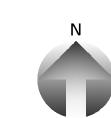


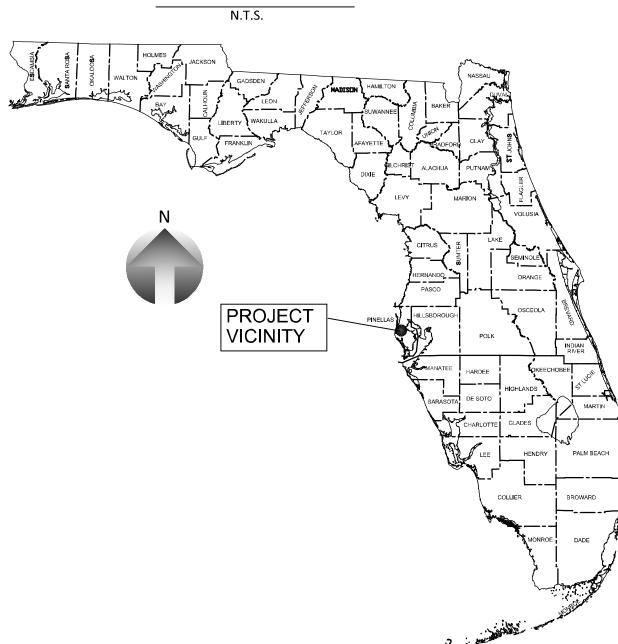
THE SKYVIEW CONDOMINIUMS

400 Cleveland Street Clearwater, Florida 33755

> FEMA MAP PANEL NO. 12103C0067G FLOOD ZONE X

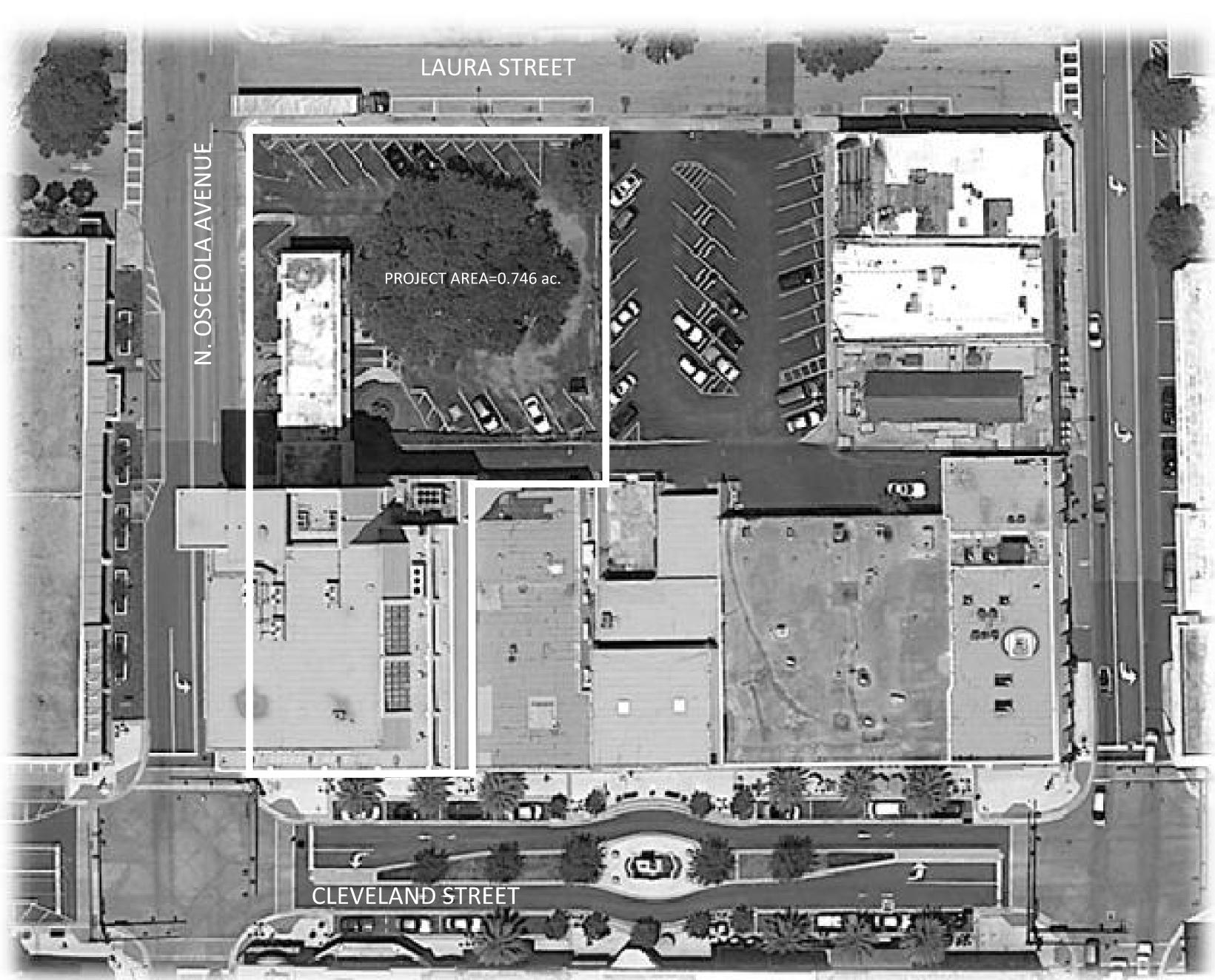






GOVERNING STANDARDS AND SPECIFICATIONS:
CITY OF CLEARWATER STANDARD DETAILS & SPECIFICATION DATED
FEBRUARY 2016.

FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED JANUARY 2015, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2013.



Google Earth

CDB SUBMITTAL SET
DATE: 10-09-15
BUILDING PLAN SUBMITTAL SET
DATE: 06-13-16
RE-SUBMITTED 09-01-16

, ... - .. - **,** .



SYNERGY Civil Engineering, Inc. 3000 Gulf to Bay Boulevard, Suite 201 Clearwater, FL 33759 Tel. (727)796-1926 Cell (727) 470-1344 www.synergycivileng.com

SYNERGY

Civil Engineering, Inc.

Prepared For:

400 CLEVELAND, LLC

400 Cleveland Street Clearwater, Florida 33755

Consultants

ARCHITECT

Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

LANDSCAPE ARCHITECT

Paradise by Design, inc.
320 Tucker Street
Safety Harbor, Florida 34695
Ph: (727) 797-3580
email: james@paradisebydesigninc.com

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Clearwater Gas System

400 North Myrtle Ave.

Clearwater, FL 33755

Utility Companies

Duke Energy Florida P.O. Box 14042 St. Petersburg, FL 33733 1-800-700-8744

1-800-700-8744 727-562-4900

Bright House Networks Water Utility Provider City of Clearwater St. Petersburg, FL 33716 100 S. Myrtle Ave.

Sanitary Sewer Utility Provider
City of Clearwater
100 S. Myrtle Ave.

Municipal Services Building
Clearwater, FL 33755
727-562-4600

100 S. Myrtle Ave. Municipal Services Building Clearwater, FL 33755 727-562-4600

Review Agencies

City of Clearwater Municipal Services Building 100 S. Myrtle Ave. Clearwater, FL 33756-5520

Titla

COVER SHEET

P r oject No.	Scale:	Date:
02-012-98	AS NOTED	08-25-2015
Drawing No.	Sheet:	Revision No.

1 of **12**

FILE: C:\Users\Michael Palmer\Dropbox (SCEI)\SYNERGY PROJECTS\SCEI TEAM PROJECT FOLDER\02-012-9 PRINTED: 08/31/2016

ABOVE GROUND OR UNDER GROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT-PROCEED WITH CAUTION-CALL "SUNSHINE STATE ONE CALL SYSTEM" AND THE UTILITY OWNER'S) BEFORE BEGINNING WORK 1-800-432-4770. (48 HOURS IN ADVANCE)

UTILITY WARNING NOTE:

10

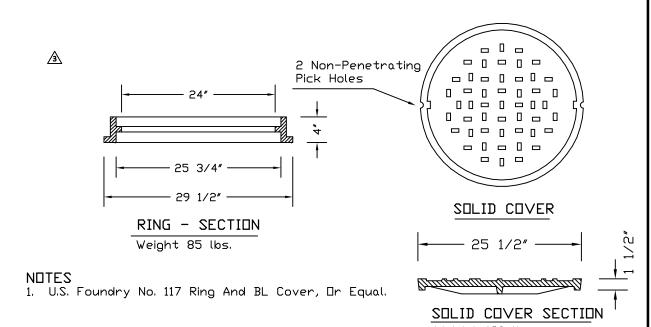
ANY UNSUITABLE MATERIAL FOUND DURING CONSTRUCTION (I.E., ORGANIC MATERIAL, DEBRIS AND SOFT SOIL) SHOULD BE EXCAVATED AND REPLACED WITH COMPACTED INORGANIC GRANULAR BACKFILL ALL BACKFILL SHOULD BE COMPACTED TO THE DENSITY SPECIFIED IN THIS SECTION. EXCAVATION OF UNSUITABLE MATERIAL SHOULD EXTEND A MINIMUM DISTANCE OF 10 FEET BEYOND THE FOOTPRINT OF THE PROPOSED STRUCTURE.

ALL STRUCTURAL FILL SHOULD BE COMPACTED WITH A MINIMUM WEIGHT 10-TON VIBRATORY ROLLER, FILL PLACED IN CONFINED AREAS THAT CANNOT BE REACHED BY THE LARGE ROLLER SHOULD BE COMPACTED BY SMALLER FOLLIPMENT THAT CAN OPERATE IN CONFINED AREAS THE LIFT THICKNESS SHOULD BE ADJUSTED TO OBTAIN OPTIMUM COMPACTION MEETING OF EXCEPTING THE REQUIREMENT DISCUSSED IN THE FOLLOWING PARAGRAPH, COMPACTION SHOULD CONSIST OF NO FEWER THAN 5 PASSES. IN A CRISS-CROSS PATTERN TO EXTEND 15 FEET BEYOND THE BUILDING FOOTPRINT, COMPACTION IN THIS MANNER WILL ALSO SERVE TO COLLAPSE ANY ZONE OF POTENTIAL SURFACE SETTLEMENT WHILE CREATING A WORKING MAT FOR SUCCESSIVE LIFTS OF FILL.

ALL FILL SHOULD BE INORGANIC AND FREE OF DEBRIS. FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 10 INCHES IN THICKNESS, EACH LIFT SHOULD RECEIVE A MINIMUM OF 5 PASSES OF THE VIBRATORY ROLLER, EACH LIFT SHOULD BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM D1557.

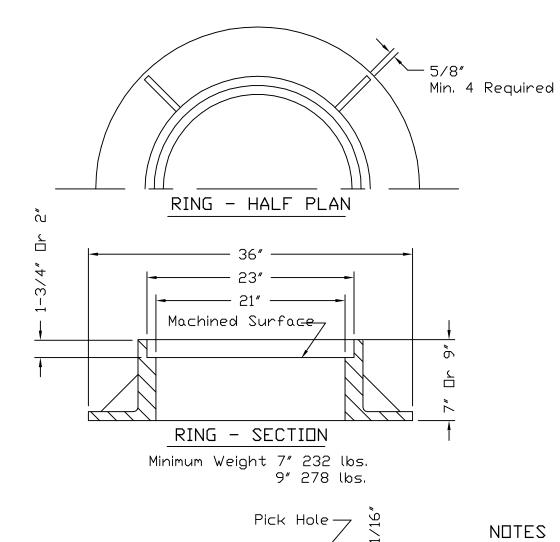
DENSITY TESTS SHOULD BE USED TO CONTROL SUBGRADE, FILL AND BACKFILL COMPACTION. DENSITY TESTS SHOULD BE PERFORMED AS DESCRIBED BELOW TO ASSURE UNIFORM

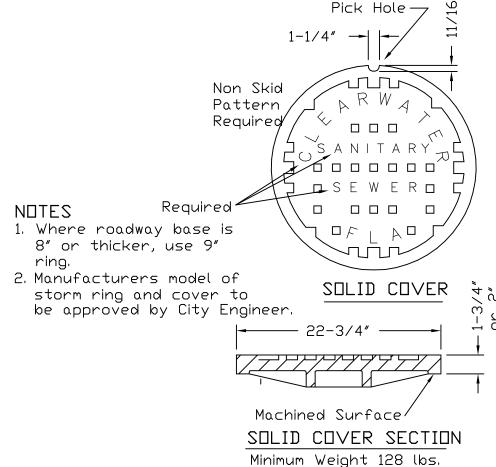
A MINIMUM TESTING FREQUENCY OF ONE DENSITY TEST PER 2,500 SQUARE FEET OF EACH LIFT OR FRACTION THEREOF SHOULD BE USED. IN ADDITION, A MINIMUM OF ONE DENSITY TEST PER 25 FFFT OF BEARING WALL SHOULD BE PERFORMED. ADDITIONAL TESTING SHOULD BE PERFORMED IN THE EXCAVATED FOOTING AREAS TO CONFIRM THAT EXCAVATION OPERATIONS HAVE NOT LOOSENED THE SUBGRADE.



SANITARY SEWER MANHOLE COVER

CITY INDEX NO. 301; 2 OF 2





SANITARY SEWER MANHOLE COVER

CITY INDEX NO. 301; 1 OF 2 N.T.S.

GENERAL CONSTRUCTION NOTES

- 1. SEE SURVEY FOR SITE SPECIFIC BENCH MARK AND ELEVATION DATUM.
- 2. LOCATIONS, DIMENSIONS AND ELEVATIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO STANDARD UTILITY ATLAS SHEETS OR OTHER INFORMATION OBTAINED AT THE TIME OF PREPARATION OF THESE PLANS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DIMENSIONS, AND ELEVATION OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND MAKE ARRANGEMENTS FOR REQUIRED RELOCATIONS WITH THE AFFECTED UTILITY. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY DURING RELOCATION OPERATIONS.
- 3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO ALL UTILITY COMPANIES BEFORE PERFORMING ANY EXCAVATION. THE CONTRACTOR SHALL HAVE UTILITY LOCATIONS MARKED BY CALLING "SUNSHINE" AT 1 800 432 4770 AT LEAST 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT INCLUDED IN THE "SUNSHINE" PROGRAM
- 4. CHAPTER 77 153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THESE PLANS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND THE GAS MAINS MUST BE FIFLD VERIFIED BY ON SITE INSPECTION BY GAS COMPANY PERSONNEL. EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE GAS COMPANY A MINIMUM OF TWO (2) WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
- 5. THE CONTRACTOR SHALL REVIEW THE PLANS FOR CONFLICTS OR OTHER DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK.
- 6. ALL PROPOSED UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED PRIOR TO PAVEMENT SURFACE COURSE
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE CONDITIONS AND INSPECTION REQUIREMENTS OF ALL PERMITS ISSUED FOR THE PROJECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SHALL SCHEDULE ALL INSPECTIONS IN ACCORDANCE WITH AGENCY REQUIREMENTS.
- 8. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.
- 9. THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH ALL APPLICABLE STATUTES, RULES, REGULATIONS AND PERMIT
- 10. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THE PROJECT. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE
- 11. AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER, AND APPROPRIATE PERMITTING AGENCIES OF THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER
- 12. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHERS. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES WITH OTHERS WHERE NECESSARY.
- 13. SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 PSI. AT 28 DAYS UNLESS OTHERWISE NOTED.
- 14. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN

EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.

REMEDIAL WORK REQUIRED UNTIL THE SYSTEM HAS BEEN ACCEPTED.

- 15. ALL DISTURBED AREAS THAT ARE NOT TO BE SODDED, ARE TO BE SEEDED AND MULCHED IN ACCORDANCE WITH FDOT STANDARDS. THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS UNTIL A SATISFACTORY STAND OF GRASS, ACCEPTABLE TO THE APPLICABLE REGULATORY AGENCIES, OWNER, AND ENGINEER, HAS BEEN ACHIEVED. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF ALL
- 16. ALL SODDED AND SEEDED AREAS BE WATERED AND FERTILIZED UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.
- 17. THE CONTRACTOR SHALL LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO FINAL ENGINEERING INSPECTION AND CERTIFICATION. THE CONTRACTOR SHALL BEAR ALL COSTS INCURRED AS A CONSEQUENCE OF LOST OR DISTURBED PROPERTY CORNERS. LOST OR DISTURBED PROPERTY CORNERS SHALL BE REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR.
- 18. THE GEOTECHNICAL ENGINEER SHALL SUPPLY THE ENGINEER AND OWNER WITH A PHOTOCOPY OF ALL COMPACTION TESTS AND OTHER REQUIRED MATERIALS TESTS UNDER THIS CONTRACT. THE GEOTECHNICAL ENGINEER SHALL CERTIFY, IN WRITING, TO THE ENGINEER AND OWNER, THAT ALL TESTING REQUIREMENTS HAVE BEEN SATISFIED.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL REQUIRED TESTING WITH THE GEOTECHNICAL ENGINEER. TESTING IS REQUIRED AS DICTATED BY THE CONTRACT DOCUMENTS, CONSTRUCTION PLANS AND SPECIFICATIONS. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER SHALL SUBMIT CERTIFICATIONS TO THE ENGINEER AND OWNER THAT STATE THAT ALL REQUIREMENTS HAVE BEEN MET.
- 20. THE CONTRACTOR SHALL REVIEW ALL PROJECT GEOTECHNICAL REPORTS PRIOR TO BIDDING AND THE START OF CONSTRUCTION.
- 21. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE CONSTRUCTION
- 22. THE CONSTRUCTION DRAWINGS DO NOT INCLUDE SPECIFICATION FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION SITE SAFETY.

CLEARING AND EROSION CONTROL NOTES:

- 1. ALL TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL REGULATIONS PRIOR TO THE START OF ANY CONSTRUCTION
- 2. THE CONTRACTOR SHALL PREPARE THE SITE AS DIRECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO STARTING ACTUAL CONSTRUCTION. COPIES OF THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND REPORT ARE AVAILABLE THROUGH THE OWNER OR THE GEOTECHNICAL ENGINEER. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS SHALL BE DIRECTED TO THE GEOTECHNICAL
- 3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED OPEN AREAS SHALL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING
- 4. THE TOP SOIL REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER AND SHALL BE USED FOR LANDSCAPING PURPOSES UNLESS OTHERWISE DIRECTED BY THE OWNER. 5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE
- 6. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR REMOVAL OF EXISTING STRUCTURES.
- 7. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVAL OR DEMOLITION OF
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCY EXIST. THE CONTRACTOR SHALL CONTACT THE OWNER FOR CLARIFICATION PRIOR TO DEMOLITION.
- 9. PRIOR TO THE COMPLETION OF CONSTRUCTION, THE RETENTION/DETENTION AREAS SHALL BE RESHAPED, CLEARED OF SILT, MUD AND DEBRIS, AND GRASSED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.

1. Precast manhole drop may be approved by ·See Index No. 301 City Engineer. Shop drawing submittal required. 2. Drop required when 2' or over. 3. Manholes shall have an exterior coating of at least 15 mils dry thickness PROCO Steel Adjustment Ring (or clay brick EP214-351 Sewper Coating or approved equal Interior shall be AGRU SUREGRIP masonry w/ 1/2" HDPE or PP-R Liner with a minimum cement plastic) thickness of 2 mm. Approved barrel joint seals are "O-Rings" and "Ram-Necks". Two continuous rings at all

Concentric cone (Flat cover on shallow manholes 0' to 4' - Steel reinforcement 5" min. wall thickness type II 4' Min. acid resistant cement 4000 p.s.i. -Grout fill opening 2"/ft min. with non-shrink mortar Poured Concrete Saddle 2′ joint in pipe entry (Typical) Grout flow channel -

PRECAST SANITARY MANHULE DETAIL

P.V.C. pipe requires manhole adapter coupling by Flo Control, Inc., or approved water stop coupling.

SANITARY SEWER NOTES: (PER FDEP & RECOMMENDED STANDARDS OF WASTEWATER FACILITIES)

- 1. ALL SANITARY SEWER MAINS AND LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- 2. ALL SANITARY SEWER WORK SHALL CONFORM TO FEDERAL, STATE & LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- 3. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL
- VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. 1. PVC PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATION DESIGNATION D-3034, SDR 26. THE JOINTS SHALL CONFORM TO ASTM D-3212.
- INSTALLATION OF SDR 26 PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ASTM SPECIFICATION SECTION D2321, ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR.
- 5. ALL PVC FORCE MAINS SHALL BE PRESSURE CLASS 200, SDR 21, COLOR GREEN, WITH A GREEN MAGNETIC TAPE A MINIMUM OF 2" WIDE PLACED 1 FOOT BELOW THE PROPOSED GRADE. THE PRINTING ON THE MAGNETIC TAPE SHALL READ "FORCE MAIN"
- 6. ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.51-91 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS IN ACCORDANCE WITH ANSI A 21.4 (AWWA C104).
- 7. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT REQUIRE DIP ARE TO BE POLYLINED OR EPOXY LINED.
- 8. ALL SANITARY SEWER RIMS AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
- 9. THE CONTRACTOR SHALL PROVIDE CERTIFIED UTILITY RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, THE RECORD DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL SANITARY SEWER MAINS, STRUCTURES AND SERVICES. THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER.

SANITARY SEWER TESTING AND INSPECTION REQUIREMENTS

- . ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE ENGINEER, CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- . THE GRAVITY SANITARY SEWER AND ALL SERVICE LATERALS SHALL BE SUBJECT TO AN INFILTRATION/EXFILTRATION TEST IN ACCORDANCE WITH LOCAL REGULATIONS. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SHALL BE SUBMITTED TO THE LOCAL AUTHORITIES FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 3. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH LOCAL REGULATIONS. TESTS SHALL BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE LOCAL AUTHORITIES FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

PRIOR TO ACCEPTANCE OF THE COMPLETED PVC SEWER LINE A MANDREL OF NOT LESS THAN 95 PERCENT OF THE INTERNAL DIAMETER OF THE PLASTIC PIPE SHALL BE PULLED FREELY THROUGH THE PIPE, BY HAND, THROUGH EACH REACH OF SEWER. AT LEAST EIGHT (8) MONTHS AFTER INSTALLATION AND FINAL BACKFILL, BUT NO LATER THAN 30 DAYS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, ALL PLASTIC PIPELINES SHALL BE MEASURED FOR VERTICAL RING DEFLECTION.

A VERTICAL RING DEFLECTION TEST SHALL BE REQUIRED PRIOR TO EXPIRATION OF THE CONTRACTOR'S MAINTENANCE OR PERFORMANCE BOND, APPROXIMATELY 10 MONTHS AFTER FINAL ACCEPTANCE. THIS TEST SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE PERCENT (5%) OF THE VERTICAL INTERNAL PIPE DIAMETER, ALL PIPE EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RELAID OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER,

a. ORDER OF OPERATIONS: FILL THE SYSTEM WITH WATER AT A VELOCITY OF APPROXIMATELY 1 FOOT PER SECOND WHILE NECESSARY MEASURES ARE TAKEN TO ELIMINATE ALL AIR, DO NOT LEAVE FILL LINE CONNECTED TO SEWER LINE UNLESS AN RPZ BACKFLOW PREVENTER IS

PLACED BETWEEN THE POTABLE WATER SUPPLY AND THE LINE BEING FILLED. b. PRESSURE TESTS & LEAKAGE:THE CONTRACTOR SHALL TEST COMPLETED SECTIONS OF LINE, INCLUDING FITTINGS, WITH WATER. THIS TESTING, HOWEVER, DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO REPAIR OR REPLACE ANY CRACKED OR DEFECTIVE PIPE. ALL WORK NECESSARY TO SECURE A TIGHT LINE SHALL BE PERFORMED BY THE CONTRACTOR. TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE

INSPECTOR AND THE CONTRACTOR. COST FOR TESTING SHALL BE INCIDENTAL TO LINE CONSTRUCTION. . PRESSURE TEST: THE NEWLY LAID PIPING OR ANY VALVED SECTION OF PIPING SHALL, UNLESS OTHERWISE SPECIFIED, BE SUBJECTED FOR TWO OURS TO A LEAKAGE TEST. RAISE THE PRESSURE BY PUMP TO 150 PSI, 150% OF DESIGN WORKING PRESSURE, OR TEST PRESSURE AS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER, MEASURE THE PRESSURE AT THE LOW POINT ON THE SYSTEM COMPENSATING FOR GAUGE ELEVATION. MAINTAIN THIS PRESSURE (+ OR - 5PSI) FOR 2 HOURS. IF PRESSURE CANNOT BE MAINTAINED USING REASONABLE PUMPING RATE. DETERMINE CAUSE, REPAIR, AND REPEAT THE TEST UNTIL SUCCESSFUL, THE ALLOWABLE LEAKAGE SHALL BE NO GREATER THAN ALLOWANCES SHOWN IN

TABLE 6A - HYDROSTATIC TESTING, SECTION 5.2. OF AWWA C 600-93, AWWA STANDARD FOR INSTALLATION OF DUCTILE IRON WATER MAINS ANI THEIR APPURTENANCES. CONTACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THE TESTING. ALL VISIBLE LEAKS, BROKEN OR CRACKED PIPE, VALVES, ETC. SHALL BE REPAIRED.

THE FOLLOWING WORK MUST BE PERFORMED PRIOR TO TESTING:

- ALL PIPE HAS BEEN LAID AND THE TRENCH BACKFILLED. VALVES SHALL BE PROPERLY LOCATED, OPERABLE AND AT CORRECT ELEVATION.
- ALL REACTION ANCHORS HAVE HAD SUFFICIENT SET OF 3 DAYS, HIGH EARLY STRENGTH CONCRETE, 4500 PSI OR GREATER, MAY BE USED TO REDUCE NUMBER OF DAYS.
- LINES SHALL BE PROPERLY VENTED WHERE ENTRAPPED AIR IS A CONSIDERATION. ALL CONSTRUCTION ACTIVITIES ON THE PROJECT. THAT REQUIRES TRENCHING OR EXCAVATION WITHIN THE LIMITS OF THE LINE LOCATIONSHALL BE COMPLETED PRIOR TO PRESSURE TESTING OF LINE

	(Allowable Leakage per 1000 ft. of Pipeline * in gph)															
(This table is excerpted from AWWA C-600, Section 5.2 Table 6A)																
AVG. TEST		,				N	OMIN	IAL P	IPE D	LAME	TER-	IN.				
PRESSURE PSI	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	4
450	0.32	0.48	0.64	0.95	1.27	1.59	1.91	2.23	2.55	2.87	3.18	3.82	4.78	5.73	6.69	7.0
400	0.30	0.45	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	3.00	3.60	4.50	5.41	6.31	7.2
350	0.28	0.42	0.56	0.84	1.12	1.40	1.69	1.97	2.25	2.53	2.81	3.37	4.21	5.06	5.90	6.
300	0.26	0.39	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.34	2.60	3.12	3.90	4.68	5.46	6.2
275	0.25	0.37	0.50	0.75	1.00	1.24	1.49	1.74	1.99	2.24	2.49	2.99	3.73	4.48	5.23	5.5
250	0.24	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56	4.27	4.99	5.
225	0.23	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38	4.05	4.73	5.4
200	0.21	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.0
175	0.20	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.
150	0.19	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.4
125	0.17	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.0
100	0.15	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.6

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum		

(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.

(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

WATER SYSTEM NOTES:

1. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.

- 2. ALL WATER SYSTEM WORK SHALL CONFORM TO LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- 3. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER SHALL BE RESOLVED BY ADJUSTING THE WATER LINES AS REQUIRED. 4. ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS IN ACCORDANCE WITH ANSI A 21.4 (AWWA C104).
- 5. ALL FITTINGS 3" OR LARGER SHALL BE MECHANICAL JOINT, DUCTILE IRON PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.10 AND A 21.11 (AWWA C110 AND AWWA C111 RESPECTIVELY). FITTINGS SHALL BE CEMENT MORTAR LINED AND BITUMINOUS COATED IN ACCORDANCE WITH AWWA C104 AND AWWA C151 RESPECTIVELY
- 6. THE CONTRACTOR SHALL INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE
- 7. ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241.
- 8. WATER MAIN PIPING LARGER THAN 2" AND SMALLER THAN 4" SHALL BE PRESSURE CLASS 200 AND MEET THE REQUIREMENTS OF SDR 21 IN ACCORDANCE WITH ASTM D2241 UNLESS SPECIFIED OTHERWISE.
- 9. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED SLEEVE TYPE JOINTS.
- 10.ALL GATE VALVES 2" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF AWWA C509 11.ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AWWA C502 AND SHALL BE APPROVED BY THE LOCAL UTILITY AND FIRE
- 12.MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL LOCAL REGULATIONS, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS
- 13.THE CONTRACTOR SHALL PROVIDE CERTIFIED UTILITY RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW THE LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL WATER MAINS, SERVICES, MANHOLES, GRAVITY SEWER MAINS, SERVICE LATERALS, PUMP STATIONS AND FORCE MAINS, THE CONTRACTOR SHALL PROVIDE TEN COPIES OF

THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE

THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER.

FDEP NOTES

- B. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT WILL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.
- C. ALL PUBLIC WATER SYSTEM COMPONENTS. EXCLUDING FIRE HYDRANTS. THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61.
- D. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL CONTAIN NO MORE THAN 8,0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD.
- E. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL: AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE. THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE. AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE. THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)
- O. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES INSTALLED UNDER THIS PROJECT WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING ELBOW.
- Q. NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED PROCEDURES.
- R. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPF INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER
- S. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS INSTALLED UNDER THIS PROJECT WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT.
- . NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE CONSTRUCTED OF ASBESTOS-CEMENT OR POLYVINYL CHLORIDE PIPE WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, RESPECTIVELY, AND ALL OTHER NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600
- U. NEW OR ALTERED WATER MAINS, INCLUDING FIRE HYDRANT LEADS AND INCLUDING SERVICE LINES THAT WILL BE LINDER THE AND BACTERIOLOGICALLY EVALUATED IN ACCORDANCE WITH RULE 62-555.340, F.A.C.
- AA.NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS UNDER SURFACE WATER WILL HAVE A

WATER SYSTEM TESTING AND INSPECTION REQUIREMENTS

- . ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE ENGINEER AND LOCAL AUTHORITIES. PRESSURE TESTS SHALL BE IN ACCORDANCE WITH LOCAL WATER DEPARTMENT & EDEP SPECIFICATIONS. CONTRACTOR SHALL NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS. SEE ITEM "T" ABOVE.
- 2. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED CHLORINATION/DISINFECTION AND BACTERIOLOGICAL SAMPLING IN ACCORDANCE TO ITEM "U" ABOVE. CONTRACTOR SHALL OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS (WHICH SHALL ALSO INDICATE THE CHLORINE RESIDUAL) SHALL BE SUBMITTED TO ENGINEER.

WATER CLEARANCE REQUIREMENTS

- W. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED. VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL
- X. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
- . AT THE UTILITY CROSSINGS DESCRIBED IN PART II.C.1.W ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

LEGAL DESCRIPTION

DESCRIPTION PREPARED BY SUN COAST SURVEYING, INC.

LOTS 1, 2, 7, 8 AND 9, EARL AND TATE'S SUBDIVISION, ACCORDING TO THE RECORDED PLAT THEREOF IN PLAT BOOK H-1, PAGE 20 IN THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, WHICH PINELLAS COUNTY WAS FORMERLY A PART.

SYNERGY Civil Engineering, Inc. 3000Gulf to Bay Boulevard, Suite 201 Clearwater, FL 33759 Tel. (727)796-1926 Cell (727) 470-1344 www.synergycivileng.com

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ARCHITECT

Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard

Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

ANDSCAPE ARCHITECT

320 Tucker Street Safety Harbor, Florida 34695 Ph: (727) 797-3580

Paradise by Design, inc.

email: james@paradisebydesigninc.com



△ CITY OF CLEARWATER (CDB)	MJP	MJP 10-09-15
⚠ CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30-1
△ CITY OF CLEARWATER (BUIDING)	MJP	MJP 09-01-10
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1) CITY OF CLEARWATER	MJP	MJP 0	9-01-:
2) CITY OF CLEARWATER (CDB)	MJP	MJP 1	0-09-2
3) CITY OF CLEARWATER (BUIDING)	MJP	MJP 0	6-30-:
4) CITY OF CLEARWATER (BUIDING)	MJP	MJP 0	9-01-:

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MICHAEL J. PALMER, P.E. LIC. NO. 63743

BY A REGISTERED ENGINEER

SYNERGY CIVIL ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION No.2769 P**r**oject / Client: The Skyview Condominiums

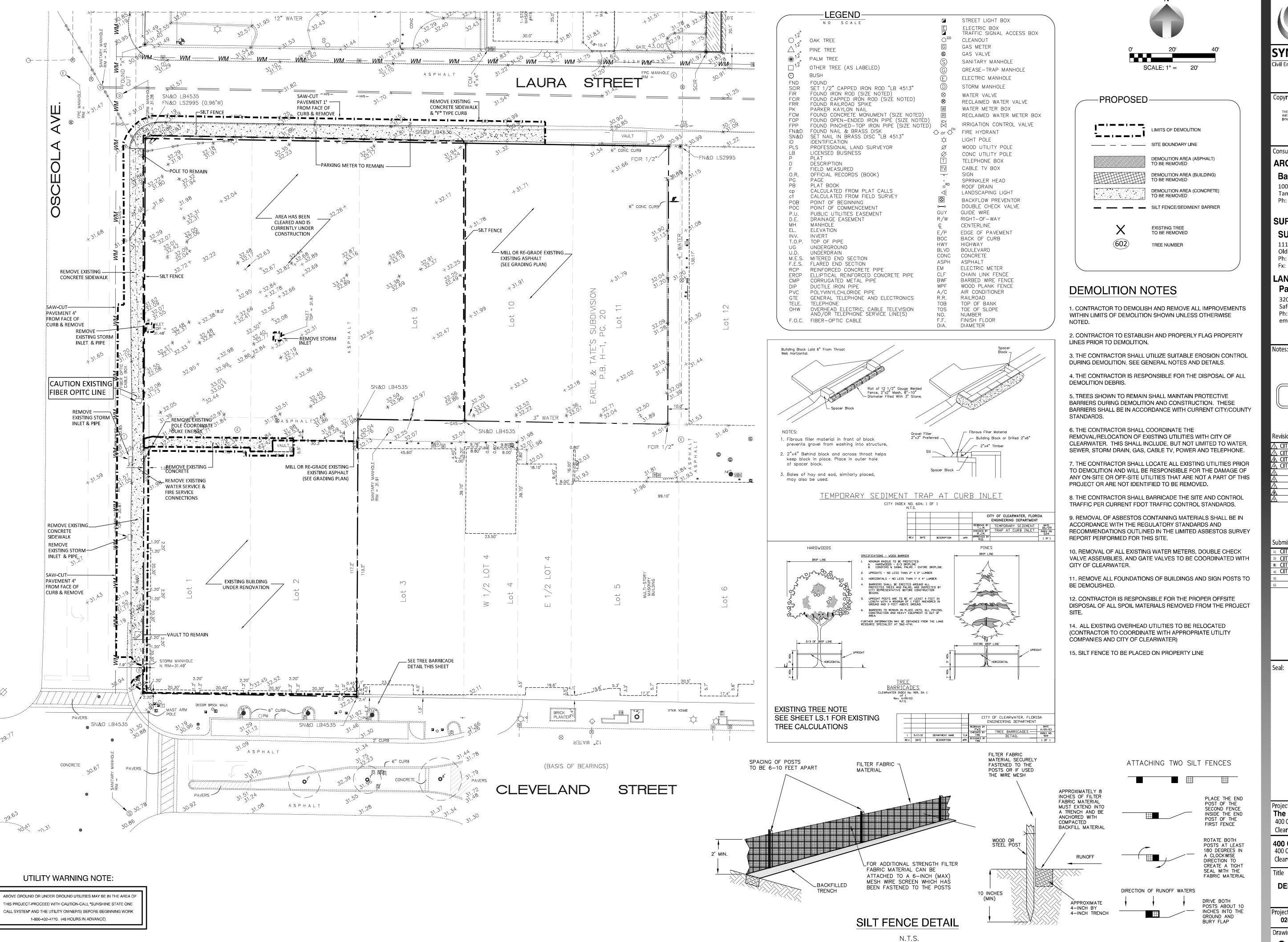
Clearwater, Florida 33755 400 CLEVELAND, LLC 400 Cleveland Street

400 Cleveland Street

Clearwater, Florida 33755

GENERAL NOTES & SPECIFICATIONS

P r oject No. 02-012-98	Scale: AS NOTED	Date: 08-30-2015
Drawing No.	Sheet	Revision No.
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SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

ANDSCAPE ARCHITECT Paradise by Design, inc.

320 Tucker Street Safety Harbor, Florida 34695 Ph: (727) 797**-**3580 email: james@paradisebydesigninc.com

<u>CITY OF CLEARWATER (CDB)</u>

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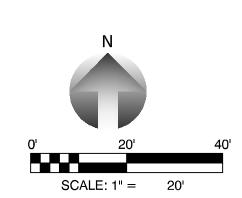
CERTIFICATE OF AUTHORIZATION No.27692

Project / Client: The Skyview Condominiums 400 Cleveland Street Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

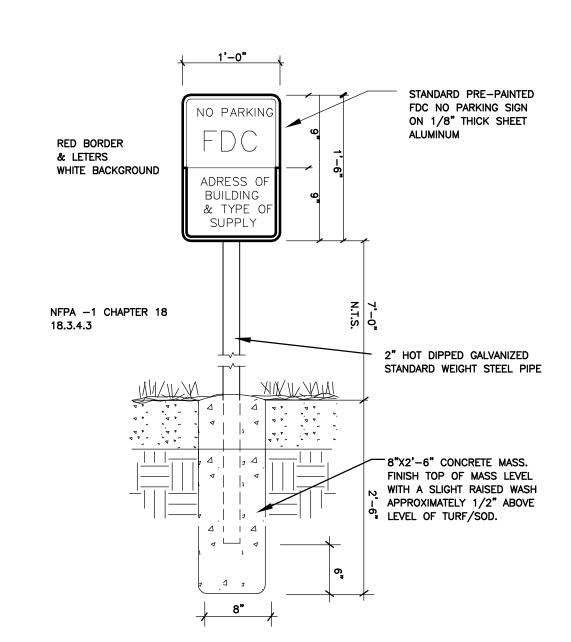
DEMOLITION PLAN

AS NOTED 02-012-98 08-30-2015 Drawing No. Revision No.



40 RESIDENTIAL DWELLING UNITS PROPOSED

			SITE DATA		
		EXISTING CONDITIONS	PROPOSED	REQUIRED / ALLOWABLE	NOTES
ZONING		DOWNTOWN	DOWNTOWN		
FUTURE LAN	ND USE	CBD	CBD		CENTRAL BUSINES DISTRICT (CBD)
USAGE		OFFICE SPACE	MIXED USED (RETAIL/CONDO)	ALLOWABLE USE	LEVEL 2
LOT AREA		32,500 SQ. FT	32,500 SQ. FT	MIN. ALLOWABLE 4000 SQ.FT.	
BUILDING C	OVERAGE	13,661 SQ. FT	10,801 SQ. FT		
OTHER IMPE	ERVIOUS AREA	SQ. FT	1,533 SQ. FT		
PARKING LOT		RKING LOT 15,774 SQ. FT			
TOTAL IMPERVIOUS AREA		29,435 SQ. FT	30,697 SQ. FT		
	FRONT(SOUTH)	0.50 FT	0.50 FT	0 FT	
SETBACKS	FRONT(WEST)	1.90 FT	1.90 FT	0 FT	
SEIDACKS	SIDE(EAST)	0.0 FT	0.0 FT	0 FT	
	FRONT(NORTH)	140 FT	140 FT	0 FT	
BUILDING	HEIGHT	125'-4"	144'-0"	No Restriction	
FLOOR AR	EA RATIO (FAR)	SEE NARRATIVE	SEE NARRATIVE	4.0	
INTERIOR	GREEN	3,065 SQ. FT	1,803 SQ. FT		
STREETSCAPE	CLEVELAND ST.	N/A	CLEVELAND STREET	CITY PROJECT	DESIGN BY C.O. CLEARWA
	ST.	N/A	NONE	N/A	
P/	ARKING	26 STANDARD SPACES	45 STANDARD SPACES	40 STANDARD SPACES	
HANDIC	AP PARKING		0 SPACES		



FDC SIGN DETAIL



STOP SIGN DETAIL
N.T.S.

STRIPING NOTES

- TYPICAL PARKING SPACE SHALL BE STRIPED WITH A 4" WHITE STRIPE.
- SEE DETAILS FOR HANDICAP PARKING.
- DRIVEWAY FLARES AND RETURNS PER CITY OF CLEARWATER DETAIL INDEX NO. 107 (FOR MORE INFO REFER TO FDOT INDEX 515 SPECIFICATIONS).
- PAVEMENT MARKINGS PER FDOT INDEX 17346



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ARCHITECT

Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

LANDSCAPE ARCHITECT Paradise by Design, inc.

320 Tucker Street

Safety Harbor, Florida 34695 Ph: (727) 797-3580 email: james@paradisebydesigninc.com

Notes:

Revisions: By Appd. Date

	MJP	MJP 09-01-3
△ CITY OF CLEARWATER (CDB)	MJP	MJP 10-09-2
⚠ CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30-3
	MJP	MJP 09-01-3
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1) CITY OF CLEARWATER	MJP	MJP 09-01	-1
2) CITY OF CLEARWATER (CDB)	MJP	MJP 10-09	-1!
3) CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30	
4) CITY OF CLEARWATER (BUIDING)	MJP	MJP 09-01	-1
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C E N

NO. 63743

STATE OF

MICHAEL J. PALMER, P.E. LIC. NO. 63743

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SYNERGY CIVIL ENGINEERING, INC.

CERTIFICATE OF AUTHORIZATION No.2769

Project / Client:
The Skyview Condominiums
400 Cleveland Street
Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

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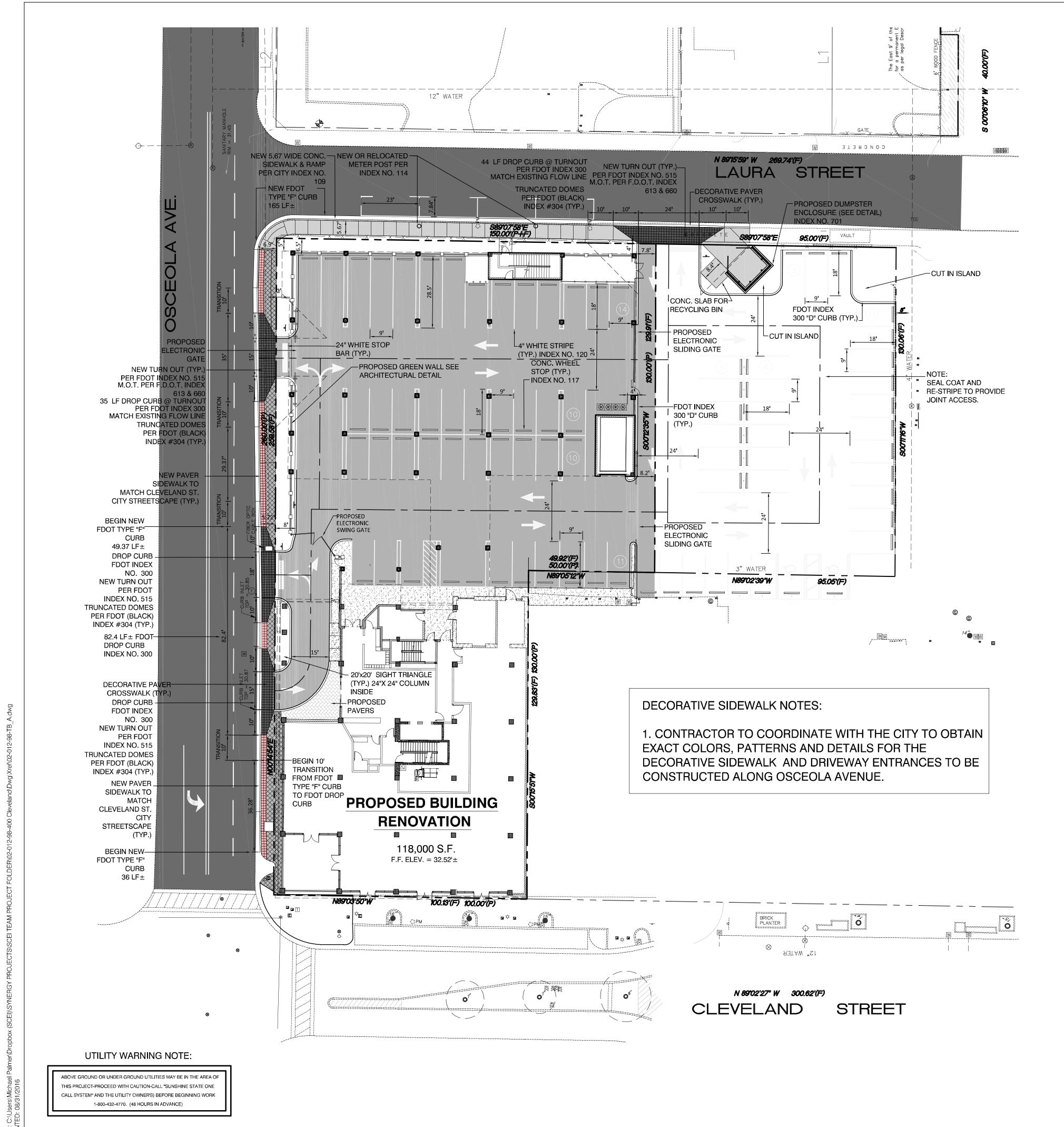
HORITONTAL CONTROL & UTILITY PLAN

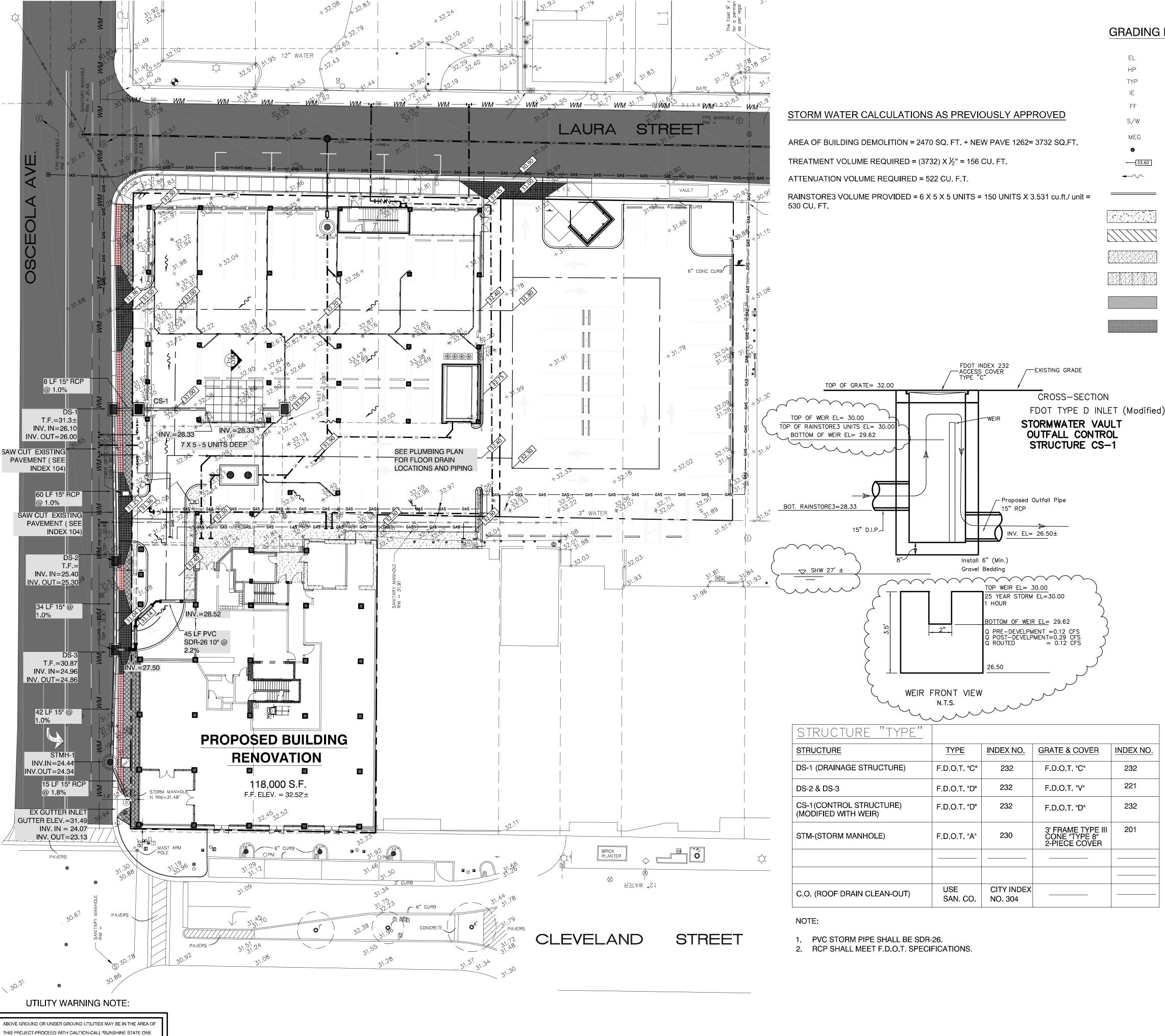
 Project No.
 Scale:
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 02-012-98
 AS NOTED
 Date:

 Drawing No.
 Sheet
 Revision No.

 C-04
 4 of 12
 3





CALL SYSTEM* AND THE UTILITY OWNER'S) BEFORE BEGINNING WORK

1-800-432-4770. (48 HOURS IN ADVANCE)

GRADING LEGEND

ELEVATION HIGH POINT

TYPICAL

INVERT ELEVATION FINISH FLOOR ELEVATION

SIDEWALK

CLEANOUT PROPOSED SPOT ELEVATION

> SURFACE STORMWATER FLOW PROPOSED CURB

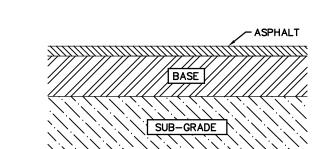
MEET EXISTING GRADE

EXISTING CONCRETE PAVEMENT

HANDICAP PARKING AREAS PROPOSED CONCRETE PAVEMENT

PROPOSED CONCRETE PAVEMENT SIDEWALK

PROPOSED ASPHALT PAVEMENT & SEAL COAT PAVEMENT **BRICK PAVERS**



TYPE S-1 ASPHALTIC CONCRETE SURFACE COURSE

CRUSHED LIMEROCK W/ LBR OF 100% COMPACTED TO 98% MODIFIED PROCTOR AASHTO T-180 SUB-GRADE LBR OF 40% SUB-GRADE 12"

COMPACTED TO 95% AASHTO T-180

TYPICAL PAVEMENT SECTION

NEW ASPHALT TACK COAT EXISTING PAVEMENT NORMAL 1.5" TO 6"± TYPE S-1 ASPHALTIC CONCRETE

SURFACE COURSE

TYPICAL OVERLAY PAVEMENT SECTION

PAVING, GRADING & DRAINAGE NOTES:

- 1. SEE GENERAL NOTES SHEET AND DEMOLITION FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES. 2. SEE SITE PLAN/HORIZONTAL CONTROL SHEET FOR SITE DATA.
- 3. SEE BOUNDARY & TOPOGRAPHIC SURVEY FOR TEMPORARY BENCHMARK (TBM) LOCATIONS.
- 4. THE CONTRACTOR SHALL MEET ALL APPLICABLE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE ACCESSIBILITY REQUIREMENTS MANUAL PREPARED BY THE FLORIDA BOARD OF BUILDING CODES AND STANDARDS.

THERE SHALL BE A 2% MAX. CROSS SLOPE ON ALL SIDEWALKS

THE SURVEY WAS PREPARED IN N.A.V.D. 1988 DATUM



SCALE: 1" = 20'

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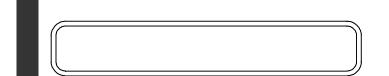
SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

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√ CITY OF CLEARWATER (CDB) CITY OF CLEARWATER (BUIDING CITY OF CLEARWATER (BUIDING

1) CITY OF CLEARWATER CITY OF CLEARWATER (CDB) CITY OF CLEARWATER (BUIDING) (BUIDING)

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> CERTIFICATE OF AUTHORIZATION No.27692

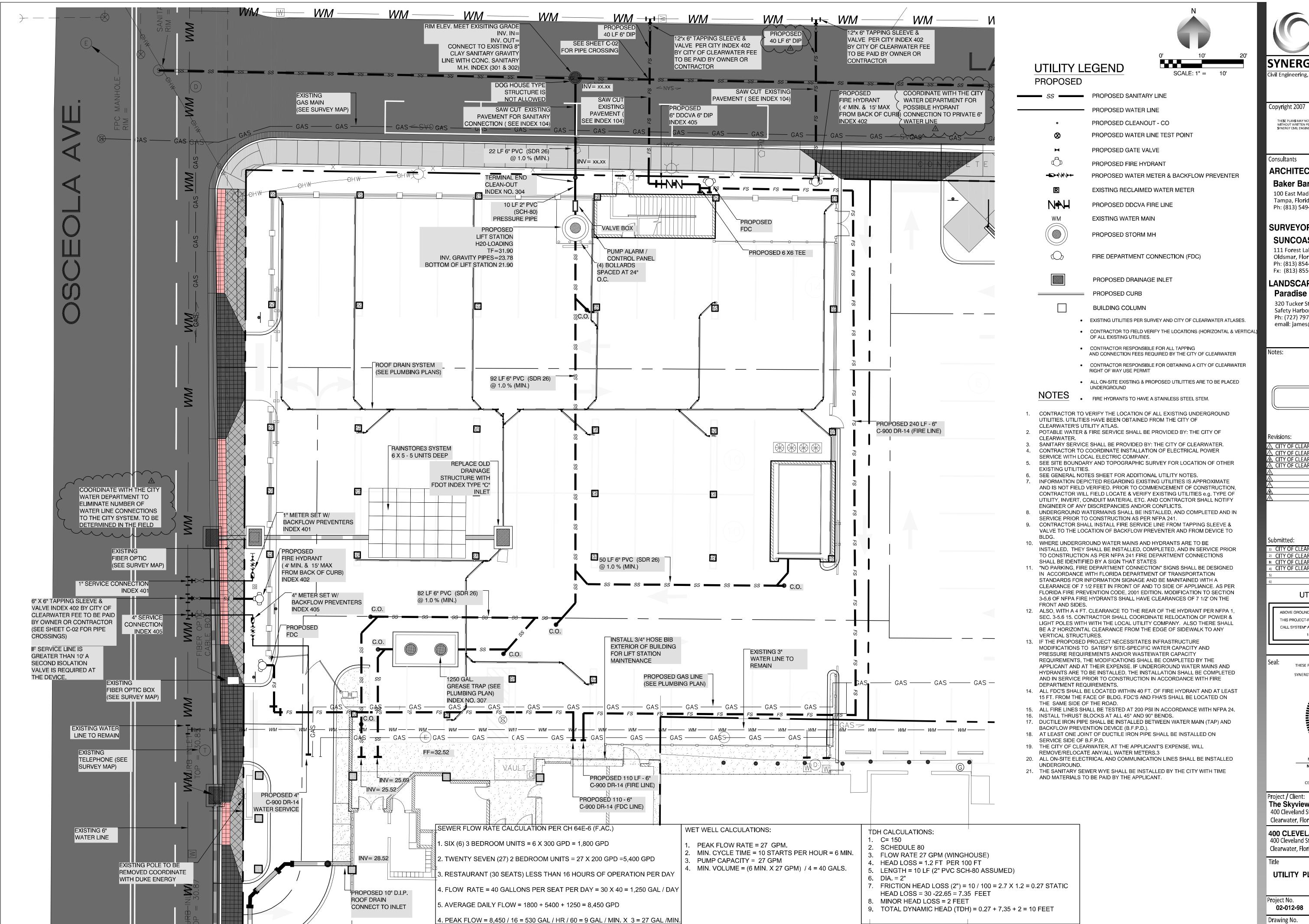
Project / Client: The Skyview Condominiums 400 Cleveland Street

Clearwater, Florida 33755 400 CLEVELAND, LLC 400 Cleveland Street

Clearwater, Florida 33755

PAVING & GRADING PLAN

AS NOTED 08-30-2015 02-012-98 Revision No. Drawing No. **C-05 5** of **12**



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ARCHITECT

Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342

Fx: (813) 855-6890 ANDSCAPE ARCHITECT

Paradise by Design, inc.

320 Tucker Street Safety Harbor, Florida 34695 Ph: (727) 797-3580

email: james@paradisebydesigninc.com

Revisions:	By Appd. Date
⚠ CITY OF CLEARWATER ⚠ CITY OF CLEARWATER (CDB)	MJP MJP 09-01-15 MJP MJP 10-09-15
⚠ CITY OF CLEARWATER (BUIDING) ⚠ CITY OF CLEARWATER (BUIDING)	MJP 06-30-16 MJP 09-01-16
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Submitted:	Ву	Appd. Date
1) CITY OF CLEARWATER	MJP	MJP 09-01-15
2) CITY OF CLEARWATER (CDB)	MJP	MJP 10-09-15
3) CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30-16
4) CITY OF CLEARWATER (BUIDING)	MJP	MJP 09-01-16

UTILITY WARNING NOTE:

ABOVE GROUND OR UNDER GROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT-PROCEED WITH CAUTION-CALL "SUNSHINE STATE ONE CALL SYSTEM" AND THE UTILITY OWNER'S) BEFORE BEGINNING WORK 1-800-432-4770. (48 HOURS IN ADVANCE)

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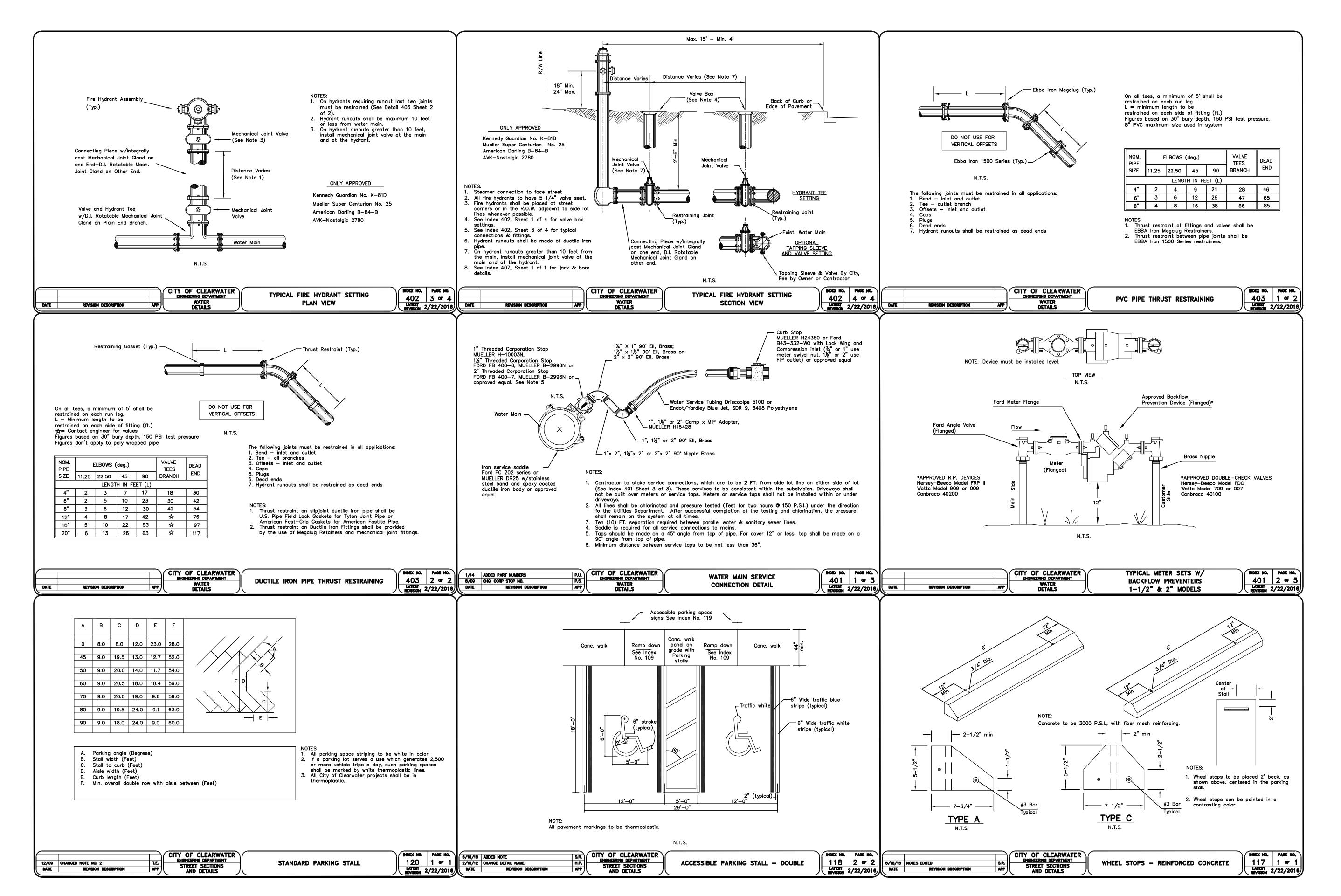
SYNERGY CIVIL ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION No.27692

The Skyview Condominiums 400 Cleveland Street Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

UTILITY PLAN

Project No. **AS NOTED** 08-30-2015



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Consultants

ARCHITECT

Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677

Ph: (813) 854-1342 Fx: (813) 855-6890

ANDSCAPE ARCHITECT

Paradise by Design, inc.

320 Tucker Street Safety Harbor, Florida 34695

Ph: (727) 797-3580 email: james@paradisebydesigninc.com

Revisions: By Appd. Date

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	MJP	MJP 09-01-15
△ CITY OF CLEARWATER (CDB)	MJP	MJP 10-09-15
⚠ CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30-16
△ CITY OF CLEARWATER (BUIDING)	MJP	MJP 09-01-16
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1) CITY OF CLEARWATER	MJP	MJP 09-01-15
2) CITY OF CLEARWATER (CDB)	MJP	MJP 10-09-15
3) CITY OF CLEARWATER (BUIDING)	MJP	MJP 06-30-16
4) CITY OF CLEARWATER (BUIDING)	MJP_	MJP 09-01-16
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CERTIFICATE OF AUTHORIZATION No.27692

Project / Client:
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400 Cleveland Street
Clearwater, Florida 33755

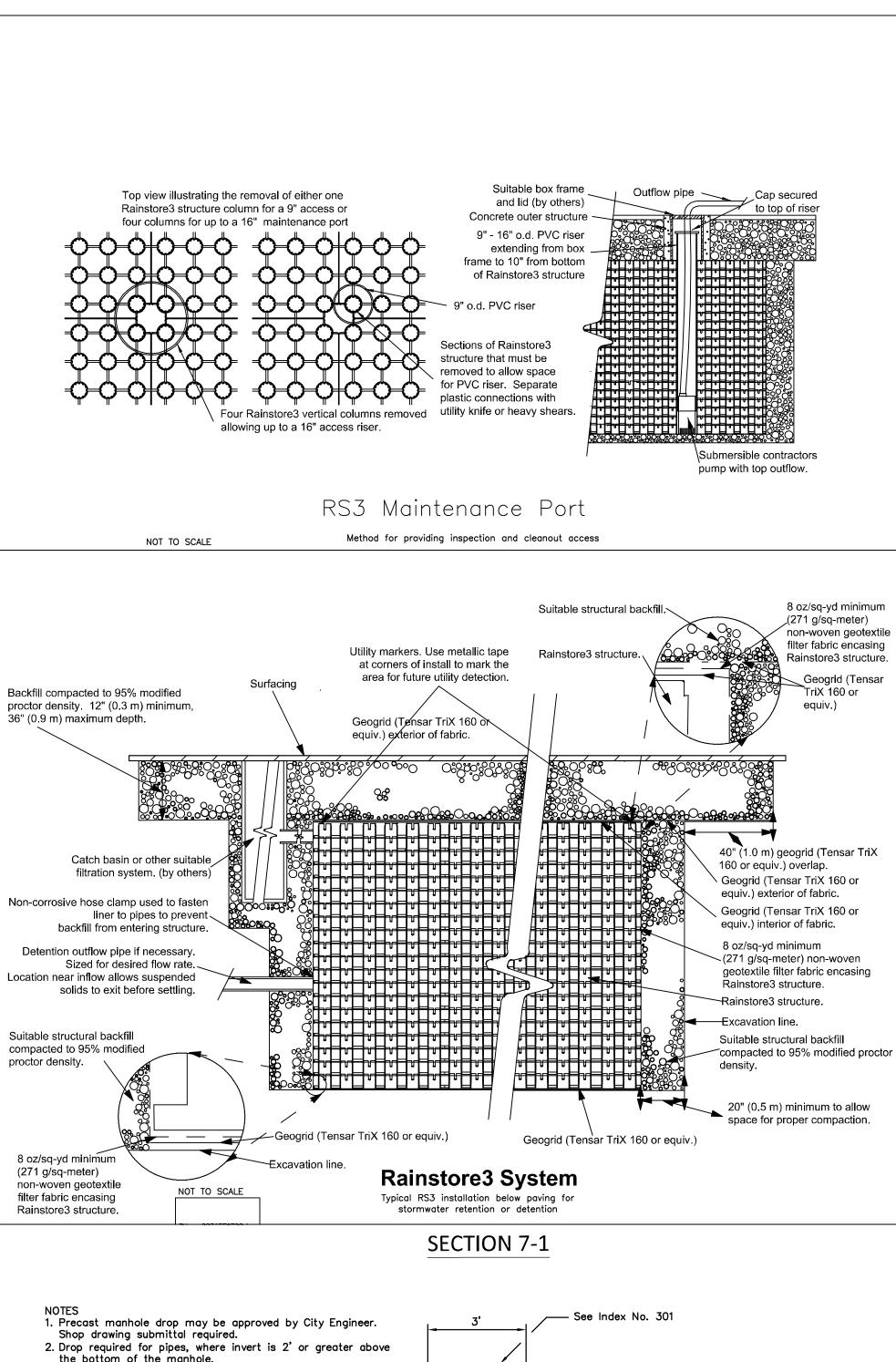
400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

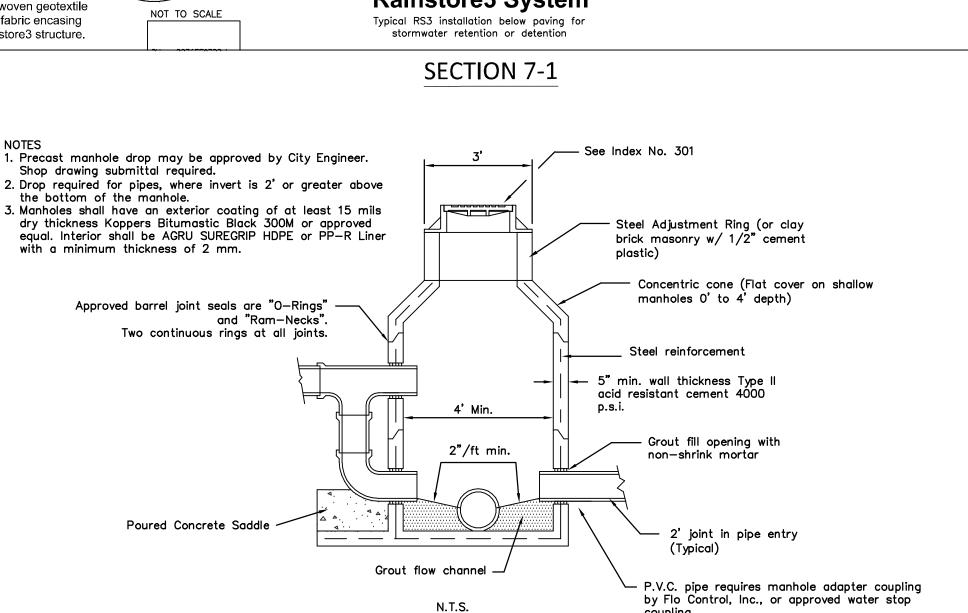
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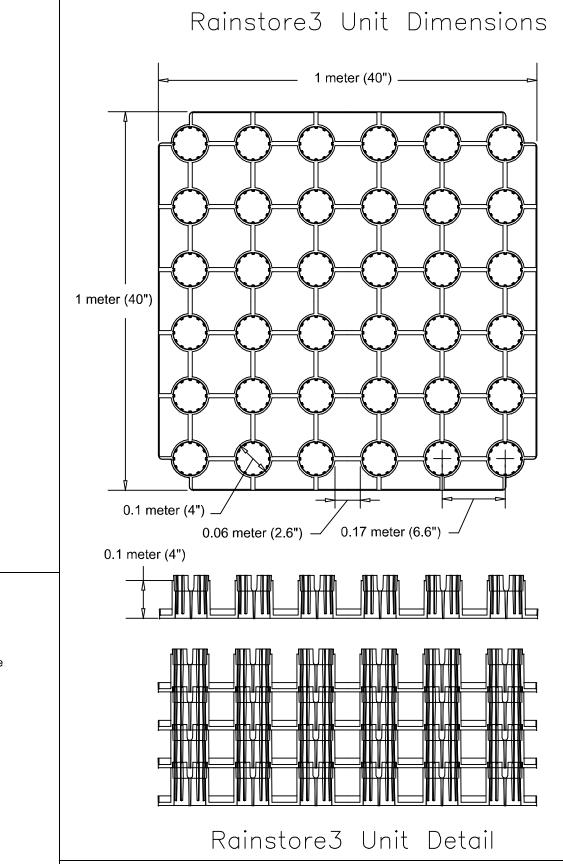
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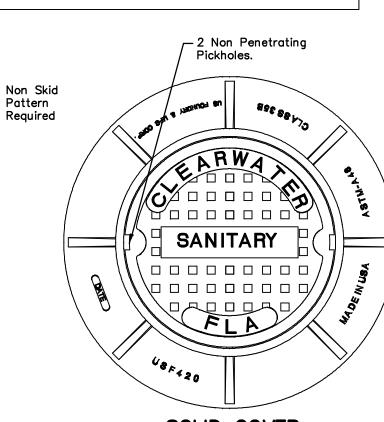
SITE DETAILS

Project No. 02-012-98	Scale: AS NOTED	Date: 08-30-2015		
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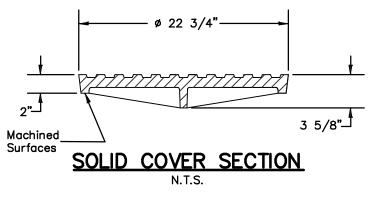
SOLID COVER

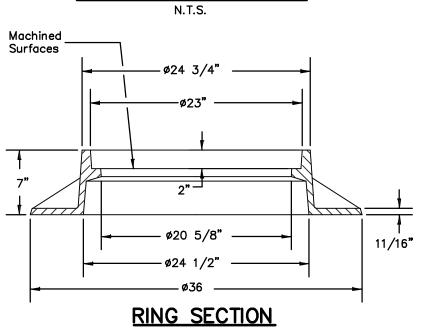
NOTES

Where roadway base is 8" or thicker, use 9" ring.
 Manufacturer's model USF 420 Ring & G Cover, or equal, if approved by City Engineer.

3. Heavy Traffic (Multi-lane) with cover located in travel lane will require ring and cover by EJ Group ERGO Assembly, Product Number 00104083L01

—See Index 301 Page 3 of 3.





SYNERGY Civil Engineering, Inc. 3000Gulf to Bay Boulevard, Suite 201 Clearwater, FL 33759 Tel. (727)796-1926 Cell (727) 470-1344 www.synergycivileng.com

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SURVEYOR

SUNCOAST LAND SURVEYING, INC.

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Ph: (813) 854-1342 Fx: (813) 855-6890

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ANDSCAPE ARCHITECT Paradise by Design, inc.

320 Tucke**r** St**r**eet Safety Harbor, Florida 34695

Safety Ha**r**bo**r,** Florida 3469 Ph: (727) 797-3580

email: james@paradisebydesigninc.com

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CITY OF CLEARWATER

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1) CITY OF CLEARWATER

2) CITY OF CLEARWATER (CDB)

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C E N

No. 63743

STATE OF

MICHAEL J. PALMER, P.E. LIC. NO. 63743

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SYNERGY CIVIL ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION No.27692

Project / Client: **The Skyview Condominiums**400 Cleveland Street
Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

Title

SITE DETAILS

P r oject No. 02-012-98	Scale: AS NOTED	Date: 08-30-201 5	
D r awing No.	Sheet	Revision No.	
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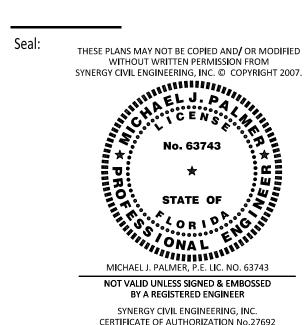
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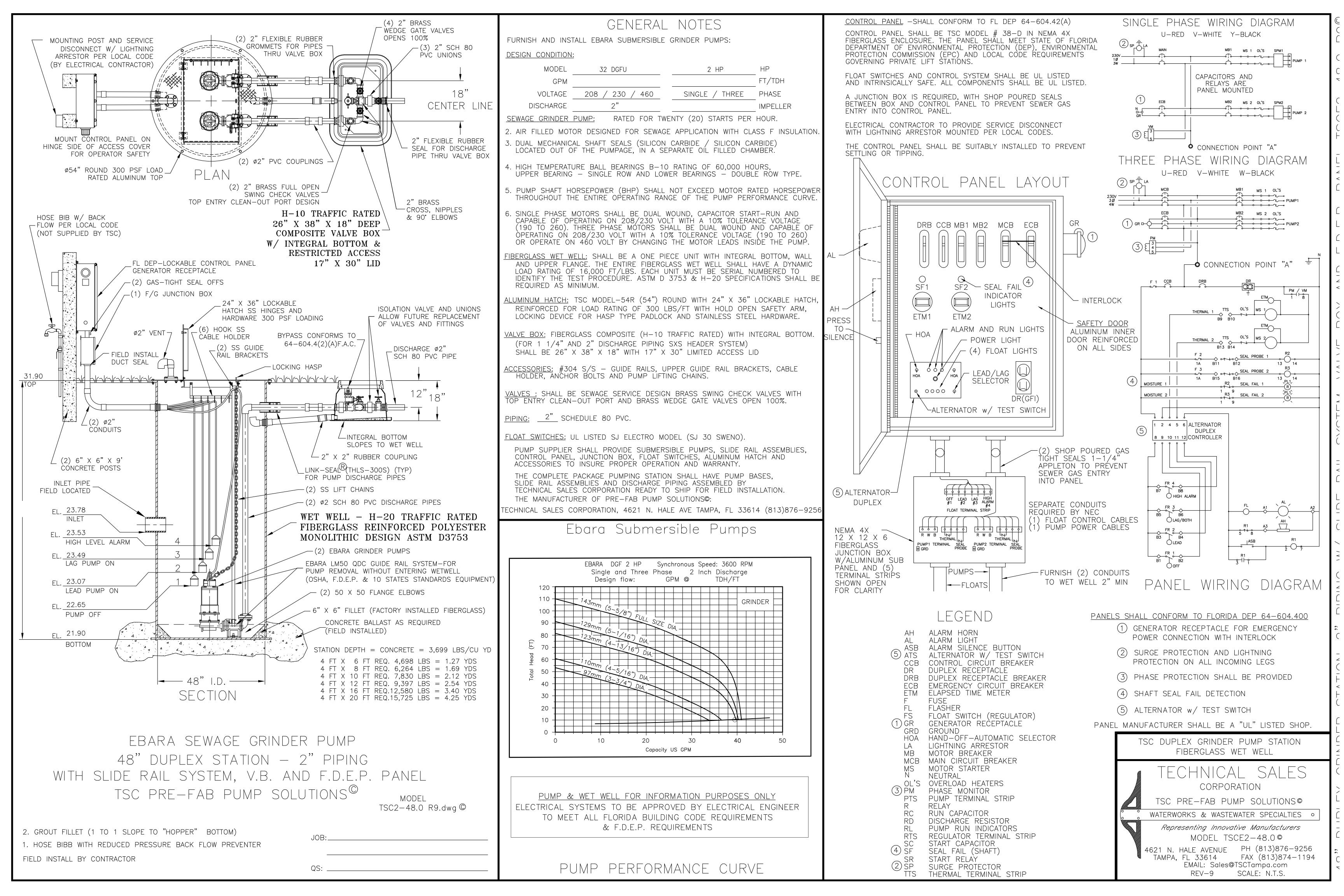
Project / Client: The Skyview Condominiums 400 Cleveland Street Clearwater, Florida 33755

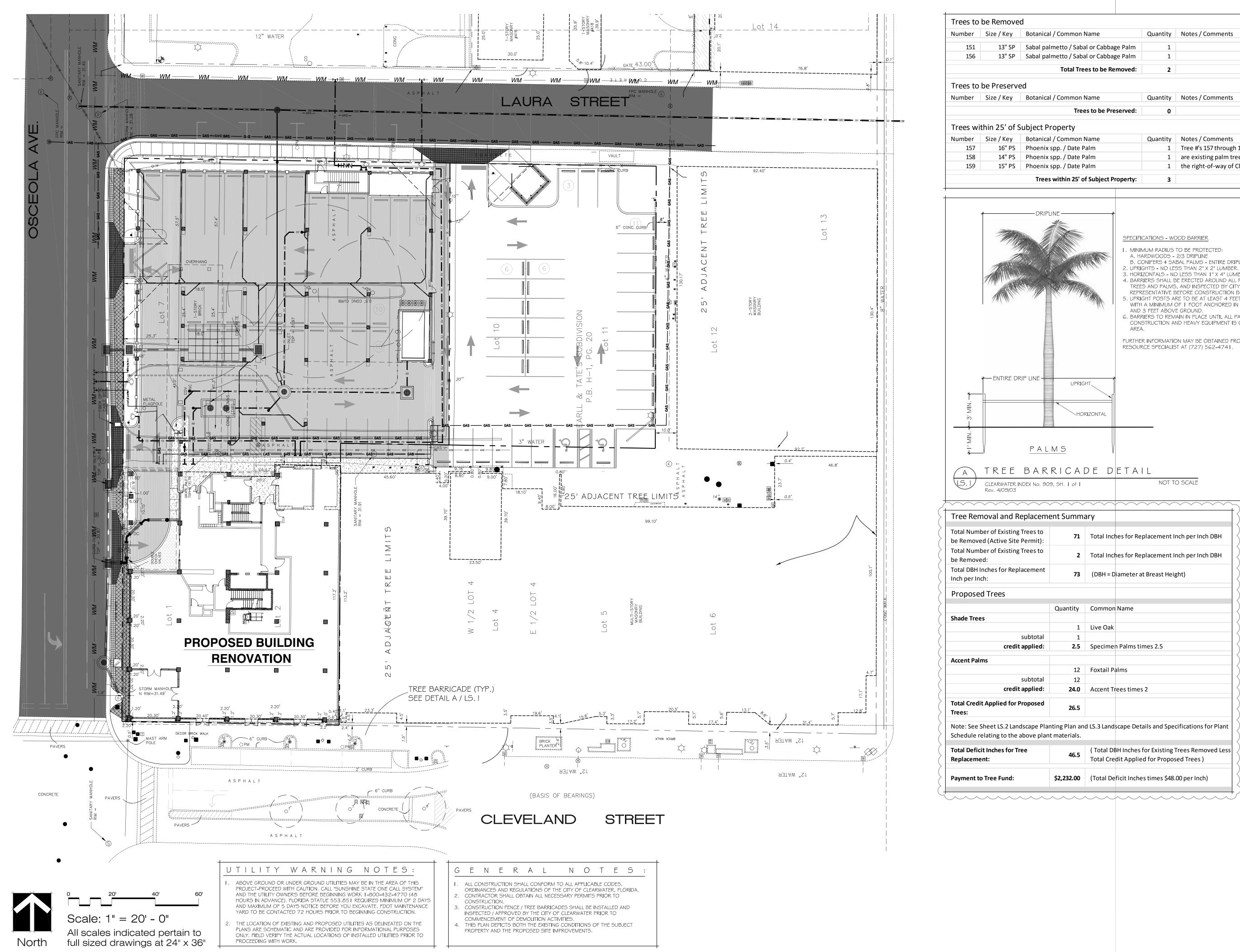
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Clearwater, Florida 33755

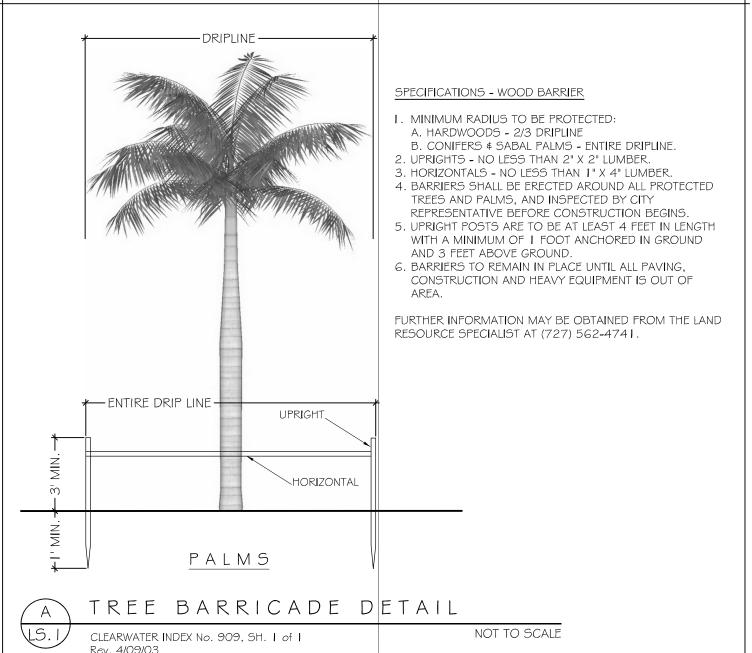
SITE DETAILS

Date: Project No. Scale: **AS NOTED** 08-30-2015 02-012-98 Drawing No. Revision No. C-09 **9** of **12**





Trees to be Removed								
Number	Size / Key	Botanical / Common Name	Quantity	Notes / Comments				
151	13" SP	Sabal palmetto / Sabal or Cabbage Palm	1					
156	13" SP	Sabal palmetto / Sabal or Cabbage Palm	1					
Total Trees to be Removed: 2								
Trees to be Preserved								
Number	Number Size / Key Botanical / Common Name Quantity Notes / Comments							
Trees to be Preserved: 0								
Trees wi	thin 25' of S	ubject Property						
Number	Size / Key	Botanical / Common Name	Quantity	Notes / Comments				
157	16" PS	Phoenix spp. / Date Palm	1	Tree #'s 157 through 159 inclusive				
158	14" PS	Phoenix spp. / Date Palm	1	are existing palm trees within				
159	15" PS	Phoenix spp. / Date Palm	1	the right-of-way of Cleveland St.				
	Trees within 25' of Subject Property: 3							



Total Number of Existing Trees to	71	Total Inches for Replacement Inch per Inch DBH				
be Removed (Active Site Permit):		<u>'</u>				
Total Number of Existing Trees to	2	Total Inches for Replacement Inch per Inch DBH				
be Removed:						
Total DBH Inches for Replacement	73	(DBH = Diameter at Breast Height)				
nch per Inch:						
Proposed Trees						
	Quantity	Common Name				
Shade Trees						
	1	Live Oak				
subtotal	1					
credit applied:	2.5	Specimen Palms times 2.5				
Accent Palms						
	12	Foxtail Palms				
subtotal	12					
credit applied:	24.0	Accent Trees times 2				
Total Credit Applied for Proposed						
Trees:	26.5					
Note: See Sheet LS.2 Landscape Pla	nting Plan an	nd LS.3 Landscape Details and Specifications for Plant				
Schedule relating to the above plan	_					
Tarad Ballianda a Cara		(Table 1991) - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 2				
Total Deficit Inches for Tree	46.5	(Total DBH Inches for Existing Trees Removed Les				
Replacement:		Total Credit Applied for Proposed Trees)				
	\$2,232.00	(Total Deficit Inches times \$48.00 per Inch)				

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Baker Barrios

100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

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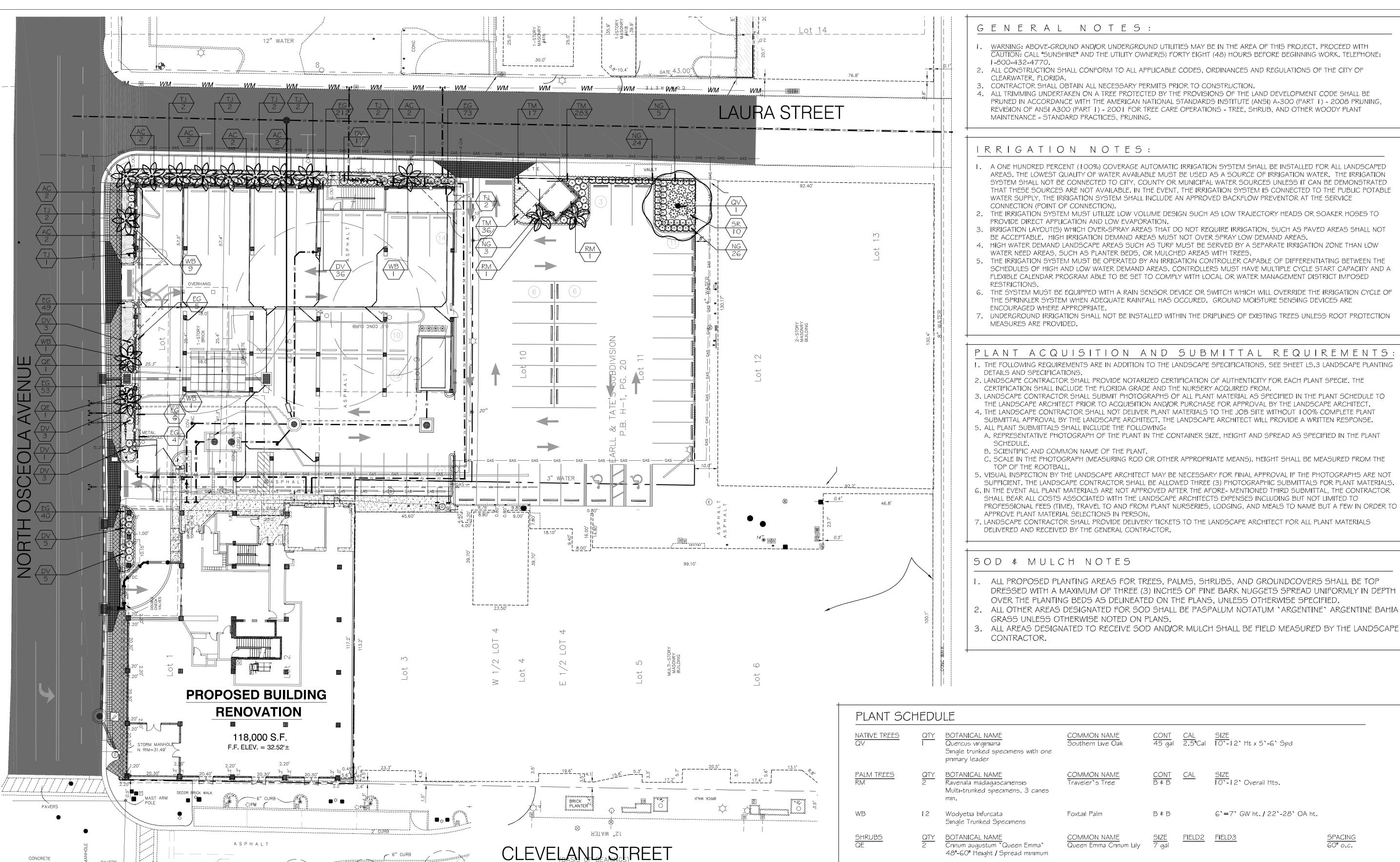
James Montgomery, RLA FL LIC. NO. LA0001737 NOT VALID UNLESS SIGNED & EMBOSSED BY A PROFESSIONAL LANDSCAPE ARCHITECT Paradise By Design, Inc. FL CERTIFICATE OF AUTHORIZATION No. LC26000334

Project / Client:
The Skyview Condominiums 400 Cleveland Street Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

Tree Removal Plan & Existing Tree Calculations

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Project No. 02-012-98	Scale: AS NOTED	Date: 08.28.2015
Drawing No.	Sheet	Revision No.
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CONCRETE

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GENERAL NOTES:

- WARNING: ABOVE-GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT. PROCEED WITH CAUTION: CALL "SUNSHINE" AND THE UTILITY OWNER(S) FORTY EIGHT (48) HOURS BEFORE BEGINNING WORK, TELEPHONE:
- 2. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF THE CITY OF
 - CLEARWATER, FLORIDA.
- 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. 4. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 (PART 1) - 2008 PRUNING, REVISION OF ANSI A300 (PART 1) - 2001 FOR TREE CARE OPERATIONS - TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES, PRUNING.

