, STILL ALONG LAND OF SAID FUSEGNI, N 76°13'21" E, 182.80 FEET TO A RAILROAD SPIKE IN THE WESTERLY SIDELINE OF WOODBURY AVENUE; THENCE TURNING AND RUNNING ALONG SAID WESTERLY SIDELINE OF WOODBURY AVENUE; ALONG A CURVE TO THE LEFT WHICH AS A RADIUS OF 1,952.86 FEET, AN ARC DISTANCE OF 152.30 FEET, STILL IN SAID WESTERLY SIDELINE OF WOODBURY AVENUE TO A POINT, SAID POINT BEING THE NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF EAMES AND SIMPSON REAL ESTATE; THENCE TURNING AND RUNNING ALONG LAND OF SAID EAMES, S 71 °25'50" W, 167.99 FEET TO A POINT; THENCE TURNING AND RUNNING, STILL ALONG LAND OF SAID EAMES, S 13°59'50" E, 62.28 FEET TO A POINT; THENCE TURNING AND RUNNING, STILL ALONG LAND OF SAID EAMES, S 31 °48' 13" E, 51.41 FEET TO A POINT; THENCE TURNING AND RUNNING, STILL ALONG LAND OF SAID EAMES, S 12°55'05" E, 172.98 FEET TO A POINT IN THE NORTHERLY SIDELINE OF ARTHUR BRADY DRIVE; THENCE TURNING AND RUNNING IN SAID SIDELINE OF ARTHUR BRADY DRIVE, S 65°55'37" W, 269.91 FEET TO A POINT; THENCE RUNNING, STILL ALONG SAID ARTHUR BRADY DRIVE, S 65°52' 19" W, 381.02 FEET TO A POINT, SAID POINT BEING IN THE EASTERLY SIDELINE OF LAND NOW OR FORMERLY OF OCW RETAIL: THENCE TURNING AND RUNNING ALONG LAND OF SAID OCW RETAIL, N 22°36'41" W, 244.81 FEET TO A POINT; THENCE TURNING AND RUNNING, N 70°42' 09" E, 253.61 FEET TO A POINT; THENCE RUNNING, N 71 °29' 10" E, 26.54 FEET TO A DRILL HOLE IN THE CORNER OF A STONE WALL; THENCE TURNING AND RUNNING ALONG SAID STONE WALL, N 30°15'29" W, 435.26 FEET TO AN ANGLE POINT IN SAID STONE WALL; THENCE CONTINUING ALONG SAID STONE WALL, N 41 °57'49" W, 82.02 FEET TO A CORNER IN SAID STONE WALL; THENCE, N 36°05'40" W, 36.87 FEET TO A POINT; THENCE, N 31°48'24" W, 20.91 FEET TO A POINT; THENCE ALONG A STONE WALL, N 40°16'24" W, 284.68 FEET TO A POINT; THENCE RUNNING ALONG SAID STONE WALL, N 38°59'24" W, 155.91 FEET TO A POINT; THENCE, N 39°00'03" W, 44.08 FEET TO A POINT; THENCE, N 35°30'52" W, 36.82 FEET TO A POINT, WHICH POINT IS THE NORTHWESTERLY CORNER OF THE DESCRIBED PREMISES AND IN THE SOUTHERLY SIDELINE OF RELOCATED DURGIN LANE; THENCE TURNING AND RUNNING IN THE SOUTHERLY SIDELINE OF RELOCATED DURGIN LANE, ALONG A CURVE TO THE RIGHT, WHICH HAS A RADIUS OF 18.00 FEET, AN ARC DISTANCE OF 11.91 FEET TO A POINT; THENCE S 51 °01' 12" E, 42.04 FEET, STILL IN THE SOUTHERLY SIDELINE OF DURGIN LANE, TO A POINT; THENCE ALONG A CURVE TO THE LEFT, WHICH HAS A RADIUS OF 159.54 FEET, AN ARC DISTANCE OF 148.27 FEET, STILL IN THE SOUTHERLY SIDELINE OF RELOCATED DURGIN LANE, TO A POINT; THENCE CONTINUING IN THE SAID SOUTHERLY SIDELINE OF THE RELOCATED DURGIN LANE, N 75°43'50" E, 659.49 FEET TO THE POINT OF BEGINNING.

CONTAINING 694,376 SQUARE FEET OR 15.941 ACRES OF LAND/

THE PROPERTY DESCRIBED ABOVE IS THE SAME PROPERTY AS DESCRIBED IN FIDELITY NATIONAL TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NO. 14-0093KC-FN (NH), BEARING AN EFFECTIVE DATE OF APRIL 2, 2014.







MAP 238 LOT 20 100 ARTHUR F. BRADY DRIVE N/F OCW RETAIL PORTSMOUTH LLC BK. 4797 PG. 530



R.O.W. LINE

EXHIBIT A - LEGAL DESCRIPTION

TRACT TWO (1618 WOODBURY) TWO LOTS OF LAND WITH THE BUILDINGS THEREON LOCATED ON WOODBURY AVENUE, PORTSMOUTH, COUNTY OF ROCKINGHAM AND STATE OF NEW HAMPSHIRE, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A CERTAIN LOT OR PARCEL OF LAND WITH THE BUILDINGS THEREON, SITUATE ON THE WESTERLY SIDE OF WOODBURY AVENUE, IN PORTSMOUTH, COUNTY OF ROCKINGHAM AND STATE OF NEW HAMPSHIRE, BOUNDED AND DESCRIBED AS

FOLLOWS: EASTERLY BY WOODBURY AVENUE EIGHTY (80) FEET; NORTHERLY BY LAND NOW OR FORMERLY OF FRED J. ROWE, ONE HUNDRED FORTY-FIVE (145) FEET; WESTERLY BY LAND NOW OR FORMERLY OF KATHERINE T. HANSUCKER EIGHTY (80) FEET, SOUTHERLY BY LAND NOW OR FORMERLY OF KATHERINE T. HANSUCKER, ONE HUNDRED FORTY-FIVE (145) ÈΕÉΤ.

LOT 2

LOT 1

A CERTAIN ADJACENT TRACT OR PARCEL OF LAND LYING EASTERLY OF THE ABOVE PREMISES AS FOLLOWS: BEGINNING AT A CONCRETE FILLED IRON PIPE AT THE SOUTHWESTERLY CORNER OF THE DESCRIBED PARCEL AT THE SOUTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF K & M REALTY AND NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF AGDA C. CARLSON, SAID IRON PIPE ALSO BEING LOCATED ON THE FORMER WESTERLY SIDELINE OF OLD WOODBURY AVENUE, THENCE RUNNING ALONG LAND OF SAID K & M REALTY N 17°07'37" W, A DISTANCE OF 79.99 FEET TO AN IRON PIPE AT THE SOUTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF 1650 WOODBURY AVENUE COMPANY AT THE SOUTHWESTERLY CORNER OF OTHER LAND OF THE SAID CITY OF PORTSMOUTH, SAID IRON PIPE ALSO BEING LOCATED ON THE SAID FORMER SIDELINE OF OLD WOODBURY AVENUE, THENCE TURNING AND RUNNING ALONG OTHER LAND OF SAID CITY OF PORTSMOUTH N 66°21'32" E, A DISTANCE OF 50.11 FEET TO A POINT ON THE WESTERLY SIDELINE OF WOODBURY AVENUE, THENCE TURNING AND RUNNING ALONG SAID SIDELINE OF WOODBURY AVENUE S 09°54'47" E, A DISTANCE OF 79.19 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF OTHER LAND OF SAID CITY OF PORTSMOUTH, THENCE TURNING AND RUNNING ALONG OTHER LAND OF SAID CITY OF PORTSMOUTH S 62°45'33" W, A DISTANCE OF 40.48 FEET TO SAID POINT OF BEGINNING. SAID TRACT OR PARCEL OF LAND CONTAINING 3,521 SQUARE FEET, MORE OR LESS.

SAID PARCEL OF LAND BEING SHOWN ON PLAN ENTITLED "DISCONTINUANCE PLAN OF THE PUBLIC RIGHT-OF-WAY OF OLD WOODBURY AVENUE," DATED APRIL 8, 1991, BY RICHARD P. MILLET AND ASSOCIATES, AND RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS AS PLAN NO. D-21772.

TRACT THREE (EASEMENTS

TRACTS ONE AND TWO ARE INSURED TOGETHER WITH BENEFIT OF THE APPURTENANT EASEMENTS SET FORTH AT BOOK 2935, PAGE 603 AND BOOK 2977, PAGE 2428, SUBJECT TO THE TERMS THEREOF.

TRACT FOUR (EASEMENTS) TRACT ONE IS INSURED TOGETHER WITH BENEFIT OF THE APPURTENANT EASEMENTS SET FORTH AT BOOK 4452, PAGE 900, BOOK 4452, PAGE 914 AND BOOK 4453, PAGE 1631 GRANTING ACCESS RIGHTS OVER ABUTTING LOT 17 TO THE LAND, SUBJECT TO THE TERMS THEREOF.

LEGEND OF SYMBOLS & ABBREVIATIONS

	20 0 10 20	40	60	
	SCHEDULE B EXCEPTION ITEM	С С <i>Е.Т.</i>	GAS GATE VALVE ELECTRIC TRANSFORMER	
	ENCROACHMENT SYMBOL	× MH ⊠	MONITORING WELL UNIDENTIFIED MANHOLE	
SB/DH	STONE BOUND/ DRILLHOLE	MW	, our individint ville	
) <i>I.P</i> .	IRON PIN/IRON PIPE	*	POST INDICATOR VALVE	▏║】
DH	DRILLHOLE	wc ⊗	WATER GATE VALVE	▎║╹
22)	NUMBER OF PARKING SPACES	• -	UTILITY POLE	•
Ê,	HANDICAP PARKING	S	SEWER MANHOLE SIGN	
s)	SET	smH		
0. W.	RIGHT-OF-WAY	TMH	TELEPHONE MANHOLE	▎║╺
P.O.B.	POINT OF BEGINNING	E EMH	ELECTRIC MANHOLE	C
о.н.	OVERHANG	- 1 GW	GUY WIRE	
CC	CONCRETE CURB	¥	FIRE HYDRANT	
GC N /E	GRANITE CURB	\$	LIGHT POLE	
(F)	FOUND	Ш <i>В</i> МН	DRAIN MANHOLE	
FP	FLAG POLE		CATCH BASIN	
EOP	EDGE OF PAVEMENT	•	BOLLARD	
WC.	CONCRETE SURFACE	 B	UVERHEAD WIRES	
300	BIT. CONC. CURB			'
C.P.	CONCRETE PAD		FENCE	•
L.F.	CHAIN LINK FENCE		LOCUS BOUNDARY LINE	'
CONC.	BITUMINOUS CONCRETE		EASEMENT LINE	

ALTA/ACSM LAND TITLE SURVEY DPF DURGIN SQUARE 1618 WOODBURY AVENUE, PORTSMOUTH, NH

DATE: MAY 15, 2014

SHEET 4

TOTAL AREA LEGEND: DISTURBED IMPERVIOUS AREA 870± SQ. FT KEYED NOTES: 1A APPROX. 525 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1B APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1C APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1C APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1D APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1D APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 1D APPROX. 115 SQ. FT. DIST FOR PROPOSED AGI EQUIPM 12 EXISTING PARKING STALL TO (TYP OF 18)
3 EXISTING LIGHT POLE TO BE

FT. DISTURBED IMPERVIOUS AREA EQUIPMENT & CONDUIT ROUTING FT. DISTURBED IMPERVIOUS AREA EQUIPMENT & CONDUIT ROUTING

FT. DISTURBED IMPERVIOUS AREA EQUIPMENT & CONDUIT ROUTING

FT. DISTURBED IMPERVIOUS AREA EQUIPMENT & CONDUIT ROUTING TALL TO BE RESTRIPED

TO BE RELOCATED

	<u>KEY</u>	ED NOTES:				
	1	PROPOSED DUAL L3 DISPENSER (TYP OF 6)				
	2 A	PROPOSED BOLLARD (FURNISH & (TYP OF 20) (SEE SHEET C-3.1,	INSTALL) DETAIL 1)			PROPERTY LINE -
	2B	PROPOSED REMOVABLE BOLLARD (FURNISH & INSTALL) (TYP OF 2)				
	3	PROPOSED UTILITY TRANSFORMER (BY UTILITY COMPANY)				
	4	PROPOSED SWITCHBOARD "MDP"				
	5	PROPOSED EV SIGN POST (TYP OF 2) (SEE SHEET C-3.2, [DETAIL 2)		T	
	6	PROPOSED WHEELSTOP (FURNISH (TYP OF 12) (SEE SHEET $C-3.1$,	& INSTALL) DETAIL 4)			
	7	PROPOSED UTILITY RACK				
	8	PROPOSED METER SOCKET				
	9	PROPOSED CT CABINET				
	10	PROPOSED SITE COMM BOX				
	11	PROPOSED MINI POWER-ZONE				
	12	RELOCATED LIGHT POLE				
	13	PROPOSED 16'-6 x 5'-0" x 11'- (PER CANOPY STRUCTURAL PACKA (TYP OF 3)	-10" CANOPY GE)			
5	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		`		
$\left\{ \right. \right\}$	CAN	OPY DATA		}		
ξ	CANOF	Y OVERHANG AREA	82.5 S.F. (16.5' x 5')	}		PARKING STALL LEGEND
(CANOF	Y FLOOR TO CEILING HEIGHT	10.5'	}		DESCRIPTION
ζ			825 4 7 -	\rangle	Ľ	PROPOSED L3 DISPENSER
{	TOTAL	PROJECT STRUCTURE AREA	247.5 S.F.	5		
(

	STAMP:
	HEITON HANDEN HANDON SHELTON DOUGLAS KEISLING No. 18260 CENSED CENSED HANDON KEISLING No. 18260 HANDON KEISLING No. 18260 HANDON KEISLING KEISLING NO. 18260 HANDON KEISLING KEISLIN
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE: SDK SHELTON D. KEISLING 18260 ELECTRICAL E TMS TERRANCE M. SUPER 10926 ELECTRICAL E
	PLANS PREPARED FOR:
0' 4' 8' 16' 24' 32'	PLANS PREPARED BY:
	DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED. SUBMITTALS:
	DESCRIPTION DATE DT REV ISSUED FOR REVIEW 09/20/24 IBA A ISSUED FOR PERMITTING 09/25/24 IBA 0 REVISED PER AHJ COMMENTS 11/15/24 IBA 1 Image: Description of the second
(TYP)	WHOLE FOOD (PORTSMOUTH)
	AGI-INA-NH-0001 SITE ADDRESS: 1600 WOODBURY AVE PORTSMOUTH, NH 03801
2	SHEET DESCRIPTION: ENLARGED SITE PLAN & ELEVATION

OPEN SPACE ANALYSIS	
TOTAL OPEN/GREEN SPACE BEFORE CONSTRUCTION	177,580 S.F.
TOTAL OPEN/GREEN SPACE AFTER CONSTRUCTION	177,580 S.F.
CHANGE IN OPEN/GREEN SPACE	0 S.F.

NOTES:

- 1. COMPOST FILTER SOCK SHALL BE PL BOTH ENDS OF THE BARRIER SHALL SLOPE AT 45 DEGREES TO THE MAIN SLOPE LENGTH ABOVE ANY BARRIER FOR THE SIZE OF THE SOCK AND TH
- 2. TRAFFIC SHALL NOT BE PERMITTED T
- 3. ACCUMULATED SEDIMENT SHALL BE R THE ABOVE GROUND HEIGHT OF THE MANNER DESCRIBED ELSEWHERE IN T
- 4. DAMAGED SOCKS SHALL BE REPAIRED SPECIFICATIONS OR REPLACED WITHIN
- 5. BIODEGRADABLE COMPOST FILTER SOC MONTHS; PHOTODEGRADABLE SOCKS / SOCKS SHALL BE REPLACED ACCORD RECOMMENDATIONS.
- 6. UPON STABILIZATION OF THE AREA TR SHALL BE REMOVED.

	STAMP:				
	KEISLING No. 18/2024 NEW HAAAAA SHELTON DOUGLAS KEISLING No. 18260 CENSED ONAL ENGINE SHELTON DOUGLAS KEISLING No. 18260 CENSED ONAL ENGINE				
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE: SDK SHELTON D. KEISLING 18260 ELECTRICAL E TMS TERRANCE M. SUPER 10926 ELECTRICAL E				
REA BEXISTING CONTOLIPS	PLANS PREPARED FOR:				
AREA W					
LACED AT EXISTING LEVEL GRADE.	PLANS PREPARED BY:				
BE EXTENDED AT LEAST 8 FEET UP N BARRIER ALIGNMENT. MAXIMUM SHALL NOT EXCEED THAT SPECIFIED HE SLOPE OF ITS TRIBUTARY AREA. TO CROSS COMPOST FILTER SOCKS. REMOVED WHEN IT REACHES 1/2	DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.				
THE PLAN.	DESCRIPTIONDATEBYREVISSUED FOR REVIEW09/20/24IBAA				
ACCORDING TO MANUFACTURER'S N 48 HOURS OF INSPECTION. CKS SHALL BE REPLACED AFTER 6	ISSUED FOR PERMITTING09/25/24IBA0REVISED PER AHJ COMMENTS11/15/24IBA1Image: Comparison of the second secon				
AFTER 1 YEAR. POLYPROPYLENE DING TO MANUFACTURER'S					
RIBUTARY TO THE SOCK, STAKES	APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUTH)				
	APPLICANT SITE NUMBER:				
	AGI-INA-NH-0001				
	SITE ADDRESS: 1600 WOODBURY AVE PORTSMOUTH, NH 03801				
	SHEET DESCRIPTION: SHEET #:				
SOCK DETAIL 2	CONTROL PLAN C-1.4				
· · · · ·					

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7

GENERAL NOTE:

CONTRACTOR SHALL INSTALL BELL END ON ALL CONDUITS AFTER INSTALLATION

KEYED NOTES:

- PROPOSED $5'-3" \times 12'-0"$ PAD FOR (TYP OF 3) (SEE SHEET C-3.0) 1
- PROPOSED SIGN POST FOUNDATION (TYP OF 2) (SEE SHEET C-3.2, DETA 2
 - PROPOSED WHEELSTOP (TYP OF 12) (SEE SHEET C-3.1, DE
- 3 RELOCATED LIGHT POLE

	STAMP:					
FITTINGS R L3 DISPENSER TAIL 2) ETAIL 4)	NEW HAND NEW HAND NEW HAND SHELTON DOUGLAS KEISLING No. 18260 CENSED CENSED CONSCIONAL ENGINE SULLOW HAND DOUGLAS KEISLING No. 18260 CENSED SULLOW HAND DOUGLAS KEISLING NO. 18260 CENSED					
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01 ENGINEER: PE#: D SDK SHELTON D. KEISLING 18260 E TMS TERRANCE M. SUPER 10926 E	191 DISCIPLINE: LECTRICAI	-	E E		
	PLANS PREPARED BY:					
	THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.					
	DESCRIPTION ISSUED FOR REVIEW ISSUED FOR PERMITTING REVISED PER AHJ COMMENTS	DATE 09/20/24 09/25/24 11/15/24	BY IBA IBA IBA	REV A 0 1		
	APPLICANT SITE NAME:					
	WHOLE FOOD (PORTSMOUTH)					
	AGI-INA-NH-O	A-NH-0001				
	1600 WOODBUR PORTSMOUTH, N	Y AV TH 038 1 г ^{shee}	E 01 Et #: -			
	FOUNDATION PLANS (1 OF 2)	C	-2.	0		

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7

KEYED NOTES:

1	UTILITY TRANSFORMER (BY
2	PROPOSED BOLLARD FOUR (TYP OF 10) (SEE SHEET
3	PROPOSED SWITCHBOARD SIZE PER MANUFACTURER
4	PROPOSED UTILITY RACK
5	PROPOSED CT CABINET F

