

CITY OF MIAMI

CAPITAL IMPROVEMENTS AND TRANSPORTATION PROGRAM

Jeovanny Rodriguez, P.E., Director

Mayor Tomas P. Regalado

Chairman Wifredo (Willy) Gort

> Commissioner Francis Suarez

Commissioner Ken Russell

Commissioner Frank Carollo

Commissioner Keon Hardemon

City Manager Daniel J. Alfonso SITE 1901 N.W. 24TH AVENUE MIAMI, FLORIDA 33125 FLAGLER ST S.W. 22 ST S.W. 40 ST

CURTIS PARK NEW POOL FACILITY

PROJECT NO. B-35806

1901 N.W. 24TH AVENUE MIAMI, FLORIDA 33125

> **BID SET** AUGUST 01, 2016



ARCHITECT'S CONCEPTUAL SKETCH

ARCHITECT OF RECORD

GILI-McGRAW ARCHITECTS, LLP 5801 SOUTHWEST 99th TERRACE MIAMI, FL 33156 TEL (305)663-1263



STRUCTURAL ENGINEER

BRILL, RODRIGUEZ, SALAS & ASSOCIATES, INC. 9360 SUNSET DRIVE, SUITE 262 MIAMI, FL 33173 TEL (305)273-4204 FAX (305)273-6575



LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECTURE LAND PLANNING 17670 N.W. 78TH AVENUE, Suite 214 MIAMI, FLORIDA 33015 PHONE: 305-392-1016 FAX: 305-392-1019 EMAIL: rgdesign@bellsouth.net CORPORATE #: LC0000266

GARDNER DESIGN

AQUATIC DESIGN CONSULTANT

AQUADYNAMICS, INC. 5000 SOUTHWEST 75TH AVENUE SUITE 103 MIAMI, FL 33155 TEL (305)667-8975 FAX (305)662-1002

M.E.P. ENGINEER

BASULTO AND ASSOCIATES 14160 PALMETTO FRONTAGE ROAD SUITE 22 MIAMI LAKES, FL 33016 TEL (305)698-3988 FAX (305)698-3989

Mechanical/Electrical Reg. # EB0006722

INDEX OF DRAWINGS

COVER SHEET

ARCHITECTURAL

NOTE: CIVIL DRAWINGS BY SCS ENGINEERS, FOR THIS PROJECT HAVE BEEN SUBMITTED UNDER SEPARATE PERMIT.

CITY OF MIAMI **CAPITAL IMPROVEMENTS**

33125

B-35806 NUE, MIAMI, I

PARTITION TYPES & DETAILS JAMB DETAILS GENERAL DETAILS LIFE SAFETY

DOOR & FINISH SCHEDULE

SITE SELECTIVE DEMOLITION PLAN

CONTROL BOOTH PLAN AND SECTIONS

POOL FACILITY EXTERIOR ELEVATIONS POOL FACILITY EXTERIOR ELEVATIONS

SITE PLAN FLOOR PLAN

SITE DETAILS

PARTIAL FLOOR PLANS

LIFE SAFETY PLAN STRUCTURAL

STRUCTURAL GENERAL NOTES FOUNDATION PLAN - POOL

MECHANICA MECHANICAL NOTES AND SCHEDULES

MECHANICAL PLAN - POOL MECHANICAL DETAILS

ELECTRICAL GENERAL NOTES AND LEGEND ELECTRICAL SITE DEMOLITION PLAN ELECTRICAL SITE PLAN PHOTOMETRIC SITE PLAN LIGHTING PLAN ELECTRICAL PLAN ELECTRICAL SCHEDULE DETAILS

PLUMBING NOTES AND SCHEDULES PLUMBING SITE PLAN PLUMBING PLAN - POOL DETAILS

POOL SITE PLAN POOL AREA PLAN POOL LAYOUT PLAN POOL DETAILS POOL DETAILS POOL EQUIPMENT SCHEDULE LANDSCAPE

EXISTING TREE DISPOSITION PLAN PLANTING PLAN LANDSCAPE DETAILS

"CITY OF MIAMI SIGNATURE STAMP"