IRRIGATION NOTES

- . A ONE HUNDRED PERCENT (100%) COVERAGE AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED FOR ALL LANDSCAPED AREAS. THE LOWEST QUALITY OF WATER AVAILABLE MUST BE USED AS A SOURCE OF IRRIGATION WATER. THE IRRIGATION SYSTEM SHALL NOT BE CONNECTED TO CITY, COUNTY OR MUNICIPAL WATER SOURCES UNLESS IT CAN BE DEMONSTRATED THAT THESE SOURCES ARE NOT AVAILABLE. IN THE EVENT, THE IRRIGATION SYSTEM IS CONNECTED TO THE PUBLIC POTABLE WATER SUPPLY, THE IRRIGATION SYSTEM SHALL INCLUDE AN APPROVED BACKFLOW PREVENTOR AT THE SERVICE CONNECTION (POINT OF CONNECTION).
- 2. THE IRRIGATION SYSTEM MUST UTILIZE LOW VOLUME DESIGN SUCH AS LOW TRAJECTORY HEADS OR SOAKER HOSES TO PROVIDE DIRECT APPLICATION AND LOW EVAPORATION.
- 3. IRRIGATION LAYOUT(5) WHICH OVER-SPRAY AREAS THAT DO NOT REQUIRE IRRIGATION, SUCH AS PAVED AREAS SHALL NOT BE ACCEPTABLE. HIGH IRRIGATION DEMAND AREAS MUST NOT OVER SPRAY LOW DEMAND AREAS.
- 4. HIGH WATER DEMAND LANDSCAPE AREAS SUCH AS TURF MUST BE SERVED BY A SEPARATE IRRIGATION ZONE THAN LOW WATER NEED AREAS, SUCH AS PLANTER BEDS, OR MULCHED AREAS WITH TREES.
- 5. THE IRRIGATION SYSTEM MUST BE OPERATED BY AN IRRIGATION CONTROLLER CAPABLE OF DIFFERENTIATING BETWEEN THE SCHEDULES OF HIGH AND LOW WATER DEMAND AREAS. CONTROLLERS MUST HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM ABLE TO BE SET TO COMPLY WITH LOCAL OR WATER MANAGEMENT DISTRICT IMPOSED
- 6. THE SYSTEM MUST BE EQUIPPED WITH A RAIN SENSOR DEVICE OR SWITCH WHICH WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURED. GROUND MOISTURE SENSING DEVICES ARE ENCOURAGED WHERE APPROPRIATE.
- 7. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIPLINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED.

PLANT ACQUISITION AND SUBMITTAL REQUIREMENTS I. THE FOLLOWING REQUIREMENTS ARE IN ADDITION TO THE LANDSCAPE SPECIFICATIONS, SEE SHEET LS.3 LANDSCAPE PLANTING DETAILS AND SPECIFICATIONS.

- 2. LANDSCAPE CONTRACTOR SHALL PROVIDE NOTARIZED CERTIFICATION OF AUTHENTICITY FOR EACH PLANT SPECIE. THE
- CERTIFICATION SHALL INCLUDE THE FLORIDA GRADE AND THE NURSERY ACQUIRED FROM.
- 3. LANDSCAPE CONTRACTOR SHALL SUBMIT PHOTOGRAPHS OF ALL PLANT MATERIAL AS SPECIFIED IN THE PLANT SCHEDULE TO THE LANDSCAPE ARCHITECT PRIOR TO ACQUISITION AND/OR PURCHASE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- 4. THE LANDSCAPE CONTRACTOR SHALL NOT DELIVER PLANT MATERIALS TO THE JOB SITE WITHOUT 100% COMPLETE PLANT SUBMITTAL APPROVAL BY THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT WILL PROVIDE A WRITTEN RESPONSE.
- 5. ALL PLANT SUBMITTALS SHALL INCLUDE THE FOLLOWING: A. REPRESENTATIVE PHOTOGRAPH OF THE PLANT IN THE CONTAINER SIZE, HEIGHT AND SPREAD AS SPECIFIED IN THE PLANT
- SCHEDULE.
- B. SCIENTIFIC AND COMMON NAME OF THE PLANT. C. SCALE IN THE PHOTOGRAPH (MEASURING ROD OR OTHER APPROPRIATE MEANS). HEIGHT SHALL BE MEASURED FROM THE
- . VISUAL INSPECTION BY THE LANDSCAPE ARCHITECT MAY BE NECESSARY FOR FINAL APPROVAL IF THE PHOTOGRAPHS ARE NOT SUFFICIENT. THE LANDSCAPE CONTRACTOR SHALL BE ALLOWED THREE (3) PHOTOGRAPHIC SUBMITTALS FOR PLANT MATERIALS. IN THE EVENT ALL PLANT MATERIALS ARE NOT APPROVED AFTER THE AFORE- MENTIONED THIRD SUBMITTAL, THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THE LANDSCAPE ARCHITECTS EXPENSES INCLUDING BUT NOT LIMITED TO
- APPROVE PLANT MATERIAL SELECTIONS IN PERSON. LANDSCAPE CONTRACTOR SHALL PROVIDE DELIVERY TICKETS TO THE LANDSCAPE ARCHITECT FOR ALL PLANT MATERIALS. DELIVERED AND RECEIVED BY THE GENERAL CONTRACTOR.

SOD # MULCH NOTES

- I. ALL PROPOSED PLANTING AREAS FOR TREES, PALMS, SHRUBS, AND GROUNDCOVERS SHALL BE TOP DRESSED WITH A MAXIMUM OF THREE (3) INCHES OF PINE BARK NUGGETS SPREAD UNIFORMLY IN DEPTH OVER THE PLANTING BEDS AS DELINEATED ON THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 2. ALL OTHER AREAS DESIGNATED FOR SOD SHALL BE PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS UNLESS OTHERWISE NOTED ON PLANS.
- 3. ALL AREAS DESIGNATED TO RECEIVE SOD AND/OR MULCH SHALL BE FIELD MEASURED BY THE LANDSCAPE CONTRACTOR.

PLANT SCF	PLANT SCHEDULE								
NATIVE TREES QV	QTY I	BOTANICAL NAME Quercus virginiana Single trunked specimens with one primary leader	COMMON NAME Southern Live Oak	CONT 45 gal	CAL 2.5"Cal	SIZE 10`-12` Ht x 5`-6` Spd			
PALM TREES RM	QTY 2	BOTANICAL NAME Ravenala madagascariensis Multi-trunked specimens, 3 canes min.	COMMON NAME Traveler`s Tree	CONT B & B	CAL	SIZE 10`-12` Overall Hts.			
WB	12	Wodyetia bifurcata Single Trunked Specimens	Foxtaıl Palm	В≰В		6`=7` GW ht./22`-28` OA ht.			
SHRUBS QE	QTY 2	BOTANICAL NAME Crinum augustum `Queen Emma` 48"-60" Height / Spread minimum	COMMON NAME Queen Emma Crinum Lily	<u>SIZE</u> 7 gal	FIELD2	FIELD3	SPACING 60" o.c.		
DV	73	Dietes vegeta 24"-30" ht / spd	African Iris	3 gal			36" o.c.		
NG	58	Ixora coccinea `Nora Grant` 24" ht x 24" spd	Red Ixora	3 gal			36" o.c.		
SR	10	Strelitzia reginae 60" ht x 48" spd, florida fancy grade	Bird Of Paradise	10 gal			48" o.c.		
VINE/ESPALIER AC	QTY 14	BOTANICAL NAME Allamanda cathartica 10` Height.	COMMON NAME Yellow Allamanda	<u>SIZE</u> 25 gal	FIELD2	FIELD3	SPACING 48" o.c.		
TJ	15	Trachelospermum jasminoides 10` Height	Confederate Jasmine	25 gal			48" o.c.		
GROUND COVERS EG	QTY 442	BOTANICAL NAME Linope muscan `Emerald Goddess` 12" ht / 8" spd	COMMON NAME Emerald Goddess Liriope	CONT I gal	FIELD2	FIELD3	SPACING 24" o.c.		
TM	336	Trachelospermum asiaticum `Minima` 4 to 6 runners, 6" long each min.	Mınıma Jasmıne	I gal			18" o.c.		

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Baker Barrios

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400 CLEVELAND, LLC

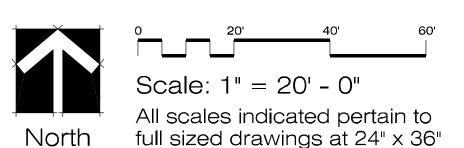
Clearwater, Florida 33755

400 Cleveland Street Clearwater, Florida 33755

Landscape Planting Plan

Project No. AS NOTED 08.28.2015 Revision No.

LS.2 **10** of **11**



CONCRETE

- 2. The OWNER shall have the right to reject any and all work and materials which, in his opinion, do not meet the requirements of the planting plan, details, and these specifications.
- 3. No substitutions shall be made to the planting plan, details or these specifications without the expressed written consent of the LANDSCAPE ARCHITECT.
- 4. The LANDSCAPE CONTRACTOR shall contact the OWNER and the LANDSCAPE ARCHITECT immediately of any conflicts arising during construction or installation of any improvements shown or implied on the drawings and/or specifications.
- 5. The LANDSCAPE CONTRACTOR shall furnish and install all plants as shown on the drawings, as specified, and in the quantities listed on the plant materials list or planting schedule.
- 6. In the event of a variation between the plant schedule and the actual number of plants shown on the planting plan, the planting plan shall control.
- 7. All plants shall be Florida No. I or better. All plants shall be typical of their species or variety and shall have a normal habit of growth. They shall be sound, healthy and vigorous, well-branched and densely foliated when in leaf. They shall be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root systems.
- 8. All plants shall be nursery grown stock and shall comply with all required inspections, grading standards, plant regulations and requirements for measurement, branching, and cultural practices, as set forth in the Florida Department of Agriculture "Grades and Standards for Nursery Plants", Parts I and II, including any revisions as determined by the State Plant Board of Florida.
- 9. All plants shall be hardy under climatic conditions similar to those in the locality of the project.
- 10. As per these drawings and specifications, the "Ht." (height) of proposed plant materials, unless otherwise specified, shall mean the actual distance as measured from the soil stress mark or root flair on the trunk or base of the plant to the top elevation of the plant.
- II. All plants shall conform to the measurements for size as specified in the plant list. Exceptions are plants larger than specified in the plant list may be used if approved by the LANDSCAPE ARCHITECT but, use of such plants shall not increase the contract price. If the use of larger plants is approved, the spread of roots or ball of earth shall be increased in proportion to the size of the plant.
- 12. When plants of a specified kind or size are not available, a reasonable substitution may be made upon request in writing by the LANDSCAPE CONTRACTOR, if approved by the LANDSCAPE ARCHITECT.
- 13. The LANDSCAPE CONTRACTOR shall field verify the location of all work as shown on the plan and contact the LANDSCAPE ARCHITECT immediately of any conflicts and adjust as per the LANDSCAPE Architect's direction.
- 14. The LANDSCAPE CONTRACTOR shall stake all plant material locations from the planting plan prior to installation for approval by the LANDSCAPE ARCHITECT.
- 15. Locations, elevations and dimensions of existing utilities, structures and other features are shown according to the best information available at the time of the preparation of these plans, but do not purport to be absolutely correct. The LANDSCAPE CONTRACTOR shall verify the locations, elevations and dimensions of all existing utilities, structures and other features affecting his work prior to construction.
- 16. It shall be the LANDSCAPE Contractor's sole responsibility to notify "SUNSHINE" and any other interested agencies or parties of his intent to excavate and to obtain from all agencies or other interested parties locations of all existing utilities of every kind in the areas where he intends or plans to excavate. Such locations shall be obtained prior to starting construction and

- shall be maintained during construction.
- 17. The LANDSCAPE CONTRACTOR shall provide at least 48 hours notice to the utility companies in order to permit the location of existing underground utilities in advance of construction.
- 18. The LANDSCAPE CONTRACTOR shall field verify the location of all underground utilities prior to commencement of construction.
- 19. All planting be areas shall be fine graded by the LANDSCAPE CONTRACTOR.
- 20. All proposed planting areas for trees, palms, shrubs, and groundcovers shall be top dressed with a minimum of three (3) inches of pine bark nuggets spread uniformly in depth over the planting beds as delineated on the plans, unless otherwise specified.
- 21. The surface of all areas to be grassed or sodded shall be prepared for the placement of sod by the LANDSCAPE CONTRACTOR. The LANDSCAPE CONTRACTOR shall remove all debris from the areas as shown on the plan to receive sod and lay sod evenly without gaps. All joints shall be staggered.
- 22. All other areas disturbed during construction shall be sodded with Argentine Bahia grass unless otherwise specified on the plans, details or specifications.
- 23. The LANDSCAPE CONTRACTOR shall control runoff and erosion during construction through the use of sediment basins, straw or hay bales as appropriate.
- 24. The LANDSCAPE CONTRACTOR shall sprinkle or otherwise manually apply water to affected construction area to control both significant wind erosion and fugitive dust.
- 25. The LANDSCAPE CONTRACTOR shall at all times keep the premises free from accumulation of waste materials or debris caused by his crews during the performance of the work. Upon completion of the work, the LANDSCAPE CONTRACTOR shall promptly remove all waste materials, debris, unused plant material, empty plant containers and all equipment from the project site.
- 26. The LANDSCAPE CONTRACTOR shall water, mulch, weed, prune, and otherwise maintain all plants, including sod, until completion of the CONTRACT and final acceptance by the OWNER. Settled plants shall be reset to proper grade, planting saucers restored, and defective work corrected.
- 27. Upon completion of the work, the LANDSCAPE CONTRACTOR shall notify the OWNER and the LANDSCAPE ARCHITECT in writing, and re- quest a final inspection. Any items that are judged incomplete or unacceptable by the OWNER or the LANDSCAPE ARCHITECT shall be promptly corrected by the LANDSCAPE CONTRACTOR.
- 28. The LANDSCAPE CONTRACTOR shall quarantee all work and materials furnished under this contract for a period of three hundred sixty five (365) calendar days from the date of final acceptance in writing from the OWNER. At the time of final acceptance, the three hundred sixty five (365) day quarantee period shall commence. Any materials which have died during this period shall be promptly replaced with specimens that meet the minimum requirements called for on these drawings. The LANDSCAPE CONTRACTOR shall not be held responsible for death or damage resulting from lightning, vandalism, automobiles or from negligence by the OWNER. The OWNER shall be responsible for watering and otherwise maintaining plants during the quarantee period if a maintenance agreement is not accepted from the LANDSCAPE CONTRACTOR.
- 29. The LANDSCAPE CONTRACTOR shall examine the soils of all planting areas prior to submitting bids for the suitability to sustain healthy plant growth as called for on the planting plan, details, and these specifications.
- 30. The LANDSCAPE CONTRACTOR shall be responsible for removing all tree stakes and guy wires from trees which are established at the end of one (1) complete growing season. Trees which have been replaced shall remain staked for one (1) full growing season, and the owner shall be responsible for removing tree stakes and guy wires.
- 31. All landscape bids shall be itemized with the amounts based on unit prices. Any substitutions, additions, or deletions will change the total amount of the CONTRACT FEE based on the above mentioned unit price criteria.
- 32. The LANDSCAPE CONTRACTOR shall submit a separate proposal for a one (1) year maintenance agreement as part of the original bid proposal or contract agreement.

PREPARE PLANTING BED

THROUGHOUT GROUND

IN GROUNDCOVER

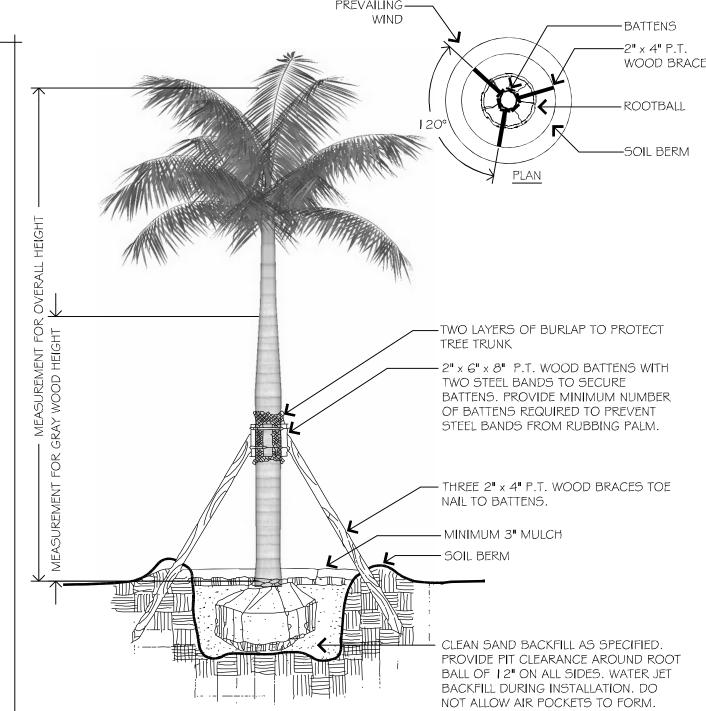
PLANTING BEDS.

REMOVE ALL CONSTRUCTION DEBRIS FROM PLANTING

AREAS. PLANTING SOIL SHALL BE SUITABLE TO

SUSTAIN HEALTHY PLANT GROWTH. PROVIDE

COVER AREA MINIMUM 12" DEPTH OF PLANTING SOIL



FOXTAIL PALM PLANTING DETAII

CULTURE NOTES FOR FOXTAIL PALMS

FOXTAIL PALM GROWS BEST IN FULL SUN BUT TOLERATES A WIDE VARIETY OF WELL-DRAINED SOILS, INCLUDING SOILS WITH A HIGH PH. IT APPEARS WELL SUITED FOR FLORIDA WHERE THIS RECENT INTRODUCTION HAS PERFORMED WELL. IT IS CONSIDERED TOLERANT OF DROUGHT, BUT RESPONDS TO IRRIGATION AND GOOD FERTILITY WITH RAPID GROWTH AND BRIGHT GREEN FOLIAGE. TREES TOLERATE ONLY A LIGHT FROST AND SHOULD ONLY BE PLANTED WHERE TEMPERATURES REMAIN ABOVE FREEZING

ROOT BALLS OF FIELD GROWN NURSERY PLANTS OR ON PALMS DUG AND MOVED IN THE LANDSCAPE SHOULD BE AS LARGE AS POSSIBLE FOR BEST SURVIVAL AND HEALTH FOLLOWING TRANSPLANTING. IF THE ROOT BALL IS ONLY SLIGHTLY WIDER THAN THE TRUNK, IT IS PROBABLY TOO SMALL. BE SURE THEY ARE DUG DEEP ENOUGH BECAUSE. UNLIKE WOODY TREES AND SHRUBS, PALM ROOTS GROW DOWN AND OUT UNDER THE TRUNK. PALMS THAT RECEIVE LITTLE WATER FOLLOWING TRANSPLANTING OFTEN PERFORM BEST WHEN MOST LEAVES ARE REMOVED. THOSE RECEIVING REGULAR IRRIGATION FOLLOWING PLANTING ESTABLISH QUICKEST WHEN ALL LEAVES REMAIN ON THE PALM.

POTASSIUM DEFICIENCY IS THE MOST IMPORTANT PROBLEM ON PALMS IN SOUTH AND CENTRAL FLORIDA. POTASSIUM DEFICIENCY CAN DEVELOP ON OLDER LEAVES AND SHOWS UP EARLY AS TRANSLUCENT YELLOW OR ORANGE OR NECROTIC SPOTTING. NEW FOLIAGE IS USUALLY NOT AFFECTED UNLESS THE DEFICIENCY IS SEVERE AND HAS BEEN PRESENT FOR THE TIPS. THE FRIZZLING THAT FOLLOWS IS MORE PROMINENT TOWARD THE TIPS OF THE LEAVES. AS THE DEFICIENCY PROGRESSES, YOUNGER LEAVES WILL BECOME SYMPTOMATIC. NEW FOLIAGE EMERGES CHLOROTIC AND THE TRUNK BEGINS TO BECOME THINNER TOWARD THE TOP. LATE SYMPTOMS CAN BE CONFUSED WITH MN DEFICIENCY. THE NECROSIS AND FRIZZLING ON OLDER FOLIAGE IS USUALLY CAUSED BY POTASSIUM DEFICIENCY.

DO NOT PRUNE OLDER SYMPTOMATIC LEAVES FROM THE PALM AS THIS WILL FURTHER THE DECLINE. PROVIDE 2-4 POUNDS OF SULFUR COATED POTASSIUM SULFATE AND 1-2 POUNDS OF MAGNESIUM SULFATE 4 TIMES EACH YEAR TO TREAT AND PREVENT THIS PROBLEM. SYMPTOMATIC FOLIAGE WILL NOT GREEN UP BUT NEW LEAVES WILL EMERGE GREEN AND NORMAL, FERTILIZERS CONTAINING A RATIO OF 3N-IP-3K-IMG PROVIDE A RELIABLE MAINTENANCE PROGRAM FOR MOST PALMS. IN ALKALINE SOILS IT IS ALSO A GOOD IDEA TO INCLUDE MANGANESE AND IRON AT A RATIO OF ABOUT 0.5. NITROGEN SHOULD ALSO BE SUPPLIED IN THE SLOW RELEASE FORM. SPREAD FERTILIZER AT LEAST OUT TO THE EDGE OF THE CANOPY.

TRANSPLANTING PALMS

ANY SOIL ABOVE THE TOP-MOST ROOT IN THE ROOT BALL SHOULD BE REMOVED BEFORE PLANTING. PLANT SO THE TOP OF THE ROOT INITIATION ZONE (POINT WHERE THE TOP-MOST ROOT IN THE ROOT BALL JOINS THE TRUNK) IS LOCATED JUST ABOVE THE SURFACE OF THE SOIL. IF THE PALM IS PLANTED TOO DEEP, IT MAY DECLINE SLOWLY OR APPEAR TO DIE SUDDENLY SEVERAL MONTHS OR YEARS AFTER PLANTING. SOIL AMENDMENTS, INCLUDING MYCORRHIZAL-FORMING FUNGI AND FERTILIZER, ARE NOT NEEDED IN BACKFILL SOIL OF NEWLY PLANTED PALMS IN MOST SITUATIONS. REGULAR WATERING IN THE MONTHS FOLLOWING PLANTING IS BEST FOR RAPID ESTABLISHMENT. APPLY ABOUT 2 TO 5 GALLONS PER INCH TRUNK DIAMETER DAILY FOR SEVERAL WEEKS WHEN PLANTING IN SUMMER. IF YOU APPLY FERTILIZER AT OR SOON AFTER PLANTING, APPLY A SLOW RELEASE PRODUCT AND PLACE IT NO CLOSER THAN ABOUT 12 INCHES FROM THE TRUNK TO PREVENT DAMAGING THE ROOT INITIATION ZONE LOCATED AT THE BASE OF THE TRUNK. LEAVES SHOULD BE UNTIED AFTER SETTING THE PALM IN THE PLANTING HOLE. ONCE NEW FOLIAGE APPEARS, SUPPORTING STAKES CAN BE REMOVED BECAUSE ROOTS ARE GROWING INTO THE LANDSCAPE SOIL.

PESTS, DISEASES AND DAMAGING AGENTS

NONE OF MAJOR CONCERN. LEAF SPOT FUNGI CAN IMPACT YOUNG PLANTS, ESPECIALLY THOSE RECEIVING OVERHEAD IRRIGATION. NOT KNOWN TO CONTRACT LETHAL YELLOWING.

OR CURB

GRASS

PLANT LIST).

- EDGE OF BEDLINE

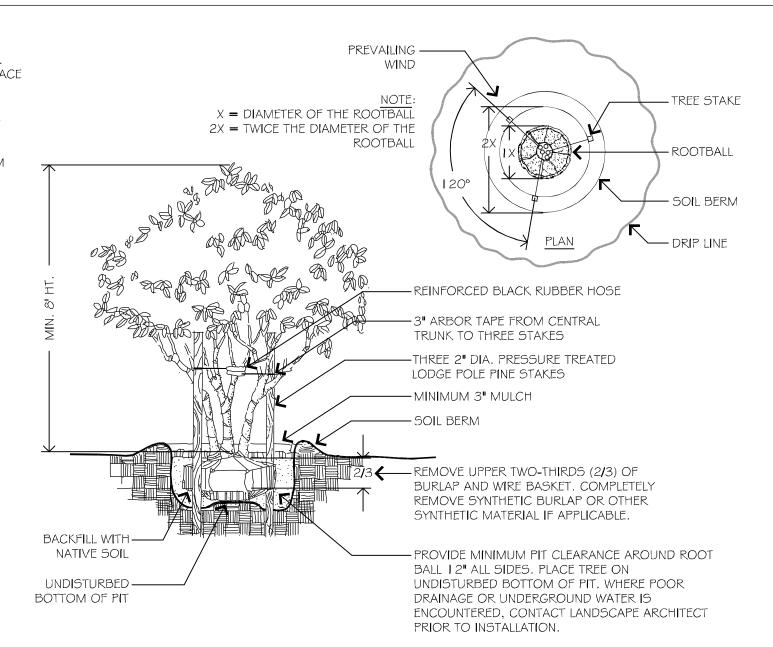
NOTE: LOCATE PLANTS IN A

TRIANGULAR PATTERN AS SHOWN,

SPACED EQUIDISTANT FROM EACH

OTHER (AT SPACING SPECIFIED IN THE

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MULTI-TRUNKED TREE PLANTING DETAIL

not to scale

TREE ESTABLISHMENT SPECIFICATIONS AND NOTES

IN MOST INSTANCES, THE POINT WHERE THE TOP-MOST ROOT IN THE ROOT BALL ORIGINATES FROM THE TRUNK (REFERRED TO AS THE ROOT FLARE ZONE OR ROOT COLLAR) SHOULD BE LOCATED JUST ABOVE THE SOIL SURFACE. YOU MAY HAVE TO DIG INTO THE ROOT BALL TO FIND THE ROOT FLARE. IF THERE IS NURSERY SOIL OVER THIS AREA, SCRAPE IT OFF. NEVER PLACE ANY SOIL OVER THE ROOT BALL. THE PLANTING HOLE SHOULD BE AT LEAST TWICE THE WIDTH OF THE ROOT BALL, PREFERABLY WIDER BECAUSE ROOTS GROW BEST IN LOOSE SOIL. IN ALL BUT EXCEPTIONAL CIRCUMSTANCES WHERE THE SOIL IS VERY POOR, EXTENSIVE RESEARCH CLEARLY SHOWS THAT THERE IS NO NEED TO INCORPORATE ANY AMENDMENTS INTO THE BACKFILL SOIL. SIMPLY USE THE LOOSENED SOIL THAT CAME OUT OF THE PLANTING HOLE. SIMPLY PLANTING WITH THE TOPMOST PORTION OF THE ROOT BALL SLIGHTLY HIGHER THAN THE SURROUNDING SOIL MIGHT STILL INSTALL THE TREE TOO DEEP - BE SURE TO

WEED SUPPRESSION DURING ESTABLISHMENT IS ESSENTIAL. APPLY A 3-INCH THICK LAYER OF MULCH TO AT LEAST A SIX-FOOT DIAMETER CIRCLE AROUND THE TREE. THIS AREA SHOULD BE AT LEAST TWO FEET IN DIAMETER FOR EACH INCH OF TREE TRUNK DIAMETER AND MAINTAINED DURING THE ESTABLISHMENT PERIOD. APPLY A THINNER LAYER OF MULCH DIRECTLY OVER THE ROOT BALL BUT KEEP IT AT LEAST 10 INCHES FROM THE TRUNK. THIS ALLOWS RAINWATER, IRRIGATION AND AIR TO EASILY ENTER THE ROOT BALL AND KEEPS THE TRUNK DRY. PLACING MULCH AGAINST THE TRUNK AND APPLYING TOO THICK A LAYER ABOVE THE ROOT BALL CAN KILL THE PLANT BY OXYGEN STARVATION, DEATH OF BARK, STEM AND ROOT DISEASES, PREVENTION OF HARDENING OFF FOR WINTER, VOLE AND OTHER RODENT DAMAGE TO THE TRUNK, KEEPING SOIL TOO WET, OR REPELLING

REGULAR IRRIGATION AFTER PLANTING ENCOURAGES RAPID ROOT GROWTH THAT IS ESSENTIAL FOR TREE ESTABLISHMEN TREES PROVIDED WITH REGULAR IRRIGATION THROUGH THE FIRST GROWING SEASON AFTER TRANSPLANTING REQUIRE ABOUT 3 MONTHS (HARDINESS ZONES 9-11) PER INCH OF TRUNK DIAMETER TO FULLY ESTABLISH ROOTS IN THE LANDSCAPE SOIL. TREES THAT ARE UNDER-IRRIGATED DURING THIS ESTABLISHMENT PERIOD (AND MOST TREES ARE) OFTEN REQUIRE ADDITIONAL TIME TO ESTABLISH BECAUSE ROOTS GROW MORE SLOWLY. BE PREPARED TO IRRIGATE THROUGH THE ENTIRE ESTABLISHMENT PERIOD, ESPECIALLY DURING PERIODS OF DROUGHT.

IRRIGATION ALSO HELPS MAINTAIN AND ENCOURAGE THE DESIRABLE DOMINANT LEADER IN THE TREE CANOPY ON LARGE-MATURING TREES. INSTEAD OF A DOMINANT LEADER, TREES THAT ARE UNDER-IRRIGATED DURING THE ESTABLISHMENT PERIOD OFTEN DEVELOP UNDESIRABLE, LOW, CO-DOMINANT STEMS AND DOUBLE LEADERS THAT CAN SPLIT FROM THE TREE

UNLIKE ESTABLISHED PLANTS. WHICH DO BEST WITH DEEP. INFREQUENT IRRIGATION, RESEARCH CLEARLY SHOWS THAT RECENTLY TRANSPLANTED TREES AND SHRUBS ESTABLISH QUICKEST WITH LIGHT, FREQUENT IRRIGATION. FOR TREES PLANTED IN SPRING OR SUMMER, PROVIDE ONE TO THREE IRRIGATIONS EACH WEEK DURING THE FIRST FEW MONTHS AFTER PLANTING. DAILY IRRIGATION IN THE WARMEST HARDINESS ZONES PROVIDES THE QUICKEST ESTABLISHMENT. FOLLOWING THE INITIAL FEW MONTHS OF FREQUENT IRRIGATION, PROVIDE WEEKLY IRRIGATION UNTIL PLANTS ARE FULLY ESTABLISHED. WITH EVERY IRRIGATION, APPLY ONE TO TWO GALLONS OF WATER PER INCH TRUNK DIAMETER (E.G. 2 TO 4 GALLONS FOR A 2-INCH TREE) OVER THE ROOT BALL ONLY. IN MOST LANDSCAPES THAT RECEIVE MORE THAN 30 INCHES OF RAIN OR IRRIGATION ANNUALLY. IF THE MULCH AREA IS MAINTAINED WEED-FREE, IRRIGATION DOES NOT NEED TO BE APPLIED OUTSIDE OF THE ROOT BALL.

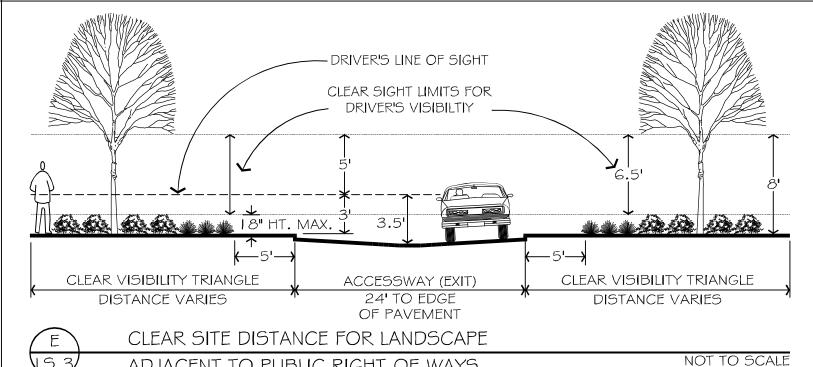
IRRIGATE FALL- AND WINTER-PLANTED TREES AS DESCRIBED FOR THE SPRING- AND SUMMER-PLANTED TREES.

TREES WITH GOOD, STRONG STRUCTURE NEED NO PRUNING AT PLANTING, EXCEPT TO REMOVE BROKEN TWIGS. DO NOT REMOVE BRANCHES TO COMPENSATE FOR ROOT LOSS - RESEARCH HAS SHOWN THAT THIS CAN BE DETRIMENTAL TO

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CHOOSE GOOD QUALITY TREES FOR PLANTING. THE MOST COMMON CAUSE OF YOUNG TREE FAILURE IS PLANTING TOO DEEP

NEVER ADD WATER IF THE ROOT BALL IS SATURATED.



ADJACENT TO PUBLIC RIGHT-OF-WAYS

PROPERTY OWNER SHALL MAINTAIN THE CLEAR VISIBILITY TRIANGLES AT ALL INTERSECTIONS OF INGRESS/EGRESS WITH PUBLIC RIGHTS-OF-WAY. SHRUBS & GROUNDCOVERS WITHIN THE CLEAR VISIBILITY TRIANGLES SHALL BE MAINTAINED AT A HEIGHT NO GREATER THAN EIGHTEEN INCHES (18") ABOVE THE FINISHED GRADE OF THE SUBJECT PROPERTY. TREE LIMBS WITHIN THE CLEAR VISIBILITY TRIANGLES SHALL BE MAINTAINED AT A HEIGHT NO LESS THAN EIGHT FEET (8') ABOVE FINISHED GRADE.

Civil Engineering, Inc.

3000Gulf to Bay Boulevard, Suite 201 Clearwater, FL 33759 Tel. (727)796-1926 Cell (727) 470-1344 www.synergycivileng.com

SYNERGY Civil Engineering, Inc.

SYNERGY

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Consultants

ARCHITECT

Baker Barrios 100 East Madison Street, Suite 100 Tampa, Florida 33602 Ph: (813) 549-1900

SURVEYOR

SUNCOAST LAND SURVEYING, INC.

111 Forest Lakes Boulevard Oldsmar, Florida 34677 Ph: (813) 854-1342 Fx: (813) 855-6890

ANDSCAPE ARCHITECT Paradise by Design, inc.

320 Tucker Street Safety Harbor, Florida 34695 Ph: (727) 797-3580 email: james@paradisebydesigninc.com

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James Montgomery, RLA FL LIC. NO. LA0001737 NOT VALID UNLESS SIGNED & EMBOSSED BY A PROFESSIONAL LANDSCAPE ARCHITECT Paradise By Design, Inc.

P**r**oject / Client: **The Skyview Condominiums** 400 Cleveland Street Clearwater, Florida 33755

400 CLEVELAND, LLC 400 Cleveland Street Clearwater, Florida 33755

Landscape Planting Details & Specifications

AS NOTED 08.28.2015 Revision No. D**r**awing No. LS.3

11 of **11**

SHRUB AND GROUNDCOVER PLANTING DETAIL

PLANT SHRUB SO-

SLIGHTLY ABOVE

FINISHED GRADE

THAT TOP OF

ROOTBALL IS

NOT TO SCALE

MINIMUM PIT CLEARANCE AROUND ROOT BALL OF 6" SIDES AND BOTTOM

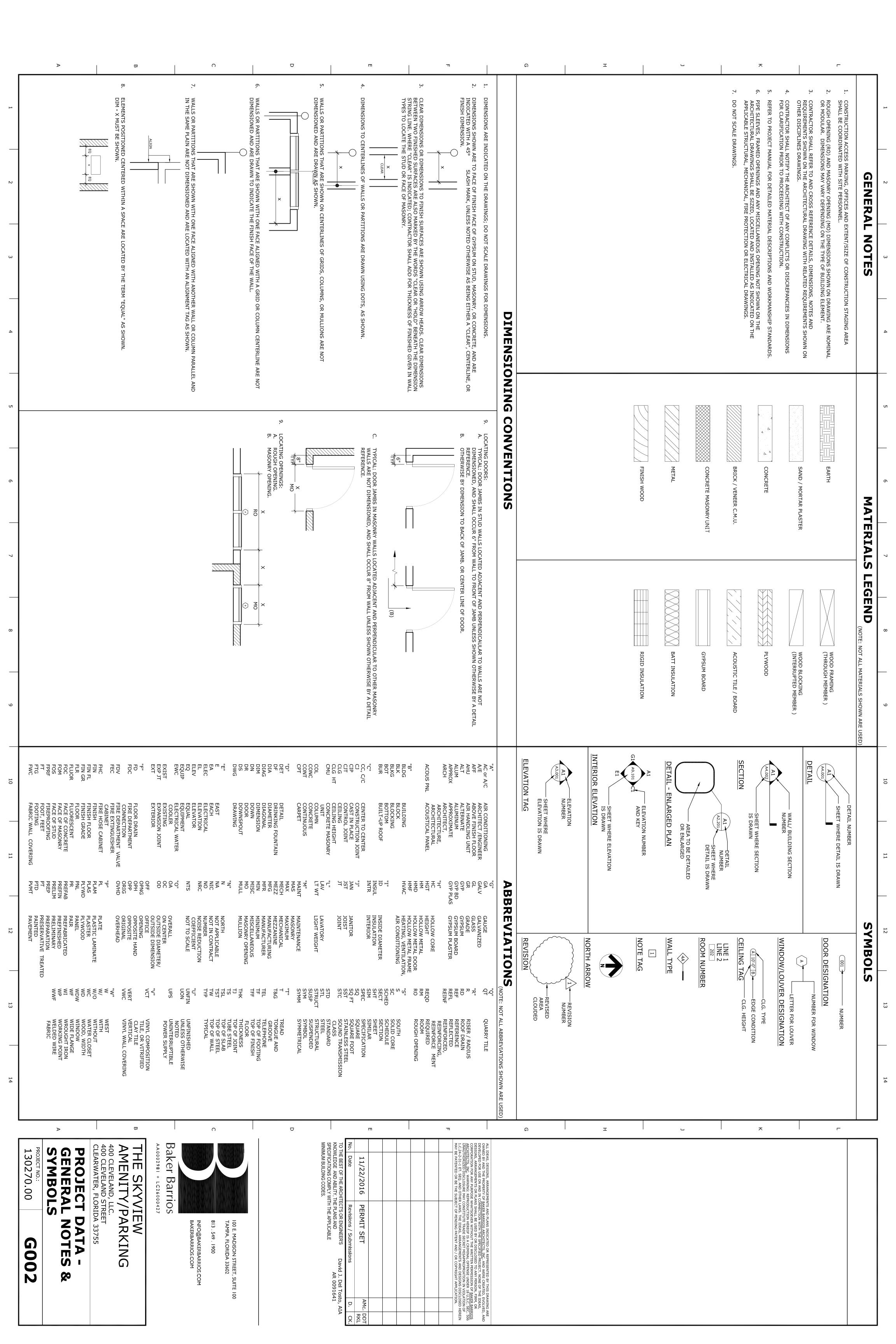
- MINIMUM

3" MULCH

- SOIL BERM

SHRUB / GROUNDCOVER SPACING PLAN

not to scale



2014 FLORIDA BUILDING CODE - WITH CURRENT SUPPLEMENTS 2014 FLORIDA MECHANICAL CODE - WITH CURRENT SUPPLEMENTS 2014 FLORIDA PLUMBING CODE - WITH CURRENT SUPPLEMENTS 2011 NATIONAL ELECTRIC CODE 2014 FLORIDA FIRE PREVENTION CODE 2007 NFPA 13 & 24 2007 NFPA 20 2007 NFPA 88A OSHA CODE OF FEDERAL REGULATIONS - 28 CFR PAR 36 FLORIDA STATUTES FLORIDA ADMINISTRATIVE CODE CITY OF CLEARWATER LAND DEVELOPMENT CODE 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION FLOOD ZONE: PARCEL ID: REQ'D. BLDG. SETBACKS: HEIGHT LIMITATIONS: NO. OF 0 NO REQUIRED PARKING SPACES = (1) ONE PARKING SPACE PER UNIT PER PLANNED DEVELOPMENT ZONING. ON THE SAME LOT, AN R-2 BUILDING IS UNDER CONSTRUCTION, SUBMITTED UNDER FBC 2010. THE NEW PARKING GARAGE AND AMENITY DECK TO SERVE EXISTING BUILDING, BUT WILL BE SUBMITTED UNDER FBC 2014 5TH EDITION. THERE ARE 34 UNITS AND 40 PARKING SPACES WILL BE REQUIRED. GROSS FLOOR AREA OCCUPANCY = S STORAGE/MECH. (300) TOTAL STORAGE OCC. LOAD = 4 OCCUPANCY = A-2 ASSEMBLY - AMENITY RECREATION ROOM (15) TOTAL ASSEMBLY OCC. LOAD = 127 OCCUPANCY = A-2 ASSEMBLY - POOL DECK (30) TOTAL ASSEMBLY OCC. LOAD = 84OCCUPANCY = A-2 ASSEMBLY - POOL TOTAL ASSEMBLY OCC. LOAD = 27 OCCUPANCY = S-2 ACC. STORAGE -TOTAL STORAGE OCC. LOAD = 28 SECOND LEVEL OCCUPANCY = S STORAGE/MECH. (300) TOTAL STORAGE OCC. LOAD = 2 FIRST GARAGE LEVEL OCCUPANT LOAD OCCUPANCY = S-2 ACC. STORAGE - OPEN PARKING TOTAL STORAGE OCC. LOAD = 90 FIRST GARAGE LEVEL AN ADDITIONAL NINE (9) PRIVATE PARKING SPACES PROVIDED ON THE SECOND LEVEL. THE INTERIOR OF THE PRIVATE GARAGE IS A SHELL ONLY, AND THE INTERIOR BUILD PUT WILL BE UNDER A SEPARATE PERMIT. THESE NINE PARKING SPACES ARE NOT PART OF THE REQUIRED COUNT AND THE PROVIDED 41 PARKING SPACES ARE ON GRADE LEVEL. PROPOSED PARKING SPACES NEW TWO-LEVEL PARKING GARAGE WITH SECOND LEVEL AMENITY DECK. **DESCRIPTION OF WORK: NEW CONSTRUCTION - LEVELS** ZONING: TOTAL OCCUPANT LOAD = SECOND LEVEL OCCUPANT LOAD GROSS FLOOR AREA TOTAL OCCUPANT LOAD = LOCATION: **AUTHORITY HAVING JURISDICTION: AMENITY APPLICABLE CODES** OF EXITS REQUIRED =2 OF EXITS PROVIDED =2 **PROJECT INFORMATION** EXITS REQUIRED EXITS PROVIDED SKYV IEW 92 OCCUPANTS 271 OCCUPANTS 13,496 S.F 17,966 S.F. 2 = 41 GRADE LEVEL PARKING SPACES U 1 20 400 **ENCLOSED PRIVATE PARKING GARAGE (200)** EXISTING: REFER TO CIVIL DOCUMENTS EXISTING LAND USE: COMMERCIAL- OFFIC FLOOD ZONE X REFER TO CIVIL DOCUMENTS 0' SET BACKS 31'-0" TO MAIN ROOF AND 40'-0" TO TOP OP ARAPET (PER ZONING) / HOT TUB (50) CLEVELAND STREET, CLEARWATER, 刀 **DECK AND** KING CITY OF CLEARWATER-PLANNING & DEVELOPMENT MUNICIPAL SERVICES BUILDING 100 SOUTH MYRTLE AVENUE CLEARWATER, FL 33756 **GARAGE** CONSTRUCTION TO TOP OFFICE 7 33755 ELECTRICAL STORAGE R PROPOSED NUMBER OF AREA: HEIGHT: F.B.C *Provide an automatic fire-extinguishing system. Where no fire barrier is required, the incidental use area shall be separated by construction capable of resisting the passage smoke. Doors shall be self-closing or automatic-closing upon detection of smoke. Doors shall not have air transfer openings and shall not be undercut in excess of the clearance permitted in accordance with NFPA 80. INCIDENTAL USE AREAS 509: MECHANICAL ROOMS PRIMARY OCCUPANCY: STRUCTURA BASIC WINI F.B.C OTHER OCCUPANCIES: STORAGE GROUP S-1 SECONDARY **TABLE** ROOF PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS NON BEARING EXTERIOR WALLS AND PARTITIONS NON BEARING INTERIOR WALLS AND PARTITIONS ROOF CONSTRUCTION AND SECONDARY MEMBERS FLOOR CON TYPE IIB CONSTRUCTION F.B.C. CHAPTER VI IN BUILDINGS WITH AUTOMATIC SPRINKLER SYSTEM **ASSEMBLY** TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES: ALLOWED: MAXIMUM NUMBER OF STORIES: MAXIMUM AREA: TABLE 503 MAXIMUM HEIGHT: TABLE 503 F.B.C CHAPTER V GENERAL BUILDING HEIGHTS AND AREAS CHAPTER 3 SECTION 454: SWIMMING POOLS AND BATHING PLACES (PUBLIC EXTERIOR **INSULATIO** HIGH IMPACT ZONE: SITE IS WITHIN WIND -BORNE DEBRIS REGION COMPONENTS AND CLADDING DESIGN PRESSURE: REFER TO PLANS FOR LOCATIONS INTERNAL PRESSURE COEFFICIENTS: Kz WIND DIRECTIONAL FACTOR; RISK CATEGORY: **EXPOSURE** TYPE IIB REQUIREMENTS TABLES TYPE II-B & ECTION 406: **CHAPTER III USE & OCCUPANCY** CHA 503 CAL ROOMS ROOMS D SPEED: & STORAGE 0 ELEVATORS AND CONVEYING SYSTEMS **NALLS** NS MINIMUM R-VALUES CATEGORY: PTER IV STRUCTION AND SECONDARY MEMBERS STORIES: OCCUPANCIES: S-2 ACC. GROUP A-3: GENERAL BUILDING HEIGHT AND AREA LIMITATIONS: DESIGN CRITERIA: MOTOR VEHICLE-RELATED OCCUPANCIES (OVER 1200 AMPS) TYPE SPECIAL DETAILED REQUIREMENTS ASSEMBLY - A-3 9 (R-8 (R-30 MINIMUM) GLAZING UP TO 30' LARGE MISSILE CONSTRUCTION CONTINUOUS RIGID BOARD 601 (MIN.) CLIMATE STORAGE CLASSIFICATION 0.85 145 MPH =/-0.18 ZONE 2 STORIES (504.2) = <u>3 STORIES</u> 9,500 S.F. (506.3 X 2) = <u>19,000 S.F.</u> 55' (504.2) = 75'. MAXIMUM HEIGHT ALLOWED BY CITY OF CLEARWATER IS 31' TO MAIN ROOF AND 40' TO TOP OF PARAPET. 1 HR SEPARATION* 1 HR SEPARATION* 1 HR SEPARATION* 0-HOURS 0-HOURS 0-HOURS REFER TO 0-HOURS 0 2 STORIES TOTAL +/- 13,496 S.F. 27'-11" (ROOF SLAB) 34'-8" (PARAPET AT ELEVATOR) 0-HOURS 0-HOURS REQUIRED INSULATION AND PRIVATE) TABLE 0 HOUR 1 HOUR 0 HOUR TABLE 602 - SEE BEL 0-2 HOURS (REFER TO PLANS) 2 HOUR (AT GENERATOR A TO CONCRETE TH 1 HOUR **PROVIDED** OR <100 BELOW X'<5' 5'<X<10' 10'<X<30' 708.1 3006.4 713.12 713.7 713 CONT. 713 EXTERIOR BEARING WALLS PROVIDED 1 HOUR FIR CAR ELEVATOR. FBC FIRE SEPARATION DISTANCE X (FT) FIRE DOORS AND FIRE 716 OPENING PROTECTIVE STAIRS AND CAR ELEVATOR ARE TABLE 602 SECTION 705.5 FIRE-RESISTANCE RATINGS IN AN TABLE 602 TYPE II-B FIRE-RESISTANCE RATING SEPARATION DISTANCE 708 FIRE 707 3 9 SECTION 707 FIRE BARRIERS 2 HOUR REQUIRED TABLE 601 **CHAPTER VI** II-B CONSTRUCTION F.B.C. **PARTITIONS** SEPARATED OCCUPANCIES FIRE CEILING -CORRIDOR FIRE RESISTANCE FIRE RESISTANCE FIRE RESISTANCE SHAFT DOOR OPENING FIRE RESISTANCE RATING -SHAFT FIRE RESISTANCE RATING FIRE BARRIERS (EXIT ACCESS) **EXTERIOR WALLS** OTHER FIRE BARRIERS FIRE BARRIERS TYPE OF ASSEMBLY CHAPTER AT GENERATOR WALL FIRE & SHUTTER FIRE **SMOKE PROTECTION** ALL ALL TYPE OF CONSTRUCTION (SHAFTS) RATING OF ELEVATOR MACHINE ROOM -RATING OF SHAFT FI σ I۸ \times PROTECTION RATING FBC TABLE 716.5 ٨ **RATING** AND CEILING FOR FIRE SEPARATION DISTANCE 10 RESISTANCE RATING OF GENERATOR AT WALL AND $\frac{2 \text{ HOUR}}{2 \text{ HOUR}}$ FOR FIRE SEPARATION DISTANCE 1 HRS 2 HRS 1 HRS 1 HRS ASSE REQUIRED/PROVIDED TABLE 1018.1-REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE MBLY RATING RE RESISTANCE EXTERIOR WALL **FEATURES** E-RESISTANCE RATING AT STAIRS AND AT REQUIRED - TABLES 601 & 602 AT ROOF 1 13 $1^{\frac{1}{2}}$ HRS 3/4 HRS 3/4 HRS 3/4 HRS OPENING RATING 1 HOUR 1 HOUR 1 HOUR 1 HOUR 1 HOUR (45 MIN.) (45 MIN.) (45 MIN.) (90 MIN.) 14 $\boldsymbol{\varpi}$ G エ J $\overline{}$ \vdash D ⊳ **Baker Barrios** 400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755 AMENITY/PARKING THE SKYVIEW PROJECT DATA & 130270.00 CODE ANALYSIS 11/22/2016 , THE PLANS AND WITH THE APPLICABLE PERMIT SET 100 E. MADISON STREET, SUITE 100 TAMPA, FLORIDA 33602 INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM 813 . 549 . 1900 G003

David J. Del Tosto, AR 0091641

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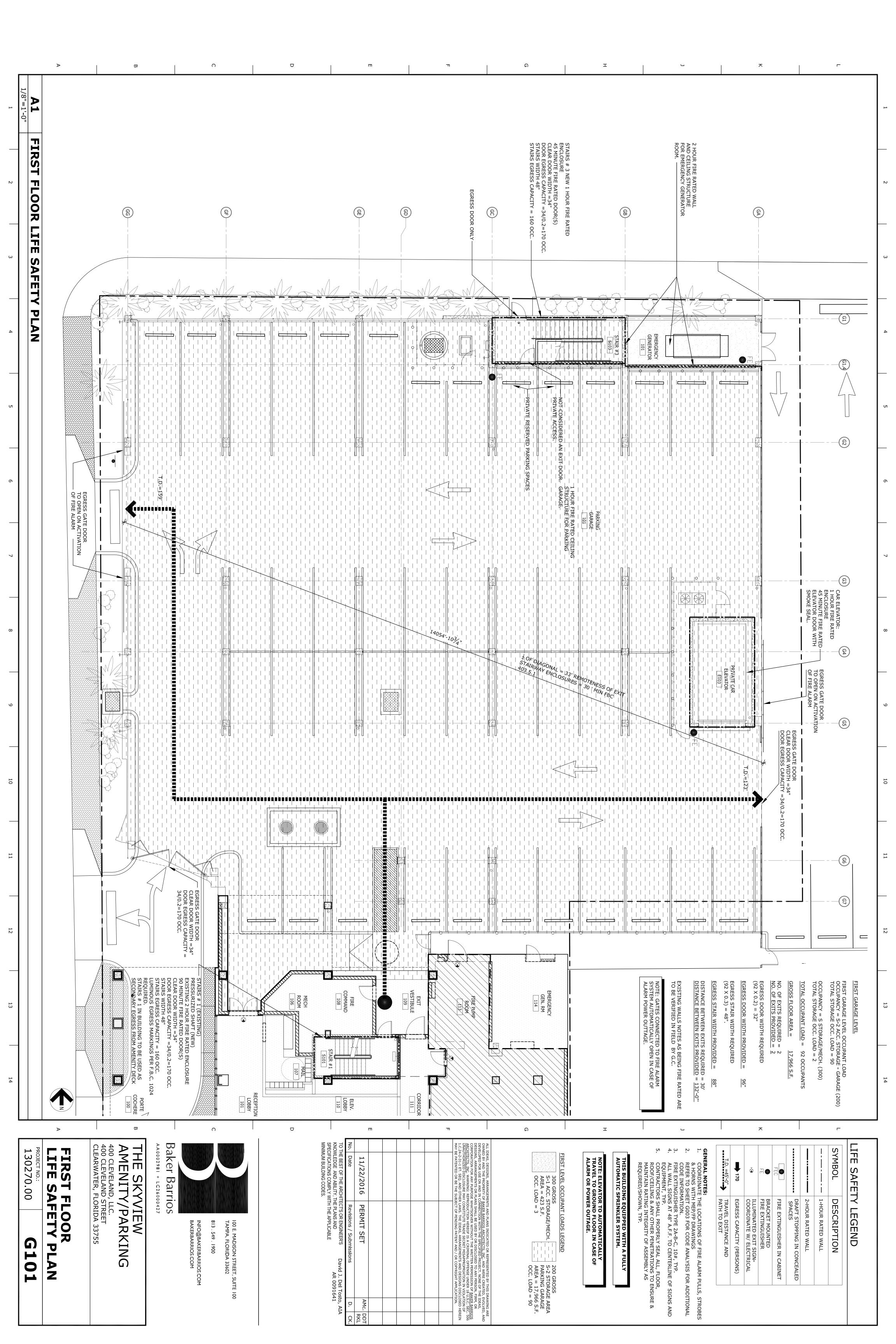
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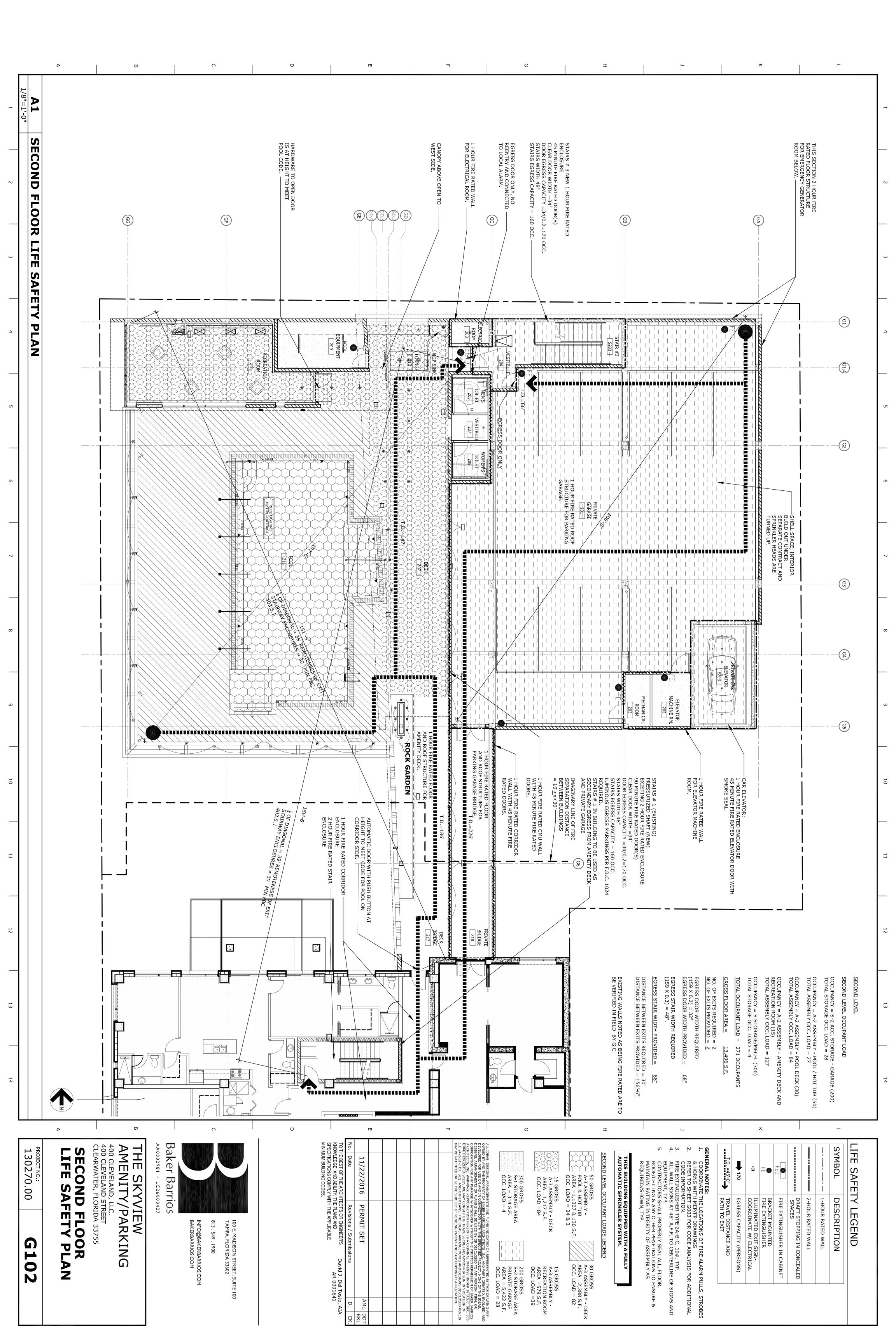
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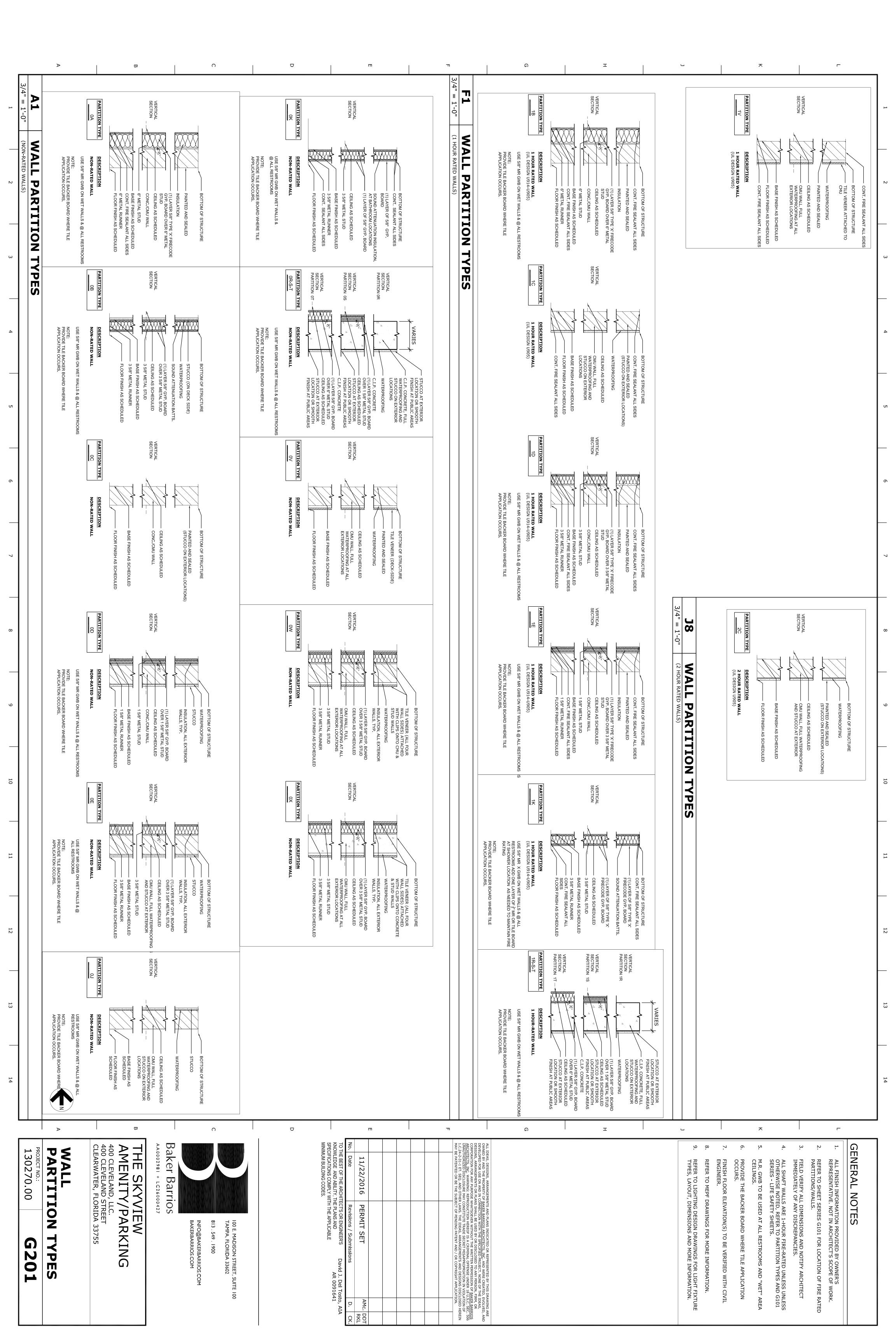
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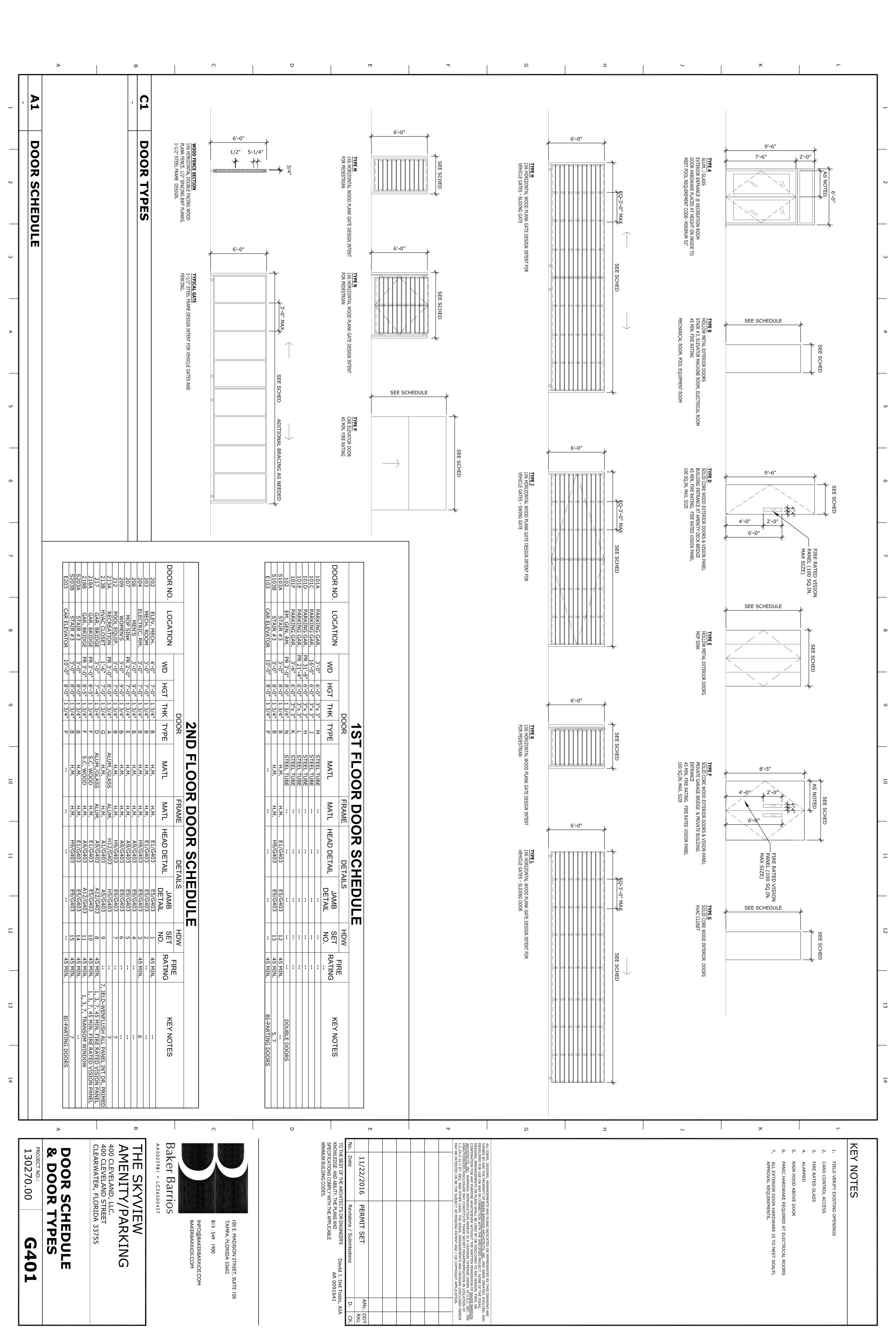
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		DDOJECT TEAM
F.B.C. PLUMBING	FLORIDA PRODUCT APPROVAL INFORMATION: (PER 2014 FLORIDA BLDG. CODE)	PROJECT TEAM OWNER
CHAPTER IV	(GC RESERVES THE RIGHT TO SUBSTITUTE LIKE PRODUCTS FOR APPROVAL & RESUBMIT REVIEWED INFORMATION)	400 CLEVELAND, LLC
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES TABLE 403.1.	CATEGORY PRODUCT MANUFACTURER FL.P.A.# DATE APPROVED	400 CLEVELAND STREET CLEARWATER, FL 33755
SECTION 403.6 SANITARY FACILITIES FOR PUBLIC SWIMMING POOLS, EXCEPTION, FOR A SWIMMING POOL SERVING ONLY A DESIGNATED GROUP OF RESIDENTIAL DWELLING UNITS.	ROOFING MOD.BIT. JOHNS MANVILLE 2948-R6 S-31 2013 APPROVED	Tel. 727-412-2121 ARCHITECT
SECOND FLOOR AMENITY AREA:	WINDOWS STOREFRONT YKK-YHS50 F1 14218.2/4 2013 APPROVED	BAKER BARRIOS ARCHITECTS INC.
OCCUPANCY ON SECOND FLOOR AMENITY:	YKK-YHS 50FS 14218.3/4	100 EAST MADISON STREET, SUITE 100 TAMPA, FL 33602 Tel. 813.549.1900
A-3 ASSEMBLY: 128	CURTAIN WALL YKK-YHS 300 IG 14217.1 12610.1/2	CIVIL
ASSUME TOTAL OF 128 OCCUPANCY OF A-3. DIVIDE BY TWO: 64 MALE 64 FEMALE	FIXED WINDOW YKK-YOW 225 H 7569.1 2012 APPROVED	SYNERGY CIVIL ENGINEERING, INC. 3000 GULF TO BAY BOULEVARD
GROUP A-3 (ASSEMBLY) : REQUIRED: PROVIDED:	DOORS DOOR YKK-35H 16554.1 2012 APPROVED	TAMPA, FL 33602 Tel. 727-796-7926
WATER CLOSETS: 1 PER 125 FOR MALE = 1 $\frac{2^*}{1}$ 1 PER 65 FOR FEMALE =1 1	SINGLE H.M. DOOR INGERSOL 12-0305.16 EX 2015	STRUCTURAL
LAVATORIES: 1 PER 200 FOR MALE =1 $\underline{1}$	DOUBLE DOOR INGERSOL 12-0305.15 EX 2015	B&W STRUCTURAL DESIGNS, LLC. 201 NORTH FRANKLIN STREET, SUITE 1970
$1 \text{ PER 200 FOR FEMALE} = 1 \qquad \underline{1}$ $DRINKING FOUNTAINS: \qquad 1 \text{ PER 500} \qquad \underline{2 \text{ (HIGH/LOW)}}$		TAMPA, FL. 33602 Tel. 813-374-2459
* 1 URINAL PROVIDE DUE TO SPA AND HOT TUB	ALL GLAZING WITHIN EXTERIOR WINDOWS AND DOORS WILL BE IMPACT RESISTANT TO MEET CURRENT CODE REQUIREMENTS. GLAZING BELOW 30' GRADE LEVEL WILL MEET THE LARGE MISSILE IMPACT REQUIREMENTS.	MEPF
EXTERIOR SHOWER PROVIDED DUE TO SPA AND HOT TUB	GLAZING ABOVE 30' WILL MEET THE SMALL MISSILE REQUIREMENTS	VOLT AIR CONSULTING ENGINEERS
BABY CHANGING STATIONS: 1 PER MALE = 1 $\frac{1}{1}$ 1 PER FEMALE = 1 $\frac{1}{1}$		220 WEST 7TH AVENUE, SUITE 210 TAMPA, FL. 33602 Tel. 888-891-9713
		CONTRACTOR
		WICHMAN CONSTRUCTION
		5029 West Grace Street TAMPA, FL 33607
		Tel. 813-282-1179
		ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS
		ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.
		11/22/2016 PERMIT SET AMc. DDT RKL No. Date Revisions / Submissions D. CK.
		No. Date Revisions / Submissions D. CK. TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S David J. Del Tosto, AIA KNOWLEDGE AND ABILITY, THE PLANS AND AR 0091641
		SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.
		100 E. MADISON STREET, SUITE 100
		TAMPA, FLORIDA 33602 813 . 549 . 1900
		INFO@BAKERBARRIOS.COM
		BAKERBARRIOS.COM
		Baker Barrios
		AA0002981 + LC26000427
		THE SKYVIEW
		AMENITY/PARKING 400 CLEVELAND, LLC.
		400 CLEVELAND STREET CLEARWATER, FLORIDA 33755
		PROJECT DATA &
		CODE ANALYSIS
		PROJECT NO.: 130270.00 G004