STAMP:			
NEW HANDON NEW HANDON SHELTON DOUGLAS KEISLING No. 18260 CENSED CONSECUTION SULTON CONSTITUTION F94D8A5B80B407			
PE CERTIFICATE OF AUTHORIZATION # 011 ENGINEER: PE#: DIS SDK SHELTON D. KEISLING 18260 EL TMS TERRANCE M. SUPER 10926 EL	91 SCIPLINE ECTRICA ECTRICA	: L L	E
PLANS PREPARED FOR:			
PLANS PREPARED BY:			
DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHE PROPERTY OF SSC, INC. AND IS LENT TO T THEIR CONFIDENTIAL USE ONLY, AND IN THE LOAN OF THIS DRAWING, THE BORRO AGREES TO RETURN IT UPON REQUEST A WILL NOT BE REPRODUCED, COPIED, LE DISPOSED OF DIRECTLY OR INDIRECTLY, PURPOSE OTHER THAN FOR WHICH IT	ED AND IS THE BORF CONSIDE WER PRO ND AGRE NT OR OT NOR USE T IS FURN	THE S ROWER RATION DMISES ES THA THERW D FOR IISHED.	OLE FOR I OF AND AT IT ISE ANY
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APPLICANT SITE NAME: WHOLE FOOD (PORT	SMC	OUT.	H)
APPLICANT SITE NUMBER: AGI-INA-NH-0	001		
SITE ADDRESS: 1600 WOODBURY PORTSMOUTH, NI	Y AV H 038	E 301	
SHEET DESCRIPTION: FOUNDATION PLANS (2 OF 2)	C	ET #: - 2-2.	1

BY UTILITY COMPANY)

UNDATION T C-3.1, DETAIL 1) D PAD (FIELD VERIFY R SPECIFICATIONS)

FOUNDATION

	STAMP:	
	NEW HAMBON NOT NEW HAMBON SHELTON DOUGLAS H H H H H H H H H H H H H H H H H H H	2024
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 011 ENGINEER: PE#: DI SDK SHELTON D. KEISLING 18260 EL TMS TERRANCE M. SUPER 10926 EL	191 SCIPLINE: .ECTRICAL E .ECTRICAL E
	PLANS PREPARED FOR:	J P [™]
I ASPHALTIC SURFACE COURSE	PLANS PREPARED BY:	
AGGREGATE BASE COURSE		
TACK COAT	THIS DRAWING HAS NOT BEEN PUBLISHE PROPERTY OF SSC, INC. AND IS LENT TO T THEIR CONFIDENTIAL USE ONLY, AND IN THE LOAN OF THIS DRAWING, THE BORRO AGREES TO RETURN IT UPON REQUEST A WILL NOT BE REPRODUCED, COPIED, LE DISPOSED OF DIRECTLY OR INDIRECTLY, PURPOSE OTHER THAN FOR WHICH IT	ED AND IS THE SOLE THE BORROWER FOR CONSIDERATION OF WER PROMISES AND ND AGREES THAT IT NT OR OTHERWISE NOR USED FOR ANY T IS FURNISHED.
TION	DESCRIPTION	DATE BY REV
ASPHALTIC	ISSUED FOR PERMITTING	09/25/24 IBA 0
SURFACE COURSE	REVISED PER AHJ COMMENTS	11/15/24 IBA 1
	APPLICANT SITE NAME:	
	WHOLE FOOD (PORT	'SMOUTH)
PRIME COAT PER STATE SPECIFICATIONS	AGI-INA-NH-0	001
AGGREGATE BASE COURSE PER STATE SPECIFICATIONS	1600 WOODBURY PORTSMOUTH, N	Y AVE H 03801
SECTION	EQUIPMENT	
DETAIL 2	(1 OF 3)	0-3.0

	STAMP:
	NEW HAAR NEW HAAR SHELTON DOUGLAS SHELSLING No. 18260 CENSED OWNER SWITCH WITCH NO. 18260 SUIT SUIT SUIT SUIT SUIT SUIT SUIT SUIT
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE: SDK SHELTON D. KEISLING 18260 ELECTRICAL E TMS TERRANCE M. SUPER 10926 ELECTRICAL E
2 <u>DTES</u> :	PLANS PREPARED FOR:
STANDARD & VAN ACCESSIBLE STALLS ICABLE SHALL PROVIDE SURFACE MARKING CHARGING ONLY" IN LETTER 12" HIGH NTER LINE OF THE TEXT SHALL BE A FROM THE CENTER LINE OF THE LOWER CORNER AT, OR LOWER SIDE	PLANS PREPARED BY:
STENCIL TO BE PLACE AT THE E OF THE PROPOSED STALL. /2" SPACING BETWEEN STENCILS.	PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.
ARKING TO BE PAINTED WHITE. BE WATER BORNE OR SOLVENT ORS AS SHOWN OR SPECIFIED HEREIN. ARKING PAINTS SHALL COMPLY WITH STATE AND LOCAL LAWS ENACTED TO PLIANCE WITH FEDERAL CLEAN AIR PAINT MATERIALS SHALL CONFORM TO TIONS OF THE LOCAL AIR POLILITION	DESCRIPTIONDATEBYREVISSUED FOR REVIEW09/20/24IBAAISSUED FOR PERMITTING09/25/24IBA0REVISED PER AHJ COMMENTS11/15/24IBA1Image: Comment of the second se
E PAINT" PAINTS SHALL CONFORM TO	APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUTH)
RNE PAINT: PAINT SHALL CONFORM TO 6 OR AASHTO M248. PAINT SHALL BE IG, QUICK DRYING, AND ALKYD BASE PAINT SUITABLE FOR TRAFFIC RFACE AND BE MIXED IN ACCORDANCE ACTURER'S INSTRUCTIONS BEFORE	APPLICANT SITE NUMBER: AGI-INA-NH-0001 SITE ADDRESS:
	1600 WOODBURY AVE PORTSMOUTH, NH 03801
3	EQUIPMENT DETAILS (2 OF 3) C-3.1

	^
JETAIL	2)

	STAMP:			
	-ENGINEERING LICENSE:			
	STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION #0 ⁷ ENGINEER: PE#: E SDK SHELTON D. KEISLING 18260 E TMS TERRANCE M. SUPER 10926 E	1191 DISCIPLINE ELECTRICA	: L L	ШШ
				™
	PLANS PREPARED BY:			
	DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISH PROPERTY OF SSC, INC. AND IS LENT TO THEIR CONFIDENTIAL USE ONLY, AND IN THE LOAN OF THIS DRAWING, THE BORR AGREES TO RETURN IT UPON REQUEST WILL NOT BE REPRODUCED, COPIED, L DISPOSED OF DIRECTLY OR INDIRECTLY PURPOSE OTHER THAN FOR WHICH	IED AND IS THE BORF I CONSIDE OWER PRO AND AGRE ENT OR O ^T 7, NOR USE IT IS FURN	THE S ROWER RATION MISES ES THA THERW D FOR IISHED.	OLE FOR I OF AND AT IT ISE ANY
	DESCRIPTION ISSUED FOR REVIEW ISSUED FOR PERMITTING REVISED PER AHJ COMMENTS	DATE 09/20/24 09/25/24 11/15/24	BY IBA IBA	REV A 0 1
	APPLICANT SITE NAME: WHOLE FOOD (POR	ГЅМС	DUT.	H)
	APPLICANT SITE NUMBER:	0001		
	SITE ADDRESS: 1600 WOODBUR PORTSMOUTH, N	Y AV 1H 038	E 301	
2	SHEET DESCRIPTION: EQUIPMENT DETAILS (3 OF 3)	C	=⊤#: - 2-3.	2

EQUIPMENT NOTES:	
PROPOSED DUAL L3 DISPENSER (TYP OF 6)	
2 PROPOSED 3000A, 480Y/277V SWITCHBOARD "MDP"	
BY UTILITY COMPANY)	
4 PROPOSED METER SOCKET	
5 PROPOSED CT CABINET	
6 PROPOSED SITE COMM BOX	
7 PROPOSED MINI POWER-ZONE	
8 RELOCATED LIGHT POLE	
CONDUIT ROUTING NOTES:	
C1 (9) 4" PVC SCH40 CONDUITS FOR POWER FROM UTILITY TRANSFORMER TO CT CABINET	
C2 (9) 4" PVC SCH40 CONDUITS FOR POWER FROM CT CABINET TO SWITCHBOARD "MDP"	
C3 1" PVC SCH40 CONDUIT FOR POWER FROM SWITCHBOARD "MDP" TO MINI POWER-ZONE	IS CINCE
(2) 3" PVC SCH40 CONDUITS FOR POWER FROM SWITCHBOARD "MDP" TO 400KW DC DISPENSER (TYP OF 6)	
C5 1" PVC SCH40 CONDUIT FOR FIBER FROM	
C6 EXISTING REROUTED CONDUIT FOR POWER FROM SOURCE	
TO RELOCATED LIGHT POLE	
C7 TO CANOPY LIGHTING (TYP OF 3)	
	PARKING STALL LEGEN
	PROPOSED L3 DISPENSER

				MAINS	IAINS TYPE: MCB					DISTRIB	UTION	TYPE:		277/480Y, 3-PH, 4-WIRE	277/480Y, 3-PH, 4-WIRE									
PAN		NAME		500	TICHE	JUARD	MAINS	RATING	G (A):	3000			RATED F	AULT	CURREN	IT:	65 KAIC (VERIFY W/ UTI	65 KAIC (VERIFY W/ UTILITY PRIOR TO ORDERING)						
STAT	US:			NEW	/		BUS R	S RATING (A): 3000					RATING	TYPE:			FULLY RATED	FULLY RATED						
LOC	LOCATION: OUTSIDE ENCI					ENCLO	OSURE:	-	NEMA 3	3R		SERVICE	ENTR	ANCE R	ATED:	YES								
SUP					MOUN	TING:		PAD-M	OUNTED		ISOLATE	D GND	BAR:		NO									
CKT											τοται	PER PHASE							,				CKT	
#																<u>.</u>					<u>. </u>		#	
	L	R	HV	M	С	DESCRIPTION		NOTE	AMP	POLE	Α	В	С	AMP	POLE	NOTE	DESCRIPTION	L	R	HV	М	С		
1					133.33	PROPOSED DC400KW CH					266.66						PROPOSED DC400KW CHARGER			<u> </u>		133.33	2	
3					133.33	EVCS-01			600	3		266.66		600	3		EVCS-02			ļ'		133.33	4	
5					133.33								266.66									133.33	6	
7					133.33	PROPOSED DC400KW CH	ARGER				266.66						PROPOSED DC400KW CHARGER		I	ļ'		133.33	8	
9					133.33	EVCS-03			600	3		266.66		600	3		EVCS-04			'		133.33	10	
11					133.33								266.66					\mid	,	ļ'		133.33	12	
13					133.33	PROPOSED DC400KW CH	PROPOSED DC400KW CHARGER				266.66						PROPOSED DC400KW CHARGER	 	 	ļ'	 	133.33	14	
15					133.33	EVCS-05	EVCS-05			600	3		266.66		600	3	3	EVCS-06	\vdash	,	ļ'	\vdash	133.33	16
17					133.33								266.66					$ \longrightarrow $	I	<u> </u>	└───┤	133.33	18	
19					1.80						1.80							<u> </u>	,	'	╞───┤		20	
21					0.00	MINI POWER-ZONE	=	30	30 3		0.00		30	3		SURGE PROTECTION DEVICE	 		'	 		22		
23					0.18								0.18										24	
											801.78	799.98	800.16				2401.92	TOTAL	CONN	(VA				
									TOTAL	_ AIMPS =	2,894.5	2,888.0	2,888.7	2889.06 TOTAL CONN AMPS										
								DEM	AND FAC	TOR	Α	В	С		TOTAL	-1°	NOTES							
			LIGHTI	NG					1.25		0.00	0.00	0.00		0.00									
			FIRST	10KVA	RECEPTA	ACLES (3.33 KVA PER PHAS	E)		1.00		0.00	0.00	0.00		0.00									
			REMAI	NING F	RECEPTAC	CLES			0.50		0.00	0.00	0.00		0.00									
			HVAC E	EQUIP					1.00		0.00	0.00	0.00		0.00									
			25% O	F LARC	GEST MOT	OR			0.25		0.00	0.00	0.00		0.00									
			MISCE	LLANE	OUS				1.00		0.00	0.00	0.00		0.00									
			CONTI	NUOU	5				1.25		1002.23	999.98	1000.20		3002.40									
								TOTALS	(KVA)		1002.23	999.98	1000.20		3002.40	_								
								TOTALS	(A)		3618.14	3610.02	3610.83		3611.33									

				MAINS 1	AINS TYPE: MCB					DISTRI	BUTIO	N TYPE	:	<mark>120/208Y, 3-PH,</mark>	120/208Y, 3-PH, 4-WIRE														
FAN			•	FAN		UARD LF-I		INS RATING (A): 60				RATED FAULT CURRENT:					22 KAIC	22 KAIC											
STAT	US:			NEW			BUS RA	S RATING (A): 60									FULLY RATED	FULLY RATED											
LOC				OUTS	IDE		ENCLOS	SURE:		NEMA 3	BR		SERVIC	E ENT	RANCE	RATED	: YES												
SUPF	SUPPLY FROM: TRANSFORMER "LP-1" MO						MOUNT	ING:		H-FRAN	ИE		ISOLAT	ED GN	D BAR:		NO												
							-			1			1																
OVT																							OKT						
UK1 #			LUAD								TOTAL									LOAD			#						
	L	R	HV	М	С	DESCRIPTION		NOTE	AMP	POLE	А	В	С	AMP	POLE	NOTE	DESCRIPTION	L	R	HV	М	С	<i>"</i>						
1				1.50		SITE COMMS BOX P	WR		30	1	1.80			20	1		CANOPY LIGHTING	0.30					2						
3						SPACE						0.00			_		SPACE						4						
5		0.18				RECEPTACLE			20	1			0.18				SPACE						6						
7											0.00				-		SPACE						8						
9						COMMS SPD		30		3		0.00					SPACE						10						
11													0.00				SPACE						12						
									TO	FAL KVA =	1.80	0.00	0.18					1.98 TOTAL CONN KVA											
									TOTA	L AMPS =	15.0	-	1.5	1.5 5.50 TOTAL CONN AMPS															
								DEM	IAND FAC	TOR	Α	в	С		TOTAL		NOTES												
			LIGHT	ING					1.25		0.38	0.00	0.00		0.38														
			FIRST	10KVA F	RECEPT	TACLES (3.33 KVA PER PHA	SE)		1.00		0.00	0.00	0.18		0.18														
			REMA	NING RE	ECEPT	ACLES			0.50		0.00	0.00	0.00		0.00														
			HVAC I	EQUIP					1.00		0.00	0.00	0.00		0.00														
			25% O	F LARGI	EST MO	TOR			0.25		0.00	0.00	0.00		0.00														
			MISCE	LLANEC	OUS				1.00		1.50	0.00	0.00		1.50														
	CONTINUOUS								1.25		0.00	0.00	0.00		0.00														
						Ē.	TOTALS ((KVA)		1.88	0.00	0.18		2.06	-														
							1	TOTALS ((A)		15.63	0.00	1.50		5.70														

PANELBOARD NOTES:

- PROVIDE EQUIPMENT WITH SUFFICIENT INTERRUPTING CA SAFE INSTALLATION. AIC RATING NOTED ON EACH PANEL RATING ACCEPTED WITHOUT ADDITIONAL DOCUMENTATION
- CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAIN LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS. 2.

PANEL SCHEDULE

		ENGINEERING LICENSE:		
		PENGINEERING LICENSE. STATE OF NEW HAMPSHIRE PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE: SDK SHELTON D. KEISLING 18260 ELECTRICA TMS TERRANCE M. SUPER 10926 ELECTRICA	-	EE
		PLANS PREPARED FOR:		
		PLANS PREPARED BY:		
		THIS DRAWING HAS NOT BEEN PUBLISHED AND IS PROPERTY OF SSC, INC. AND IS LENT TO THE BORR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDER THE LOAN OF THIS DRAWING, THE BORROWER PRO AGREES TO RETURN IT UPON REQUEST AND AGRE WILL NOT BE REPRODUCED, COPIED, LENT OR OT DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USE PURPOSE OTHER THAN FOR WHICH IT IS FURN	THE SC OWER RATION MISES ES THA HERWI D FOR ISHED.	DLE FOR I OF AND AT IT ISE ANY
		DESCRIPTION DATE	BY IBA	REV A
		ISSUED FOR PERMITTING 09/25/24	IBA	0
			ЪA	1
		WHOLE FOOD (PORTSMO	UT	H)
		APPLICANT SITE NUMBER: AGI-INA-NH-0001		
APACITY (AIC) REQUIRED FOR A ELBOARD SCHEDULE IS MINIMUM N THAT INDICATES OTHERWISE.		SITE ADDRESS: 1600 WOODBURY AV PORTSMOUTH, NH 038	E 01	
TYPED PANEL DIRECTORY	1	PANEL SCHEDULE	<u>-</u> 2.	1

STAMP:-

(TYP OF 2)

CONCRETE

GROUND ROD (TYP)———/

-STAMP.								
NEW HAMON HEISLING HEISLING No. 18260 CENSED NAL ENOMINE SULTONICAL ENOMINE SULTONICAL ENOMINE SULTONICAL ENOMINE SULTONICAL ENOMINE SULTONICAL ENOMINE	2024							
ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01 ⁻ ENGINEER: PE#: DI SDK SHELTON D. KEISLING 18260 EI TMS TERRANCE M. SUPER 10926 EI	191 ISCIPLINE: LECTRICAL E LECTRICAL E							
PLANS PREPARED FOR:	JR [™]							
PLANS PREPARED BY:								
DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHE PROPERTY OF SSC, INC. AND IS LENT TO THEIR CONFIDENTIAL USE ONLY, AND IN THE LOAN OF THIS DRAWING, THE BORRO AGREES TO RETURN IT UPON REQUEST A WILL NOT BE REPRODUCED, COPIED, LE DISPOSED OF DIRECTLY OR INDIRECTLY, PURPOSE OTHER THAN FOR WHICH I SUBMITTALS:	ED AND IS THE SOLE THE BORROWER FOR CONSIDERATION OF OWER PROMISES AND AND AGREES THAT IT ENT OR OTHERWISE NOR USED FOR ANY T IS FURNISHED.							
ISSUED FOR REVIEW ISSUED FOR PERMITTING REVISED PER AHJ COMMENTS	09/20/24 IBA A 09/25/24 IBA 0 11/15/24 IBA 1							
APPLICANT SITE NAME: WHOLE FOOD (PORT	(SMOUTH)							
WHOLE FOOD (PORTSMOUTH) APPLICANT SITE NUMBER: AGI-INA-NH-0001								
SITE ADDRESS: 1600 WOODBUR PORTSMOUTH, N	Y AVE H 03801							
SHEET DESCRIPTION: ELECTRICAL DETAILS	SHEET #: E-3.0							
	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PECERTIFICATE OF AUTHORIZATION # 01 ENGINEER: PEH: D SK SHELTON D KEISLING 1920 TMS TERRANCE M SUPER 19526 E PLANS PREPARED FOR: PLANS PREPARED FOR: PLANS PREPARED BY: PLANS PREPARED BY: PL							

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7

DETAIL NOT USED

1

		NEW HAMON NEW HAMON SHELTON DOUGLAS KEISLING No. 18260 CENSED NAL ENG NAL ENG SULLOW HAMON SULLOW EF94D8A5B80B407	/2024						
		ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01 ENGINEER: PE#: D SDK SHELTON D. KEISLING 18260 E TMS TERRANCE M. SUPER 10926 E	191 ISCIPLINE: LECTRICAL LECTRICAL		ШШ				
FINISH FINISH SURFACE, AC PAVING CONCRETE, GRASS, ETC.									
					™				
RNING ELECTRICAL TAPE BACKFILL									
		PLANS PREPARED BY:							
LL		 DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISH PROPERTY OF SSC, INC. AND IS LENT TO THEIR CONFIDENTIAL USE ONLY, AND IN THE LOAN OF THIS DRAWING, THE BORRO AGREES TO RETURN IT UPON REQUEST. WILL NOT BE REPRODUCED, COPIED, LI DISPOSED OF DIRECTLY OR INDIRECTLY PURPOSE OTHER THAN FOR WHICH SUBMITTALS: 	ed and is The Borr Consider Ower Pro And Agrei Ent or ot , Nor Usei It is furni	THE SC OWER ATION MISES ES THA HERWI O FOR SHED.	OLE FOR I OF AND AT IT ISE ANY				
, NUMBER, AND SIZES NS		DESCRIPTION ISSUED FOR REVIEW ISSUED FOR PERMITTING REVISED PER AHJ COMMENTS	DATE 09/20/24 09/25/24 11/15/24	BY IBA IBA	REV A 0 1				
		APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUTH)							
		AGI-INA-NH-(0001						
		1600 WOODBUR PORTSMOUTH, N	Y AVI H 038	E 01 T #: -					
	2	ELECTRICAL DETAILS (2 OF 2)	E E	-3.	1				