REVISIONS

NUMBER DATE DESCRIPTION 11.25.2015 100% REVIEW COMMENTS 02.04.2016 REVIEW COMMENTS 07.28.2016 REVIEW COMMENTS

GARY McGRAW, AIA

AR0008072

PLUMBING FIXTURE COUNT (TABLE 403.6, FBC 2010) POOL WATER SURFACE SIZE: 2,500 S.F.

	MEI	N'S RESTRO	MOMEN'S F	RESTROOMS	
	URINALS	MC	NC	LAV.	
REQUIRED	I	1	1	1	I
PROVIDED	m	2	2	4	2

UNISEX BATHING ROOM REQUIRED: I (PER 403.5, FBC 2010) UNISEX BATHING ROOM REQUIRED:

TRANSECT ZONE (MIAMI 21): CS, CIVIC SPACE

BUILDING DISPOSITION		
LOT OCCUPATION	REQUIRED	PROVIDED
a. LOT AREA		
b. LOT WIDTH		
c. LOT COVERAGE		
d. FLOOR LOT RATIO (FLR)		
e. FRONTAGE AT FRONT SETBACK		
F. GREEN SPACE REQUIREMENTS		
g. DENSITY		
BUILDING SETBACK		
a. PRINCIPAL FRONT		
b. SECONDARY FRONT		
c. SIDE		
d. REAR		

PARKING (PER ARTICLE 4, TABLE 4, MIAMI 21)

- * MIN. OF I SPACE FOR EVERY 1,000 S.F. OF RECREATION SPACE
- * MIN. OF I SPACE FOR EVERY STAFF MEMBER FOR RECREATION USE * MIN. OF I SPACE FOR EVERY 500 S.F. OF BUILDING AREA FOR RECREATION
- * MIN. OF I BIKE SPACE FOR EVERY 20 VEHICULAR SPACES REQUIRED PARKING SPACES REQUIRED: PARKING SPACES PROVIDED: BIKE SPACES REQUIRED:

FLOOD ZONE: AE

BASE FLOOD ELEVATION 9.0' AS ESTABLISHED BY FEMA

BIKE SPACES PROVIDED:

LEGAL DESCRIPTION

A PORTION OF THE NW ¼ OF SECTION 34, TOWNSHIP 53 SOUTH, RANGE 41 EAST, MIAMI-DADE COUNTY, FLORIDA, BOUNDED ON THE NORTH BY THE N.W. NORTH RIVER DRIVE, ON THE SOUTH BY THE MIAMI RIVER, ON THE WEST BY N.W. 24TH AVENUE AND ON THE EAST BY LOT C OF WASHBURNS SUBDIVISION, RECORDED IN PLAT BOOK 4, AT PAGE 112. LYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT A MONUMENT WICH IS THE INTERSECTION OF THE MONUMENT LINES OF N.W. 24TH AVENUE WITH N.W. NORTH RIVER DRIVE AS SHOWN IN THE ATLAS SHEET NO. 25B; THENCE S54°59'55"E, ALONG THE MONUMENT LINE OF N.W. NORTH RIVER DRIVE, A DISTANCE OF 102.16 FEET; THENCE S35"16'12"W, A DISTANCE OF 25.00 FEET TO THE POINT OF BEGINNING; THE FOLLOWING FOUR COURSES RUN ALONG THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF N.W. NORTH RIVER DRIVE AND 25 FEET SOUTHWESTERLY OF AND PARALLEL WITH THE MONUMENT LINE OF CITY OF MIAMI RECORDED IN ATLAS SHEET NO. 25B AND 25F: THENCE S54°59'55"E. A DISTANCE OF 397.69 FEET TO A POINT OF CURVATURE A CIRCULAR CURVE; THENCE SOUTHEAST 96.93 FEET, ALONG THE ARC OF SAID CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 275.00 FEET AND A CENTRAL ANGLE OF 20°11'40" TO A POINT OF TANGENCY; THENCE S34'48'15"E, A DISTANCE OF 305.92 FEET TO A POINT OF CURVATURE A CIRCULAR CURVE; THENCE SOUTHEAST 58.16 FEET, ALONG THE ARC OF SAID CURVE, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 60.00 FEET AND A CENTRAL ANGLE OF 55°32'30" TO A POINT; THENCE NO0°20'45"W, A DISTANCE OF 10.00 FEET; THENCE N89°39'15"E, A DISTANCE 1.43 FEET TO A POINT ON THE WESTERLY BOUNDARY LINE OF LOT "C", OF "WASHBURNS SUBDIVISION", AS RECORDED IN PLAT BOOK 4, AT PAGE 112, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; THENCE S00°05'01"W, ALONG SAID BOUNDARY LINE A DISTANCE OF 106.61 FEET; THE FOLLOWING FIVE COURSES RUN ALONG THE A LINE 1 FOOT TOWARD THE PROPERTY OF AND PARALLEL APPROXIMATELY WITH EDGE OF WATER; THENCE N57°23'46"W, A DISTANCE OF 105.41 FEET; THENCE N02°11'48"E, A DISTANCE OF 101.03 FEET; THENCE N88°01'36"W, A DISTANCE OF 76.09 FEET; THENCE S39°17'48"W, A DISTANCE OF 52.88 FEET; THENCE N65'57'06"W, A DISTANCE OF 36.00 FEET TO A POINT ON THE FACE OF THE EXISTING SEAWALL; THE FOLLOWING FIVE COURSES RUN ALONG SAID SEAWALL; THENCE N78°54'53"W, A DISTANCE OF 63.86 FEET; THENCE N79°18'52"W, A DISTANCE OF 81.63 FEET; THENCE N79°42'32", A DISTANCE OF 118.00 FEET; THENCE N83°17'24"W, A DISTANCE OF 17.94 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF N.W. 24TH AVENUE; THENCE NOO'00'W, ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 419.86 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE; THENCE NORTHEAST 54.54 FEET, ALONG THE ARC OF SAID CURVE, CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 25.00 FEET AND A CENTRAL ANGLE OF 125°00'05" TO THE POINT OF BEGINNING.

CONTAINING 179,334 SQUARE FEET OR 4.12 ACRES MORE OR LESS BY CALCULATIONS.

A/C AIR CONDITION, -ED, -ER, -ING FIN. FINISH ADJ. ADJUSTABLE FL. FLOOR A.F.F ABOVE FINISH FLOOR F.M. FRAMED MIRROR ALUM. FT. ALUMINUM FEET / FOOT AND FTG. FOOTING **ANGLE** F.V. FIELD VERIFY APPROX APPROXIMATELY GA. GAUGE GALV GALVANIZED BD. BOARD G.B. GRAB BAR G.C. BLDG. BUILDING GENERAL CONTRACTOR BLK. BLOCK G.L. GRID LINE

BM. BEAM G.W.B GYPSUM WALL BOARD GYP. B.M. BENCH MARK GYPSUM H.B. HOSE BIBB CAB. CABINET HCPD HANDICAPPED C. BRD CHALKBOARD HOLLOW METAL H.M C.B. CATCH BASIN HORIZ HORIZONTAL C.C. CONTROL CENTER HRDW. HARDWARE CEIL./CLG CEILING HEIGHT C.I. CAST IRON

H.P. HIGHEST POINT H.O HAND OPPOSITE LD. INSIDE DIAMETER INSULATION

INSUL INV INVERT JAN. JT. LAM. LAV. L.L.H.

LND'G

L.P.

MAT.

MAX.

L.M

MECH.

M.E.P

M.H

MIN

MISC.

M.O.

MTD.

MTL.