	1 2 3 4	5 6 7	7	8 9 1	.0	11 12 13	14	
	Heading 1, Hardware Set 01 Aluminum sliding doors Mk. 101B	Heading 10, Hardware Set 11	s	Heading 19, Hardware Set 20 Single generator door 109		Heading 28, Hardware Set 29 B-3 closet doors		
	All hardware by aluminum door supplier.	Exterior Single roof stair S1102	3	Each: 3'0" x 8'0" x 1-3/4"		Each leaf: 2'10" x 8'0" x 1-3/4"		PROJECT TEAM
	Heading 2, Hardware Set 02 Pairs of aluminum doors Mk. 101A, 120A, 120B, 120C, 120D, 120E	Each: 3'0" x 8'0" x 1-3/4"		Each to have: Each to have: Each Hinges Each Hinges ECBB1100 ECBB1100 ECBB1100	652 Hager	B-11 closet doors Each leaf: 1'6" x 8'0" x 1-3/4"	L	OWNER
	Single aluminum doors Mk. 1012A, 120A, 120B, 120B, 120B, 120B	Each to have: 4 ea. Hinges ECBB1101 4.5" x 4.5" NRP 630 Ha	1	ea. Panic device 4701-F RIM 47CE entry trim ea. Cylinder 3902	630 Hager 626 Hager	4 ea. Hinges by prehung door manufacturer		400 CLEVELAND, LLC
	Masterkeyed cylinders as required by aluminum door hardware. Coordinate with aluminum door supplier.	1 ea. Passage latch 3580 626 Ha 1 ea. Classroom deadbolt 3118 key on inside of door 626 Ha	Hager 1	ea. Door closer 5200 ea. Wall stop 232W	689 Hager 630 Hager	1 ea. Passage latch 3610 62	26 Hager 26 Hager	400 CLEVELAND STREET
_	Supplier. All other hardware by aluminum door supplier. Heading 3, Hardware Set 03	1 ea. Door closer 5200 689 Ha 1 ea. Floor stop 241F 626 Ha	Hager 1	ea. Threshold 436S 36" ea. Smoke seal 726S 19'	MIL Hager charcoal Hager	Use two BL6212 hinge pin stops (per leaf) where door does not swing against wall.		CLEARWATER, FL 33755 Tel. 727-412-2121
	Pairs of doors: Elevator Lobby 010, Vault Lobby 001, Tenant Storage 013	1 ea. Threshold 413S 36" MIL Ha 1 ea. Door sweep 750SN 36" MIL Ha	Hager	Heading 21, Hardware Set 22	charcoar riager	Heading 29, Hardware Set 30 B-4 pair of den doors		ARCHITECT
	Each leaf: 3'0" x 8'0" x 1-3/4"	1 set Weatherstrip 891SV 1/36" x 2/96" MIL Ha 1 ea. Rain drip 810S 40" MIL Ha	Hager S	Single electric room doors 209, 309, 409, 509, 609, 709, 809, 909, 1009 door 017		Each leaf: 2'0" x 8'0" x 1-3/4" B-5 pair of bedroom doors		
	Each set to have: 8 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager	Heading 11, Hardware Set 12	nagei d	Each: 3'0" x 8'0" x 1-3/4"		Each leaf: 3'0" x 8'0" x 1-3/4" B-6 pair of bathroom doors	к	BAKER BARRIOS ARCHITECTS INC. 100 EAST MADISON STREET, SUITE 100
	1 set Self-latch FB 293D 626 Hager (Use 294D at pairs of wood doors)	Single trash room doors Mk. 112, 611, 711, 811, 911		Each to have: Each to have: Each Hinges Each Hinges ECBB1100 ECBB1100 ECBB1100	652 Hager	Each leaf: 1'6" x 8'0" x 1-3/4"		TAMPA, FL 33602
	1 ea. Latchset 3510 626 Hager 1 ea. Dummy lever 3527 626 Hager	Each: 3'0" x 8'0" x 1-3/4"	1	ea. Storeroom lock 3580 ea. Door closer 5200 HDS	626 Hager 689 Hager	8 ea. Hinges by prehung door manufacturer 1 ea. Flushbolt 1414 (top of door only) 62	26 Hager	Tel. 813.549.1900
	2 ea. Door closers P-5200 HDS 689 Hager 1 ea. Threshold 436S 72" MIL Hager	Each to have: 4 ea. Hinges	1	ea. Threshold 436S 36" ea. Smoke seal 726S 19'	MIL Hager charcoal Hager	1 ea. Privacy latch 3640 62	26 Hager 26 Hager	CIVIL
	1 ea. Smoke seal 726S 22' charcoal Hager Metal edge/astragals by door supplier.	1 ea. Passage latch 3510 626 Ha	Hager	Heading 22, Hardware Set 23	charcoarriager	Use two BL6212 hinge pin stops (per leaf) where door does not swing against wall.	is riage.	SYNERGY CIVIL ENGINEERING, INC.
	Heading 4, Hardware Set 03 Pairs of doors: Elevator Lobby 210, 310, 410, 510, 610, 710, 810, 910, 1010	1 ea. Door closer 5200 689 Ha 1 ea. Floor stop 241F 626 Ha 1 ea. Threshold 436S 36" MIL Ha	Hager	Single exterior service entry door Mk. 1007		Heading 30, Hardware Set 31 B-3 pair of closet doors		3000 GULF TO BAY BOULEVARD
	Each leaf: 3'0" x 8'0" x 1-3/4"	1 ea. Smoke seal 726S 19' charcoal	i lagoi	Each: 3'0" x 8'0" x 1-3/4"		Each leaf: 2'10" x 8'0" x 1-3/4"	J	TAMPA, FL 33602
	Each set to have: 8 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager	Heading 12, Hardware Set 13	E	Each to have:		8 ea. Hinges by prehung door manufacturer		Tel. 727-796-7926
	1 set Self-latch FB 293D 626 Hager (Use 294D at pairs of wood doors)	Single trash room doors Mk. 211, 311, 411, 511, 1011	4	ea. Hinges ECBB1101 4.5" x 4.5" ea. Entry latch 3553	630 Hager 626 Hager	2 ea. Ball catches 1446 62	16 Hager 16 Hager	STRUCTURAL
_	1 ea. Latchset 3510 626 Hager 1 ea. Dummy lever 3527 626 Hager	Each: 3'0" x 8'0" x 1-3/4" Each to have:	1	ea. Deadbolt 3115 ea. Door closer 5200	626 Hager 689 Hager	4 ea. Hinge pin stops BL6212 62	6 Hager	B&W STRUCTURAL DESIGNS, LLC. 201 NORTH FRANKLIN STREET, SUITE 1970
	2 ea. Door closers P-5200 HDS 689 Hager 2 ea. Magnetic holders 380S LS Hager	4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Ha 1 ea. Passage latch 3510 626 Ha	Hager 1	ea. Roller stop 271W ea. Threshold 413S 36"	630 Hager MIL Hager	Heading 31, Hardware Set 32		TAMPA, FL. 33602
	1 ea. Threshold436S72"MIL Hager1 ea. Smoke seal726S22'charcoal Hager	1 ea. Door closer 5200 689 Ha 1 ea. Overhead stop 6016 630 Ha	Hager 1	ea. Door sweep 750SN 36" set Weatherstrip 891SV 1/36" x 2/96"	MIL Hager MIL Hager	Bifold closet doors C-1, C-2, C-3, C-4, C-5		Tel. 813-374-2459
1	Metal edge/astragals by door supplier. Heading 5, Hardware Set 04	1 ea. Smoke seal 436S 36" MIL Ha 1 ea. Smoke seal 726S 19' charcoal Hager	Hager	Heading 23, Hardware Set 24		All track and hardware by bifold door manufacturer.	н	MEPF
	Single door Mk. 110	Heading 13, Hardware Set 14	S	Single corridor doors in basement				VOLT AIR CONSULTING ENGINEERS
	Each: $3'0" \times 8'0" \times 1-3/4"$ Each to have:	Single entry doors Mk. 105A, 120F Each: 3'0" x 8'0" x 1-3/4"		Each: 3'0" x 8'0" x 1-3/4"				220 WEST 7TH AVENUE, SUITE 210
\dashv	4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager 1 ea. Panic device 4701-F RIM 47BE passage trim 630 Hager	Each: 3′0″ x 8′0″ x 1-3/4″ Each to have: 4 ea. Hinges ECBB1100 4.5″ x 4.5″ 652 Ha		Each to have: ea. Hinges ECBB1100 4.5" x 4.5"	652 Hager		L-	TAMPA, FL. 33602
	1 ea. Door closer 5200 HDS 689 Hager 1 ea. Threshold 436S 36" MIL Hager	1 ea. Entry lock 3553 626 Ha	Hager 1	ea. Passage latch 3510	626 Hager			Tel. 888-891-9713
	1 ea. Smoke seal 726S 19' charcoal Hager Heading 5, Hardware Set 06	1 ea. Door closer 5200 689 Ha 1 ea. Wall stop 236W 630 Ha	Hager 1	ea. Wall stop 232W	689 Hager 630 Hager			CONTRACTOR
6	Pair of doors Mechanical Room 015	1 ea. Threshold 436S 36" MIL Ha 1 ea. Smoke seal 726S 19' charcoal		ea. Threshold 436S 36" ea. Smoke seal 726S 19'	MIL Hager charcoal Hager		G	WICHMAN CONSTRUCTION
	Each leaf: 3'0" x 8'0" x 1-3/4"	Heading 14, Hardware Set 15		Heading 23, Hardware Set 24				5029 West Grace Street
	Each to have: 8 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager	Single exterior doors Mk. 108, 113, 1101, 1102	S	Single corridor doors in basement				TAMPA, FL 33607 Tel. 813-282-1179
	2 ea. Flushbolts 282D 626 Hager 1 ea. Storeroom lock 3580 626 Hager	Each: 3'0" x 8'0" x 1-3/4"	_	Each: 3'0" x 8'0" x 1-3/4"			<u> </u>	ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE
	2 ea. Door closers 5200 HDS 689 Hager 1 ea. Threshold 436S 72" MIL Hager	Each to have:	4	Each to have: ea. Hinges ECBB1100 4.5" x 4.5"	652 Hager			OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS
	1 ea. Smoke seal 726S 22' charcoal Hager	4 ea. Hinges ECBB1101 4.5" x 4.5" NRP 630 Ha 1 ea. Passage latch 3510 626 Ha	Hager 1	ea. Passage latch 3510 ea. Door closer 5200	626 Hager 689 Hager			ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN
:	Heading 6, Hardware Set 07	1 ea. Deadbolt 3115 626 Ha 1 ea. Door closer 5200 HDS 689 Ha	Hager 1	ea. Wall stop ea. Threshold 436S 36"	630 Hager MIL Hager		F	MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.
	Single doors Transformer 018, Mech/Storage 017	1 ea. Threshold 413S 36" MIL Ha	Hager	ea. Smoke seal 726S 19' Heading 24, Hardware Set 25	charcoal Hager			
	Each: 3'0" x 8'0" x 1-3/4"	1 ea. Door sweep 750SN 36" MIL Ha 1 set Weatherstrip 891SV 1/36" x 2/96" MIL Ha	Hager S	Single vault room doors in basement				
_	4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager 1 ea. Storeroom lock 3580 626 Hager	1 ea. Rain drip 810S 40" MIL Ha Heading 15, Hardware Set 16	Hager	Each: 3'0" x 8'0" x 1-3/4"			<u> </u>	
	1 ea. Door closer 5200 689 Hager 1 ea. Wall stop 232W 630 Hager	Single interior restroom doors Mk. Women's 002, Men's 003	E	Each to have:				
	1 ea. Threshold436S36"MIL Hager1 ea. Smoke seal726S19'charcoal Hager	Each: 3'0" x 8'0" x 1-3/4"		ea. Hinges ECBB1100 4.5" x 4.5" ea. Storeroom lock 3580	652 Hager 626 Hager			
.	Heading 7, Hardware Group 08	Each to have:		ea. Door closer 5200 HDS ea. Wall stop 232W	689 Hager 630 Hager		E	
	Exterior single exit doors Mk. S101A, 111	4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Ha 1 ea. Privacy latch 3540 626 Ha	Hager	ea. Smoke seal 726S 19' Heading 25, Hardware Set 26	charcoal Hager			11/22/2016 PERMIT SET AMc. DDT RKL
	Each: 3'0" x 8'0" x 1-3/4"	1 ea. Door closer 5200 689 Ha 1 ea. Wall stop 236W 630 Ha	_	A-1 single unit entry doors				No. Date Revisions / Submissions D. CK. TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S David J. Del Tosto, AIA
_	Each to have: 4 ea. Hinges ECBB1101 4.5" x 4.5" NRP 630 Hager	3 ea. Door silencers 307D gray Ha	Hager	Each: 3'0" x 8'0" x 1-3/4"			L	KNOWLEDGE AND ABILITY, THE PLANS AND AR 0091641 SPECIFICATIONS COMPLY WITH THE APPLICABLE
	1 ea. Panic device 4701-F RIM 47NL storeroom trim 630 Hager 1 ea. Keyed cylinder 3901 626 Hager	Heading 16, Hardware Set 17 Single exterior restroom doors Mk. 1003, 1004		Each to have:				MINIMUM BUILDING CODES.
	1 ea. Electric strike Genesis 9500 2005M3 x 2006M 630 HES 1 ea. Proximity reader 2920 630 Hager	Each: 3'0" x 8'0" x 1-3/4"	2 2	2 ea. Hinges ECBB1100 4.5" x 4.5" 2 ea. Spring hinges 1250 4.5" x 4.5"	652 Hager 652 Hager			
	1 ea. Door closer 5200 HDS 689 Hager 1 ea. Threshold 413S 36" MIL Hager	Each to have: 4 ea. Hinges ECBB1101 4.5" x 4.5" 630 Ha	1	ea. Entry lock 3553 ea. Wall stop 232W	626 Hager 630 Hager		D	
	1 ea. Trifeshold 4135 36 MIL Hager 1 ea. Door sweep 750SN 36" MIL Hager 1 set Weatherstrip 891SV 1/36" x 2/96" MIL Hager	1 ea. Privacy latch 3540 626 Ha 1 ea. Deadbolt 3115 626 Ha	Hager	Use roller stop 271W where door opens against cl ea. Door viewer 1756				
	1 ea. Rain drip 810S 40" MIL Hager	1 ea. Door closer 5200 689 Ha 1 ea. Wall stop 236W 630 Ha	Hager 1	ea. Threshold 436S 36" ea. Smoke seal 726S 19'	MIL Hager charcoal Hager			
_	Heading 8, Hardware Set 09	1 ea. Threshold 413S 36" MIL Ha 1 ea. Door sweep 750SN 36" MIL Ha	Hager	Heading 26, Hardware Set 27 A-2 pairs of unit entry doors	Ÿ		L	
	Interior single access control stair Mk. S103	1 set Weatherstrip 891SV 1/36" x 2/96" MIL Ha 1 ea. Rain drip 810S 40" MIL Ha	Hager	Each leaf: 3'0" x 8'0" x 1-3/4"				
	Each: 3'0" x 8'0" x 1-3/4" Each to have:	Heading 17, Hardware Set 18 Single interior closet doors Mk. 105B, AC Closet 06	-	Each to have:				TAMPA, FLORIDA 33602
:	4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager 1 ea. Panic device 4701-F RIM 47NL storeroom trim 630 Hager	Each: 3'0" x 8'0" x 1-3/4"	4	Eea. Hinges ECBB1100 4.5" x 4.5" Eea. Spring hinges 1250 4.5" x 4.5"	652 Hager 652 Hager		С	813 . 549 . 1900
	1 ea. Keyed cylinder 3901 626 Hager 1 ea. Electric strike Genesis 9500 2005M3 x 2006M 630 HES	Each to have: 4 ea. Hinges EC1100 4.5" x 4.5" 652 Ha	2	tea. Flushbolts 282D (18" extended top rod) ea. Entry lock 3553	626 Hager 626 Hager			INFO@BAKERBARRIOS.COM
	1 ea. Proximity reader 2920 630 Hager 1 ea. Door closer 5200 689 Hager	1 ea. Passage latch 3510 4.5 x 4.5 626 Ha 1 ea. Wall stop 236W 630 Ha	Hager 1	ea. Dummy lever 3527 ea. Wall stop 232W	626 Hager 630 Hager			BAKERBARRIOS.COM
\dashv	1 ea. Floor stop 241F 626 Hager 1 ea. Threshold 436S 36" MIL Hager	3 ea. Door silencers 307D gray Ha	Hager 1	ea. Overhead stop 6016 ea. Door viewer 1756	630 Hager 626 Hager		L-	Baker Barrios
	1 ea. Smoke seal 736S 19' charcoal Hager Heading 9, Hardware Set 10	Heading 16, Hardware Set 17 Single exterior restroom doors Mk. 1003, 1004	1	ea. Threshold 436S 72" ea. Smoke seal 726S 22'	MIL Hager charcoal Hager			Daker Darrius AA0002981 + LC26000427
	Interior single typical stairs Mk. S101, S102, S101B, S101C, S102B, S201, S202, S301, S302, S401,	Each: 3'0" x 8'0" x 1-3/4"	·	Heading 27, Hardware Set 28	-			
3	S402, S501, S502, S601, S602, S701, S702, S801, S802, S901, S902, S1001, S1002	Each to have: 4 ea. Hinges ECBB1101 4.5" x 4.5" 630 Ha	_	3-1 bathroom doors 3-2 bedroom doors			В	THE SKYVIEW
	Each: 3'0" x 8'0" x 1-3/4" Each to have:	1 ea. Privacy latch 3540 626 Ha 1 ea. Deadbolt 3115 626 Ha	Hager	Each leaf: 2'10" x 8'0" x 1-3/4"				AMENITY/PARKING
	Each to have: 4 ea. Hinges ECBB1100 4.5" x 4.5" 652 Hager 1 ea. Panic device 4701-F RIM 47BE passage trim 630 Hager	1 ea. Door closer 5200 689 Ha	Hager 4	ea. Hinges by prehung door manufacturer ea. Privacy latch 3640	626 Hager			400 CLEVELAND, LLC.
_	1 ea. Door closer 5200 689 Hager	1 ea. Wall stop 236W 630 Ha 1 ea. Threshold 413S 36" MIL Ha 1 ea. Dear sweep 750SN 36" MIL Ha	Hager 1	ea. Baseboard stop 211	626 Hager		\vdash	400 CLEVELAND STREET CLEARWATER, FLORIDA 33755
	1 ea. Threshold 436S 36" MIL Hager	1 ea. Door sweep 750SN 36" MIL Ha 1 set Weatherstrip 891SV 1/36" x 2/96" MIL Ha 1 ea. Pain drip 810S 40" MIL Ha	Hager U	Use two BL6212 hinge pin stops where door does not swing against wall.				
	1 ea. Smoke seal 736S 19' charcoal Hager	1 ea. Rain drip 810S 40" MIL Ha	⊓ager					
							Α	HADDWADE CCHEDITIE
								HARDWARE SCHEDULE
	A1 HARDWARE SCHEDULE							PROJECT NO.: 130270.00 G402
	-		7		0	11 12	1.1	

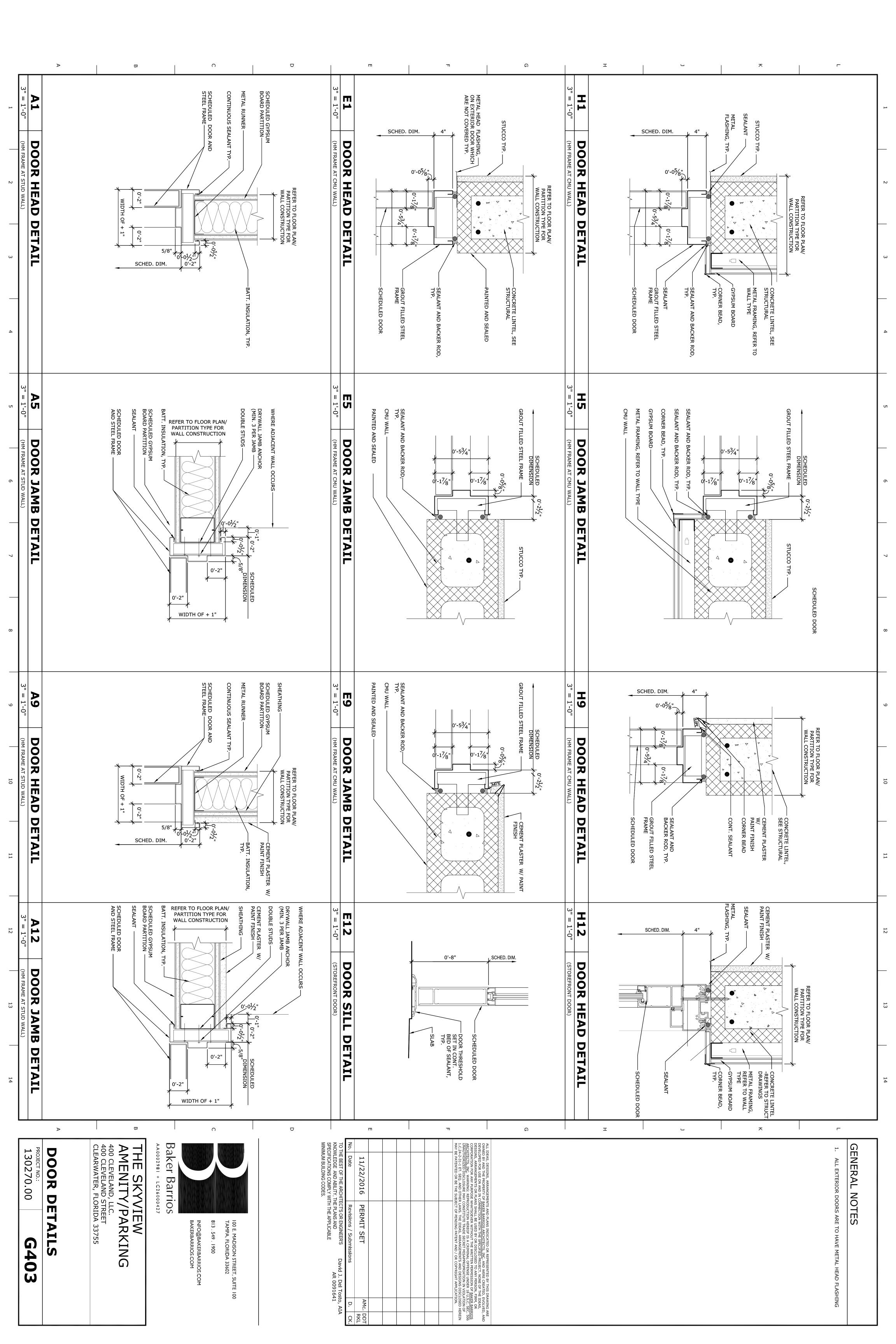
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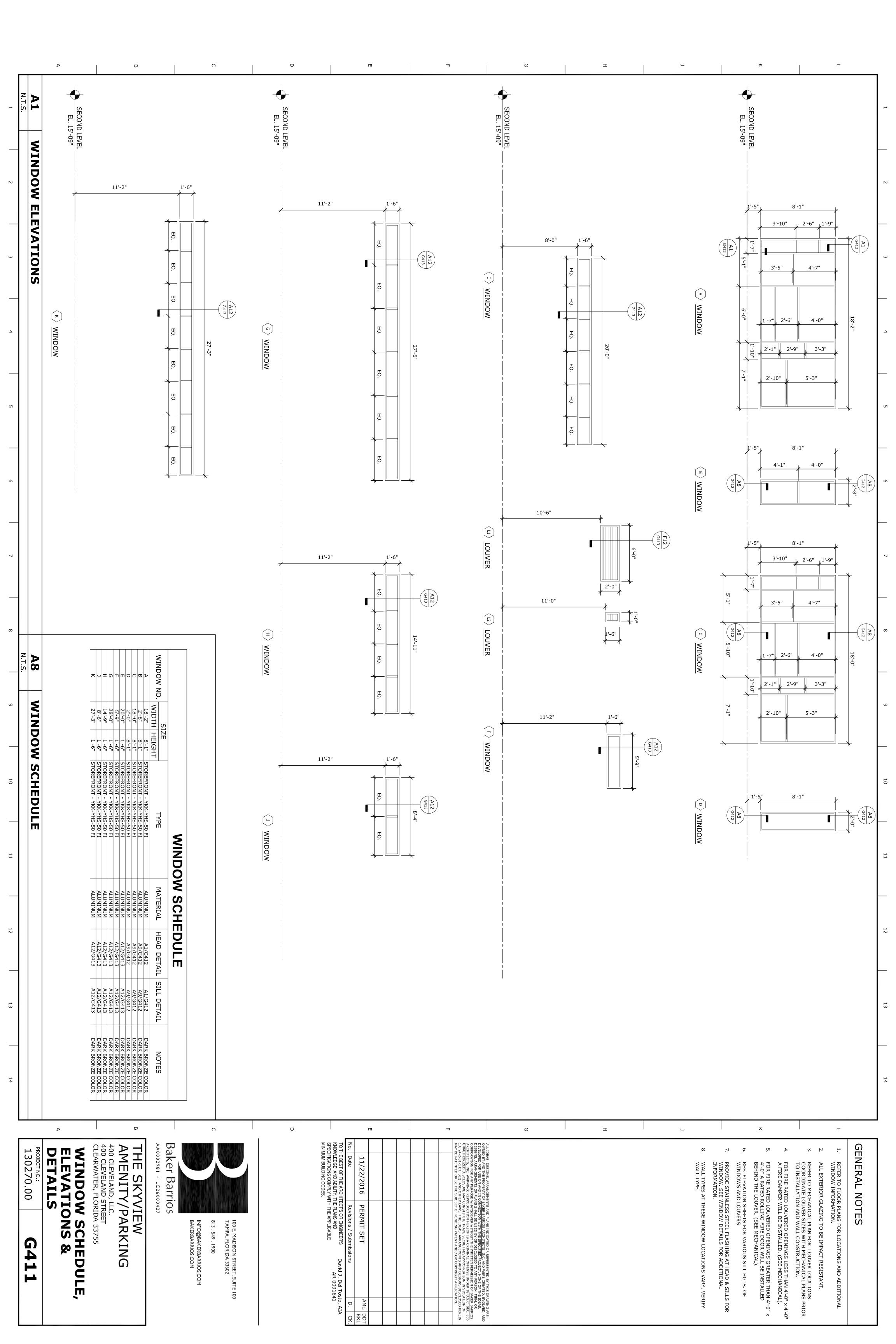
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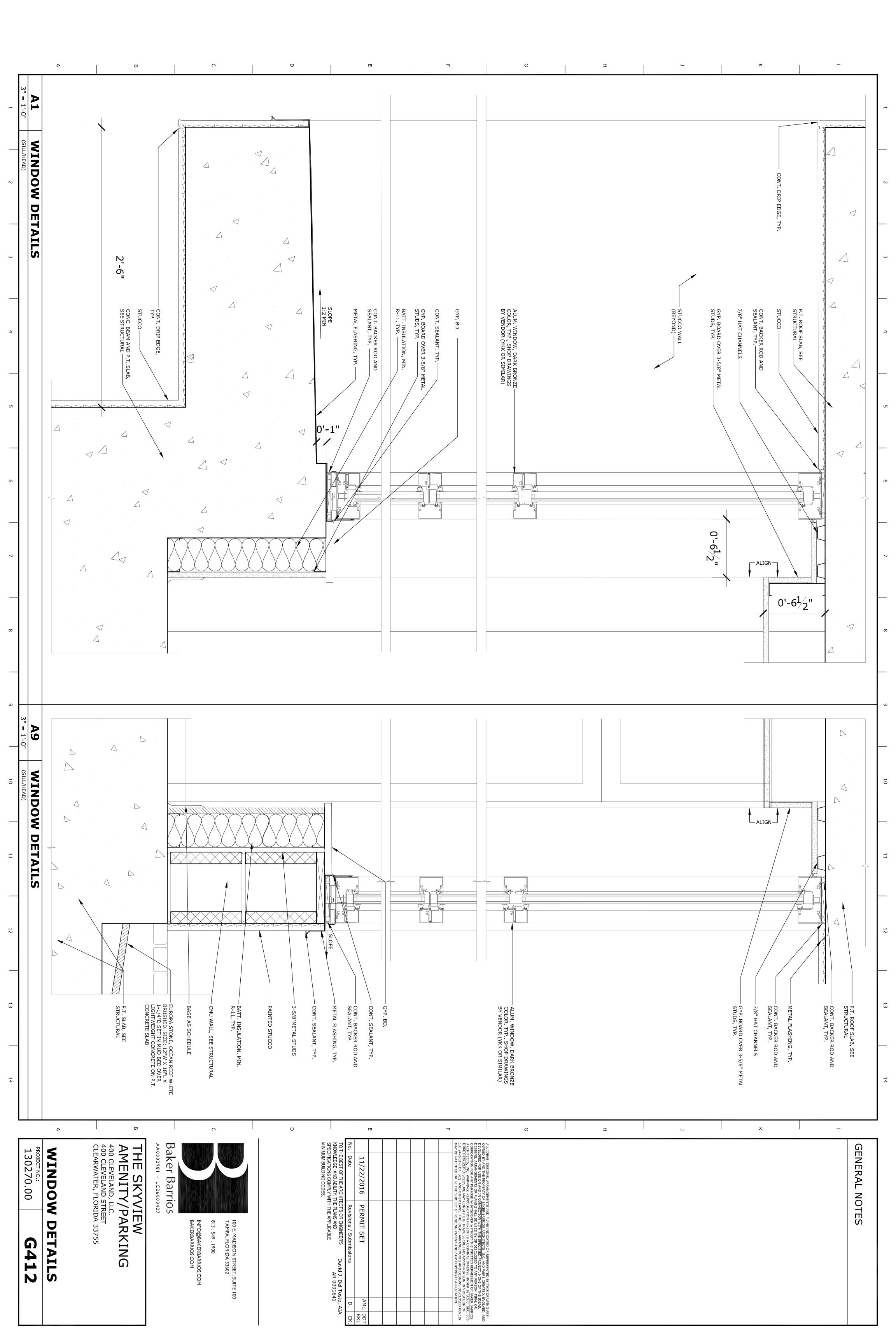
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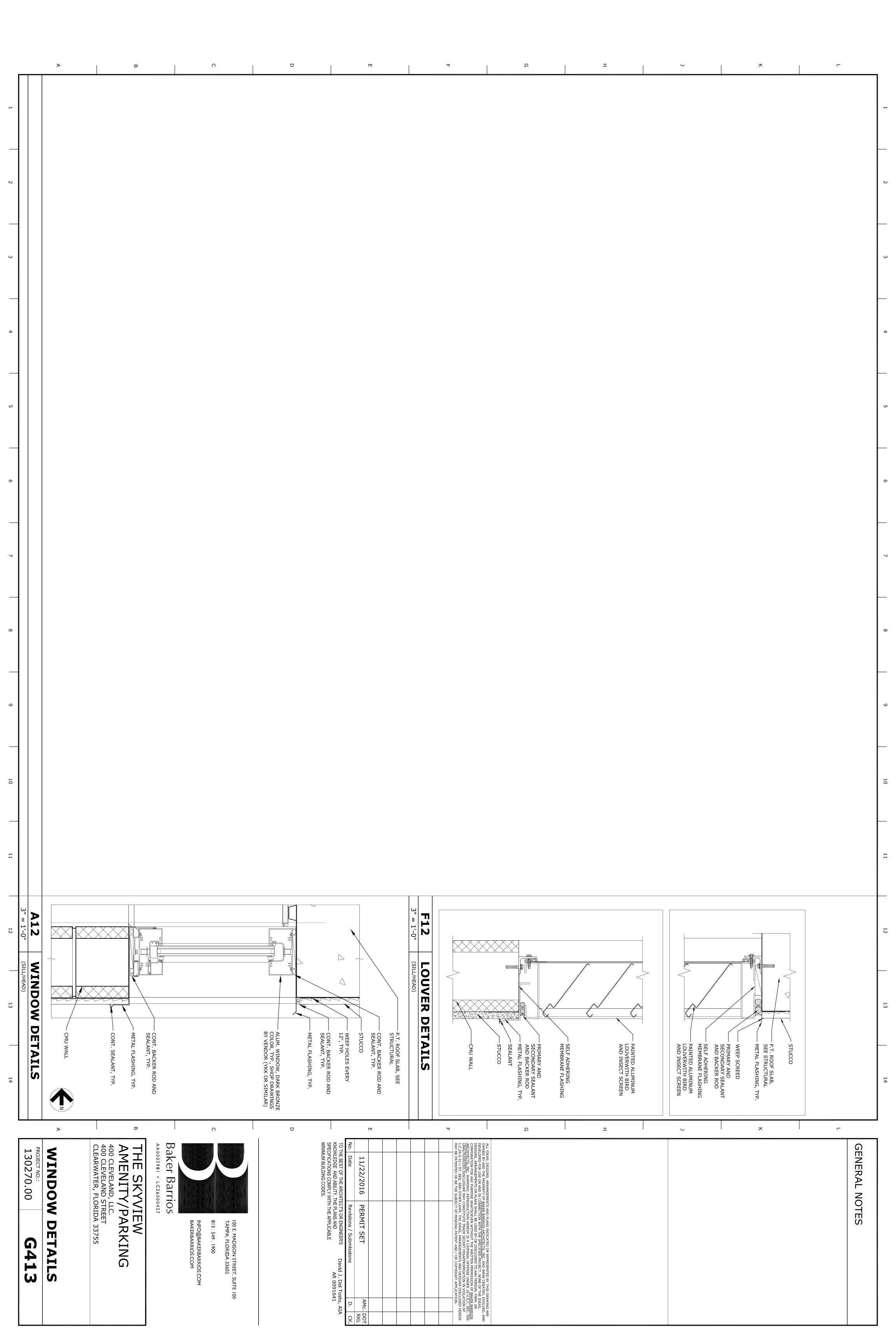
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	11/22/2016	PERMIT SET	AMc.	DDT RKL
No.	Date	Revisions / Submissions	D.	CK.









STRUCTURAL NOTES

GENERAL NOTES: THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND OTHER CONSTRUCTIONS DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, SPECIFICATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS

THE OTHER CONSTRUCTION DOCUMENTS BY THE CONTRACTOR. ANY DISCREPANCIES RELATED TO THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF B&W STRUCTURAL DESIGNS, LLC. (BW) BEFORE PROCEEDING WITH THE AFFECTED PORTION OF

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER CONSTRUCTION WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. IS COMPLETED. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE PROPER PROCEDURE AND SEQUENCE OF CONSTRUCTION TO INSURE THE SAFETY OF THE BUILDING, ITS COMPONENTS AND PERSONNEL ON SITE. THIS INCLUDES TEMPORARY SUPPORT OF STRUCTURE DURING CONSTRUCTION WHICH MAY INCLUDE, BUT IS NOT LIMITED TO, TEMPORARY SHORING, BRACING AND TIE-DOWNS.

DESIGN LOADS: THE STRUCTURAL SYSTEMS FOR THIS BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2010 EDITION. THE FOLLOWING SUPERIMPOSED LOADS WERE UTILIZED IN THE DESIGN:

ROOF:			
	LIVE LOAD	20 F	SF
	DEAD LOAD	25 F	SF
LIVING:			
	LIVE LOAD	40 F	SF
	DEAD LOAD	20 F	SF
PUBLIC ARE	AS:		
	LIVE LOAD	100 P	SF
	DEAD LOAD	20 F	'SF
STAIRWAYS:			
	LIVE LOAD	100 P	SF
	DEAD LOAD	10 P	SF
PARKING:			
	LIVE LOAD	50 F	SF
	DEAD LOAD	10 P	SF

BASIC WIND SPEED: EXPOSURE:

GCpi = +/- 0.18 (ENCLOSED ENVELOPE) INTERNAL PRESSURE: Kz, WIND DIRECTIONAL FACTOR: 0.85 LOAD FACTOR (ALLOWABLE) 0.6

COMPONENTS AND CLADDING: SHALL BE DESIGNED FOR WIND PRESSURES INDICATED IN CHART ON S100

THIS BUILDING IS LOCATED IN A WIND BORNE REGION AND CLADDING AND PRESSURES WERE CALCULATED USING THE INTERNAL PRESSURE OF AN ENCLOSED BUILDING. WIND PRESSURES AS A RESULT OF A BREECHED OPENING WERE NOT STUDIED. SEE "EXTERIOR WNDOW, LOUVER AND DOOR SYSTEMS" NOTE ON THIS SHEET FOR FURTHER INFORMATION.

SNOW LOADS AND EARTHQUAKE LOADS WERE NOT CONSIDERED BASED ON FBC 2014 PREFACE SCOPE: "CODE REQUIREMENTS THAT ADDRESS SNOW LOADS AND EARTHQUAKE LOADS ARE PERVASIVE; THEY ARE LEFT IN PLACE BUT SHOULD NOT BE UTILIZED OR ENFORCED BECAUSE FLORIDA HAS NO SNOW LOADS OR EARTHQUAKE THREAT."

SPECIAL INSPECTIONS: THIS BUILDING IS CLASSIFIED AS A THRESHOLD BUILDING PER FLORIDA STATUTE Ch 553. SPECIAL INSPECTIONS OF THE CONSTRUCTION ARE REQUIRED IN ACCORDANCE WITH FLORIDA STATUTE Ch 553 AND THE FLORIDA BUILDING CODE, SECTIONS 105.12 AND 105.13. CONSTRUCTION INSPECTIONS SHALL BE IN ACCORDANCE WITH THE SPECIAL INSPECTOR GUIDELINES AND STRUCTURAL INSPECTION PLAN PREPARED BY B&W

GENERAL CONTRACTOR MUST HAVE HIS AUTHORIZED REPRESENTATIVE ACCOMPANY THE SPECIAL INSPECTOR'S FIELD INSPECTOR DURING THE ENTIRE SITE VISIT. THIS PERSON MUST HAVE THE AUTHORITY TO DIRECT CONTRACTOR'S PERSONNEL IN ORDER TO CORRECT DEFICIENCIES.

SHOP DRAWNGS: SHOP DRAWNGS WILL BE REVIEWED BY B&W FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.

SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING NUMBER OF PRINTS. ONE SET OF PRINTS WILL BE RETAINED BY B&W, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND ONE BY THE CONTRACTOR. IN ADDITION, B&W REQUIRES ONE MORE SET OF PRINTS FOR THEIR FIELD USE OF THE FOLLOWING: POST TENSION SYSTEM DRAWINGS. SIGNED AND SEALED SHORING AND RESHORING DRAWINGS. AND PRE-ENGINEERED STRUCTURAL SYSTEM DRAWINGS. CONTRACTOR SHALL MAKE ADDITIONAL PRINTS FROM THE HIS SET OF REVIEWED PRINTS AS REQUIRED FOR HIS DISTRIBUTION.

SHOP DRAWINGS SHALL BE REVIEWED AND SIGNED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW AND SIGNATURE WILL BE RETURNED NOT REVIEWED.

SHOP DRAWINGS WHICH ARE REQUIRED TO BE REVIEWED FOR MORE THAN ONE (1) TIME, FOR REASONS OTHER THAN A CHANGE IN SCOPE OF WORK, SHALL CONSTITUTE ADDITIONAL ENVIRONMENT. TAPE UTILIZED FOR SHEATHING CONNECTIONS AND REPAIR SHALL BE SERVICES BY B&W AND THE COSTS ASSOCIATED TO THESE ADDITIONAL SERVICES SHALL BE POLYETHYLENE ADHESIVE TAPE IN A DOUBLE LAYER. AT THE CONTRACTOR'S EXPENSE.

IN ALL INSTANCES THE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF CONFLICT WITH THE SHOP DRAWINGS UNLESS SPECIFIED OTHERWISE IN WRITING BY B&W

FOR PRE-ENGINEERED STRUCTURAL SYSTEMS, THE COMPLETE STRUCTURAL SYSTEM SHALL BE DESIGNED AND SIGNED AND SEALED BY THE SYSTEM MANUFACTURER'S OR SUPPLIER'S SPECIALTY ENGINEER. THE ENGINEER SHALL BE LICENSED IN THE STATE OF FLORIDA. THE B&W PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW ALL DETAILS OF TENDON SPECIALTY ENGINEER IS THE DELEGATED ENGINEER AND THE ENGINEER'S RESPONSIBILITY IS SYSTEM, SUPPORT SYSTEM AND TENDON LAYOUT. DRAWINGS SHOULD INDICATE SLAB SET FORTH IN 61G15 OF THE FLORIDA ADMINISTRATIVE CODE. THE COMPLETE SYSTEM SHALL CONTAIN FRAMING SPECIFIED IN SPECIFIC B&W'S STRUCTURAL NOTES. ALL PORTIONS OF THE SHOP DRAWING SUBMITTAL SHALL BE SIGNED AND SEALED, BY ONE ENGINEER ONLY, IN ACCORDANCE WITH 61G15-30.006, THIS INCLUDES. BUT NOT LIMITED TO. PROVIDE SUFFICIENT AMOUNT OF CABLE TO DEVELOP THE FINAL EFFECTIVE FORCE FRAMING LAYOUT DRAWINGS INDICATING CONNECTIONS AND BRACING AND ENGINEERED COMPONENT DRAWINGS.

THE FOLLOWING REQUIRE SHOP DRAWING SUBMITTAL:

CONCRETE MIX DESIGN MASONRY GROUT MIX DESIGN CONCRETE MASONRY UNITS CONCRETE REINFORCING STEEL POST-TENSIONED REINFORCING EPOXY ANCHOR MATERIAL WEDGE ANCHORS

3000 psi - SLABS-ON-GRADE

FOUNDATION DESIGN: FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF ON WELL COMPACTED FILL. BEFORE CONSTRUCTION COMMENCES, THE SOIL BEARING PRESSURE, SOIL CONDITIONS, SOIL COMPACTION REQUIREMENTS AND SOIL SETTLEMENTS SHALL BE VERIFIED AND A WRITTEN REPORT PREPARED BY A LICENSED A QUALIFIED FIELD SUPERINTENDENT FROM THE POST-TENSION SUPPLIER'S STAFF SHALL GEOTECHNICAL ENGINEER.

FOUNDATIONS: SITE PREPARATION AND FOUNDATION INSTALLATION PROCEDURES SHALL COMPLY WITH FOLLOWING REPORT AND ADDENDUMS INCLUDING THOSE ISSUED THEREAFTER: PROJECT No: 0830,1400487 PREPARED BY: UNIVERSAL ENGINEERING SERVICES TITLED: GEOTECHNICAL EXPLORATION

CONCRETE: CONCRETE SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

5000 psi - COLUMNS, SHEARWALLS AND SHEARWALL BEAMS 5000 psi - (0.40 W/C RATIO) POST TENSION SLAB 4000 psi - FOUNDATIONS AND REMAINING STRUCTURAL CONCRETE. SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW ALL CONDITIONS, ELEVATIONS, AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD AND WITH PRIOR TO USE. EACH PROPORTIONED MIX SHALL BE IDENTIFIED BY A UNIQUE MIX NUMBER. MIX SHALL MEET THE REQUIREMENTS OF ASTM C 33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM C 94 FOR MEASURING, MIXING, TRANSPORTING, ETC.

ALL CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING

CONCRETE MIX DESIGNS SUBMITTALS SHALL INCLUDE TESTED STRENGTH STATISTICAL BACKUP DATA AS PER CHAPTER 5 OF ACI 318 AND A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME MIXING WATER IS ADDED UNTIL THE CONCRETE IS PLACED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1 1/2) HOURS. IF FOR ANY REASON THERE IS A DELAY AND TIME EXCEEDS THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NON-COMPLIANCE WITH THE

ADMIXTURES CONTAINING CALCIUM CHLORIDES SHALL NOT BE UTILIZED. OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF B&W

ALL SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND WITH FUGITIVE DYE IN ACCORDANCE WITH ASTM C309, TYPE 1-D. THE COMPOUND SHOULD BE APPLIED AS SOON AS CONCRETE FINISH WORK IS COMPLETE. ALL BROKEN AND SCRATCHED AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.

CONCRETE TESTING: AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING CONCRETE TESTING FOR STRUCTURAL CONCRETE: SLUMP TESTING IN ACCORDANCE WITH ASTM C 143. SLUMP RANGE SHALL BE 4 TO 6 INCHES. COMPRESSIVE TEST SPECIMENS IN ACCORDANCE WITH ASTM C 31. ONE (1) SET OF FOUR (4) OR FIVE (5) CYLINDERS AS REQUIRED FOR EACH COMPRESSIVE STRENGTH TEST. ONE (1) SET SHALL BE MADE FOR EACH CLASS OF CONCRETE, EACH 50 CUBIC YARDS OR FRACTION THEREOF AND EACH 5000 SQUARE FEET OF SURFACE AREA PLACED PER DAY. COMPRESSIVE STRENGTH TEST IN ACCORDANCE WITH C 39. REQUIRED CYLINDER QUANTITIES AND TEST AGE:

1 AT 2 OR 3 DAYS (CONTRACTOR'S DISCRETION) 1 AT 7 DAYS 2 AT 28 DAYS

> FOR ALL OTHER CONCRETE 1 AT 7 DAYS 2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER FOR ALL CONCRETE TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER. IF 28 DAY STRENGTH IS ACHIEVED FOR BOTH 28 DAY CYLINDERS THEN THE RESERVE CYLINDER MAY BE DISCARDED.

FORM WORK AND SHORING FOR CONCRETE: DESIGN, ERECTION AND REMOVAL SHALL BE IN ACCORDANCE WITH ACI STANDARDS 301 AND 347. NO FORMWORK OR SHORING SHALL BE REMOVED UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF 28-DAY DESIGN STRENGTH,

SHORING AND RESHORING DRAWINGS SHALL BE PREPARED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER. SHORING INSPECTIONS SHALL BE PERFORMED BY THE SHORING ENGINEER AS SPECIFIED IN THE FLORIDA BUILDING CODE.

<u>POST TENSIONED SLABS:</u> THE POST TENSIONING SYSTEM SHALL BE MANUFACTURED, TRANSPORTED AND INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI), POST TENSIONING INSTITUTE (PTI), AND THE CONSTRUCTION DOCUMENTS.

UNBONDED POST TENSIONED TENDONS SHALL BE GRADE 270, 1/2 INCH NOMINAL DIAMETER CONFORMING TO ASTM A 416. NO SUBSTITUTIONS WILL BE PERMITTED.

ANCHORAGES FOR UNBONDED TENDONS SHALL DEVELOP AT LEAST 95% OF THE ACTUAL ULTIMATE STRENGTH OF THE PRESTRESSING STEEL WITHOUT EXCEEDING ANTICIPATED SET.

TENDON COATING MATERIAL SHALL PROVIDE CORROSION PROTECTION FOR THE PRESTRESSING STEEL. PROVIDE LUBRICATION BETWEEN THE STRAND AND SHEATHING. LUBRICATION SHALL BE CHEMICALLY STABLE AND NON-REACTIVE WITH PRESTRESSING STEEL, THE SHEATHING, AND THE CONCRETE.

SHEATHING SHALL HAVE SUFFICIENT STRENGTH TO WITHSTAND UNREPAIRABLE DAMAGE DURING FABRICATION, TRANSPORT, INSTALLATION, CONCRETE PLACEMENT AND TENSIONING. THE SHEATHING SHALL BE CONTINUOUS AND WATERTIGHT OVER ENTIRE LENGTH OF THE

ALL COMPONENTS OF THE POST TENSIONING SYSTEM SHALL HAVE A CORROSION PROTECTION SYSTEM WHICH IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE POST TENSIONING INSTITUTE (PTI) FOR TENDONS AND ANCHORAGES USED IN A CORROSIVE

MATERIAL SHALL BE SUPPLIED BY FIRMS WHICH ARE A MEMBER OF PTI. THE FIRM SHALL HAVE LOCAL REPRESENTATION AND BE STAFFED WITH A PROFESSIONAL STRUCTURAL ENGINEER HAVING FIVE YEARS EXPERIENCE IN THE DESIGN AND CONSTRUCTION OF POST TENSIONED STRUCTURES AND REGISTERED IN THE STATE OF FLORIDA.

SHOP DRAWINGS FOR THE POST TENSION SYSTEM SHALL BE SUBMITTED AND APPROVED BY

THICKNESSES, SLOPES, STEPS AND OPENINGS. SUPPLIER SHALL DETERMINE ALL CABLE LOSSES IN ACCORDANCE WITH ACI 318 AND SHALL

INDICATED ON THE PLANS. CABLE LOSS CALCULATIONS SHALL BE SUBMITTED AND THE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AS TO LOSS CALCULATIONS. MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL FEATURES WHICH ARE TO BE SUPPORTED BY OR GO THROUGH CONCRETE SLABS SHOULD HAVE CONNECTION INSERTS AND CHASES CAST INTO THE SLAB WHENEVER POSSIBLE. IF FASTENERS ARE TO BE USED

FOR CONNECTIONS AFTER THE SLAB IS PLACED THE CONTRACTOR IS RESPONSIBLE TO

TO INSURE THAT TENDONS AND REINFORCING ARE NOT DAMAGED OR CUT.

COORDINATE LOCATION OF THE TENDONS AND REINFORCING AND SIZE OF THE FASTENERS

INSTALLATION OF MILD REINFORCING AND POST TENSION SYSTEM SHALL BE PERFORMED BY THE SAME SUBCONTRACTOR. THIS SUBCONTRACTOR SHALL HAVE LOCAL EXPERIENCE IN POST TENSIONING WORK AND SHALL HAVE SUCCESSFULLY COMPLETED A MINIMUM OF TWO PROJECTS OF SIMILAR SIZE AND SCOPE.

PROVIDE JOB-SITE INSTRUCTION OF THE PT PLACING SUBCONTRACTOR'S PERSONNEL AS TO PROPER INSTALLATION AND STRESSING OF THE POST TENSIONING SYSTEM.

TENDONS SHALL BE LOCATED ACCORDING TO THE PROFILES INDICATED ON THE PLANS. TENDONS SHALL HAVE ADEQUATE SUPPORT TO HOLD THEIR DESIGN POSITION DURING CONCRETE PLACEMENT. TENDON HEIGHT SHALL NOT VARY MORE THAN 1/8 INCH FROM SPECIFIED POSITION. TENDONS HAVE PRIORITY OVER REINFORCING BARS WHERE A CONFLICT EXISTS. CONTRACTOR SHALL COORDINATE WITH THE SUPPLIERS AND PLACERS FOR THE DETAILING AND PLACEMENT OF THE TENDONS AND REINFORCING BARS.

FOR SWEEPING TENDONS AT HIGH AND LOW POINTS WHERE CONCRETE COVER DOES NOT ALLOW FOR RESTRAINING HAIRPINS, TENDONS MUST BE STRAIGHT BETWEEN HAIRPINS ON EACH SIDE OF MINIMUM CONCRETE COVER AREA. IF FOUNDATIONS DO NOT ALLOW FOR THIS. CONTACT B&W FOR RECOMMENDATIONS.

PRIOR TO STRESSING, THE CONCRETE STRENGTH SHALL ACHIEVE A MINIMUM OF 2/3 OF THE 28 DAY STRENGTH OR THE MINIMUM REQUIRED BY THE POST TENSION SUPPLIER (WHICHEVER IS GREATER). STRESSING OF THE TENDONS SHALL COMMENCE WITHIN 24 HOURS OF ACHIEVING THE MINIMUM STRENGTH INDICATED. ALL SLAB CONCRETE SHALL REMAINED SHORED UNTIL THE CONCRETE IS STRESSED, U.N.O. SPECIAL SHORING REQUIREMENTS MAY GOVERN AS RECOMMENDED BY THE SHORING DRAWINGS OR THE ENGINEER.

STRESSING RECORDS OF ALL STRESSING ACTIVITIES SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY AND PROMPTLY SUBMITTED TO B&W AND THE POST TENSION (PT) SUPPLIER. STRESSING ACTIVITY INCLUDES, BUT IS NOT LIMITED TO, JACKING FORCES, THEORETICAL AND MEASURED ELONGATIONS, LIFTOFFS AND ATTEMPTED LIFTOFFS, SLAB DAMAGE, ETC. AN ENGINEER FROM THE PT SUPPLIER SHALL REVIEW ALL STRESSING RECORDS FOR ELONGATION AND DEVIATIONS FROM THE PT SHOP DRAWINGS IN ACCORDANCE WITH ACI 318. A LETTER ADDRESSING DEVIATIONS AND RECOMMENDATIONS FROM THE SUPPLIER AND A LETTER OF ACCEPTANCE FROM B&W, LLC MUST BE OBTAINED PRIOR TO REMOVAL OF EXCESS TENDON ENDS. EXCESS TENDON END REMOVAL SHALL BE ACCOMPLISHED BY MECHANICAL DEVICE. HEAT TORCH CUTTING IS NOT ALLOWED.

AFTER EXCESS TENDON END REMOVAL, TENDON ANCHORAGE HARDWARE SHALL BE COATED BY THE CONTRACTOR WITH A CORROSION PREVENTATIVE MATERIAL. DO NOT COAT CONCRETE IN ANCHOR POCKET. ANCHOR POCKET SHALL BE DRY-PACKED WITH A NON-SHRINK, NON-METALLIC GROUT IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. GROUT PRODUCT TO BE APPROVED BY B&W PRIOR TO APPLICATION.

REINFORCING STEEL: REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60 DEFORMED BARS. FREE OF RUST SCALE, DIRT AND OIL AND PLACED IN ACCORDANCE WITH ACI STANDARDS. SUBMIT REINFORCING SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. MECHANICAL COUPLERS SHALL MEET ACI 318 FOR TENSION SPLICE REQUIREMENTS.

CONCRETE COVER REQUIREMENTS:

3" BOTTOM AND SIDES, 2" TOP. GRADE BEAMS: 3" BOTTOM, 2" SIDES AND TOP. 3" BOTTOM, 2" SIDES AND TOP. PILE CAPS: INTERIOR SLABS: $\frac{3}{4}$ " TOP AND BOTTOM. EXTERIOR SLABS 1-1/2" TOP AND BOTTOM. WALLS 1-1/2" SIDE. COLUMNS 1-1/2" TO TIES.

EPOXY COATED REINFORCING STEEL: ALL EXTERIOR EXPOSED (NOT WATERPROOFED) SLAB EDGE REINFORCING SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A 775.

ALTERNATE: GALVANIZED REINFORCING STEEL: AS AN ALTERNATE TO EPOXY COATING, THE REINFORCING STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 767.

WELDED WIRE FABRIC: WELDED WIRE FABRIC (W.W.F.) SHALL BE ASTM A 185, FREE OF RUST SCALE, DIRT AND OIL AND PLACED IN ACCORDANCE WITH THESE DRAWINGS.

SYNTHETIC FIBER REINFORCING: SYNTHETIC FIBER REINFORCING SHALL BE STRUX 90/40 MANUFACTURED BY GRACE CONSTRUCTION PRODUCTS, INC. OR ENGINEERED APPROVED SUBSTITUTION WITH A DOSAGE RATE OF 3 LB/CU. YD. ONLY TO BE USED WHERE INDICATED

PENETRATIONS: NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OR SLABS OTHER THAN THOSE LOCATED ON THESE DRAWNGS. IF ADDITIONAL PENETRATIONS ARE NECESSARY CONTACT B&W FOR RECOMMENDATIONS.

ROUND SLEEVES AND CONDUITS IN CONCRETE: ROUND SLEEVES AND CONDUITS IN CONCRETE SHALL HAVE A MINIMUM SPACING OF THREE DIAMETERS CENTER-TO-CENTER OF THE LARGER DIAMETER OR 6 INCHES CLEAR WHICH EVER IS GREATER. CONDUITS EMBEDDED IN CONCRETE SLAB SHALL BE NO LARGER THAN 1/3 SLAB THICKNESS AND PLACED IN THE MIDDLE 1/3 DEPTH OF SLAB. ANY CONDITIONS NOT MEETING THE ABOVE MUST BE REVIEWED BY B&W. LLC AND MAY REQUIRE ANALYSIS AND RECOMMENDATIONS AS A CHANGE ORDER WHICH MAY INCLUDE ENGINEERING CHARGES.

GENERAL CONTRACTOR SHALL SUBMIT A PROPOSED CONDUIT LAYOUT FOR CONCRETE SLABS TO B&W FOR REVIEW AT LEAST TWO WEEKS PRIOR TO THE SLAB POUR.

TENDON AND REINFORCING PLACEMENT SHALL HAVE PRIORITY OVER CONDUITS EMBEDDED IN SLAB. CONDUITS SHALL HAVE ITS OWN SUPPORT SYSTEM AND SHALL NOT BE TIED TO

CONSTRUCTION JOINTS: ANY DEVIATION OR ADDITION OF CONSTRUCTION JOINTS (CJ) FROM THAT SHOWN ON THE PLANS MUST BE REVIEWED BY B&W. NEW LOCATIONS ARE ACCEPTABLE ONLY AS A CHANGE ORDER, WHICH WILL INCLUDE ENGINEERING CHARGES, FOR REDESIGN OF THE STRUCTURE, SHORING, ETC.

MASONRY WALLS: MASONRY UNITS SHALL MEET ASTM C 90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 PSI ON THE NET AREA (f'm = 1500 psi). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C 270.

GROUT FOR FILL CELLS SHALL MEET ASTM C 476 AND ACHIEVE A 2000 PSI MINIMUM COMPRESSIVE STRENGTH. GROUT DESIGN MIX SHALL BE SUBMITTED FOR REVIEW. USE MORTAR AND SPECIAL MASONRY UNITS AS NECESSARY TO CONFINE GROUT TO REQUIRED FILL CELLS WITHIN WALL. CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS OVER 2 FEET WIDE, AND AS INDICATED ON THE PLANS. LAP ALL VERTICAL REINFORCING ABOVE WITH EITHER VERTICAL REINFORCING FROM BELOW OR HOOKED DOWELS IN FOOTINGS AND OTHER CONCRETE ELEMENTS. PROVIDE 48 BAR DIAMETER LAP SPLICES.

MASONRY SHALL BE PLACED IN RUNNING BOND PATTERN INCLUDING AT CORNERS AND INTERSECTIONS. PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL LADDER TYPE OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK

PROVIDE VERTICAL MASONRY CONTROL JOINTS IN MASONRY WALLS AT LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AT INTERVALS NOT TO EXCEED WALL LENGTH/HEIGHT RATIO OF 2 TO 1 AND 7'-0" FROM BUILDING CORNER. SEE MASONRY CONTROL JOINT DETAIL. SEE ARCHITECTURAL DOCUMENTS FOR SEALANT REQUIREMENTS. PRIOR TO SUBMISSION OF MASONRY VERTICAL REINFORCEMENT SHOP DRAWINGS AND CONCRETE POUR OF FOOTINGS, CONTRACTOR SHALL SUBMIT A PROPOSED LAYOUT OF MASONRY CONTROL JOINTS FOR REVIEW AND COMMENT BY THE B&W AND THE ARCHITECT.

TIE BEAMS: BEAMS WITH THE PREFIX TB- SHALL BE CONCRETE BEAMS POURED ON TOP OF MASONRY WALLS. PROVIDE CORNER BARS FOR EACH HORIZONTAL REINFORCING BAR AT CORNERS AND INTERSECTIONS. USE METAL LATH OR EXPANDED STEEL CAVITY CAPS TO CONFINE CONCRETE TO TIE BEAM AND STILL ALLOW BOND WITH MASONRY. SOLID METAL CAVITY CAPS OR FELT ARE PROHIBITED.

LINTELS: MASONRY OPENINGS LESS THAN 4 FEET SHALL BE SPANNED WITH 8"X8" PRECAST CONCRETE LINTELS. PRECAST LINTELS MAY SPAN WIDER OPENINGS PROVIDED ADDITIONAL REINFORCING DETAILS ARE INSTALLED IN ACCORDANCE WITH THAT SHOWN ON THESE DRAWINGS. LINTELS SHALL BE MANUFACTURED BY CAST—CRETE OR ENGINEER APPROVED EQUAL. PRECAST LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END, U.N.O.

EPOXY ANCHORING: EPOXY ANCHOR MATERIAL SHALL BE TWO PART EPOXY POLYMER INJECTION SYSTEM. ACCEPTABLE PRODUCTS ARE POWERS FASTENERS PE1000+, SIMPSON Strong-Tie SET, OR HILTI HIT RE 500 EPOXY DOWELING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INSTALLER SHALL BE TRAINED BY A MANUFACTURER'S REPRESENTATIVE. HOLES SHALL BE BRUSHED AND BLOWN OUT WITH HIGH VELOCITY COMPRESSED AIR AND SHALL BE CORRECT DIAMETER AND LENGTH. OVERSIZED DIAMETER HOLES SHALL BE REJECTED AND DISCARDED.

EPOXY ANCHORING SHALL ONLY BE PERFORMED AT THE DIRECTION OF ENGINEER OF RECORD. PREPARATION AND INSTALLATION OF EPOXY ANCHORS SHALL BE OBSERVED BY AN INSPECTOR AND A WRITTEN REPORT FROM SAME SHALL BE SUPPLIED TO THE ENGINEER OF RECORD

WEDGE ANCHORS: WEDGE ANCHORS SHALL BE MANUFACTURED BY HILTI OR POWERS FASTENERS. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

CONCRETE SCREWS: CONCRETE SCREWS SHALL BE MANUFACTURED BY HILTI OR POWERS FASTENERS. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

EXTERIOR WINDOW. LOUVER. AND DOOR SYSTEMS: SHALL BE DESIGNED TO WITHSTAND WIND LOAD REQUIREMENTS AND INCLUDE ALL COMPONENTS NECESSARY TO RESIST LOADS INCLUDING CONNECTIONS TO THE PRIMARY BUILDING STRUCTURE. SHOP DRAWINGS SHOWING THE SYSTEM AND ITS COMPONENTS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE CERTIFIED TESTED AND/OR DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

EXTERIOR GLAZING SHALL BE IMPACT RESISTANT UNLESS SUCH GLAZING IS PROTECTED WITH AN IMPACT RESISTANT COVERING. GLAZING OR COVERING SHALL MEET THE IMPACT RESISTANT REQUIREMENTS OF THE BUILDING CODE.

ALTERNATE TO WATERPROOFING ON BALCONIES AND OTHER EXTERIOR CONCRETE SURFACES INCLUDING STAIRS: IF TOP CONCRETE SURFACES, STAIR VERTICAL SURFACES, AND/OR SLAB EDGES ARE NOT WATERPROOFED, ONE OF THE TWO FOLLOWING OPTIONS ARE

WATER/CEMENT RATIO FOR EXTERIOR CONCRETE SHALL NOT EXCEED 0.40 BY WEIGHT.

EDGE SURFACES & TOP REINFORCING SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A 775.

TOP, STAIR VERTICAL, AND EDGE SURFACES OF CONCRETE SHALL HAVE SURFACES TREATED WITH A CLEAR, NON-FLAMMABLE PENETRATING CONCRETE SEALER OF THI ALKYL-ALKOXY SILANE CLASSIFICATION, SUCH AS SONNEBORN PENETRATING SEALER 20, HYDROZO ENVIROSEAL 20, OR OTHER APPROVED WEATHER RESISTANT SYSTEM. APPLICATION AND SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO VERIFY COMPATIBILITY OF SEALER AND ANY OTHER APPLIED ARCHITECTURAL FINISHES AND COATINGS.

WATER/CEMENT RATIO FOR EXTERIOR CONCRETE SHALL NOT EXCEED 0.40 BY WEIGHT AND SHALL HAVE A CORROSIVE-INHIBITING CONCRETE ADMIXTURE (DCI-S), MANUFACTURED BY GRACE CONSTRUCTION PRODUCTS, INC. DOSAGE RATE SHALL BE 2-1/2 GAL/YD.

		Hommar Wind Opeca	, vaso					0.40		
		Exposure Category =	С	Direct. Fac	tor, Kd =	0.85		Roof Slope	0.00	
		Risk Category =	II							
		COMPONE			ADDING		D PRI		RES (A	
	COME	PONENT LOCATION		Ae = 20 ft.	Ae = 50 ft.		Ae = 10 ft.			Ae = 100 ft.
WALLS		WITHIN "a" ft. FROM CORNERS	47.2	45.1	42.3	40.3	-62.9	-58.8	-53.2	-49.0
WAI		ELSEWHERE	47.2	45.1	42.3	40.3	-51.1	-49.0	-46.3	-44.2
		WITHIN "a" ft. FROM CORNERS	21.0	19.7	17.9	16.6	-130.2	-107.9	-78.3	-55.9
ROOF		WITHIN "a" ft. FROM HIPS & RIDGES	21.0	19.7	17.9	16.6	-86.5	-77.3	-65.2	-55.9
		AT OVERHANGS	\mathbb{X}				-82.2	-80.9	-79.1	-77.8
		AT OVERHANGS WITHIN "a" ft. FROM CORNERS					-130.2	-103.9	-69.1	-42.8
		ELSEWHERE	21.0	19.7	17.9	16.6	-51.6	-50.3	-48.5	-47.2

WIND ANALYSIS PER ASCE 7-10

NOTE: 1) Ae: EFFECTIVE AREA AS DEFINED BY SECTION 1609

2) PRESSURES HAVE BEEN FACTORED FOR THE IMPORTANCE & DIRECTIONALITY FACTORS ABOVE PRESSURES ARE FORFULLY ENCLOSED CONDITION WITH INTERNAL PRESSURE

COEFFICIENT OF +/- 0.18 FOR WIND BORNE REGIONS ONLY (1609.1.2)

GLAZING UP TO 30 FEET SHALL BE IMPACT RESISTANCE FOR LARGE MISSILE AND GLAZING ABOVE 30 FEET SHALL BE IMPACT RESISTANCE FOR SMALL MISSILE

4) MINIMUM WIND PRESSURE SHALL NOT BE LESS THAN +/- 10 PSF 5) THESE WIND LOADS ARE ASD VALUES AS DEFINED BY THE 2014 FLORIDA BUILDING CODE. THE WIND LOADS HAVE BEEN UNFACTORED FOR WORKING STRESS DESIGN (ASD).

	Structural Sheet Index	Structural Coordination: 01.08.2016	Structural Bid Set: 04.15.2016	Foundation Permit Set: 06.21.2016	Permit Review Set: 10.11.2016	Permit Set: 11.22.2016
	100 Series ~ Struct. Notes & Typ. Details					
S100	Structural Notes					
S101	Threshold Notes					
S102	Typical Details					
S103	Typical Details					
	S200 Series ~ Framing Plans	_				
S200	Foundation/ Ground Floor Framing Plan					
S201	2nd Floor Framing Plan					
S202	Low Roof Framing Plan					
S203	Roof / High Roof Framing Plan					
	S300 Series ~ SW & Column Schedules & Details					
S300	Column Schedule and Details					
S301	Shearwall Details					
S302	Shearwall Schedule					
S303	Shearwall Schedule					
S304	Beam Schedule and Details	_	<u> </u>		_	
0.400	S400 Series ~ Miscellaneous Sections					
S400	Miscellaneous Sections					
S401	Miscellaneous Sections					
S402	Not Used					
S403	Miscellaneous Sections					
S404	Miscellaneous Sections					
S405	Miscellaneous Sections					



b&w structural designs, llc. 201 North Franklin Street, Suite 1970

> Tampa, FL 33602 (813) 374-2459 www.structural-designs.com

CERTIFICATE OF AUTHORIZATION NUMBER: 8352 TO THE BEST OF MY KNOWLEDGE AND ABILITY.

THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS

COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES. **JOB NUMBER: 15-128**

ABBREVIATIONS

A.B. = ANCHOR BOLT

ARCH. = ARCHITECT

B.C. = BOTTOM CHORD

C.I.P. = CAST IN PLACE

BAL. = BALANCE

BLDG. = BUILDING

BOTT = BOTTOM

BRG. = BEARING

CL = CENTERLINE

COL. = COLUMN

CTR. = CENTER

DTL. = DETAIL

DN. = DOWN

FT. = FOOT

GA. = GAGE

H.P. = HIGH POINT

I.J. = ISOLATION JOINT

CONC. = CONCRETE

CONT. = CONTINUOUS

CONTR. = CONTRACTOR

CONFIG. = CONFIGURATION

CONSTR. = CONSTRUCTION

CLR. = CLEAR

BM. = BEAM

ALT. = ALTERNATE

 $\mathbf{0} = \mathsf{AT}$

INT. = INTERIOR JT. = JOINTL = ANGLELG. = LONGAPPROX. = APPROXIMATELYL.W. = LONG WAYMFR. = MANUFACTURERARCHT'L. = ARCHITECTURAL MAT'L. = MATERIALMAX. = MAXIMUMM.D. = MID-DEPTHMIN. = MINIMUMMISC. = MISCELLANEOUS M.O. = MASONRY OPENING N.S. = NEAR SIDEN.I.C. = NOT IN CONTRACTC.J. = CONSTRUCTION JOINTN.T.S. = NOT TO SCALEO.C. = ON CENTERO.H. = OPPOSITE HANDCMU = CONCRETE MASONRY UNITOPNG. = OPENINGPART. = PARTITIONPART'L. = PARTIALPL = PLATE

plf = POUNDS PER LINEAR FOOT psf = POUNDS PER SQUARE psi = POUNDS PER SQUARE INCH P.T. = POST TENSION OR

DBL. = DOUBLE PRESSURE TREATED DIA. = DIAMETERREINF. = REINFORCINGDIM. = DIMENSIONREQ'D. = REQUIREDDWG. = DRAWINGREV. = REVISED / REVISIONR.O. = ROUGH OPENINGSCHED. = SCHEDULESECT. = SECTION

EA. = EACHE.E. = EACH ENDE.F. = EACH FACEE.J. = EXPANSION JOINTSIM. = SIMILAREL./ELEV. = ELEVATIONS.J. = CONTRACTION JOINT EQ. = EQUALS.M.S. = SHEET METAL SCREW E.S. = EACH SIDESTD. = STANDARDE.W. = EACH WAYSW = SHEARWALLEXIST. = EXISTINGS.W. = SHORT WAYEXP. = EXPANSIONSTL. = STEELEXT. = EXTERIORSTRUCT. = STRUCTURALFLR. = FLOORT/O = THRU OUTFDN. = FOUNDATION

T.O. = TOP OF ... F.S. = FAR SIDET = TOPTEMP. = TEMPERATUREFTG. = FOOTINGTYP. = TYPICALU.N.O. = UNLESS NOTEDGALV. = GALVANIZEDotherwise G.C. = GENERAL CONTRACTORVERT. = VERTICAL HC = HOLLOW COREw/=WIHHORIZ. = HORIZONTAL WP = WORK POINT

INFO. = INFORMATIONL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF <u>BAKER BARRIOS ARCHITECTS, INC</u>. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, ESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF <u>BAKER BARRIC</u> <u>RCHITECTS, INC</u>. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 50

W.W.F. = WELDED WIRE FABRIC

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S CHRISTOPHER S. WRIGHT, PE KNOWLEDGE AND ABILITY. THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

SI# 1181

100 E. MADISON STREET, SUITE 100

TAMPA, FLORIDA 33602

INFO@BAKERBARRIOS.COM

813.549.1900

PE# 54880

BAKERBARRIOS.COM

Baker Barrios AA0002981 + LC26000427

THE SKYVIEW AMENITY/PARKING

400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755

STRUCTURAL NOTES

S100

PROJECT NO. 130270.00

SPECIAL INSPECTOR GUIDELINES

THE SPECIAL INSPECTOR SHALL OBSERVE THAT THE STRUCTURAL PORTIONS OF THE WORK ARE EXECUTED IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS, EXCEPT WHERE VARIATIONS FROM THESE DOCUMENTS ARE PERMITTED IN WRITING BY THE ARCHITECT/ENGINEER. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS, RECORDED ADDENDA, THE SPECIFICATIONS WITH ALL AMENDMENTS, AND REVIEWED AND APPROVED SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL NOT MAKE DESIGN DECISIONS, DIRECT THE CONTRACTORS WORK, NOR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.

A. QUALIFICATIONS

THE SPECIAL INSPECTOR SHALL BE REGISTERED AS REQUIRED BY CURRENT LEGISLATION. FUTURE REQUIREMENTS, IF ENACTED BY LAW, WILL ALSO BE APPLICABLE TO THIS PLAN. THE SPECIAL INSPECTOR MAY SEND AN EMPLOYEE AS HIS AUTHORIZED REPRESENTATIVE TO THE PROJECT, BUT THAT PERSON SHALL POSSES A MINIMUM OF THREE (3) YEARS VERIFIABLE EXPERIENCE AND KNOWLEDGEABLE IN THE STRUCTURAL SYSTEMS BEING USED AND MUST BE A GRADUATE ENGINEER/ARCHITECT, A REGISTERED A BUILDING INSPECTOR OR A LICENSED GENERAL CONTRACTOR. THE THRESHOLD INSPECTOR SHALL POSSESS A MINIMUM OF FIVE (5) YEARS OF VERIFIABLE EXPERIENCE IN THE STRUCTURAL SYSTEM BEING USED. DOCUMENTATION OF THESE QUALIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD FOR APPROVAL PRIOR TO PERMITTING OF CONSTRUCTION.

B. DUTIES

THE SPECIAL INSPECTOR SHALL MAINTAIN A RECORD OF THE PROGRESS, WORKING CONDITIONS. ANY OBSERVATIONS GIVEN TO THE CONTRACTOR AND ANY DEVIATIONS FROM THE STRUCTURAL COMPONENTS OR THE OVERALL INTENT OF THE OFFICIAL CONTRACT DOCUMENTS. HE IS RESPONSIBLE FOR THOROUGH KNOWLEDGE OF THE SPECIFICATIONS, APPROPRIATE PORTIONS OF THE GOVERNING CODE, AND FOR THE EXERCISE OF GOOD JUDGMENT. THE REPORTS SHALL BE IN WRITING AND SHALL BE MADE OUT PROMPTLY AT THE END OF THE PERIOD COVERED.

THE RECORDS SHALL CONSIST, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- REPORT OF EACH INSPECTION
- A LOG OF JOB SITE AREAS INSPECTED SPECIAL RECORDS (PILE DRIVING/INSTALLATION LOGS, MILL TESTS, CONCRETE
- TESTS. POST-TENSION STRESSING
- RECORD OF PLACING AND CURING CONCRETE
- 5. CHANGES MADE IN THE FIELD DURING A PARTICULAR OBSERVATION 6. MAINTAIN A CORRECTION LIST INDICATING THE AREAS WHERE DISCREPANCIES
- WERE NOTED AND STATUS OF REPAIR.

FOLLOWING:

PHOTOGRAPHS DAILY FIELD REPORTS MAY BE SIGNED BY THE DULY AUTHORIZED REPRESENTATIVE, BUT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL SIGNED AND SEALED BY THE SPECIAL INSPECTOR. IN ADDITION, THE FINAL REPORT IS TO BE SIGNED AND SEALED BY THE SPECIAL INSPECTOR.

C. REPORTING INFORMATION & OBSERVATIONS

SPECIAL INSPECTOR SHALL SEND A COPY OF DAILY INSPECTION REPORTS TO DESIGN ARCHITECT/ENGINEER, OWNER, GENERAL CONTRACTOR, AND OTHERS AS REQUESTED BY THE OWNER. IT IS THE DUTY OF THE SPECIAL INSPECTOR TO NOTIFY THE CONTRACTOR, BUILDING OFFICIAL, ARCHITECT/ENGINEER OF RECORD, AND THE OWNER OF THE

- 1. THE USE OF MATERIALS, EQUIPMENT, OR WORKMANSHIP WHICH DO NOT CONFORM TO THE OFFICIAL CONTRACT DOCUMENTS OR WHICH MAY CAUSE IMPROPER CONSTRUCTION.
- 2. WORK WHICH IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED OFFICIAL CONTRACT DOCUMENTS.
- 3. THE RECOMMENDED REMOVAL OR REPAIR OF FAULTY CONSTRUCTION OR CONSTRUCTION WHICH IS PERFORMED WITHOUT IINSPECTION AND NOT CAPABLE OF BEING INSPECTED OR TESTED IN PLACE
- 4. THE REQUEST FOR INTERPRETATIONS FROM THE ARCHITECT/ENGINEER OF

D. REQUIREMENTS OF THE OWNER

- 1. THE OWNER SHALL ARRANGE FOR ALL NECESSARY CONSTRUCTION RECORDS TO BE FURNISHED TO THE SPECIAL INSPECTOR IN A TIMELY MANNER. SUCH RECORDS SHALL CONSIST OF, BUT MAY NOT BE LIMITED TO; OFFICIAL CONTRACT DOCUMENTS. SOIL DENSITY TEST RECORDS. PILE INSTALLATION LOGS, CONCRETE CYLINDER TEST REPORTS, MILL RECORDS, SHOP DRAWINGS, POST-TENSIONING STRESSING RECORDS, ETC.
- 2. THE OWNER SHALL INSURE THAT THE CONTRACTOR PROVIDES A SHORING AND RESHORING PLANS TO THE BUILDING DEPARTMENT, WHICH ARE SIGNED AND SEALED BY A SPECIALTY SHORING DESIGN ENGINEER REGISTERED IN THE STATE OF FLORIDA. SUCH REGISTERED ENGINEER MAY REPRESENT THE FORM SUPPLIER. THE OWNER SHALL INSURE THE CONTRACTOR HAS THE SPECIALTY SHORING DESIGN ENGINEER OR HIS REPRESENTATIVE ON SITE TO INSPECT THE SHORING FOR CONFORMANCE WITH THE SHORING AND RESHORING PLANS AND THAT THE SPECIALTY SHORING DESIGN ENGINEER SHALL CERTIFY THAT THE SHORING AND RESHORING IS IN CONFORMANCE WITH THE SHORING PLANS PRIOR TO ANY REQUIRED MANDATORY INSPECTIONS BY THE SPECIAL INSPECTOR. CERTIFICATION SHALL BE MADE BY WRITTEN REPORT TO THE SPECIAL INSPECTOR.

E. RESPONSIBILITY

THE SPECIAL INSPECTOR DOES NOT SURROGATE THE BUILDING OFFICIAL'S OR THE ARCHITECT/ENGINEER OF RECORD'S (E.O.R.) RESPONSIBILITIES. FURTHER, IT IS NOT INTENDED THAT THE CONTRACTOR'S CONTRACTUAL OR STATUTORY OBLIGATIONS BE IN ANY WAY RELIEVED OR FOREGONE BY THE PRESENCE OF THE SPECIAL INSPECTOR. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS AND FOR QUALITY CONTROL. ALL INSPECTIONS WILL BE IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIAL INSPECTOR LAW. IT SHALL BE THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO OBSERVE THE PLACEMENT OF STRUCTURAL COMPONENTS ONLY, AND TO REPORT NOTED DEFICIENCIES AND CORRECTIONS TO THE CONCERNED PARTIES. AT THE COMPLETION OF THE STRUCTURAL WORK, THE SPECIAL INSPECTOR SHALL CERTIFY THAT "TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE ABOVE-DESCRIBED CONSTRUCTION OF ALL STRUCTURAL LOAD-BEARING COMPONENTS COMPLIES WITH THE PERMITTED DOCUMENTS, AND THE SHORING AND RESHORING CONFORMS WITH THE SHORING AND RESHORING PLANS SUBMITTED TO THE ENFORCEMENT AGENCY".

F. LIMITATIONS

THE FOLLOWING INSPECTION PLAN IS OUTLINED AS A MINIMUM ONLY, AND MAY BE SUPPLEMENTED BY SPECIAL REQUIREMENTS AS DEEMED NECESSARY DURING THE COURSE OF THE WORK. CONTRACTOR PERFORMANCE AND CAPABILITY MAY ONLY INCREASE THE SPECIAL INSPECTOR INVOLVEMENT IN ANY PROJECT. THIS DOCUMENT WILL OUTLINE THE PLAN ONLY AS WELL AS DELINEATING SPECIFIC SUBMISSION REQUIREMENTS. THE ACTUAL DETAILS OF INSPECTOR CHECKLISTS WILL NOT BE ELABORATED UPON, BUT RATHER A CLEAR DEFINITION OF RESPONSIBILITIES, SCHEDULED VISITS, AND INTENT WILL BE GIVEN. THE SPECIAL INSPECTOR IS TO PROVIDE SERVICES ONLY WITH REGARD TO THE STRUCTURAL FRAME OF THE BUILDING INCLUDING FOUNDATION, PRIMARY AND SECONDARY FRAMING SYSTEMS, PRE-ENGINEERED FRAMING SYSTEMS, AND ALL ITEMS INCLUDED IN THE INSPECTION PLAN. THIS DOES NOT INCLUDE INSPECTION OF ANY SAFETY PROVISIONS AS REQUIRED BY OSHA OR OTHER SAFETY STANDARDS, WHICH APPLY DURING THE CONSTRUCTION PERIOD. NOR DOES IT APPLY TO ELEMENTS SUCH AS GLASS, METAL, OR WOODEN RAILINGS, FIRE PROTECTION, ROOFING, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK OR OTHER ELEMENTS NOT CONTRIBUTING TO THE CAPACITY OF THE STRUCTURAL BUILDING FRAME.

SINCE THE SPECIAL INSPECTOR DOES NOT CERTIFY THAT THE OFFICIAL CONTRACT DOCUMENTS ARE, IN THEMSELVES, IN COMPLIANCE WITH THE CURRENT EDITION OF THE APPLICABLE BUILDING CODES, ALL CERTIFICATIONS ISSUED WILL REFER TO COMPLETED

WORK BEING IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS RATHER THAN THE APPROPRIATE BUILDING CODE.

THE SPECIAL INSPECTOR'S AUTHORIZED REPRESENTATIVE AT THE SITE SHALL NOT BE THE SAME PERSON THAT IS ROUTINELY IN CHARGE OF MAKING CONCRETE CYLINDERS OR OTHERWISE MONITORING THE READY MIX CONCRETE OPERATION.

II. <u>SPECIAL INSPECTOR PLAN</u>

- A. FOLLOWING IS A DESCRIPTION OF THE STRUCTURAL SYSTEM EMPLOYED FOR THIS PROJECT:
- AUGER-CAST PILES, CONCRETE PILE CAPS, CONCRETE AND CONCRETE BEAMS
- 2. GROUND FLOOR: CONCRETE SLAB-ON-GRADE
- POST TENSIONED CONCRETE SLABS, MILD REINFORCED CONCRETE

FRAMING, CONCRETE SHEARWALLS, AND CONCRETE COLUMNS.

- 4. <u>WALLS</u>: REINFORCED MASONRY
- MISCELLANEOUS: PRE-ENGINEERED LIGHT-GAUGE STEEL, PRE-ENGINEERED ALUMINUM FRAMING, PRE-ENGINEERED WOOD TRUSSES AND STRUCTURAL STEEL
- B. STRUCTURAL PORTION OF THE CONSTRUCTION WORK SHALL CONFORM TO THE OFFICIAL CONTRACT DOCUMENTS AS DEFINED IN THE SPECIAL INSPECTOR GUIDELINES.
- STRUCTURAL DRAWINGS, DRAWING SHEETS DESIGNATED AS 'S' SERIES AND 'W' SERIES AND THE APPLICABLE SPECIFICATIONS SHALL GOVERN THE REQUIREMENTS OF THIS WORK.

C. SUBSURFACE AND FOUNDATIONS

1. SOILS INVESTIGATION

ALL THRESHOLD BUILDINGS SHALL HAVE A SOILS INVESTIGATION COMPLETED PRIOR TO THE COMMENCEMENT OF FOUNDATION INSTALLATION. OBTAIN A COPY OF A SOILS REPORT AND/OR TEST BORINGS AS MAY BE APPROPRIATE, SIGNED AND SEALED BY A FLORIDA P.E., AND MAINTAIN SAID COPY IN THE SPECIAL INSPECTOR'S RECORDS. SPECIAL INSPECTOR SHALL CONFIRM THAT NOTES REGARDING FOUNDATION PREPARATION AND INSTALLATION CONTAINED WITHIN SUCH SOILS REPORT AND CONTRACT DOCUMENTS ARE IN AGREEMENT WITH THE CONSTRUCTION.

REVIEW DOCUMENTATION FROM A CERTIFIED TESTING LABORATORY THAT PILING, AS INSTALLED, ARE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. CHECK STEEL REINFORCING ACCORDING TO SECTION II.F.3 PRIOR TO PLACEMENT.

3. BEARING CAPACITY

GEOTECHNICAL ENGINEER SHALL DETERMINE THE BEARING CAPACITY AND SOIL RECOMMENDATIONS. SPECIAL INSPECTOR SHALL OBTAIN COPY OF HIS REPORT SIGNED AND SEALED BY A FLORIDA P.E.

4. BACKFILL AND COMPACTION

A QUALIFIED SOILS CONSULTANT SHALL BE RETAINED TO MONITOR BACKFILL AND COMPACTION OPERATIONS, AND PLACEMENT OF SLAB-ON-GRADE BASES. REPORTS, SIGNED AND SEALED BY A FLORIDA P.E., SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR.

5. PILE CAPS AND/OR FOOTINGS

ALL PILE CAPS AND FOOTINGS WILL BE REVIEWED PRIOR TO PLACEMENT OF CONCRETE TO CONFIRM COMPLIANCE WITH THE STRUCTURAL DOCUMENTS.

6. SPECIAL CONDITIONS/COMPONENTS

1. NON-REINFORCED MASONRY

VERIFY THAT DOWELS FOR VERTICAL WALL AND COLUMN REINFORCING ARE IN PLACE AND ARE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS.

D. MASONRY

- A) CHECK FOR TYPE OF MASONRY BLOCKS PROVIDED AND SPECIFIED.
- B) CHECK FOR COMPLIANCE OF MORTAR MIX AND RUNNING BOND.
- C) CHECK FOR VERTICAL CONTROL JOINTS.
- D) CHECK FOR ANY CRACKED BLOCKS.

2. REINFORCED MASONRY

- A. CHECK INSPECTION HOLES AT THE BOTTOM OF THE WALL.
- B. CHECK FOR SPLICE LENGTH OF DOWELS.

ARE GROUTED AND REINFORCED.

- C. CHECK THAT VERTICAL STEEL IS IN THE SAME CELL AS DOWELS.
- D. CHECK GROUT FOR SPECIFIED STRENGTH, SLUMP AND AGGREGATE SIZE.

F. CHECK THAT GROUT IS PLACED IN STAGES AND AT HEIGHTS AS PER

- E. CHECK THAT GROUT PRISM TEST ASTM-C1019 FOR GROUT ARE TAKEN.
- G. CHECK THAT BLOCKS ARE NOT WETTED PRIOR TO PLACEMENT AND PRIOR TO GROUT INSTALLATION.

H. CHECK THAT END CELLS, CELLS ADJACENT TO OPENINGS AND CORNERS

- I. CHECK THAT THE SPACING OF GROUTED CELLS IS NOT MORE THAN SPECIFIED.
- J. CHECK FOR PROPER EMBEDMENT OF VERTICAL STEEL INTO TIE BEAMS OR SLABS ABOVE.
- K. CHECK THE HORIZONTAL AND VERTICAL REINFORCING STEEL FOR GRADE, AND SIZE. CHECK TO SEE IF REINFORCEMENT HAS BEEN CLEANED OF ALL LOOSE, FLAKY, RUST AND SCALE, GREASE OR OTHER FOREIGN MATERIALS WHICH WOULD REDUCE OR PREVENT BOND.
- L. CHECK FOR CENTERING OF VERTICAL STEEL ARE PROVIDED.
- M. CHECK THAT GROUT IS PLACED ONLY IN REQUIRED CELLS AND IS CONSOLIDATED IN CELLS AS PER CODE.
- N. VERIFY TYPE OF BLOCK UNITS, MORTAR MIX, HORIZONTAL STEEL, INSERTS, AND CONNECTION WITH COLUMNS AND BEAMS.
- O. CHECK FOR CRACKS IN THE WALL AFTER A FEW DAYS.

F. CONCRETE

1. FORMS

BEFORE THE PLACEMENT OF CONCRETE, FORMS SHOULD BE INSPECTED FOR THEIR CORRECT LOCATIONS AND REQUIRED DIMENSIONS. FORM WORK SHOULD BE ADEQUATE TO SUPPORT CONSTRUCTION LOADS AS DETERMINED BY THE CONTRACTOR'S SHORING ENGINEER. BEFORE CONCRETE IS PLACED, FORM SURFACES SHOULD BE WETTED, OILED OR COATED WITH SATISFACTORY MATERIALS. IF OILING IS REQUIRED BY SPECIFICATIONS, THE OIL SHOULD BE APPLIED BEFORE REINFORCING STEEL IS PLACED. ALL FOREIGN MATERIAL SHOULD BE REMOVED.

2. JOINTS

- A. CHECK THE LOCATION OF ALL JOINTS SUCH AS EXPANSION, CONTRACTION AND CONSTRUCTION JOINTS, AS SHOWN IN CONTRACT DRAWINGS, OR AS OTHERWISE APPROVED.
- B. VERIFY THE PREPARATION OF JOINTS AS REQUIRED BY CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUCH AS WET SANDBLASTING, ROUGHENING, WETTING, ETC.
- C. CHECK THE LOCATION OF BULKHEADS IN STRUCTURAL MEMBERS, SUCH AS BEAMS OR SLABS.
- WHICH WOULD INTERFERE WITH FREE E. CHECK IF FILLER HAS BEEN INSTALLED AND SECURELY FASTENED IN

D. EXPANSION JOINTS SHOULD BE FREE FROM DEBRIS OR IRREGULARITIES,

MANUFACTURES RECOMMENDATIONS. F. CHECK IF ISOLATION JOINTS HAVE BEEN COATED WITH THE SPECIFIED

EXPANSION JOINTS IN ACCORDANCE WITH SPECIFICATIONS AND/OR

3. REINFORCEMENT - (MILD STEEL & POST-TENSION CABLE)

APPROVED MATERIAL NECESSARY TO

BREAK BOND.