GENERAL REQUIREMENTS	SITE CLEARING
PART 1: GENERAL	PART 1: GENERA
<u>1.1 INTENT</u> :	1.1 SUMMARY:
A. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION. PLANS ARE	A. PROVIDE SITE- CONTRACT DO SILTATION CON
B. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF	<u>1.2 QUALITY ASSURA</u> A. COMPLY WITH
SHOWN, INDICATED OR SPECIFIED IN BOTH. C. THE INTENTION OF DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIDULATED IN THE CONTRACT	B. SITE PROTECTI COMMENCEMEN
D. CONFLICTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE ON THE DOCUMENTS. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER OR THEIR AGENT FOR CONSIDERATION.	C. AVOID DAMAGE AND SHRUBS EXISTING FACII DAMAGED BY
1.2 LICENSING REQUIREMENTS:	D. ANY AND ALL PROHIBITED FF
A. THE CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND MAINTAINING ALL APPLICABLE LICENSES AND BONDS.	STORM DRAINS
1.3 STORAGE:	2.1 MATERIALS:
A. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION THAT DOES NOT OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUEACTURED	A. TREE PROTECT MATERIALS SU
RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.	PART 3: EXECUT
<u>1.4 CLEAN UP</u> :	3.1 SITE CLEARING C
A. THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH AT ALL TIMES.	A. PROTECTION O IMPROVEMENTS CONSTRUCTION
A ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND	B. TRIMMING OF
FEDERAL REGULATIONS.	C. CLEARING AND
PART 2. FRODUCTS - NOT AFFLICADLE TO THIS SECTION	
PART 3: EXECUTION - NOT APPLICABLE TO THIS SECTION	D. TOPSOIL STRIF
END OF SECTION	E. TEMPORARY E
	F. TEMPORARY P AND MONUMEN
	G. WATERING OF
	H. REMOVAL AND
	I. MAINTAIN ALL TIMES.
	J. PROVIDE AND AND SIMILAR I ENTIRE PERIOD OF THE WORK
	3.2 CLEARING:
	A. PREVENT DAM/ ON AND OFF REMAIN. DO N OF EXISTING T PROVIDE AND TREES TO REM
	B. WATER VEGETA EXPOSED ROO CUT PLANT SL
	C. REPAIR OR RE DAMAGED. REM SATISFACTORY WEEDS ON SIT
	D. COMPLETELY F THOSE INDICAT BELOW FINISH REMOVE ABAN
	E. PREVENT EROS CONTROL WINE FROM SITE AN CONTAINED BY

F. EXCEPT WHER RESULTING FR SUITABLE FILL

3.3 EROSION CONTR

A. PROVIDE ERO

<u>G/EROSION_CONTROL</u> RAL	AND STATE REQUIREMENTS. END OF SECTION
E-CLEARING AS REQUIRED TO COMPLETE WORK AS SHOWN ON OCUMENTS INCLUDING CLEARING, GRUBBING, STRIPPING, EROSION AND ONTROL, AND PROTECTION OF LANDSCAPE MATERIALS DESIGNATED TO ED DURING CONSTRUCTION.	
H GOVERNING CODES AND REGULATIONS.	
CTION: PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM ENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT	
GE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, S DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT CILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING (THE WORK.	
L WASTE MATERIALS (E.G., CONCRETE WASTE) AND SOIL ARE FROM BEING DISCHARGED OFF OF THE WORK SITE AND/OR ENTERING NS. UCTS	
CTION, EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL SUITABLE FOR SITE CONDITIONS.	
JTION	
<u>OPERATIONS</u> : OF EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE ITS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY ON ACTIVITIES.	
F EXISTING TREES AND VEGETATION AS RECOMMENDED BY ARBORIST CTION DURING CONSTRUCTION ACTIVITIES.	
ND GRUBBING OF STUMPS AND VEGETATION, AND REMOVAL AND F DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.	
RIPPING AND STOCKPILING.	
EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL.	
PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, IENTS.	
F TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.	
ID LEGAL DISPOSAL OF CLEARED MATERIALS.	
L EXISTING FENCING AND GATES TO MAINTAIN A SECURE SITE AT ALL	
D MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS R DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE OD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION RK.	
MAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN, INCLUDING SITE. PROTECT EXISTING TREES AND VEGETATION INDICATED TO NOT STOCKPILE MATERIALS AND RESTRICT TRAFFIC WITHIN DRIP LINE TREES TO REMAIN OR THAT INTERFERE WITH ACCESS TO SITE. D MAINTAIN TEMPORARY GUARDS TO ENCIRCLE TREES OR GROUPS OF REMAIN; OBTAIN APPROVAL BEFORE BEGINNING WORK.	
TATION AS REQUIRED TO MAINTAIN HEALTH. COVER TEMPORARILY DOTS WITH WET BURLAP AND BACKFILL AS SOON AS POSSIBLE. COAT SURFACES WITH APPROVED EMULSIFIED ASPHALT PLANT COATING.	
REPLACE VEGETATION DESIGNATED FOR REUSE, WHICH HAS BEEN EMOVE HEAVY GROWTHS OF GRASS BEFORE STRIPPING. STOCKPILE Y TOPSOIL CONTAINING NO LARGE STONES, FOREIGN MATTER AND SITE FOR REUSE.	
REMOVE ALL IMPROVEMENTS, STUMPS AND DEBRIS EXCEPT FOR CATED TO REMAIN. REMOVE BELOW GRADE IMPROVEMENTS AT LEAST 12" SH GRADE SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION. ANDONED MECHANICAL AND ELECTRICAL WORK AS REQUIRED.	
OSION AND SILTATION OF STREETS, CATCH BASINS AND PIPING. NDBLOWN DUST. REMOVE WASTE MATERIALS AND UNSUITABLE SOIL AND DISPOSE OF IN A LEGAL MANNER. ALL MATERIAL SHALL BE BY APPROPRIATE CONTROLS.	
TRE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH LL AND COMPACT AS REQUIRED.	
ROL: OSION AND SILTATION CONTROL AS REQUIRED TO MEET ALL LOCAL	

STAMP:			
	/2024		
NEW HAND			
SHELTON DOUGLAS			
· KEISLING			
TO THE CENSED IN			
Classified and Annual ENGLASSIFIED			
EF94D8A5B80B407			
PE CERTIFICATE OF AUTHORIZATION #0	1191		
ENGINEER: PE#: [DISCIPLINE	:	
SDK SHELTON D. KEISLING 18260 E		L	Ē
			тм
PLANS PREPARED FOR:			
AGI			
PLANS PREPARED BY:			
	•		
330	4		
DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISH	ED AND IS	THE S	OLE
PROPERTY OF SSC, INC. AND IS LENT TO THEIR CONFIDENTIAL LISE ONLY, AND IN			
THE LOAN OF THIS DRAWING, THE BORR	OWER PRO		
WILL NOT BE REPRODUCED, COPIED, L		THERW	ISE
DISPOSED OF DIRECTLY OR INDIRECTLY PURPOSE OTHER THAN FOR WHICH	', NOR USE IT IS FURI	D FOR	ANY
SUBMITTALS:			
DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/20/24	IBA	A
ISSUED FOR PERMITTING	09/25/24	IBA	0
REVISED PER AHJ COMMENTS	11/15/24	IBA	1
		 	
		<u> </u>	
APPLICANT SITE NAME:			
WHOLE FOOD (POR'	TSMC) []T	$_{\rm H^{\prime}}$]
			••/
		_	
APPLICANT SITE NUMBER:			
AGI_INA_NH	0001		
	T 7 AT -		
1600 WOODBUR	YAV	E	
PORTSMOUTH, N	IH 038	301	
		-	
SHEET DESCRIPTION:	T	⊨I#:■	
SPECIFICATIONS		ר ח	
(1 OF 5)	 S	۲- Ι	.0

CAST-IN-PLACE-CONCRETE 2.2 SLUMP: A. THE MAXIMUM PART 1: GENERAL PLACED IN FOR 1.1 SUMMARY: B. THE DETERMINA A. FURNISH AND INSTALL ALL CAST-IN-PLACE CONCRETE, REINFORCING AND **2.3 MIXING:** ACCESSORIES, AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. A. THE CONTRACTO <u>1.2 SUBMITTALS:</u> CONFORMANCE A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION 2.4 MIXTURES: INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED. A. THE CONCRETE B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, THE REQUIREME DETAILS OF CONSTRUCTION. CONNECTIONS. AND RELATIONSHIP WITH ADJACENT ADMIXTURE COM CONSTRUCTION. 212.1R. ADMIXT THE USE OF C 1. SHOP DRAWINGS SHALL BE PREPARED AND STAMPED BY A QUALIFIED CHLORIDE IS PI ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT. **B. ADMIXTURES SH** C. MIX DESIGN: SUBMIT FOR APPROVAL MIX DESIGN PROPOSED FOR USE. C. ACCEPTABLE M/ **1.3 QUALITY ASSURANCE:** 1. W.R. GRACE A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR 2. SIKA GROUF SERVICE FOR A MINIMUM OF THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER. HANDLE. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S 2.5 CURING COMPOUN INSTRUCTIONS. A. CURING COMPO B. TESTING: EMPLOY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO OWNER TO AND B AND AST DESIGN CONCRETE MIXES AND TO PERFORM MATERIAL EVALUATION TESTS. PROVIDE 4 AND 28 DAY CYLINDER TESTS. COMPLY WITH ASTM C 143. C 173. C 31 AND PART 3: EXECUTION C 39. 3.1 GENERAL: C. STANDARDS A. CONSTRUCT AND 1. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. B. COLD-WEATHER 2. ACI 318. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. AND CRSI MANUAL OF STANDARD PRACTICE. C. HOT-WEATHER PART 2: PRODUCTS 3.2 INSERTS. EMBEDDI 2.1 MATERIALS: A. CONTRACTOR S ELECTRICAL DR/ A. MATERIALS SHALL CONFORM TO THE RESPECTIVE PUBLICATIONS AND OTHER OTHER ITEMS 1 **REQUIREMENTS SPECIFIED HEREIN.** COORDINATE TH Β. B. CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. CEMENT MAY BE **RECESSES. SLO** BAGGED OR BULK. CEMENT SHALL BE USED FROM ONLY ONE MILL THROUGHOUT EMBEDDED. **PROJECT.** EMBEDDED ITEM С. C. FINE AGGREGATE: FINE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL AND PLUMBNES BE UNIFORMLY GRADED, CLEAN, SHARP, WASHED MATERIAL OR CRUSHED SAND, **REFERENCE BEI** FREE FROM ORGANIC IMPURITIES. D. EMBEDDED ITEM D. COURSE AGGREGATE: COURSE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND MOVEMENT DUR SHALL BE NATURAL WASHED GRAVEL OR WASHED CRUSHED ROCK HAVING HARD. FORMING A PAR STRONG, DURABLE PIECES, FREE FORM ADHERENT COATINGS, THE MAXIMUM SIZE ANCHORING. PF OF COARSE AGGREGATE SHALL BE 3/4" IN ACCORDANCE WITH THE REQUIREMENTS REQUIRED TO M OF ASTM C33-08; GRADATION SIZE NO. 67. 3.3 REINFORCEMENT F E. WATER: WATER USED IN THE CONCRETE MIX SHALL BE POTABLE, CLEAN, AND FREE FROM OILS, ACIDS, SALTS, CHLORIDES, ALKALI, SUGAR, VEGETABLE, OR REINFORCEMEN OTHER INJURIOUS SUBSTANCES. DRAWINGS AND ALL INTERSECTI F. REINFORCING STEEL: ALL BARS ARE TO BE NEW BILLET STEEL CONFORMING TO ASTM A615. GRADE 60. BENDING DETAILS ARE TO CONFORM TO THE STANDARDS B. ACCURATELY PO OF ACI 318. DISPLACEMENT **CONSOLIDATION** G. FORMS: THE FORMS SHALL BE TRUE AND RIGID AND CONFORM TO SHAPE, LINE BOLSTERS. SPA AND DIMENSIONS AS SHOWN ON THE DRAWINGS. ALL FORMS SHALL BE RIGIDLY CONSTRUCTED, BRACED AND TIED TO PREVENT ANY DEFLECTION OR DISPLACEMENT C. SPLICES OF RE DURING PLACING OF CONCRETE. ALL EXPOSED CORNERS AND EDGES SHALL HAVE SPLICES SHALL 3/4" FILLETS. ALL JOINTS SHALL BE MORTAR TIGHT; OPEN JOINTS SHALL BE ACROSS JOINTS SEALED AS REQUIRED.

H. CONCRETE:

- 1. PROPORTIONING: CONCRETE SHALL CONFORM TO THE FOLLOWING:
 - a. CEMENT-6 SACKS PER CUBIC YARD, MINIMUM
 - b. WATER SHALL BE KEPT TO AN ABSOLUTE MINIMUM TO MAINTAIN SLUMP AS SPECIFIED
 - c. AGGREGATE; SAND FACTOR SHALL BE AS REQUIRED TO GIVE THE BEST WORKABLE MIX WITHIN THE RANGE OF 46% TO 52% OF TOTAL AGGREGATE.
- d. STRENGTH-4,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE
- e. ALL CONCRETE SHALL CONTAIN A WATER-REDUCING AGENT AND SHALL HAVE THREE (3) TO FIVE (5) PERCENT ENTRAINED AIR.

D. LOCATE REINFO THE DRAWINGS. E. WELDING OF AN CROSSING BARS

3.4 CONCRETE PLACE

A. PRIOR TO PLAC THOROUGHLY I TEMPORARY BR UTILITIES PROPI CORRECT POSIT SHALL BE SECU AND DIRT SHALL BE CLEANED AND ALL STANDING WATER AND OTHER FOREIGN MATTER REMOVED.

<u>LUMP</u> :	B. PLACING CONCRETE SHALL BE IN ACCORDANCE SHALL BE CARRIED OUT AT SLICH A RATE TH
THE MAXIMUM SLUMP SHALL NOT EXCEED 3" EXCEPT FOR CONCRETE TO BE PLACED IN FORMS 8" WIDE OR LESS, WHERE THE MAXIMUM SLUMP SHALL BE 4".	PLACED IS STILL PLASTIC AND INTEGRATED WI CONCRETING, ONCE STARTED, SHALL BE CARR OPERATION UNTIL THE SECTION IS COMPLETED
THE DETERMINATION OF SLUMP SHALL CONFORM TO ASTM C143.	ALLOWED.
XING:	C. CONSTRUCTION JOINTS: USE KEYWAYS, CONTIN
THE CONTRACTOR SHALL USE READY-MIXED CONCRETE, MIXED AND DELIVERED IN CONFORMANCE WITH ASTM C94.	D. EXPANSION JOINTS: FOR EXTERIOR WORK, LOC APPROVED LOCATIONS. PROVIDE SMOOTH DOW HORIZONTAL MOVEMENT AND NO VERTICAL SHI
<u>XTURES</u> :	E. ISOLATION JOINTS: PROVIDE BETWEEN SLABS A
THE CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-260 AND ACI 212.1R AND A WATER-REDUCING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-494 AND ACI 212.1R. ADMIXTURES SHALL BE PURCHASE AND BATCHED IN LIQUID SOLUTION. THE USE OF CALCIUM CHLORIDE OR AN ADMIXTURE CONTAINING CALCIUM CHLORIDE IS PROHIBITED.	COLUMNS AND STRUCTURAL WALLS. F. CONTROL JOINTS: PROVIDE SAWN OR TOOLED STRIPS; DEPTH EQUAL TO 1/4" SLAB THICKNE REQUIRED AND APPROVED.
ADMIXTURES SHALL BE OF THE SAME MANUFACTURER TO ASSURE COMPATIBILITY.	G. ALL CONCRETE SHALL BE THOROUGHLY CONSO VIBRATION, SPADING, RODDING, OR FORKING D
ACCEPTABLE MANUFACTURERS ARE:	AND DEPOSITING IN ACCORDANCE WITH ACI 30 WORKED AROUND REINFORCEMENT, EMBEDDED
1. W.R. GRACE 3. MASTER BUILDERS	THE FORMS SO AS TO ELIMINATE ALL AIR ANI
2. SIKA GROUP 4. EUCLID CHEMICAL CO	
JRING COMPOUNDS:	
CURING COMPOUNDS SHALL CONFORM TO ASTM C309. TYPE 1. ID. CLASS A	
AND B AND ASTM C171 AS APPLICABLE	A. FINISHING OF ALL SLABS SHALL BE IN ACCOR WITH A MINIMUM OF THREE TROWELINGS.
3: EXECUTION	1. INTERIOR SLAB FINISH TOLERANCE AS MEA
ENERAL:	AND FOR LEVEL, FL=15. THE MINIMUM LC
CONSTRUCT AND ERECT FORMWORK IN ACCORDANCE WITH ACI 301 ACI 347.	AND FOR LEVEL, FL=10.
COLD-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.	2. EXTERIOR SLAB FINISH SHALL BE FLAT (FI MINIMUM OF 1/8" PER FOOT TO A MAXIM
HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.	PONDING WATER.
SERTS. EMBEDDED COMPONENTS AND OPENINGS:	B. SURFACES OF SLABS SHALL RECEIVE TWO CO.
CONTRACTOR SHALL CHECK ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS AND OTHER ITEMS TO BE BUILT INTO THE CONCRETE WORK	C. ABOVE GRADE WALL SURFACES SHALL HAVE A IN CHAPTER 10 OF ACI 301.
OCORDINATE THE WORK OF OTHER OFOTIONS IN FORMULA AND OFTING OPENINGS	<u>3.6 CURING</u> :
ENDEDDED ITEMS SHALL DE SET ACCUDATELY IN LOCATION ALICNMENT. ELEVATION	A. FRESHLY DEPOSITED CONCRETE SHALL BE PRO AND EXCESSIVELY HOT OR COLD TEMPERATUR MINIMAL MOISTURE LOSS AT A RELATIVELY CON OF TIME NECESSARY FOR THE HYDRATION OF
AND PLUMBNESS. LOCATE AND MEASURE FROM ESTABLISHED SURVEYED REFERENCE BENCHMARKS.	HARDENING OF THE CONCRETE. B. CURING SHALL IMMEDIATELY FOLLOW THE FINIS
EMBEDDED ITEMS SHALL BE ANCHORED INTO PLACE AS REQUIRED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT AND CONSOLIDATION. COMPONENTS FORMING A PART OF A COMPLETE ASSEMBLY SHALL BE ALIGNED BEFORE ANCHORING. PROVIDE TEMPORARY BRACING. ANCHORAGE. AND TEMPLATES AS	KEPT CONTINUOUSLY MOIST AT LEAST OVERNIC INITIAL CURING. BEFORE THE CONCRETE HAS ACCOMPLISHED BY ONE OF THE FOLLOWING M
REQUIRED TO MAINTAIN THE SETTING AND ALIGNMENT.	1. PONDING OR CONTINUOUS SPRINKLING
EINFORCEMENT PLACEMENT:	2. ABSORPTIVE MAT OR FABRIC KEPT CONTIN
REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH CHECKED AND RELEASED DRAWINGS AND ACI 301 AND ACI 315; SECURELY WIRE-TIE REINFORCEMENT AT ALL INTERSECTIONS.	3. NON-ABSORPTIVE FILM (POLYETHYLENE) O SURFACE
ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST	4. SAND OR OTHER COVERING KEPT CONTINU
DISPLACEMENT FROM FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT AND CONSOLIDATION. REINFORCING SHALL BE SUPPORTED ON METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS.	5. CONTINUOUS STEAM (NOT EXCEEDING 150 6. SPRAYED-ON CURING COMPOUND APPLIED DEPRENDICULAR DIRECTIONS
SPLICES OF REINFORCING BARS SHALL BE CLASS B UNLESS SHOWN OTHERWISE. SPLICES SHALL BE STAGGERED. FULL DEVELOPMENT LENGTH SHALL BE PROVIDED ACROSS JOINTS.	C. THE FINAL CURING SHALL CONTINUE UNTIL TH FRACTION THEREOF, NOT NECESSARILY CONSER
LOCATE REINFORCING TO PROVIDE CONCRETE COVER AND SPACING SHOWN ON THE DRAWINGS. MINIMUM COVER SHALL BE AS REQUIRED BY ACI 318.	SEVEN (7) DAYS. CONCRETE SHALL NOT BE F CURING PERIOD. RAPID DRYING AT THE END (PREVENTED.
WELDING OF AND TO ANY REINFORCING MATERIALS INCLUDING TACK WELDING OF CROSSING BARS IS STRICTLY PROHIBITED. BARS SHALL BE FREE OF FLAKY OR SCALY RUST AT THE TIME THE CONCRETE IS PLACED.	END OF SECTION
DNCRETE_PLACEMENT:	
PRIOR TO PLACING CONCRETE, FORMS AND REINFORCEMENT SHALL BE THOROUGHLY INSPECTED. ALL WOOD CHIPS, DIRT, ETC., AS WELL AS ALL TEMPORARY BRACING, TIES, AND CLEATS REMOVED, AND ALL OPENINGS FOR UTILITIES PROPERLY BOXED, ALL FORMS SHALL BE PROPERLY SECURED IN THEIR CORRECT POSITION AND MADE TIGHT. ALL REINFORCING AND EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATIONS ALL OLD AND DRY CONCRETE	