N.G.V.D

NEOP.

NO. / #

N.I.C.

0.0.

O.D.

0.5.

I.D. No. SECTION/

REVISON MARK

CENTERLINE

PARTITION TYPE

DOOR MARK

SHEET No.

JANITOR THIOL LAMINATED LAVATORY LONG LEG HORIZONTAL LANDING LIGHT POLE OR LOWEST POINT MIRROR MATERIAL MAXIMUM MOVEMENT JOINT

MECHANICAL MECH., ELEC., & PLUMBING MANUF. OR MFG. MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS

MASONRY OPENING MOUNTED METAL NATIONAL GEODETIC VERTICAL DATUM NEOPRENE

NUMBER NOT IN CONTRACT ON CENTER

VERT. M.C. M/DM.H.

PLYMD.

PT. / PTD.

P.P.

P.T.D.

P.V.C.

P.L.S.

R./RAD.

R.C.P.

RECT.

REINF.

REQ'D.

RM.

R.M.V

R.O.

SCH.

S.D.

SHT

SIM.

S.M.S.

S.N.D.

S.N.V.

SPC.

SQ.

S.S.

STD.

STL.

SM.

T. BD.

T. \$ G.

T.B.

T.O.

T.P.H.

TYP.

U.N.O.

UR.

UTIL.

V.C.P

V.C.T.

STRUCT

SPECS

R.O.W.

R.D.

PLYWOOD

PANEL

POWER POLE

ROOF DRAIN

REQUIRED

ROOM

RECTANGULAR

REINFORCEMENT

ROUGH OPENING

SOAP DISPENSER

RIGHT-OF-WAY

SCHEDULE

SMOOTH

SIMILAR

SPACE

SQUARE

STEEL

SMITCH

TOILET

STANDARD

STRUCTURAL

TACKBOARD

TONGUE AND GROOVE

TOILET PAPER HOLDER

UTILITY / UTILITIES

VITREUOS CLAY PIPE

VENT THROUGH ROOF

WASHER AND DRYER

VINYL COMPOSITION TILE

UNLESS NOTED OTHERWISE

TIE BEAM

TOP OF

TYPICAL

VERTICAL

SPECIFICATIONS

ROOF MANIFOLD VALVE

RAIN WATER LEADER

STRUCTURAL METAL STUD

SANITARY NAPKIN DISPOSAL

SANITARY NAPKIN VENDOR

STAINLESS STEEL OR SERVICE SINK

PAINT / PAINTED

PRESSURE TREATED

POLYVINYL CHLORIDE

PAPER TOWEL DISPENSER

PLASTIC LAMINATE SURFACING

REINFORCED CONCRETE PIPE

MOOD MATER HEATER MASTE RECEPTACLE

MATER CLOSET

OUTSIDE DIAMETER

OVERFLOW SCUPPER

PLASTIC LAMINATE

PEGBOARD

PLUMBING

PLATE OR PROPERTY LINE

GRID LINE

WINDOW MARK

GLAZING ELEVATIONS

INTERIOR ELEVATION KEY

INTERIOR ELEVATION MARK

EQUIPMENT MARK

MATCHLINE

BREAK OR CUT LINE

(1 | A1-1)

SIGNAGE TARGET

METAL (LARGE SCALE)

INSULATION (RIGID)

MATERIALS

CAST-IN-PLACE CONCRETE

(LARGE SCALE)

INSULATION (LOOSE OR BATT)

PLASTER, SAND, CEMENT, GROUT

(LARGE SCALE)

SOUND INSUL. PARTITION (LARGE SCALE)

THE STUD PARTITION GLASS (LARGE SCALE) (LARGE SCALE)

> MOOD STUD PARTITION I (LARGE SCALE)

METAL LATH & PLASTER (LARGE SCALE)

METAL (SMALL SCALE)

MOOD BLOCKING

COMPACTED FILL

PLYWOOD (LARGE SCALE)

ABBREVIATIONS

C.J.