- A. CHECK IF ALL REINFORCEMENT IS IN PLACE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND LATEST STRUCTURAL DRAWINGS.
- REINFORCEMENT SHOULD BE CHECKED FOR SIZE, BENDING, GRADE, LENGTHS OF SPLICES, AND BAR TO BAR SPACING.
- C. CHECK TO SEE IF REINFORCEMENT HAS BEEN CLEANED OF ALL LOOSE, FLAKY, RUST AND SCALE, GREASE OR OTHER FOREIGN MATERIALS WHICH WOULD REDUCE OR PREVENT BOND.
- D. CHECK IF REINFORCEMENT IS TIED AND SUPPORTED SECURELY SO THAT DISPLACEMENT WILL NOT OCCUR DURING CONCRETE PLACEMENT, OR FOOT TRAFFIC. IF REINFORCING IS EPOXY COATED, CHECK FOR NICKS AND BREAKS IN THE EPOXY COATING, IF DISCOVERED CHECK FOR APPLICATION OF REPAIR EPOXY COATING.
- CONCRETE COVER FOR ALL REINFORCEMENT IN PLACE MUST BE CHECKED ACCORDING TO THE JOB SPECIFICATIONS AND CONTRACT DRAWINGS.
- LOCATION AND LENGTH OF REINFORCEMENT SPLICES SHOULD BE CHECKED AND SPLICES NOT INDICATED ON THE CONTRACT DOCUMENTS SHOULD NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
- G. CHECK POST-TENSIONING CABLE STRESSING OPERATION MAKING SURE THAT THE JACKS BEING USED HAVE RECENT CALIBRATION AND THAT THE METHODS UTILIZED IN MEASURING ELONGATIONS ARE ACCURATE. SPECIAL INSPECTOR SHALL OBSERVE AND RECORD ELONGATIONS AND REVIEW FOR ACI COMPLIANCE.

4. SHORING AND RESHORING

OBTAIN A COPY OF A SHORING/RESHORING INSPECTION REPORT PREPARED BY THE CONTRACTOR'S SPECIALTY SHORING DESIGNER ENGINEER AND MAINTAIN SAID REPORT IN THE SPECIAL INSPECTOR'S RECORDS. CHECK CONFORMANCE TO SHORING AND RESHORING PLAN, I.E. LOCATION, SPACING, SUITABILITY, GENERAL SIZE AND QUALITY OF SHORING SUPPORTING HORIZONTAL AND VERTICAL MEMBERS.

5. OPENINGS

GENERAL LOCATION OF ALL OPENINGS SHALL BE CHECKED AND, IF ADDITIONAL OPENINGS, WHICH ARE NOT SHOWN ON THE PLANS, ARE REQUIRED, THE ENGINEER SHOULD APPROVE PROPOSED OPENINGS. DIAGONAL CORNER REINFORCING STEEL SHOULD REINFORCE ALL OPENINGS. AS SPECIFIED ON STRUCTURAL DRAWINGS OR AS RECOMMENDED BY THE ENGINEER OF RECORD.

6. EMBEDDED FIXTURES

- A. UNLESS OTHERWISE PROVIDED OR APPROVED, ANCHOR BOLTS INSERTS, PIPE SLEEVES, PIPES, CONDUITS, WIRING, FLASHINGS, INSTRUMENTS, AND OTHER EMBEDDED FIXTURES AND MECHANICAL EQUIPMENT. SHOULD BE FIXED FIRMLY IN FINAL POSITION BEFORE CONCRETE IS PLACED AND SHOULD MEET SIZE AND PLACING RECOMMENDATIONS OF THE BUILDING
- B. IF EMBEDDED ITEMS ARE IN CONFLICT WITH EACH OTHER OR WITH REINFORCING STEEL BARS. THE RELOCATION OF THESE ITEMS AND/OR CUTTING, BENDING, DISPLACEMENT OR OMISSION OF STEEL BARS SHALL NOT BE ALLOWED EXCEPT AS APPROVED BY THE ENGINEER OF THE

7. CONCRETE INSPECTION AT JOB SITE

- A. FREQUENTLY CHECK MIXING AND DELIVERY TIME AND MONITOR TESTING LABORATORY'S HANDLING AND STORAGE OF TEST CYLINDERS.
- B. THE UNIFORMITY OF FRESHLY MIXED CONCRETE SHOULD BE VISUALLY CHECKED.
- C. CHECK THAT PROPER REINFORCING PLACEMENT AND COVER IS MAINTAINED DURING CONCRETE POUR AND THAT VIBRATOR IS BEING
- D. CHECK THAT CONCRETE IS BEING CURED ACCORDING TO SPECIFICATIONS AND ACI RECOMMENDATIONS.
- E. CHECK FOR HONEYCOMB AND ROCK POCKETS. DURING REPAIRS, CHECK IF THEY HAVE BEEN CUT BACK TO SOLID MATERIAL AND IF ALL LOOSE MATERIAL HAS BEEN REMOVED. IF CONDITION IS MORE THAN SURFACE HONEYCOMB, NOTIFY THE ENGINEER.
- CHECK SURFACE PREPARATION AND REPAIR OF AREAS CONTAINING DEFECTIVE CONCRETE.
- G. CHECK FOR COMPLETE CURING OF PATCHED AREAS.
- H. INSPECT FOR ANY HOLES DRILLED IN SLABS, WALLS, COLUMNS, OR ANY OTHER STRUCTURAL COMPONENT WITHOUT PRIOR APPROVAL. CHECK FOR ANY REINFORCING STEEL BARS OR TENDONS EXPOSED AT FACE OF REINFORCED CONCRETE MEMBERS.

G. STRUCTURAL STEEL

CHECK STRUCTURAL STEEL IN ACCORDANCE WITH STRUCTURAL DRAWINGS. CHECK SIZE AND LOCATION OF STRUCTURAL STEEL MEMBERS AND CONNECTIONS.

H. PRE-ENGINEERED STRUCTURAL LIGHT-GAUGE STEEL FRAMING SYSTEMS

CHECK LIGHT-GAUGE FRAMING AND STEEL DECKING IN ACCORDANCE WITH REVIEWED AND APPROVED SHOP DRAWINGS AND SPECIFICATIONS. CHECK SIZE AND LOCATION OF LIGHT-GAUGE STEEL MEMBERS AND CONNECTIONS.

I. PRE-ENGINEERED STRUCTURAL ALUMINUM FRAMING SYSTEMS

CHECK ALUMINUM FRAMING IN ACCORDANCE WITH REVIEWED AND APPROVED SHOP DRAWINGS AND SPECIFICATIONS. CHECK SIZE AND LOCATION OF ALUMINUM STEEL MEMBERS AND CONNECTIONS.

J. PRE-ENGINEERED AND/OR TESTED WINDOW, DOOR AND SHUTTER FRAMING

b&w structural designs, llc.

201 North Franklin Street, Suite 1970

Tampa, FL 33602 (813) 374-2459

www.structural-designs.com

CERTIFICATE OF AUTHORIZATION NUMBER: 8352

TO THE BEST OF MY KNOWLEDGE AND ABILITY.

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JOB NUMBER: 15-128

CHECK CONNECTIONS FOR ATTACHMENT OF FRAMING SYSTEM TO PRIMARY STRUCTURE IN ACCORDANCE WITH REVIEWED AND APPROVED SHOP DRAWINGS AND SPECIFICATIONS. CHECK SIZE AND SPACING CONNECTIONS.

K. SUBMITTALS

1. GENERAL

EQ. = EQUALS.M.S. = SHEET METAL SCREW E.S. = EACH SIDESTD. = STANDARDE.W. = EACH WAY SW = SHEARWALLEXIST. = EXISTINGS.W. = SHORT WAYFXP. = FXPANSIONSTL. = STEELSTRUCT. = STRUCTURAL FLR. = FLOORT/O = THRU OUTFDN. = FOUNDATIONT.O. = TOP OF ... F.S. = FAR SIDET = TOPFT. = FOOTTEMP. = TEMPERATUREFTG. = FOOTINGTYP. = TYPICALGA. = GAGEU.N.O. = UNLESS NOTEDGALV. = GALVANIZEDotherwise G.C. = GENERAL CONTRACTORVERT. = VERTICAL HC = HOLLOW COREw/=WIHHORIZ. = HORIZONTAL WP = WORK POINTH.P. = HIGH POINTW.W.F. = WELDED WIRE FABRIC I.J. = ISOLATION JOINT INFO. = INFORMATIONL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF <u>BAKER BARRIOS ARCHITECTS, INC</u>. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, ESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF <u>BAKER BARRIC</u> <u>RCHITECTS, INC</u>. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 50 .C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS. ARRANGEMENTS AND DESIGNS DISCLOSED HERE AY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION 10/22/2016 | PERMIT SET 06/21/2016 | FOUNDATION PERMIT SET Revisions / Submissions TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S CHRISTOPHER S. WRIGHT, PE KNOWLEDGE AND ABILITY. THE PLANS AND PE# 54880

SPECIFICATIONS COMPLY WITH THE APPLICABLE

MINIMUM BUILDING CODES.

ABBREVIATIONS

A.B. = ANCHOR BOLT

ARCH. = ARCHITECT

B.C. = BOTTOM CHORD

C.I.P. = CAST IN PLACE

C.J. = CONSTRUCTION JOINT

CONFIG. = CONFIGURATION

CONSTR. = CONSTRUCTION

CMU = CONCRETE MASONRY UNIT

BAL. = BALANCE

BLDG. = BUILDING

BOTT = BOTTOM

BRG. = BEARING

CL = CENTERLINE

COL. = COLUMN

CTR. = CENTER

DBL. = DOUBLE

DTL. = DETAIL

DN. = DOWN

EA. = EACH

DIA. = DIAMETER

DIM. = DIMENSION

DWG. = DRAWING

E.E. = EACH END

E.F. = EACH FACE

E.J. = EXPANSION JOINT

EL./ELEV. = ELEVATION

CONC. = CONCRETE

CONT. = CONTINUOUS

CONTR. = CONTRACTOR

CIR. = CIFAR

BM. = BEAM

APPROX. = APPROXIMATELY

ARCHT'L. = ARCHITECTURAL

ALT. = ALTERNATE

 $\mathbf{0} = \mathsf{AT}$

INT. = INTERIOR

L.W. = LONG WAY

MAT'L. = MATERIAL

M.D. = MID-DEPTH

MAX. = MAXIMUM

MIN. = MINIMUM

N.S. = NEAR SIDE

O.C. = ON CENTER

OPNG. = OPENING

PART. = PARTITION

PART'L. = PARTIAL

plf = POUNDS PER LINEAR FOOT

psi = POUNDS PER SQUARE INCH

PRESSURE TREATED

psf = POUNDS PER SQUARE

P.T. = POST TENSION OR

REV. = REVISED / REVISION

S.J. = CONTRACTION JOINT

SI# 1181

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TAMPA, FLORIDA 33602

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INFO@BAKERBARRIOS.COM

813.549.1900

R.O. = ROUGH OPENING

REINF. = REINFORCING

REQ'D. = REQUIRED

SCHED. = SCHEDULE

SECT. = SECTION

SIM. = SIMILAR

PL = PLATE

MFR. = MANUFACTURER

MISC. = MISCELLANEOUS

M.O. = MASONRY OPENING

N.I.C. = NOT IN CONTRACT

N.T.S. = NOT TO SCALE

O.H. = OPPOSITE HAND

JT. = JOINT

L = ANGLE

LG. = LONG



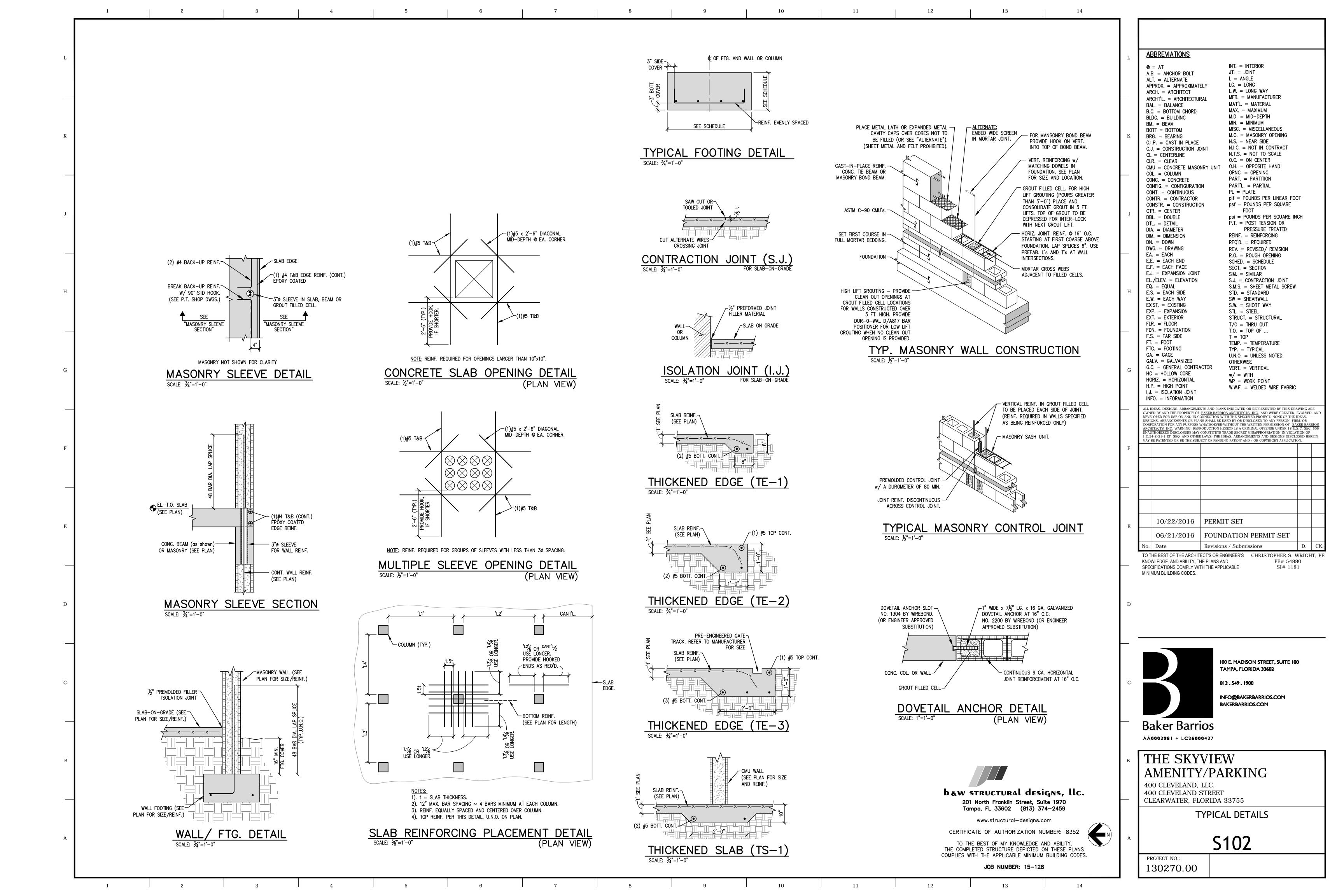
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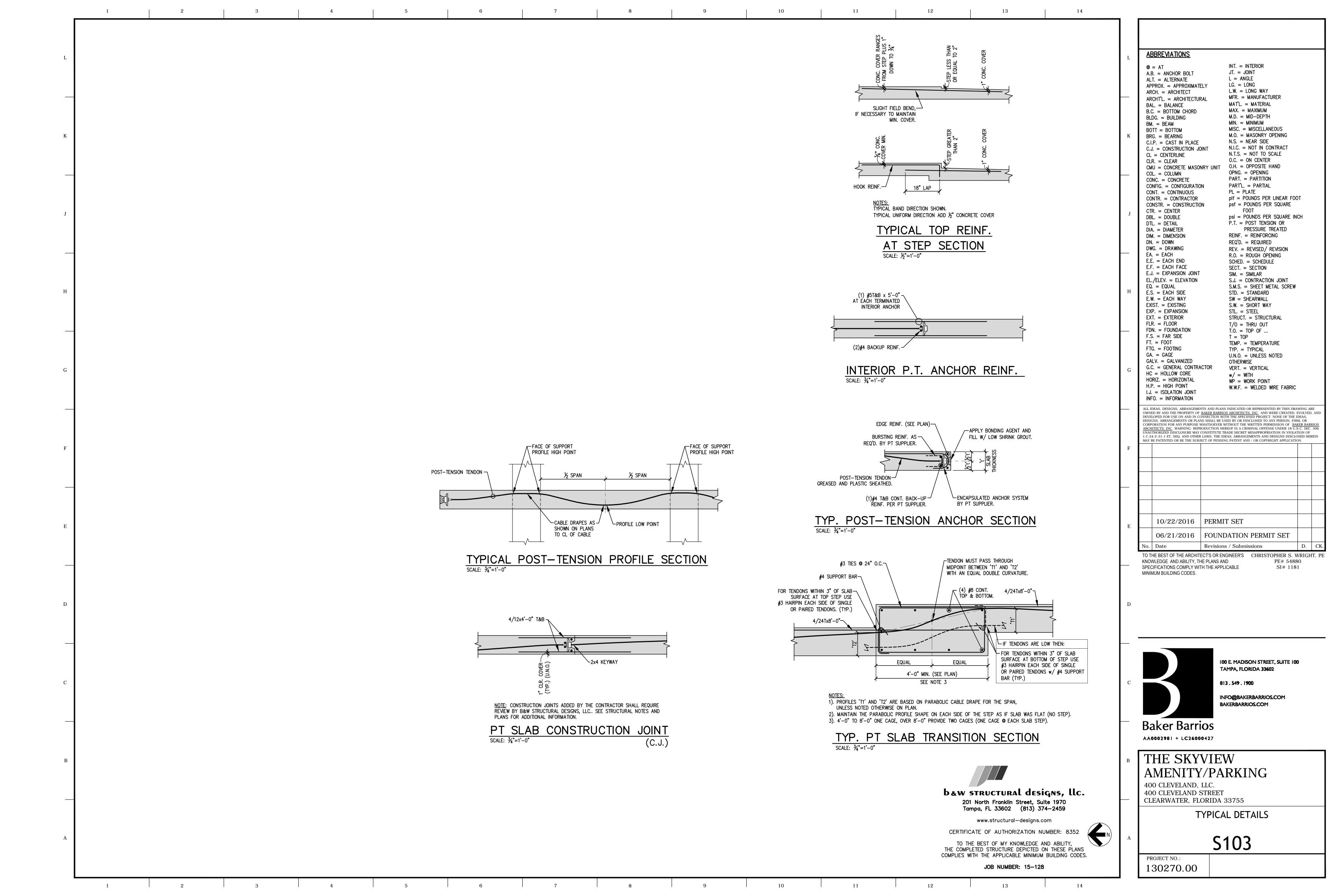
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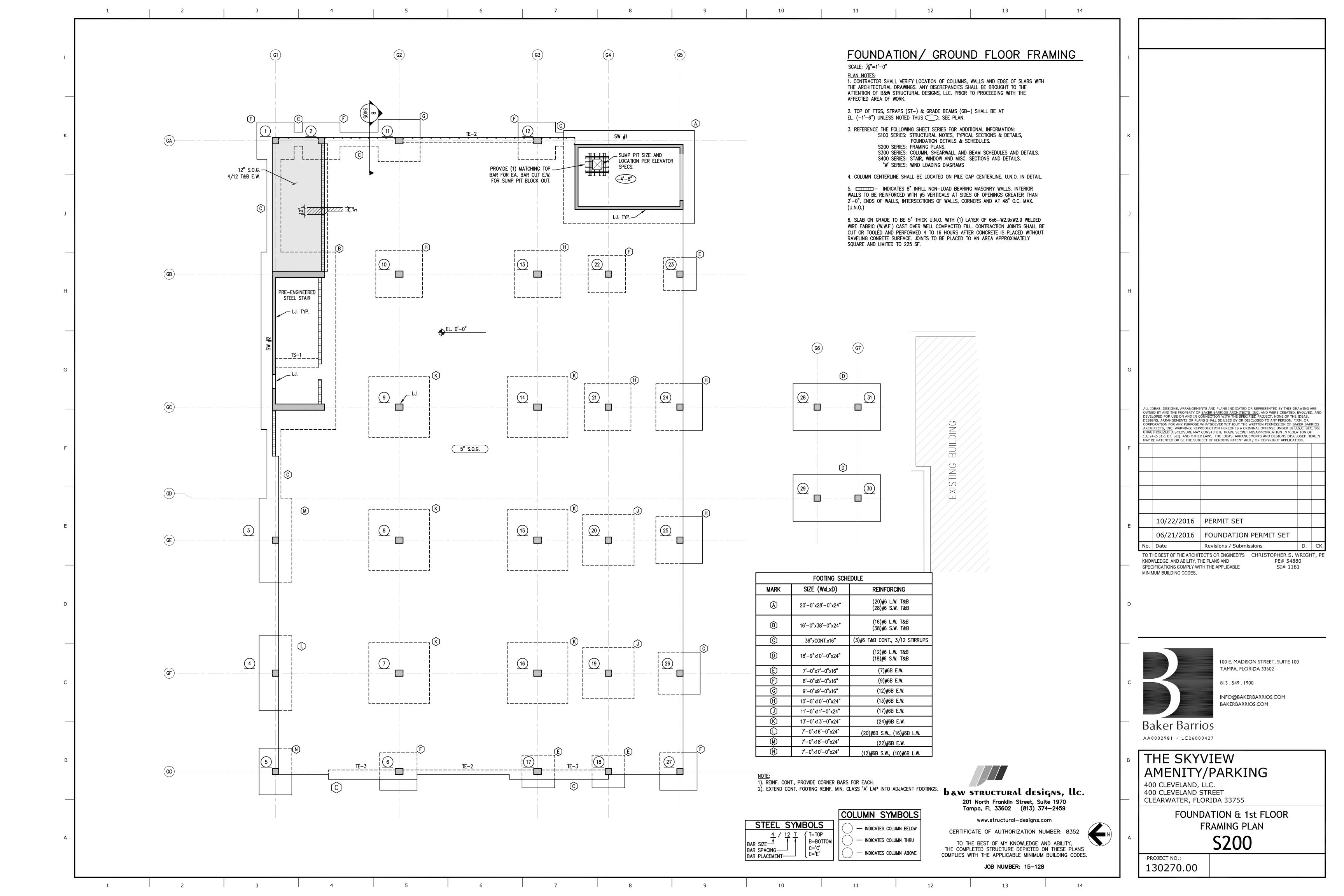
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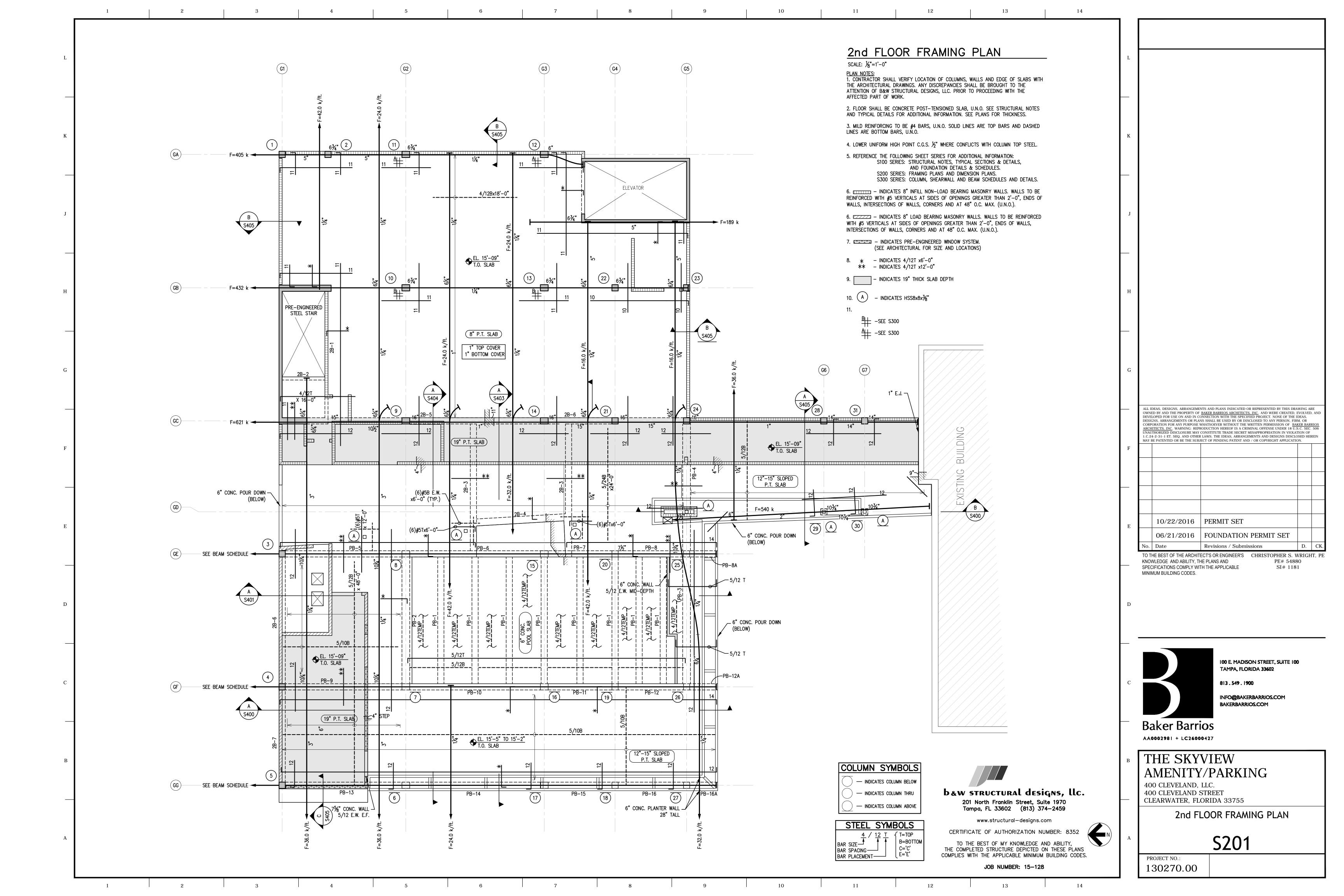
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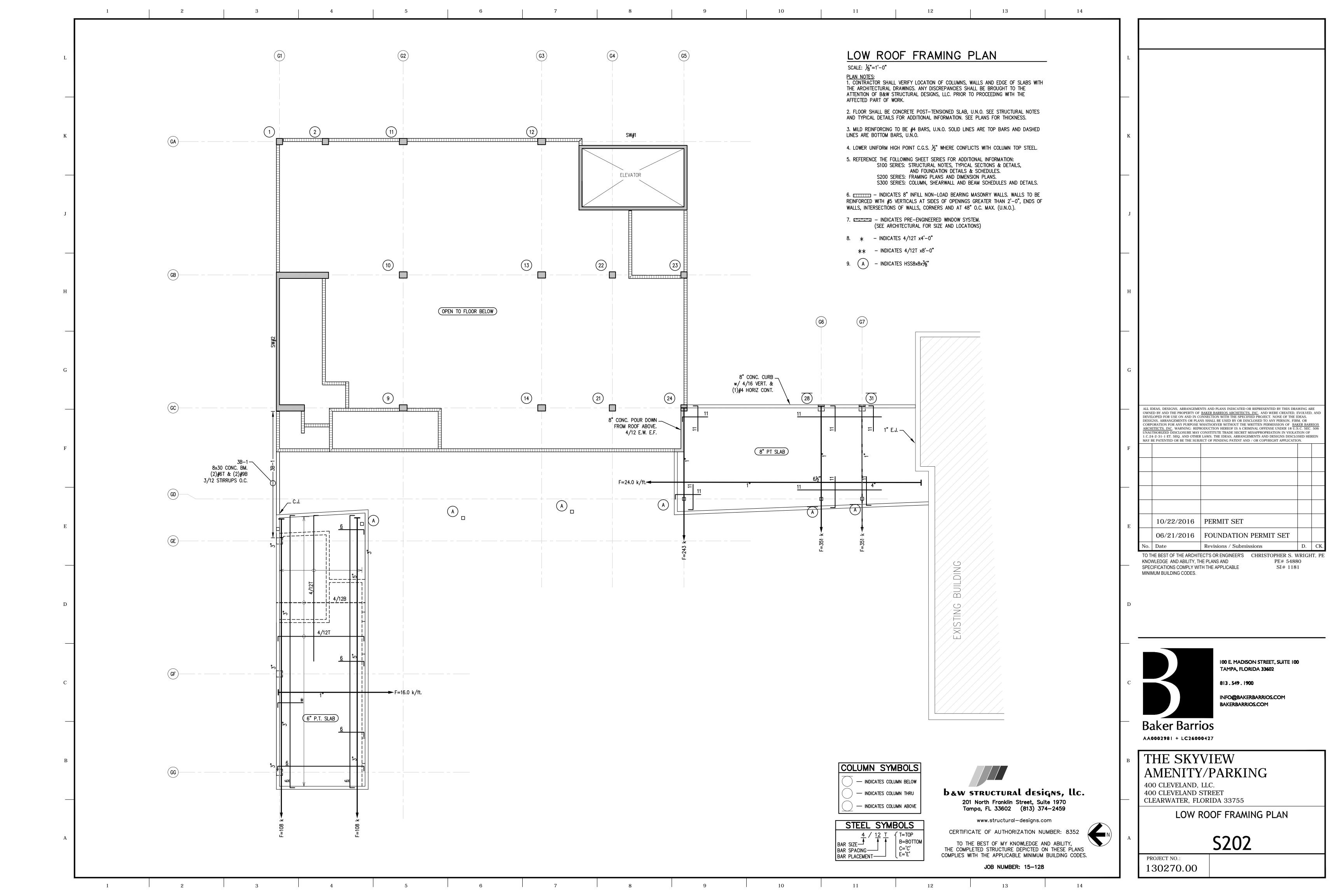
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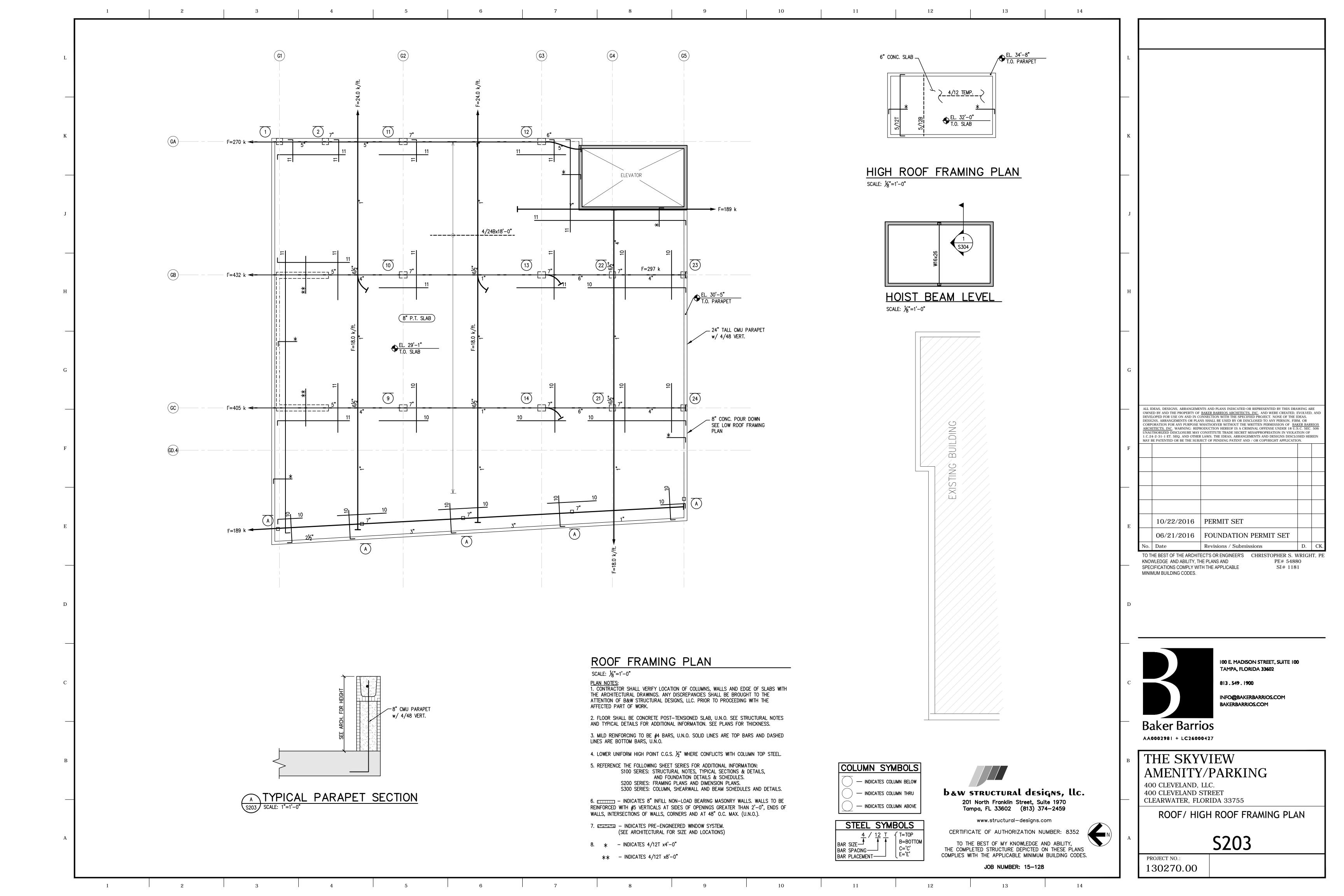






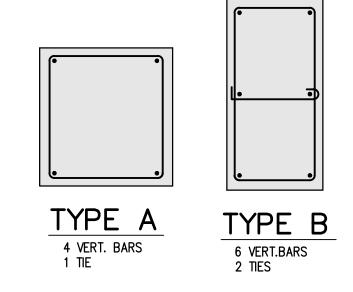


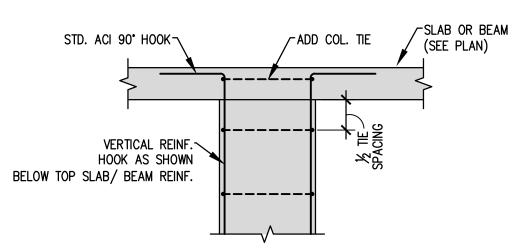




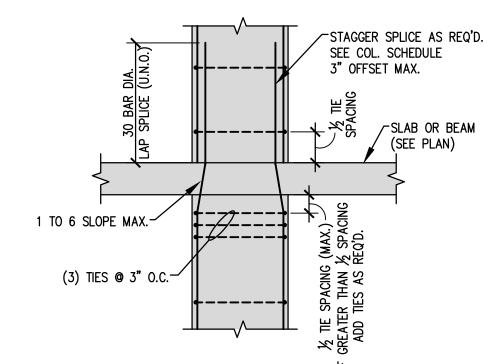
												-	TOWE	R CO	OLUM	IN S	CHE	DULE														→ Fl 20'-3"	
							16x16 4#8 3/16	16x16 4#8 3/16	16x16 4#8 3/16	16x16 4#8 3/16							16x24 6#8 3/16	16×24 6#8 3/16	16x24 6#8 3/16	16x24 6#8 3/16	16x24 6#8 3/16	16x24 6#8 3/16				16x16	16x16	16x16	16x16 4#8 3/16	16x16 4#8 3/16	SIZE REINF. TIES TYPE SIZE	EL. 29'-3" T.O. ROOF SEE PLAN T.O. LOW ROOF	آ
							Á	A	Ā	Ā							В	В	В	В	В	В				4#8 3/16 A	4#8 3/16 A	4#8 3/16 A	A	A	REINF. TIES TYPE	EL. 15'-9" T.O. 2ND FLOOR	f'c = 5 k
16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x24 6#8	16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	16x16 4#8	SIZE REINF.	T.O. 2ND FLOOR								
3/16 A	3/16 A	3/16 A	3/16 A	3/16 A	3/16 A	3/16 A	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 B	3/16 A	3/16 A	3/16 A	3/16 A	3/16 A	TIES Type	SEE PLAN	\downarrow							
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	COLUMN # MARK	SEE PLAN T.O. FDN.	
					2	2					2	2	2	2	2	2							2	2	2						NOTES		

1). SEE S300 FOR TYPICAL LAP DETAIL, LAP LENGTHS AND COLUMN TYPES. 2). 2nd floor landscape deck elevation varies with slope. Verify column height.

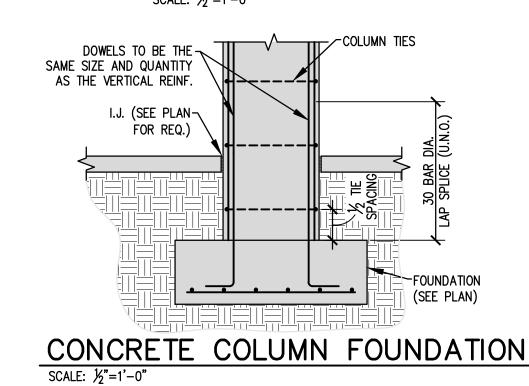




CONCRETE COLUMN TERMINATION AT SLAB OR BEAM

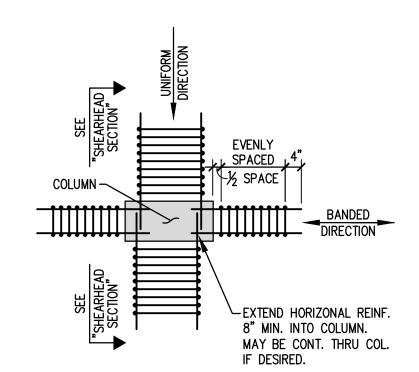


CONCRETE COLUMN SPLICE AT SLAB OR BEAM SCALE: ½"=1'-0"



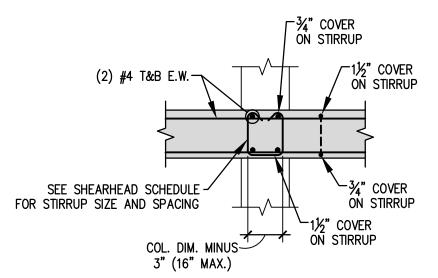
SH	EAR	HEA) SC	HEDU	ILE
SHEARHEAD DESIGNATION	NO. OF LEGS	STIRRUP SIZE	STIRRUP SPACING	NO. OF STIRRUPS PER LEG	STIRRUP CONFIGURATION
4	3	#4	3" O.C.	24	999

NOTES:
1. SEE STANDARD DETAILS AND SECTIONS. 2. Fy=60 ksi ~ REINFORCING SHOWN.



NOTE: (4) LEG SHEADHEAD SHOWN, SEE SCHEDULE FOR NUMBER OF LEGS.

SHEARHEAD MILD STEEL DETAIL SCALE: 3/4"=1'-0" (PLAN VIEW)



SHEARHEAD SECTION SCALE: 3/4"=1'-0"



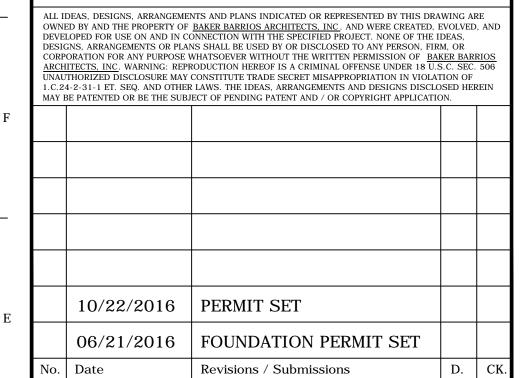
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THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NUMBER: 15-128



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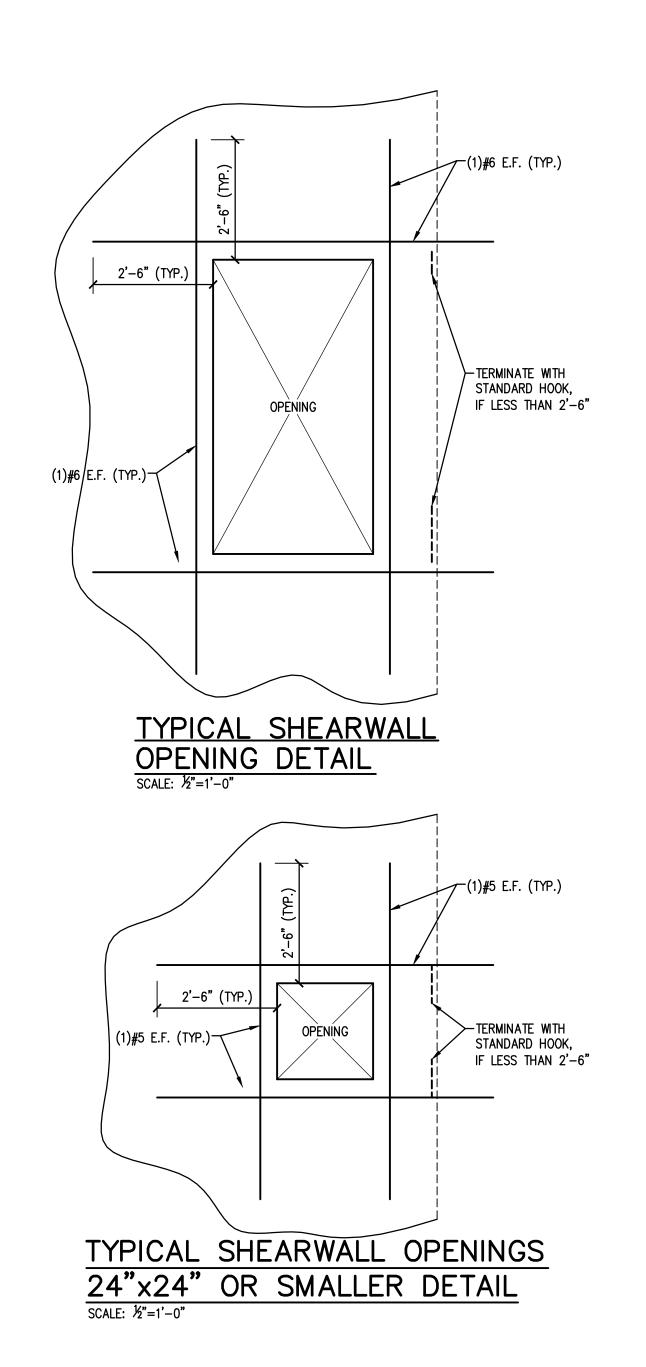
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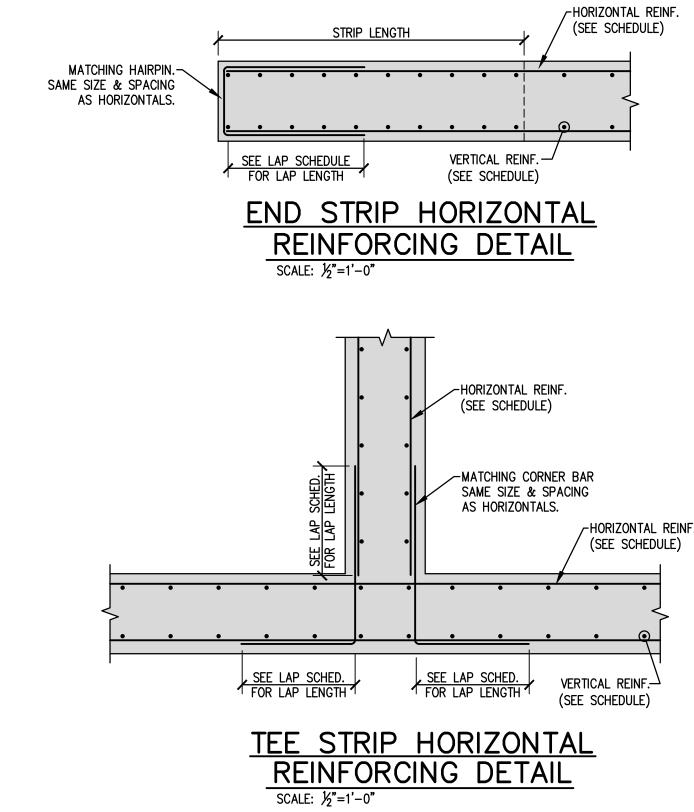
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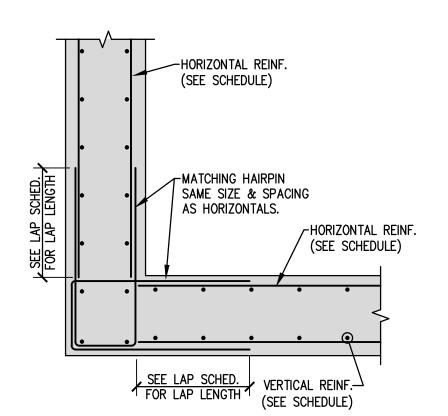
COLUMN SCHEDULE & DETAILS

S300

PROJECT NO.: 130270.00





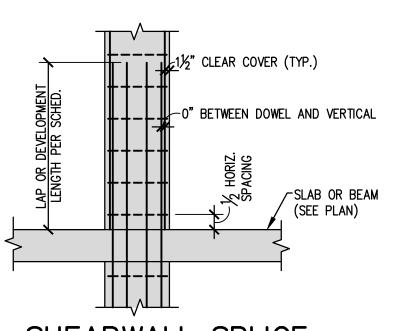


CORNER STRIP HORIZONTAL

REINFORCING DETAIL

SCALE: ½"=1'-0"

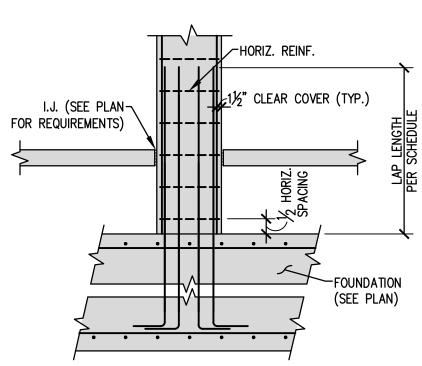
STD. ACI 90° HOOK	SLAB OR BEAM (SEE PLAN)
VEDTICAL DEINE -	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5
VERTICAL REINF. HOOK AS SHOWN BELOW TOP SLAB/ BEAM REINF.	72 HORIZ SPACING
	L
SHEARWALL	TERMINATION
AT SLAB	OR BEAM
SCALE: ½"=1'-0"	



SHEARWALL SPLICE

AT SLAB OR BEAM

SCALE: 1/2-0"



SHEARWALL FOUNDATION

BAR LAP SPLICE SCHEDULE								
REINF.	CONCRETE STRENGTH							
SIZE	3000 psi	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi	9000 psi	1000 psi OR HIGHER
#3	22"	19"	17"	15"	14"	13"	13"	12"
#4	29"	25"	22"	20"	19"	18"	17"	16"
#5	36"	31"	28"	25"	24"	22"	21"	20"
#6	43"	37"	33"	31"	28"	26"	25"	24"
#7	63"	54"	49"	44"	41"	38"	36"	34"
#8	72"	62"	55"	51"	47"	44"	41"	39"
#9	81"	70"	63"	57"	53"	49"	47"	44"
#10	91"	79"	70"	64"	59"	56"	53"	50"
#11	101"	87"	78"	71"	66"	62"	58"	55"

- 1. FOR CLEAR SPACING BETWEEN BARS <db AND/ OR CLEAR COVER <DB, MULTIPLY BY 1.5.
- 2. FOR TOP BARS MULTIPLY BY 1.3
- 3. FOR EPOXY COATED BARS, IF SPECIFIED OR APPROVED AS AN ALETERNATE, MULTIPLY BY 1.3
- 4. WHERE MORE THAN ONE FACTOR APPLIES, PRODUCT OF ALL APPLICABLE FACTORS SHALL BE APPLIED
- 5. IF DETAILER IS TO USE A DIFFERENT SCHEDULE, HE/SHE MUST SUBMIT A SEALED LETTER INDICATING THAT HIS/HER VALUES CORRESPOND TO CURRENT ACI 318 CODE

BAR DEVELOPMENT SCHEDULE								
DEINE				CONCRET	E STRENG	TH		
REINF. SIZE	3000 psi	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi	9000 psi	1000 psi OR HIGHER
#3	17"	15"	13"	12"	12"	12"	12"	12"
#4	22"	19"	17"	16"	15"	14"	13"	13"
#5	27"	24"	22"	20"	18"	17"	16"	16"
#6	35"	29"	26"	24"	22"	22"	20"	20"
#7	48"	42"	38"	34"	32"	30"	28"	27"
#8	56"	48"	43"	39"	36"	34"	32"	31"
#9	62"	54"	48"	44"	41"	38"	37"	36"
#10	70"	61"	54"	50"	46"	43"	41"	40"
#11	78"	67"	60"	55"	51"	48"	46"	44

NOTES:

- 1. FOR CLEAR SPACING BETWEEN BARS <db AND/ OR CLEAR COVER <DB, MULTIPLY BY 1.5.
- 2. FOR TOP BARS MULTIPLY BY 1.3
- 3. FOR EPOXY COATED BARS, IF SPECIFIED OR APPROVED AS AN ALETERNATE, MULTIPLY BY 1.3
- 4. WHERE MORE THAN ONE FACTOR APPLIES, PRODUCT OF ALL APPLICABLE FACTORS SHALL BE APPLIED

 5. IF DETAILER IS TO USE A DIFFERENT SCHEDULE, HE/SHE MUST SUBMIT A SEALED LETTER INDICATING THAT HIS/HER VALUES CORRESPOND TO CURRENT ACI 318 CODE

STEEL	SYM	IBOLS
BAR SIZE—BAR SPACING—BAR PLACEMENT	12 T	{ T=TOP B=BOTTO C='C' E='E'

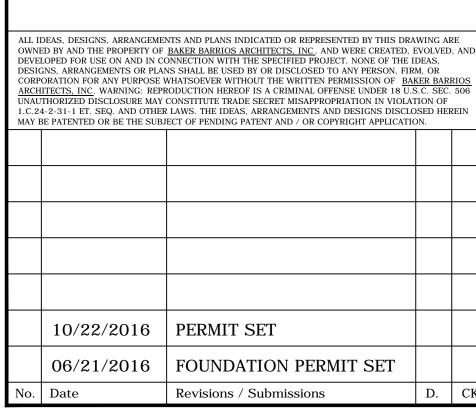
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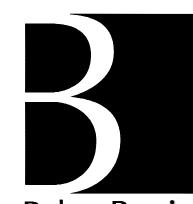
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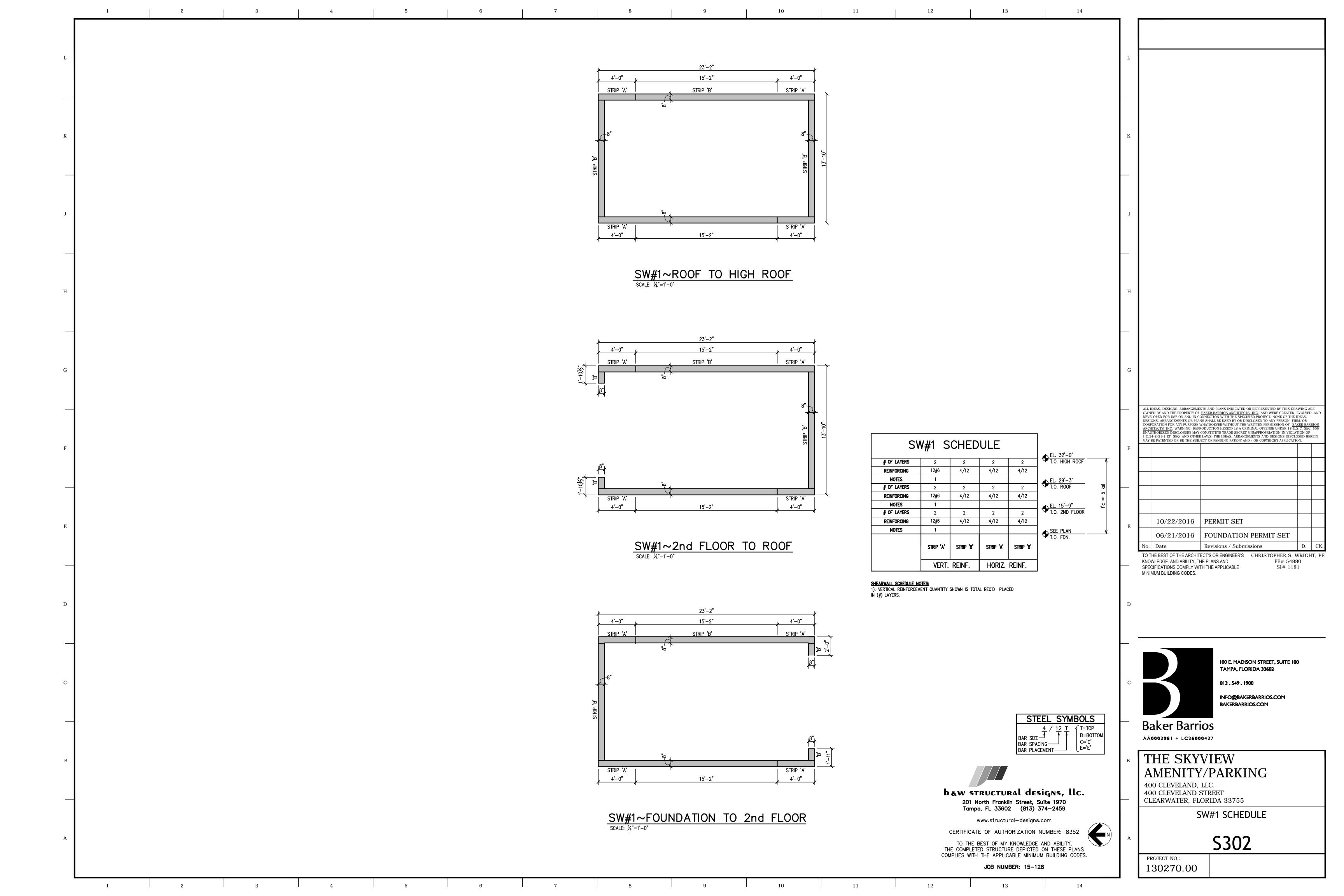
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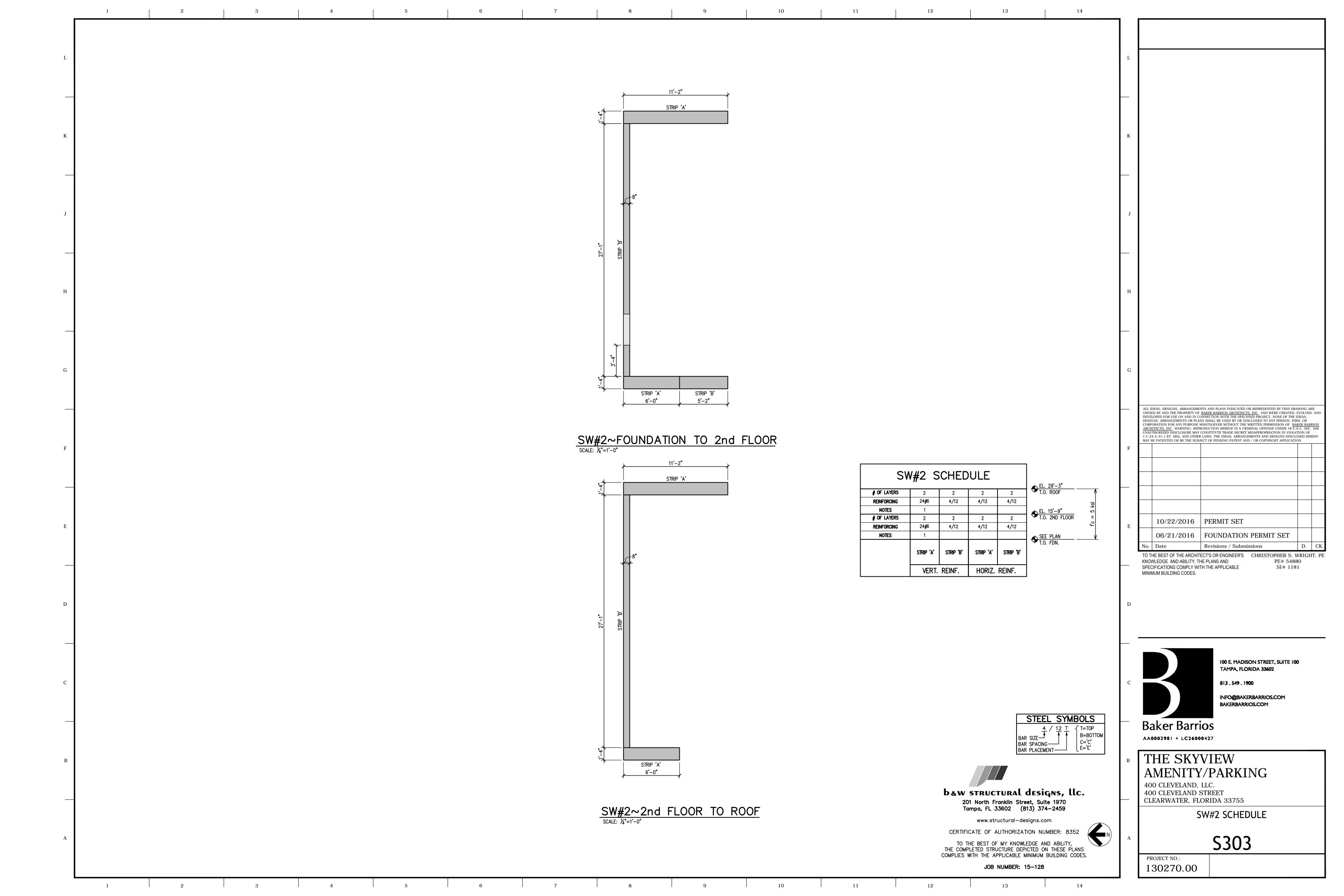
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SW DETAILS

S301

PROJECT NO.: 130270.00





FOR TOP REINFORCEMENT-PROVIDE CLASS 'A' LAP MID-SPAN, IF DESIRED. (SEE NOTE 3) / 'X'/4 OR 'Y'/4 'Y'/4 OR 'Z' USE GREATER 'C' BAR-USE GREATER USE GREATER ∠2" CLR. `_STANDARD STANDARD-HOOK 3" CLR. FOR GRADE BEAMS 'L'B' BAR 'J' BAR~ 1½" FOR OTHER BEAMS SCHEDULE FOR SPACING. USE 90° HOOKS AT ENDS. SPAN 'X' SPAN 'Y' SPAN 'Z'

'L' = CLASS 'B' TENSION LAP SPLICE

NOTES:

- 1. 'GB-' AND 'ST-' EXTEND T&B REINF. HOOK PAST COLUMN LOCATION IN PILE CAPS OR CONTINUOUS TO ADJACENT SPAN.
- 2. BEAMS GREATER THAN 20" DEEP, ADD 4/12 HORIZONTAL EACH FACE, LAP OR HOOK AT COLUMNS.

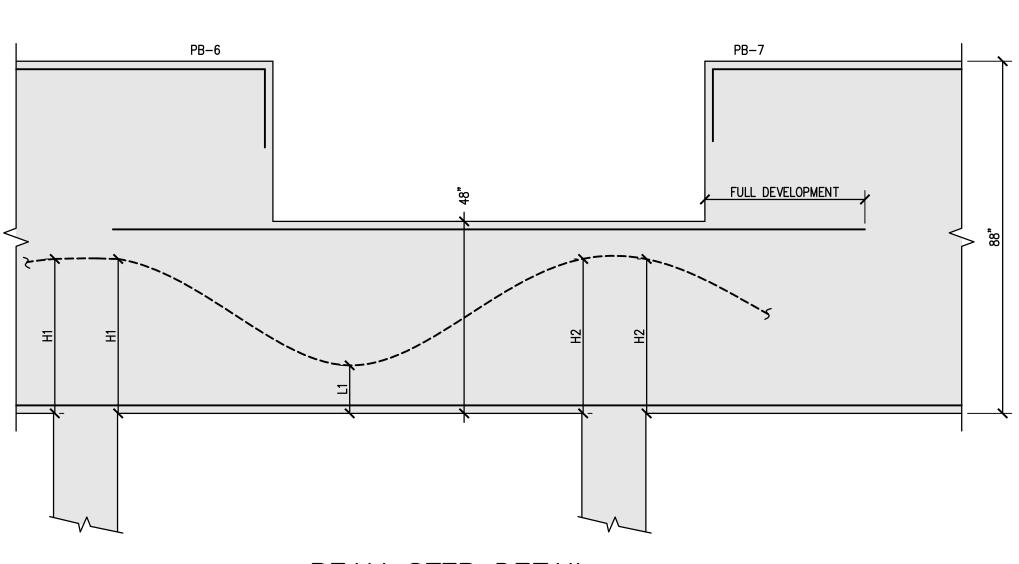
 3. TOP OF BEAM ELEVATIONS SHALL BE TOP OF SLAB, U.N.O..
- 4. ALL BEAMS: EXTEND T&B REINF. MIN. TENSION DEVELOPMENT LENGTH INTO SHEARWALLS, ELSE
- HOOK FAR SIDE OF WALL AT CORNERS.

 5. BOTTOM REINFORCING MAY BE CONTINUOUS IN LIEU OF 'J' AND 'S' BARS.
- 6. (S1) STIRRUP SPACING TO BEGIN AND END 2" FROM FACE OF SUPPORT.
- 7. IF LAP IN TOP BARS IS DESIRED AT MIDSPAN, IT MUST BE LOCATED IN THE LONGER SPAN OF ADJACENT BEAMS.
- 8. IF LAP IN TOP BARS IS DESIRED AT MID-SPAN, IT MUST BE LOCATED
- IN LONGER SPAN OF BEAMS. USE CLASS 'B' TENSION LAP IN SPAN
- ADJACENT TO CANTILEVER BEAM.

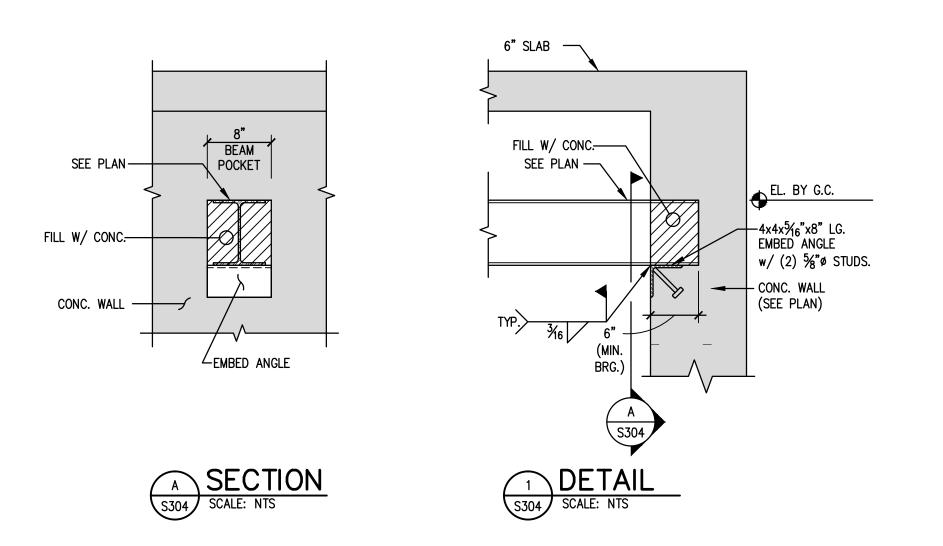
 9. PROVIDE 90° HOOK T&B BARS INTO S.W.

BEAM BENDING DIAGRAM

SCALE: ½"=1'-0"







BEAM SCHEDULE BEAM SIZE REINFORCING #3 STIRRUP BOTT. TOP "C" "E" MARK WxHSPACING (in.) REMARKS (INCHES) **S**1 S2 2B-1 3#9 3#9 12 12 16x31 2B-2 2#6 2#6 8x16 2B-3 4#10 4#10 12 16x48 2B-4 2#10 12 2#10 16x48 2B-5 #4/6 16x48 2#10 2#10 #4 / 6 2 Layers of 4#10 Bottom 2B-6 2#10 2 Layers of 4#10 Bottom 16x48 #4 / 6 #4 / 6 2B-7 16x39 3#9 3#9 2B-8 16x39 3#9 3#9 PB-1 16x25 to 16x41.5 4#9 HOOK T&B EACH END 4#9 10 PB-2 20x74 4#9 2#9 #4 / 22 #4 / 23 PB-3 20x74 4#9 2#9 2#9 #4 / 22 #4 / 22 PB-4 20x74 4#9 2#9 #4 / 22 #4 / 22 3B-1 8x30 12 12 2#9 2#6

REINFORCING POST TENSION DESIGN (KIPS - INCHES) BEAM SIZE #3 STIRRUP BOTT. TOP SPACING (in.) REMARKS MARK WxH (INCHES) S2 **FORCE** S1 H1 H2 L1 PB-5 NOTE #2 16x88 3 #11 6#10 24 24 567K 50 24 44 PB-6 16x88/48 6 #11 6#10 6 NOTE #1/#2/#4 567K 44 44 PB-7 16x48/88 24 24 36 3 #11 | 6#10 NOTE #1 567K 44 44 PB-8 16x88 24 3 #11 6#10 24 NOTE #2 567K 46 60 44 PB-8A 16x88 3 #11 | 6#10 NOTE #2 567K 60 50 CANT PB-9 567K 16x88 3 #11 6#10 24 24 NOTE #2 CANT 50 60 PB-10 NOTE #2 24 24 16x88 3 #11 | 6#10 567K 60 54 60 PB-11 16x88 3 #11 6#10 24 24 NOTE #2 567K 60 54 60 PB-12 3 #11 6#10 24 24 NOTE #2 567K 60 36 60 16x88 PB-12A 16x88 3 #11 6#10 24 24 NOTE #2 567K 60 36 50 PB-13 22x35 3#10 3#10 NOTE #3 24 20 24 324K 12 24 3#10 3#10 NOTE #3 PB-14 22x35 24 24 324K 24 12 24

24

24

24

24

24

24

STEEL SYMBOLS

BAR SIZE

 B=BOTTOM

P.T. BEAM SCHEDULE

SCHEDULE NOTES:

PB-15

PB-16

PB-16A

1) SEE BEAM STEP DETAIL THIS SHEET

22x35

22x35

22x35

3#10 3#10

3#10 3#10

3#10 3#10

- 2) TOP AND BOTT REINFORCING CONTINUOUS. SEE BENDING DIAGRAM FOR LAP AREAS. TOP STEEL SHALL BE IN (2) LAYERS, STAGGAR END HOOKS TO ACHIEVE PLACEMENT.
- 3) TOP AND BOTT REINFORCING CONTINUOUS. SEE BENDING DIAGRAM FOR LAP AREAS.
- 4) TOP AND BOTT REINFORCING CONTINUOUS. SEE BENDING DIAGRAM FOR LAP AREAS. PB-6, BOTT REINF IN 2 LAYERS, EXTEND SECOND LAYER 6'-0 PAST COLUMNS 8 AND 15.



324K

324K

324K

NOTE #3

NOTE #3

NOTE #3

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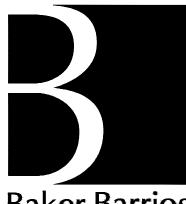
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JOB NUMBER: 15-128

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	10/22/2016	PERMIT SET					
	06/21/2016	FOUNDATION PERMIT SET					

No. Date Revisions / Submissions D. CK.

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KNOWLEDGE AND ABILITY, THE PLANS AND PE# 54880
SPECIFICATIONS COMPLY WITH THE APPLICABLE SI# 1181
MINIMUM BUILDING CODES.



100 E. MADISON STREET, SUITE 100 TAMPA, FLORIDA 33602

813.549.1900

INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM

Baker Barrios

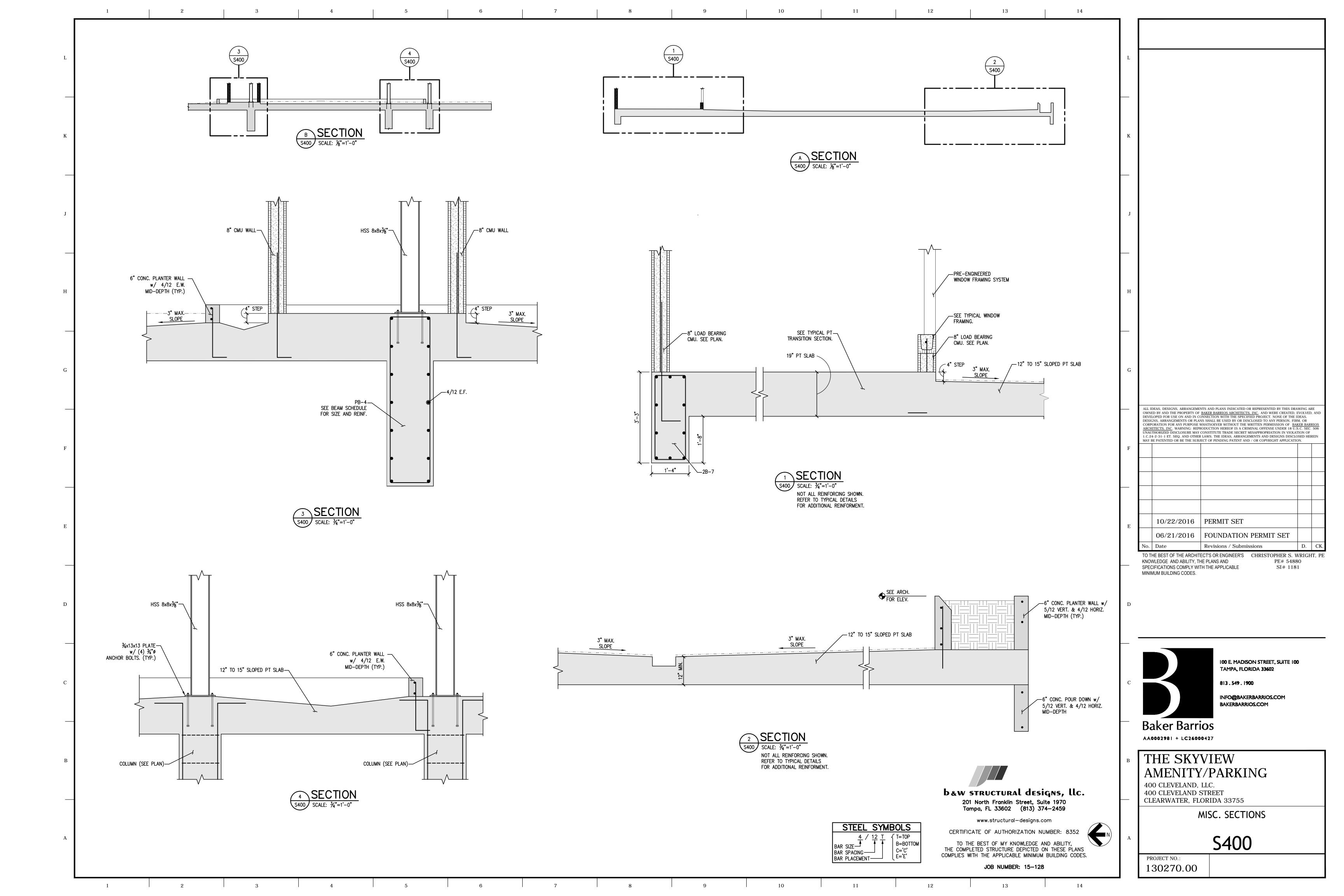
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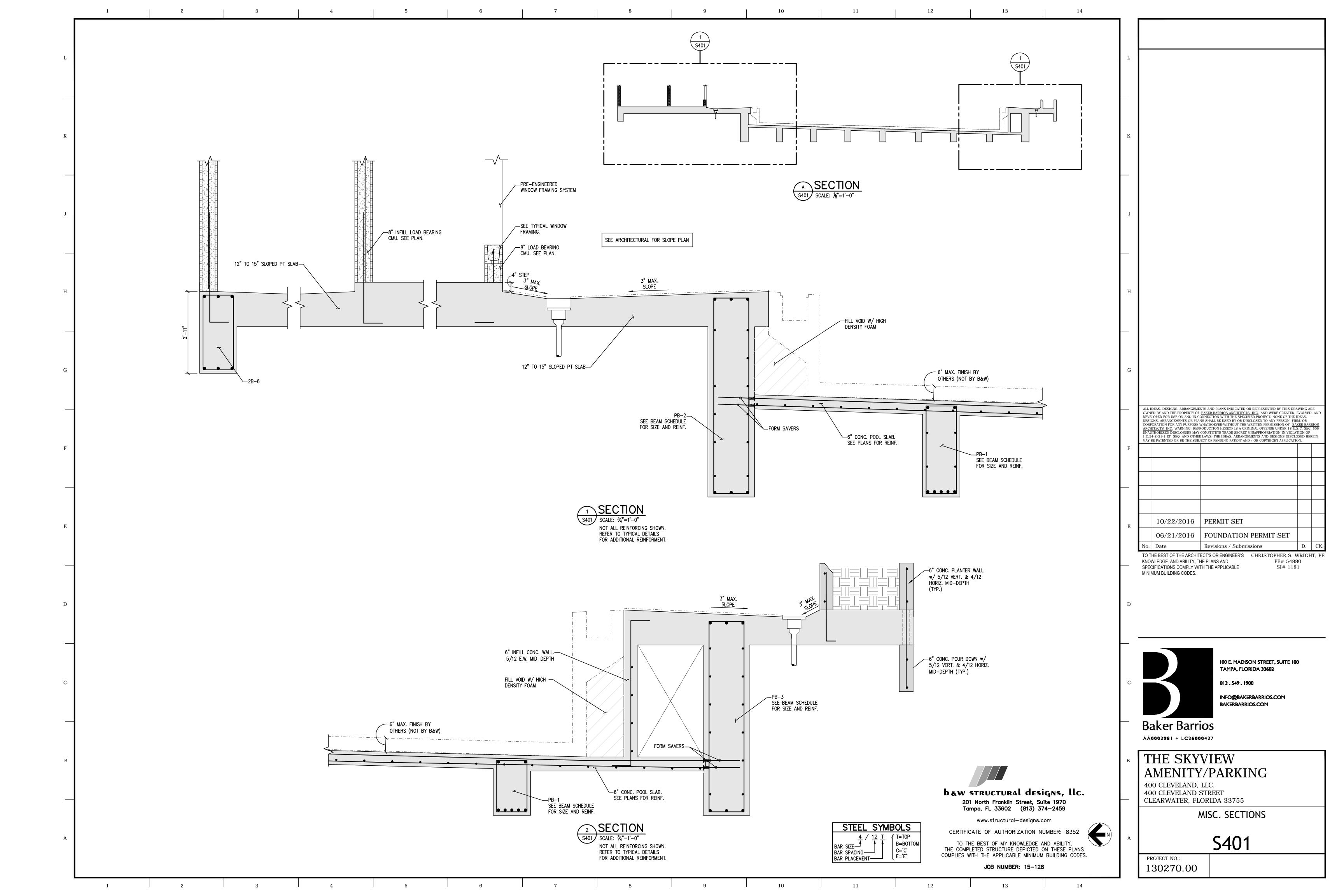
400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755