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	PLANS PREPARED BY: PLANS PREPARED BY: THIS DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND I PROPERTY OF SSC, INC. AND IS LENT TO THE BOF THEIR CONFIDENTIAL USE ONLY, AND IN CONSID THE LOAN OF THIS DRAWING, THE BORROWER PF AGREES TO RETURN IT UPON REQUEST AND AGF WILL NOT BE REPRODUCED, COPIED, LENT OR OF DISPOSED OF DIRECTLY OR INDIRECTLY, NOR US PURPOSE OTHER THAN FOR WHICH IT IS FUR- SUBMITTALS: DESCRIPTION DATE ISSUED FOR REVIEW 09/20/2 ISSUED FOR PERMITTING 09/25/2 REVISED PER AHJ COMMENTS 11/15/2 APPLICANT SITE NAME: WHOLE FOOD (PORTSMO AGI-INA-NH-0001 SITE ADDRESS: 1600 WOODBURY AV PORTSMOUTH, NH 03 SHEET DESCRIPTION: SPECIFICATIONS (2 OF 5)	PLANS PREPARED BY: PLANS PREPARED BY: THIS DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE S PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER AGREES TO RETURN IT UPON REQUEST AND AGREES TH WILL NOT BE REPRODUCED. COPIED, LENT OR OTHERW DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED SUBMITTALS: DESCRIPTION DATE BY ISSUED FOR REVIEW 09/20/24 IBA ISSUED FOR PERMITTING 09/25/24 IBA REVISED PER AHJ COMMENTS 11/15/24 IBA AREVISED PER AHJ COMMENTS 11/15/24 IBA APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUT APPLICANT SITE NUMBER: AGI-INA-NH-0001 SITE ADDRESS: 1600 WOODBURY AVE PORTSMOUTH, NH 03801 SHEET DESCRIPTION: SHEET TESCRIPTION: SHEET DESCRIPTION: SHEET DESCRIP

<u>EART</u>	H MOVING/EXCAVATION/BACKFILLING SECTION	D.	COMPACT MA ASTM D 155
PART	1: GENERAL	F	PLACE ACCER
<u>1.1 SI</u> A.	UMMARY: PROVIDE EARTHWORK OPERATIONS INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING TRENICHING AND COMPACTION		MATERIALS CO DEPTH FOR M INDICATED AS
1.2 0	UALITY ASSURANCE COMPACTION:		1. STRUCTU
A.	UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENTS, AND WALKWAYS, 95%		
	MAXIMUM DENSITY, ASTM D 1557.		2. DRAINAGE DRAINAGE
	1. GRADING TOLERANCES:		3. COMMON
	a. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1".		4. SUBBASE
	b. KEEP SITE FREE FROM ANY PONDING WATER		MULTIPLE
	c. GRADING TOLERANCE FOR FILL UNDER BUILDING OR EQUIPMENT SLABS: PLUS OR MINUS 1/4" MEASURED WITH 10'-0" STRAIGHTEDGE.	F.	GRADE TO 1/ 1/4" IN 10'-
	2. TESTING: FIELD TESTING OF EARTHWORK AND COMPACTION SHALL BE PERFORMED BY OWNER'S INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.	G.	PROTECT NEV RE-GRADE SI APPEARANCE,
	3. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE OWNER OR HIS AGENT WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK AS	н.	CONTROL ER
	SPECIFIED AND/OR CALLED OUT BY THE CONSTRUCTION DOCUMENTS. PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY PLACEMENT OF CONCRETE OR BACKFILLING OF TRENCHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO	١.	CONTROL DU IMMEDIATELY FILTERS IN E
	REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.	J.	DISPOSE OF
	4. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES	<u>3.2 B</u>	ACKFILL:
	BY OWNER OR HIS AGENT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.	A.	AS SOON AS STRUCTURE, CAST-IN-PLA
PART	2: PRODUCTS		TO RESTORE
. <u>1 G</u>	ENERAL:		1. PRIOR TO BEEN REI
Α.	UTILITY TRENCH: PROVIDE WELL GRADED SAND (SW-SM) FROM BASE OF TRENCH TO MINIMUM ABOVE THE HIGHEST CONDUIT WITHIN TRENCH. REMAINDER OF TRENCH AREA CAN BE EITHER AB 3 OR CLEAN GRAVEL AS DESCRIBED HEREIN. COMPACT AS REQUIRED TO PREVENT SETTLING.		UNSUITAB 2. BACKFILL SELECT (
В.	ACCESS ROADS: 6" <u>MINIMUM</u> (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPACTED AB 3 OR APPROVED EQUAL (UNWASHED CRUSHED LIMESTONE GRAVEL CONSISTING OF MULTIPLE ACCRECATE SIZES ROCK CHIPS AND ROCK DUST.)		HORIZONT HAND OP PLACED I
C.	COMPOUND (NEW CONSTRUCTION): 2" THICK CLEAN GRAVEL, WITH 100% PASSING THROUGH A 1" SIEVE OVER 4" COMPACTED AB 3.		3. IF THE D SUCCEED REQUIREN FNGINFER
D.	COMPOUND (EXISTING): PROVIDE CLEAN GRAVEL WITH 100% PASSING THROUGH A 1" SIEVE AS REQUIRED TO BRING COMPOUND TO PROPER GRADE OR REPAIR	B.	NECESSAF
-	EXISTING DAMAGED AREAS.		DENSITY AS
E.	STRUCTURAL FILL: PROVIDE 4" MINIMUM AB 3 BELOW STRUCTURES OR SLABS	<u>3.3 T</u>	RENCH EXCAVA
<u>2.2 M</u>		A.	UTILITY TRENG
A.	GEOTEXTILE FABRIC: PROVIDE MIRAFI 500X OR APPROVED EQUAL.		SHORING, SH SLOUGHING (
В.	PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6" WIDE WITH A MINIMUM THICKNESS OF 0.004". TAPE SHALL HAVE	B.	EXTEND THE THE OUTER-
	INTEGRAL WIRES OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3'-O" DEEP. THE CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR OTHER MEANS TO PROTECT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION	C.	WHEN SOFT, ENCOUNTEREI THAN 12" BE BEDDING MAT
PART	3. EXECUTION	<u>3.4</u> T	RENCH BACKFI
5.1 IN	STALLATION:	A.	PROVIDE GRA
Δ	PRIOR TO FXCAVATING. THOROLIGHLY FYAMINE AREA TO RE FYCAVATED AND /OP		
~.	TRENCHED TO VERIFY THE LOCATIONS OF FEATURES ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE OF ANY STRUCTURE NOT SHOWN THAT MIGHT INTERFERE WITH NEW CONSTRUCTION. NOTIFY THE OWNER OR HIS AGENT OF ANY	C.	CONDUCT UT
	OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.	D.	PLACE GRANI
B.	EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE		CONDUITS IN

- REGARDLESS OF MATERIALS. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS REQUIRED.
- C. MAINTAIN STABILITY OF EXCAVATIONS; COORDINATE SHORING AND BRACING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE.

D.	COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557 BY AERATION OR WETTING TO 95% OF MAXIMUM DRY DENSITY TO SUITABLE DEPTH.	F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACI IN 8" MAXIMUM LOOSE THICKNESS LIFTS TO R SURFACE GRADE.
E.	PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:	G. COMPACT FINAL TRENCH BACKFILL TO A DENS EXISTING UNDISTURBED MATERIAL ADJACENT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DE STANDARD PROCTOR TEST, ASTM D 698.
	1. STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.	3.5 AGGREGATE ACCESS ROAD (IF APPLICABLE):
	2. DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.	A. CLEAR, GRUB, STRIP AND EXCAVATE FOR ACCE GRADES INDICATED ON DRAWINGS. SCARIFY TO ALL HOLES, RUTS, SOFT PLACES AND OTHER
	3. COMMON FILL: USE UNDER UNPAVED AREAS.	B. THE ENTIRE SUBGRADE SHALL BE COMPACTED MAXIMUM DRY DENSITY AS PROVIDED BY THE
	4. SUBBASE MATERIAL: USE UNDER GENERAL COMPOUND AREA. IF THICKNESS OF LIFT IS GREATER THAN 6 SPREAD AND COMPACT THE CRUSHED STONE IN MULTIPLE LIFTS OF EQUAL THICKNESS WITH A MAXIMUM LIFT OF 6"	1557. C. AFTER PREPARATION OF THE SUBGRADE IS CO
F.	GRADE TO $1/2$ " ABOVE OR BELOW REQUIRED SUBGRADE AND TO A TOLERANCE OF $1/4$ " IN $10'-0$ ".	(MIRAFI 500X) SHALL BE INSTALLED TO THE L ROLLING THE FABRIC OUT LONGITUDINALLY ALC NOT BE DRAGGED ACROSS THE SUBGRADE. PL OPERATION AS SMOOTHLY AS POSSIBLE
G.	PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RE-COMPACT AND RE-GRADE SETTLED, DISTURBED AND DAMAGED AREAS TO RESTORE QUALITY, APPEARANCE, AND CONDITION.	1. OVERLAPS PARALLEL TO THE ROADWAY WIL CENTERLINE AND AT LOCATIONS BEYOND T
н.	CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO AREAS.	THE SHOULDER. PARALLEL OVERLAPS SHALL BE LOCATE
Ι.	CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.	2. TRANSVERSE OR PERPENDICULAR OVERLAP OVERLAP IN THE DIRECTION OF THE AGGRI ON TOP) AND SHALL HAVE A MINIMUM LEM
J.	DISPOSE OF WASTE AND UNSUITABLE MATERIALS OFF-SITE IN A LEGAL MANNER.	3. ALL OVERLAPS SHALL BE PINNED WITH ST
<u>2</u> B	ACKFILL:	12" LONG TO INSURE POSITIONING DURING LONGITUDINAL SEAMS AT 25'-0" O.C. AND
Α.	AS SOON AS PRACTICAL AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.	D. THE AGGREGATE BASE AND SURFACE COURSES LAYERS OF AT LEAST 6" (COMPACTED) THICKN GEOTEXTILE FARRIC AND SHALL RE END-DUME
	1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL HAVE BEEN REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.	END OF THE FABRIC OR OVER PREVIOUSLY PL SHALL EQUIPMENT BE PERMITTED ON THE RO MATERIAL COVERING THE FABRIC.
	2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL, WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8" LOOSE THICKNESS. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH.	E. THE AGGREGATE SHALL BE IMMEDIATELY COMPA THE MAXIMUM DRY DENSITY AS PROVIDED BY WITH A TAMPING ROLLER, A PNEUMATIC-TIRED MACHINE OR ANY COMBINATION OF THE ABOVE A FINAL ROLLING WITH A THREE-WHEEL OR TA
	3. IF THE DENSITY TESTING INDICATES THAT THE SPECIFIED DENSITY, THE	3.6 FINISH GRADING:
	SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS AUTHORIZED BY THE GEO—TECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY TO OBTAIN PROPER COMPACTION.	A. PERFORM ALL GRADING TO PROVIDE SMOOTH, ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCT COMPATIBLE WITH ALL SURROUNDING TOPOGRA
В.	COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.	B. UTILIZE SATISFACTORY FILL MATERIALS RESULTI THE CONSTRUCTION OF FILLS, EMBANKMENTS REMOVED UNSUITABLE MATERIALS.
<u>3 T</u>	RENCH EXCAVATION:	C. ACHIEVE FINISHED GRADE BY PLACING A MINIM
Α.	UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER OR HIS AGENT. PROVIDE	D REPAIR ALL ACCESS ROADS AND SURROUNDING
	SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.	OF THIS WORK TO THEIR ORIGINAL CONDITION.
Β.	EXTEND THE TRENCH WIDTH A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE OUTER-MOST CONDUIT.	END OF SECTION
C.	WHEN SOFT, YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12" BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.	
<u>4 T</u>	RENCH BACKFILL:	
Α.	PROVIDE GRANULAR BEDDING MATERIAL (WELL GRADED SAND) IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.	
В.	NOTIFY THE OWNER OR HIS AGENT 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" UNCOMPACTED LIFTS UNTIL 6" OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACES AROUND CONDUITS.	
E.	PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.	

	STAMP:	
CE AND COMPACT BACKFILL MATERIAL RESTORE THE REQUIRED FINISHED		
SITY EQUAL TO OR GREATER THAN TO THE TRENCH BUT NO LESS THAN DENSITY AS PROVIDED BY THE	NEW HANNER SHELTON	
	i DOUGLAS i KEISLING	
CESS ROAD TO THE LINES AND O A DEPTH OF 6" AND PROOF-ROLL DEFECTS.	Decesion PONAL ENGINE	
D TO NOT LESS THAN 95% OF THE STANDARD PROCTOR TEST, ASTM D		
OMPLETE, THE GEOTEXTILE FABRIC LIMITS INDICATED ON DRAWINGS BY ONG ROADWAY. THE FABRIC SHALL PLACE THE ENTIRE ROLL IN A SINGLE	ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u> PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE:	
ILL BE PERMITTED AT THE THE ROADWAY SURFACE WIDTH. NO TED BETWEEN THE CENTERLINE AND ALL BE A MINIMUM OF 3'-0" WIDE.	SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL	Ē
PS AT THE END OF A ROLL SHALL REGATE PLACEMENT (PREVIOUS ROLL ENGTH OF 3'-0".		
TAPLES OR NAILS BETWEEN 10" AND G PLACEMENT OF AGGREGATE. PIN D TRANSVERSE SEAMS EVERY 5'-0"		
ES SHALL BE CONSTRUCTED IN NESS. AGGREGATE TO BE PLACED ON IPED ON THE FABRIC FROM THE FREE PLACED AGGREGATE. AT NO TIME ROADWAY WITH LESS THAN 6" OF	PLANS PREPARED FOR:	
PACTED TO NOT LESS THAN 95% OF THE PROCTOR TEST, ASTM D 1557 D ROLLER, OR WITH A VIBRATORY Æ. THE TOP LAYER SHALL BE GIVEN TANDEM ROLLER.		
	PLANS PREPARED BY:	
, EVEN SURFACE DRAINAGE OF THE ICTION. GRADING SHALL BE APHY AND STRUCTURES.		
TING FROM THE EXCAVATION WORK IN AND FOR THE REPLACEMENT OF	DRAWING NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE PROPERTY OF SSC. INC. AND IS LENT TO THE BORROWE	SOLE R FOR
MUM OF 6" OF AB 3 ON TOP OF	THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATIO THE LOAN OF THIS DRAWING, THE BORROWER PROMISE AGREES TO RETURN IT UPON REQUEST AND AGREES TH WILL NOT BE REPRODUCED, COPIED, LENT OR OTHER DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR	ON OF S AND HAT IT WISE R ANY
NG AREAS USED DURING THE COURSE		D.
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	WHOLE FOOD (PORTSMOUT	TH)
	APPLICANT SITE NUMBER: AGI-INA-NH-0001	
	SITE ADDRESS:	
	1600 WOODBURY AVE PORTSMOUTH, NH 03801	
	SHEET DESCRIPTION:	
	SPECIFICATIONS (3 OF 5) SP-1	1.2

ELECTRICAL	
PART 1: GENERAL	
1.1 GENERAL CONDITIONS:	2.2 MATERIALS AND EQ
A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.	A. CONDUIT: 1. RIGID GALVA
B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION.	LACQUERED 2. FLEXIBLE ME
C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.	COATED FOR 3. CONDUIT CL IRON. ALL F
1.2 LAWS. REGULATIONS. ORDINANCES. STATUTES AND CODES:	4. NON-METALI
A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES	HEAVY-WALL THE MANUFA
1.3 REFERENCES	1. WIRE AND C
A. THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE	RESISTANT T THHN/THWN
DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS	2. #10 AWG AN LARGER CON
1 NEC (NATIONAL ELECTRICAL CODE)	J. SOLDERLESS HIGH-STREN
1. NEC (NATIONAL ELECTRICAL CODE) 2. ANSI/IEEE (AMERICANI NIATIONIAL STANDARDS INISTITUTE)	USED.
3 IFFE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENCINEERS)	4. SUPPORT GF MAGNETIC, T
4 ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)	CABLE DEAD
5 ICFA (INSULATED CABLE ENGINEERS ASSOCIATION)	C. DISCONNECT SW
6. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)	1. DISCONNECT QUICK-BREA
7. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)	FURNISHED
8. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)	D SYSTEM CROUNE
9. UL (UNDERWRITERS LABORATORIES, INC.)	1. GROUNDING
1.4 SCOPE OF WORK:	INDICATED, E STRANDED II
A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED	2. GROUND BUS SECTION.
B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.	LABELED AS TWO-HOLE CONNECTION
C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.	4. EXOTHERMIC SELECTED F
D. THE CONTRACTOR SHALL FURNISH TO THE OWNER, CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.	5. GROUND RO CORE AND I
PART 2: PRODUCTS	CORE, 3/4"
2.1 GENERAL:	E. OTHER MATERIAL
A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.	SPECIFICALLY OPERATIONAL
B. ALL MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.	
C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.	
D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.	

QUIPMENT:

ANIZED STEEL CONDUIT (RGS) SHALL BE HOT-DIP GALVANIZED OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR INSIDE IN ADDITION TO GALVANIZING.

IETAL CONDUIT SHALL BE GALVANIZED, ZINC-COATED STEEL, PVC R OUTDOOR APPLICATIONS.

LAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE FITTINGS SHALL BE COMPRESSION TYPE AND WATERTIGHT.

LIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC, RIGID WITH SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY ACTURER.

_E:

CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE N-2, 600 VOLT, SIZES AS INDICATED, #12 AWG MINIMUM.

AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND NDUCTORS SHALL BE STRANDED.

S, PRESSURE-TYPE CONNECTORS CONSTRUCTED OF NGTH, NON-CORRODIBLE, TIN-PLATED COPPER DESIGNED TO IGH-PULLOUT STRENGTH AND HIGH CONDUCTIVITY JOINTS SHALL BE

GRIPS SHALL BE SINGLE WEAVE, CLOSED MESH, HIGH-GRADE, NON-TIN-COATED BRONZE CAPABLE OF SUPPORTING TEN TIMES THE WEIGHT, HUBBELL KELLEMS OR APPROVED EQUAL.

WITCHES:

SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, AK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCKED IN CLOSED POSITION, RATING AS INDICATED, UL LABELED IN NEMA 3R ENCLOSURE, SQUARE D CLASS 3110 OR APPROVED

IDING:

CONDUCTOR SHALL BE SOLID TINNED BARE COPPER, SIZE AS EXCEPT ABOVE GROUND GROUNDING CONDUCTORS SHALL BE NSULATED.

USSES SHALL BE GALVANIZED STEEL BARS OF RECTANGULAR CROSS

RS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND GROUNDING CONNECTORS FOR THE MATERIALS USED. USE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL

WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF RS AND OTHER ITEMS TO BE CONNECTED.

ODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO " × 10'-0".

LS:

ACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT LY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY AL SYSTEM AND PROPER INSTALLATION OF THE WORK.