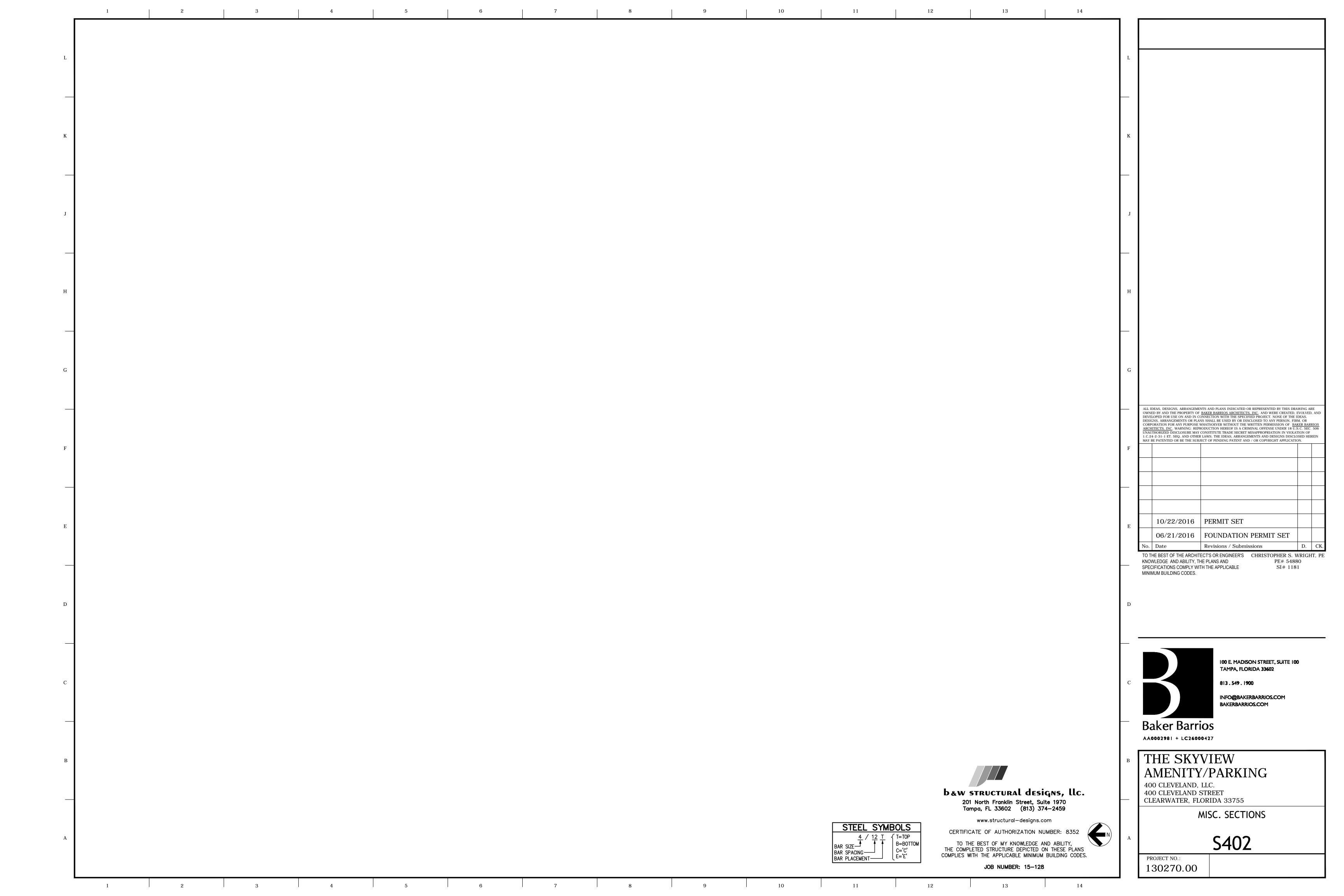
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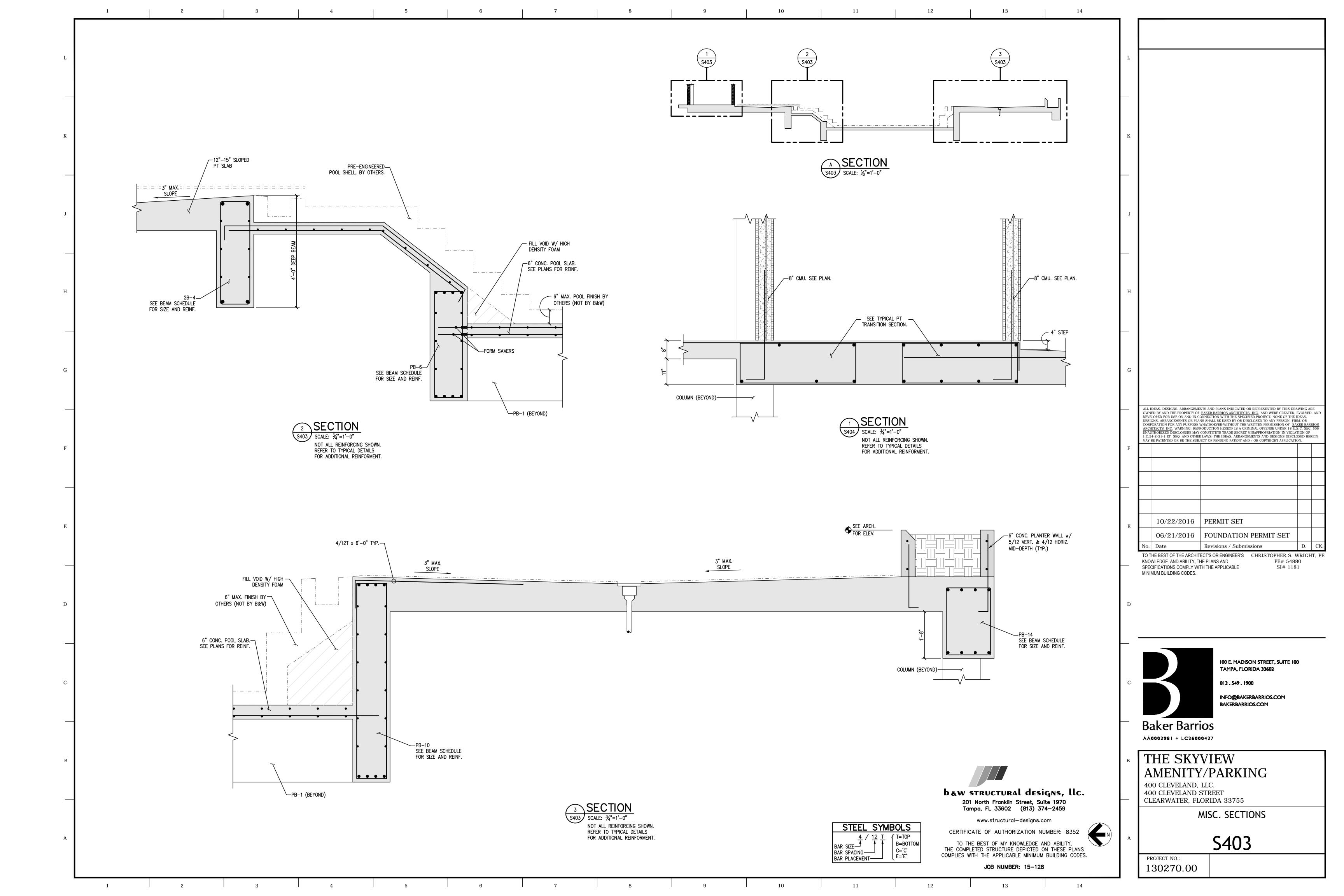
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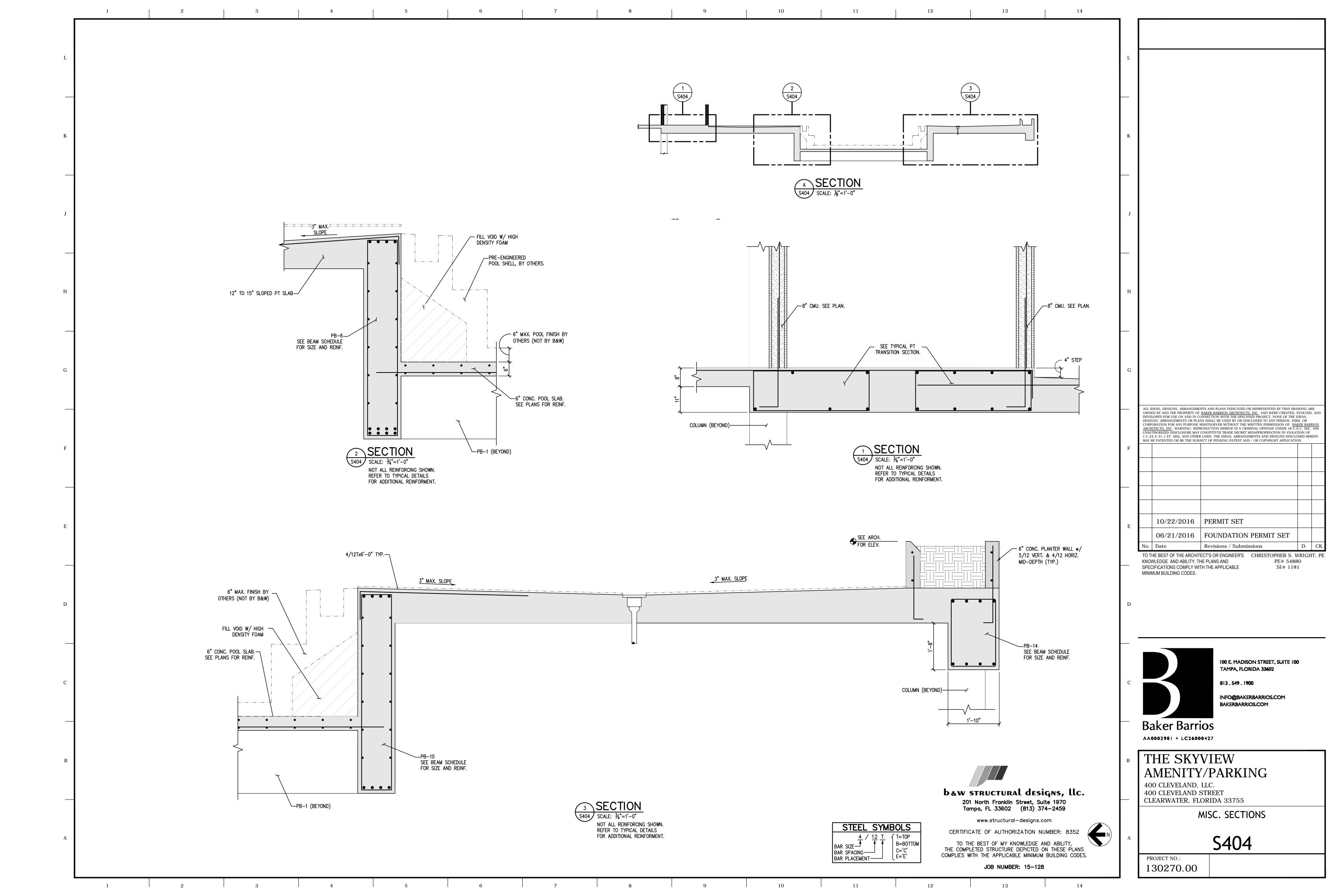
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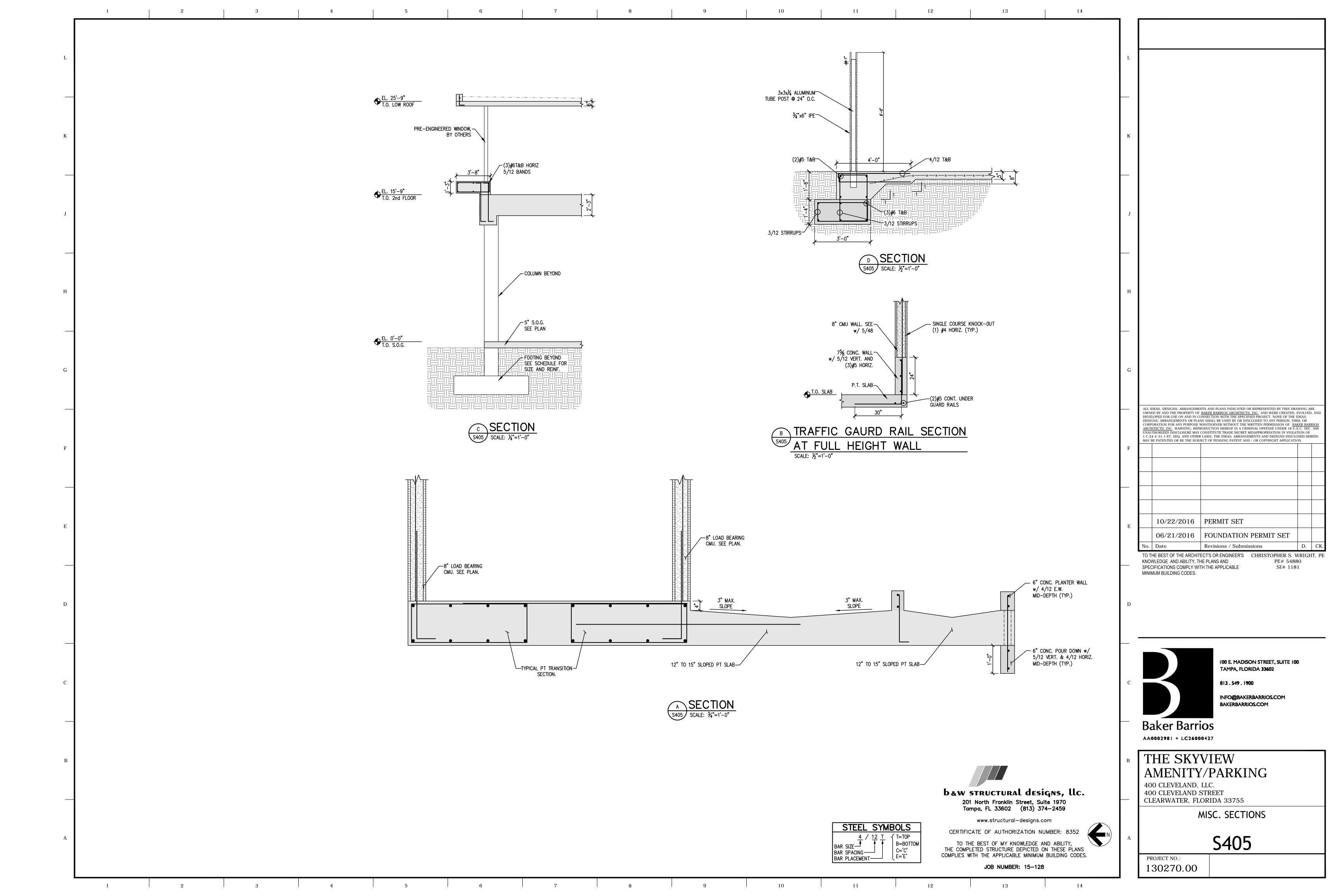


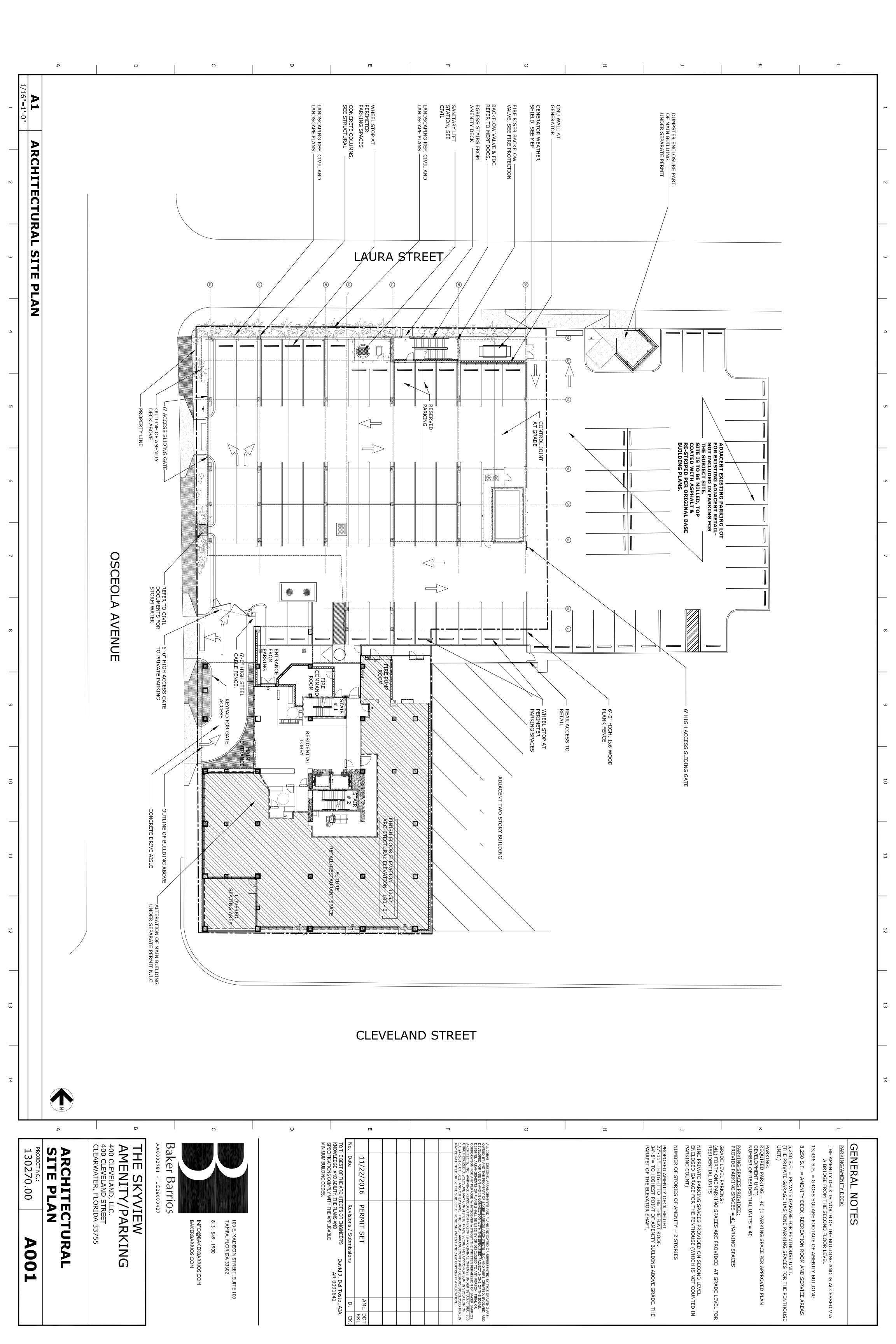


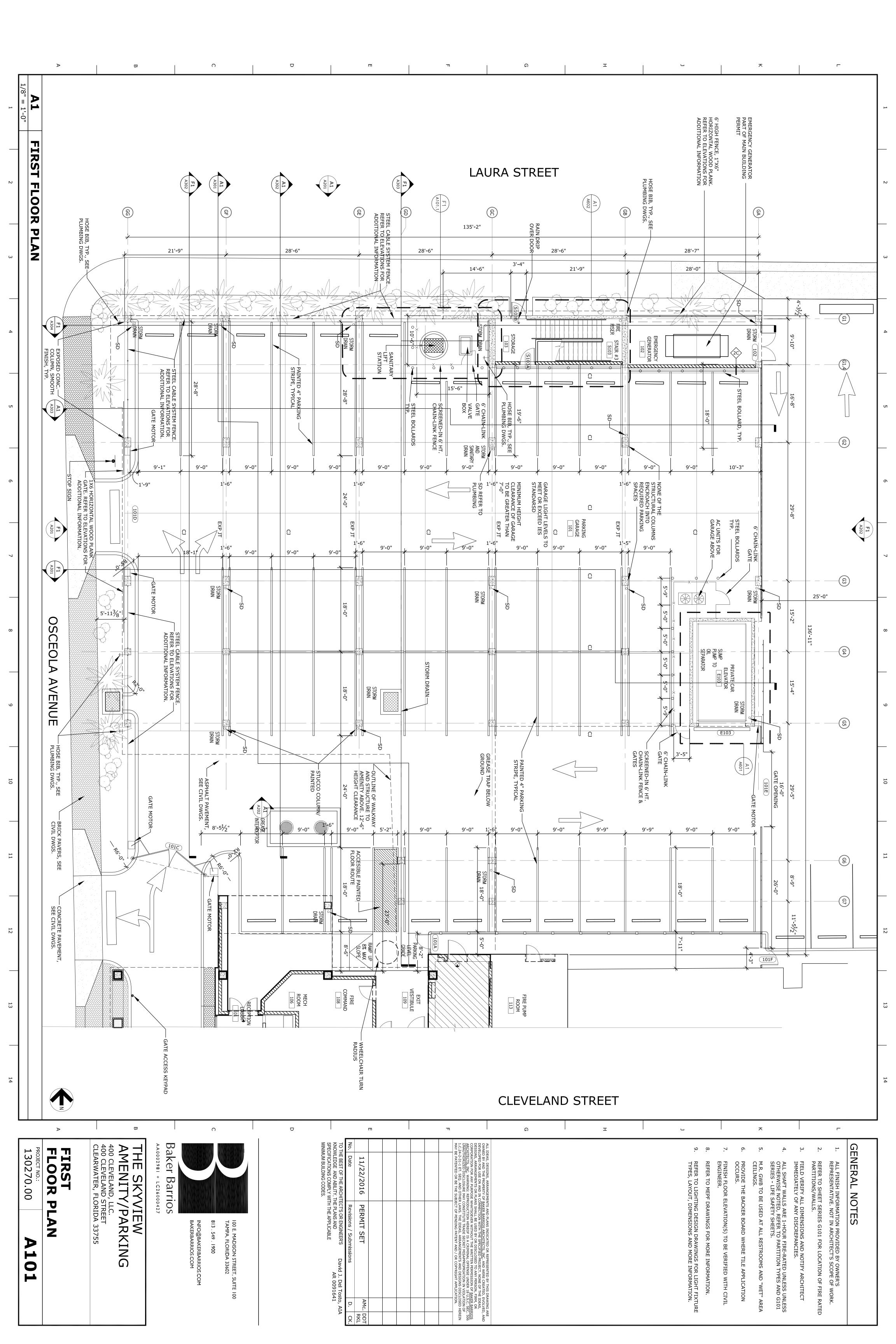


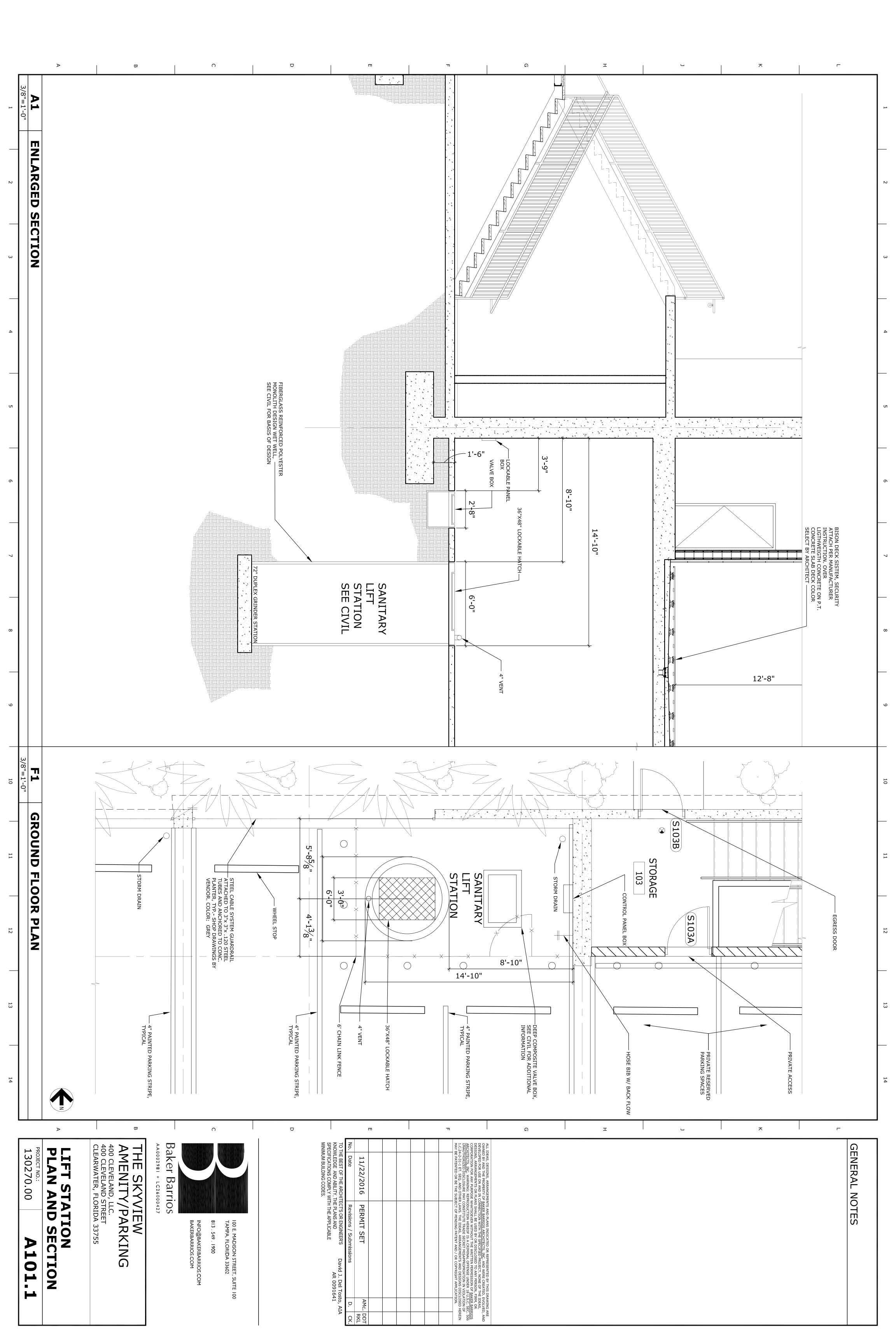


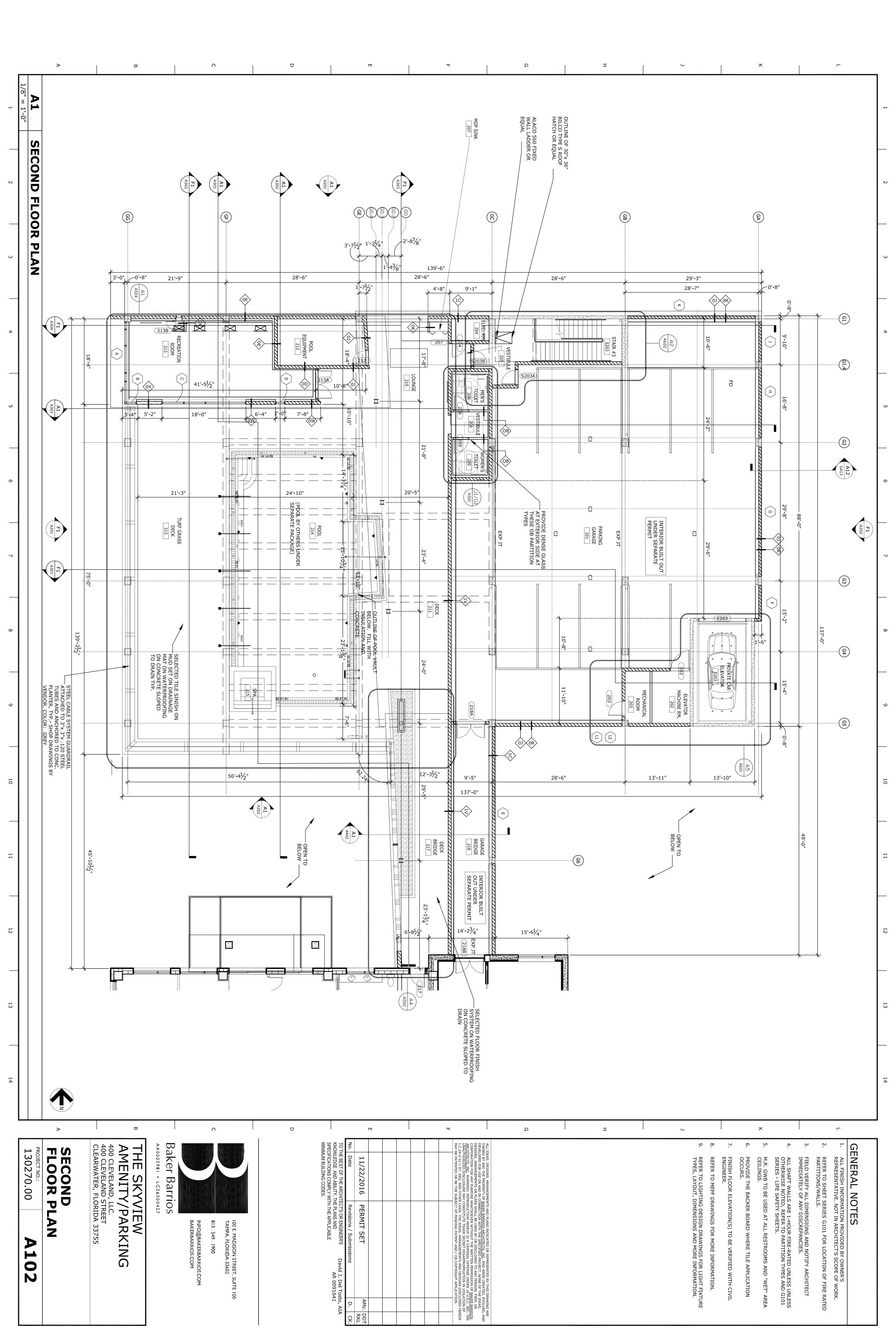


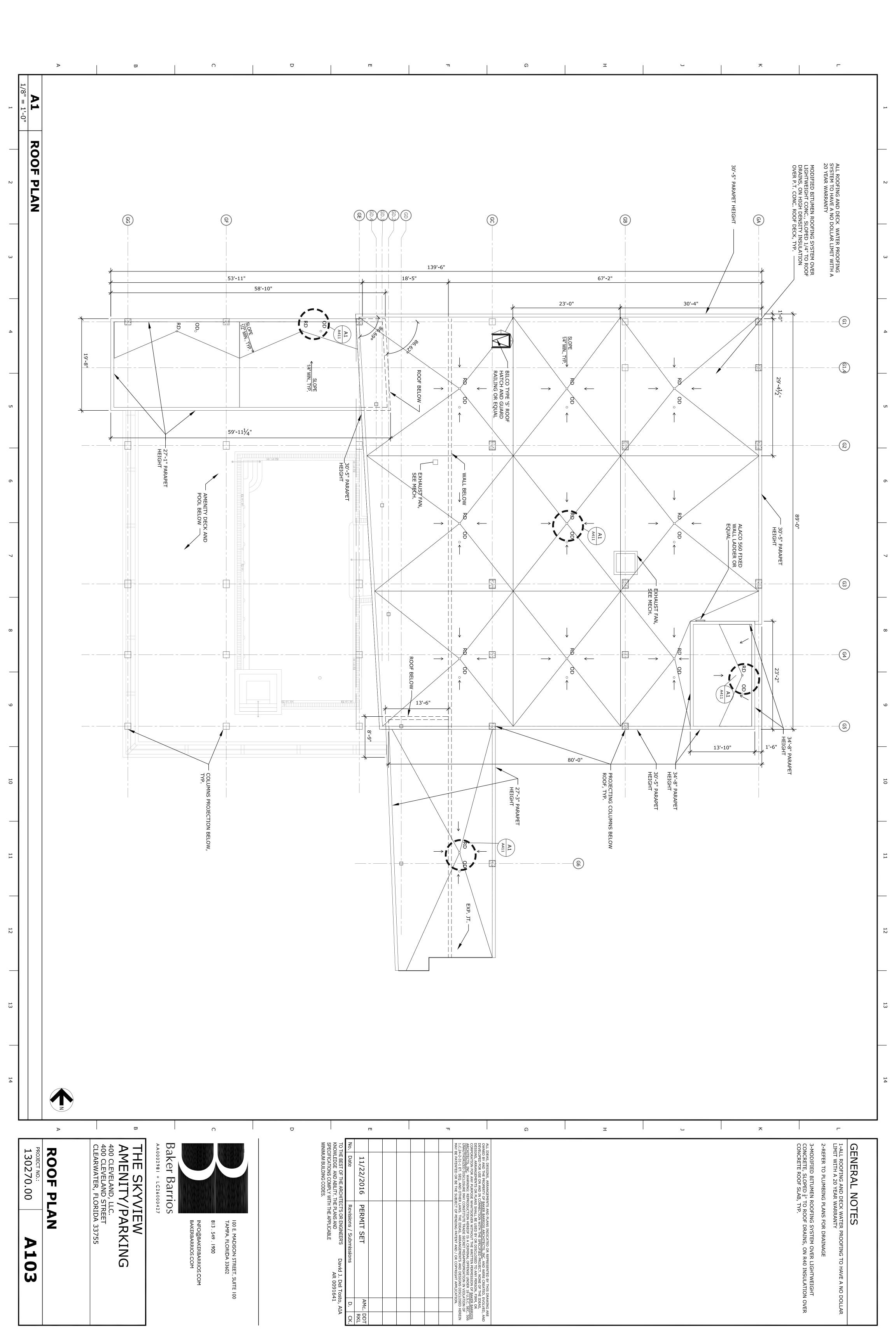


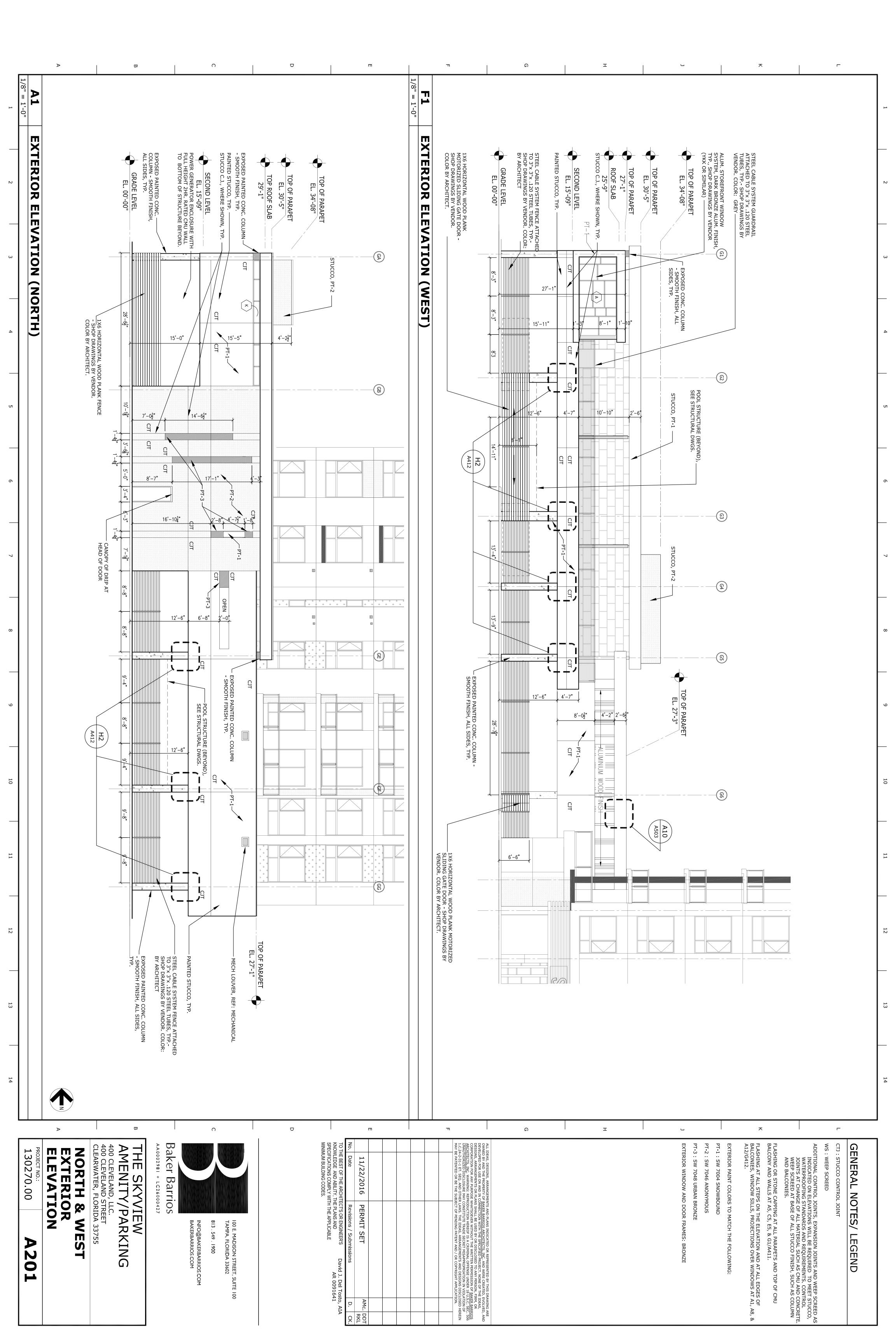


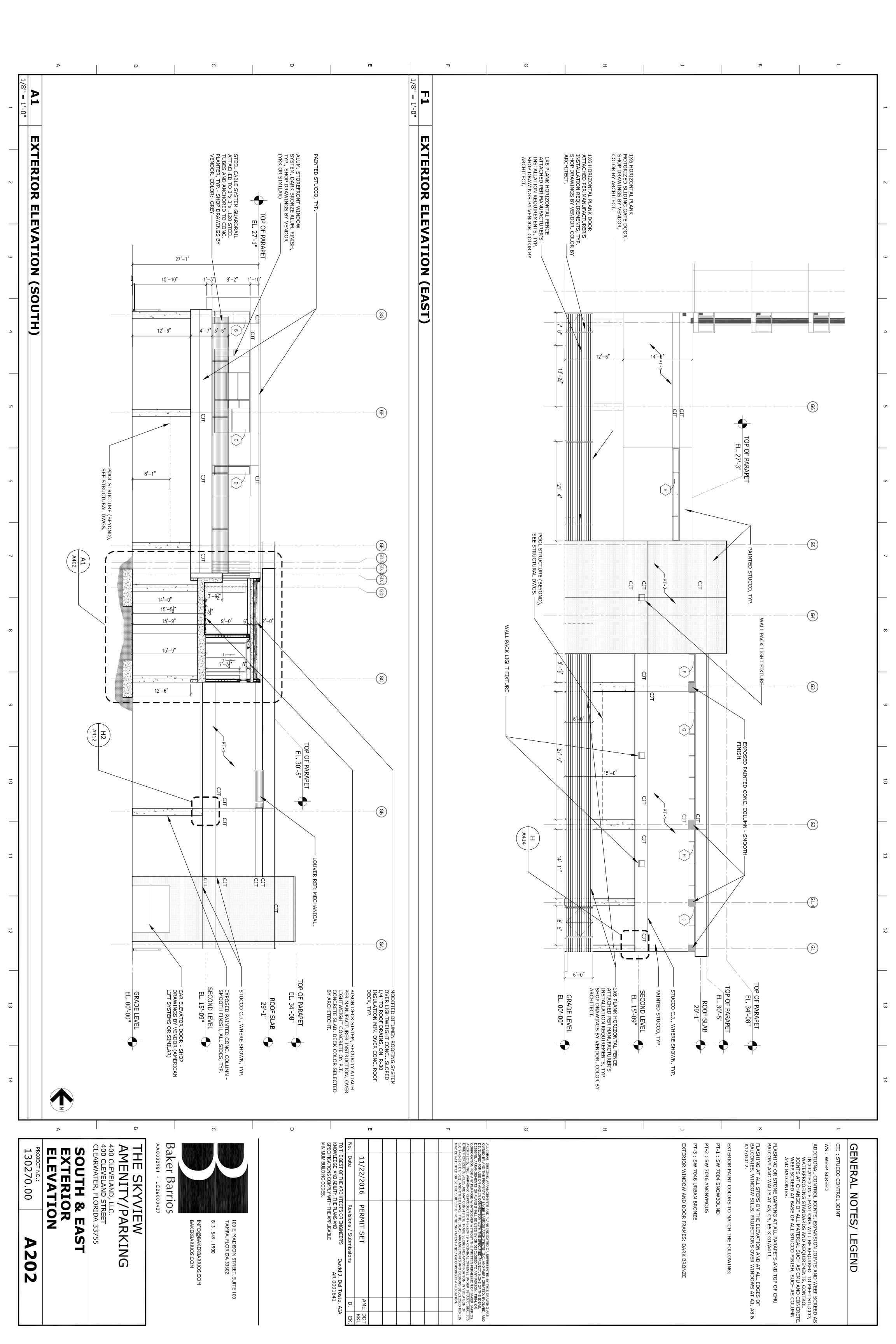


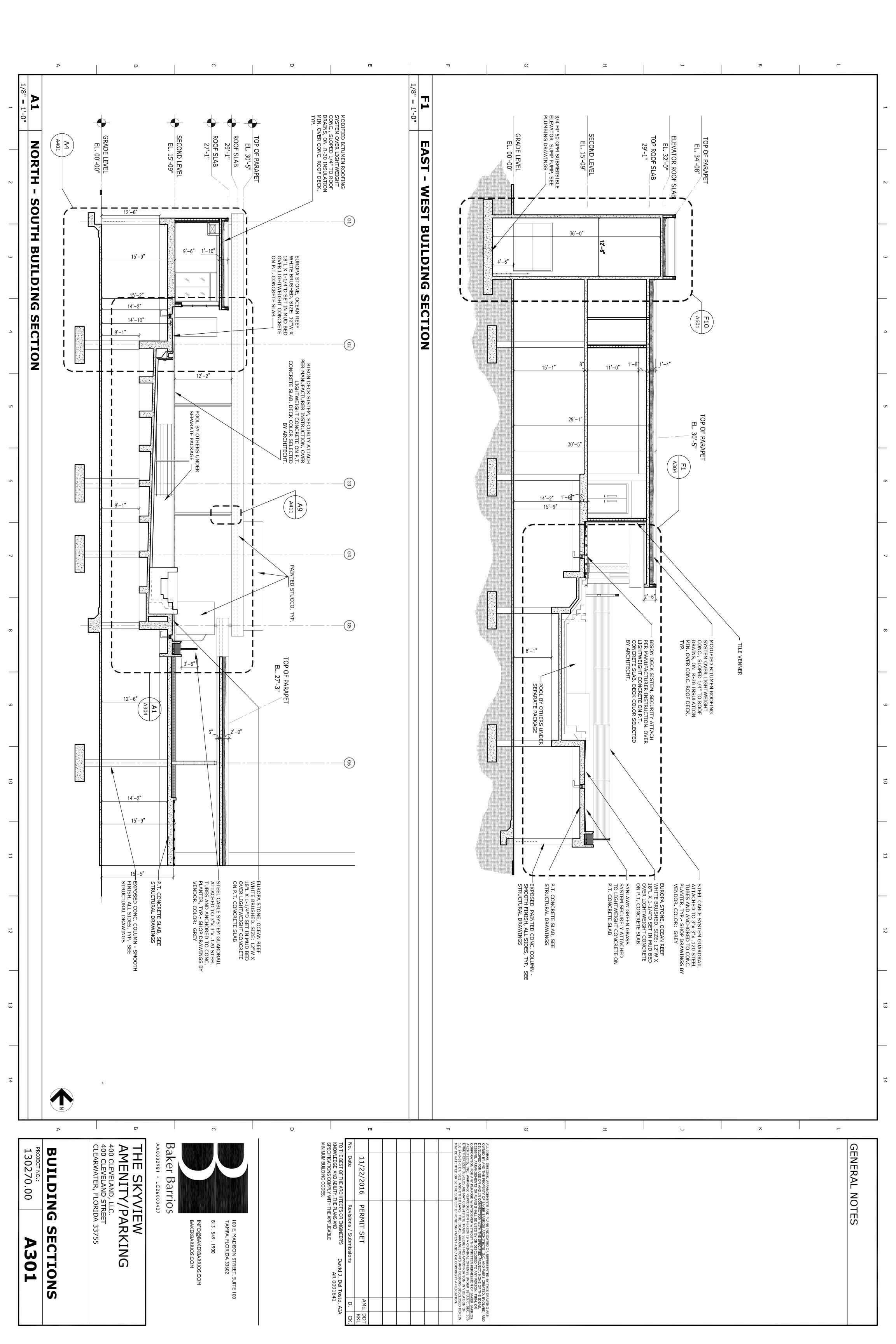


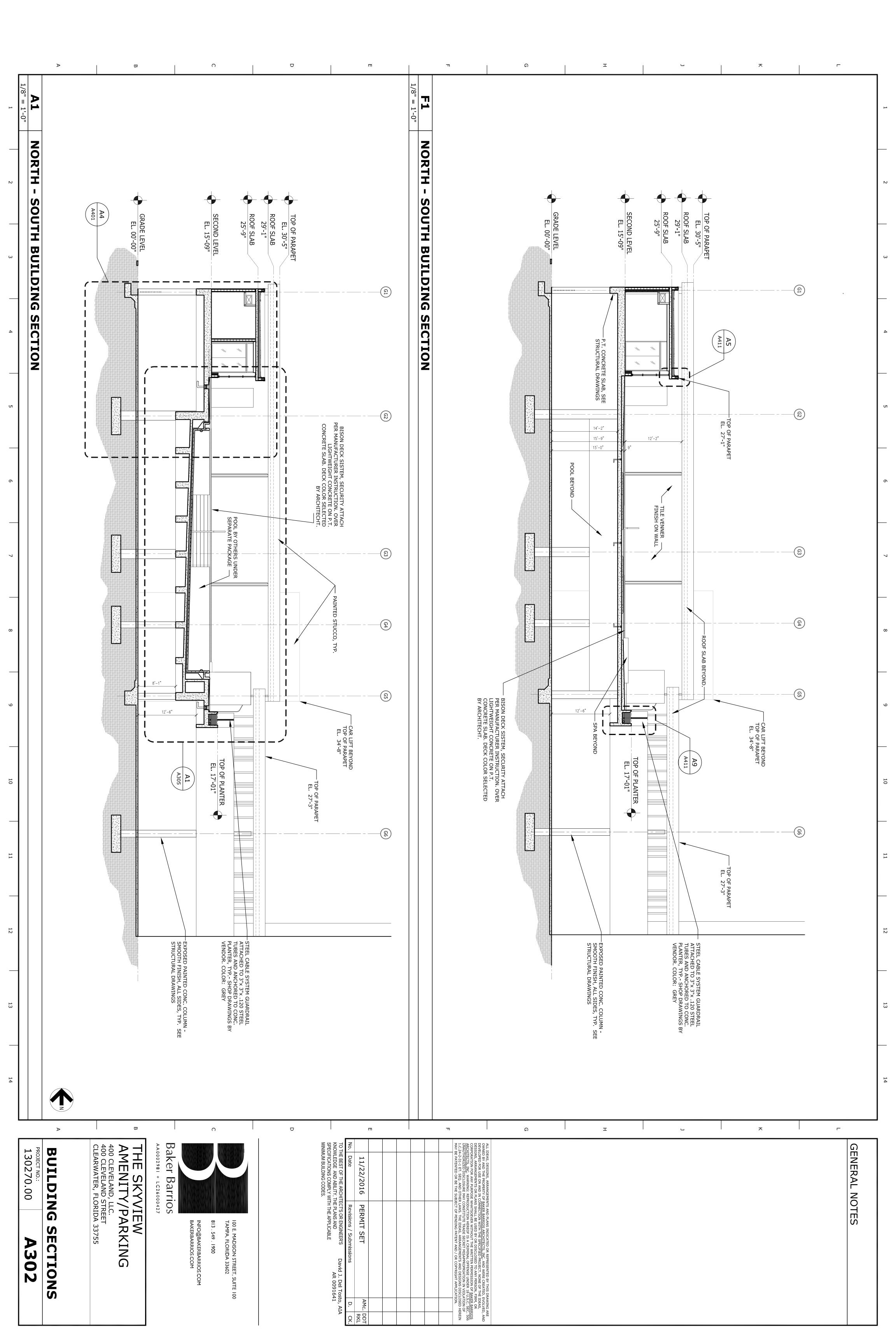


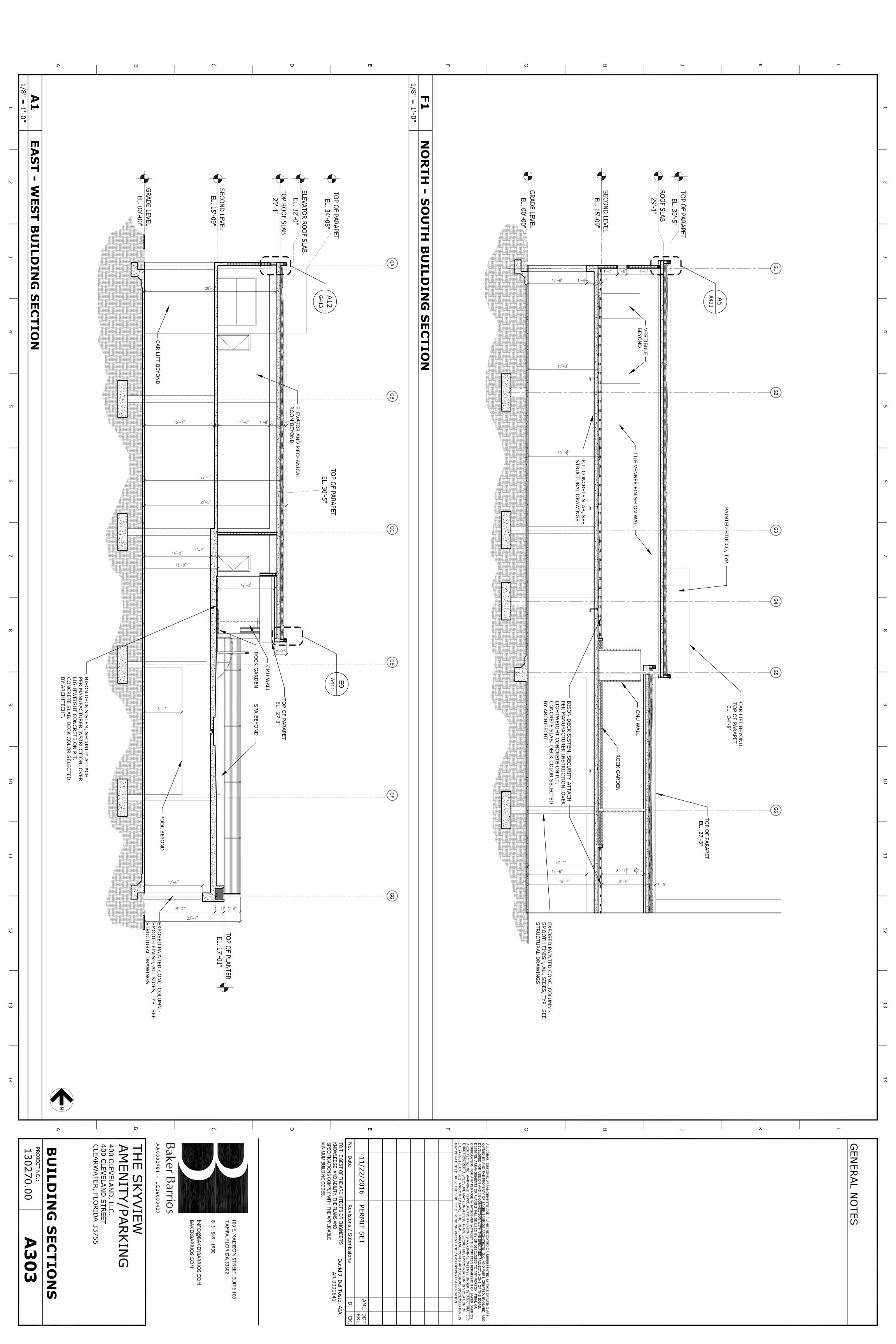


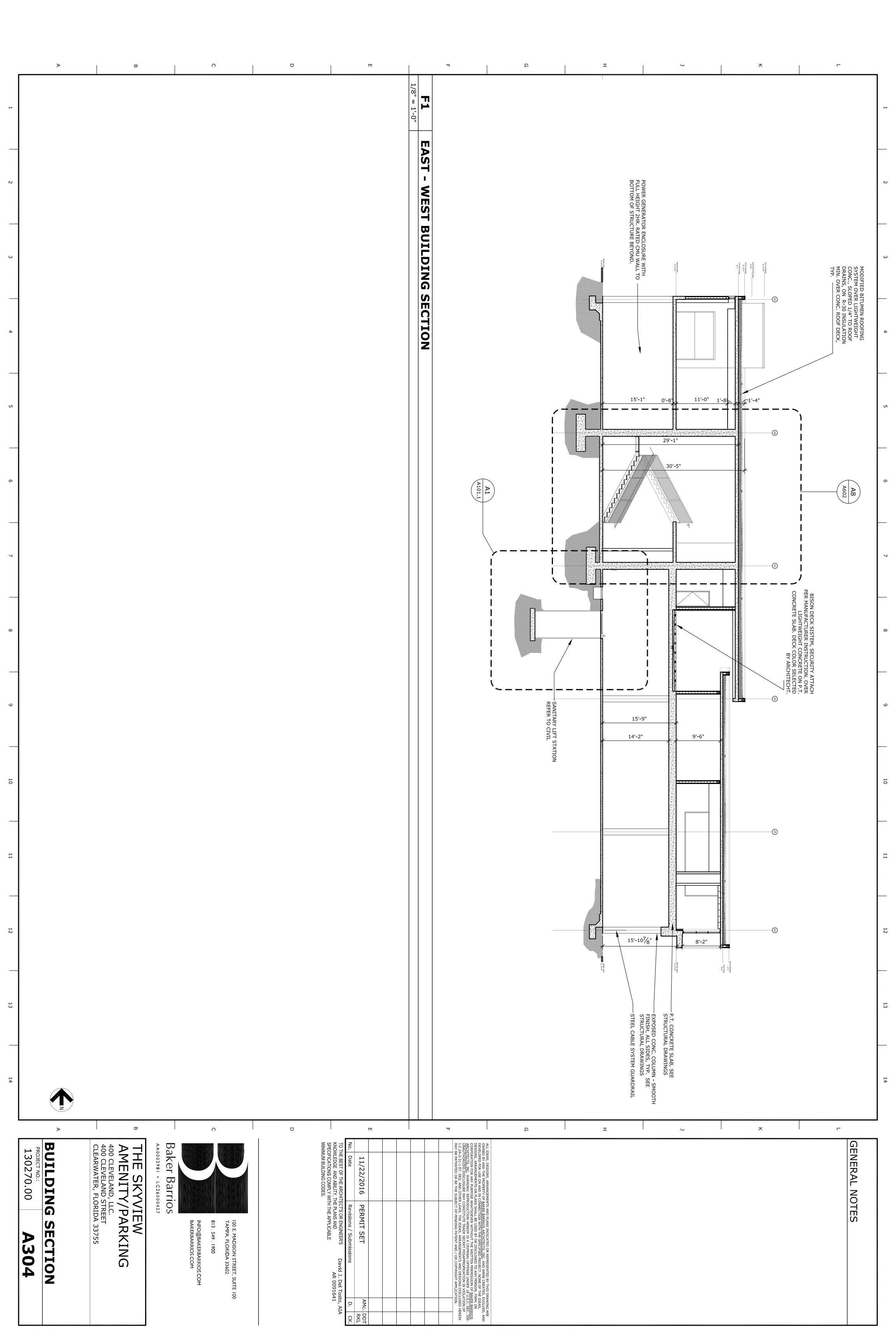


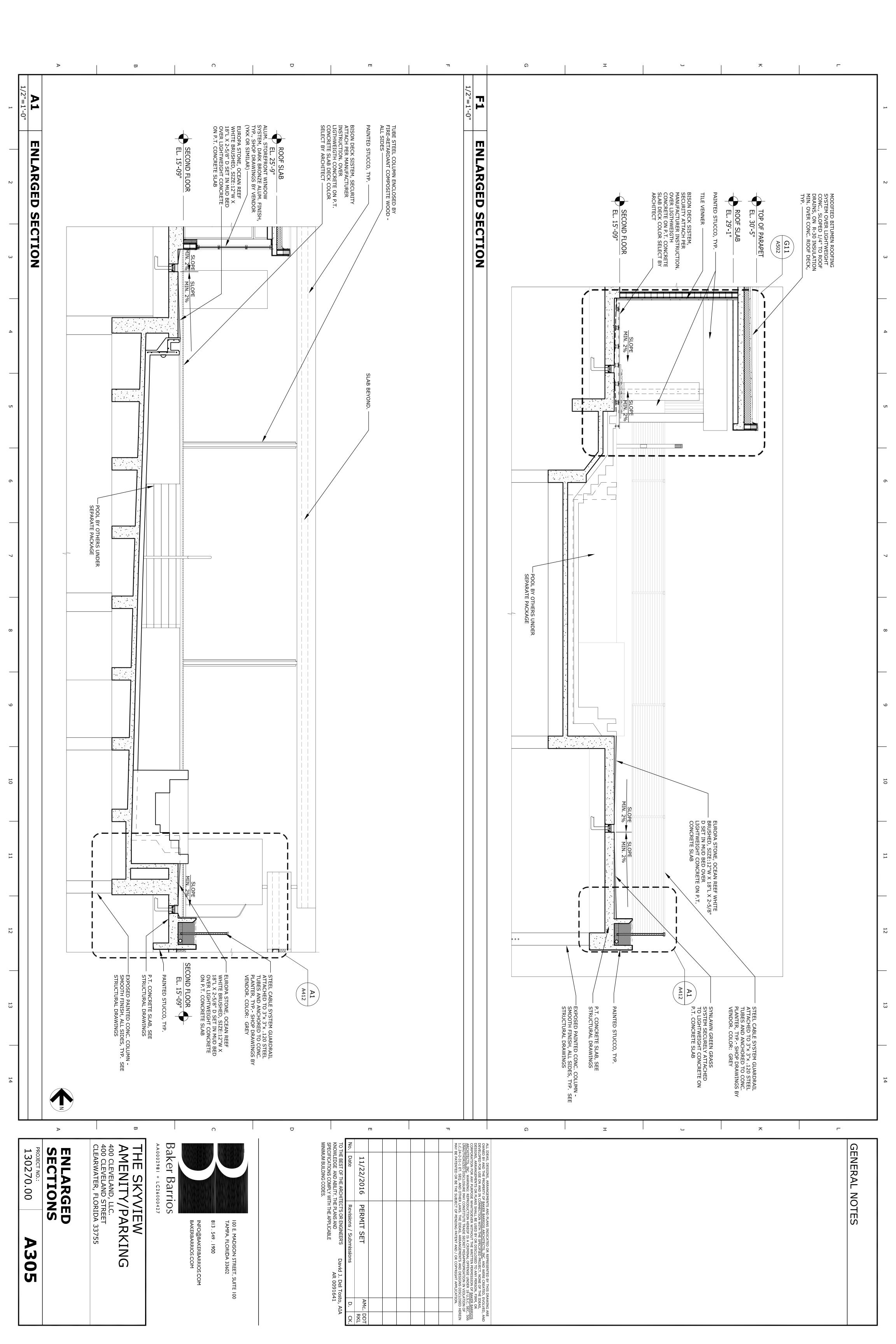


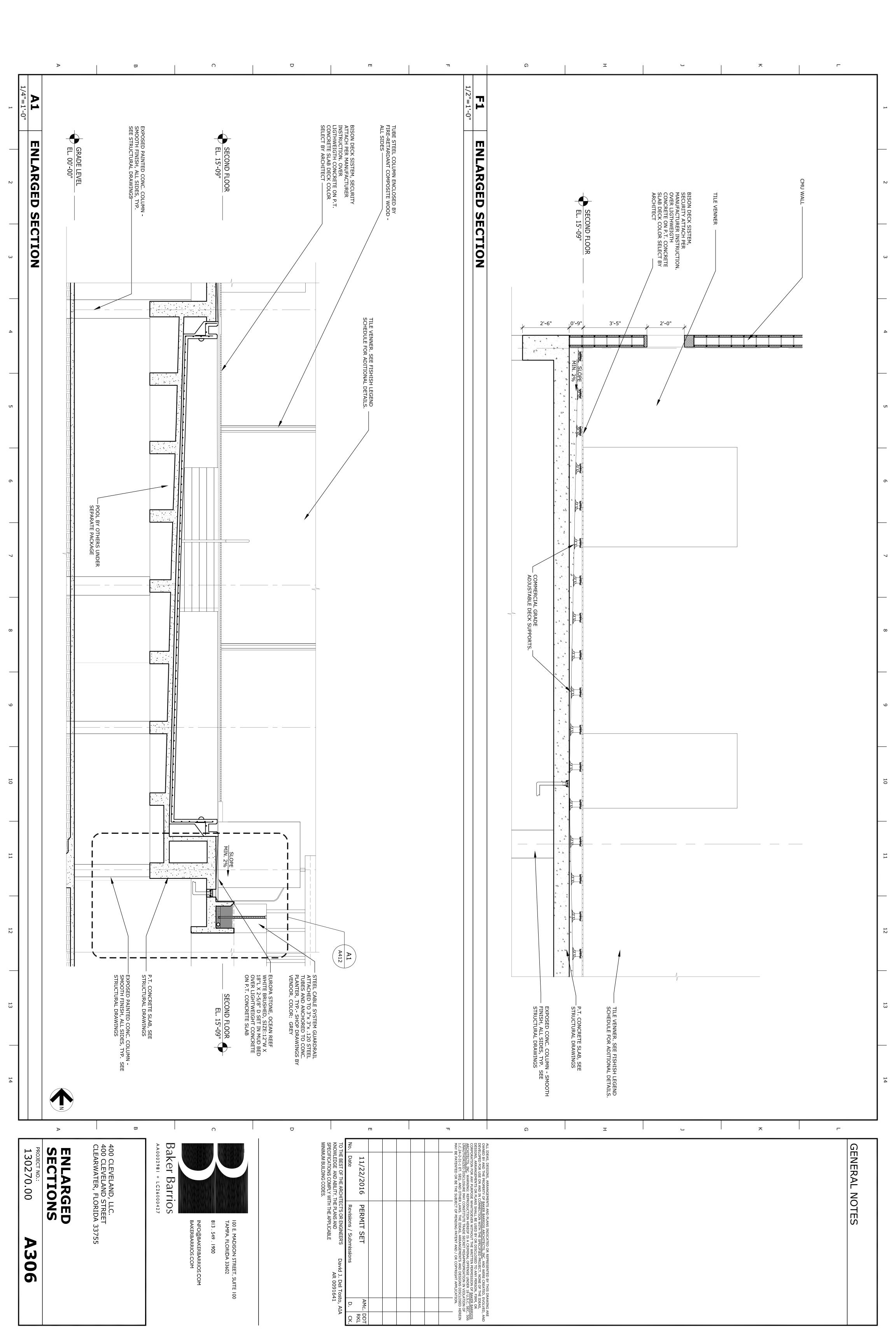


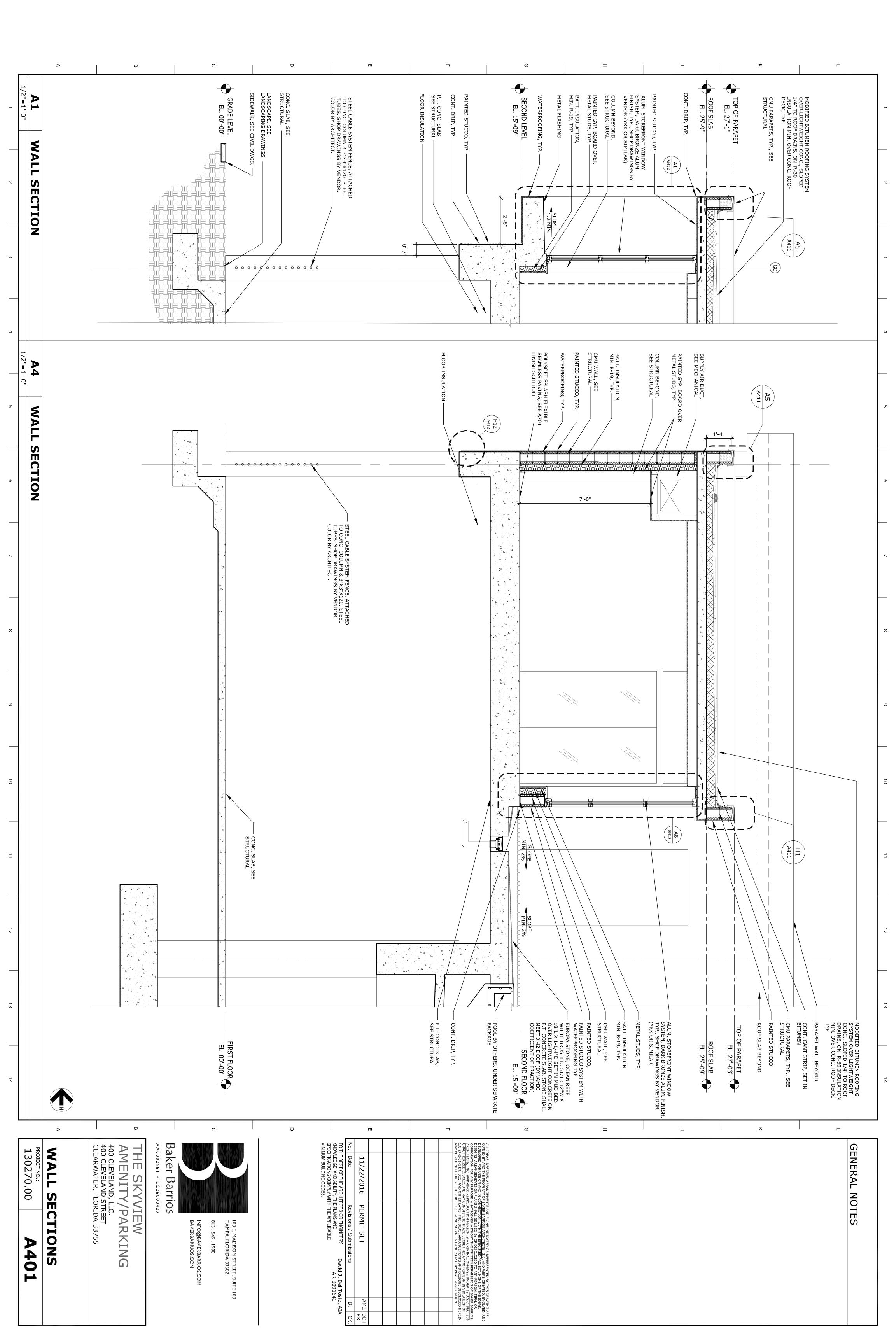


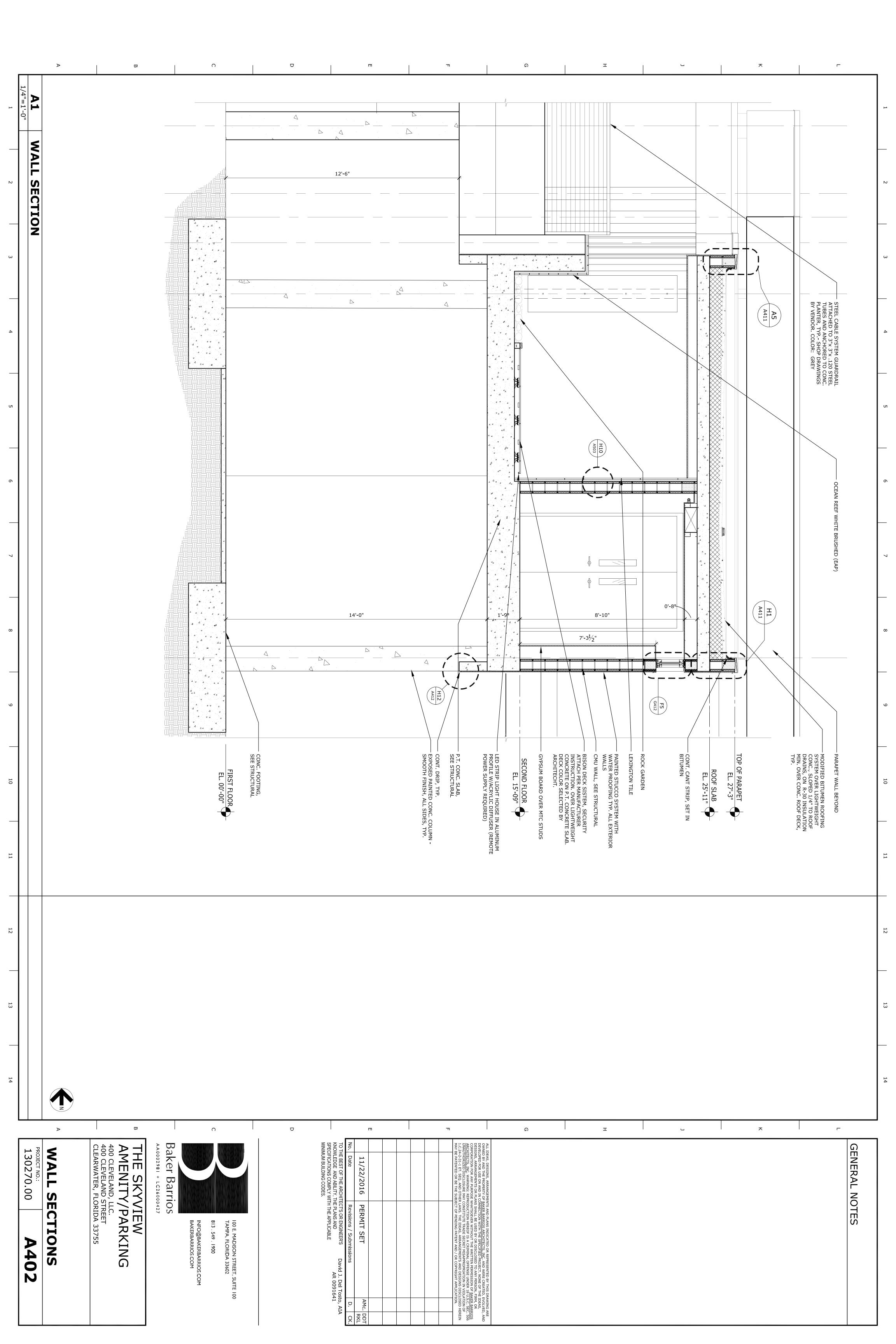


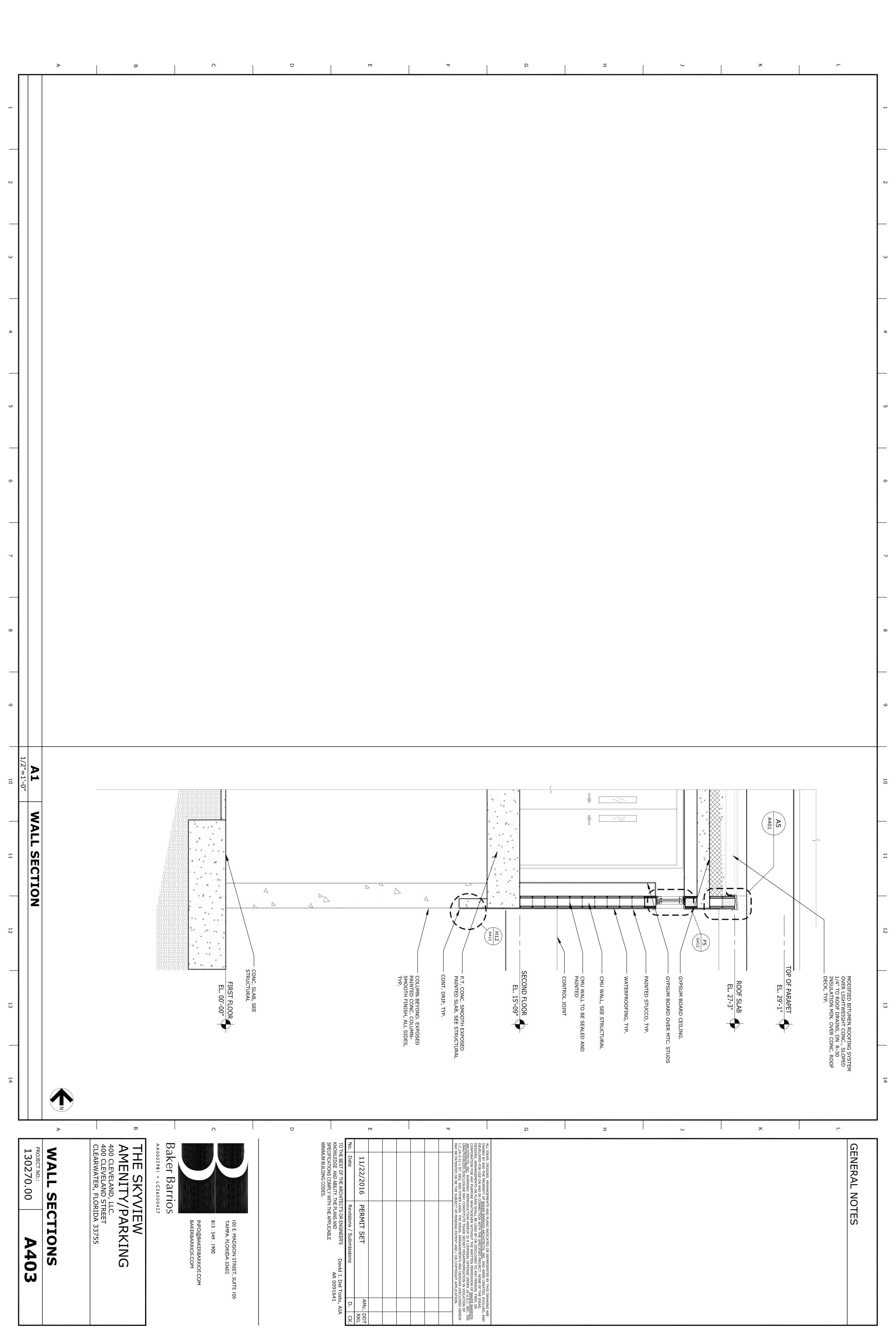


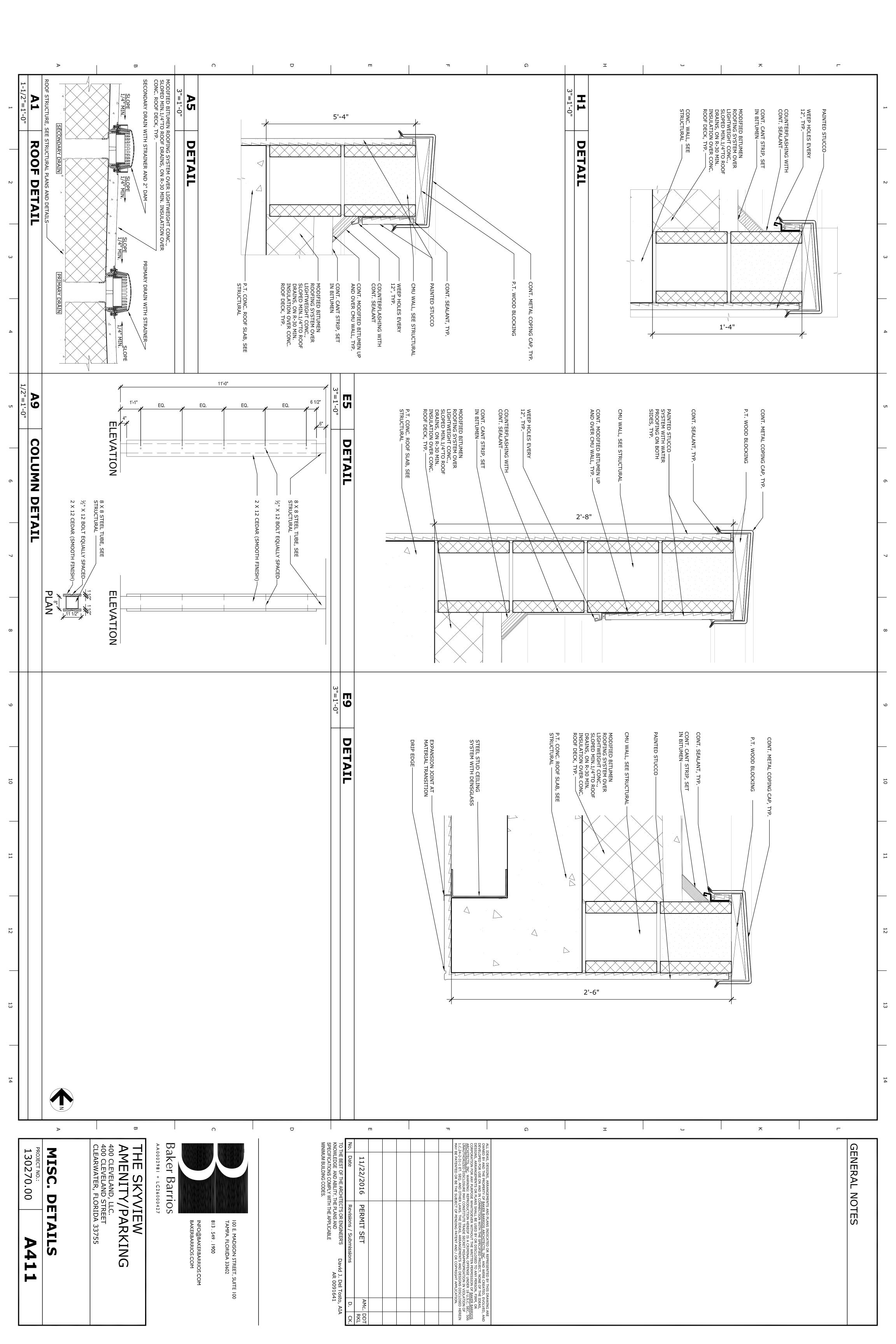


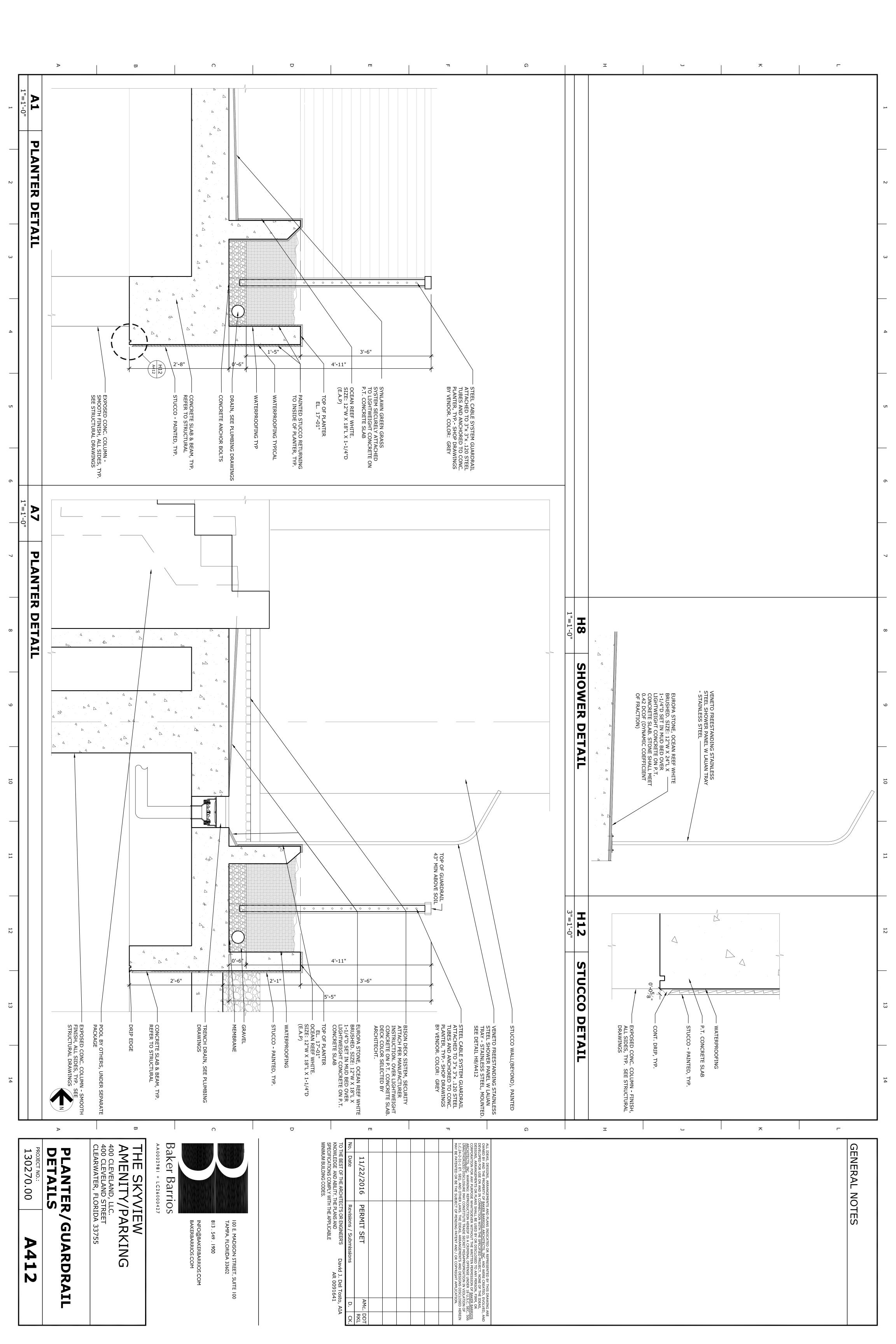


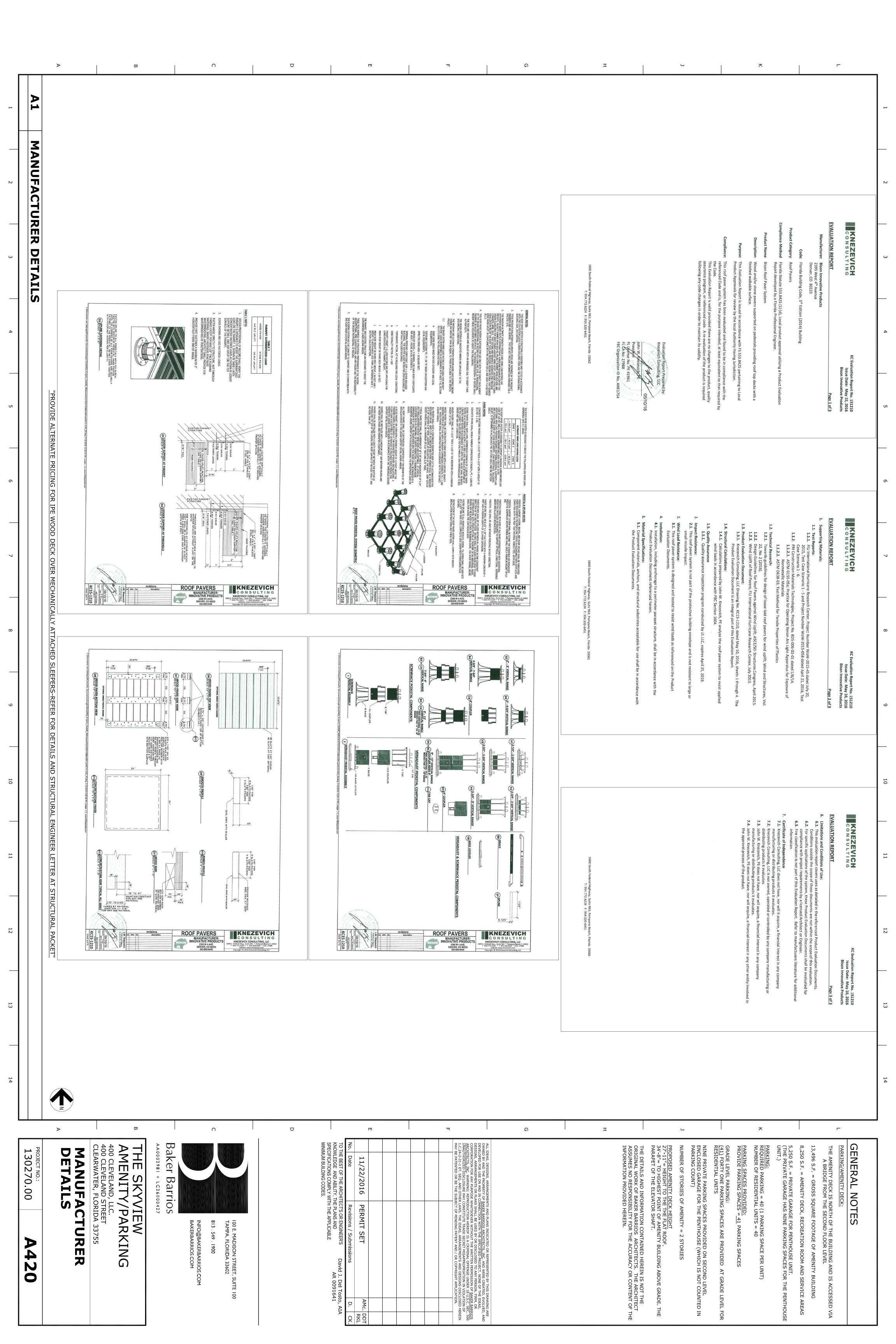


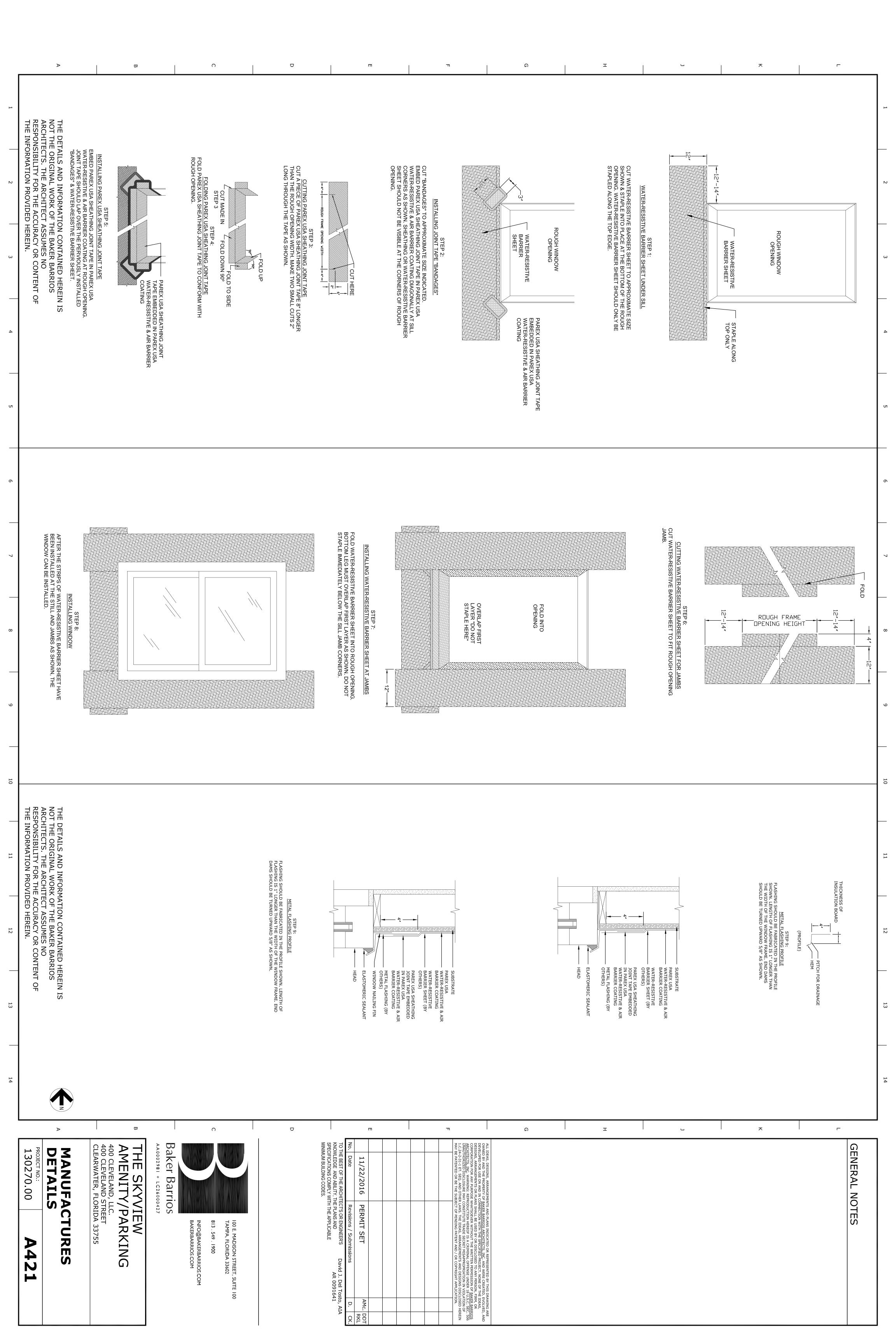


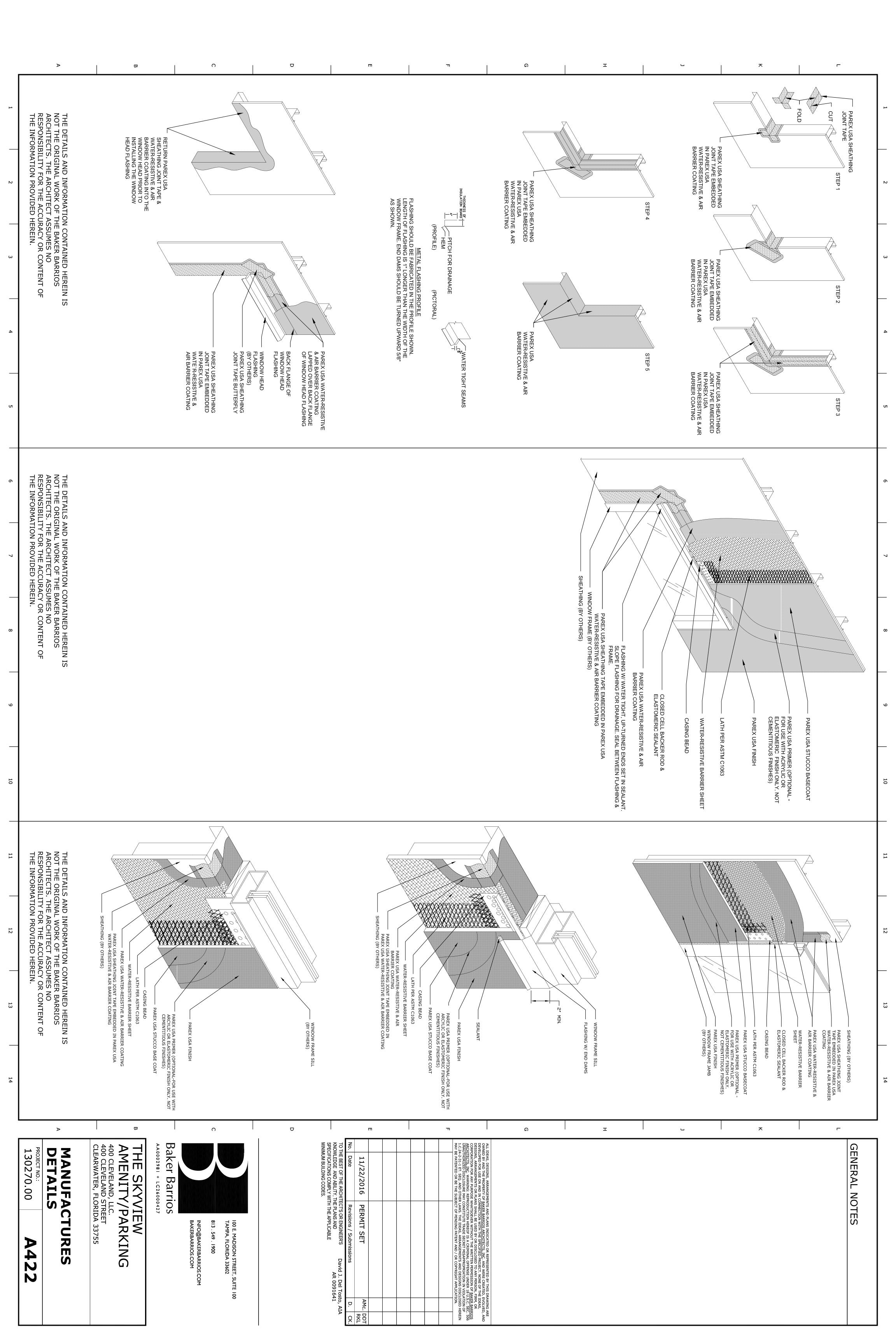


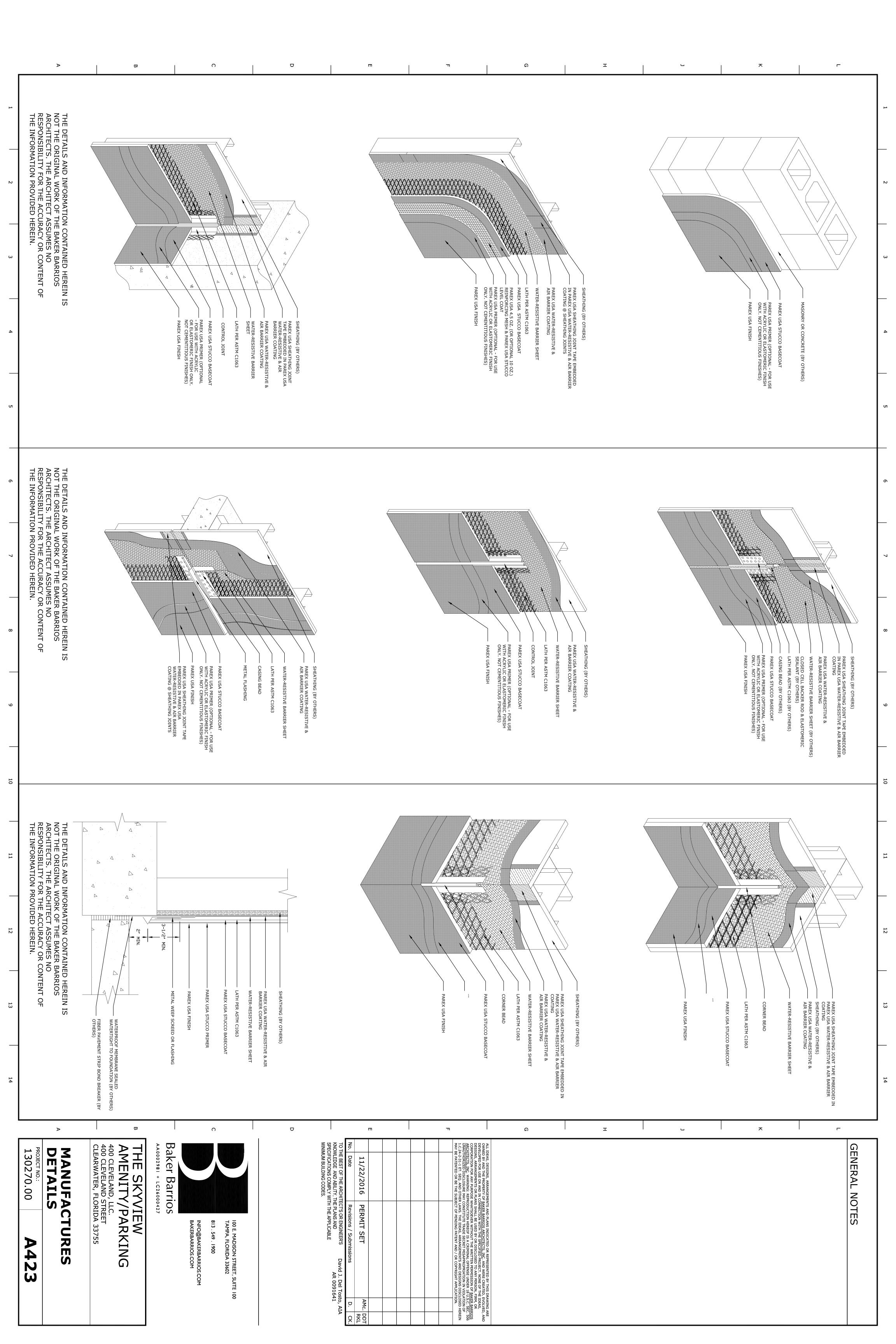


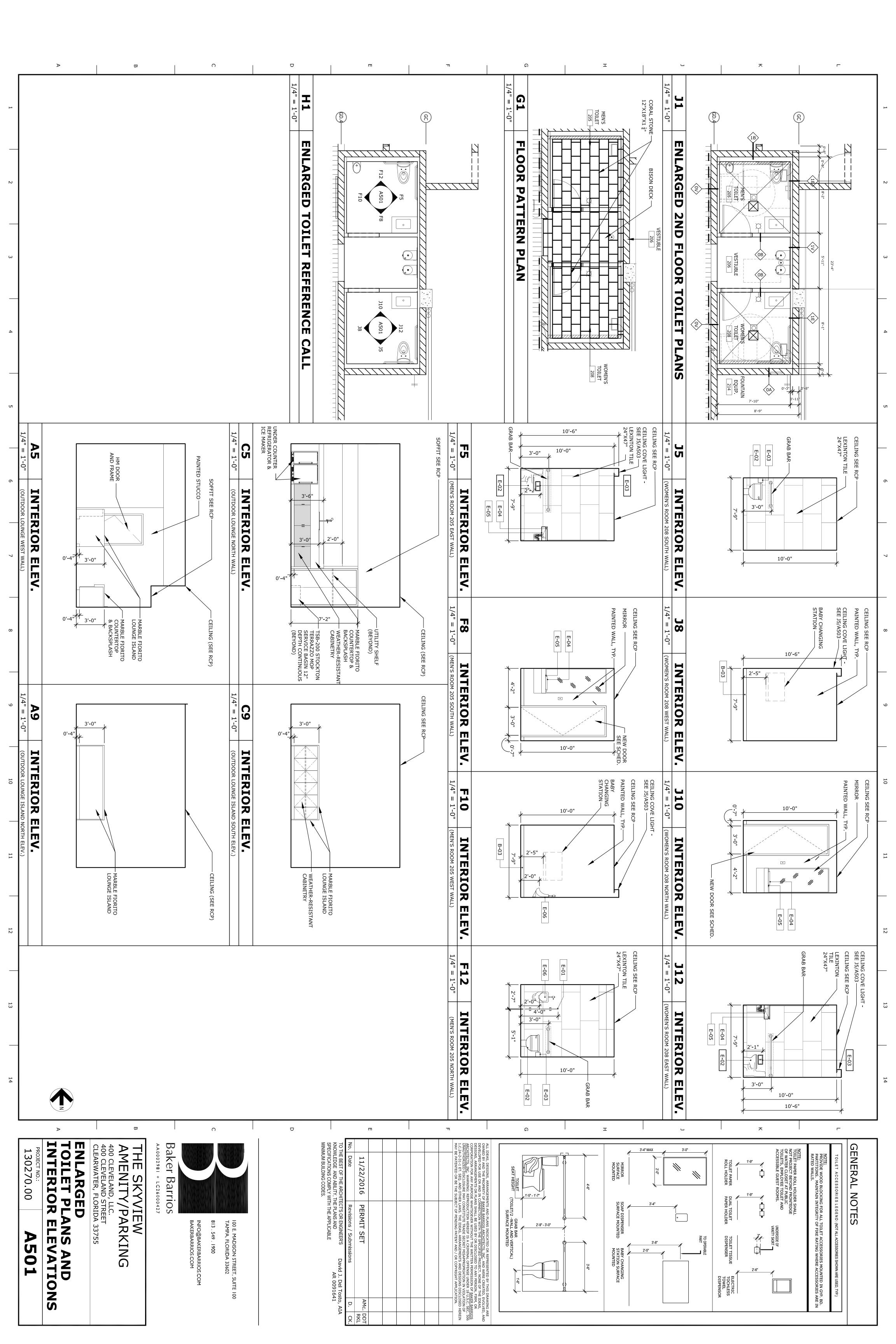


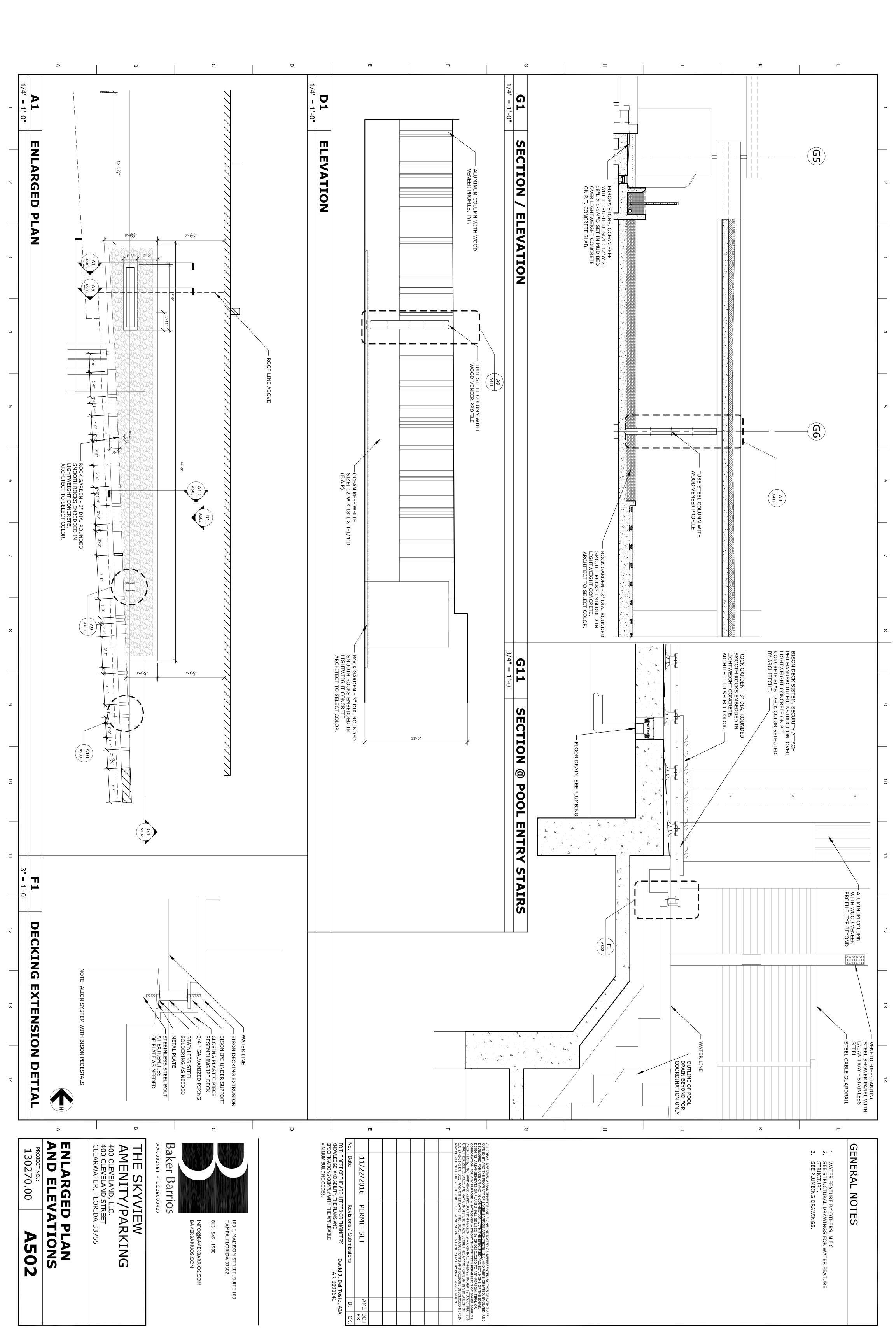


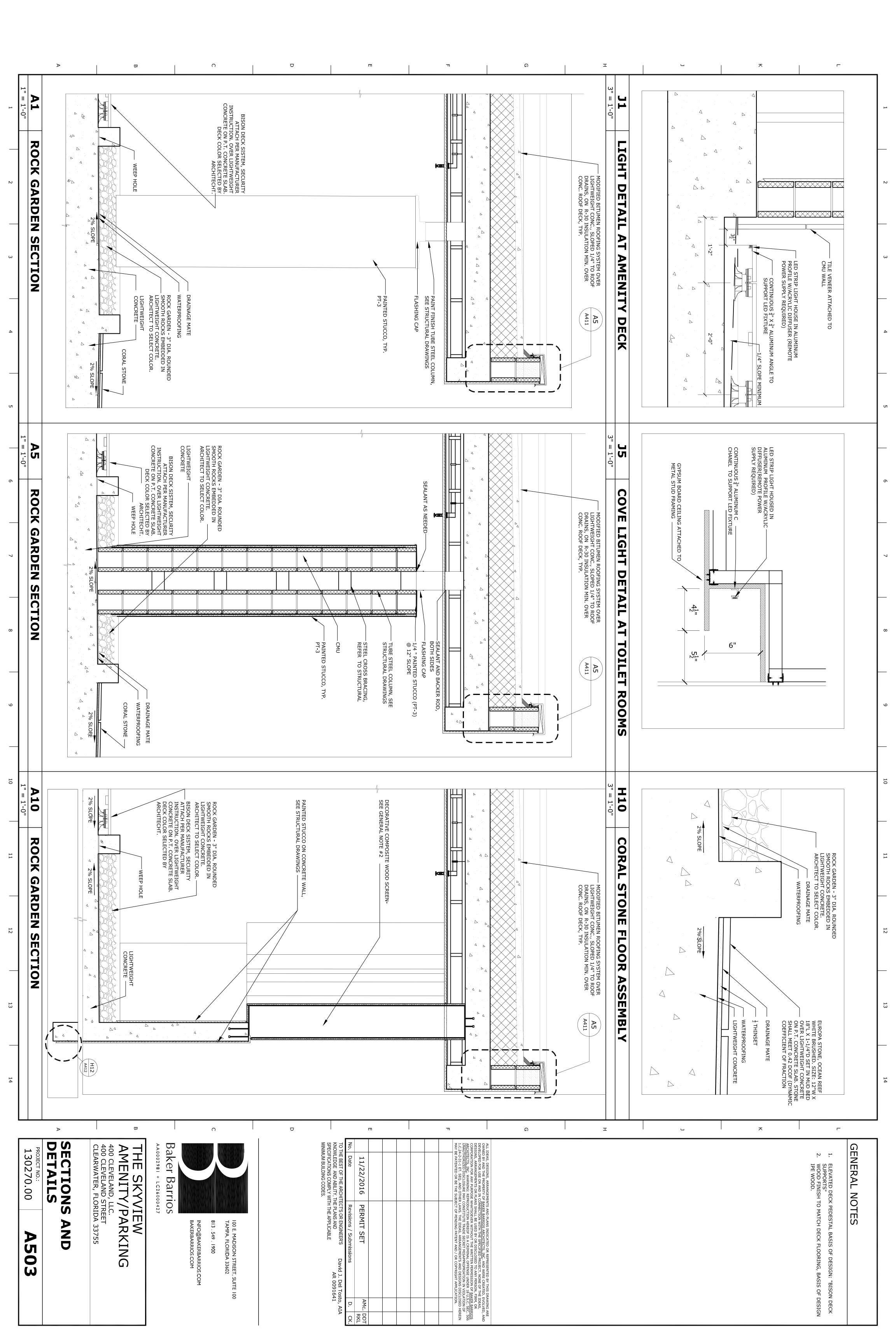


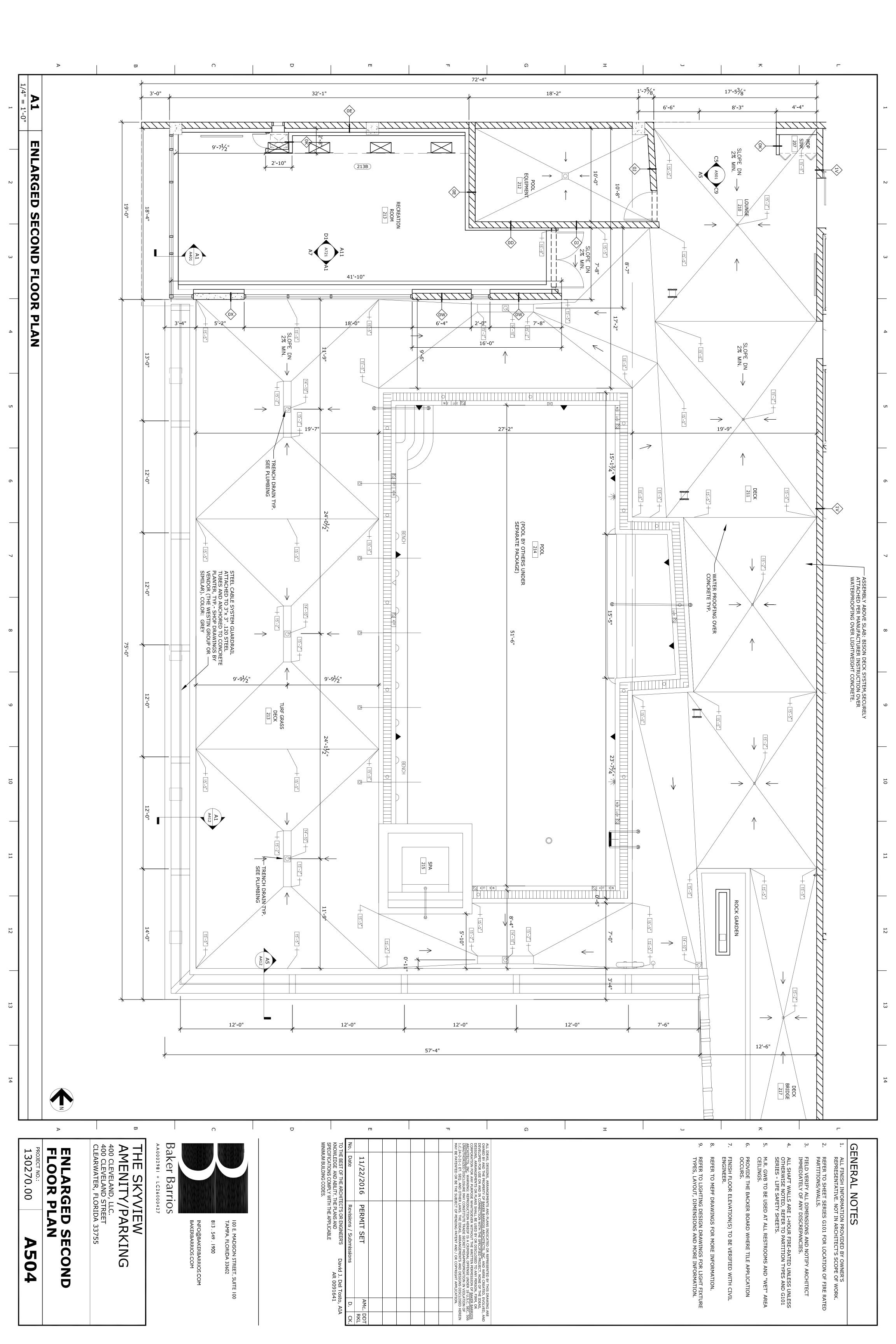


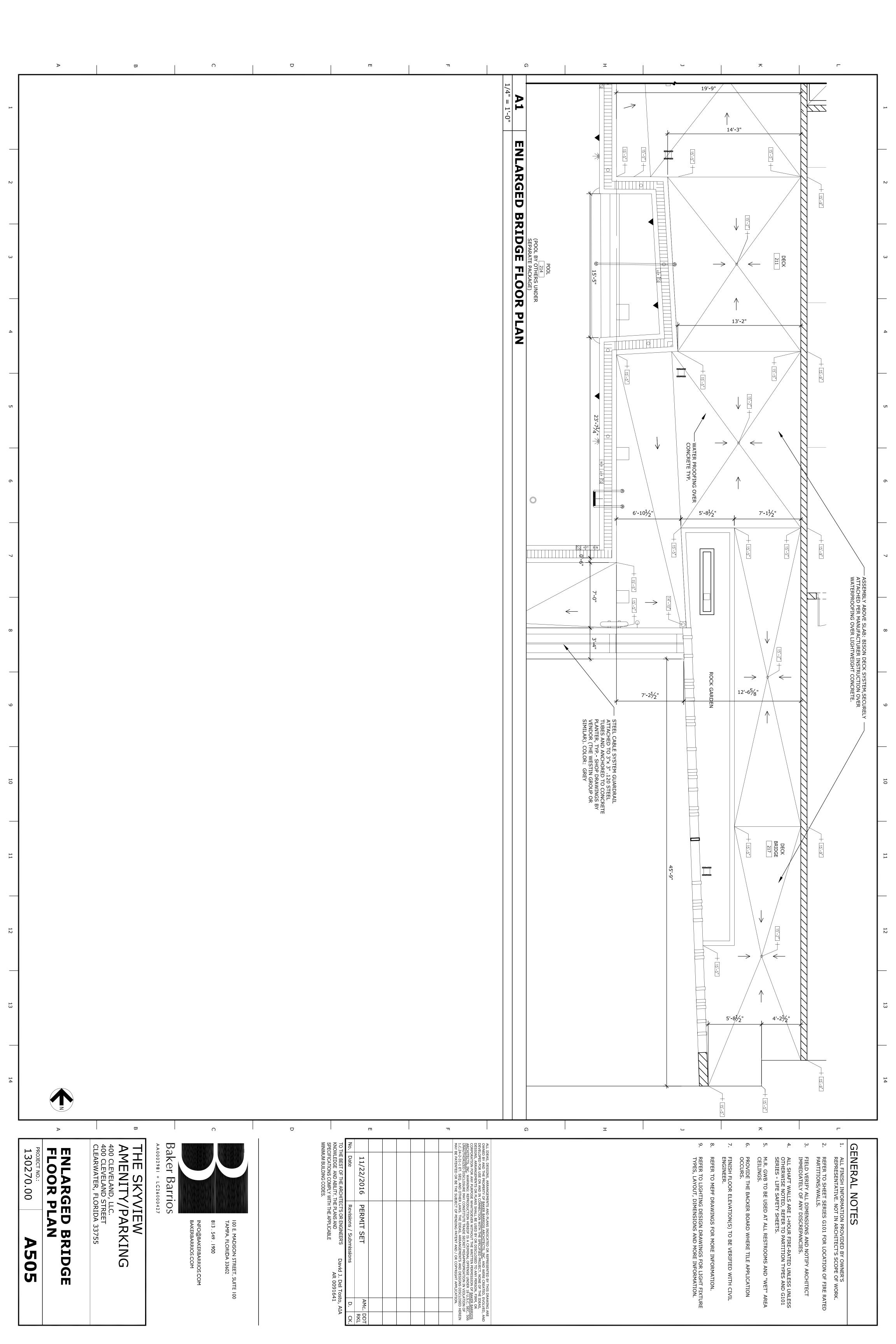


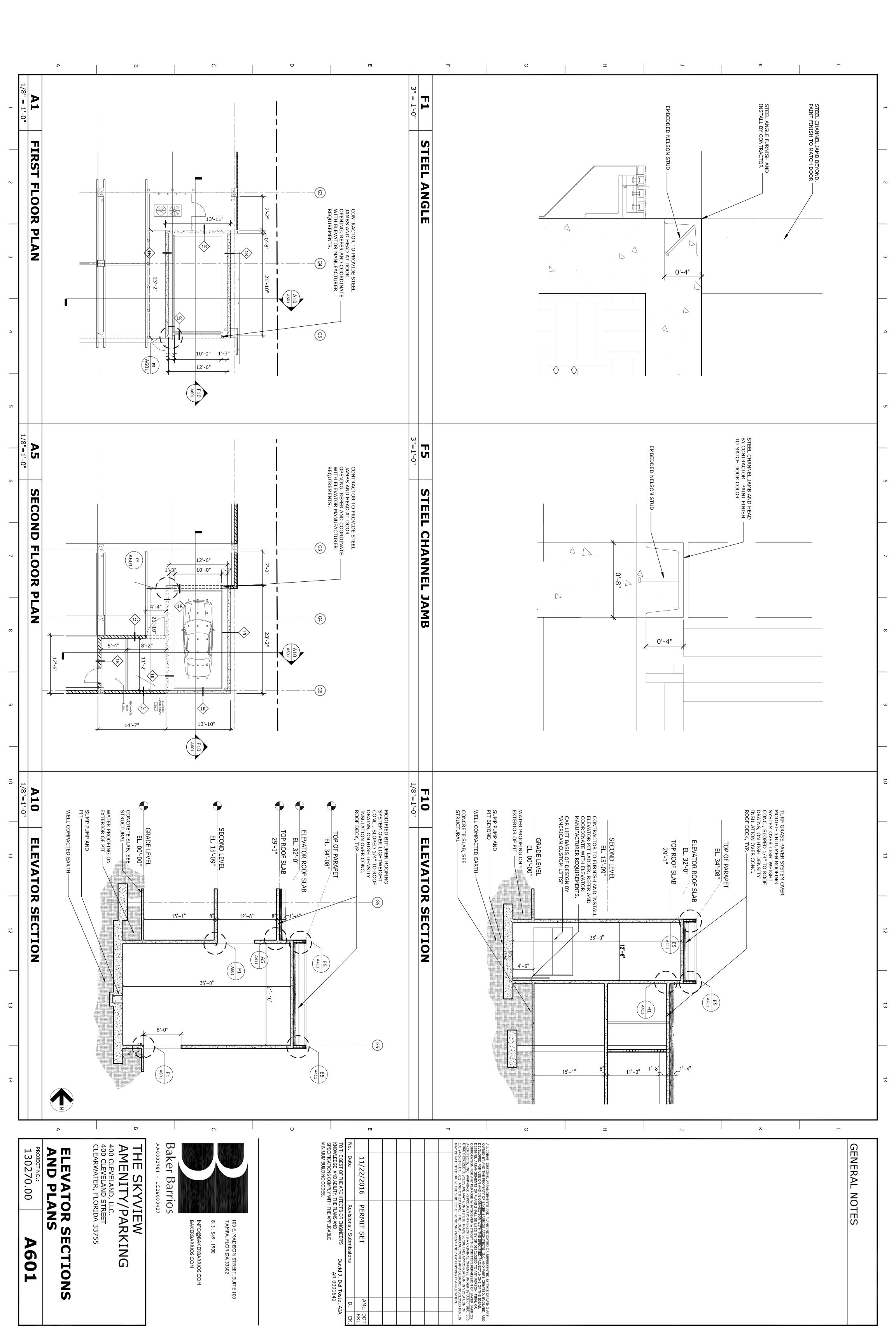


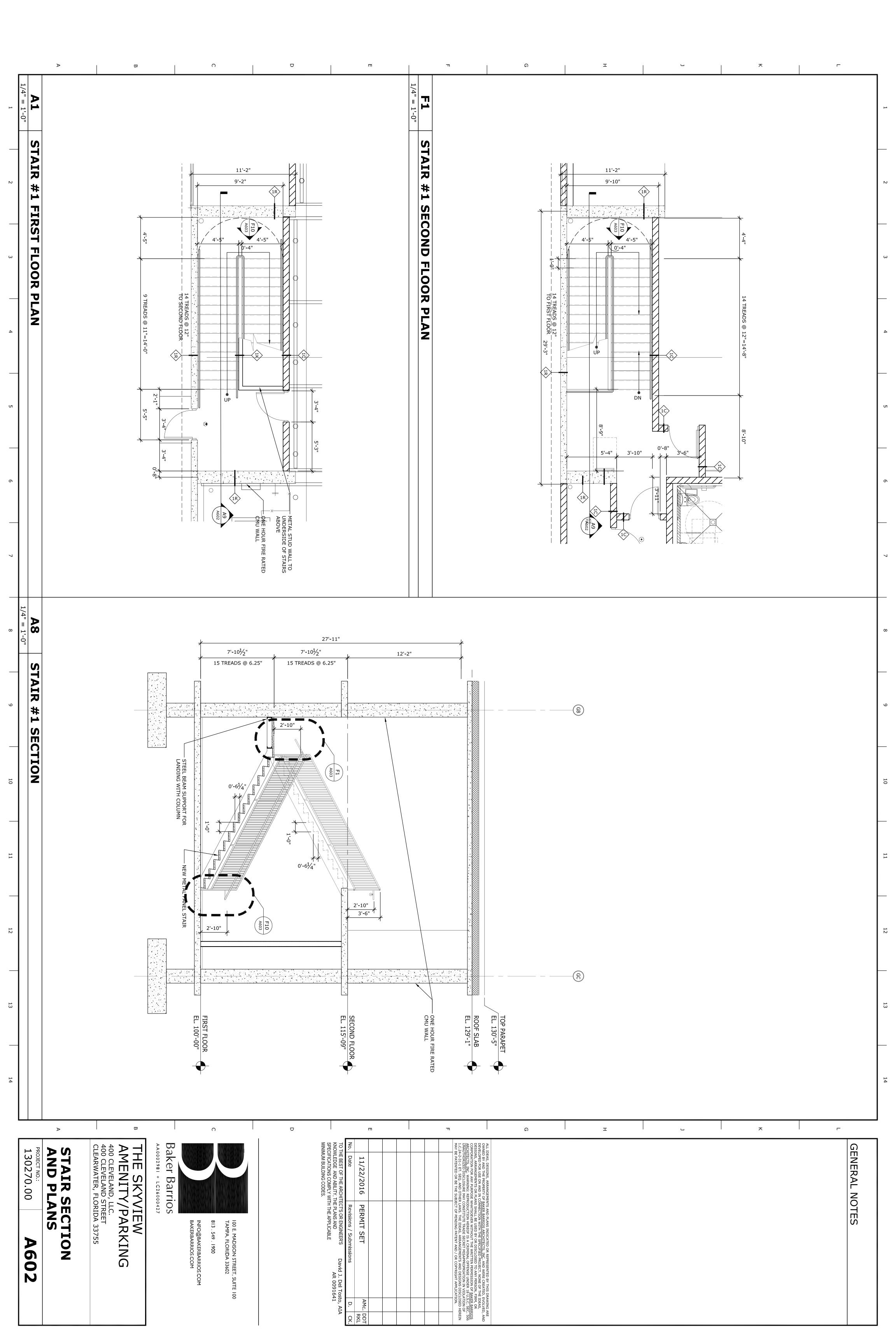


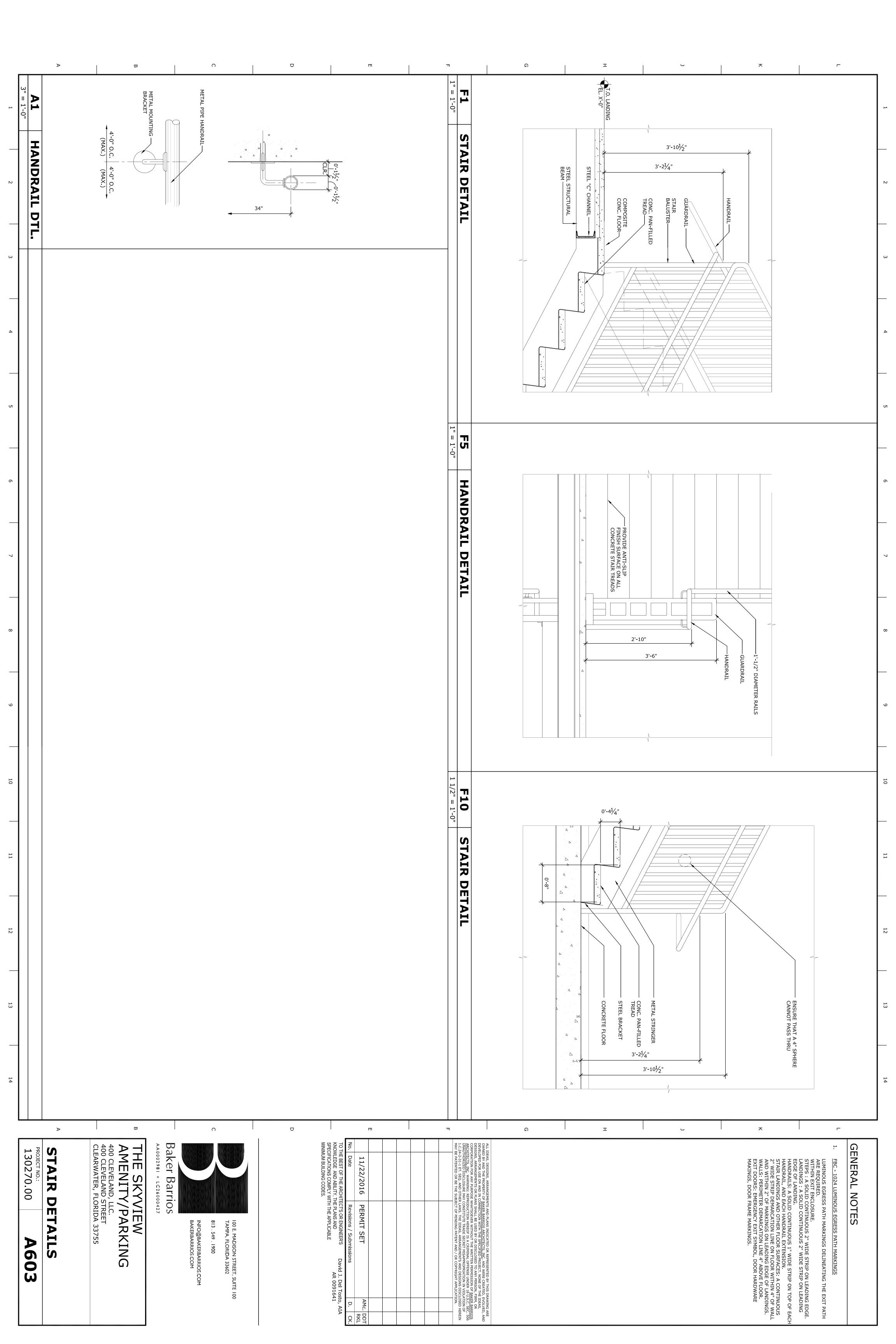


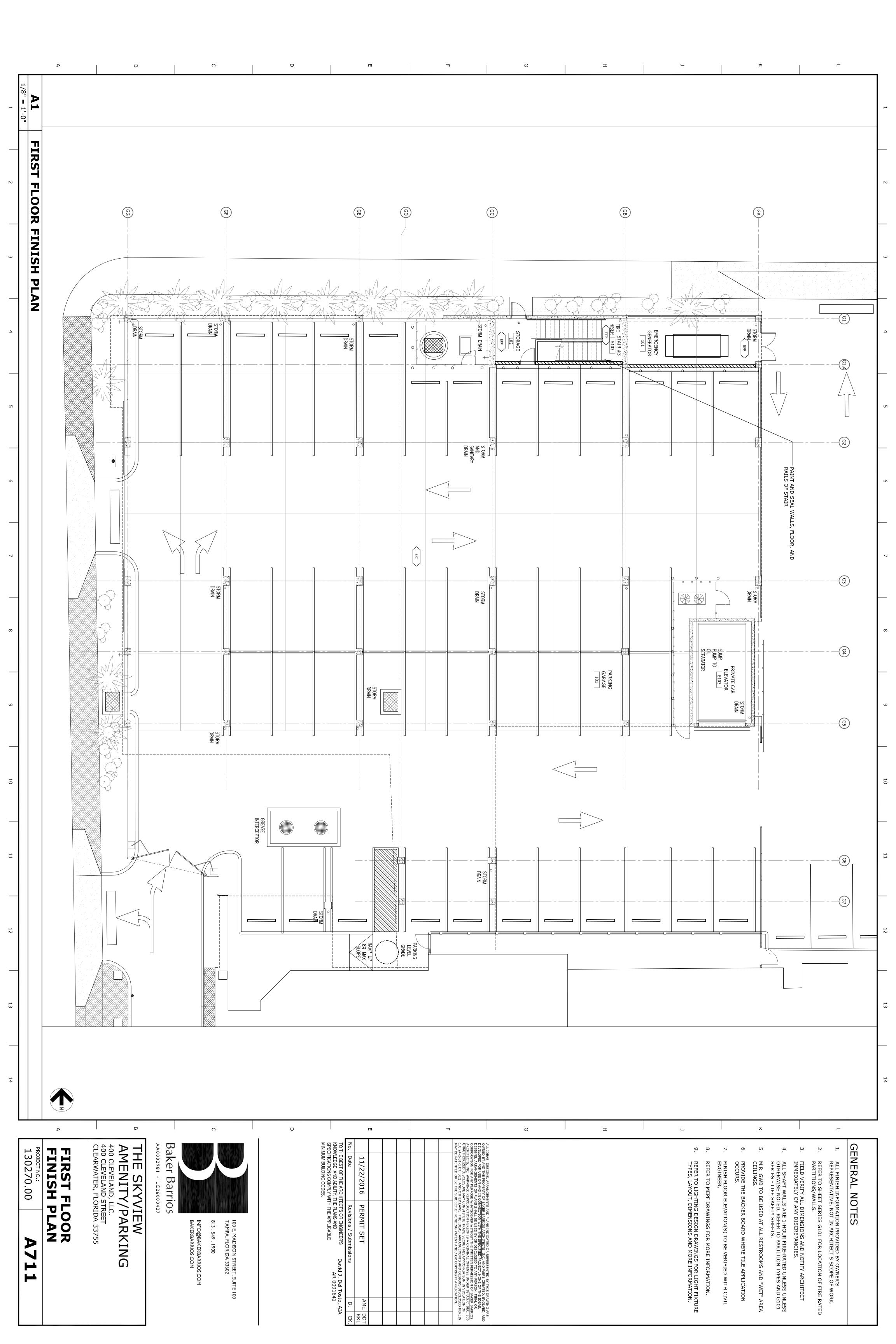


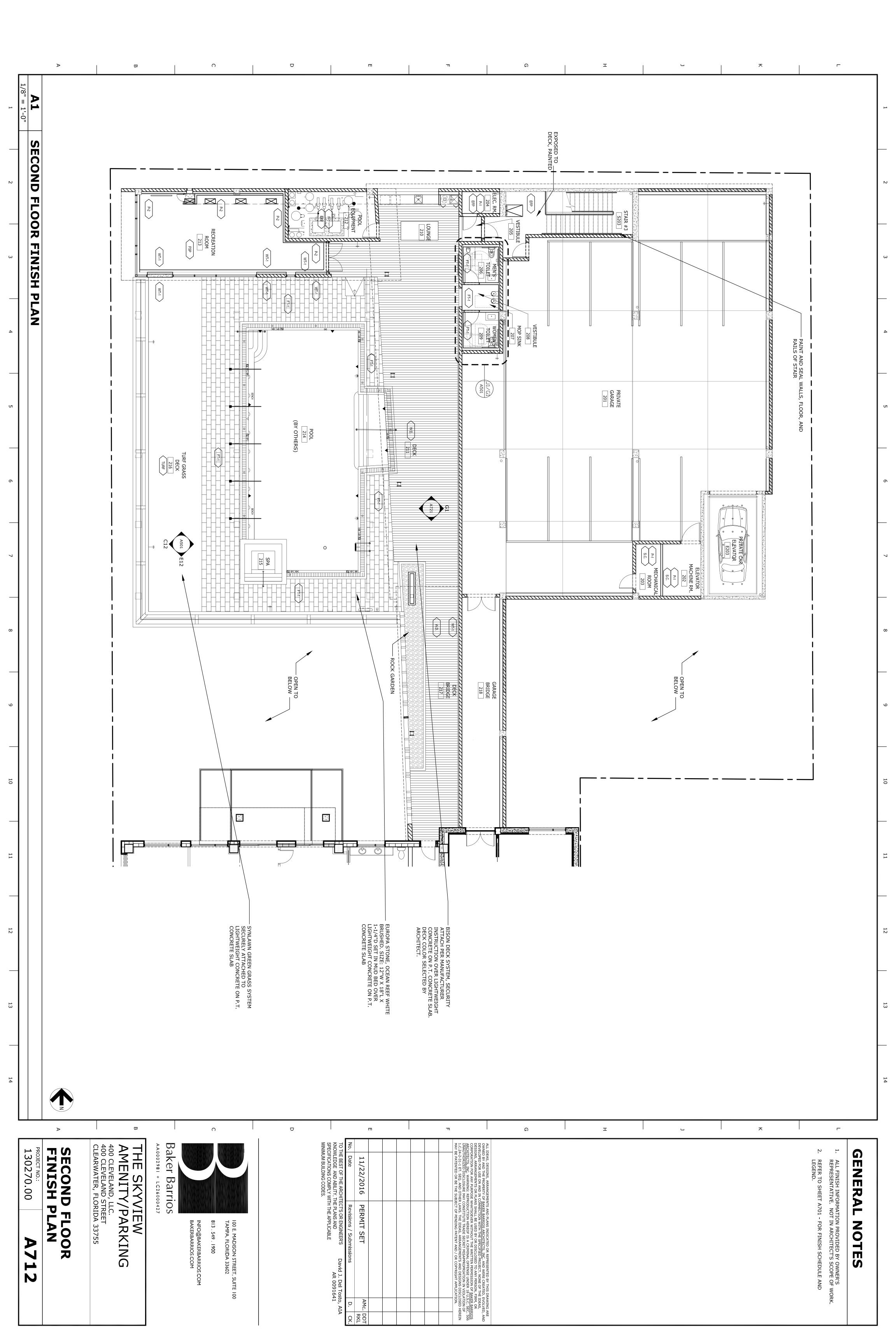


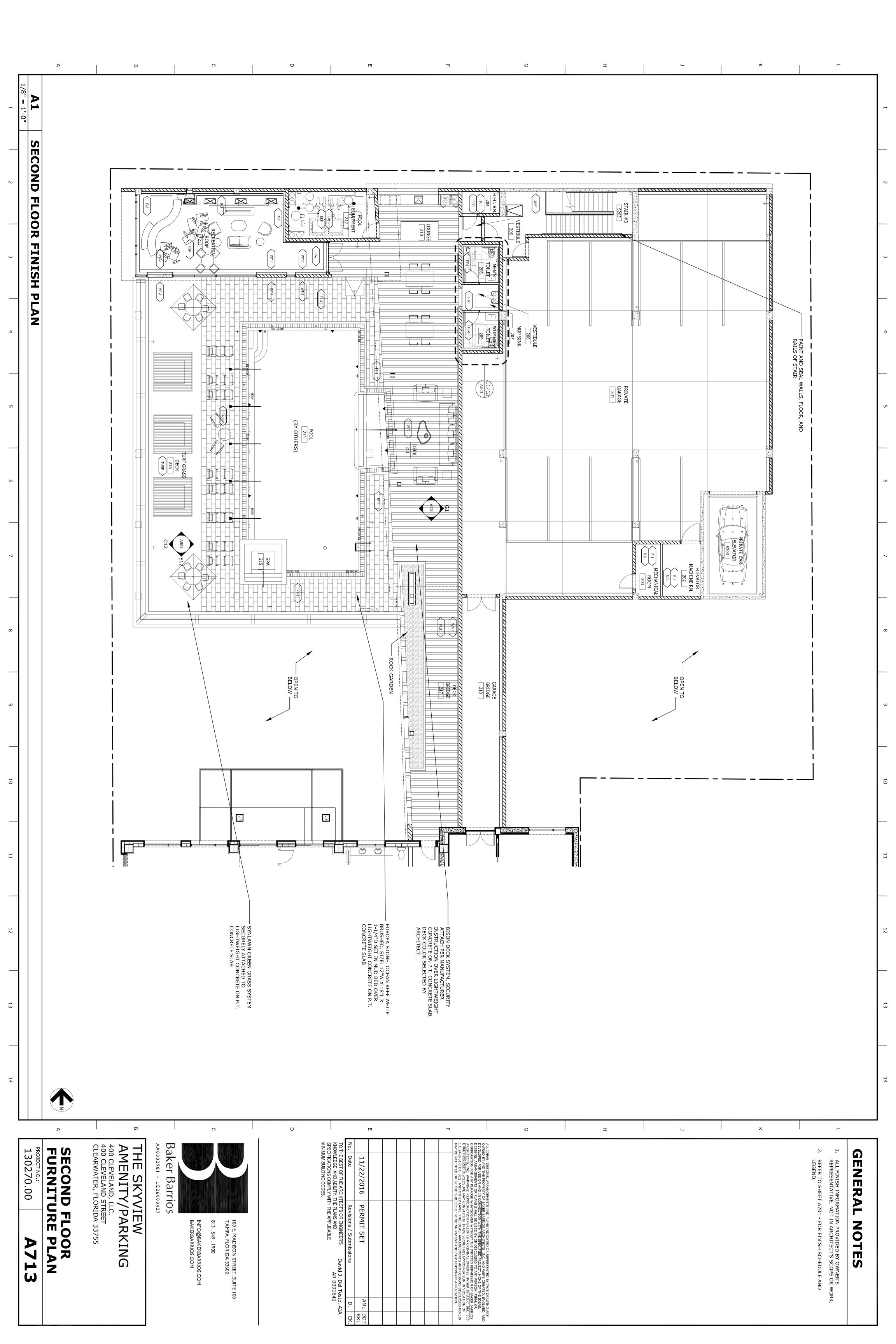


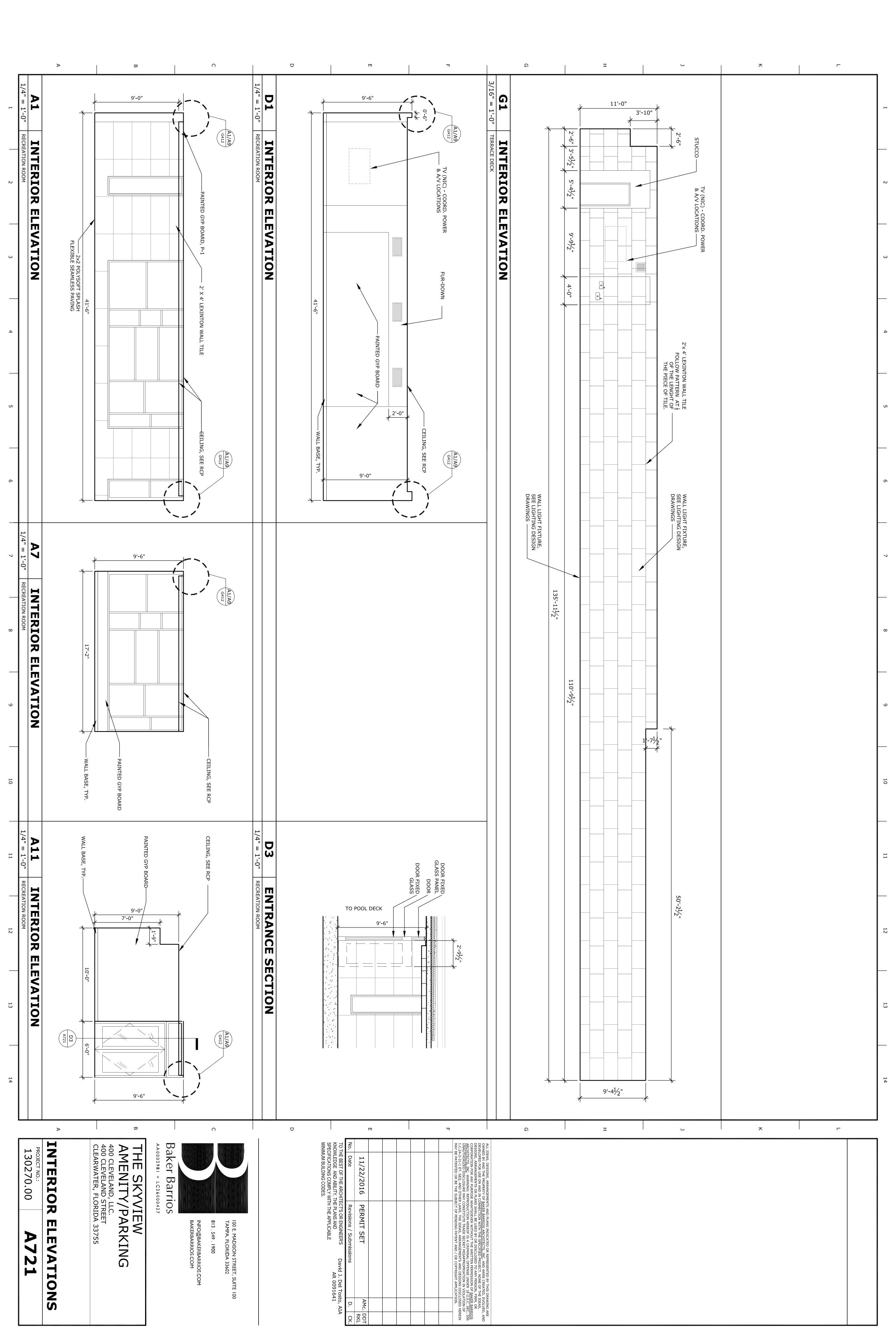


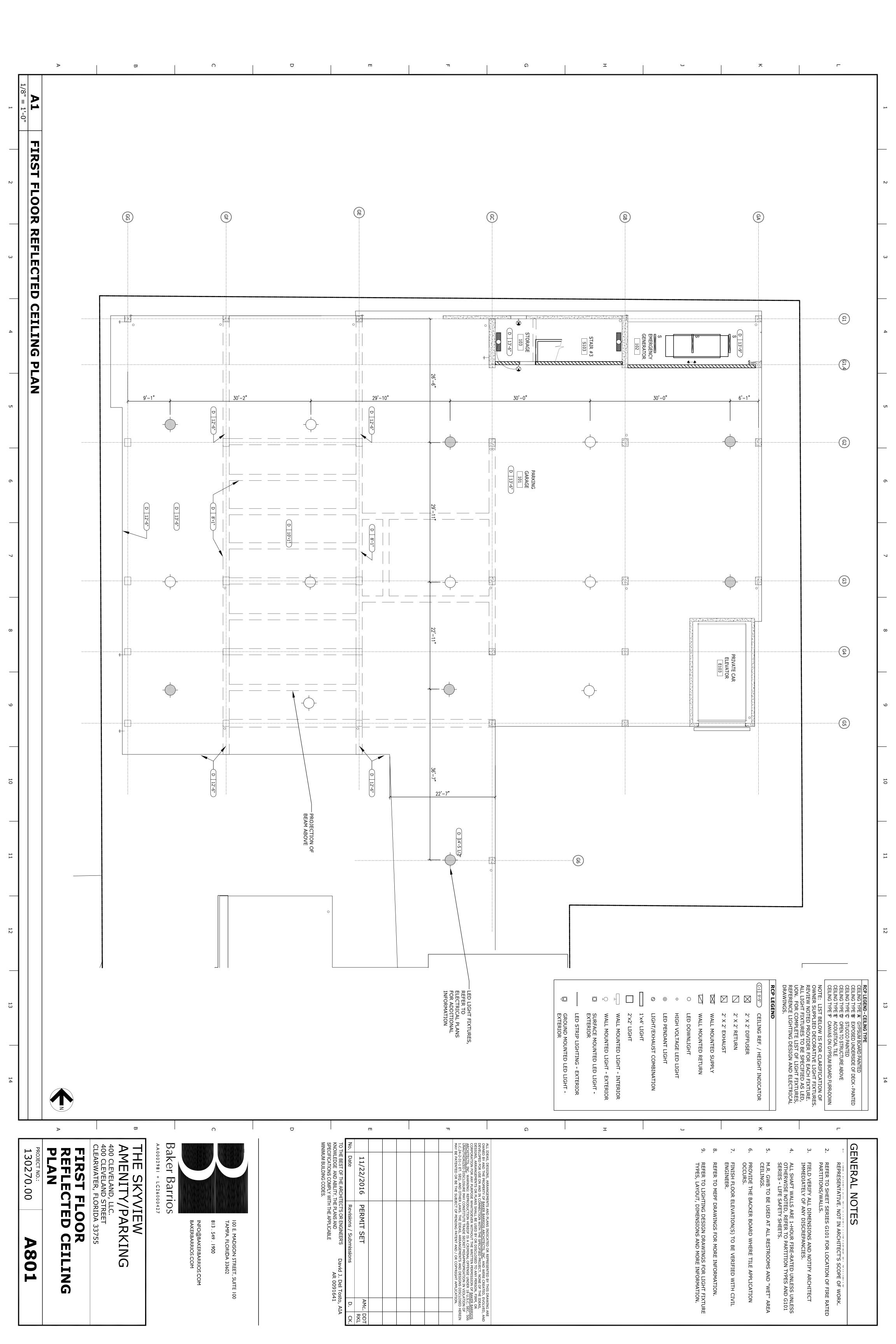


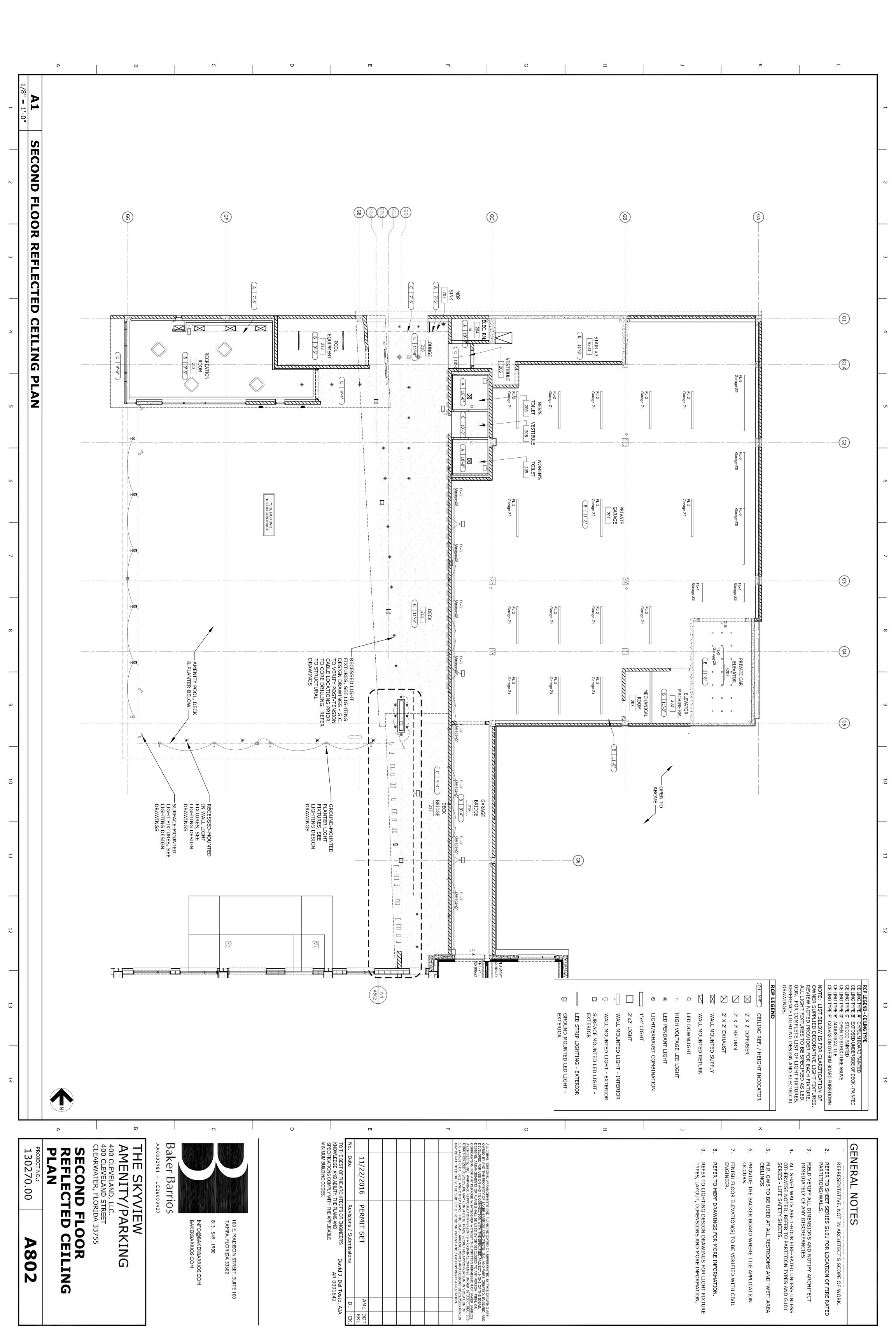


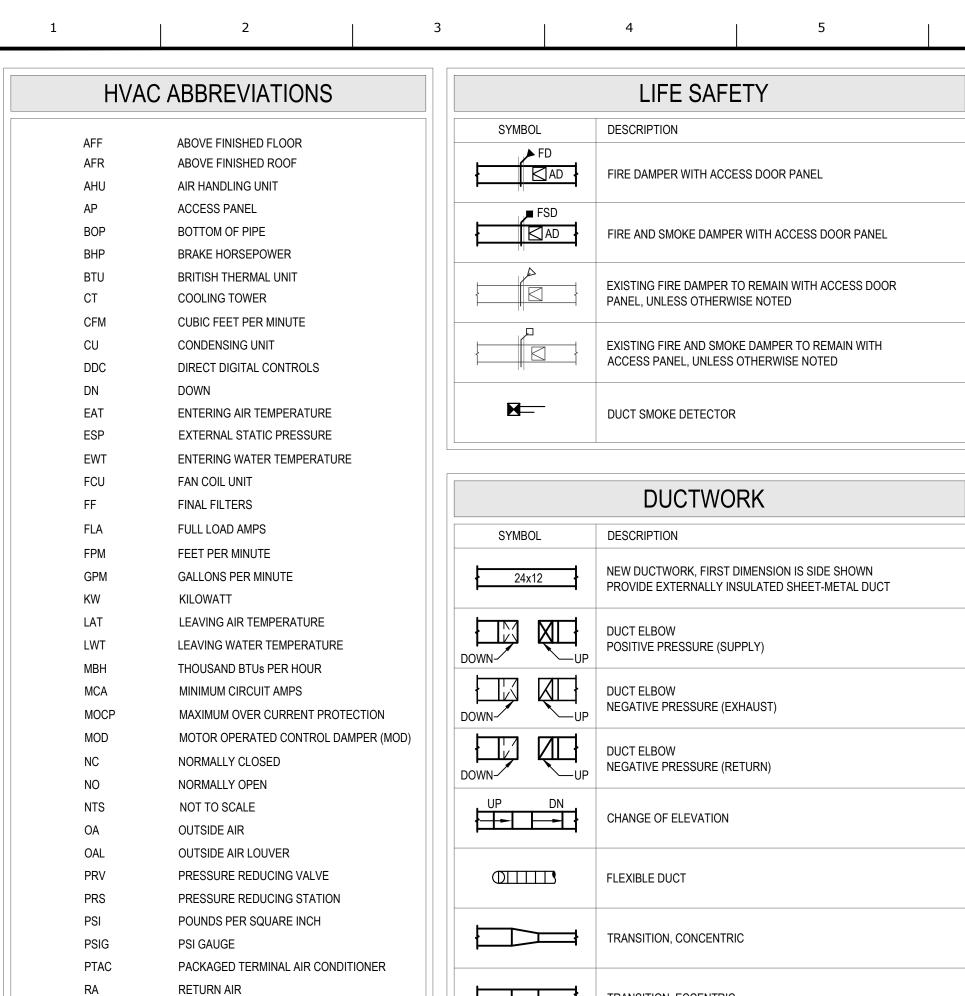












	LIFE SAFETY	
SYMBOL	DESCRIPTION	1. SCOPE:
FD	FIRE DAMPER WITH ACCESS DOOR PANEL	WORK SHALL INCLUDE ALL MATERIAL AND PROPERLY FUNCTIONING ME APPLICABLE CODES, AND CONTRACT ALL WORK NORMALLY SPECIFIED IN DI
FSD	FIRE AND SMOKE DAMPER WITH ACCESS DOOR PANEL	PAY FOR ALL REQUIRED LICENSES, FE 2. CODES:
	EXISTING FIRE DAMPER TO REMAIN WITH ACCESS DOOR PANEL, UNLESS OTHERWISE NOTED	INSTALL ALL WORK IN ACCORDAN REGULATIONS AND GOVERNING COMPANIES SERVING THE PROJECT.
	EXISTING FIRE AND SMOKE DAMPER TO REMAIN WITH ACCESS PANEL, UNLESS OTHERWISE NOTED	WHERE A CONFLICT IN CODE REQUI SHALL GOVERN. 3. <u>STANDARDS:</u>
K	DUCT SMOKE DETECTOR	ALL EQUIPMENT AND DEVICES SHALL I APPROVED TESTING AGENCY OR A. DEVICE.

	DUCTWORK
SYMBOL	DESCRIPTION
24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUCT
DOWN-UP	DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (EXHAUST)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (RETURN)
UP DN	CHANGE OF ELEVATION
ФППВ	FLEXIBLE DUCT
	TRANSITION, CONCENTRIC
	TRANSITION, ECCENTRIC
10x8 8ø \$	TRANSITION, SQUARE TO ROUND
	SQUARE THROAT ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
24x12	RECTANGULAR DUCTWORK
8ø	ROUND DUCTWORK

NORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES, AND CONTRACT DRAWINGS AND SPECIFICATIONS. WORK SHALL INCLUDE ALL WORK NORMALLY SPECIFIED IN DIVISION 23.

PAY FOR ALL REQUIRED LICENSES, FEES, INSPECTIONS AND PERMITS.

ISTALL ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATIONS AND GOVERNING CODES, INCLUDING THE REGULATIONS OF THE UTILITY

WHERE A CONFLICT IN CODE REQUIREMENTS OCCURS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

ALL EQUIPMENT AND DEVICES SHALL BEAR U.L. LABEL, THE LABEL OF AN INDUSTRY RECOGNIZED APPROVED TESTING AGENCY OR A.G.A. CERTIFICATION FOR SAID ITEM OF EQUIPMENT OR

ALL ELECTRICAL DEVICES MUST BE U.L. APPROVED.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE ACCEPTANCE OF THE ARCHITECT/ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.

IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO ARCHITECT/ENGINEER FOR CLARIFICATION AND INSTRUCTIONS.

ELECTRICAL PROVISIONS WORK INCLUDES VARIOUS ELECTRICAL REQUIREMENTS (A) WHICH INCORPORATE SPECIFIC ELECTRICAL FEATURES AND COMPONENTS WHICH ARE REQUIRED TO BE PHYSICALLY INTEGRAL

DEFINITIONS: DEFINITIONS FOR THE PURPOSE OF MECHANICAL/ELECTRICAL CONTROL AND POWER COORDINATION ARE AS GIVEN BELOW. ANY ITEMS WHICH DO NOT FALL WITHIN THE SCOPE OF THIS PARAGRAPH SHALL BE COORDINATED AS INDIVIDUALLY SPECIFIED.

WITH MECHANICAL EQUIPMENT, OR (B) WHICH REQUIRE NECESSARY ELECTRICAL

"FURNISH" MEANS TO PROCURE AN ITEM AND TO DELIVER IT TO THE PROJECT FOR INSTALLATION.

"INSTALL" MEANS TO DETERMINE (IN COORDINATION WITH OTHERS AS NECESSARY) THE

APPROPRIATE INTENDED LOCATION OF AN ITEM AND TO SET AND CONNECT IT IN PLACE.

"PROVIDE" MEANS TO BOTH FURNISH AND INSTALL

INTERCONNECTING COMPONENTS FOR THE MECHANICAL SYSTEMS.

INCLUDE ALL AUXILIARIES AND ACCESSORIES FOR COMPLETE AND PROPERLY OPERATING

CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE PROVIDING A BID PRICE. ADVISE

ARCHITECT/ENGINEER OF DISCREPANCIES OR QUESTIONS BEFORE BIDDING.

PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

PROVIDE ALL REQUIRED OPENINGS TO ACCOMPLISH THE WORK. PROVIDE SLEEVES OR OTHER APPROVED METHODS TO ALLOW PASSAGE OF ITEMS INSTALLED.

SYSTEMS.

ANY INTERRUPTION OF EXISTING MECHANICAL AND ELECTRICAL SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. THIS INCLUDES, BUT IS NOT LIMITED TO, SERVICES PROVIDING CHILLED WATER, ELECTRICITY, OR OTHER CRITICAL SYSTEMS AS MAY BE PERTINENT TO THIS PARTICULAR PROJECT. SERVICE INTERRUPTION TIMES AND DURATION OF INTERRUPTION OF SERVICES SHALL BE DECIDED BY THE OWNER. PROVIDE APPROPRIATE PROVISIONS (E.G., ISOLATION SHUT-OFF VALVES, DAMPERS, END CAPS, AND SIMILAR ITEMS) AS NECESSARY TO ACCOMMODATE THE REQUIRED SERVICE INTERRUPTIONS. IF SHUTDOWNS CANNOT BE ACCOMMODATED, PROVIDE MEANS FOR "WET" TAPPING OR "HOT" TAPPING OF PIPING SYSTEMS.

12. CLEANING AND PROTECTION EQUIPMENT: ALL MECHANICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE EQUIPMENT MADE "LIKE NEW" AND TO THE

DUCT ACCESSORIES

GENERAL NOTES

SATISFACTION OF THE ARCHITECT/ENGINEER UPON COMPLETION, AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE.

PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO "AS NEW" CONDITION OR REPLACED AT THE DIRECTION OF THE ARCHITECT/ENGINEER. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR, FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ARCHITECT/ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO "NEW" CONDITION.

PARTICULAR ITEM.

SUBMIT SHOP DRAWINGS FOR ALL WORK INCLUDING ALL ITEMS, SERVICES AND SYSTEMS PROVIDED FOR THE PROJECT.

SHOP DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING:

TECHNICAL AND DESCRIPTIVE DATA IN DETAIL EQUAL TO OR GREATER THAN THE DATA GIVEN IN THE ITEM SPECIFICATION. INDICATE ALL CHARACTERISTICS, SPECIAL MODIFICATIONS AND FEATURES. WHERE PERFORMANCE AND CHARACTERISTIC DATA IS SHOWN ON THE DRAWINGS OR SPECIFIED, SUBMITTED DATA SHALL BE PROVIDED IN A DEGREE WHICH IS BOTH QUANTITATIVELY AND QUALITATIVELY EQUAL TO THAT SPECIFIED AND SHOWN SO THAT COMPARISON CAN BE MADE. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAN THAT GIVEN IN ITEM SPECIFICATION AND INCLUDE ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES. PRESSURE DROPS. OPERATING TEMPERATURES. OPERATING CURVES. TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURERS' NAMES MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS, GAUGES AND ALL OTHER RELATED INFORMATION AS APPLICABLE TO

EXCEPTIONS TO OR DEVIATIONS FROM THE CONTRACT DOCUMENTS. SHOULD ARCHITECT/ENGINEER ACCEPT ANY ITEMS HAVING SUCH DEVIATIONS WHICH ARE NOT CLEARLY BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION, IN WRITING, ON ITEM SUBMITTAL, THEN CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH DEVIATIONS REGARDLESS OF WHEN SUCH DEVIATIONS ARE DISCOVERED.

14. SHOP DRAWINGS TECHNICAL INFORMATION BROCHURE NEAR CONCLUSION OF WORK AND NOT LESS THAN 10 DAYS PRIOR TO SUBSTANTIAL COMPLETION INSPECTION, SUBMIT A TECHNICAL INFORMATION DOCUMENT (TID) CONTAINING ALL FINAL SHOP DRAWING AND SUBMITTAL INFORMATION FOR THE PROJECT. THIS TECHNICAL

INFORMATION DOCUMENT SHALL CONSIST OF ONE OR MORE ADEQUATELY SIZED, HARD-COVER,

SHOP DRAWING TECHNICAL AND DESCRIPTIVE DATA SHALL BE INSERTED IN THE TID IN PROPER ORDER ON ALL ITEMS. PROVIDE COMPLETE INFORMATION, INCLUDING, BUT NOT LIMITED TO, WIRING AND CONTROL DIAGRAMS, SCALE DRAWINGS SHOWING THAT PROPOSED SUBSTITUTE EQUIPMENT WILL FIT INTO ALLOTTED SPACE (INDICATE ALL SERVICE ACCESS, CONNECTIONS, ETC.), TEST DATA, AND OTHER DATA REQUIRED TO DETERMINE IF EQUIPMENT COMPLIES FULLY

WITH THE SPECIFICATIONS.

3-RING BINDER FOR 8-1/2" X 11" SHEETS.

SUBMIT FOR CHECKING A SPECIFIC SET OF WRITTEN OPERATING INSTRUCTIONS ON EACH ITEM WHICH REQUIRES INSTRUCTIONS TO OPERATE. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

SUBMIT FOR ACCEPTANCE MAINTENANCE INFORMATION CONSISTING OF MANUFACTURER'S PRINTED INSTRUCTION AND PARTS LISTS FOR EACH MAJOR ITEM OF EQUIPMENT. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

PROVIDE A ONE YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER TO REPLACE FOR THE OWNER ANY DEFECTIVE WORKMANSHIP, EQUIPMENT, OR MATERIAL WHICH HAS BEEN FURNISHED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM. THIS GUARANTEE SHALL ALSO INCLUDE REASONABLE ADJUSTMENTS OF THE SYSTEM REQUIRED FOR PROPER OPERATION DURING THE GUARANTEE PERIOD. EXPLAIN THE PROVISIONS OF GUARANTEE TO OWNER AT THE "INSTRUCTION IN OPERATION CONFERENCE"

18. <u>TEST AND BALANCE NOTE:</u>
A THIRD PARTY LICENSED TEST AND BALANCE CONTRACTOR SHALL BALANCE EACH SYSTEM AFTER HVAC INSTALLATION IS COMPLETE. ALL EQUIPMETN SHALL BE BALANCED TO A TOLERANCE OF +/-10% OF THE VALUES SHOWN WITHIN THESE PLANS. A CERTIFIED REPORT SHALL BE DELIVERED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL COMPLETION OF CONSTRUCTION.

WHEN ALL WORK IS COMPLETED, PROVIDE THE OWNER AN "INSTRUCTION IN OPERATION CONFERENCE". AT THE CONFERENCE, THE CONTRACTOR SHALL REVIEW WITH THE OWNER ALL APPROPRIATE INFORMATION.

GENERAL NOTES

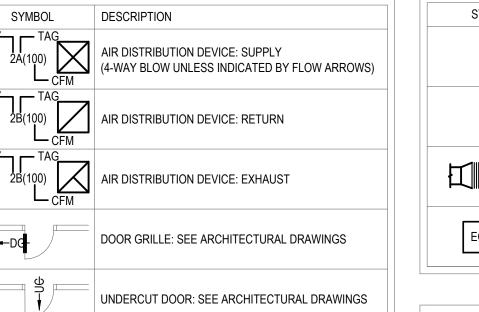
- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- 4. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
- 5. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH DOOR SWINGS, FURNITURE, AND OTHER EQUIPMENT.
- 8. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A
- 9. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.

VIBRATION-FREE, RIGID INSTALLATION.

- 10. PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH DUCTS FROM MAIN DUCT TO AIR DEVICES. POSITION DAMPERS IN ACCESSIBLE LOCATION. IF NOT ACCESSIBLE PROVIDE VOLUME DAMPER WITH REMOTE CABLE CONTROL REGULATOR TO ACCESSIBLE LOCATION.
- 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING, OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- 15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOW, FITTINGS, ETC. TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES UPSTREAM
- 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT.
- 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS, AND OTHER AIR DISTRIBUTION DEVICES.
- 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNIT, AND FAN COIL UNIT.
- 19. INTERRUPTIONS TO EXITING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE
- 20. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- 21. ALL EQUIPMENT, DUCTWORK, ETC. TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY AS DIRECTED BY OWNER.
- ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS TO ALLOW FOR INSPECTIONS OF RATED WALLS.

22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT,

- 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
- 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- 25. PRIOR TO START UP OF AIR HANDLING SYSTEMS AND EXHAUST SYSTEMS, INSTALL AND MAINTAIN TEMPORARY FILTERS OVER ALL RETURN, EXHAUST AND RELIEF GRILLES AND OPENINGS. FILTRATION MEDIUM SHALL HAVE A RATING OF MERV 8 OR BETTER.



REHEAT COIL

SUPPLY AIR

VOLTS/PHASE

AIR DISTRIBUTION

UNO

STATIC PRESSURE

REVOLUTIONS PER MINUTE

TOTAL STATIC PRESSURE

VARIABLE AIR VOLUME

UNLESS NOTED OTHERWISE

EQUIPMENT		
SYMBOL	DESCRIPTION	
(<u></u>	EXHAUST DUCT UP TO FAN ABOVE	
<u> </u>	EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW	
	IN-LINE CENTRIFUGAL FAN	
EQUIP.—ခရု	P-TRAP	

	CONTROLS
SYMBOL	DESCRIPTION
①	THERMOSTAT / TEMPERATURE SENSOR
Θ	HUMIDISTAT / HUMIDITY SENSOR
M	MOTORIZED CONTROL DAMPER

DESCRIPTION SYMBOL SA-1 SOUND ATTENUATOR

ł III	MOTOR OPERATED CONTROL DAMPER (MOD)
FM	AIR FLOW MEASURING STATION
	MANUAL BALANCING DAMPER
	ACCESS DOORS, VERTICAL OR HORIZONTAL
	FLEXIBLE CONNECTION
AF	CFM SENSOR
	BACKDRAFT DAMPER

HVAC DUCTWORK SCHEDULE

TYPE / LOCATION	SUPPLY AIR	RETURN AIR	EXHAUST AIR	OUTSIDE AIR
ABOVE CEILING	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL EXT. FIBERGLASS
EXPOSED (MECHANICAL ROOM)	SHEET METAL EXT. FIBERBOARD	SHEET METAL EXT. FIBERBOARD	SHEET METAL SINGLE WALL NON-INSULATED	WRAP SHEET METAL EXT. FIBERGLASS
EXPOSED (OCCUPIED AREA'S)	ROUND OR OVAL SHEET METAL DOUBLE WALL	ROUND OR OVAL SHEET METAL DOUBLE WALL	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL DOUBLE WALL INSULATED

- 1. EXTERIOR WRAPPED DUCTS SHALL HAVE TWO COATS OF FABRIC AND MASTIC. INSULATED DUCTS LOCATED IN OUTDOOR AREAS SHALL HAVE 1" THICKER INSULATION
- THAN INDOOR APPLICATIONS. FOR GENERAL DUCTWORK CONSTRUCTION ONLY. SEE PLANS FOR INDIVIDUAL CASES.
- EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURE ABOVE THE DUCT UNLESS NOTED OTHERWISE.
- EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE SUPPORTED BY CABLES. REFER TO DETAILS. PROVIDE SHEET METAL TRANSITIONS BETWEEN LOUVERS AND DUCTWORK. INSULATED EXTERIOR OF SHEET METAL PLENUM WITH FIBER BOARD INSULATION IN CONCEALED

LOCATIONS. PROVIDE DOUBLE WALL INSULATED SHEET METAL PLENUM IN EXPOSED

- LOCATIONS. MAXIMUM DISTANCE OF FLEXIBLE BRANCH DUCTWORK TO AIR DEVICES SHALL BY 6 FT. WHERE LENGTH EXCEEDS 6 FT. THE REMAINING BALANCE OF DUCTWORK SHALL BE EXTERNALLY INSULATED ROUND SNAPLOCK SHEET METAL DUCTWORK TO CONICAL
- BELLMOUTH SPIN-IN TAP AT MAIN DUCT TRUNK. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 8M OR EQUAL.

CODE COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE, 2014 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

DESIGN CRITERIA

OUTSIDE AIR DESIGN CRITERIA:

SUMMER INSIDE DESIGN CRITERIA:

50% RH ± 7.5%

WINTER INSIDE DESIGN CRITERIA: 68°F DB ± 2°EF 50% RH ± 10%

EXHAUST AIR VENTILATION RATE: TOILET ROOM 50 CFM/WC

SUMMER: 95°F DB / 74.8°F WB

WINTER: 38°F DB

75° DB ± 2°F

THE SKYVIEW AMENITY/PARKING

400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755

Baker Barrios

AA0002981 + LC26000427

NO SCALE

MECHANICAL LEGEND

CONSULTING ENGINEERS

220 WEST 7th Avenue, Suite 210

Tampa, Florida 33602 Tel: 888.891.9713

www.VoltAirEngineers.com

COA #27158 Project No: 01.15.126

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PERMIT SET

Revisions / Submissions

LAWRENCE M. STOFF PE #78586

100 E. MADISON STREET, SUITE 100

TAMPA, FLORIDA 33602

INFO@BAKERBARRIOS.COM

BAKERBARRIOS.COM

813.549.1900

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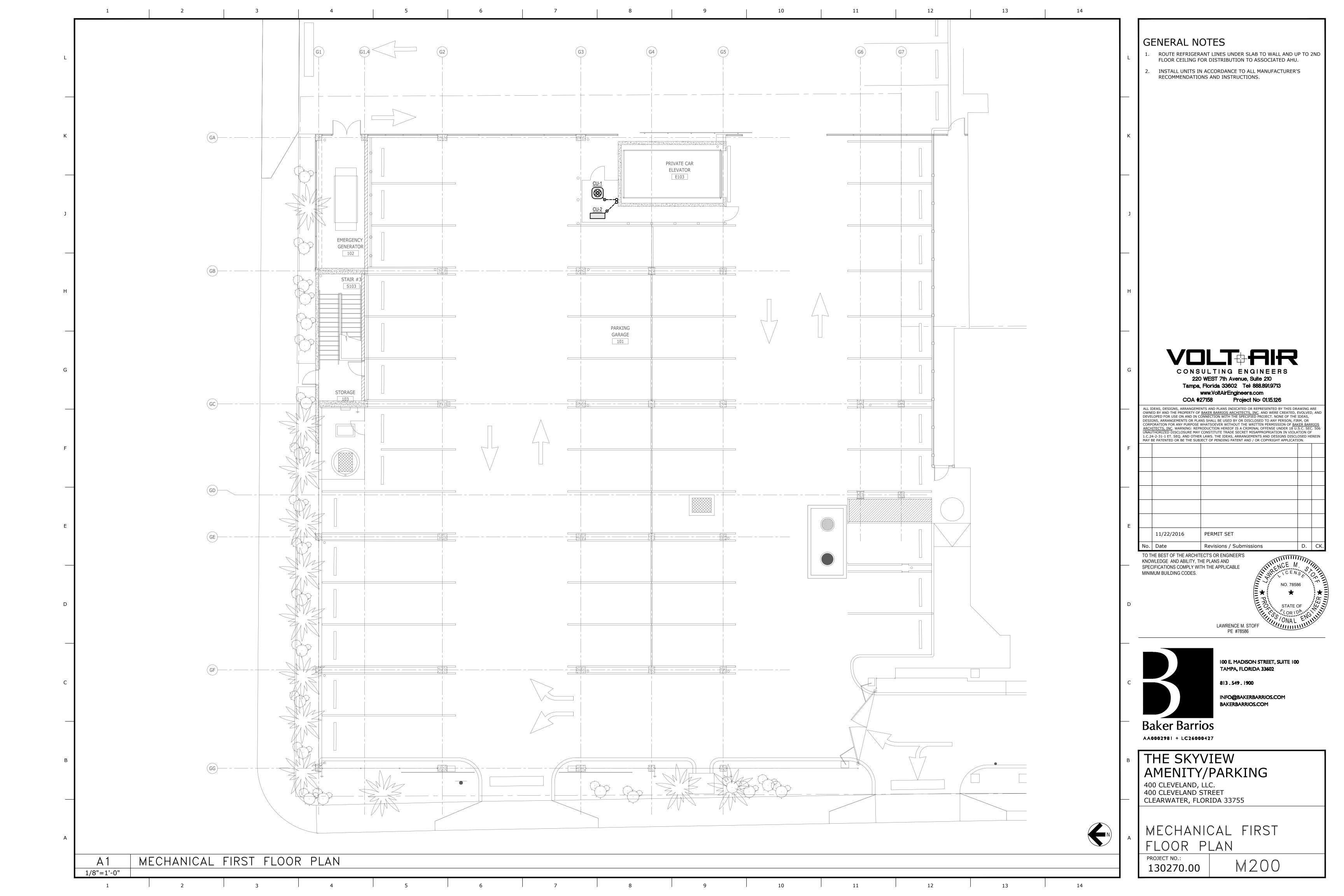
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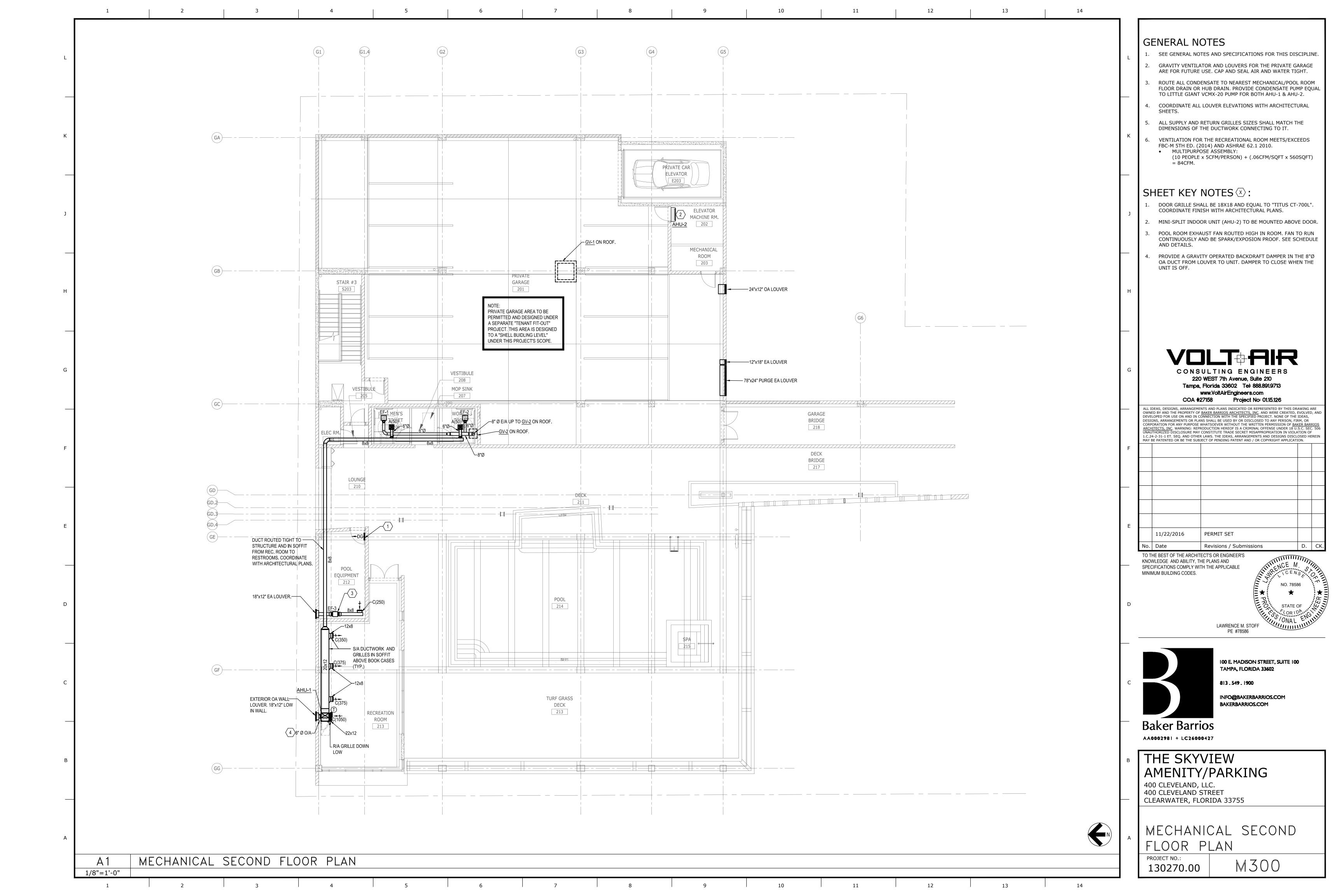
MINIMUM BUILDING CODES.