NEW HAMBON IS A SHELTON DOUGLAS HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING No. 18260 HEISLING	2024		
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SHEET DESCRIPTION: SPECIFICATIONS (4 OF 5)	SHEE	et #: - 2-2	.0

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PART 3: EXECUTION	2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES. OR	C. TEST PROCEDURES:
3.1 GENERAL:	ACCESSIBLE RACEWAYS WITH PRESSURE-TYPE CONNECTORS.	1. ALL FEEDERS SHALL HAVE THEIR INSULATION T
A. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.	3. PULLING LUBRICANTS SHALL BE SOAPSTONE POWDER, POWDERED TALC, OR A COMMERCIAL PULLING COMPOUND. NO SOAP SUDS, SOAP FLAKES, OIL, OR GREASE SHALL BE USED, AS THESE MAY BE HARMFUL TO CABLE INSULATION. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CABLE TO	BEFORE CONNECTION TO DEVICES. THE CONDUCTION SHORT CIRCUITS AND GROUNDS. TESTING SHALL 1000V DC. INVESTIGATE ANY VALUES LESS THAT
B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND	AVOID SCORING THE CONDUIT.	2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING CONTINUITY AND PROPER POLARITY CONNECTION
CONSTRUCTION PERIODS.	4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES, EQUIPMENT, ETC. TO PERMIT MAKING A NEAT ARRANGEMENT, CARLES SHALL BE SECURED IN A MANNER TO AVOID	3. MEASURE AND RECORD VOLTAGES BETWEEN PH WIRES AND NEUTRALS SUBMIT A REPORT OF A
<u>3.2 LABOR AND WORKMANSHIP</u> :	TENSION ON CONDUCTORS OR TERMINALS, AND SHALL BE PROTECTED FROM MECHANICAL INJURY AND FROM MOISTURE. SHARP BENDS OVER CONDUIT	VOLTAGES.
THE ELECTRICAL SYSTEM SHALL BE DONE BY EXPERIENCED MECHANICS OF THE PROPER TRADES.	BUSHINGS ARE PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.	4. PERFORM GROUND TEST TO MEASURE GROUND SYSTEM USING THE IEEE STANDARD 3-POINT " PROVIDE PLOTTED TEST VALUES & LOCATION S
B. ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED	C. DISCONNECT SWITCHES:	IMMEDIATELY IF MEASURED VALUE IS OVER 5 C
PERFORMANCE.	1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUND AS INDICATED.	END OF SECTION
C. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.	D. GROUNDING:	END OF SPECIFICATION
3.3 COORDINATION:	1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE	
A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED FOUIPMENT DELIVERY SCHEDULE TO PREVENT	2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH	
UNNECESSARY DELAYS IN THE TOTAL WORK.	ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.	
A. CONDUIT:	3. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE	
1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS HEREIN	SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.	
SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4" NOMINAL SIZE SHALL BE USED.	4. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS IN ACCORDANCE WITH MANUEACTURED'S DURUSHED TOROUS	
2. PROVIDE RGS CONDUIT FOR ALL EXPOSED, EXTERIOR CONDUIT.	TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S	
3. PROVIDE SCHEDULE 40 PVC OR RGS CONDUIT BELOW GRADE, 1" MINIMUM, UNLESS NOTED OTHERWISE ALL 90 DEGREE BENDS TO ABOVE GRADE SHALL	COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.	
BE RGS. MINIMUM BURIAL DEPTH SHALL BE 24" CLEAR TO TOP OF CONDUIT, UNLESS NOTED OTHERWISE.	5. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE	
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION IS NOT	EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.	
OF MAINTENANCE. USE LIQUIDTIGHT, PVC COATED FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS.	6. ALL GROUND CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC—WELDED CONNECTIONS SHALL BE APPROVED BY THE	
5. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION	CONSTRUCTION INSPECTOR BEFORE BEING PERMANENTLY CONCEALED.	
TO EQUIPMENT MOUNTED ON SUPPORTS TO ALLOW FOR EXPANSION AND CONTRACTION.	7. APPLY CORROSION—RESISTANT FINISH TO FIELD CONNECTIONS, AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE COPPER—BASED "NO—OX" OR APPROVED EQUAL.	
6. A RUN OF CONDUIT BETWEEN BOXES OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE BOX OR FITTING. THE RADIUS OF BENDS SHALL	8. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS	
NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW.	9. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #6 AWG	
7. WHERE CONDUIT HAS TO BE CUT IN THE FIELD, IT SHALL BE CUT SQUARE WITH A PIPE CUTTER USING CUTTING KNIVES.	GROUNDING CONDUCTOR TO A GROUND BUS OR GROUNDING LUG IN ENCLOSURE.	
8. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF WIRE OR CABLE. CLEAR ALL BLOCKAGES AND REMOVE BURRS. DIRT. AND DEBRIS.	10. DIRECT BURIED GROUND CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" BELOW GRADE, UNLESS NOTED OTHERWISE.	
9. INSTALL PULL STRINGS IN ALL EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END WITH ITS DESTINATION.	11. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSULATED OR INSTALLED IN PVC CONDUIT.	
10. PROVIDE INSULATED GROUNDING BUSHINGS FOR ALL CONDUITS STUBBED INTO EQUIPMENT ENCLOSURES OR STUBBED OUT FOR FUTURE USE BY OTHERS.	12. INSTALL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.	
11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING	13. DRIVE GROUND RODS UNTIL TOPS ARE 30" BELOW FINAL GRADE.	
PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER, CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN	14. GROUNDING CONDUCTOR TO EQUIPMENT GROUND LUGS:	
MATERIALS THAT CANNOT BE REMOVED.	a. BOLTED TO EQUIPMENT HOUSING WITH STAINLESS STEEL BOLTS AND LOCK	
12. INSTALL 2" ORANGE DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUIT AND WIRE.	b. ALL EQUIPMENT TO BE GROUNDED SHALL BE FREE OF PAINT OR ANY	
13. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.	OTHER MATERIAL COVERING BARE METAL AT THE POINT OF CONNECTION. <u>3.5 ACCEPTANCE TESTING</u> :	
B. WIRE AND CABLE:	A. PROVIDE PERSONNEL AND EQUIPMENT, MAKE REQUIRED TESTS, AND SUBMIT TEST	
1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:	REPORTS UPON COMPLETION OF TESTS.	
DESCRIPTION 120/240V 208Y/120V 480Y/277V PHASE A BLACK BLACK BROWN	B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NONCOMPLYING ITEMS SHALL BE REMOVED FROM THE JORSITE AND REDUCED WITH ITEMS COMPLYING WITH THE SPECIFIED	
PHASE BREDREDORANGEPHASE CBLUEYELLOW	REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE OF SUCH NON-COMPLIANCE.	
NEUTRALWHITEWHITEGRAYGROUNDGREENGREENGREEN		

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STED AFTER INSTALLATION, BUT TORS SHALL TEST FREE FROM BE FOR ONE MINUTE USING 50 MEGAOHMS. DEVICES FOR ELECTRICAL S. SES AND BETWEEN PHASE AXIMUM AND MINIMUM RESISTANCE OF GROUNDING ALL-OF-POTENTIAL" METHOD. ETCH. NOTIFY THE ENGINEER IMS.	NEW HAND SHELTON DOUGLAS HEISLING No. 18260 CENSED NAL ENGINE SULLOW HAND SULLOW HAND DOUGLAS KEISLING No. 18260 CENSED SULLOW HAND DOUGLAS KEISLING No. 18260 SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SULLOW HAND SUL	8/2024			
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	AGI-INA-NH-	0001			
	1600 WOODBURY AVE PORTSMOUTH, NH 03801				
	SPECIFICATIONS		= 1 #: -	1	

HYC_400UL – Installation and Maintenance Manual Version 1-1

Contents

Installation and Maintenance Manual

hypercharger HYC_400UL (100 kW – 400 kW) Ultra-fast charging system for electric vehicles

for HW version 4

PROPOSED METER	1-1/4" PVC CONDUIT FOR METERING CIRCUITS PER UTILITY
PROPOSED HYC400 DISPENSER (POST)	(3) #500 KCMIL AL (THWN-2) + (1) #2/0 AWG AL (THWN-2) EGC IN EACH OF (2) 3" SCH 40 PVC CONDUITS
SITE COMMS BOX	 (1) FIBER OPTIC CABLE IN (1) 1" SCH 40 PVC CONDUIT FOR COMMS
ISP POINT OF CONNECTION (FIELD LOCATE)	(1) 1" SCH 40 PVC CONDUIT FOR INTERNET CABLE/FO
SITE COMMS BOX POWER	(2) #10 KCMIL CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT
SITE COMMS BOX SPD	 (3) #10 KCMIL CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT
MAIN BREAKER CONTROLS WITHIN SWITCHBOARD	(1) #14 AWG CU (THWN-2)
E-STOP BUTTON	(2) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT

DATE

08/14/24

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8.5"X 11"

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BASE PLAN - FRONT AND BACK ANCHORING OPTION

BASE PLAN - CONDUIT LOCATION RECOMMENDATIONS

BASE PLAN - SIDES ANCHORING OPTION

#	REVISION	DATE		
0	ISSUED FOR APPROVAL	08/14/24		

POWER & DISTRIBUTION

16450 PHOEBE AVENUE

LA MIRADA, CA 90638

PHONE: (714)-307-9198

CUSTOMER APPROVAL:

SITE NAME:	
IONNA WILLOUGHBY CHARGING HUB MSB-1	
ADDRESS:	

4145 OH-306, WILLOUGHBY, OH 44094

DRAWING:						
2408-3	3-17102					
SHEET DES	CRIPTION:					
ANCHORING						
LOCATIONS/BOM						
DRAWN BY:	SHEET:					
EB	4					
REV:	PAPER:					
0	8.5"X 11"					

ITEM	QTY.	MFG	CAT. No.	DESCRIPTION		
2500/3	1	SQ D	WL3GGH64A35XXXXXCXT	MODEL NW25H 3-POLE, 2500A, 100% 100KAIC 480VAC, 2500A SENSOR PLUG, TYPE 'A' PLUG, TRIP UNIT TYPE 6.0P ALSIG, (4) AUX CONTACTS, PROV. FOR PADLOCK AND PROVISIONS , HORIZONTAL REAR CONNECTED 'T"		
	1	SQ D	S48182	NEUTRAL SENSOR 2500A-3000A		
ERMS	1	SQ D	9001K11J35LLL	SWITCH WITH BLUE INDICATOR LIGHT (24VDC)		
	1	SQ D	9001KA1	SWITCH CONTACT BLOCK		
	1	SQ D	9001K7	PADLOCK ATTACHMENT		
	1	SQ D	LV434063	I/O MODULE		
	1	SQ D	LV434196	CIRCUIT BREAKER ULP CORD 4.27 FT		
600/3	5	EATON	PDG33M0600B2NN	MCCB, 600AT/600AF, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT		
	5	EATON	PDG3XPLKTOFF	PADLOCK PROVISION, FRAME 3		
	5	EATON	PDG3X3TA630	(2)#2-500 KCMIL LOAD LUGS		
100/3	1	EATON	PDG23M0100B2NL	MCCB, 100AF/100AT, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT, (1)#14-1/0		
	1	EATON	PDG2XPLKTOFF	PADLOCK PROVISION, FRAME 2		
30/3	1	EATON	PDG23M0060B2NL	MCCB, 60AF/30AT, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT. (1)#14-1/0 LOAD LUGS		
	1	EATON	PDG2XPLKTOFF	PADLOCK PROVISION, FRAME 2		
CPT	1	HAMMOND	C1F003LES	CONTROL POWER TRANSFORMER 480-120/240V, 3.0 KVA		
PS	1	PHOENIX	2902991	POWER SUPPLY, 120VAC IN, 24VDC OUTPUT, 30W		
F1-5	LOT	FERRAZ	USCC1I, USCC2I,USCC3I	30A 1P, 2P,3P 600VAC FUSE BLOCKS		
SPD	1	SQ D	TVS4IMA160	SURGE PROTECTION DEVICE, 160KA, 480VAC + GND DELTA, REMOTE DISPLAY		
REC	1	HUBBLE	GFRST20W	20A 120VAC GFCI RECEPTACLE		
тн	1	CADET	T410A	THERMOSTAT 50-90 F, 22A		
HUM	1	BROAN	DD500W OR EQUIV	DE-HUMIDISTAT 20-80% RH		
SH	2	TEMPCO	CSE00500	STRIP HEATER 350W, 120V		

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	3.1 fc	23.3 fc	0.0 fc	0.0 fc	N/A

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot		
	A	6	KEYSTONE TECHONOLOGIES LLC	KT-CLED60PS-M1-8CSB- VDIM-Z (Setting at 3000K)	1	7706	1	57.31	Max: 2404cd		

Ionna NH Dark Skies renedering AGI Knoxvile, TN Keystone CLED 60 watt (6 ea.)

Designer TJ Grunwald CLEP Date 11/13/2024 Scale Not to Scale Drawing No.

Summary

1 of 1
iONNA Single Pole 4-Plug Canopy 1600 Woodbury Avenue Portsmouth, NH 03801

RBA Job No. 24 45149

CALCULATIONS FOR: Standalone Canopy

Designed in accordance with: 2021 International Building Code / New Hampshire Building Code ASCE 7-16 Wind Velocity = 125 mph Risk Category II



FABRICATOR Architectural Graphics, Inc. 2655 International Parkway

Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC 1 Vantage Way, Suite B-400 Nashville, Tennessee 37228

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7 SUBJECT DNNA CANDEY SHEET NO. 1 OF JOB NO. 24 45149 1 16 4-PLUG SINGLE POLE RBA STRUCTURAL ENGINEERING BY JeH Acil FOR DATE 9/19/24 202 , INTERNATIONAL BUILDING CANOPY LOAPS: GODE ; ASRE 7-16 DEAD LOADS: DECK PANS + FASCIA PANELS: S PSF MAX. STEEL CHANNELS: 9 PUF MAX HSS 5"x5"x14" = 15.62 PLF COLUMN: 27.48 PLK MAX SNOW LOAD: PA: 50 PSF pf: 0.7CeCt Ispg: (0.7) (1.1) (1.2) (1.0) (SORIE) = 46.2 PSP Ce=1.1 Ct 61.2 Ic= 1.0 2=0.13pg+14=(0.13)(SORSE)=14=20.5 PCK 46.2 PSF /20.5 PCK = Z.25' EYEERS I'O' CANOPY HEIGHT .: NO DEIET LOADING Pm = 2015 = (20)(1.0) : 20154 6 46.2 PSF =7 USE PG WIND LOAD: V=125 MPH 92 0.00256 Kg Kgt Kd V2 , 28.90 PSF K2. 0.85 (EXPC, h = 11-10°) KAt : 1.0 Kd : 0.85 VERTICAL WIND: P= 9hGCN = = = 29.48 KF (UT.) G:0.85 CN = ±1.2 (MAX VALUES) GOLVICE LOADS: D+S= 5PSF+46.2PSF= 51.2PSF D+0.6W = 5PSF+(0.6)(29.48PSF)= 22.7 BF D+ 0.755 + 0.76 (0.6W) : 5 PSF + (0.75) (46.2BF) + (0.75) (0.6) (29.48BF) = 53.0 BF CONTROLS HORIZONSTAL WIND WADS : SEE SHEET 2

Docusign E Project	iONNA Canopy	11F4-BC3F-6E	ROSS BRY		CIATES, INC.	Sheet No.	2	of	16
Model	Single Pole 4-Plug		CONSU	LTING EN	IGINEERS	Job No.	24 45149		
Ву	JRH		N		, TN	Date	9/19/2024		
<u>CODE</u>	<u>S</u> :								
	Wind Loads per provis	ions of ASC	E 7-16, Chapt	er 29:					
<u>SIGN D</u>	DIMENSIONS:								
	Length, B = 5.00	ft.	Height, s =	1.00	ft.	OAH Abo	ove Grade, h =	11.83	ft.
	Depth, t = 16.50	ft.	A _{sign} =	5.0	ft^2	Ground	Elevation, z _g =	0	ft.
<u>⊻</u>	VIND LOADS:								
	Natural Frequency =	1		RIGID ST	RUCTURE				
		-							
	Exposure Category =	C		Ris	sk Category =	- 11			
0	- 0 00250 * 1/ * 1/ * 1/ *	κιζ * \/ ²	Valasity Dro			ion 26 10 2			
Чh	$-0.00256 \text{ K}_{z} \text{ K}_{z} \text{ K}_{zt} \text{ K}_{d}$	κ _e v	Velocity Pre	ssure, AS	CE 7-10, Sect	1011 20.10.2	7 16 Tabla 26	10 1	
	$K_z = 0.85$		Topographi	ssure Exp		action 26.8 2	7-10, Table 20.	10-1	
	$K_{zt} = -1.0$		Wind Direct	ionality E	actor Δ SCE 7	7-16 Table 2	- 26 6-1		
	$K_{\rm d} = 1.00$		Ground Elev	vation Fac	tor ASCE 7-1	16 Table 26	9-1		
	V = 125		Basic Wind	Speed, mi	nh. ASCE 7-1	6. Figure 26	.5 1 5-1B		
Qb	$= 28.86 \text{ lb/ft}^2$			opeed) m	pii) / 1002 / 1	o) 1 1801 e 20	0 10		
-111									
F/A	$= q_{h} * G * C_{f}$		Design Wind	d Loads, A	SCE 7-16, Se	ction 29.3.1			
	G = 0.85		Gust Effect	Factor, AS	SCE 7-16, Sec	tion 26.11			
	B/s = 5.00		Length of Si	gn/Depth	of Sign				
	s/h = 0.08		Depth of Sig	n/Overal	l Height				
	C _f = 1.85		Force Coeffi	cient, AS	CE 7-16, Figu	re 29.3-1			
						: and for a state		atuia aau	
F/A	= 45.39 lb/ft ²		CASE A: rest	litant acts	s normal to s	ign face thro	ougn the geom	etric cen	ter
			CASE B: resu	ultant acts	s normal to s	ign face at a	distance from	the geo	metric center
			toward the	windward	d edge equal	to 1.00'			
			CASE C load	ing applie	25				
L	<u>RFD Loading:</u>								
	Use wind pressure =	45.39	lb/ft ²	for 1.0*V	V from ASCE	7-16, Sectio	n 2.3.1		
l	ASD Loading:								
			2	_	_				
	Use wind pressure =	27.23	lb/ft [∠]	for 0.6*V	V from ASCE	7-16, Sectio	n 2.4.1		

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7 SUBJECT IONNA CANDPY 3 16 SHEET NO._ OF SINGLE POLE 4-PLUG JOB NO. 24 45149 RBA STRUCTURAL ENGINEERING BY JRI-DATE 9/19/24 FOR CANOPY CHANNELS : @ 54" MAX O.C. W= (53.0 PSF) (54"/12"/.) + 9 PLF = 248 PLF LCANT = 5'0'/2 = 2'6" $M \in (248 \text{ pc})(2.6)^2$, 775# @MIN, 3" DEEP × 2" NIDE × 1/4": 7× = 1.765 113 MALL 2 (3000 PA) (1.765 IN3) = 3170 + > 775 + 010 P@ BEAM = (248 PUF)(5'0") = 620 # EA. SIDE @ 2" LONG FLACE - BEVEL TO BEAM : Rnw - (0.60) (7000 PR) (5/8 X. 14') (2"), 10562# > 620# 0K MAIN BEAM : W = (53 PSF)(5'0') + (9PLF)(5'0')(4) + 15.62 PLF = 292 PLF LEANT = 16'6"/2 = 8'3" 16'6" M = (292 PLF) (8-3°)2, 9937 #1 MALZ 17500 # 29937 # OK Wp = (5R\$)(5'0") + (9PUR)(5'1" (4) + 15.62 PUK: 51.6 PUK 16'6" DEFLECTION : SDEAD ~ (51.6 PLF/12"/1)(99") 4 (8)(2900000 PS)(16.01N4) = 0.111" I= 16.01N4 ~L/1780 0K GTOTAL ~ (292 PUX /12"/1) (99")4, 0.630" 18) (29, 000, 000 PT) (16, 01N4), 0.630" ~ L/314 ~ L/240 OK WELD @ R: Sw= (12")2/3 \$ 5/8 \$ 1/4": 7.51N3 MALLZ (0.60) (70000 A) (7.51N3) 5 13125# > 9937# 0K

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7 SUBJECT IDNNA CANOPY 16 SHEET NO. 4 OF EANGLE POLE 4-PLUG JOB NO. 24 45149 BY JRH DATE 9/19/24 MATCH PLATE: ME 9937 # P= (292 PLF)(16-6°) - 4818# T6 = (9937 +)(121/1) - 6625 +/BOLT @ 1\$ A325: Rn = UPuhfThns = 7684# > 6625# or 52 1.50 11 = 0,20 Du= 1.13 nf=1.0 Th = 61000# 15=1.0 MR E (2) (6625#) (2.5"); 83125#" tmin = V (147(33125#") (3600 Par/1.67) (12") = 0.716" 2 1" 0K COLUMN: CONSIDER ONLY I CANOPY SIDE LOADED FOR MOMENT (CONSERVATIVE) MTOD & 9937#" B. = \$ 4818# PLITOP = (16-6)(1-0°)(27.27 PSF) + 450# MITTAL = 9937# + (450 +)(11-4")= 15037# Prophe = 4818 + + (27.48 P.K)(11') = 5120+ MALL 2 32400# > 15037 H'OK PAU 2 78600 # > 5120 # 04 5120# + 3 (15037#), 0,478 < 1.0 0K WELD: SW = (+) (743/8°)2 (0.70%)(3/8°) = 11.32 IN3 MALL 2 (0.60) (70000 MT) (11.32 M3) = 19820 H > 15037 HOK (TOP & BUTTOM) (12"/1) (2.0) BASE PLATE The = (1505 (14')(12"/1) = 10025 # (9")(2 PANCHURS) = 10025 # MR = (2)(10025#)(2.1") = 42104# MIN = V (4) (42104 MA) (36000 PA) 1.67) (12") = 0.807" 21" 5K

Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7 SUBJECT <u>I ONNA CANODY</u> SINGLE POLE F-PLUG FOR AGI BY SHEET NO. 5 OF_ 16 JOB NO. 24 45149 BY JPH RBA STRUCTURAL ENGINEERING, LLC DATE 9/19/24 UPLIFT CHECK WIND: (0.6) (29.48 PSF) (16-6) (5-0") = 1460 # DEAD: (06) [(5 RSF)(16'6')(5'0") + (4)(9R+)(5'0") + (16'6")(15.62 PLF) + (11')(27.48RF) SUPERSTRUCTURE = 691# FOUNDATION: (0.6) (5'-3') (5'-3') (3'-0") (150 Par) = 7441# 7441 + 691 + = 8132 + > 1460 + OK

Docusign Envelope ID	: 1C4F2B64-D77B-4	1F4-BC3F-6BC	CF8F1E1FE7	
Project iONN	A Canopy		ROSS BRYAN ASSOCIATES, INC. Sheet No. 6 of	16
Model Single	Pole 4-Plug		CONSULTING ENGINEERS Job No. 24 45149	
By JRH			NASHVILLE, TN Date 9/19/24	
CHECK FOUNDA	TIONS:			
LRFD Load Com	binations:	1.2D + 1.0W	ASCE 7-16, Section 2.3	
Resistance Fact	ors: Φ_{plain} =	= 0.6	ACI 318	
	Ф _v =	= 0.75	ACI 318	
	Ф _b =	= 0.9	ACI 318	
$f_{c} = 250$	o psi			
p _a = 15	o psf/ft			
q _a = 200	0 pst			
Total Service W	ind Load:	P _w =	= 0.45 kips	
Total Service M	oment at Base:	M =	= 15.04 k-ft	
Rectangular Spi	ead Foundatior	<u>n</u> :		
Length =	5.25	ft.	Width = 5.25 ft. Depth = 4 ft.	
Dead Load, P	₁ =	16.54	kips	
Overturning N	/loment, M _o =	17.06	k-ft	
Resistive Mor	nent, M _r =	43.41	k-ft $M_r/M_o = 2.54 > 1.5$ <u>O.K.</u>	
Eccentricity, e	$e = M/P_d =$	0.91	ft. kern, k = 0.88 ft. e > k	
Bearing Press	ure, q _{max} =	1223.97	psf < q _a = 2000 psf <u>O.K.</u>	
	oting M -	22.20	k-ft No Reinforcing Required - Use Minimum Steel	
Moment in Fo	oung w _u =	25.50	k it is its its indicating its and is a second second	
Moment in Fo	No.	23.38 7	Bars Top and Bottom - Length.	
Moment in Fo Use 6 Use 6	No. No.	23.38 7 7	Bars Top and Bottom - Length. Bars Top and bottom - Width.	
Moment in Fo Use 6 Use 6 Moment Capa	No. No. αcity, ΦM _n =	7 7 7 710.37	Bars Top and Bottom - Length.Bars Top and bottom - Width.k-ft> $M_u = 23.38$ k-ft	
Moment in Fo Use 6 Use 6 Moment Capa Check Shear,	No. No. acity, $\Phi M_n =$ V _u =	7 7 710.37 N/A	Bars Top and Bottom - Length. Bars Top and bottom - Width. $k-ft > M_u = 23.38 k-ft $ <u>O.K.</u> *See Note Below	



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Company: Ross Bryan Associates Page: Address: Specifier: Jacob R. Holloway Phone I Fax: . E-Mail: (615) 329-1300 | Design: iONNA Canopy Single Pole 4-Plug Date: 9/19/2024 Fastening point:

Specifier's comments:

1 Input data

Anchor type and diameter:	Hex Head ASTM F 1554 GR. 36 1
Item number:	not available
Specification text:	Hilti Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use
Effective embedment depth:	h _{ef} = 25.000 in.
Material:	ASTM F 1554
Evaluation Service Report:	Hilti Technical Data
Issued I Valid:	- -
Proof:	Design Method ACI 318-19 / CIP
Stand-off installation:	e _b = 0.000 in. (no stand-off); t = 0.500 in.
Anchor plate ^R :	$l_x \times l_y \times t = 12.000$ in. x 12.000 in. x 1.000 in.; (Recommended plate thickness: not calculated)
Profile:	Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in. x 0.375 in.
Base material:	uncracked concrete, 2500, f_c ' = 2,500 psi; h = 36.000 in.
Reinforcement:	tension: not present, shear: not present;
	edge reinforcement: none or < No. 4 bar

 $^{\rm R}$ - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [lb, in.lb]



Input data and results must be checked for conformity with the existing conditions and for plausibility! PROFIS Engineering (c) 2003-2024 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan

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Company:	Ross Bryan Associates	Page:	8
Address: Phone I Fax	(615) 329-1300	F-Mail	Jacob R. Holloway
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			
1.1 Design results			

Case	Description	Forces [lb] / Moments [in.lb]	Seismic	Max. Util. Anchor [%]
1	Combination 1	$N = 0; V_x = 750; V_y = 0;$	no	69
		$M_v = 0; M_v = 300,740; M_z = 0;$		

2 Load case/Resulting anchor forces

Anchor reactions [lb]				
Anchor	Tension force	Shear force	Shear force x	Shear force v
1	15,700	188	188	0
2	0	188	188	0
3	15,700	188	188	0
4	0	188	188	0
Max. concrete compressive strain: $0.37 \ [\%]$ Max. concrete compressive stress: $1,631 \ [psi]$ Resulting tension force in $(x/y)=(-4.500/0.000)$: $31,400 \ [lb]$ Resulting compression force in $(x/y)=(5.078/0.000)$: $31,400 \ [lb]$				



Anchor forces are calculated based on the assumption of a rigid anchor plate.

3 Tension load

	Load N _{ua} [lb]	Capacity ଦ N _n [lb]	Utilization $\beta_N = N_{ua} / \Phi N_n$	Status	
Steel Strength*	15,700	26,361	60	OK	
Pullout Strength*	15,700	22,795	69	OK	
Concrete Breakout Failure**	31,400	98,994	32	OK	
Concrete Side-Face Blowout, direction **	N/A	N/A	N/A	N/A	

* highest loaded anchor **anchor group (anchors in tension)



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Company:	Ross Bryan Associates	Page:	9
Address:		Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

3.1 Steel Strength

N _{sa}	= A _{se.N} f _{uta}	ACI 318-19 Eq. (17.6.1.2)
φ N _{sa}	$> N_{ua}$	ACI 318-19 Table 17.5.2

Variables

A _{se,N} [in. ²]	f _{uta} [psi]
0.61	58,000

Calculations

N_{sa} [lb] 35,148

Results

N _{sa} [lb]	φ _{steel}	φ N _{sa} [lb]	N _{ua} [lb]
35,148	0.750	26,361	15,700

3.2 Pullout Strength

N _{pN}	$= \psi_{c,p} N_p$	ACI 318-19 Eq. (17.6.3.1)
N _p	$= 8 A_{brg} f_{c}$	ACI 318-19 Eq. (17.6.3.2.2a)
φ Ν _{pN}	$1 \ge N_{ua}$	ACI 318-19 Table 17.5.2

Variables

Ψ _{c,p}	A _{brg} [in. ²]	λ _a	f _c [psi]
1.400	1.16	1.000	2,500
Calculations			
N _p [lb]	_		
23,260			
Results			
N _{pn} [lb]	ϕ_{concrete}	φ N _{pn} [lb]	N _{ua} [lb]
32,564	0.700	22,795	15,700



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Company:	Ross Bryan Associates	Page:	10
Address:	-	Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cbg} = \begin{pmatrix} A_{Nc} \\ \overline{A}_{Nc0} \end{pmatrix} \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_{b}$	ACI 318-19 Eq. (17.6.2.1b)
$\phi N_{cbg} \ge N_{ua}$	ACI 318-19 Table 17.5.2
A _{Nc} see ACI 318-19, Section 17.6.2.1, Fig. R 17.6.2.1(b)	
$A_{Nc0} = 9 h_{ef}^2$	ACI 318-19 Eq. (17.6.2.1.4)
$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2 e_N}{3 h_{ef}}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.3.1)
$\Psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \le 1.0$	ACI 318-19 Eq. (17.6.2.4.1b)
$\Psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.6.1b)
$N_{\rm b} = 16 \lambda_{\rm a} \sqrt{f_{\rm c}} h_{\rm ef}^{5/3}$	ACI 318-19 Eq. (17.6.2.2.3)

Variables

h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]	$\Psi_{c,N}$
24.000	0.000	0.000	27.000	1.250
c _{ac} [in.]	k _c	λ _a	f _c [psi]	
-	16	1.000	2,500	

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\psi_{\text{ ec1,N}}$	$\psi_{\text{ec2,N}}$	$\psi_{\text{ed},\text{N}}$	$\psi_{\text{cp},\text{N}}$	N _b [lb]
3,969.00	5,184.00	1.000	1.000	0.925	1.000	159,750
Results						
N _{cbg} [lb]	ϕ_{concrete}	φ N _{cbg} [lb]	N _{ua} [lb]			
141,420	0.700	98,994	31,400	-		



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Address:		Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

4 Shear load

	Load V _{ua} [lb]	Capacity ଦ V _n [lb]	Utilization $\beta_{\rm V} = V_{\rm ua} / \Phi V_{\rm n}$	Status
Steel Strength*	188	13,708	2	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength**	750	235,582	1	OK
Concrete edge failure in direction x+**	750	41,967	2	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa}	= 0.6 $A_{se,V} f_{uta}$	ACI 318-19 Eq. (17.7.1.2b)
φ V _{ste}	$e_{l} \ge V_{ua}$	ACI 318-19 Table 17.5.2

Variables

A _{se,V} [in. ²]	f _{uta} [psi]
0.61	58,000
Calculations	
V _{ee} [lb]	

V_{sa} [lb] 21,089

Results

V _{sa} [lb]	ϕ_{steel}	φ V _{sa} [lb]	V _{ua} [lb]
21,089	0.650	13,708	188



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Company:	Ross Bryan Associates	Page:	12
Address:		Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

4.2 Pryout Strength

V_{cpg}	$= k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_{b} \right]$	ACI 318-19 Eq. (17.7.3.1b)
φ V _{cpg}	$_{1} \geq V_{ua}$	ACI 318-19 Table 17.5.2
A _{Nc}	see ACI 318-19, Section 17.6.2.1, Fig. R 17.6.2.1(b)	
A _{Nc0}	= 9 h _{ef} ²	ACI 318-19 Eq. (17.6.2.1.4)
$\psi_{\text{ec,N}}$	$= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.3.1)
$\psi_{\text{ed,N}}$	$= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$	ACI 318-19 Eq. (17.6.2.4.1b)
$\psi_{\text{ cp},\text{N}}$	$= MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.6.1b)
N _b	= 16 $\lambda_a \sqrt{f_c} h_{ef}^{5/3}$	ACI 318-19 Eq. (17.6.2.2.3)

Variables

k _{cp}	h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]
2	18.000	0.000	0.000	27.000
$\Psi_{c,N}$	c _{ac} [in.]	k _c	λ _a	ŕ _c [psi]
1.250	∞	16	1.000	2,500

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\psi_{\text{ ec1,N}}$	$\psi_{\text{ec2,N}}$	$\psi_{\text{ed},\text{N}}$	$\psi_{\text{cp},\text{N}}$	N _b [lb]
3,969.00	2,916.00	1.000	1.000	1.000	1.000	98,903
Results						
V _{cpg} [lb]	ϕ_{concrete}	φ V _{cpg} [lb]	V _{ua} [lb]			
336,546	0.700	235,582	750	_		



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Company:	Ross Bryan Associates	Page:	13
Address:	-	Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

4.3 Concrete edge failure in direction x+

$V_{\rm cbg}$	$= \begin{pmatrix} A_{V_{C}} \\ \overline{A_{V_{C}O}} \end{pmatrix} \Psi_{ec,V} \Psi_{ed,V} \Psi_{c,V} \Psi_{h,V} \Psi_{parallel,V} V_{b}$	ACI 318-19 Eq. (17.7.2.1b)
φ V _{cbg}	$\geq V_{ua}$	ACI 318-19 Table 17.5.2
A_{Vc}	see ACI 318-19, Section 17.7.2.1, Fig. R 17.7.2.1(b)	
A_{Vc0}	= 4.5 c_{a1}^2	ACI 318-19 Eq. (17.7.2.1.3)
$\psi_{\text{ec,V}}$	$= \left(\frac{1}{1 + \frac{e_v}{1.5c_{a1}}}\right) \le 1.0$	ACI 318-19 Eq. (17.7.2.3.1)
$\psi_{\text{ed,V}}$	$= 0.7 + 0.3 \left(\frac{c_{a2}}{1.5c_{a1}} \right) \le 1.0$	ACI 318-19 Eq. (17.7.2.4.1b)
$\psi_{h,V}$	$=\sqrt{\frac{1.5c_{a1}}{h_a}} \ge 1.0$	ACI 318-19 Eq. (17.7.2.6.1)
V _b	$= 9 \lambda_a \sqrt{f_c} c_{a1}^{1.5}$	ACI 318-19 Eq. (17.7.2.2.1b)

Variables

c _{a1} [in.]	c _{a2} [in.]	e _{cV} [in.]	$\Psi_{c,V}$	h _a [in.]	
24.000	27.000	0.000	1.400	36.000	
l _e [in.]	λ _a	d _a [in.]	f _c [psi]	$\psi_{\text{ parallel},V}$	
8.000	1.000	1.000	2,500	1.000	
Calculations					
A _{vc} [in. ²]	A _{Vc0} [in. ²]	$\Psi_{\text{ec,V}}$	$\psi_{\text{ed},\text{V}}$	$\Psi_{h,V}$	V _b [lb]
2,268.00	2,592.00	1.000	0.925	1.000	52,909
Results					
V _{cbg} [lb]	ф _{concrete}	φ V _{cbg} [lb]	V _{ua} [lb]	_	

750

5 Combined tension and shear loads, per ACI 318-19 section 17.8

0.700

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status	
0.689	0.018	5/3	54	OK	

41,967

 $\beta_{\mathsf{NV}} = \beta_{\mathsf{N}}^{\zeta} + \beta_{\mathsf{V}}^{\zeta} <= 1$

59,952



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Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2021, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/

Fastening meets the design criteria!



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Company: Ross Bryan Associates Page: Specifier: Jacob R. Holloway Address: Phone I Fax: E-Mail: (615) 329-1300 | Design: iONNA Canopy Single Pole 4-Plug Date: 9/19/2024 Fastening point:

7 Installation data

Profile: Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in. x 0.375 in.

Hole diameter in the fixture: $d_f = 1.062$ in.

Plate thickness (input): 1.000 in.

Recommended plate thickness: not calculated

Anchor type and diameter: Hex Head ASTM F 1554 GR. 36 1 Item number: not available Maximum installation torque: -Hole diameter in the base material: - in. Hole depth in the base material: 25.000 in.

15

Minimum thickness of the base material: 26.172 in.

Hilti Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use



Coordinates Anchor [in.]

Anchor	x	У	Cx	c _{+x}	C_y	c _{+y}
1	-4.500	-4.500	27.000	36.000	27.000	36.000
2	4.500	-4.500	36.000	27.000	27.000	36.000
3	-4.500	4.500	27.000	36.000	36.000	27.000
4	4.500	4.500	36.000	27.000	36.000	27.000



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Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the
 regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use
 the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each
 case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data
 or programs, arising from a culpable breach of duty by you.

iONNA CANOPY CONCEPT

PROJECT MANAGER

DESIGN SPECIALIST BEN WEIENETH

SHEET INDEX

- C01COVERP01PLANSE01ELEVATIONSS01SECTIONS
- S01SECTIONSD01DETAILS





APPROVAL	NOTES:		GENERAL NOTES
NAME		OTHER MATERIALS	 MATERIALS: STEEL HSS – ALL EXPOSED STRUCTUR BOLTED CONNECTIONS V
ORGANIZATION		 PLYWOOD (3/4" CDX) VAPROSHIELD - IT / SA 	A449 BOLTS, ASTM A563 N SURFACES, UNLESS NOT MINIMUM TENSILE STREN USE OF DIRECT-TENSION
TITLE		SHEET METAL (TRIM)	 ANCHOR BOLTS TO CONS ASTM A563 NUTS, AND AS
		NON STD. SCREW	
APPROVED AS NOTED REVISE & RESUBMIT		SIGNAGEOTHER - SEE NOTES	 ALL EXPOSED HARDWARK ALL STEEL WELDS TO BE ELECTRODES. ALL WELDI REMOVE ALL SHARP EDG PROVIDE NEOPRENE OR

4 1	Architectural Branding - Atlanta	ionna canopy concept	DRAWN BY BJW	
	218 River Drive		JOB #	
Cartersville, GA 30120 800-877-7868 www.AGI.net	ARCHITECT	DATE 9/19/24		







PO1 PERSPI	ECTIVE VEIW NTS		BOI REFLECTED CEILING	<u>g plan</u>
Arc	chitectural Branding - Atlanta	iONNA CANOPY CONCEPT	DRAWN BY BJW	
	218 River Drive		JOB #	
Solution Contensities (GA 30120 800-877-7868 www.AGI.net	ARCHITECT	^{DATE} 9/19/24		





Docusign Envelope ID: 1C4F2B64-D77B-41F4-BC3F-6BCF8F1E1FE7



1 COLUMN BASE DETAIL D01 REF:

6" = 1'-0"







	PROJECT	DRAWN BY	REV#	DAT
Architectural Branding - Atlanta	iONNA CANOPY CONCEPT	BJW	Â	
		JOB #		
218 River Drive				
800-877-7868	ARCHITECT	DATE		
www.AGI.net		9/19/24	(Δ)	

RBA Structural Eng ng, LLC Engineers <u>1 Vantage Way, Suite B400 Nashville TN 37228</u> DESIGNED IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE ASCE 7-16



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SHEET NUMBER 5 of 5 SHEET NUMBER D01

iONNA Single Pole 4-Plug Canopy 1600 Woodbury Avenue Portsmouth, NH 03801

RBA Job No. 24 45149

CALCULATIONS FOR: Standalone Canopy

Designed in accordance with: 2021 International Building Code / New Hampshire Building Code ASCE 7-16 Wind Velocity = 125 mph Risk Category II



FABRICATOR Architectural Graphics, Inc. 2655 International Parkway Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC 1 Vantage Way, Suite B-400 Nashville, Tennessee 37228

SUBJECT IONNA CANDRY SHEET NO. 1 OF JOB NO. 24 45149 1 16 SINGLE POLE 4-PLUG RBA STRUCTURAL ENGINEERING BY JEH Acil FOR DATE 9/19/24 202 , INTERNATIONAL BUILDING CANOPY LOAPS: GODE ; ASRE 7-16 DEAD LOADS: DECK PANS + FASCIA PANELS: S PSF MAX. STEEL CHANNELS: 9 PUF MAX HSS 5"x5"x14" = 15.62 PE COLUMN: 27.48 PLK MAX SNOW LOAD: PA: 50 PSF pf: 0.7CeCtIspg: (0.7)(1.1)(1.2)(1.0)(SORIE) = 46.2 PSP Ce=1.1 Ct & 1.2 Is= 1.0 2=0.13 pg + 14 = (0.13) (SORSE) = 14= 20.5 PCK 462 PSF / 20.5 PCK = Z.25' EXCERS 2'0" CANOPY HEIGHT .: NO PRIKT LOADING Pm = 2015 = (20)(1.0) : 20157 6 46.2 PSF =7 USE Pg WIND LOAD: V=125 MPH 92 0.00256 Kg Kgt Kd V2 , 28.90 PSF K2. 0.85 (EXPC, h = 11-10°) Ket : 1.0 Kd = 0.85 VERTICAL WIND: P= 9hGCN = = = 29.48 KF (UST.) G:0.85 CN = ±1.2 (MAX VALUES) GOLVICE LOADS: D+S= 588 + 46.2 PTE= 51.2 PSE D+0.6W = 5 PSF+(0.6)(29.48PSF)= 22.7 BF D+ 0.755 + 0.75 (0.6W) , 5 PSF + (0.75)(46.2BF) + (0.75)(0.6)(29.48ASF), 53.0 BF (CONTROLS) HORIZONSTAL WIND WADS: SEE SHEET 2