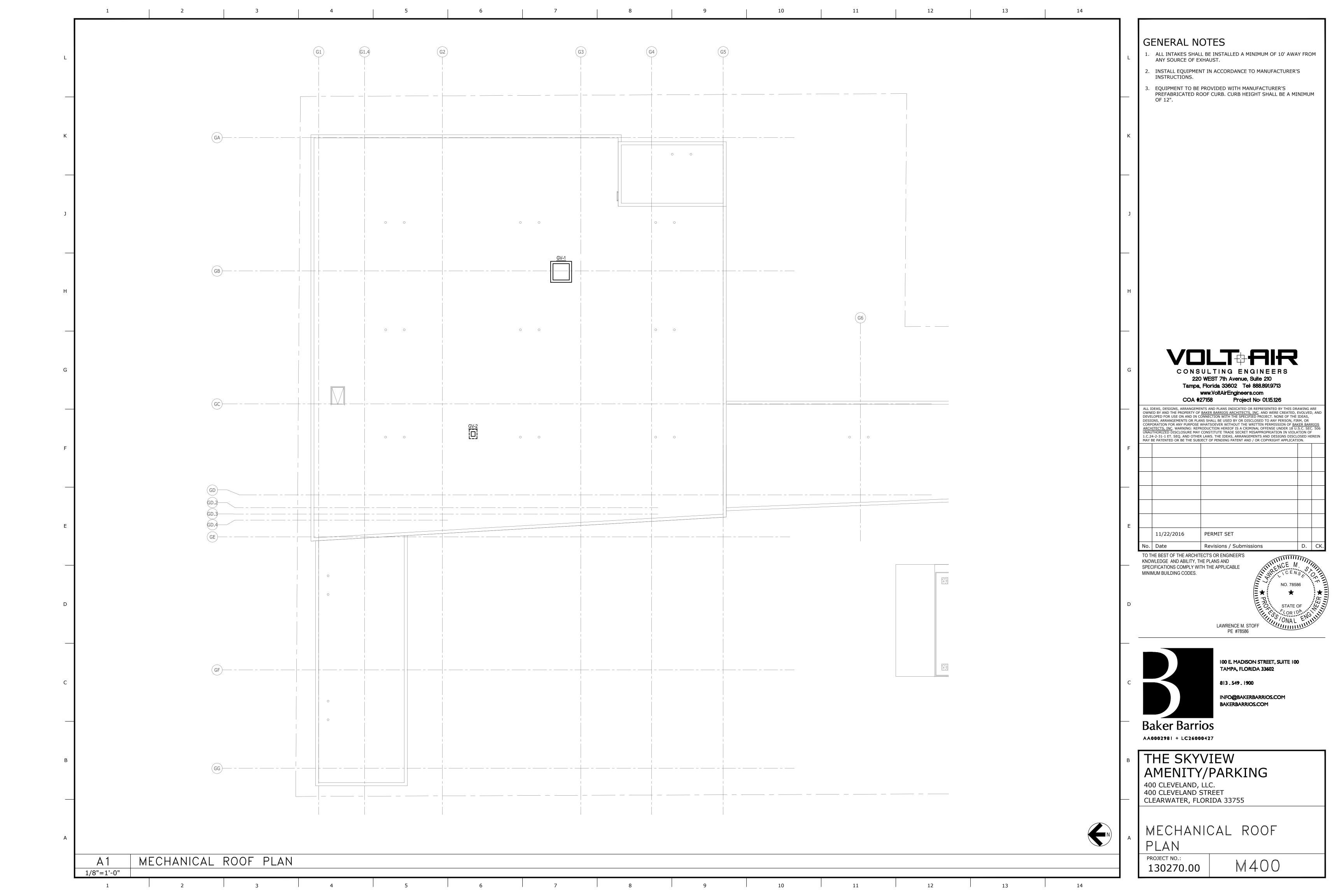
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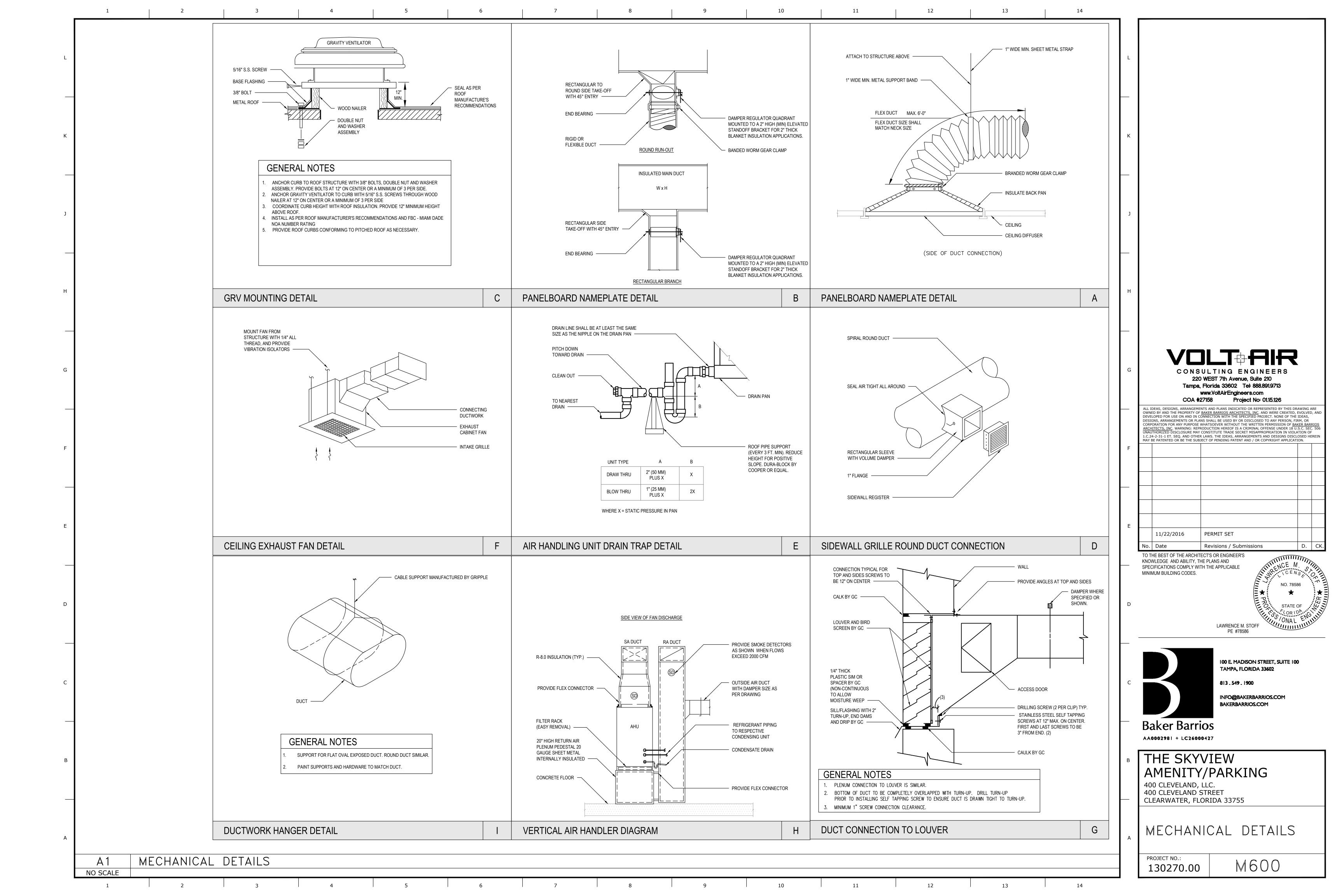
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	1 2 3 5	6 7 8 9 10 11 12 13 14	
		DX SPLIT SYSTEM - INDOOR UNIT/AHU SCHEDULE	
L		SELECTION BASED ON UNIT NO. MANUFACTURER MODEL SERVING FAN DATA MOTOR DATA SERVING FAN DATA MOTOR DATA SEER @ AHRI OUTSIDE AIR EXT. STATIC P. IN H20 UP (MATTS) VOLT PH SEER @ AHRI OUTSIDE AIR EXT. STATIC (KW) VOLT PH FAN FLA MCA MOCP NOTES	L
		MANUFACTURER MODEL	
		NOTES: 1. POWER FOR AHU-2 PROVIDED FROM ASSOCIATED OUTDOOR UNIT (CU-2). 2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAX REFRIGERANT LINE LENGTH. MAX LINE LENGTH.	
К		3. UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER. 4. UNIT(S) SHALL BE PROVIDED WITH A CONDENSATE PUMP EQUAL TO "LITTLE GIANT #VCL-14ULS".	K
		DX SPLIT SYSTEM - CONDENSING UNIT SCHEDULE:	
		SECTION BASED ON UNIT NO. MANUFACTURER MODEL SERVING NOM CAP (MBH) SERVING SERVING NOM CAP (MBH) SER COND. EAT REFRIG TYPE NO. HP (WATTS) WOLT PH QTY STEPS VOLT PH RLA LRA VOLT PH FAN FLA MCA MOCP	
J		CU-1 LENNOX TSA036 AHU-1 36.0 14.5 95 R-410A 1 1/5 208 3 1 1 208 1 10.4 73.0 208 3 1.10 14.2 20 CU-2 MITSUBISHI PUZ-HA30NHA4 AHU-2 30.0 15.3 95 R-410A 1 0.172 208 1 1 1 208 1 20.0 27.5 208 1 0.80 28 40	J
		NOTE: UNIT SHALL BE PLACED ON A 4" CONCRETE HOUSEKEEPING PAD AND LOCATED INSIDE A FENCED ENCLOSURE. SEE FLOOR PLANS AND SPECIFICATION FOR MORE DETAILS.	
		FAN SCHEDULE	
н		PLAN PRODUCT MODEL TYPE CFM STATIC PRESS. FAN MOTOR VOLT/ DRIVE SONES ACCESSORIES INTERLOCKS IN. WG. RPM RPM HP (WATTS) ECM MOTOR PHASE TYPE TO RESEAUCH OF THE CONTROL OF	н
		EF-1 GREENHECK SP-B70 CEILING EXHAUST FAN 50 .3 675 675 (45W) NO 120/1 DIRECT 2.0 1,7,10,12,24 LIGHT SWITCH EF-2 GREENHECK SP-B70 CEILING EXHAUST FAN 50 .3 675 675 (45W) NO 120/1 DIRECT 2.0 1,7,10,12,24 LIGHT SWITCH EF-3 GREENHECK BSQ-80 INLINE 250 .4 1084 1725 1/4 NO 120/1 BELT 7.0 1,5,21,23,24,25,27 RUNS CONT.	
		NOTES: 1. MODEL NUMBERS AND FAN SELECTION ARE BASED ON GREENHECK WITH THE FOLLOWING ACCESSORIES SCHEDULED: 1) BACKDRAFT DAMPER 8) INLET SCREEN 15) WEATHER COVER 22) HINGED FRAMES	
G		2) THERMOSTAT 9) CURB MOUNT ROOF JACK 16) 2 SPEED / 1 WINDING 23) SPARK/EXPLOSION PROOF 3) BIRDSCREEN 10) SPEED CONTROLLER 17) FILTERS 24) UL/cUL 507 LISTED 4) ROOF CURB 11) WALL SHUTTER 18) WALL COLLAR 25) SPECIAL COATING: AIR DRY PHENOLIC 5) DISCONNECT SWITCH 12) VIBRATION ISOLATORS 19) FAN GUARD/SCREEN 26) TIE DOWN POINTS	G CONSULTING ENGINEERS
		6) DRAIN 13) WALL CAP 20) COMPANION FLANGES 27) FAN TO RUN CONTINUOUSLY 7) EQUIPMENT SUPPORTS 14) WALL SHUTTER - MOTORIZED 21) INSULATED HOUSING FOR SOUND CONTROL 28) FAN INTERLOCKED WITH LIGHT SWITCH. ENGAGE WHEN LIGHT SWITCH IS TURNED ON AND SHALL REMAIN ON FOR A PERIOD OF 15MIN (TIME DELAY) WHEN LIGHT SWITCH TURNS OFF.	220 WEST 7th Avenue, Suite 210 Tampa, Florida 33602 Tel: 888.891.9713 www.VoltAirEngineers.com COA #27158 Project No: 01.15.126
_		AIR DISTRIBUTION SCHEDULE ROOF MOUNTED GRAVITY VENTILATORS	ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS
F		SYMBOL/TAG DESCRIPTION IMAGE PLAN MODEL CFM IN WG OPENING (INCHES)	ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION. F
		A (XXX) COLOR: WHITE MATERIAL: ALUMINUM SERVICE: CEILING SUPPLY BASIS OF DESIGN: TITUS TMS COLOR: WHITE GRV-1 FGR001 42X42 5 GRV-2 FGR 100 .001 14X14 5	
_		B (XXX) BASIS OF DESIGN: TITUS 50F COLOR: WHITE NOTES: 1. MODEL TYPES AND VENTILATOR SELECTIONS ARE BASED ON GREENHECK SPUN ALUMINUM GRAVITY INTAKE AND RELIEF. SEE SPECIFICATIONS FOR	
E		COLOR: WHITE MATERIAL: ALUMINUM (RETURN) (EXAUST) COLOR: WHITE MATERIAL: ALUMINUM SERVICE: CEILING RETURN AND EXHAUST COLOR: WHITE MATERIAL: ALUMINUM SERVICE: CEILING RETURN AND EXHAUST COLOR: WHITE MATERIAL: ALUMINUM GRAVITY INTAKE AND RELIEF. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS 2. ALL VENTILATORS SHALL BE PROVIDED WITH BIRD SCREEN 3. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH FBC - MIAMI DADE NOA NUMBER RATING FOR 140 MPH	E
		WIND LOAD. 4. PROVIDE FACTORY INSTALLED BACKDRAFT DAMPER. 5. GRV-1 FOR FUTURE USE. SEE TENANT FIT-OUT DOCUMENTS FOR AIRFLOW.	11/22/2016PERMIT SETNo. DateRevisions / SubmissionsD. CK.
\dashv		B (XXX) BASIS OF DESIGN: TITUS 300FL(S) / 350RL (R) COLOR: WHITE MATERIAL: ALUMINUM SERVICE: SIDEWALL SUPPLY (300FL)	TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.
D		SERVICE: SIDEWALL SUPPLY (350RL)	NO. 78586 *** *** *** *** *** *** *** **
U		GENERAL NOTES:	LAWRENCE M. STOFF PE #78586
		1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER TYPE 3 FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER TYPE 1 FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.	PE #78586
		2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED	100 E. MADISON STREET, SUITE 100 TAMPA, FLORIDA 33602
С		SUPPORTS. 3. MAXIMUM SOUND RATING FOR ALL AIR DEVICES 25 NC.	813.549.1900 INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM
		4. PROVIDE SECTORIZING BAFFLES IN SUPPLY AIR DEVICES TO DIRECT AIR AS INDICATED ON FLOOR PLANS WITH DIRECTIONAL ARROWS SHOWN.	Baker Barrios
			AA0002981 + LC26000427
В			THE SKYVIEW AMENITY/PARKING
			400 CLEVELAND, LLC. 400 CLEVELAND STREET — CLEARWATER, FLORIDA 33755
			MECHANICAL
А			SCHEDULES
	A1 MECHANICAL SCHEDULES NO SCALE		130270.00 M 500
	1 2 3 4 5	6 7 8 9 10 11 12 13 14	



ELECTRICAL SPECIFICATIONS

I. SCOPE OF WORK

A. ALL WORK SHALL BE IN COMPLIANCE WITH THE LATEST APPLICABLE CODES, LAWS AND ORDINANCES. AND THE NATIONAL ELECTRICAL CODE. PROVIDE AND FURNISH ALL LABOR, MATERIALS, PERMITS, AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK AS SHOWN ON CONTRACT DOCUMENTS.

B. CONTRACTOR SHALL INSPECT ALL NEW MATERIAL AND EQUIPMENT PRIOR TO INSTALLATIONS FOR DAMAGES, AND SHALL VERIFY EQUIPMENT OPERATES SATISFACTORILY.

C. CONTRACTOR SHALL WARRANT ALL MATERIAL AND EQUIPMENT FURNISHED TO COMPLETE ALL WORK FOR ONE YEAR AFTER FINAL ACCEPTANCE OF COMPLETION. MATERIALS AND EQUIPMENT DEFECTS OF FAILURES DUE TO ABUSE, OR WORKMANSHIP NEGLECT SHALL BE MADE GOOD BY THE CONTRACTOR WITHOUT COST TO THE OWNER.

D. PROVIDE ONLY NEW, STANDARD UNDERWRITER'S LABORATORY INC. LISTED FIRST-GRADE MATERIALS THROUGHOUT, AND SHALL BE MARKED WITH UNDERWRITER'S LABORATORY INC. LISTED AND WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL MATERIALS SHALL BE OF ONE MANUFACTURER.

E. CONTRACTOR SHALL BE EXPERIENCED IN THEIR TRADE. CONTRACTOR'S WORK SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. MATERIALS AND EQUIPMENT INSTALLED SHALL BE PLUMB, STRAIGHT,

F. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND OWNER ON EXACT LOCATION OF WIRING DEVICES AND RACEWAY FOR OWNER-FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

G. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL TEST ALL WIRING AND EQUIPMENT INSTALLATION, AND SHALL BE IN PERFECT WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.

II. ELECTRICAL IDENTIFICATION

A. NAMEPLATES:

ENGRAVED PLASTIC LAMINATE NAMEPLATES: PROVIDE ENGRAVING PHENOLIC PLASTIC LAMINATE, IN SIZES AND THICKNESS INDICATED, ENGRAVED WITH 1/16 INCH THICK LINES WITH SQUARE STANDARD PICA LETTERING AND WORDING AS SPECIFIED HEREIN, BLACK FACE AND WHITE LETTER FOR NORMAL SYSTEMS AND RED AND WHITE FOR FIRE ALARM AND WHERE NOTED IN THE SPECIFICATIONS. PUNCH FOR MECHANICAL FASTENING, EXCEPT WHERE ADHESIVE MOUNTING IS NECESSARY BECAUSE OF SUBSTRATE MATERIAL THICKNESS SHALL BE 1/16 INCH. PROVIDE BEVELED EDGE IN ORDER TO ELIMINATE SHARP CORNERS, PROVIDE SELF-TAPPING STAINLESS STAINLESS STEEL ROUND HEAD SCREWS. PROVIDE CONTACT TYPE PERMANENT ADHESIVE WHERE SCREWS CANNOT OR SHALL NOT PENETRATE THE SUBSTRATE. ADHESIVE NAMEPLATE SHALL BE PERMANENTLY INSTALLED. TITLES SHALL BE 1/2 INCH HIGH AND ALL OTHER LETTERING SHALL BE 1/4 INCH HIGH.

B. JUNCTION BOXES:

JUNCTION BOX IDENTIFICATION: PROVIDE NEAT INDELIBLE FELT TIP, STENCILED MARKING ON JUNCTION BOXES AND PULL BOX COVERS. LETTER SIZES SHALL BE 1 INCH HIGH MINIMUM. PROVIDE NON-STENCILED MARKINGS INSIDE THE JUNCTION BOX AND ON THE EXTERIOR EDGE TO MATCH THE COVER MARKINGS.

III. BASIC MATERIALS AND METHODS

A. PANEL BOARDS:

PROVIDE PANEL BOARDS WITH MAIN BREAKER OR MAIN LUGS WHERE SHOWN ON THE DRAWINGS, OF A DEAD FRONT, DISTRIBUTED PHASE SEQUENCE DESIGN. PANEL BOARDS SHALL BE EQUIPPED WITH THERMAL-MAGNETIC MOLDED CASE CIRCUIT BREAKERS WITH FRAME AND TRIP RATINGS AS INDICATED IN THE SCHEDULES.

DIRECTORIES: A TYPED PANEL BOARD DIRECTORY SHALL BE PROVIDED FOR EACH PANEL BOARD AND SHALL INDICATE THE ACTUAL CIRCUIT NUMBER USED, ROOM NAME AND TYPE OF LOAD. ROOM NAMES SHALL BE THE ACTUAL NAME OR ROOM NUMBER USED NOT NECESSARILY AS SHOWN ON THE DRAWING. PANEL DIRECTORIES SHALL INCLUDE ALL ROOM NUMBERS AND NAMES. WHERE PANEL SCHEDULES ARE INDICATED ON THE DRAWINGS AS "RECEPTACLES OR "LIGHTING", ETC, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE THE SPECIFIC AREA SERVED.

B. CIRCUIT BREAKERS:

CIRCUIT BREAKERS SHALL BE BOLT-ON QUICK-MAKE, QUICK-BREAK THERMAL-MAGNETIC TYPE, FOR ALTERNATING CURRENT. BREAKERS SHALL TRIP FREE OF THE HANDLE AND TRIPPING SHALL BE INDICATED BY THE HANDLE ASSUMING A POSITION BETWEEN OFF AND ON. MULTI- POLE BREAKERS SHALL BE INTERNAL, COMMON TRIP WITH SINGLE OPERATING HANDLE; EXTERNAL HANDLE TIES ARE NOT ACCEPTABLE.

C. CONDUIT:

CONDUIT GENERAL: RIGID SHALL BE MINIMUM 1", GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. E.M.T. SHALL BE MINIMUM 1/2" AND SHALL BE ELECTRO-GALVANIZED. CONDUITS SHALL BE AS MANUFACTURED BY REPUBLIC, PITTSBURGH STANDARD, WHEATLAND, TRIANGLE, ALLIED, OR YOUNGSTOWN.

TYPE "MC" CABLE IS NOT ACCEPTABLE FOR BRANCH CIRCUIT WIRING. TYPE "MC" CABLE IS ONLY ACCEPTABLE TO MAKE FINAL CONNECTIONS FROM SOURCE JUNCTION BOXES TO LIGHT FIXTURES. MAXIMUM LENGTH 6'-0" (DO NOT DAISY CHAIN).

PROVIDE END BUSHINGS ON ALL CONDUITS. PROVIDE PULL STRINGS IN ALL EMPTY RACEWAYS. PULL STRINGS SHALL BE NYLON AND SHALL BE IMPERVIOUS TO MOISTURE. PULL STRINGS SHALL HAVE A TENSILE STRENGTH NOT LESS THAN 200 LBS.

CONDUIT ABOVE GRADE SHALL BE EMT (INTERIOR ONLY), IMC, OR GALVANIZED.

CONDUIT BELOW GRADE SHALL BE RIGID GALVANIZED (HEAVY WALL), IMC, OR PVC (SCHEDULE 40).

SEALANT: PROVIDE A CLOSED CELL SILICONE FOAM SEALANT RATED TO PROVIDE A RATING EQUAL TO THE WALL, CEILING, OR FLOOR ASSEMBLY RATING. PROVIDE SEALS FOR THE EXTERIOR OF CONDUIT PENETRATIONS CONSISTING OF A CAST-IN-PLACE SLEEVE WITH A COMPRESSIBLE RUBBER GASKET BETWEEN THE CONDUIT AND THE SLEEVE. PROVIDE SEALS FOR THE INTERIOR OF THE CONDUIT PENETRATIONS CONSISTING OF GLAND TYPE SEALING BUSHING OR CLOSED CELL SILICONE FOAM. PROVIDE DUCT SEAL INSIDE AN APPROPRIATE SEAL-OFF FITTING TO SEAL THE INTERIOR OF THE CONDUIT SYSTEM FROM WATER SEEPAGE OR HAZARDOUS GASES.

D. OUTLET BOXES:

SHALL BE STANDARD TYPE, WITH KNOCKOUTS, MADE OF PVC, UNLESS NOTED OTHERWISEL AS MANUFACTURED BY STEEL CITY, RACO OR APPLETON.

CEILING OUTLET BOXES SHALL BE 4-INCH OCTAGON 1-1/2 INCH DEEP OR LARGER WHEN REQUIRED

BOXES SHALL BE PROVIDED WITH APPROVED 3/8 INCH FIXTURE STUDS WHERE REQUIRED. PROVIDE JUNCTION OR PULL BOXES WHERE SHOWN ON THE DRAWINGS AS REQUIRED TO FACILITATE INSTALLING CONDUCTORS. SUCH BOXES SHALL BE "CODE" SIZED. ALL JUNCTION BOXES SHALL BE

ACCESSIBLE. F. WIRE AND CABLE 600 VOLT:

STRANDED TYPE XHHW OR THWN.

DUE FOR NUMBER OF CONDUCTORS OR CONDUIT ENTRY.

GENERAL: CONDUCTORS SHALL HAVE CURRENT CARRYING CAPACITIES AS PER N.E.C. AND WITH 600 VOLT INSULATION, #12 MINIMUM EXCEPT FOR CONTROLS, AND FIXTURE WIRE. CONDUCTORS SHALL BE COPPER.

GENERAL USE: #12 AND #10 SHALL BE SOLID, INSULATION TYPE THHN OR THWN.

FEEDERS AND GENERAL USE: #8 AND LARGER AND ALL MOTORS CONDUCTORS SHALL BE

COLOR-CODING FOR CONDUCTORS SHALL BE CONSISTENT THROUGHOUT ENTIRE LENGTH. PHASE TAPE COLOR CODING IS NOT ACCEPTABLE. APPLIES TO FEEDERS AND BRANCH CIRCUIT CONDUCTORS OF ALL SIZES. COLOR CODING SHALL BE BLACK, RED, BLUE AND GREEN (WHITE NEUTRAL) FOR 120/208 VOLT 3-PHASE WIRING.

G. BASIC DEVICES:

TOGGLE SWITCHES:

ROCKER STYLE: PROVIDE SPECIFICATION GRADE, FAST-MAKE POSITIVE-BREAK, FLUSH SINGLE-POLE, THREE AND FOUR WAY, SILENT OPERATION TOGGLE SWITCHES, 20 AMPERE, 120 VOLT AC WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, AND SIDE-WIRED SCREW TERMINALS.

TWO POLE SWITCHES: PROVIDE TWO POLE SWITCHES WHERE DRAWINGS INDICATE THE SWITCHING OF 208 VOLT SYSTEMS CONSISTING OF TWO PHASE CONDUCTORS.

SECURITY KEY SWITCHES: PROVIDE KEY SWITCHES WHERE DRAWINGS INDICATE, WHERE A DEGREE OF SECURITY REQUIRES LIMITED ACCESS TO CONTROL OF THE LIGHTING SYSTEM.

PILOT LIGHT HANDLE: HANDLE GLOWS WHEN SWITCH IS ON. HANDLE COLOR SHALL BE CLEAR, UNLESS OTHERWISE INDICATED.

RECEPTACLES:

TWENTY AMPERE RECEPTACLES: PROVIDE COMMERCIAL SPECIFICATION GRADE SINGLE OR DUPLEX RECEPTACLES, 2-POLE, 3-WIRE GROUNDING, WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW, GROUND TERMINALS AND POLES INTERNALLY CONNECTED TO MOUNTING YOKE, 20 AMPERE, 120 VOLTS, WITH METAL PLASTER EARS, SIDE WIRING, NEMA CONFIGURATION 5-20R UNLESS OTHERWISE INDICATED.

COLOR: DEVICES CONNECTED TO THE NORMAL SYSTEM SHALL BE WHITE IN COLOR, UNLESS OTHERWISE NOTED.

DEVICE TYPE: UNLESS OTHERWISE NOTED, IN ALL PUBLIC AREAS, PROVIDE ALL RECEPTACLES AS THE DUPLEX MODULAR TYPE. PROVIDE STANDARD DEVICES IN NON-PUBLIC AREAS SUCH AS STORAGE ROOMS, JANITOR'S CLOSET, PENTHOUSES & MECHANICAL SPACES. AND ELECTRICAL ROOMS.

PROVIDE CAST ALLOY OR STAMPED METAL PLATES ON EXPOSED SWITCHES AND RECEPTACLES.

INSTALL DEVICE PLATES IN FULL CONTACT WITH WALL SURFACE. PLATES SHALL NOT PROJECT OUT FROM THE WALL.

INSTALL DEVICE PLATES IN FULL CONTACT WITH SURFACE MOUNTED BOX. PLATES SHALL NOT PROJECT OUT FROM THE EDGE OF THE BOX.

ACCEPTABLE MANUFACTURERS: PASS & SEYMOUR, LEVITON OR HUBBELL

CONFIRM COLOR WITH OWNER AND ARCHITECT

H. SAFETY SWITCHES:

GENERAL: ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE, UNLESS SPECIFICALLY NOTED OTHERWISE. SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE AND SIZED AS NOTED ON THE DRAWINGS. SWITCHES SHALL BE 240 VOLT RATED ON SYSTEMS UP TO AND INCLUDING 120/240V. ALL SWITCHES SERVING MOTOR LOADS SHALL BE HORSEPOWER RATED.

PROVIDE SWITCHES WITH AN EXTERNALLY OPERATED HANDLE; QUICK MAKE QUICK BREAK MECHANISM; THE HANDLE SHALL BE INTERLOCKED WITH THE SWITCH COVER BY MEANS OF A DEFEATABLE INTERLOCK DEVICE. THE SWITCH SHALL BE LOCKABLE IN THE "OFF" POSITION WITH A PADLOCK.

I. LIGHTING FIXTURES:

LIGHTING FIXTURES SHALL BE FURNISHED AS SHOWN IN FIXTURE SCHEDULE. IT SHALL SPECIFICALLY BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXACT TYPE OF CEILING AND RECESSING DEPTH OF ALL RECESSED FIXTURES AND TO FURNISH THE MOUNTING TRIMS AND ACCESSORIES OF THE SPECIFIED AND/OR APPROVED FIXTURES FOR THE CEILING TO BE INSTALLED. FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEMS.

GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES AND REQUIREMENTS.

FEEDERS AND BRANCH CIRCUITS SHALL HAVE INSTALLED IN THE SAME RACEWAY AS THE CIRCUIT CONDUCTORS, AN INSULATED COPPER GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH

DESCRIPTION OF SYSTEM: IN GENERAL, ALL ELECTRICAL EQUIPMENT (METALLIC CONDUIT, MOTOR FRAMES, PANEL BOARDS, ETC.) SHALL BE BONDED TOGETHER WITH A GREEN INSULATED OR BARE COPPER SYSTEM GROUNDING CONDUCTOR IN ACCORDANCE WITH SPECIFIC RULES OF ARTICLE 250 OF THE N.E.C. EQUIPMENT GROUNDING CONDUCTORS THROUGH THE RACEWAY SYSTEM SHALL BE CONTINUOUS FROM MAIN SWITCH GROUND BUS TO PANEL GROUND BAR OF EACH PANEL BOARD, AND FROM PANEL GROUNDING BAR OF EACH PANEL BOARD TO BRANCH CIRCUIT EQUIPMENT AND

GENERAL NOTES

- #12 AWG NEUTRAL CONDUCTOR ALTHOUGH NOT INDICATED SHALL BE INCLUDED FOR EACH BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
- #12 AWG GREEN GROUND CONDUCTOR, ALTHOUGH NOT INDICATED SHALL BE INCLUDED IN EACH RACEWAY UNLESS OTHERWISE NOTED.
- HOME RUNS TO PANEL BOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR AND GROUND CONDUCTOR IN EACH CONDUIT.
- 4. ALL SYMBOLS SHOWN MAY NOT BE USED.

CODES AND STANDARDS

NFPA 70: NATIONAL ELECTRICAL CODE (2011)

NFPA 72:

- NATIONAL FIRE ALARM CODE (2010) STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER / DATA
- PROCESSING EQUIPMENT (2009) STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING NFPA 90A:
- STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS (2012)
- RECOMMENDED PRACTICE FOR SMOKE CONTROL SYSTEMS (2012)
- LIFE SAFETY CODE (2012)
- NFPA 110: STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS (2010)
- 2014 EDT: FLORIDA BUILDING CODE

RECEPTACLES SYMBOL DESCRIPTION DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. SINGLE RECEPTACLE, 20 AMP, 120V U.O.N. GFI - TYPE DUPLEX RECEPTACLE WP: DENOTES WEATHERPROOF COVER GFI - TYPE DOUBLE DUPLEX RECEPTACLE GFI - DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS NOTED OTHERWISE GFI - DOUBLE DUPLEX RECEPTACLE MOUNTED AT 48" **UNLESS NOTED OTHERWISE** SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED) DUPLEX RECEPTACLE - HALF SWITCHED **DUPLEX RECEPTACLE - CEILING MOUNTED** JUNCTION BOX - CEILING MOUNTED JUNCTION BOX - WALL MOUNTED JUNCTION BOX - FLOOR / GROUND MOUNTED

TELECOMMUNICATION (RACEWAY ONLY)

SYMBOL	DESCRIPTION
lacksquare	TELEPHONE / DATA OUTLET
V	TELEPHONE / DATA OUTLET, FLOOR MOUNTED
HTV	TELEVISION OUTLET

MISCELLANEOUS

HAND HOLE

ELECTRICAL METER

TRANSFORMER

EXHAUST FAN

PUSHBUTTON

3/4" PLYWOOD TELEPHONE BACKBOARD

— — CONDUIT EXPOSED

CONCRETE ENCASED DUCTBANK

MINIMUM UNLESS OTHERWISE NOTED

MINIMUM UNLESS OTHERWISE NOTED

HOMERUN TO PANEL INDICATED (CONCEALED)

WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE

NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN CONDUIT

WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT

WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT

GROUND BUS BAR

SPD

 $\overline{\Omega}$

SURGE PROTECTION DEVICE

MOTOR CONNECTION, HP: DENOTES HORSEPOWER RATING

SYMBOL	DESCRIPTION		FIRE PROTECTION LEGEND	
$ ightharpoonup rac{3P/60A}{NF}$ 3R	DISCONNECT SWITCH, NON-FUSIBLE 3 POLE, 60 AMP, NF = NON-FUSED, 3R = NEMA 3R ENCLOSURE		SYMBOL	DESCRIPTION
	DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, FUSED AT 50 AMPS, 3R = NEMA 3R ENCLOSURE		(FIRE ALARM HEAT DETECTOR - CEILING MOUNTED
¹ ⊠ 3P/60A NEMA X 3R	COMBINATION STARTER / DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, NEMA X SIZE, 3R = NEMA 3R ENCLOSURE		0	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
×	MAGNETIC MOTOR STARTER			SB: SOUNDER BASE I: IONIC CO: CARBON MONOXIDE
-	ENCLOSED CIRCUIT BREAKER, AS INDICATED	FIRE ALARM SMOKE DETECTOR - WALL MOUNTED		
	PANELBOARD, 480 / 277V	SB: SOUNDER BASE CO: CARBON MONOXIDE UF: UNDERFLOOR		CO: CARBON MONOXIDE
	PANELBOARD, 208 / 120V		8	TAMPER SWITCH
МН	MANHOLE		8	FLOW SWITCH

	SWITCHES		
SYMBOL	DESCRIPTION		
\$A	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)		
\$ 3	THREE-WAY TOGGLE SWITCH		
\$4	FOUR-WAY TOGGLE SWITCH		
\$м	MOTOR SWITCH		
\$ F	FAN SWITCH		
\$3P	THREE POSITION SELECTOR SWITCH		
\$⊤	TIMER SWITCH (60 MINUTES)		
\$LV	LOW VOLTAGE SWITCH		
\$wp	SWITCH - WEATHERPROOF		

SHEET LIST TABLE

OTTLET LIGIT TABLE			
Sheet Number	Sheet Title		
E000	ELECTRICAL LEGEND AND SPECIFICATIONS		
E100	ELECTRICAL SITE PLAN		
E201	POWER - FIRST FLOOR PLAN		
E202	POWER - SECOND FLOOR PLAN		
E301	LIGHTING - FIRST FLOOR PLAN		
E302	LIGHTING - SECOND FLOOR PLAN		
E400	PANEL SCHEDULES		
E401	LUMINARIE SCHEDULE		
E500	POWER RISER DIAGRAM		
	· ·		

SYMBOL DESCRIPTION CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED NORMAL POWER CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED LIFE SAFETY POWER / NL = NIGHT LIGHT CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED CRITICAL POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE - RECESSED SURFACE OR PENDANT MOUNTED - NORMAL POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE - RECESSED SURFACE OR PENDANT MOUNTED - LIFE SAFETY POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE - RECESSED SURFACE OR PENDANT MOUNTED - CRITICAL POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE • () • PENDANT MOUNTED - NORMAL POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE PENDANT MOUNTED - LIFE SAFETY POWER CEILING MOUNTED 1'x4' LIGHT FIXTURE PENDANT MOUNTED - CRITICAL POWER FLUORESCENT STRIP LIGHT FIXTURE - NORMAL POWER FLUORESCENT STRIP LIGHT FIXTURE - LIFE SAFETY POWER FLUORESCENT STRIP LIGHT FIXTURE - CRITICAL POWER DOWN LIGHT FIXTURE - NORMAL POWER DOWN LIGHT FIXTURE - LIFE SAFETY POWER DOWN LIGHT FIXTURE - CRITICAL POWER WALL MOUNTED LIGHT FIXTURE - NORMAL POWER WALL MOUNTED LIGHT FIXTURE - LIFE SAFETY POWER WALL MOUNTED LIGHT FIXTURE - CRITICAL POWER EMERGENCY LIGHT UNIT EXIT LIGHT - SINGLE FACE WITH DIRECTIONAL ARROW EXIT LIGHT - DOUBLE FACE EXIT LIGHT - WALL MOUNTED

LIGHTING

	SWITCHES
SYMBOL	DESCRIPTION
\$ A	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
\$ 3	THREE-WAY TOGGLE SWITCH
\$4	FOUR-WAY TOGGLE SWITCH
\$м	MOTOR SWITCH
\$ F	FAN SWITCH
\$ 3P	THREE POSITION SELECTOR SWITCH
\$⊤	TIMER SWITCH (60 MINUTES)
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E302	LIGHTING - SECOND FLOOR PLAN				
E400	PANEL SCHEDULES				
E401	LUMINARIE SCHEDULE				
E500	POWER RISER DIAGRAM				
	·				

AND SPECIFICATIONS

E000

CONSULTING ENGINEERS

220 WEST 7th Avenue, Suite 210

Tampa, Florida 33602 Tel: 888.891.9713

www.VoltAirEngineers.com

LL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE

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DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF

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PERMIT SET

Revisions / Submissions

NEDIM MUJBEGOVIC

100 E. MADISON STREET, SUITE 100

TAMPA, FLORIDA 33602

BAKERBARRIOS.COM

INFO@BAKERBARRIOS.COM

PE #74728

813.549.1900

| D. | Cł

Project No: 01.15.126

COA #27158

11/22/2016

MINIMUM BUILDING CODES.

Baker Barrios

AA0002981 + LC26000427

400 CLEVELAND, LLC.

130270.00

400 CLEVELAND STREET

CLEARWATER, FLORIDA 33755

THE SKYVIEW

AMENITY/PARKING

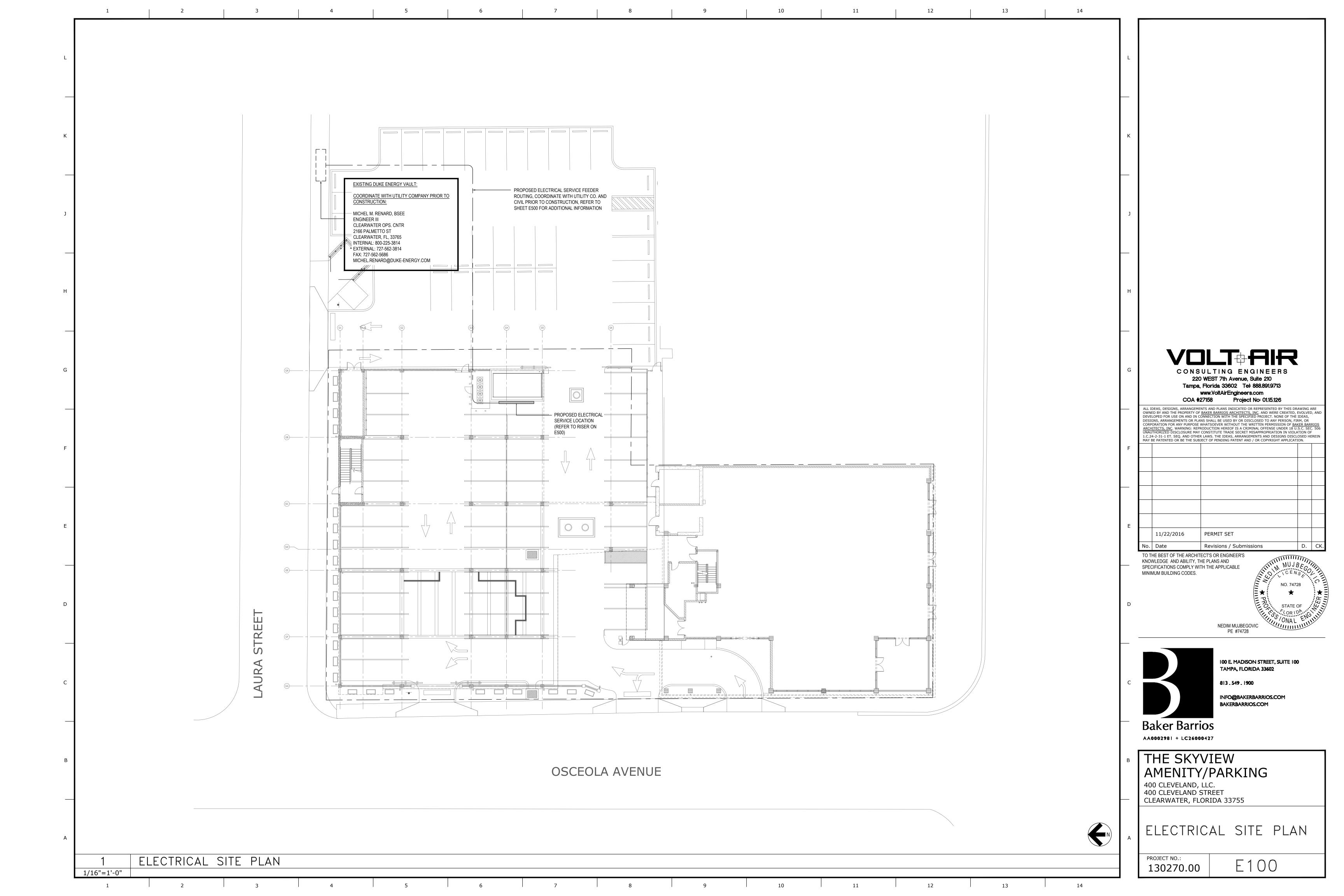
ELECTRICAL LEGEND

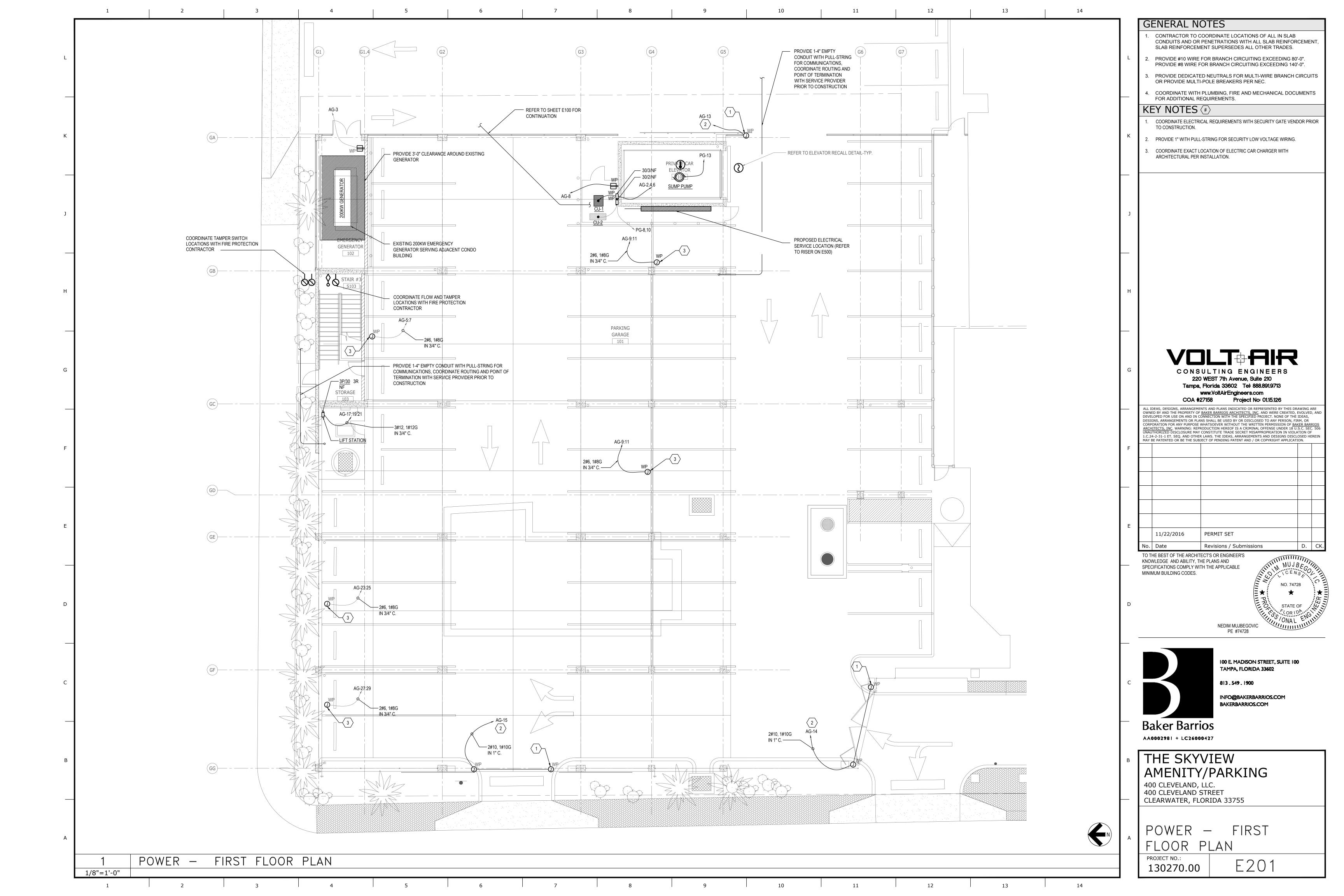
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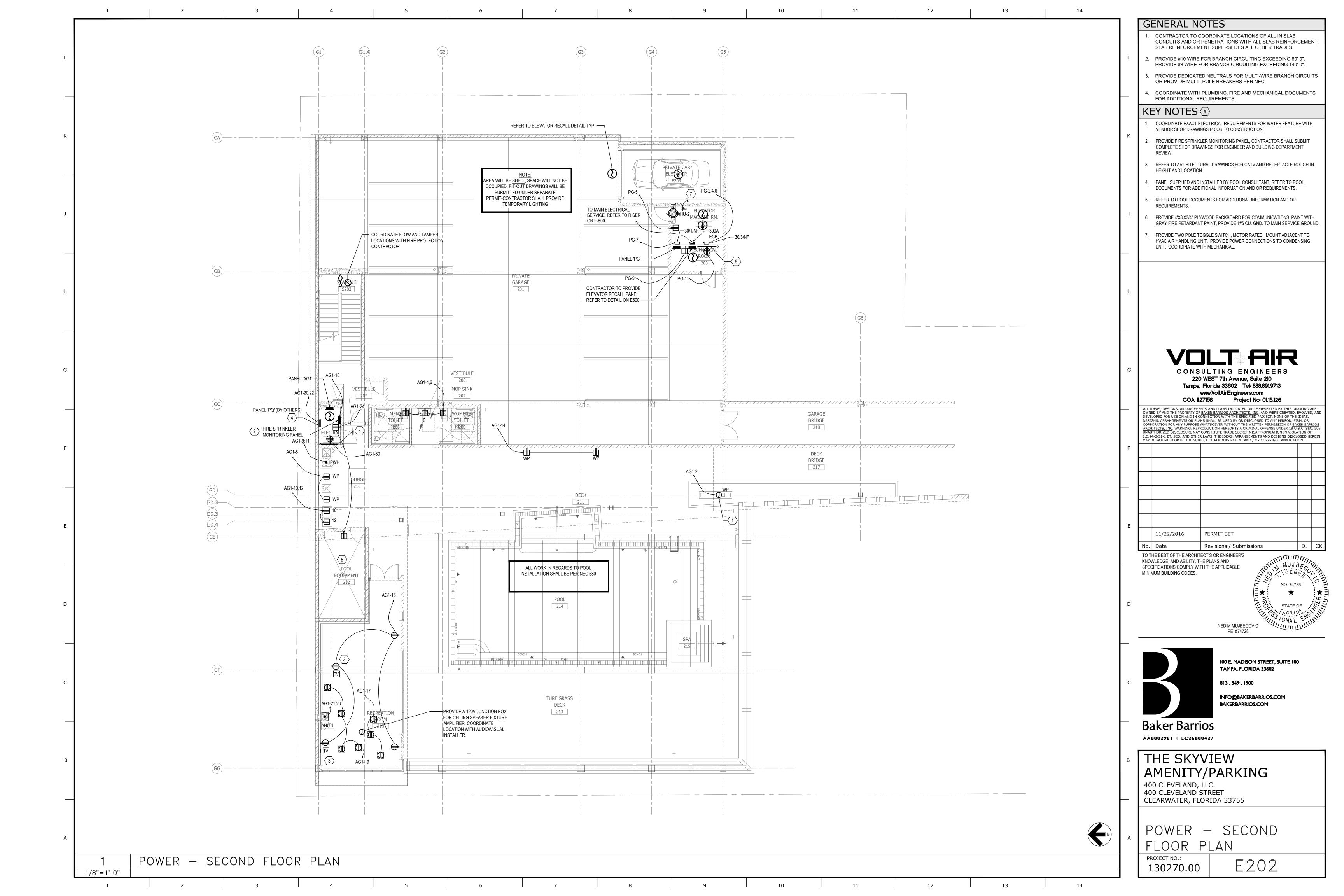
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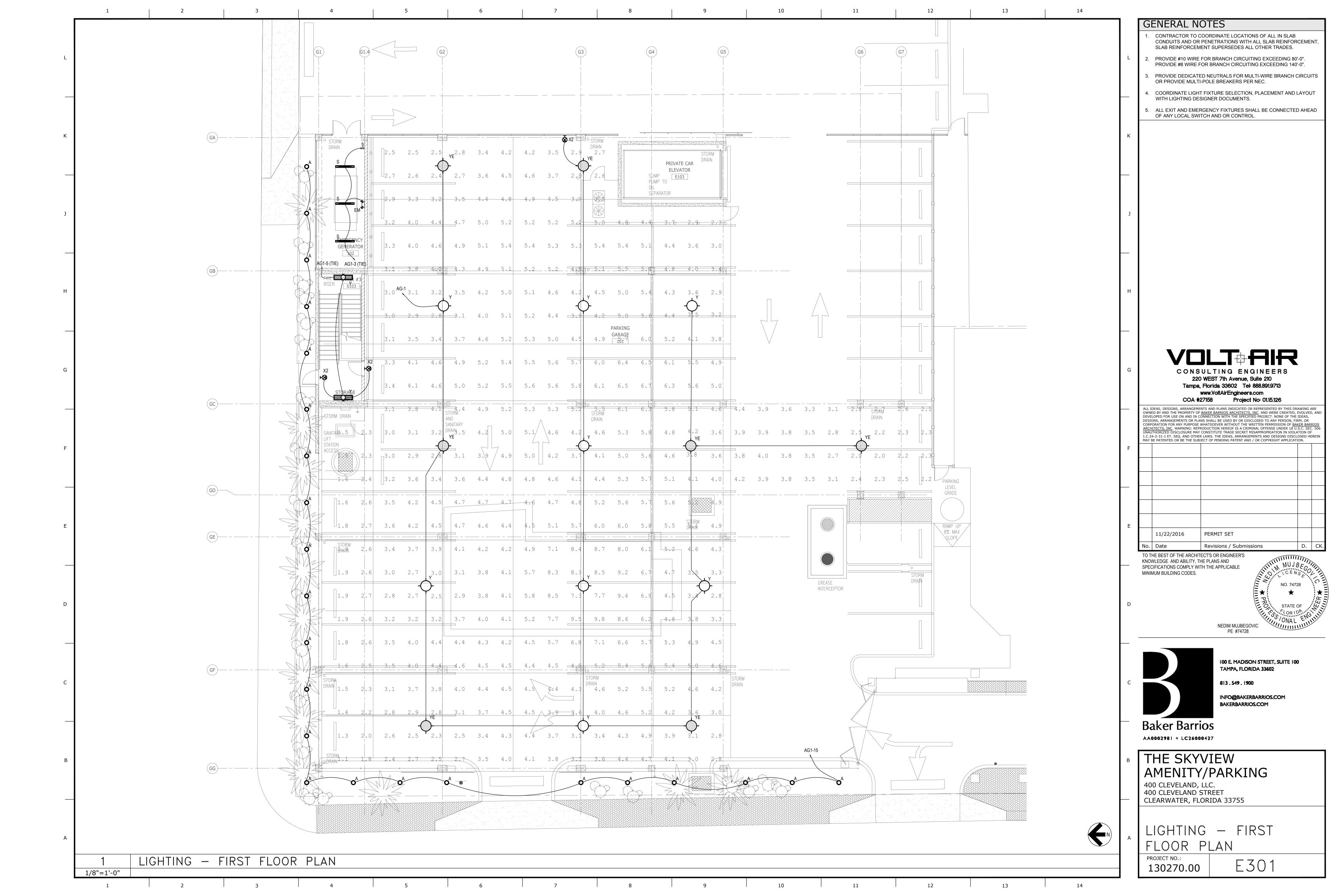
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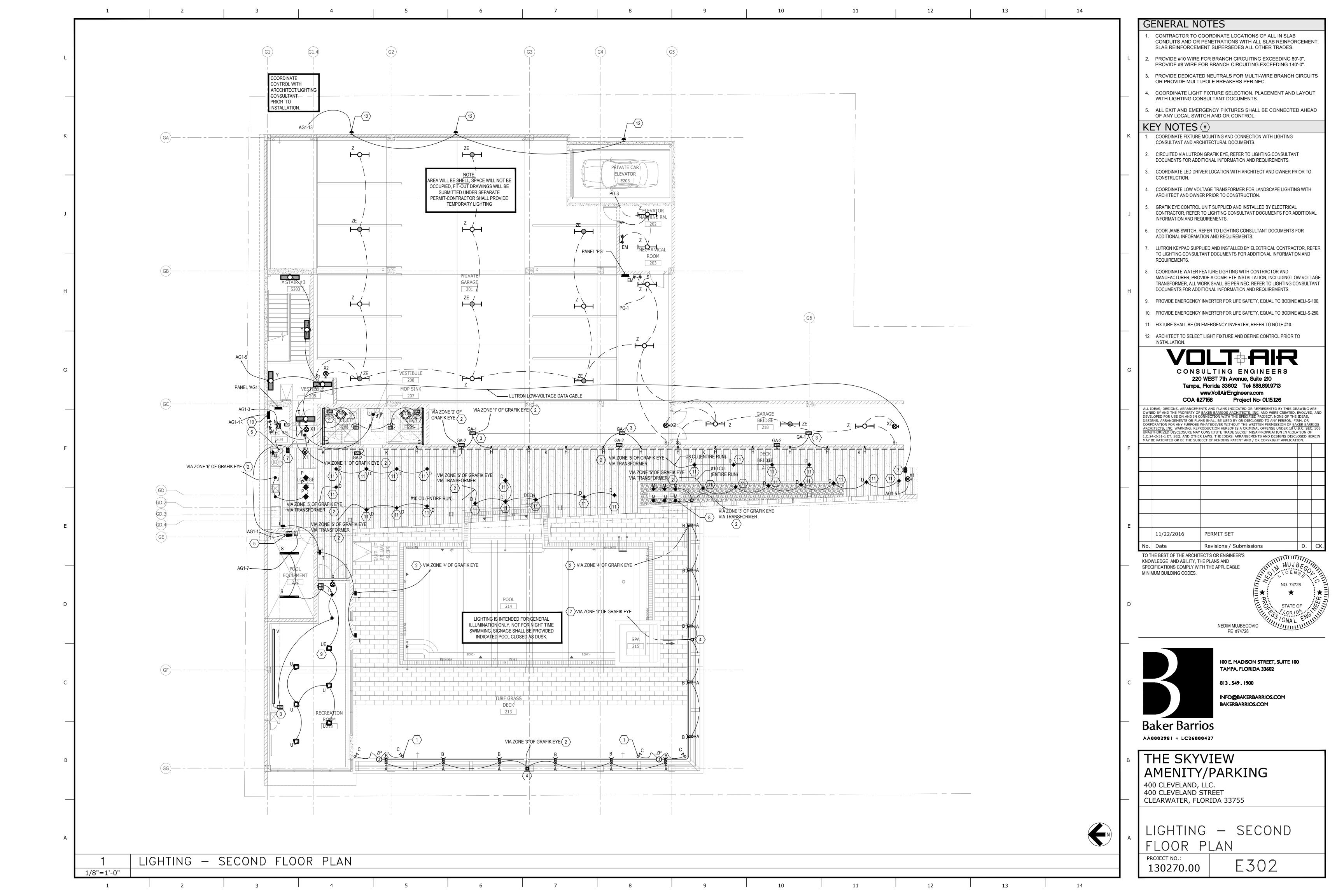
ELECTRICAL LEGEND AND SPECIFICATIONS











1 2 3 4 5 6 7	8 9 10 11 12 13 14	
MAIN BREAKER	MAIN BREAKER MAIN LIUSS AMPS	L К
A/C "A": 4.160 KVA @ 1.00 DF = 4.160 KVA KITCHEN "K": 0.000 KVA @ .65 DF = 0.000 KVA MOTOR "M": 0.000 KVA. TOTAL + 25% OF LARGEST = 0.000 KVA	A/C "A": 4.140 KVA @ 1.00 DF= 4.140 KVA KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA	
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA MISC "S": 5.200 KVA @ 1.00 DF= 5.200 KVA	MISC "S": 84.428 KVA @ 1.00 DF = 84.428 KVA NOTES: 1 LOAD BASED ON HEATING.	Н
	MAIN SREAKER AMPS 228 AMPS	CONSULTING ENGINEERS 220 WEST 7th Avenue, Suite 210 Tampa, Florida 33602 Tel 888,8919713 www.VoltAirEngineers.com COA 427/58 Project No 'O1,5126 ALLIDAS, CESCOR, ADMANGEMENTS AND PLANS INJUCITED ON REPRESENTE NY THIS DRAWING AND DEVICED FOR AND IN CONTINUE ON REPRESENTED PROTECT. ON REOTHER TO PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION IT AN PURPOSE WHICH CONTINUE THE WITTER PROTESTION OF AND DESCRIPTION OF AN INFORMATION OF THE WITTER PROTESTION OF AND THE DESCRIPTION OF A PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION OF AN INFORMATION OF THE WITTER PROTESTION OF THE DESCRIPTION OF THE WITTER PROTESTION OF THE WITTER PROTESTION OF THE DESCRIPTION OF THE WITTER PROTESTION OF THE WITTER PROTESTION OF THE DESCRIPTION OF THE WITTER PROTESTION OF THE DESCRIPTION OF THE WITTER PROTESTION OF THE DESCRIPTION OF THE WITTER PROTESTION OF THE WITTER PR
		Baker Barrios AA0002981 + LC26000427 B THE SKYVIEW AMENITY/PARKING 400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755
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1 PANEL SCHEDULES N.T.S.		PROJECT NO.: 130270.00 E400
1 2 3 4 5 6 7	8 9 10 11 12 13 14	

		4414	Av. Vallarta 1540 - 108 Col. Americana 40 Guadalajara, Jal. Mexico		
	TYPE	Te DESCRIPTION	MANUFACTURER	LAMP TYPE	VOLTAG
	A	STAKE MOUNTED LED PLANTER LUMINAIRE	FOCUS INDUSTRIES #DL-15-LEDP412V-BLT DB-12-60LED	LED	12V
	В	LED STEP LIGHT	WAC LIGHTING #WL-LED100-C-BN	LED	120V
	С	LED OUTDOOR TASK LIGHT	FOCUS INDUSTRIES #BQ-08-FD36-MR16120V-SS	35W MR16	120V
	D	RECESSED LED	WAC LIGHTING #HR-2LED-T209N-W-BN	LED	120V
	F	LED WALL SCONCE	MODERN FORMS #WS-3418-CH	LED	120V
	G	LED COVE LIGHT	KLUS #K-30-1220-24V/(2 x 7-ft) MICRO-ALU + (14) 1072 KLUS #LPV-35-24	LED	24V
	Н	LED NICHE LIGHT	KLUS #K-30-1220-24V/PDS4ALU-IP67 + 17031 + 1056 + 1057 + 1072 (2 per fixture) KLUS #LPV-100-24	LED	24V
	J	2" RECESSED LED	WAC LIGHTING #HR-2LED-R09D-A	LED	120V
ELICATE DE LA CALLACACIÓN DEL CALLACACIÓN DE LA	К	LED DECK NICHE LIGHT	KLUS #K-30-1210-24V/(118 ft) PDS4ALU-IP67 + (118 ft) 1369 + 1056 + (120) 1072 KLUS #LPV-100-24	LED	24V
	M	LED FEATURE LIGHT	FOCUS INDUSTRIES #SL-20-SMGMR16-BLT + FL-LED- MR16BAB + DB-12-60LED	LED	12V
	N	SURFACE MOUNT LED LIGHT	LUMENRON #WS700S-N318J-UNV-N	LED	120V
	P	PENDANT LIGHT	HINKLEY #ARIA 2302Kz	LED/PHILIPS 8A19/SLIM/2700 DIM 6/1	120V
	Q	WALL MOUNTED SCONCE	ACCESS #20290 NAUTICUS	LED/PHILIPS 8A19/SLIM/2700 DIM 6/2	120V
	S	VAPORTIGHT FLUORESCENT	METALUX #VT1-1-54T5-PCR-UNV-GL-EBT1- WL-C6	1-54W T5HO	120V
	Т	LED WALL SCONCE	LIG MAN LIGHTING USA #UGI-31601-2x8W-W30-120V-F-04	LED	120V
	U	SURFACE MOUNT LED LIGHT	TECH LIGHTING #700FMRHNS-WW	LED	120V
	UE	SURFACE MOUNT LED LIGHT	TECH LIGHTING #700FMRHNS-WW PROVIDE WITH EMERGENCY INVERTER BODINE #ELI-S-100	LED	120V

V 161.161.161		LED NICHE LIGHT	KLUS #K-30-1210-24V/(16-ft) 18019WNA + (2) 24101/(16-ft) PDS4ALU + (16-ft) 17031 + 1056 + 1057 KLUS #LPV-35-24	LED	24V
TO ATT BEEF					
			SELECTIONS BELOW WITH		
			Consulting Engineers		
			Tampa Office		
			7th Avenue, Suite 210 pa, Florida 33602		
			4899 F: 813-867-4566		
CONTRACTOR OF THE PARTY OF THE	W	LED GARAGE LIGHT	LITHONIA #PGX-LED-P2-40K-T5M-MVOLT-PIR	LED	120
ATTITUTE TO THE PARTY OF THE PA	WE	LED GARAGE LIGHT-EMERGENCY	LITHONIA #PGX-LED-P2-40K-T5M-MVOLT-PIR-ELCW	LED	120
	Y	SURFACE MOUNT STAIR LIGHT	COLUMBIA #BIL-4-2-32-EP-120-EL	2-F32 T8	120
7.33	Z	4' FLUORESCENT STRIP	LITHONIA #C-232-MVOLT	2-F32 T8	120
	ZE	4' FLUORESCENT STRIP W/EMERGENCY BATTERY BALLAST	LITHONIA #C-232-MVOLT-EL	2-F32 T8	120
0.0	EM	SURFACE MOUNTED EMERGENCY LIGHT	LITHONIA #ELM6W-DL	LED	120
<exit></exit>	X	SURFACE MOUNTED EXIT SIGN	LITHONIA #EGDR-W-1-R-EL	LED	120
<exit></exit>	X1	SURFACE MOUNTED EXIT SIGN	LITHONIA #EGDR-W-1-R-EL	LED	120
<exit></exit>	X2	SURFACE MOUNTED EXIT SIGN	LITHONIA #LQM-S-W-3-R-120/277-ELN	LED	120

CONSULTING ENGINEERS 220 WEST 7th Avenue, Suite 210 Tampa, Florida 33602 Tel: 888.891.9713 www.VoltAirEngineers.com COA #27158 Project No: 01.15.126

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Revisions / Submissions

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

NEDIM MUJBEGOVIC PE #74728



100 E. MADISON STREET, SUITE 100 TAMPA, FLORIDA 33602 813.549.1900

INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM

Baker Barrios AA0002981 + LC26000427

THE SKYVIEW AMENITY/PARKING

400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755

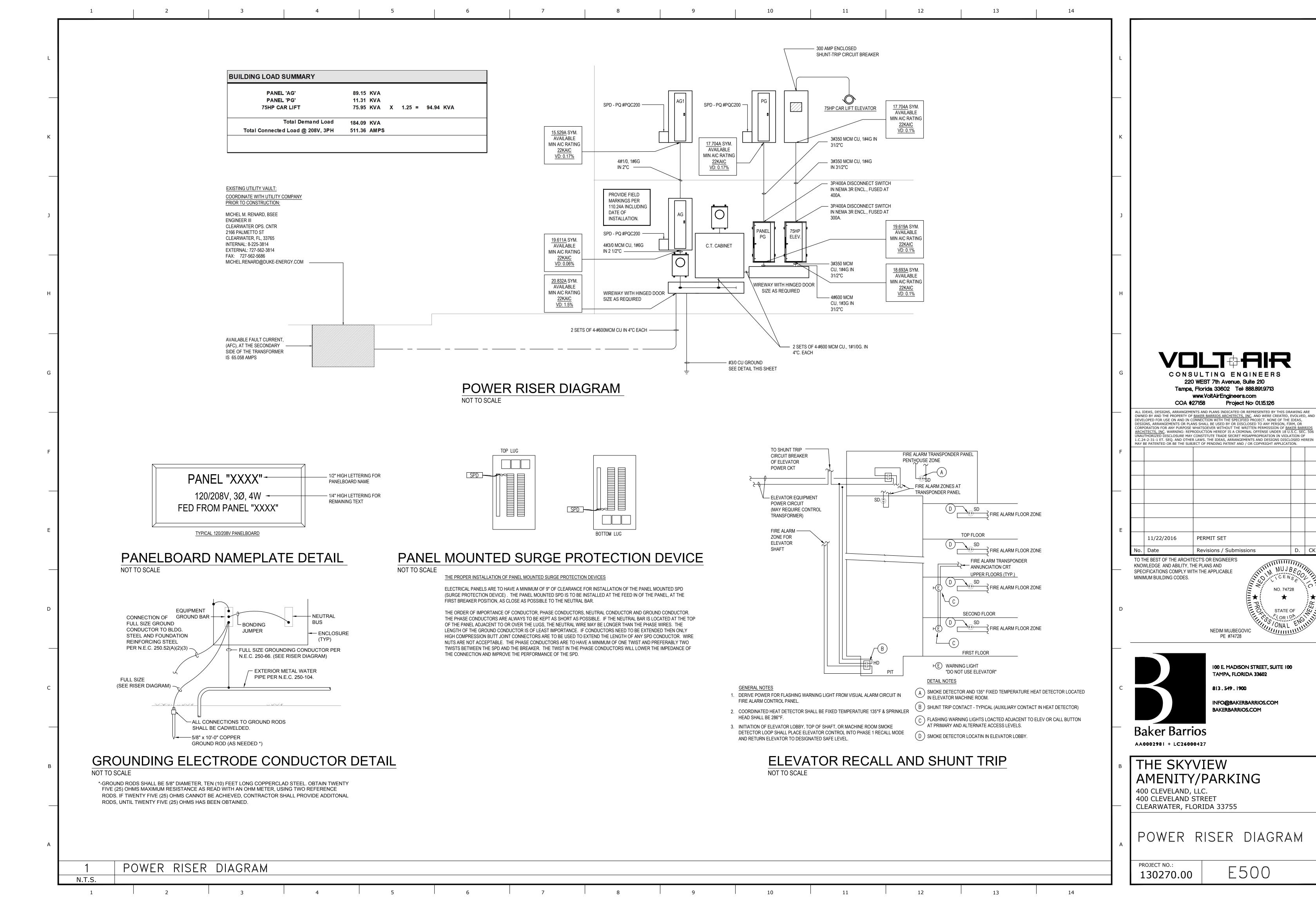
E401

LUMINARIE SCHEDULE

N.T.S.

LUMINARIE SCHEDULE

130270.00



GENERAL PROVISIONS 1.02 REGULATIONS AND PERMITS: ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS: 4.PIPE THREAD PATTERN: ALL THREADS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT SPECIFICATIONS AND NFPA 1963. 1.03 DESCRIPTION OF WORK: ALL MEASUREMENTS. 1.04 PRODUCT HANDLING: RECEIVED FROM THE MANUFACTURER. EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE NFPA 13 CODE. 2.01 MANUFACTURER 2.02 SPRINKLER HEADS 2.03 PIPE AND FITTINGS A. ABOVE GROUND PIPE AND FITTINGS: CONNECTION FOR TEE FITTING, POTTER ELECTRIC SIGNAL CO. VSR-F. 2.05 INSPECTORS TEST AND DRAIN THREADED CONNECTIONS, POTTER-ROEMER 6171/6172/6173/6174. 9. POWDER-DRIVEN INSERTS SHALL NOT BE ACCEPTED. 2. ACCEPTABLE MANUFACTURERS: HILTI AND 3M. EXECUTION 3.01 INSTALLATION

FIRE PROTECTION SYSTEM SPECIFICATIONS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1

SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

ALL WORK SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS.

1. FLORIDA BUILDING CODE 2014, 5TH EDITION

2 FLORIDA FIRE PREVENTION CODE 2014 5TH EDITION 3. EDITIONS OF THE NFPA NATIONAL FIRE CODES (NFPA), OR THE LATEST REVISIONS OF THESE CODES AS ADOPTED BY THE AUTHORITY HAVING LAWFUL JURISDICTION, AS FOLLOWS: NFPA - FIRE SPRINKLER SYSTEM: THE FIRE SPRINKLER PROTECTION SYSTEMS INSTALLATION, FLUSHING AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13, 24 AND 25.

5.UL/FM APPROVAL: ALL EQUIPMENT, PIPING, FITTINGS, VALVES, COUPLINGS, HANGERS AND DEVICES SHALL BE APPROVED BY UNDERWRITERS' LABORATORY (UL) AND FACTORY MUTUAL (FM) FOR USE IN FIRE PROTECTION SERVICE. 6.LICENSER: THE FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A STATE OF FLORIDA LICENSED FIRE PROTECTION CONTRACTOR.

THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY FOR ALL FEES, CHARGES, AND PERMITS REQUIRED, AS WELL AS FOR ALL HAULING, RIGGING, AND TRANSPORTATION CHARGES.

THE WORK INCLUDED IN THIS SECTION SHALL COMPRISE ALL LABOR, MATERIALS, EQUIPMENT, MACHINERY AND SERVICE INCIDENTAL TO THE DEMOLITION AND WORK TO KEEP EXISTING AREAS IN OPERATION.

THE CONTRACTOR SHALL LAY OUT HIS OWN WORK AND COORDINATE HIS WORK WITH THAT OF OTHER TRADES AND BE RESPONSIBLE FOR

ALL WORK SHALL BE SUBJECT TO APPROVAL OF OWNER OR HIS REPRESENTATIVE.

THE FIRE PROTECTION CONTRACTOR SHALL SURVEY SITE AND STUDY CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. ALL PROBLEMS CONCERNING COORDINATION OF DIFFERING TRADES, INTERFERENCE, LACK OF CEILING CAVITY SPACE, OR ANY PROBLEMS IN UNDERSTANDING THE SPECIFICATIONS HEREIN AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER

THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL BUILDING CONDITIONS PRIOR TO START OF WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON PLAN THAT AFFECT THE WORK SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION IMMEDIATELY.

CONTRACTOR SHALL CHECK SIZE OF ENTRANCE WAYS TO MAKE SURE SUFFICIENT SPACE IS AVAILABLE FOR ENTRANCE OF EQUIPMENT. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING FIRE PROTECTION SYSTEMS

INDICATED ON THE DRAWINGS AND WITHIN THIS SPECIFICATION SECTION. FURNISH AND INSTALL ALL CONDENSATE DRAIN.

FURNISH AND INSTALL ALL TEMPERATURE CONTROLS AS HEREINAFTER SPECIFIED.

A. ALL MATERIALS SHALL BE HANDLED AND STORED IN A MANNER SO AS TO PREVENT DAMAGE. MATERIALS SHALL BE STORED UNDER COVER AND ABOVE GROUND. ALL PRODUCTS SHALL BE SHIPPED TO THE JOB SITE IN UNOPENED CARTONS, CONTAINERS, ETC., AS

CODES AND STANDARDS: ALL FIRE PROTECTION WORK SHALL BE IN STRICT COMPLIANCE WITH NFPA 13 & 14, FLORIDA LIFE SAFETY CODE AND ALL LOCAL CODES HAVING JURISDICTION.

CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION. PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND

A. SINGLE MANUFACTURER: ALL ITEMS OF A SIMILAR TYPE SHALL BE BY THE SAME MANUFACTURER.

PROVIDE SPRINKLER HEADS OF PROPER TYPES, RATINGS, AND SPACING FOR THE AREAS INVOLVED, AS INDICATED ON THE SPRINKLER LEGEND LOCATED ON THE DRAWINGS. PROVIDE APPROPRIATE FINISHES COMPATIBLE WITH SPACE FINISHES BEING SERVED. ACCEPTABLE MANUFACTURERS: VIKING, GRINNELL, AUTOMATIC SPRINKLER, CENTRAL, STAR, AND RELIABLE.

SPARE FIRE SPRINKLER HEAD CABINET: PROVIDE SUFFICIENT SPARE SPRINKLER HEAD CABINETS TO STORE THE REQUIRED QUANTITIES OF SPRINKLER HEADS. STORAGE CABINETS SHALL BE RED GLOSS, POLYESTER-COATED STEEL CONSTRUCTION. PROVIDE A MINIMUM OF SIX SPARE HEADS OF EACH TYPE AND EACH DIFFERENT TEMPERATURE RATING INSTALLED; PROVIDE 2 INSTALLATION TOOLS OR WRENCHES WITH EACH DIFFERENT TYPE OF SPRINKLER HEAD. CABINET SHALL HAVE CATCH-LOCK AND CONTINUOUS PIANO HINGE. LOCATE THE SPARE SPRINKLER HEAD CABINET AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

1. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A135 OR ASTM A53, AND SCHEDULE 10, ASTM A135. 2. THREADABLE THIN WALL BLACK STEEL PIPE CONFORMING TO ASTM A135, OR ASTM 795, WITH A CORROSION RESISTANCE RATING (CRR) OF 1.0 OR GREATER AS MANUFACTURED BY AMERICAN TUBE COMPANY, DYNA-THREAD-40 OR EQUIVALENT.

a. CAST IRON THREADED FITTINGS, ANSI B16.4 CLASS 125.

b. CAST IRON FLANGED FITTINGS, ANSI B16.1 CLASS 125. MECHANICAL JOINT, GROOVED COUPLINGS, AS MANUFACTURED BY VICTAULIC, ANVIL, OR CENTRAL, ALL GROOVE COUPLINGS AND

FITTINGS SHALL BE FURNISHED BY A SINGLE MANUFACTURER.

2.04 SUPERVISORY SWITCHES AND WATER FLOW DEVICES A. ACCEPTABLE MANUFACTURERS: POTTER ELECTRIC SIGNAL CO., POTTER-ROEMER, SIMPLEX, GEM. GATE VALVE TAMPER SWITCH: PROVIDE AN ELECTRONIC SUPERVISORY TAMPER SWITCH ON EACH ISOLATION VALVE IN THE SPRINKLER

SYSTEM. UNIT SHALL HAVE A RED TAMPER-PROOF COVER, WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED. PROVIDE UNIT WITH SINGLE-POLE, DOUBLE THROW SWITCHES, AND MOUNTING BRACKET, POTTER ELECTRIC SIGNAL CO. OSYSU-1 FLOW SWITCH: PROVIDE AN ELECTRIC FLOW SWITCH WHERE INDICATED OR REQUIRED. FLOW SHALL BE SENSED BY AN IMMERSION PADDLE, WITH AN ADJUSTABLE RETARD SETTING FROM 0 TO 70 SECONDS TO MINIMIZE FALSE ALARMS. FLOW SWITCH SHALL HAVE SINGLE POLE, DOUBLE THROW SWITCHES TO ACTIVATE A FLOW ALARM, OR TO INDICATE A TROUBLE SIGNAL IF THE FLOW SWITCH HOUSING IS TAMPERED. FLOW ALARM SHALL BE AUTOMATICALLY RESETTING. PROVIDE CLAMP-ON HOUSING TO SECURE UNIT TO PIPE, OR THREADED

ACCEPTABLE MANUFACTURERS: G/J INNOVATIONS, AGF MANUFACTURING AND TEST DRAIN. SIGHT DRAIN: SIGHT DRAIN SHALL HAVE 2 VIEW WINDOWS TO PROVIDE VISUAL OBSERVATION OF WATER FLOW, AND SHALL HAVE FEMALE

INSPECTOR'S TEST AND DRAIN: TEST AND DRAIN SHALL BE PROVIDED WITH INTEGRAL SIGHT GLASS, INTEGRAL 1/2 INCH TEST ORIFICE AND POSITIVE POSITIONING OF HANDLE FOR OFF, TEST AND DRAIN OPERATIONS, G/J INNOVATIONS, INC "SURE-TEST"

HANGERS, SUPPORTS, AND SLEEVES:

1. SUPPORT PIPING WITH UL AND FM APPROVED HANGERS. HANGERS AND RODS SHALL BE GALVANIZED. 2. ACCEPTABLE MANUFACTURERS: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN AND PHD.

3. ADJUSTABLE CLEVIS HANGER: GRINNELL FIG. 260.

4. ADJUSTABLE SWIVEL LOOP HANGER: GRINNELL FIG. 69.

5. BEAM CLAMP: GRINNELL FIG. 92 AND GRINNELL FIG. 218. 6. CONCRETE FASTENERS: GRINNELL STEEL SHELL AND EXPANDER PLUG.

7. CONCRETE INSERT: GRINNELL FIG. 152.

8. RISER CLAMP: GRINNELL FIG. 261.

10. THREADED RODS SHALL BE GALVANIZED COATED. ALL HANGERS SHALL BE GALVANIZED COATED.

1. ALL PIPES PASSING THROUGH RATED FLOORS OR WALLS SHALL BE SLEEVED AND FIRE STOPPED TO AN EQUIVALENT RATING OF THE FLOOR OR WALL ASSEMBLY. FIRE STOP MATERIALS SHALL MEET ASTM E814 REQUIREMENTS.

HANGERS: ALL HANGER SPACING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA-13.

SPRINKLER HEAD LOCATION: SPRINKLER HEADS SHALL BE INSTALLED NO CLOSER THAN 4 INCHES TO ANY CEILING GRID OR WALL. FLUSHING: THE ENTIRE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER TO REMOVE DEBRIS RESULTING FROM INSTALLATION. FLUSH

THROUGH A BURLAP BAG TO RETAIN DEBRIS FOR EXAMINATION. PROHIBITED: DO NOT PAINT THE COVERS OF CONCEALED SPRINKLERS.

PROVIDE DRAIN VALVES, PIPES AND TEST CONNECTIONS AS REQUIRED BY NFPA-13. PIPE DRAIN LINES AND TEST CONNECTIONS TO THE EXTERIOR OF THE BUILDING OR AS INDICATED ON THE DRAWINGS.