Project Model By	iONNA Canopy Single Pole 4-Plu JRH	ug	ſЬ	ROSS BRY CONSL N	AN ASSOC ILTING EN ASHVILLE	CIATES, INC. GINEERS , TN	Sheet No. Job No. Date	2 24 45149 9/19/2024	of	16
, <u>CODES</u> :	-	I			-	,				
	Wind Loads per	provisi	ons of ASC	E 7-16, Chap	ter 29					
<u>SIGN DII</u>	<u>MENSIONS</u> :									
	Length, B = 5	.00	ft.	Height, s =	1.00	ft.	OAH Abo	ove Grade, h =	11.83	ft.
	Depth, t = 10	6.50	ft.	A _{sign} =	5.0	ft ²	Ground	Elevation, z _g =	0	ft.
<u>WI</u>	<u>ND LOADS</u> :									
	Natural Frequ	ency =	1		<u>RIGID STI</u>	RUCTURE				
	Exposure Cate	gory =	С		Ris	sk Category =	- 11			
q _h =	0.00256 * K _z * K	_{zt} * K _d *	$K_e * V^2$	Velocity Pre	essure, AS	CE 7-16, Sect	ion 26.10.2			
	K _z = 0	.85		Velocity Pre	ssure Exp	osure Coeffic	cient, ASCE	7-16, Table 26.	10-1	
	K _{zt} =	1.0		Topographi	c Factor, A	ASCE 7-16, Se	ection 26.8.2	2		
	K _d = 0	.85		Wind Direct	tionality Fa	actor, ASCE 7	7-16, Table 2	26.6-1		
	K _e = 1	.00		Ground Elev	vation Fac	tor, ASCE 7-1	16, Table 26	.9-1		
	V = 1	L 25		Basic Wind	Speed, mp	oh, ASCE 7-16	6, Figure 26	.5-1B		
q _h =	28.86 lb/ft	2								
F/A =	q _h * G * C _f			Design Win	d Loads, A	SCE 7-16, Se	ction 29.3.1			
	G = 0	.85		Gust Effect	Factor, AS	CE 7-16, Sec	tion 26.11			
	B/s = 5	.00		Length of Si	gn/Depth	of Sign				
	s/h = 0	.08		Depth of Sig	gn/Overall	Height				
	C _f = 1	.85		Force Coeff	icient, ASC	CE 7-16, Figui	re 29.3-1			
F/A =	45.39 lb/ft	2		CASE A: res	ultant acts	s normal to s	ign face thre	ough the geom	etric cent	ter
				CASE B: rest toward the	ultant acts windward	s normal to si l edge equal	ign face at a to 1.00'	distance from	the geon	netric center
				CASE C load	ling applie	S				
<u>LRI</u>	<u>-D Loading:</u>									
	Use wind pres	sure =	45.39	lb/ft ²	for 1.0*W	/ from ASCE	7-16, Sectio	n 2.3.1		
<u>A</u>	SD Loading:									
	Use wind pres	sure =	27.23	lb/ft ²	for 0.6*W	/ from ASCE	7-16, Sectio	n 2.4.1		

SUBJECT IONNA GANOPY 16 SHEET NO. 4 OF EANGLE POLE 4-PLUG JOB NO. 24-45149 DATE 9/19/24 BY JRH FOR MATCH PLATE: ME 9937 # P= (292 PLF) (16-6°) = 4818# TE = (9937#)(12"/1) (9")(2 BUTS) - 6625#/BOLT @ 1\$ A325: Rn = UPUHITINS = 7684# > 6625# 08 52 1.50 11 = 0.20 Dv = 1.13 nf = 1.0 Th = 61000# 15=1.0 MR E (2) (6625#) (2.5"); 83125#" tmin = V (147(33125#") (3600 Par/1.67) (12") = 0.716" 2 1" 0K COLUMN: CONSIDER ONLY I CANOPY SIDE LOADED FOR MOMENT (CONSERVATIVE) M TOP & 9937#" PB. = \$ 4818# PL, Top = (16-6")(1-0")(27.27 PSF) + 450# MITTAL = 9937# + (450 +)(11-4")= 15037# Prophe = 4818++(27.48 P.K)(11') = 5120+ MALL 2 32400# > 15037 H'OK PAU 2 78600 # > 5120 # 05 5120# + 3 (15037#), 0,478 < 1.0 0K WELD: SW = (+) (743/8°)2 (0.70%)(3/8°) = 11.32 IN3 MALL 2 (0.60) (70000 M) (11.32 M³) = 19820^H > 15037^H OK (TOP & BUTTOM) (12"11)(2.0) BASE PLATE To = (1505 (141)(12"/1) = 10025 # (9")(2 ANCHORS) = 10025 # MR = (2)(10025#)(2.1") = 42104# LMIN = √ (4)(42104 M1) (36000 m]1.67)(12") = 0.807" 21" 3€

SUBJECT IONNA CANODY SINGLE POLE 4-PLUG FOR AGI BY SHEET NO. _____OF___ JOB NO. _____45149 16 BY JPH RBA STRUCTURAL ENGINEERING, LLC DATE 9/19/24 UPLIFT CHECK WIND: (0.6) (29.48 PSF) (16-6) (5-0") = 1460 # DEAD: (06) [(5 RF)(16'6')(5'0") + (4)(9R+)(5'0") + (16'6")(15.62 PLF) + (11')(27.48PLF) SUPERSTRUCTURE = 691# FOUNDATION: (0.6)(5'-3')(5'-3')(3'-0")(150 PEF)= 7441# 7441 + 691 + = 8132 + > 1460 + OK

Project	iONNA Ca	nopy		ROSS BRYA	N ASSOC	ATES, INC.	Sheet No.	6	of	16
Model	Single Pol	e 4-Plug		CONSUL	TING ENG	SINEERS	Job No.	24 4514	9	
Ву	JRH			NA	SHVILLE,	TN	Date	9/19/24	1	
CHECK FO	DUNDATIO	<u>NS</u> :								
LRFD Loa	d Combina	tions:	1.2D + 1.0W				ASCE 7-16	, Section 2	2.3	
Resistance	ce Factors:	Φ_{plain} =	0.6				ACI 318			
		Φ _v =	0.75				ACI 318			
		$\Phi_{\rm b}$ =	0.9				ACI 318			
f' _c =	2500	psi								
p _a =	150	psf/ft								
q _a =	2000	psf								
Total Service Wind Load: $P_w = 0.45$ kips										
Total Ser	vice Mome	ent at Base:	M =	15.04 l	k-ft					
Rectangu	ılar Spread	Foundation	:							
Longth	_	F 2F	<i>с</i> .		5.25	£1.	Douth -		£1.	
Length	-	5.25	11.	width =	5.25	π.	Depth =	4	Π.	
Dead L	oad, P _d =		16.54	kips						
Overtu	rning Mom	ient, M _o =	17.06	k-ft						
Resistiv	ve Moment	t, M _r =	43.41	k-ft	$M_r/M_o =$	2.54	>	1.5	<u>O.K.</u>	
Eccent	ricity, e = N	1/P _d =	0.91	ft.	kern, k =	0.88	ft.		e > k	
Bearing	g Pressure,	q _{max} =	1223.97	psf	<	q _a =	2000	psf	<u>O.K.</u>	
Mome	nt in Footir	ng M _u =	23.38	k-ft l	No Reinfo	rcing Requi	red - Use N	linimum S	Steel	
Use	6	No.	7	Bars Top an	nd Bottom	- Length.				
Use	6	No.	7	Bars Top an	nd bottom	- Width.				
Mome	nt Capacity	, ΦM _n =	710.37	k-ft	>	M _u =	23.38	k-ft	<u>O.K.</u>	
Check	Shear, V _u =		N/A	:	*See Note	Below				
Shear (Capacity, Φ	*V _u =	40.11	kips/ft						



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Company:Ross Bryan AssociatesAddress:Phone I Fax:Design:iONNA Canopy Single Pole 4-PlugFastening point:

Page: Specifier: E-Mail: Date: 7 Jacob R. Holloway

9/19/2024

Specifier's comments:

1 Input data

Anchor type and diameter:	Hex Head ASTM F 1554 GR. 36 1
Item number:	not available
Specification text:	Hilti Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use
Effective embedment depth:	h _{ef} = 25.000 in.
Material:	ASTM F 1554
Evaluation Service Report:	Hilti Technical Data
Issued I Valid:	- -
Proof:	Design Method ACI 318-19 / CIP
Stand-off installation:	e _b = 0.000 in. (no stand-off); t = 0.500 in.
Anchor plate ^R :	$l_x x l_y x t = 12.000$ in. x 12.000 in. x 1.000 in.; (Recommended plate thickness: not calculated)
Profile:	Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in. x 0.375 in.
Base material:	uncracked concrete, 2500, $\rm f_c'$ = 2,500 psi; h = 36.000 in.
Reinforcement:	tension: not present, shear: not present;
	edge reinforcement: none or < No. 4 bar

 $^{\rm R}$ - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [lb, in.lb]





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Phone Fax:	(615) 329-1300	E-Mail:	Jacob R. Holloway
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			
1.1 Design results			

In Boolgi roodia	5			
Case	Description	Forces [lb] / Moments [in.lb]	Seismic	Max. Util. Anchor [%]
1	Combination 1	$N = 0; V_x = 750; V_y = 0;$	no	69
		$M_x = 0; M_y = 300,740; M_z = 0;$		

2 Load case/Resulting anchor forces

Anchor reactions [Ib] Tension force: (+Tension, -Compression)					
Anchor	Tension force	Shear force	Shear force x	Shear force y	
1	15,700	188	188	0	
2	0	188	188	0	
3	15,700	188	188	0	
4	0	188	188	0	
Max. concrete co Max. concrete co Resulting tension Resulting compre	ompressive strain: ompressive stress: n force in (x/y)=(-4.5 ession force in (x/y):	0.37 [‰] 1,631 [psi] 31,400 [lb] 31,400 [lb]			



Anchor forces are calculated based on the assumption of a rigid anchor plate.

3 Tension load

	Load N _{ua} [lb]	Capacity ଦ N _n [lb]	Utilization $\beta_N = N_{ua} / \Phi N_n$	Status	
Steel Strength*	15,700	26,361	60	OK	
Pullout Strength*	15,700	22,795	69	OK	
Concrete Breakout Failure**	31,400	98,994	32	OK	
Concrete Side-Face Blowout, direction **	N/A	N/A	N/A	N/A	

* highest loaded anchor **anchor group (anchors in tension)



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Phone I Fax:	(615) 329-1300	E-Mail:	
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

3.1 Steel Strength

N _{sa}	= A _{se.N} f _{uta}	ACI 318-19 Eq. (17.6.1.2)
φ N _{sa}	$> N_{\mu a}$	ACI 318-19 Table 17.5.2

Variables

A _{se,N} [in. ²]	f _{uta} [psi]
0.61	58,000

Calculations

N_{sa} [lb] 35,148

Results

N _{sa} [lb]	φ _{steel}	φ N _{sa} [lb]	N _{ua} [lb]
35,148	0.750	26,361	15,700

3.2 Pullout Strength

N _{pN}	$= \psi_{c,p} N_p$	ACI 318-19 Eq. (17.6.3.1)
N _p	$= 8 A_{brg} f_{c}$	ACI 318-19 Eq. (17.6.3.2.2a)
φ Ν _{pN}	$1 \ge N_{ua}$	ACI 318-19 Table 17.5.2

Variables

$\Psi_{c,p}$	A _{brg} [in. ²]	λ _a	f _c [psi]
1.400	1.16	1.000	2,500
Calculations			
N _p [lb]	_		
23,260			
Results			
N _{pn} [lb]	ϕ_{concrete}	φ N _{pn} [lb]	N _{ua} [lb]
32,564	0.700	22,795	15,700



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Fastening point:			

3.3 Concrete Breakout Failure

N _{cbg}	$= \begin{pmatrix} A_{NC} \\ \overline{A_{NC0}} \end{pmatrix} \Psi_{ec,N} \Psi_{ed,N} \Psi_{c,N} \Psi_{cp,N} N_{b}$	ACI 318-19 Eq. (17.6.2.1b)
φ N _{cbg}	$\geq N_{ua}$	ACI 318-19 Table 17.5.2
A _{Nc}	see ACI 318-19, Section 17.6.2.1, Fig. R 17.6.2.1(b)	
A _{Nc0}	= 9 h _{ef} ²	ACI 318-19 Eq. (17.6.2.1.4)
$\psi_{\text{ec,N}}$	$= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \leq 1.0$	ACI 318-19 Eq. (17.6.2.3.1)
$\psi_{\text{ed},\text{N}}$	$= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$	ACI 318-19 Eq. (17.6.2.4.1b)
$\psi_{\text{ cp},\text{N}}$	$= MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.6.1b)
N _b	= 16 $\lambda_a \sqrt{f_c} h_{ef}^{5/3}$	ACI 318-19 Eq. (17.6.2.2.3)

Variables

h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]	$\psi_{\text{ c,N}}$
24.000	0.000	0.000	27.000	1.250
c _{ac} [in.]	k _c	λ_{a}	f _c [psi]	
-	16	1.000	2,500	

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\Psi_{\text{ec1,N}}$	$\psi_{\text{ec2,N}}$	$\psi_{\text{ed},\text{N}}$	$\psi_{\text{cp},\text{N}}$	N _b [lb]
3,969.00	5,184.00	1.000	1.000	0.925	1.000	159,750
Results						
N _{cbg} [lb]	ϕ_{concrete}	φ N _{cbg} [lb]	N _{ua} [lb]			
141,420	0.700	98,994	31,400	-		



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Company:	Ross Bryan Associates	Page:	11
Address:		Specifier:	Jacob R. Holloway
Phone I Fax:	(615) 329-1300	E-Mail:	-
Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

4 Shear load

	Load V _{ua} [lb]	Capacity ଦ V _n [lb]	Utilization $\beta_{\rm V} = V_{\rm ua} / \Phi V_{\rm n}$	Status
Steel Strength*	188	13,708	2	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength**	750	235,582	1	OK
Concrete edge failure in direction x+**	750	41,967	2	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa}	= 0.6 $A_{se,V} f_{uta}$	ACI 318-19 Eq. (17.7.1.2b)
φ V _{ste}	$e_{l} \ge V_{ua}$	ACI 318-19 Table 17.5.2

Variables

A _{se,V} [in. ²]	f _{uta} [psi]	
0.61	58,000	
Calculations		
V _{sa} [lb]		

21,089

Results

V _{sa} [lb]	φ _{steel}	♦ V _{sa} [lb]	V _{ua} [lb]
21,089	0.650	13,708	188



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Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

4.2 Pryout Strength

V_{cpg}	$= k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_{b} \right]$	ACI 318-19 Eq. (17.7.3.1b)
φ V _{cpg}	$_{1} \geq V_{ua}$	ACI 318-19 Table 17.5.2
A _{Nc}	see ACI 318-19, Section 17.6.2.1, Fig. R 17.6.2.1(b)	
A _{Nc0}	= 9 h _{ef} ²	ACI 318-19 Eq. (17.6.2.1.4)
$\psi_{\text{ec,N}}$	$= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.3.1)
$\psi_{\text{ed,N}}$	$= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$	ACI 318-19 Eq. (17.6.2.4.1b)
$\psi_{\text{ cp},\text{N}}$	$= MAX\left(\frac{c_{a,\min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \le 1.0$	ACI 318-19 Eq. (17.6.2.6.1b)
N _b	= 16 $\lambda_a \sqrt{f_c} h_{ef}^{5/3}$	ACI 318-19 Eq. (17.6.2.2.3)

Variables

k _{cp}	h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]
2	18.000	0.000	0.000	27.000
$\Psi_{c,N}$	c _{ac} [in.]	k _c	λ _a	f _c [psi]
1.250	~	16	1.000	2,500

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\Psi_{\text{ec1,N}}$	$\Psi_{ec2,N}$	$\psi_{\text{ed},\text{N}}$	$\psi_{\text{cp},\text{N}}$	N _b [lb]
3,969.00	2,916.00	1.000	1.000	1.000	1.000	98,903
Results						
V _{cpg} [lb]	ϕ_{concrete}	φ V _{cpg} [lb]	V _{ua} [lb]			
336,546	0.700	235,582	750	_		



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Fastening point:			

4.3 Concrete edge failure in direction x+

$V_{\rm cbg}$	$= \begin{pmatrix} A_{V_{C}} \\ \overline{A_{V_{C}0}} \end{pmatrix} \Psi_{ec,V} \Psi_{ed,V} \Psi_{c,V} \Psi_{h,V} \Psi_{parallel,V} V_{b}$	ACI 318-19 Eq. (17.7.2.1b)
φ V _{cbg}	$\geq V_{ua}$	ACI 318-19 Table 17.5.2
A _{Vc}	see ACI 318-19, Section 17.7.2.1, Fig. R 17.7.2.1(b)	
A_{Vc0}	= 4.5 c_{a1}^2	ACI 318-19 Eq. (17.7.2.1.3)
$\psi_{\text{ec,V}}$	$= \left(\frac{1}{1 + \frac{e_v}{1.5c_{a1}}}\right) \le 1.0$	ACI 318-19 Eq. (17.7.2.3.1)
$\psi_{\text{ed,V}}$	$= 0.7 + 0.3 \left(\frac{c_{a2}}{1.5c_{a1}} \right) \le 1.0$	ACI 318-19 Eq. (17.7.2.4.1b)
$\psi_{h,V}$	$=\sqrt{\frac{1.5c_{a1}}{h_a}} \ge 1.0$	ACI 318-19 Eq. (17.7.2.6.1)
V _b	$= 9 \lambda_a \sqrt{f_c} c_{a1}^{1.5}$	ACI 318-19 Eq. (17.7.2.2.1b)

Variables

c _{a1} [in.]	c _{a2} [in.]	e _{cV} [in.]	$\psi_{\text{ c,V}}$	h _a [in.]	
24.000	27.000	0.000	1.400	36.000	
l _e [in.]	λ _a	d _a [in.]	f _c [psi]	$\Psi_{\text{parallel},V}$	
8.000	1.000	1.000	2,500	1.000	
Calculations					
A _{vc} [in. ²]	A _{Vc0} [in. ²]	$\psi_{\text{ec,V}}$	$\psi_{\text{ed},\text{V}}$	$\Psi_{h,V}$	V _b [lb]
2,268.00	2,592.00	1.000	0.925	1.000	52,909
Results					
V _{cbg} [lb]	φ _{concrete}	∳ V _{cha} [lb]	V _{ua} [lb]		

750

5 Combined tension and shear loads, per ACI 318-19 section 17.8

0.700

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status	
0.689	0.018	5/3	54	OK	

41,967

 $\beta_{\mathsf{NV}} = \beta_{\mathsf{N}}^{\zeta} + \beta_{\mathsf{V}}^{\zeta} <= 1$

59,952


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Company:	Ross Bryan Associates	Page:	14
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Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2021, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/

Fastening meets the design criteria!



Hilti PROFIS Engineering 3.1.3

www.hilti.com

Company: Ross Bryan Associates Page: Address: Specifier: Jacob R. Holloway Phone I Fax: E-Mail: (615) 329-1300 | Design: iONNA Canopy Single Pole 4-Plug Date: 9/19/2024 Fastening point:

7 Installation data

Profile: Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in. x 0.375 in.

Hole diameter in the fixture: $d_f = 1.062$ in.

Plate thickness (input): 1.000 in.

Recommended plate thickness: not calculated

Anchor type and diameter: Hex Head ASTM F 1554 GR. 36 1 Item number: not available Maximum installation torque: -Hole diameter in the base material: - in. Hole depth in the base material: 25.000 in.

15

Minimum thickness of the base material: 26.172 in.

Hilti Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use



Coordinates Anchor [in.]