DRAIN PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPING 5 GALLONS OR LESS. AUXILIARY DRAIN VALVES, 3/4 INCH OR LARGER AND PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPE GREATER THAN 5 GALLONS.

A. GENERAL: ABOVE GROUND AND BELOW GROUND PIPING SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF 2 HOURS. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED. THE UNDERGROUND PIPING SHALL NOT HAVE LEAKAGE EXCEEDING THE AMOUNTS SPECIFIED IN NFPA 24. LEAKAGE QUANTITIES SHALL BE DETERMINED BY PUMPING AT THE SPECIFIED TEST PRESSURE FROM A CALIBRATED CONTAINER. REPAIR LEAKING JOINTS AND RETEST AS NECESSARY UNTIL ALL SYSTEMS HAVE BEEN TESTED. TEST THE PIPING BETWEEN THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE AND THE OUTSIDE CONNECTION THE SAME AS THE BALANCE OF THE SYSTEM.

FAC 61G15 COMPLIANCE NOTES

FAC 61G15 COMPLIANCE NOTES

APPLICABLE CODES AND STANDARDS:

FLORIDA BUILDING CODE 2010 EDITION FLORIDA FIRE PREVENTION CODE 2014 5TH EDITION FLORIDA ADMINISTRATIVE CODE 61G15 NFPA-13, 2010 EDITION

NFPA-25, 2010 EDITION (A) POINT OF SERVICE:

NFPA-24, 2010 EDITION

THE POINT OF SERVICE IS AN EXISTING FIRE MAIN ENTERING THE BUILDING STAIRWELL, IT IS ROUTED INTO RISER ZONES PRIOR TO BEING EXTENDED TO THE SPRINKLER SYSTEM. FIRE DEPARTMENT CONNECTION IS INSTALLED AT THE BUILDING EXTERIOR.

(B) APPLICABLE NFPA STANDARDS TO BE APPLIED: SHALL COMPLY WITH N.F.P.A. 13, & 16 ACCEPTANCE SECTION: 20 2010 CHAPTER 16.1 APPROVAL OF SPRINKLER SYSTEM 16.2 ACCEPTANCE REQUIREMENTS.

16.3 CIRCULATING CLOSED LOOP SYSTEM 16.4 INSTRUCTION 16.5 HYDRAULIC DESIGN INFORMATION SIGNS

(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

LIGHT HAZARD AREAS: POOL DECK SITTING AREA, CORRIDOR, TOILET ROOM.

ORDINARY HAZARD GROUP I: PARKING GARAGE, STORAGE ROOMS, MECH. ROOMS.

(D) DESIGN APPROACH:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY PENDENT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS. DESIGN APPROACH TO FOLLOW NFPA 13-2007 EDITION.

.10 GPM/SQ, FT

1500 SQFT MAX.

155 DEGREE F

225 SQFT

AREA OF OPERATION: HEAD TEMPERATURE RATING: MAX. COVERAGE PER SPRINKLER:

A HOSE DEMAND OF 100 GPM WILL BE ADDED FOR LIGHT HAZARD CALCULATIONS.

MECHANICAL / ELECTRICAL ROOMS/PARKING GARAGE: SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY UPRIGHT OR PENDENT, QUICK RESPONSE,

AUTOMATIC FIRE SPRINKLER LOCATIONS. .15 GPM/SQ. FT. AREA OF OPERATION: 1500 SQFT MAX. HEAD TEMPERATURE RATING:

155 DEGREE F MAX. COVERAGE PER SPRINKLER: 130SQFT

(E) CHARACTERISTICS OF THE WATER SUPPLY TO BE USED: THE WATER SUPPLY IS PROVIDED FROM AN EXISTING PUBLIC WATER PURVEY

(F) FLOW TEST DATA:

CIRCULATING MAIN.

THE FIRE FLOW TEST IS NOT AVAILABLE WILL BE EVALUATED BY DELAGATED

(G) VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

THE FIRE SPRINKLER RISER FOR THIS BUILDINGS ARE EQUIPPED WITH A WATER FLOW SWITCH WITH A LOCAL ALARM AND OFF-SITE MONITORING. SUPERVISED BACKFLOW PREVENTION DEVICE AND FIRE DEPARTMENT CONNECTION SHALL BE

(H) MICROBIAL INDUCED CORROSION (MIC):

AS OF THIS DATE THE FIRE MARSHAL HAS SIGNED A LETTER STATING THAT THERE HAVE BEEN NO UNUSUAL PIPE FAILURES IN ANY SPRINKLER SYSTEMS THAT WOULD INDICATE MIC IS PRESENT. THIS FINDING IS ACCEPTABLE BY THE ENGINEER OF

BACKFLOW PREVENTION AND METERING SPECIFICATIONS:

THE BACKFLOW PREVENTION: WATTS LF757DCDA (J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE

PROTECTION COMPONENTS: ALL NEW YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED

FOR FIRE PROTECTION SERVICE AND FM APPROVED. SCOPE OF WORK:

> PROVIDE A RENOVATED FULLY AUTOMATIC WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. MAINTAIN A FIRE WATCH IF ANY OF THE FIRE PROTECTION SYSTEMS HAVE BEEN DISABLED. FIRE PROTECTION CONTRACTOR SHALL SUBMIT PIPING SHOP DRAWINGS FOR PERMIT TO THE FIRE MARSHAL DRAWING SHALL BE 1/8" SCALE PIPING SHOP DRAWINGS AS PRESCRIBED IN SPECIFICATIONS AND AS REQUIRED BY LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE SPRINKLER PIPING CUT LENGTHS. OFFSETS. FITTINGS AND DEVICES. ELEVATIONS. HANGER LOCATIONS. SPRINKLER HEAD COUNT BY TYPE. ELEVATION SECTIONS HYDRAULIC CALCULATIONS AND OTHER INSTALLATION INFORMATION. THIS SHOP DRAWING MUST BE SIGNED AND SEALED BY A DELEGATED ENGINEER.

GENERAL NOTES

FIRE PROTECTION SYSTEM TO COMPLY WITH THE CURRENTLY ADOPTED VERSION OF NFPA 13, 24, 25 FLORIDA BUILDING CODE AND STATE FIRE PREVENTION CODE.

2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.

SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION.

PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.

5. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE. PREP, PRIME AND PAINT ALL EXPOSED PIPING TO COLOR AS REQUIRED BY THE ARCHITECT. DO NOT PAINT SPRINKLER

6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND

SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.

8. SPRINKLER LOCATIONS SHALL BE CENTERED IN THE TILE AS INDICATED ON THE DRAWINGS, OR IN HARD CEILING AREAS CENTERED BETWEEN LIGHTS. PROVIDE ARMOVERS OR SWING JOINTS AS REQUIRED.

SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE-PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE-PROOFING.

10. SLEEVE ALL PIPING PENETRATIONS THROUGH WALLS, CEILING, AND FLOORS. SLEEVE AND/OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING, OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL

11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND

REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.

12. PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE

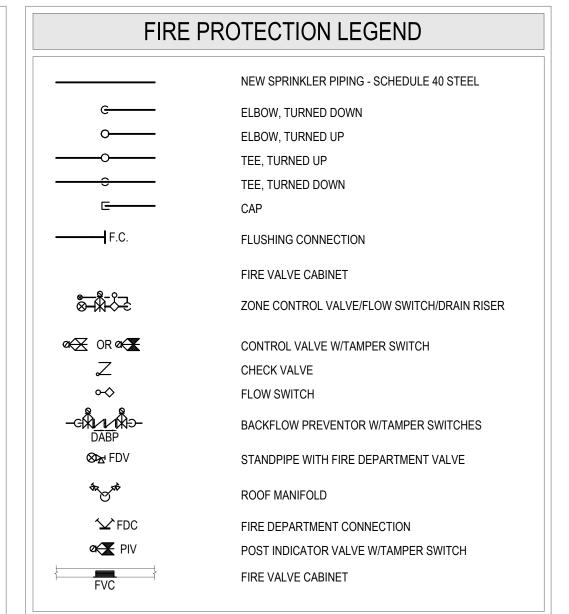
13. PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS. THESE SPRINKLERS ARE NOT INDICATED, BUT ARE REQUIRED.

14. PROVIDE SPRINKLER GUARD ON ALL HEADS IN MECHANICAL ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS, AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.

15. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.

16. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (SERVERS, COMM., ELEC. PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.

17. FIRE DEPARTMENT CONNECTIONS TO SPRINKLER SYSTEMS, YARD HYDRANTS OR ANY OTHER FIRE HOSE CONNECTION SHALL BE COMPATIBLE WITH THE CONNECTIONS USED BY THE LOCAL FIRE DEPARTMENT.



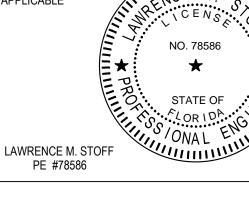
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Project No: 01.15.126

Revisions / Submissions TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.



100 E. MADISON STREET, SUITE 100

TAMPA, FLORIDA 33602

INFO@BAKERBARRIOS.COM

BAKERBARRIOS.COM

813.549.1900

| D. | CI



AA0002981 + LC26000427

THE SKYVIEW AMENITY/PARKING 400 CLEVELAND, LLC. 400 CLEVELAND STREET

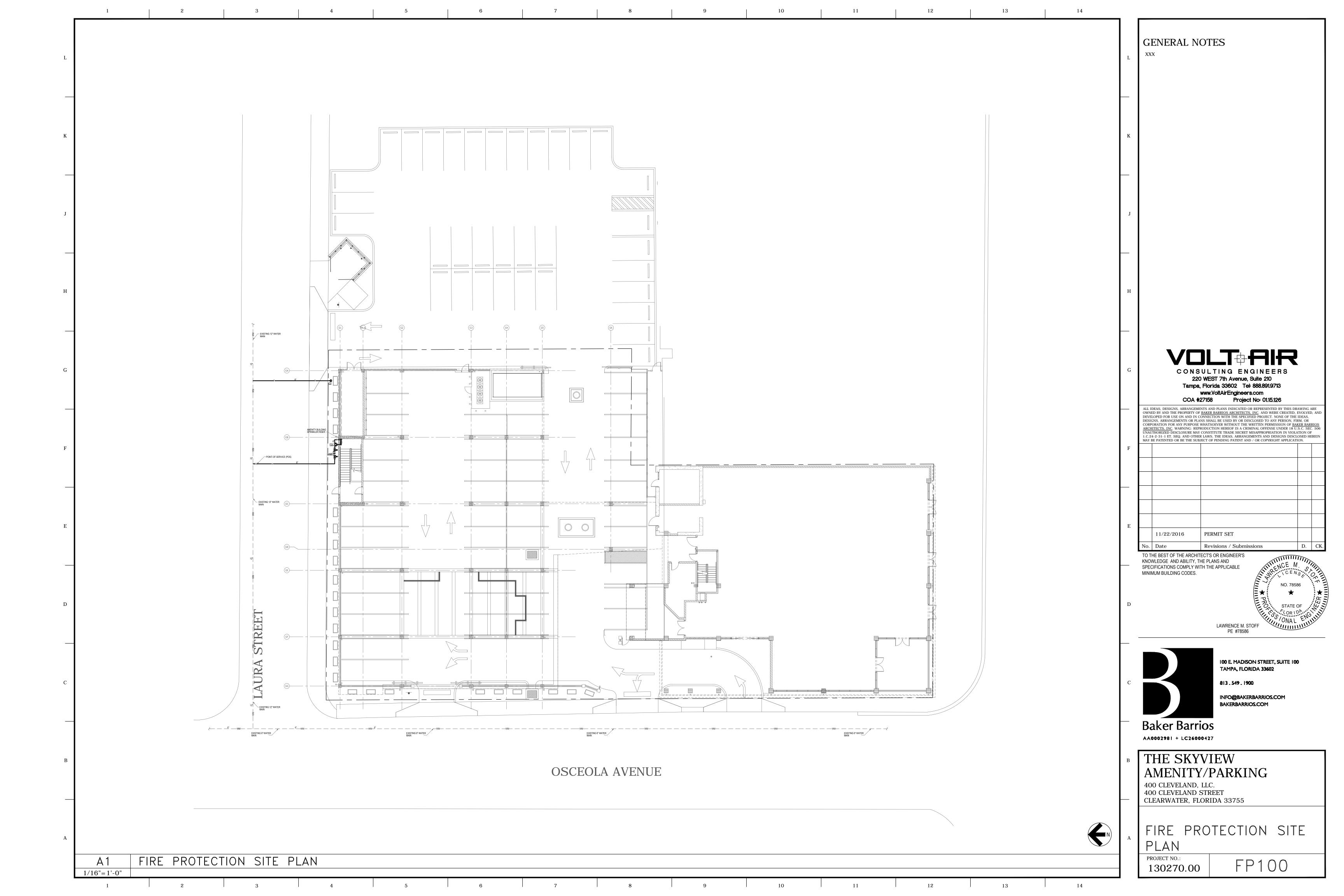
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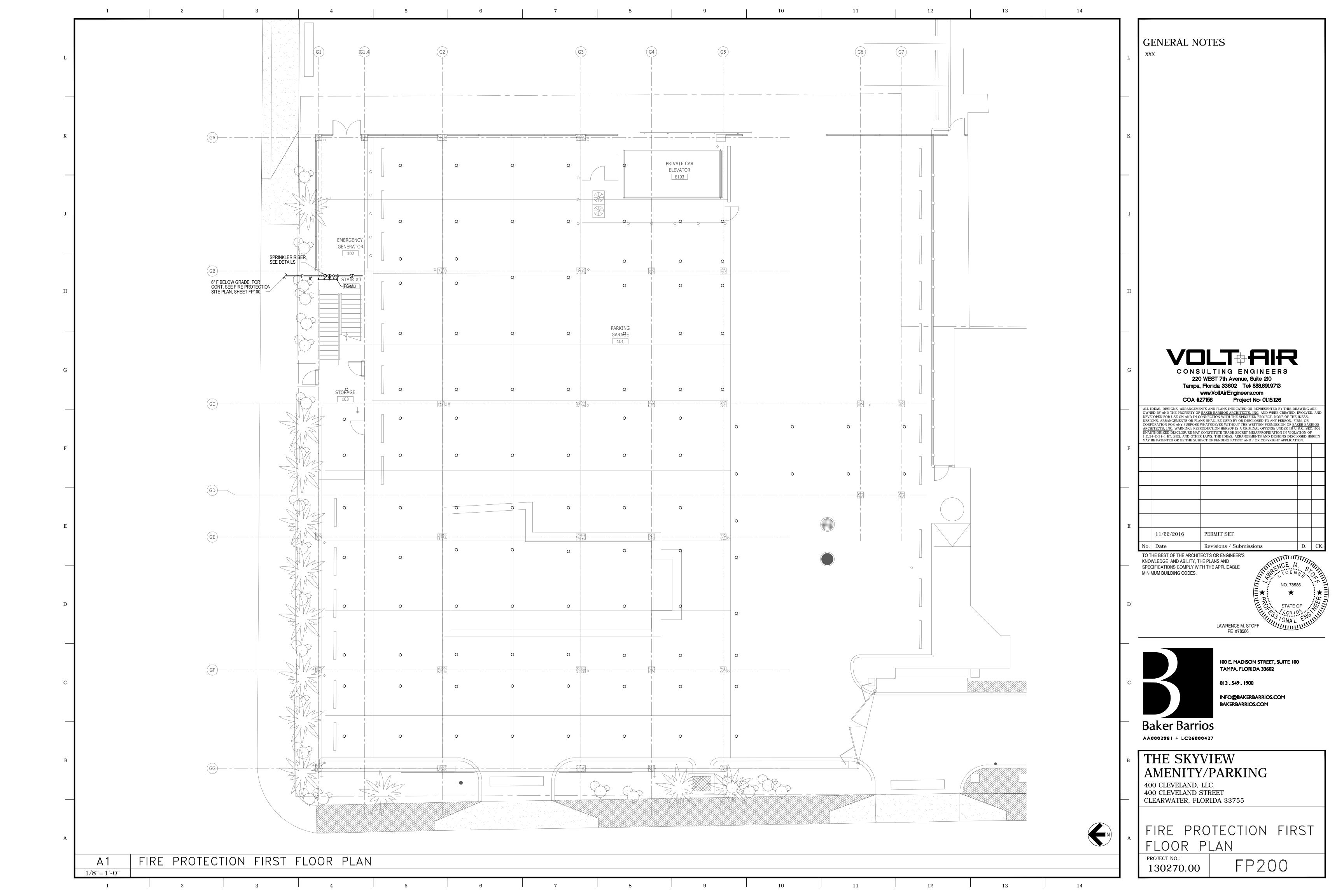
FIRE PROTECTION LEGEND

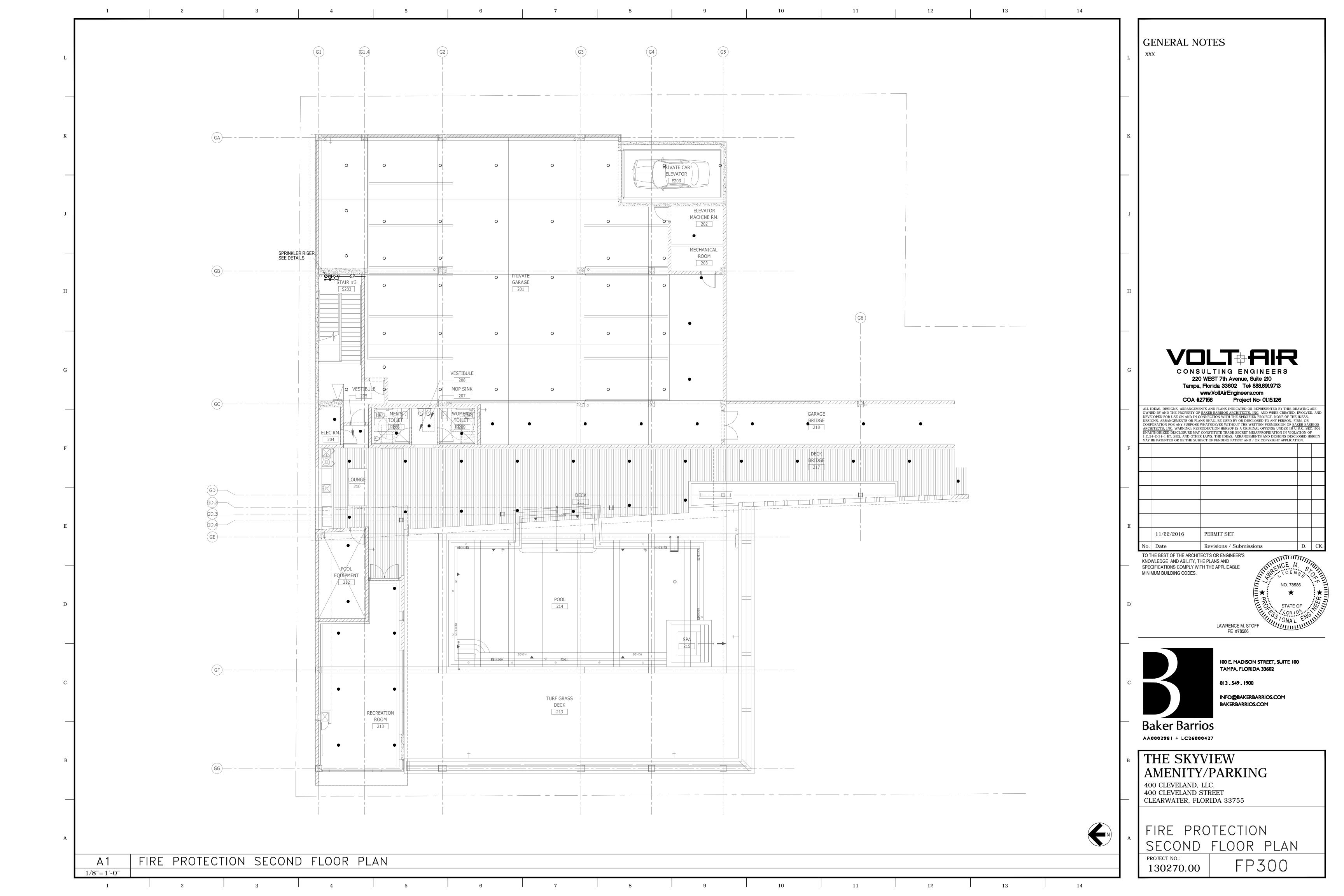
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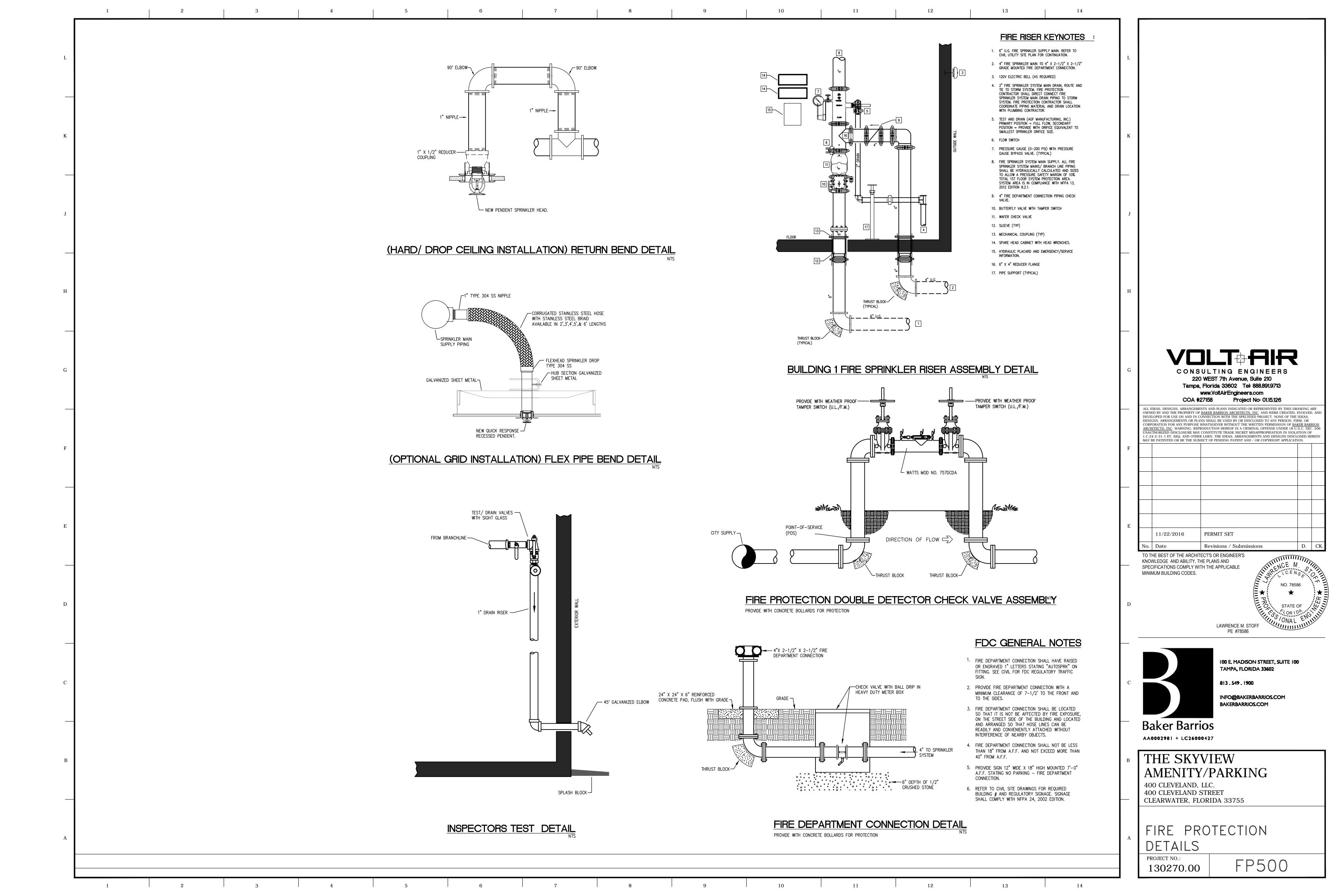
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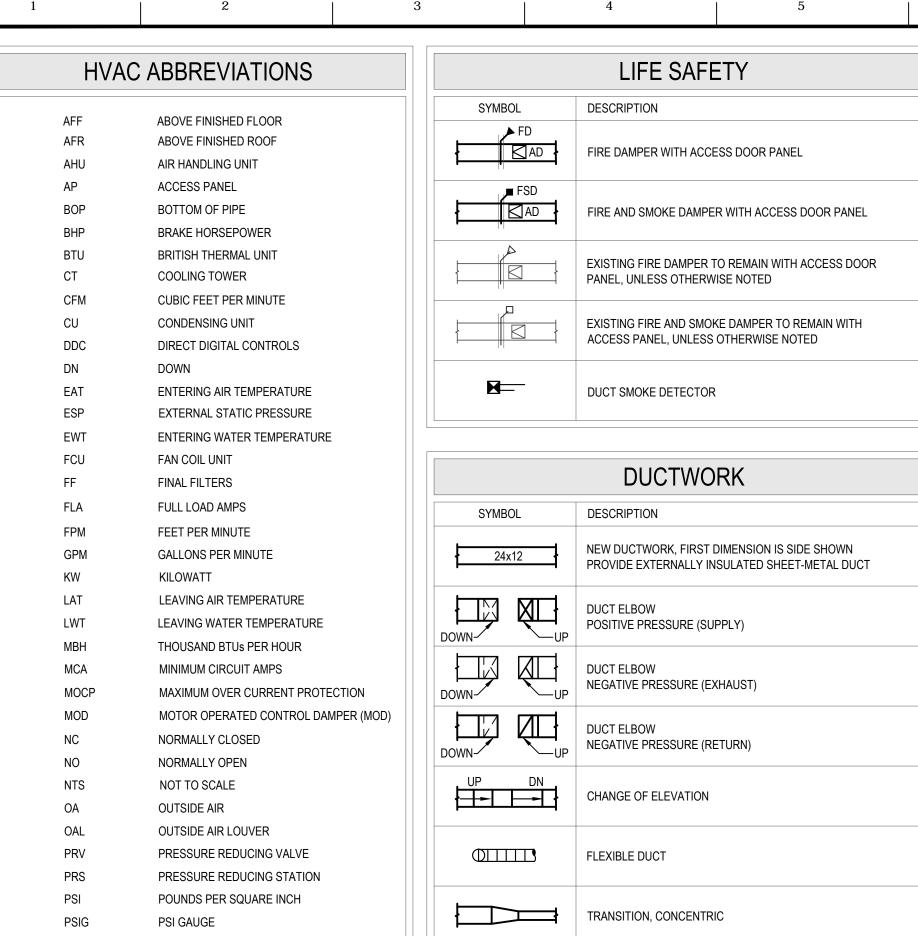
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	DUCTWORK
SYMBOL	DESCRIPTION
24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUCT
DOWN-UP	DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (EXHAUST)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (RETURN)
UP DN	CHANGE OF ELEVATION
ФПП	FLEXIBLE DUCT
	TRANSITION, CONCENTRIC
	TRANSITION, ECCENTRIC
10x8 8ø	TRANSITION, SQUARE TO ROUND
	SQUARE THROAT ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
24x12	RECTANGULAR DUCTWORK
8ø	ROUND DUCTWORK

SYMBOL	DESCRIPTION
24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUCT
DOWN UP	DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
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ФПП	FLEXIBLE DUCT
	TRANSITION, CONCENTRIC
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	SQUARE THROAT ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
24x12	RECTANGULAR DUCTWORK
8ø	ROUND DUCTWORK

WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES, AND CONTRACT DRAWINGS AND SPECIFICATIONS. WORK SHALL INCLUDE ALL WORK NORMALLY SPECIFIED IN DIVISION 23. PAY FOR ALL REQUIRED LICENSES, FEES, INSPECTIONS AND PERMITS.

INSTALL ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATIONS AND GOVERNING CODES, INCLUDING THE REGULATIONS OF THE UTILITY COMPANIES SERVING THE PROJECT.

WHERE A CONFLICT IN CODE REQUIREMENTS OCCURS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

ALL EQUIPMENT AND DEVICES SHALL BEAR U.L. LABEL, THE LABEL OF AN INDUSTRY RECOGNIZED APPROVED TESTING AGENCY OR A.G.A. CERTIFICATION FOR SAID ITEM OF EQUIPMENT OR DEVICE.

ALL ELECTRICAL DEVICES MUST BE U.L. APPROVED.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE ACCEPTANCE OF THE ARCHITECT/ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.

IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO

ARCHITECT/ENGINEER FOR CLARIFICATION AND INSTRUCTIONS.

6. ELECTRICAL PROVISIONS WORK INCLUDES VARIOUS ELECTRICAL REQUIREMENTS (A) WHICH INCORPORATE SPECIFIC | ELECTRICAL FEATURES AND COMPONENTS WHICH ARE REQUIRED TO BE PHYSICALLY INTEGRAL WITH MECHANICAL EQUIPMENT, OR (B) WHICH REQUIRE NECESSARY ELECTRICAL INTERCONNECTING COMPONENTS FOR THE MECHANICAL SYSTEMS.

DEFINITIONS: DEFINITIONS FOR THE PURPOSE OF MECHANICAL/ELECTRICAL CONTROL AND POWER COORDINATION ARE AS GIVEN BELOW. ANY ITEMS WHICH DO NOT FALL WITHIN THE SCOPE OF THIS PARAGRAPH SHALL BE COORDINATED AS INDIVIDUALLY SPECIFIED.

"FURNISH" MEANS TO PROCURE AN ITEM AND TO DELIVER IT TO THE PROJECT FOR INSTALLATION.

"INSTALL" MEANS TO DETERMINE (IN COORDINATION WITH OTHERS AS NECESSARY) THE

APPROPRIATE INTENDED LOCATION OF AN ITEM AND TO SET AND CONNECT IT IN PLACE.

"PROVIDE" MEANS TO BOTH FURNISH AND INSTALL

INCLUDE ALL AUXILIARIES AND ACCESSORIES FOR COMPLETE AND PROPERLY OPERATING SYSTEMS.

CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE PROVIDING A BID PRICE. ADVISE

ARCHITECT/ENGINEER OF DISCREPANCIES OR QUESTIONS BEFORE BIDDING.

PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

PROVIDE ALL REQUIRED OPENINGS TO ACCOMPLISH THE WORK. PROVIDE SLEEVES OR OTHER APPROVED METHODS TO ALLOW PASSAGE OF ITEMS INSTALLED.

ANY INTERRUPTION OF EXISTING MECHANICAL AND ELECTRICAL SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. THIS INCLUDES, BUT IS NOT LIMITED TO, SERVICES PROVIDING CHILLED WATER, ELECTRICITY, OR OTHER CRITICAL SYSTEMS AS MAY BE PERTINENT TO THIS PARTICULAR PROJECT. SERVICE INTERRUPTION TIMES AND DURATION OF INTERRUPTION OF SERVICES SHALL BE DECIDED BY THE OWNER. PROVIDE APPROPRIATE PROVISIONS (E.G., ISOLATION SHUT-OFF VALVES, DAMPERS, END CAPS, AND SIMILAR ITEMS) AS NECESSARY TO ACCOMMODATE THE REQUIRED SERVICE INTERRUPTIONS. IF SHUTDOWNS CANNOT BE ACCOMMODATED, PROVIDE MEANS FOR "WET" TAPPING OR "HOT" TAPPING OF PIPING SYSTEMS.

12. CLEANING AND PROTECTION: EQUIPMENT: ALL MECHANICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE EQUIPMENT MADE "LIKE NEW" AND TO THE

DUCT ACCESSORIES

GENERAL NOTES

SATISFACTION OF THE ARCHITECT/ENGINEER UPON COMPLETION. AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH. LEFTOVER MATERIALS. TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE.

PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO "AS NEW" CONDITION OR REPLACED AT THE DIRECTION OF THE ARCHITECT/ENGINEER. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR. FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ARCHITECT/ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO "NEW" CONDITION.

PROVIDED FOR THE PROJECT.

SUBMIT SHOP DRAWINGS FOR ALL WORK INCLUDING ALL ITEMS, SERVICES AND SYSTEMS

SHOP DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING:

TECHNICAL AND DESCRIPTIVE DATA IN DETAIL EQUAL TO OR GREATER THAN THE DATA GIVEN IN THE ITEM SPECIFICATION. INDICATE ALL CHARACTERISTICS, SPECIAL MODIFICATIONS AND FEATURES. WHERE PERFORMANCE AND CHARACTERISTIC DATA IS SHOWN ON THE DRAWINGS OR SPECIFIED, SUBMITTED DATA SHALL BE PROVIDED IN A DEGREE WHICH IS BOTH QUANTITATIVELY AND QUALITATIVELY EQUAL TO THAT SPECIFIED AND SHOWN SO THAT COMPARISON CAN BE MADE. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAN THAT GIVEN IN ITEM SPECIFICATION AND INCLUDE ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES. PRESSURE DROPS. OPERATING TEMPERATURES. OPERATING CURVES. TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURERS' NAMES MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS, GAUGES AND ALL OTHER RELATED INFORMATION AS APPLICABLE TO PARTICULAR ITEM.

EXCEPTIONS TO OR DEVIATIONS FROM THE CONTRACT DOCUMENTS. SHOULD ARCHITECT/ENGINEER ACCEPT ANY ITEMS HAVING SUCH DEVIATIONS WHICH ARE NOT CLEARLY BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION, IN WRITING, ON ITEM SUBMITTAL, THEN CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH DEVIATIONS REGARDLESS OF WHEN SUCH DEVIATIONS ARE DISCOVERED.

14. SHOP DRAWINGS TECHNICAL INFORMATION BROCHURE

NEAR CONCLUSION OF WORK AND NOT LESS THAN 10 DAYS PRIOR TO SUBSTANTIAL COMPLETION INSPECTION, SUBMIT A TECHNICAL INFORMATION DOCUMENT (TID) CONTAINING ALL FINAL SHOP DRAWING AND SUBMITTAL INFORMATION FOR THE PROJECT. THIS TECHNICAL INFORMATION DOCUMENT SHALL CONSIST OF ONE OR MORE ADEQUATELY SIZED, HARD-COVER, 3-RING BINDER FOR 8-1/2" X 11" SHEETS.

SHOP DRAWING TECHNICAL AND DESCRIPTIVE DATA SHALL BE INSERTED IN THE TID IN PROPER ORDER ON ALL ITEMS. PROVIDE COMPLETE INFORMATION, INCLUDING, BUT NOT LIMITED TO, WIRING AND CONTROL DIAGRAMS, SCALE DRAWINGS SHOWING THAT PROPOSED SUBSTITUTE EQUIPMENT WILL FIT INTO ALLOTTED SPACE (INDICATE ALL SERVICE ACCESS, CONNECTIONS, ETC.), TEST DATA, AND OTHER DATA REQUIRED TO DETERMINE IF EQUIPMENT COMPLIES FULLY WITH THE SPECIFICATIONS.

SUBMIT FOR CHECKING A SPECIFIC SET OF WRITTEN OPERATING INSTRUCTIONS ON EACH ITEM WHICH REQUIRES INSTRUCTIONS TO OPERATE. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

SUBMIT FOR ACCEPTANCE MAINTENANCE INFORMATION CONSISTING OF MANUFACTURER'S PRINTED INSTRUCTION AND PARTS LISTS FOR EACH MAJOR ITEM OF EQUIPMENT. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

PROVIDE A ONE YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER TO REPLACE FOR THE OWNER ANY DEFECTIVE WORKMANSHIP, EQUIPMENT, OR MATERIAL WHICH HAS BEEN FURNISHED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM. THIS GUARANTEE SHALL ALSO INCLUDE REASONABLE ADJUSTMENTS OF THE SYSTEM REQUIRED FOR PROPER OPERATION DURING THE GUARANTEE PERIOD. EXPLAIN THE PROVISIONS OF GUARANTEE TO OWNER AT THE "INSTRUCTION IN OPERATION CONFERENCE"

18. <u>TEST AND BALANCE NOTE:</u> A THIRD PARTY LICENSED TEST AND BALANCE CONTRACTOR SHALL BALANCE EACH SYSTEM AFTER HVAC INSTALLATION IS COMPLETE. ALL EQUIPMETN SHALL BE BALANCED TO A TOLERANCE OF +/-10% OF THE VALUES SHOWN WITHIN THESE PLANS. A CERTIFIED REPORT SHALL BE DELIVERED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL

COMPLETION OF CONSTRUCTION.

WHEN ALL WORK IS COMPLETED, PROVIDE THE OWNER AN "INSTRUCTION IN OPERATION CONFERENCE". AT THE CONFERENCE, THE CONTRACTOR SHALL REVIEW WITH THE OWNER ALL APPROPRIATE INFORMATION.

GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- 4. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
- 5. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH DOOR SWINGS, FURNITURE, AND
- 8. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A
- 9. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.

VIBRATION-FREE, RIGID INSTALLATION.

OTHER EQUIPMENT.

- 10. PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH DUCTS FROM MAIN DUCT TO AIR DEVICES. POSITION DAMPERS IN ACCESSIBLE LOCATION. IF NOT ACCESSIBLE PROVIDE VOLUME DAMPER WITH REMOTE CABLE CONTROL REGULATOR TO ACCESSIBLE LOCATION.
- 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING, OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- 15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOW, FITTINGS, ETC. TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES UPSTREAM
- 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT.
- 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS, AND OTHER AIR DISTRIBUTION DEVICES.
- 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNIT, AND FAN COIL UNIT.
- 19. INTERRUPTIONS TO EXITING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE
- 20. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- 21. ALL EQUIPMENT, DUCTWORK, ETC. TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY AS DIRECTED BY OWNER.
- ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS TO ALLOW FOR INSPECTIONS OF RATED WALLS.

22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT,

- 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
- 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- 25. PRIOR TO START UP OF AIR HANDLING SYSTEMS AND EXHAUST SYSTEMS, INSTALL AND MAINTAIN TEMPORARY FILTERS OVER ALL RETURN, EXHAUST AND RELIEF GRILLES AND OPENINGS. FILTRATION MEDIUM SHALL HAVE A RATING OF MERV 8 OR BETTER.

CODE COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE, 2014 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

11/22/2016

MINIMUM BUILDING CODES.

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE

> TAMPA, FLORIDA 33602 813.549.1900

100 E. MADISON STREET, SUITE 100

INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM

LAWRENCE M. STOFF PE #78586

CONSULTING ENGINEERS

220 WEST 7th Avenue, Suite 210

Tampa, Florida 33602 Tel: 888.891.9713

www.VoltAirEngineers.com

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PERMIT SET

Revisions / Submissions

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Project No: 01.15.126

COA #27158

Baker Barrios AA0002981 + LC26000427

THE SKYVIEW AMENITY/PARKING

400 CLEVELAND, LLC. 400 CLEVELAND STREET CLEARWATER, FLORIDA 33755

MECHANICAL LEGEND

MECHANICAL LEGEND NO SCALE

PTAC

RPM

UNO

PACKAGED TERMINAL AIR CONDITIONER

RETURN AIR

REHEAT COIL

SUPPLY AIR

VOLTS/PHASE

AIR DISTRIBUTION

AIR DISTRIBUTION DEVICE: SUPPLY

AIR DISTRIBUTION DEVICE: RETURN

AIR DISTRIBUTION DEVICE: EXHAUST

DOOR GRILLE: SEE ARCHITECTURAL DRAWINGS

UNDERCUT DOOR: SEE ARCHITECTURAL DRAWINGS

(4-WAY BLOW UNLESS INDICATED BY FLOW ARROWS)

DESCRIPTION

SYMBOL

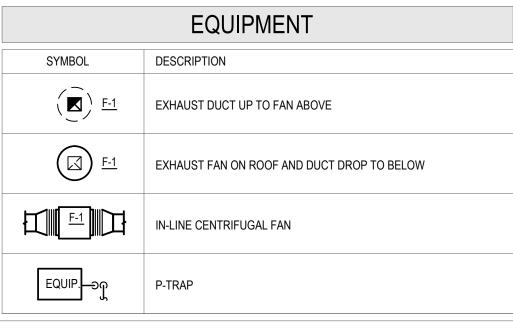
STATIC PRESSURE

REVOLUTIONS PER MINUTE

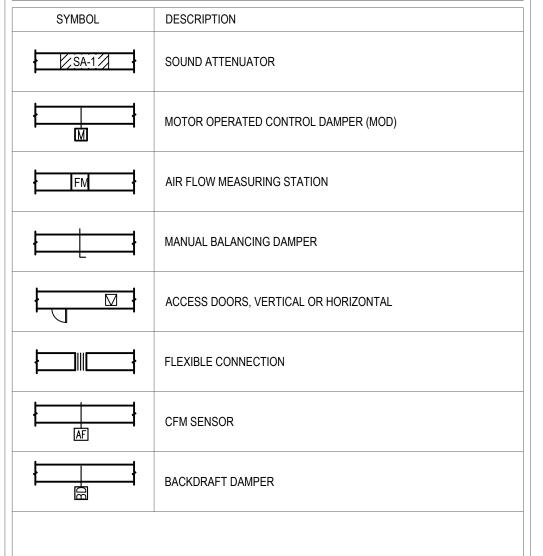
TOTAL STATIC PRESSURE

VARIABLE AIR VOLUME

UNLESS NOTED OTHERWISE



	CONTROLS
SYMBOL	DESCRIPTION
①	THERMOSTAT / TEMPERATURE SENSOR
(H)	HUMIDISTAT / HUMIDITY SENSOR
M	MOTORIZED CONTROL DAMPER



HVAC DUCTWORK SCHEDULE						
TYPE / LOCATION	SUPPLY AIR	RETURN AIR	EXHAUST AIR	OUTSIDE AIR		
ABOVE CEILING	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL EXT. FIBERGLASS		
EXPOSED (MECHANICAL ROOM)	SHEET METAL EXT. FIBERBOARD	SHEET METAL EXT. FIBERBOARD	SHEET METAL SINGLE WALL NON-INSULATED	WRAP SHEET METAL EXT. FIBERGLASS		
EXPOSED (OCCUPIED AREA'S)	ROUND OR OVAL SHEET METAL DOUBLE WALL	ROUND OR OVAL SHEET METAL DOUBLE WALL	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL DOUBLE WALL INSULATED		

- 1. EXTERIOR WRAPPED DUCTS SHALL HAVE TWO COATS OF FABRIC AND MASTIC. INSULATED DUCTS LOCATED IN OUTDOOR AREAS SHALL HAVE 1" THICKER INSULATION
- THAN INDOOR APPLICATIONS. FOR GENERAL DUCTWORK CONSTRUCTION ONLY. SEE PLANS FOR INDIVIDUAL CASES.
- 4. EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURE ABOVE THE DUCT UNLESS NOTED OTHERWISE.
- EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE SUPPORTED BY CABLES. REFER TO DETAILS. PROVIDE SHEET METAL TRANSITIONS BETWEEN LOUVERS AND DUCTWORK. INSULATED EXTERIOR OF SHEET METAL PLENUM WITH FIBER BOARD INSULATION IN CONCEALED

LOCATIONS. PROVIDE DOUBLE WALL INSULATED SHEET METAL PLENUM IN EXPOSED

- LOCATIONS. MAXIMUM DISTANCE OF FLEXIBLE BRANCH DUCTWORK TO AIR DEVICES SHALL BY 6 FT WHERE LENGTH EXCEEDS 6 FT. THE REMAINING BALANCE OF DUCTWORK SHALL BE EXTERNALLY INSULATED ROUND SNAPLOCK SHEET METAL DUCTWORK TO CONICAL
- BELLMOUTH SPIN-IN TAP AT MAIN DUCT TRUNK.

DESIGN CRITERIA

OUTSIDE AIR DESIGN CRITERIA:

SUMMER INSIDE DESIGN CRITERIA: 75° DB ± 2°F

WINTER INSIDE DESIGN CRITERIA: 68°F DB ± 2°EF

50% RH ± 10% EXHAUST AIR VENTILATION RATE: TOILET ROOM 50 CFM/WC

SUMMER: 95°F DB / 74.8°F WB

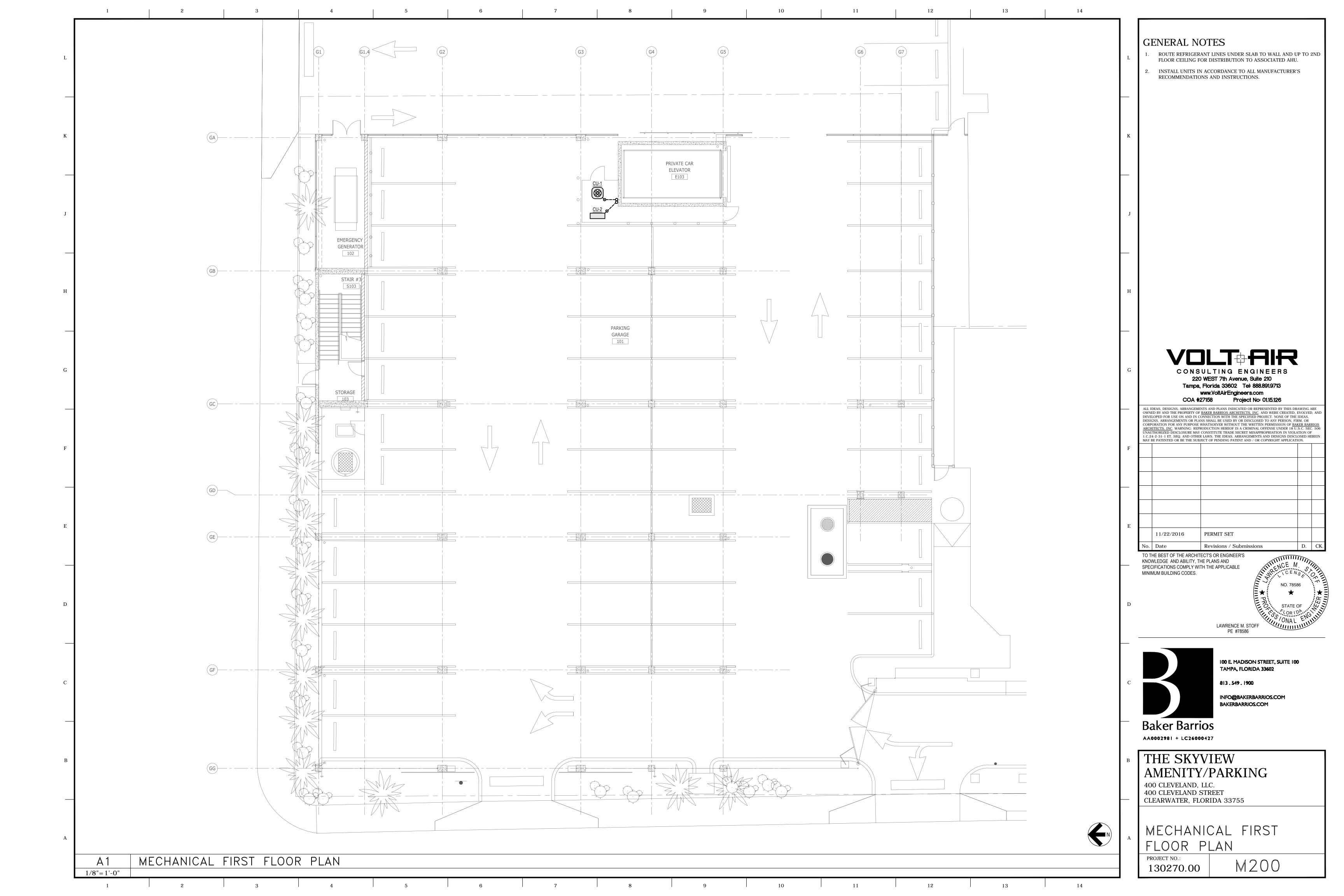
WINTER: 38°F DB

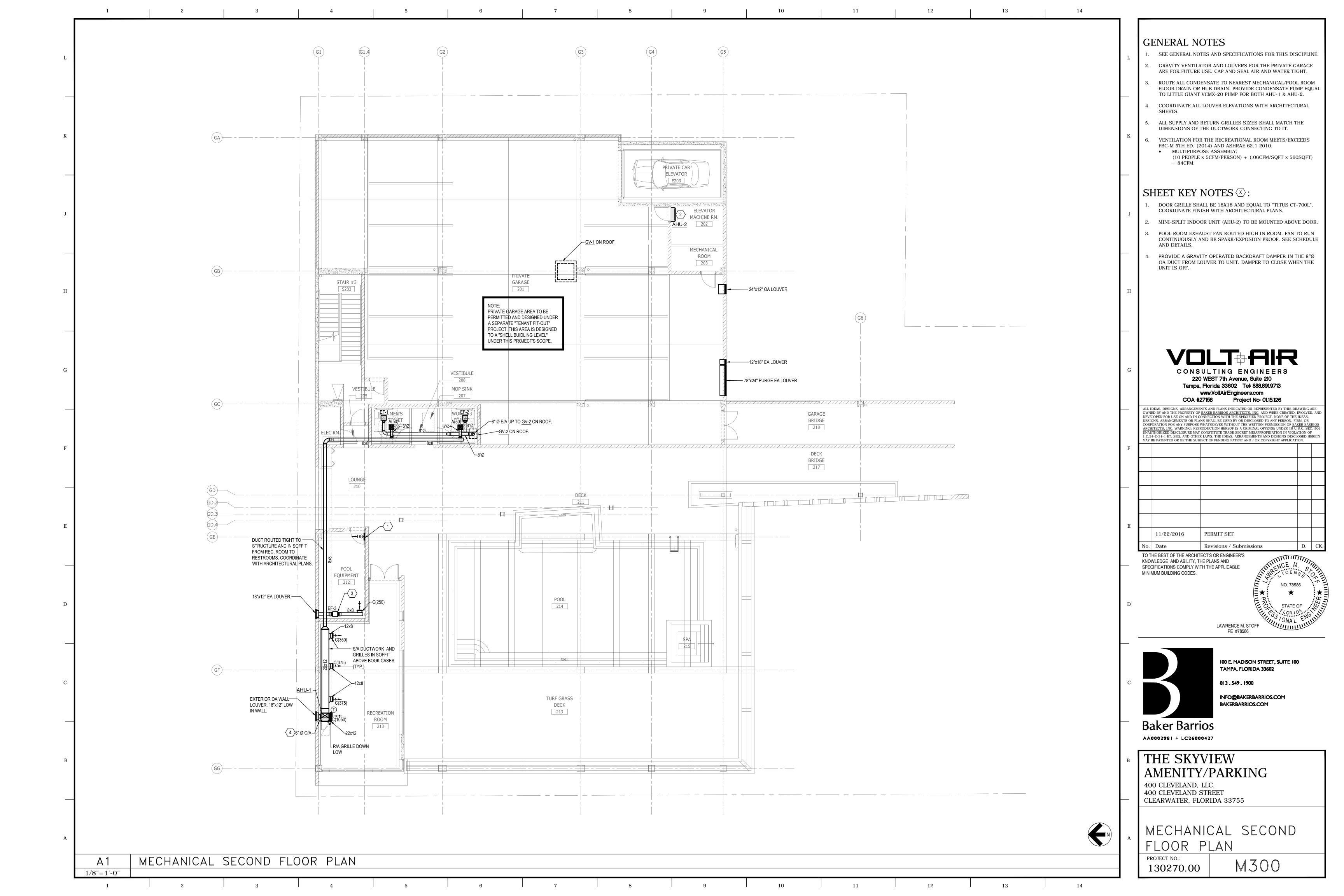
50% RH ± 7.5%

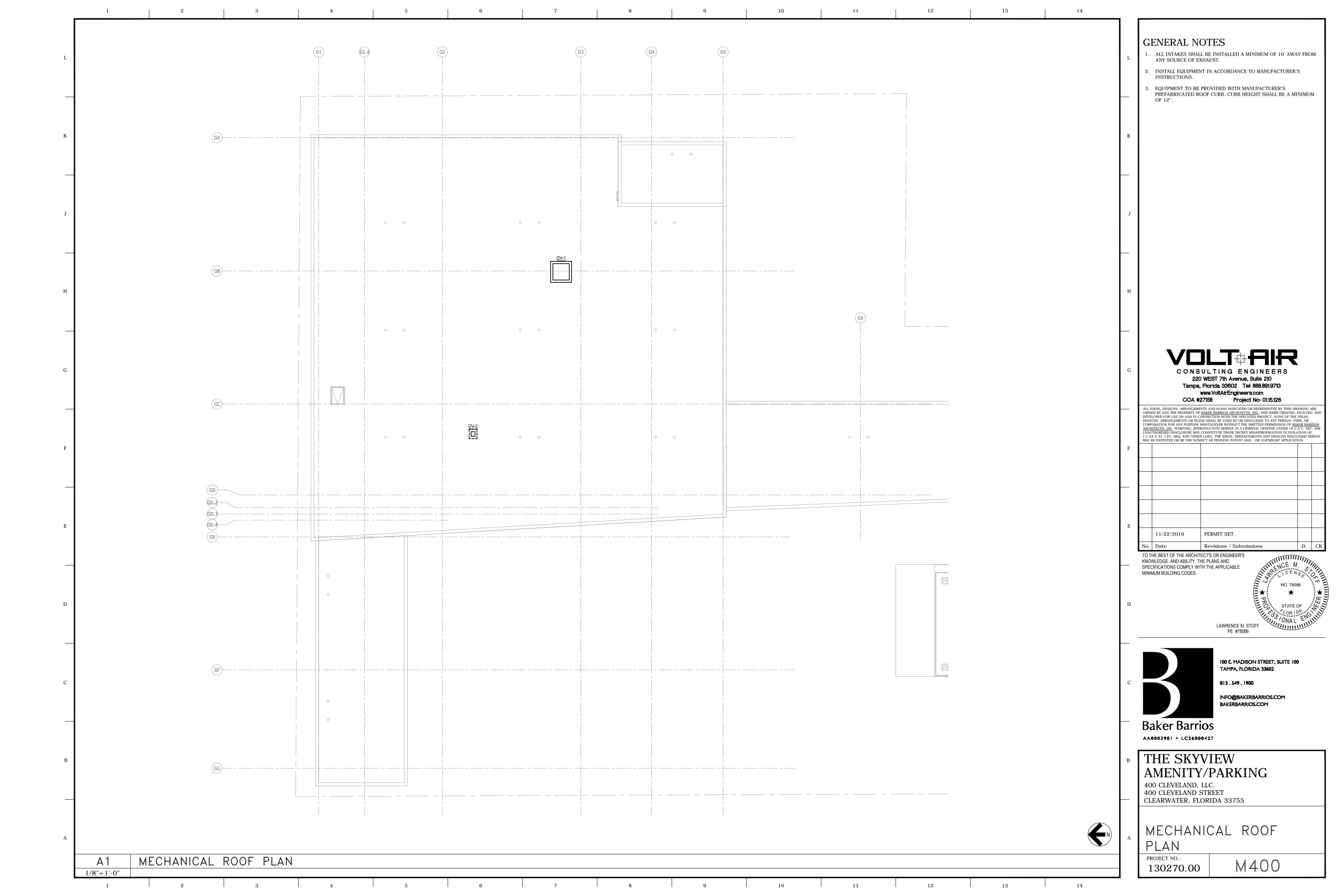
FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 8M OR EQUAL.

130270.00

M000







DX SPLIT SYSTEM - INDOOR UNIT/AHU SCHEDULE SELECTION BASED ON **FAN DATA** UNIT ELECTRICAL DATA UNIT NO. SERVING NOTES OUTSIDE AIR | EXT. STATIC **HEATER SIZE** MANUFACTURER MODEL PH FAN FLA MCA MOCP P. IN H20 | HP (WATTS) | VOLT CFM 1,3,4,5 AHU-1 **LENNOX** CBX32M-36 RECREATION ROOM 0.5 1/3 14.5 12.5 208 1 1.72 60 60 1,2,5 AHU-2 PKA-A30KA4 CAR LIFT MACHINE ROOM 775 N/A N/A 208 15.3 N/A 208 1 0.36 --- ---MITSUBISHI (56) 1. POWER FOR AHU-2 PROVIDED FROM ASSOCIATED OUTDOOR UNIT (CU-2). NOTES: 2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAX REFRIGERANT LINE LENGTH. MAX LINE LENGTH . 3. UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER. 4. UNIT(S) SHALL BE PROVIDED WITH A CONDENSATE PUMP EQUAL TO "LITTLE GIANT #VCL-14ULS". DX SPLIT SYSTEM - CONDENSING UNIT SCHEDULE: SECTION BASED ON UNIT ELECTRIC DATA **UNIT DATA COMPRESSOR DATA** NOM CAP SEER COND. EAT UNIT NO. MANUFACTURER MODEL VOLT | PH | QTY | STEPS | VOLT | PH | RLA | LRA | VOLT | PH | FAN FLA | MCA | MOCP LENNOX TSA036 AHU-1 1/5 | 208 | 3 | 1 | 1 | 208 | 1 | 10.4 | 73.0 | 208 | 3 | 1.10 | 14.2 | 20 36.0 | 14.5 | CU-2 MITSUBISHI PUZ-HA30NHA4 AHU-2 30.0 15.3 R-410A 1 0.172 208 1 1 1 208 1 20.0 27.5 208 1 0.80 28 40 NOTE: UNIT SHALL BE PLACED ON A 4" CONCRETE HOUSEKEEPING PAD AND LOCATED INSIDE A FENCED ENCLOSURE. SEE FLOOR PLANS AND SPECIFICATION FOR MORE DETAILS. FAN SCHEDULE PRODUCT MODEL STATIC PRESS. VOLT/ DRIVE SONES INTERLOCKS TYPE N0. RPM HP (WATTS) | ECM MOTOR | PHASE MARK MANUFACTURE EF-1 SP-B70 CEILING EXHAUST FAN 675 (45W) GREENHECK 50 675 NO 120/1 DIRECT 2.0 1,7,10,12,24 LIGHT SWITCH CEILING EXHAUST FAN (45W) NO 120/1 DIRECT EF-2 GREENHECK SP-B70 675 675 2.0 1,7,10,12,24 RUNS CONT. 1084 1725 NO 120/1 BELT EF-3 BSQ-80 250 1/4 7.0 1,5,21,23,24,25,27 GREENHECK INLINE 1. MODEL NUMBERS AND FAN SELECTION ARE BASED ON GREENHECK WITH THE FOLLOWING ACCESSORIES SCHEDULED: 22) HINGED FRAMES 15) WEATHER COVER 23) SPARK/EXPLOSION PROOF 2) THERMOSTAT 9) CURB MOUNT ROOF JACK 16) 2 SPEED / 1 WINDING 3) BIRDSCREEN 10) SPEED CONTROLLER 17) FILTERS 24) UL/cUL 507 LISTED 4) ROOF CURB 25) SPECIAL COATING: AIR DRY PHENOLIC 11) WALL SHUTTER 18) WALL COLLAR CONSULTING ENGINEERS 5) DISCONNECT SWITCH 12) VIBRATION ISOLATORS 19) FAN GUARD/SCREEN 26) TIE DOWN POINTS 220 WEST 7th Avenue, Suite 210 27) FAN TO RUN CONTINUOUSLY 6) DRAIN 13) WALL CAP 20) COMPANION FLANGES Tampa, Florida 33602 Tel: 888.891.9713 7) EQUIPMENT SUPPORTS 21) INSULATED HOUSING FOR SOUND CONTROL 28) FAN INTERLOCKED WITH LIGHTSWITCH. ENGAGE WHEN LIGHT SWITCH IS TURNED ON AND SHALL 14) WALL SHUTTER - MOTORIZED www.VoltAirEngineers.com REMAIN ON FOR A PERIOD OF 15MIN (TIME DELAY) WHEN LIGHT SWITCH TURNS OFF. COA #27158 Project No: 01.15.126 ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF <u>BAKER BARRIOS ARCHITECTS</u>, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR ROOF MOUNTED GRAVITY VENTILATORS AIR DISTRIBUTION SCHEDULE CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF <u>BAKER BARRIOS</u> <u>ARCHITECTS, INC</u>. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 500 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF .C.24-2-31-1 ET. SEQ. AND OTHER LAWS, THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HERE SYMBOL/TAG DESCRIPTION IMAGE MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION. PLAN MODEL \triangle P ROOF BASE HEIGHT (INCHES) OPENING IN. WG. COLOR: WHITE GRV-1 FGR .001 42X42 MATERIAL: ALUMINUM GRV-2 FGR 100 .001 14X14 SERVICE: CEILING SUPPLY NOTES: BASIS OF DESIGN: TITUS 50F MODEL TYPES AND VENTILATOR SELECTIONS ARE BASED ON GREENHECK COLOR: WHITE SPUN ALUMINUM GRAVITY INTAKE AND RELIEF. SEE SPECIFICATIONS FOR MATERIAL: ALUMINUM ALTERNATE MANUFACTURERS SERVICE: CEILING RETURN AND EXHAUST ALL VENTILATORS SHALL BE PROVIDED WITH BIRD SCREEN INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH FBC - MIAMI DADE NOA NUMBER RATING FOR 140 MPH WIND LOAD. 11/22/2016 PERMIT SET 4. PROVIDE FACTORY INSTALLED BACKDRAFT DAMPER. 5. GRV-1 FOR FUTURE USE. SEE TENANT FIT-OUT DOCUMENTS FOR AIRFLOW. Revisions / Submissions TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S BASIS OF DESIGN: TITUS 300FL(S) / 350RL (R) KNOWLEDGE AND ABILITY, THE PLANS AND COLOR: WHITE SPECIFICATIONS COMPLY WITH THE APPLICABLE MATERIAL: ALUMINUM MINIMUM BUILDING CODES. SERVICE: SIDEWALL SUPPLY (300FL) SERVICE: SIDEWALL SUPPLY (350RL) GENERAL NOTES: LAWRENCE M. STOFF AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PE #78586 PROVIDED WITH BORDER TYPE 3 FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER TYPE 1 FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES. 100 E. MADISON STREET, SUITE 100 AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED MAXIMUM SOUND RATING FOR ALL AIR DEVICES 25 NC. INFO@BAKERBARRIOS.COM PROVIDE SECTORIZING BAFFLES IN SUPPLY AIR DEVICES TO DIRECT AIR AS INDICATED ON FLOOR PLANS WITH DIRECTIONAL ARROWS SHOWN.

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| D. | CK

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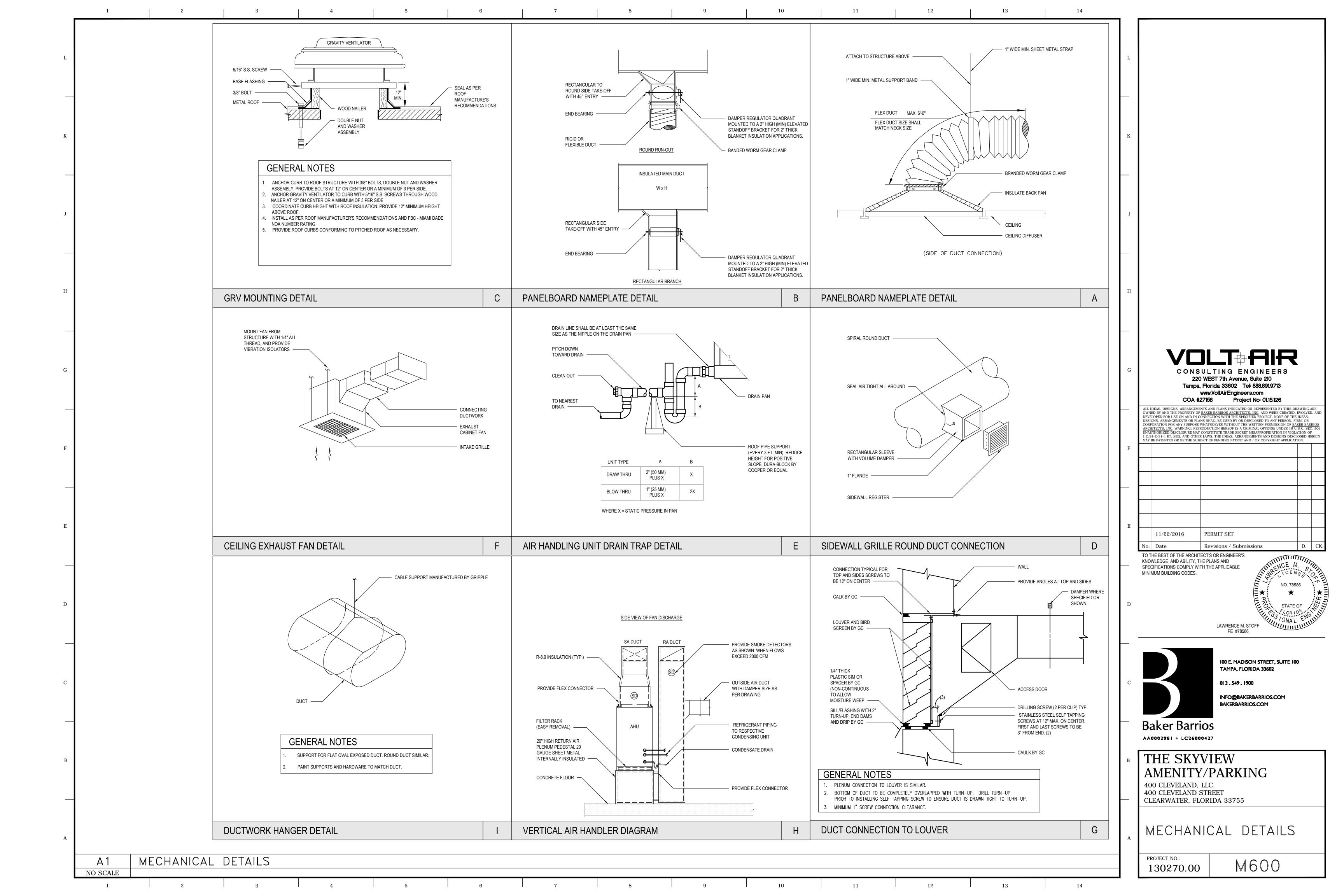
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MECHANICAL SCHEDULES

M500 130270.00

MECHANICAL SCHEDULES

NO SCALE



PLUMBING FIXTURE SPECIFICATION EWC-1 ELECTRIC WATER COOLER WC-1 FLOOR MOUNTED WATER CLOSET - (ADA) BARRIER FREE, ADA, WALL MOUNTED DUAL HEIGHT, WALL MOUNTED VITREOUS CHINA. 17" MOUNTING HEIGHT INCLUDING SEAT. 1.28 GALLON, FLOOR REFRIGERATION SYSTEM. TYPE 304 STAINLESS STEEL DRINKING FOUNTAIN BASIN MOUNTED, FLUSH TANK, ELONGATED CLOSET BOWL. WITH INTEGRAL DRAIN, COOLER CABINET AS LIGHT GRAY GRANITE VINLY CLAD STEEL, FLEXI-GUARD SAFETY BUBBLERS, STRAINER AND TAILPIECE. INTERNAL 1.28 GALLON CHROME PLATED FLUSH VALVE(EXPOSED), 1-INCH I.P.S. SCREW DRIVER CHILLER UNIT CAPABLE OF 8 GPH OF 50 DEG. F AT AN AMBIENT TEMPERATUR OF 90 ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER DEG. F. ELECTRICAL CHARACTERISTICS - 115 V AC, 60 HZ. FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD, DIE CAST WALL FLANGE WITH SET SCREW, SPUD FLANGE, SOLID RING PIPE SUPPORT AND ADA 3/8 INCH I.P.S SUPPLY WITH KEY STRAIGHT STOP BASIS OF DESIGN COOLER - ELKAY - VRCTLR8SC SEAT SHALL BE EXTRA HEAVY SOLID PLASTIC WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE, OPEN FRONT LESS COVER. TRAP - MCGUIRE -8902 SUPPLY - MCGUIRE -158LK CARRIER - ZURN ULTRA MAX #MS604114CEFG MS-1 MOP SINK FLOOR MOUNTED 24"X24"X12" DEEP PRECAST TERRAZO WITH STAINLESS STEEL CAP INTEGRAL CAST STAINLESS STEEL DRAIN BODY, PROVIDE FOR A GASKETED DRAIN VITREOUS CHINA, 21" x17-5/8" OVAL, SELF RIMMING, FRONT OVERFLOW. CONNECTION NOT LESS THAN 1" DEEP TO A 2" PIPE. THREE HOLE FAUCET OPENINGS. PROVIDE STAINLESS STEEL WALL GUARDS ON WALLS. SINGLE TEMPERED WATER BRASS FAUCET, 0.5 GPM FLOW REGULATOR, CHROME PLATED METERING PUSH HANDLE WITH COLD WATER CODED INDEX. WALL MOUNTED FAUCET SHALL BE CHROME PLATED WITH RENEWABLE SEATS, VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND CHROME PLATED STRAINER, CAST GRID STRAINER WITH 1-1/4" TAILPIECE, PLATED 17 3/4" HOSE THREAD ON SPOUT. 36" HOSE WITH 3/4" CHROME COUPLING AND WALL GAUGE 1-1/4" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. BRACKET. 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS. BASIS OF DESIGN SINK - FIAT - MSB-2424 CHINA - ZURN - Z5344 FAUCET - CHICAGO - 305-VBRCF FAUCET - CHICAGO FAUCET - 404VE2805-665ABCP STRAINER/TRAP - MCGUIRE - 2125WC SUPPLIES - MCGUIRE - 2165CC HB-1 WALL HYDRANT CARRIER - ZURN ZR-1200 SERIES CONCEALED NON-FREEZE KEY OPERATED WALL HYDRANT WITH NICKEL BRONZE BOX AND BRASS DOOR, BRASS HYDRANT FACE, INTEGRAL VACUUM BREAKER, 3/4 " HOSE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, UR-1 URINAL (ADA) BRONZE WALL CASING, AND LOOSE KEY. VITREOUS CHINA, 17" MOUNTING HEIGHT, 0.125 GALLON, FLOOR MOUNTED CARRIER BASIS OF DESIGN WITH CONCEALED BACK, SIPHON JET, WITH 3/4" TOP INLET SPUD, 2" BACK OUTLET WITH INTEGRAL TRAP, 304 STAINLESS STEEL BOLTS AND WASHERS. WALL HYDRANT - WOODFORD B65 0.125 GALLON CHROME PLATED FLUSH VALVE (EXPOSED), 3/4-INCH I.P.S. SCREW DRIVER ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM IMB-1 ICE MAKER BOX BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, DIE CAST WALL FLANGE WITH SET SCREW, SPUD FLANGE AND SOLID RING PIPE SUPPORT. ADA FIRE RATED WALL BOX, QUARTER TURN BRASS ANGLE VALVE. COMPLIANT NON-HOLD-OPEN HANDLE. HEIGHT MEETS CODE REQUIREMENTS. BASIS OF DESIGN TOTO UT104E BOX AND VALVE - GUY GRAY FRIB12 SERIES FLUSH VALVE TEU1LN12#CP WHA-1 WATER HAMMER ARRESTER PISTON OPERATED, WITH 95-5 LEAD FREE SOLDER. THE PISTON SHALL BE EQUIPPED WITH TWO (2) "O" RINGS TO PROVIDE A PERMANENT MECHANICAL BARRIER BETWEEN SINGLE COMPARTMENT SELF RIMMING SINK CONSTRUCTED OF TYPE 302 FLUID AND PRE-LOAD AIR CHARGE. ARRESTORS MAY BE INSTALLED IN VERTICAL AND 18 GUAGE STAINLESS STEEL 19-1/2" X 19" X 6 1/2" DEEP. INTERIOR AND TOP HORIZONTAL POSITION. SURFACES SHALL BE POLISHED TO A HIGH LUSTER FINISH. PROVIDE SINK WITH CRUMB SHOCK ARRESTORS SHALL BE PROVIDED AT ALL FIXTURES AND BATTERIES OF FIXTURES WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS. CHROME PLATED BRASS FAUCET, VANDAL RESISTANT 1.5 GPM FLOW REGULATOR, GOOSE SPOUT, LEVER HANDLES, 8" FAUCET HOLES, COLD AND HOT WATER CODED INDEX. BASIS OF DESIGN 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH PRECISION PLUMBING PRODUCTS - SC SERIES CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS. BASIS OF DESIGN MV-1 MIXING VALVE SINK - ELKAY - LRAD LRDQ2219 SYMMONS 7-225-CK-MS - LOCATE AT ALL PUBLIC TOILET ROOMS LAVATORIES. FAUCET - ELKAY LKE4100 MIXING VALVE, ASSE 1070 RATED, WITH INTEGRAL CHECK VALVES, SET FOR 110 DEG. I DRAIN - ELKAY - LK 35 OI-1 OIL INTERCEPTOR CO's CLEANOUTS ZURN MOD. # Z-1186-800-Z, 50 GPM, 30 GAL. CAPACITY, FABRICATED STEEL OIL INTERCEPTOR, BRONZE CLEAN-OUTS, SEDIMENT BUCKET, FLOW CONTROL GENERAL(ALL FLOOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH FITTING. EQUALIZING/FLOW DIFFUSING BAFFLE. MEMBRANE FLANGE WITH CADMIUM PLATED CAST IRON COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET. SH-1 POOL SHOWER BASIS OF DESIGN REFER TO ARCHITECTURAL PLANS FOR SHOWER SPECIFICATION. FLOOR - ZURN - ZN-1405 TD-1 TRENCH DRAIN TILE FLOOR - ZURN - ZN-1405-4 EXTERIOR FLOOR - ZURN - ZN-1406 ZURN Z-886 PERMA - TRENCH HDPE SYSTEM, 6.25' WIDE WITH MODULAR WALL - ZURN - 1445-4 CHANNELS. INTERNALLY PRE-SLOPED. PROVIDE DECORATIVE GRATE, PLUG - ZURN - Z-1440 SELECTION BY ARCHITECT. FIXTURE CONNECTION SCHEDULE MARK DESCRIPTION WASTE TRAP VENT CW HW WC-1 W. CLOSET, FLUSH VALVE INTEG. UR-1 1-1/2" 3/4" 3" INTEG. 1/2" 1/2" LAVATORY 2" 1-1/2" L-1 1-1/4" 1/2" 1/2" S-1 SINK 1-1/2" 1-1/2" MOP SINK 1/2" 1/2" EWC-1 ELECTRIC WATER COOLER 1-1/4" 1-1/2" 1/2" HB-1 HOSE BIBB

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH CO	CUBIC FEET PER HOUR CLEAN OUT
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
EXIST ESH	EXISTING EMERGENCY SHOWER/EYEWASH
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
°F	DEGREE FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS CALLONS REPUICUE
GPH GPM	GALLONS PER HOUR GALLONS PER MINUTE
GR	KITCHEN WASTE (GREASE)
НВ	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
IE IW	INVERT ELEVATION INDIRECT WASTE
IW KW	KILOWATT
LBS	POUNDS
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS OD	NOT TO SCALE OUTSIDE DIAMETER
PEMB	PRE-ENGINEERED METAL BUILDING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
SAN SD	SANITARY STORM DRAIN
SF	SQUARE FEET
SH	SHEET
SS	SERVICE SINK
STO	OVERFLOW STORM DRAIN
V	VENT
VAC	VACUUM
VTR WCO	VENT THRU ROOF WALL CLEAN OUT
WM	WASHING MACHINE SUPPLY AND DRAIN BOX
WTR	WATER

PLUMBING ABBREVIATIONS

DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATING — G— KITCHEN WASTE (GREASE) SANITARY PIPING ____ s ___ SANITARY VENT ABOVE GROUND STORM ____ ST -___ OVERFLOW STORM DRAIN —— STO - CONDENSATE DRAIN ____ CD____ COMPRESSED AIR ____ CA _____M WATER METER HOSE BIBB OR WALL HYDRANT WITH VALVE IN RISER HOSE BIBB OR WALL HYDRANT WITH VALVE #G**-⋈**-----CLEAN OUT PLUG WALL CLEAN OUT 11∋--------- FLOOR CLEAN OUT FLOOR DRAIN FD **Ø**C-----ROOF DRAIN (ABOVE) FLOOR SINK FS CC SHUT-OFF VALVE IN VALVE BOX \longrightarrow SHUTOFF VALVE BALL VALVE CALIBRATED BALANCING VALVE **──**₩── CHECK VALVE (SWING) **─**─Ñ── _____**i**____ PRESSURE REDUCING VALVE SOLENOID OPERATED VALVE **₩₩** REDUCED PRESSURE BACKFLOW PREVENTER RELIEF OR SAFETY VALVE GAS COCK GAS PRESSURE REGULATOR SHUTOFF VALVE ON RISER GAS COCK ON RISER CONNECTION, TOP CONNECTION, BOTTOM ELBOW, TURNED DOWN ELBOW, TURNED UP TEE, TURNED UP TEE, TURNED DOWN CAP DIRECTION OF FLOW COMPRESSED AIR PRESSURE REGULATOR 1/2" LINE TO PRIMER REVISION REFERENCE DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON

PLUMBING SYMBOL LEGEND

PLUMBING DRAIN SCHEDULE							
SYMBOL	MANUFACTURER	MODEL	STRAINER	REMARKS			
FD-1	ZURN	Z415-S	POLISHED NICKEL BRONZE	SQUARE TOP FOR TILE LOCATION TRAP GUARD.			
FD-2	ZURN	Z415-SH-Y	CAST IRON	SQUARE TOP, SEDIMENT BUCKETRAP GUARD.			
AD-1	ZURN	Z415-V	NICKEL BRONZE	ROUND STRAINER, TRAP GAURD, BACKWATER VALVE.			
RD-1	ZURN	Z-163-GD	CAST IRON	UNDERDECK CLAMP, SUMP RECEIVER, 2" EXTERNAL DAM.			
PD-1	ZURN	Z-350-SS-SD	CAST IRON	UNDERDECK CLAMP, RISER EXTENTION VARIABLE PER PLANT			

GENERAL NOTES

- REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
- 2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
- 3. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- 4. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
- 5. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL
- 6. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
- SLEEVE ALL PENETRATIONS THROUGH WALLS, CEILING, AND FLOORS. SLEEVE AND/OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING

OF THE WALL, CEILING, OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

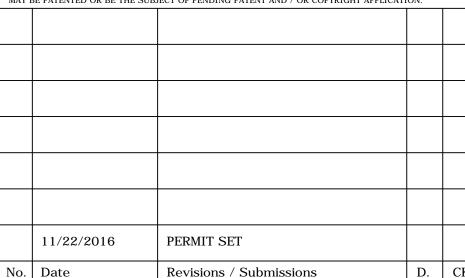
8. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.

ROOMS OR AS SPECIFICALLY NOTED.

- 9. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE STRUCTURAL ENGINEER BEFORE ANY PENETRATIONS ARE MADE.
- 10. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
- 11. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- 12. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
- 13. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES,
- DEVICES, APPLIANCES AND APPARATUS. 14. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
- 15. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE. PROVIDE EACH HOSE BIBBS WITH
- ISOLATION VALVE.
- 16. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
- 17. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
- 18. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT
- 19. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE
- 20. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
- 21. INSTALL ISOLATION/SHUT-OFF VALVES AT ALL MAIN RISERS AND MAIN BRANCH TAKEOFFS, TO PERMIT ISOLATION OF PIPING SECTIONS OR ENTIRE SYSTEM.
- 22. PROVIDE RIGID SUPPORT SWAY BRACING AT ALL CHANGES IN DIRECTION GREATER THAN 45° ON PIPING 4" AND LARGER
- 23. PROVIDE WATER HAMMER ARRESTOR ON ALL COLD AND HOT WATER LINES SERVING FIXTURES USING FLUSH VALVES, SOLENOID VALVES, OR QUICK CLOSING DEVICES. ARRESTORS SHALL BE SIZED IN ACCORDANCE WITH P.D.I. STANDARDS FOR THE TOTAL NUMBER OF FIXTURES SERVED.
- 24. ALL PIPING SHALL BE PROTECTED FROM THE INTRUSION OF WATER, DUST, DIRT, DEBRIS, ETC. WHILE STORED ON SITE AND DURING CONSTRUCTION.
- 25. ALL PRODUCTS USED INDOORS SHALL HAVE LOW VOC CONTENT THAT QUALIFIES FOR
- THE LATEST VERSION OF LEED. 26. ALL EXTERIOR HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

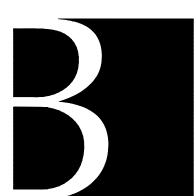
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LAWRENCE M. STOFF PE #78586



100 E. MADISON STREET, SUITE 100 TAMPA, FLORIDA 33602

813.549.1900

INFO@BAKERBARRIOS.COM **BAKERBARRIOS.COM**

Baker Barrios AA0002981 + LC26000427

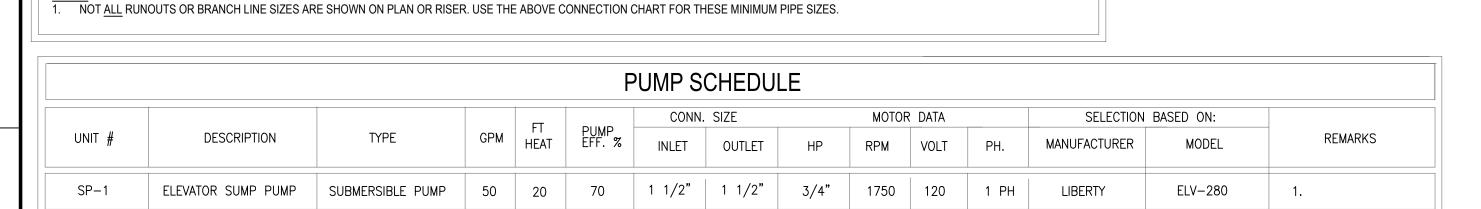
400 CLEVELAND STREET

THE SKYVIEW AMENITY/PARKING 400 CLEVELAND, LLC.

CLEARWATER, FLORIDA 33755

PLUMBING LEGEND

PROJECT NO.: P000 130270.00



			ELEC	CTRIC WA	TER HEAT	TER SCHE	DULE			
LINUT //	CEDVING	TVDE	CALLONG		GPH REC. VOLT/PHAS	C. VOLT/PHASE WEIGHT	WEIGHT	DIMENCIONO	MANUFACT	ΓURER
UNIT # SERVING	SERVING TYPE GALLONS INPUT KW	INPUT KW	© 70°F RISE CURRENT DRAW (LBS.) (PER PHASE)			DIMENSIONS	MANUFACTURER	MODEL #		
EWH-1	AMENITIES BUILDING	ELECTRIC	30	3.0	18	208V - 1ø	125	28" H x 20"ø	AO SMITH	DEN-30

1. PROVIDE WITH EXPANSION VALVE, T & P VALVE AND WATER HEATER DRAIN PAN. 2. COORDINATE WATER HEATER LOCATION AND PIPING WITH MECHANICAL PLANS.

NOTES: 1. PROVIDE OIL DETECTION SYSTEM.