Anchor	x	У	C _{-x}	c _{+x}	C_y	c _{+y}
1	-4.500	-4.500	27.000	36.000	27.000	36.000
2	4.500	-4.500	36.000	27.000	27.000	36.000
3	-4.500	4.500	27.000	36.000	36.000	27.000
4	4.500	4.500	36.000	27.000	36.000	27.000

Input data and results must be checked for conformity with the existing conditions and for plausibility! PROFIS Engineering (c) 2003-2024 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



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Company:	Ross Bryan Associates	Page:	16
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Design:	iONNA Canopy Single Pole 4-Plug	Date:	9/19/2024
Fastening point:			

8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the
 regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use
 the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each
 case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data
 or programs, arising from a culpable breach of duty by you.

iONNA CANOPY CONCEPT

PROJECT MANAGER

DESIGN SPECIALIST BEN WEIENETH

SHEET INDEX

C01	COVER
P01	PLANS
E01	ELEVATIONS
S01	SECTIONS
D01	DETAILS



APPROVAL

NAME

ORGANIZATION

TITLE

APPROVED

APPROVED AS NOTED

REVISE & RESUBMIT



Architectural Branding - Atlanta

218 River Drive Cartersville, GA 30120 800-877-7868 www.AGI.net



OTHER MATERIALS

- PLYWOOD (3/4" CDX)
- VAPROSHIELD IT / SA
- SHEET METAL (TRIM)
- NON STD. SCREW
- SIGNAGE
- **OTHER SEE NOTES**

GENERAL NOTES:

- 5. ALL EXPOSED HARDWARE TO BE GALVANIZED.
- 7. REMOVE ALL SHARP EDGES & BURRS.

PROJECT iONNA CANOPY CONCEPT	
•••	
ARCHITECT	

DRAWN BY	
JOB #	
DATE 9/19/24	







2 TOP VIEW P01 REF:



	3 REFLECTED CEILIN	G PLAN
	TOT KEF:	
PROJECT	DRAWN BY	REV# DATE
iONNA CANOPY CONCEPT	BJW	
	JOB #	
ARCHITECT	DATE	
	9/19/24	

1" = 1'-0"



1" = 1'-0"

DATE	COMMENTS









1. MATERIALS: CONCRETE – 2,500 PSI MIN. AND COMPLIANT WITH APPROPRIATE ACI 318 EXPOSURE CLASS DESIGN CRITERIA BASED ON SITE CONDITIONS; REINFORCING STEEL – ASTM A615 OR ASTM A706, GRADE 60. 2. PROVIDE 3" MIN. CLEAR COVER TO ALL REINFORCING AND TO BOTTOM OF

3. FOUNDATION DESIGN BASED ON CLASS 4 SOIL PRESUMPTIVE LOAD-BEARING VALUES PER IBC TABLE 1806.2 (ALLOWABLE VERTICAL BEARING PRESSURE = 2,000 PSF; ALLOWABLE LATERAL BEARING PRESSURE = 150 PSF/FT). ACTUAL SOIL CONDITIONS TO BE VERIFIED IN FIELD.





ARCHITECT

...







D01 REF:



6" = 1'-0"



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PROJECT NNA CANOPY CONCEPT	DRAWN BY	V # DA	TE	COMMENTS
			•	
	JOB #	\rightarrow		
•••		\rightarrow		
ARCHITECT	DATE			
	9/19/24			

RBA Structural Engineering, LLC Engineers 1 Vantage Way, Suite B400 Nashville TN 37228 DESIGNED IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE ASCE 7-16 "SEALED FOR STRUCTURAL COMPONENTS ONLY" It is unlawful to alter this document as sealed by a professional engineer.









18th November 2024

City of Portsmouth, New Hampshire AGI Ionna EV Charging

For the new EV Charging installation at 1600 Woodbury Ave; the construction of the new electric vehicle (EV) charging site will prioritize the use of sustainable building materials to minimize environmental impact and promote long-term sustainability.

Key strategies include:

<u>Recycled Materials:</u> Wherever possible, the project will incorporate recycled materials, such as reclaimed wood, recycled steel, and glass, reducing the demand for virgin resources and diverting waste from landfills.

Low-Impact Foundations: We will use low-impact foundation methods, such as pervious concrete, which allows rainwater to seep through and helps reduce runoff, supporting stormwater management and promoting groundwater recharge.

Sustainable Landscaping: Native plants and drought-tolerant landscaping will be used around the site, reducing the need for water-intensive irrigation, and supporting local biodiversity.

Energy-Efficient Lighting: The site will incorporate LED lighting for both the charging areas and surrounding spaces. LEDs consume less energy, have a longer lifespan, and provide high-quality illumination, reducing energy consumption significantly.

<u>Smart Energy Management</u>: Advanced energy management systems will be installed to optimize electricity usage, allowing for real-time monitoring of energy demand, and minimizing waste. This system can automatically adjust power needs to individual dispensers for charging efficiency.

Stormwater Management Systems: The design will utilize the existing parking lots storm water management systems to manage runoff before it reaches nearby water systems. This helps prevent pollution and supports water quality.

<u>Efficient Site Management</u>: We will implement a construction waste management plan to monitor and track all waste generated during the project. This will help identify opportunities to reduce, reuse, or recycle materials, and ensure that the amount of waste sent to landfills is minimized.

By using these sustainable building materials and practices, the new EV charging site will not only support the transition to cleaner transportation but also contribute to environmental conservation and the reduction of carbon emissions.

Regards, Dallas Pelland / Dallas Pelland / Client Manager



IONNA EV Charger Maintenance Plan for Whole Foods, Portsmouth, NH

Standard Preventative Maintenance SOW

1. Standard Preventative Maintenance is outlined below, as recommended by manufacturuer of charging stations. For this location, the Alpitronics Hypercharger maintenance guide is followed.

The following services are also provided to ensure adequate uptimes.

- 2. Provide and catalogue photos to document the condition of all charging equipment, protective wheel stops & bollards and pavement markings, and other (each elevation).
- 3. Note potential obstructions that might limit access or charger visibility.
- 4. Use mild detergent to clean charging equipment.
- 5. Make safe and report any visible conditions that pose a risk to the general public and facility employees.
- 6. Create and distribute Corrective Action Reports to document and initiate customer generated reactive service request.
- 7. Maintain and provide customer access to all service records including but not necessary limited to photographs, completion checklist, completion dates, service tech information, Corrective Action Reports, etc.





Aalpitronic

HYC_400UL – Installation and Maintenance Manual Version 1-2 10 PREVENTIVE MAINTENANCE

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10. PREVENTIVE MAINTENANCE

For the safe operation of the charging station, annual maintenance of the charging station and a check of its safety devices is required. Depending on the installation location of the charging station and the environmental influences prevailing there (such as dirt, moisture, etc.), shorter maintenance intervals may also be necessary for certain components. Regular inspection is therefore recommended.

WARNING



Adhere to all safety warnings outlined in Chapter 1 of this manual.

CAUTION



The preventive maintenance of the charging stations must only be carried out by professionally qualified individuals, as per local regulations and safety standards. These individuals must also have successfully completed the mandatory training courses prescribed by Alpitronic.

All of the following preventive maintenance work is mandatory. These must be carried out by filling out the **digital maintenance protocol** on Hyperdoc and sending it (including photo documentation) to Alpitronic.



Failure to perform preventive maintenance properly and in accordance with this manual may lead to loss or limitation of warranty or liability in case of damages on the Product(s) or goods belonging to third parties or injuries to third parties. The same applies when the maintenance protocol is not properly completed or not sent to Alpitronic.

For Hyperdoc registration: <u>https://account.hypercharger.us/register</u> (the digital protocols are only available to appropriately trained technicians (see above).

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HYC_400UL – Installation and Maintenance Manual Version 1-2

10 PREVENTIVE MAINTENANCE

Aalpitronic

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Depending on the individual operating conditions of the Hypercharger, further maintenance work may be necessary. Therefore, the following list should not be taken as complete.

Maintenance work	Description			
External visual inspection	 Condition of housing NEMA rating (3R) Stability Accessibility Credit card terminal (if available) 			
Checking charging cables & plugs	 Checking all cable parts (cable sleeve, cable, cable plug, mating face, pins) for the absence of damage (e.g. cable sheath intact, no crushing or cracks, pins undamaged, cable intact at transfer point, etc.) Are all outside cable glands tight? 			
Checking the sealing of the input conductors	Visually verify that the input conductors are properly sealed and tight			
Checking screws	 Visual random check of internal screw connections Random check of tightening torques 			
Check the cooling unit (if available), and replace coolant if necessary	 Filling level Connection Absence of air pockets & creases 			
Check for cleanliness	Check the cleanliness inside the charging station			
Check condensation	Check for the absence of traces of condensation inside the charging station			
Check and replace filter mats if necessary	Checking for integrity and contamination			
Review of protective measures	 Visual inspection of the earthing system Test earthing resistance Test continuity of the equipotential bonding connections 			
Check the supply line (only if there is no commissioning protocol)	 Testing the insulation resistance on the busbars of the input switchgear Information on the existing protective device Check short-circuit current 			
Checking insulation resistance of DC charging outlets	Check the insulation resistance of the pins for each existing DC charging outlet			
Check overvoltage protection	Check the optical defect display of the overvoltage protection			
Check residual current protective devices	Functional test of the circuit breakers with residual current monitoring			
Touch protection	Check whether all protective covers have been correctly attached			
Check RFID reader	Functional test of the RFID reader			
Check connectivity of SIM cards	Check the connection to the Alpitronic backend Check the connection to the customer backend			
Check display elements	 Functional test of the display + button Functional test of the screen display and, if necessary, the touch screen of the credit card terminal 			
Verification of LED rings	Eurotional test of the LED rings on the connectors			

Table 25: Annual maintenance work

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Aalpitronic HYC_400UL – Installation and Maintenance Manual Version 1-2 Page 91 of 98 **11 REPARATION AND SERVICE** 11. REPARATION AND SERVICE The modular design of the Hypercharger enables easy repair of defective components. WARNING Adhere to all safety warnings outlined in Chapter 1 of this manual. CAUTION Please note that repairs to the Hypercharger are only carried out by professionally qualified individuals, as per local regulations and safety standards. All necessary legal and safety measures must be observed! The specific safety measures for repairs and upgrades can be found in the corresponding instructions. Be sure to consult Hypercharger support before repairs are carried out. support@hypercharger.us or +1 866-881-0090. Every repair and every component replacement must be reported to support@hypercharger.us, including the serial numbers of the individual parts. NOTICE To order spare parts, contact aftersales@hypercharger.it. The Hypercharger support is available around the clock (24/7) by phone on +1 866-881-0090 or by email (support@hypercharger.us).

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Standard Reactive Maintenance SOW

<u>REACTIVE SERVICE</u>: Intended to provide priority service outside of the Preventative Maintenance program. Reactive Service is initiated as follows:

- 1. Customer-Initiated Service Request
 - a. Service request shall be submitted directly or through the customer's service platform of choice. All requests shall be directed to the Service Dispatch Email
 - b. All customer-initiated service request will have an NTE of \$1,500.00
 - c. If in the event estimated service exceeds the NTE, a formal proposal shall be submitted for customer approval prior to beginning work. If in the event, the NTE increase is not approved, invoices will be processed for diagnostic services only that were rendered
 - d. Final invoices will be submitted with before/after photos and other documentation requested by customer to verify work performed.
 - e. Reactive Service will be performed on a time and material basis in accordance with the Reactive Service Fee Schedule (see Attachment A)
- 2. Product Inventory
 - a. Customer shall maintain an ample supply of maintenance kits for the sole purpose of performing reactive maintenance service.
 - i. AGI will determine the min-max quantities of maintenance kits customer shall have on hand. Min-max quantities shall be updated quarterly based upon EV Charging units in the program and reactive maintenance frequency. Each maintenance
 - ii. Kits will contain the following:
 - 1. Prepaid return shipment labels and reusable packaging suitable for return of unused and inoperative components to customer.
 - 2. Kit shall contain replacement parts for the five (5) most common component failures
 - a. Part No. 1
 - b. Part No. 2
 - c. Part No. 3
 - d. Part No. 4
 - e. Part No. 5
 - 3. Kit parts list is subject to change
 - iii. Customer shall ship maintenance kits to AGI service technician to facilitate repairs.
 - iv. Service dispatches are scheduled once maintenance kits are received by AGI service technicians.
 - v. AGI will provide tracking numbers for all returned maintenance kit shipments.





- 3. Service Requirements.
 - a. All service requests shall be acknowledged within 24 hours
 - b. Service types shall dictate the SLA as follows:
 - i. P1-Critical: Incidents which create a liability and demand an immediate response. 4-to-8-hour response required. P1-Critical service is a "Make Safe" response and generally doesn't result in repair on the first trip.
 - ii. P2-High: Customer request an investigative assessment of equipment prior to shipping the Maintenance Kit. 24-to-48-hour response required
 - iii. P3-Medium: Service request that are non-critical and pose no risk to the public. 5–7 day response from receipt of customer provide Maintenance Kit
 - iv. P4-Low: Service request that have limited impact on equipment operations. This SLA is generally for schedule services beyond traditional break-fix maintenance. 30-day response required.
 - c. All invoices shall be submitted for payment within 30 days of completion
 - d. When possible, service should be completed on the first trip. The Customer is expected to maintain adequate inventory of Maintenance Kits to maximize first trip completions.





City of Portsmouth, New Hampshire

Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. The checklist is required to be completed and uploaded to the Site Plan application in the City's online permitting system. A preapplication conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. Waiver requests must be submitted in writing with appropriate justification.

Site Address: 1600 Woodbury Ave Map: 238 Lot: 16

Application Requirements \mathbf{M} **Required Items for Submittal Item Location** Waiver (e.g. Page or Requested Plan Sheet/Note #) Complete application form submitted via the City's web-based N/A permitting program (2.5.2.1(2.5.2.3A) All application documents, plans, supporting documentation and N/A other materials uploaded to the application form in viewpoint in digital Portable Document Format (PDF). One hard copy of all plans and materials shall be submitted to the Planning Department by the published deadline. (2.5.2.8)

	Site Plan Review Application Required Information						
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested				
	Statement that lists and describes "green" building components and systems. (2.5.3.1B)	Separate Document					
	Existing and proposed gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1C)	C-1.0 & Survey	N/A				
	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1D)	C-1.0	N/A				

Site Plan Review Application Required Information			
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1E)	C-1.0	N/A
	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1F)	C-1.0	N/A
	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1G)	T-1.0	N/A
	List of reference plans. (2.5.3.1H)	T-1.0	N/A
	List of names and contact information of all public or private utilities servicing the site. (2.5.3.1)	Survey	N/A

	Site Plan Specifications		
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	Full size plans shall not be larger than 22 inches by 34 inches with match lines as required, unless approved by the Planning Director (2.5.4.1A)	Required on all plan sheets	N/A
	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be included on all plans. (2.5.4.1B)	Required on all plan sheets	N/A
	GIS data should be referenced to the coordinate system New Hampshire State Plane, NAD83 (1996), with units in feet. (2.5.4.1C)	Survey	N/A
	Plans shall be drawn to scale and stamped by a NH licensed civil engineer. (2.5.4.1D)	Required on all plan sheets	N/A
	Wetlands shall be delineated by a NH certified wetlands scientist and so stamped. (2.5.4.1E)	Survey	N/A
	Title (name of development project), north point, scale, legend. (2.5.4.2A)	Survey	N/A
	Date plans first submitted, date and explanation of revisions. (2.5.4.2B)	Border, all sheets	N/A
	Individual plan sheet title that clearly describes the information that is displayed. (2.5.4.2C)	Required on all plan sheets	N/A
	Source and date of data displayed on the plan. (2.5.4.2D)	Survey	N/A

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Site Plan Specifications – Required Exhibits	and Data	
Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
 Existing Conditions: (2.5.4.3A) Surveyed plan of site showing existing natural and built features; Existing building footprints and gross floor area; Existing parking areas and number of parking spaces provided; Zoning district boundaries; Existing, required, and proposed dimensional zoning requirements including building and open space coverage, yards and/or setbacks, and dwelling units per acre; Existing impervious and disturbed areas; Limits and type of existing vegetation; Wetland delineation, wetland function and value assessment (including vernal pools); SFHA, 100-year flood elevation line and BFE data, as required. 	Survey	
 2. Buildings and Structures: (2.5.4.3B) Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation; Elevations: Height, massing, placement, materials, lighting, façade treatments; Total Floor Area; Number of Usable Floors; Gross floor area by floor and use. 	C-1.2, SA Package	
 Access and Circulation: (2.5.4.3C) Location/width of access ways within site; Location of curbing, right of ways, edge of pavement and sidewalks; Location, type, size and design of traffic signing (pavement markings); Names/layout of existing abutting streets; Driveway curb cuts for abutting prop. and public roads; If subdivision; Names of all roads, right of way lines and easements noted; AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC). 	Survey	
 4. Parking and Loading: (2.5.4.3D) Location of off street parking/loading areas, landscaped areas/buffers; Parking Calculations (# required and the # provided). 	Survey	
 5. Water Infrastructure: (2.5.4.3E) Size, type and location of water mains, shut-offs, hydrants & Engineering data; Location of wells and monitoring wells (include protective radii). 	Survey	
 6. Sewer Infrastructure: (2.5.4.3F) Size, type and location of sanitary sewage facilities & Engineering data, including any onsite temporary facilities during construction period. 	Survey	

Site Plan Application Checklist/December 2020

	7. Utilities: (2.5.4.3G)	
	• The size, type and location of all above & below ground utilities;	E-1.0 &
	• Size type and location of generator pads, transformers and other	Survey
	fixtures.	
	8. Solid Waste Facilities: (2.5.4.3H)	Survey
	• The size, type and location of solid waste facilities.	Survey
	9. Storm water Management: (2.5.4.3I)	
	• The location, elevation and layout of all storm-water drainage.	
	• The location of onsite snow storage areas and/or proposed off-	
	site snow removal provisions.	Survey
	 Location and containment measures for any salt storage facilities 	
	Location of proposed temporary and permanent material storage	
	locations and distance from wetlands, water bodies, and	
	stormwater structures.	
	10. Outdoor Lighting: (2.5.4.3J)	Photometric
	 Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and photometric plan 	Package
	and any other areas of the site) and photometric plan.	Dhotomotric
	hoon implemented (10.1)	Photometric
	12 Londssoning: (2 E 4 2K)	Раскаде
	12. Lanuscaping: (2.3.4.3K) Identify all undisturbed area. existing vegetation and that	
	which is to be retained:	C-1.3
	 Location of any irrigation system and water source. 	
	13. Contours and Elevation: (2.5.4.3L)	
	 Existing/Proposed contours (2 foot minimum) and finished 	Survey
	grade elevations.	
$\mathbf{\nabla}$	14. Open Space: (2.5.4.3M)	
	• Type, extent and location of all existing/proposed open space.	C-1.3
	15 All essements deed restrictions and non-public rights of	
	ways. (2.5.4.3N)	Survey
	16. Character/Civic District (All following information shall be	
	included): (2.5.4.3P)	
	• Applicable Building Height (10.5A21.20 & 10.5A43.30);	
	Applicable Special Requirements (10.5A21.30);	C-1.2
	 Proposed building form/type (10.5A43); 	
	• Proposed community space (10.5A46).	
\mathbf{M}	17. Special Flood Hazard Areas (2.5.4.3Q)	
	 The proposed development is consistent with the need to minimize fleed demage: 	
	minimize flood damage;	Survey
	 All public utilities and facilities are located and construction to minimize or eliminate flood damage: 	
	 Adequate drainage is provided so as to reduce exposure to 	
	flood hazards.	

	Other Required Information			
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested	
	Traffic Impact Study or Trip Generation Report, as required. (3.2.1-2)		N/A	
	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	Separate Document		
	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	C-1.0		
\checkmark	Stormwater Management and Erosion Control Plan. (7.4)	C-1.4		
	Inspection and Maintenance Plan (7.6.5)	Separate Document		

	Final Site Plan Approval Required Information		
$\mathbf{\overline{N}}$	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	All local approvals, permits, easements and licenses required, including but not limited to: • Waivers; • Driveway permits; • Special exceptions; • Variances granted; • Easements; • Licenses. (2.5.3.2A)	Survey	
	 Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: Calculations relating to stormwater runoff; Information on composition and quantity of water demand and wastewater generated; Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; Estimates of traffic generation and counts pre- and post-construction; Estimates of noise generation; A Stormwater Management and Erosion Control Plan; Endangered species and archaeological / historical studies; Wetland and water body (coastal and inland) delineations; Environmental impact studies. 	Survey	
	A document from each of the required private utility service providers indicating approval of the proposed site plan and indicating an ability to provide all required private utilities to the site. (2.5.3.2D)	Survey	

Site Plan Application Checklist/December 2020

Final Site Plan Approval Required Information			
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)		N/A
	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	C-1.0	N/A
	For site plans that involve land designated as "Special Flood Hazard Areas" (SFHA) by the National Flood Insurance Program (NFIP) confirmation that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334. (2.5.4.2F)	Survey	
	 Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "All improvements shown on this Site Plan shall be constructed and maintained in accordance with the Plan by the property owner and all future property owners. No changes shall be made to this Site Plan without the express approval of the Portsmouth Planning Director." (2.13.3) 	C-1.0	N/A

Applicant's Signature: <u>*Emily Roseberry*</u> Date: <u>11/15/2024</u>