CLO./CL

C.L.P.

C.M.P.

C.M.U.

COL.

CONC.

CONST

CONT.

D.F.

DIM.

DISP

DN.

DR.

DWG.

EA.

E.J.

E.H.D.

ELECT

ELEV.

ENCL.

EQUIP.

E.M.C.

EXIST.

EXT.

F.E.C.

F.E.L.

F.H.

F.H.C.

SYMBOLS

0234

EQ.

D.O.T.

DTL./DET

CONTR.

DIA./DIAM.

CONTROL JOINT

CONCRETE LIGHT POLE

CORRUGATED METAL PIPE

CONCRETE MASONRY UNIT(S)

CENTER LINE

CLOSET

COLUMN

CONCRETE

CONTINUOUS

DIAMETER

DOOR

DETAIL

EAST

FACH

DRAWING

DIMENSION

CONTRACTOR

DRINKING FOUNTAIN

DISPENSER / DISPOSAL

ELECTRIC HAND DRYER

ELEVATOR / ELEVATION

ELECTRIC WATER COOLER

FIRE EXTINGUISHER CABINET

FIRE EXTINGUISHER LOCKER

EXPANSION JOINT

ELECTRICAL

ENCLOSURE

EQUIPMENT

EXISTING

EXTERIOR

FLOOR DRAIN

FIRE HYDRANT

I.D No. TITLES/

SCALE, SHEET No.

SQUARE FOOTAGE/

OCCUPANT LOAD

ROOM MARK

ANGLE MARK

ROOM FINISH

FIRE EXTINGUISHER

FIRE HOSE CABINET

EQUAL

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION



RUBBLE STONE

SLATE, FLAGSTONE

RESILIENT FLOORING



EEE ROCK

LIGHTWEIGHT CONCRETE



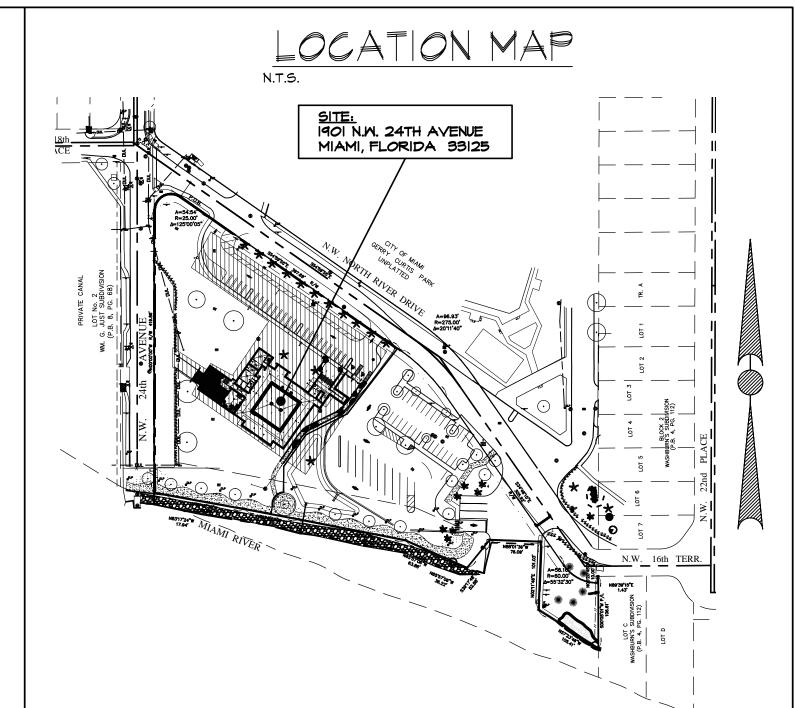
BRICK



FINISHED WOOD

| | | | GLASS BLOCK

POROUS FILL



GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING & CARRYING OUT ALL APPROPRIATE LIFE SAFETY PRECAUTIONS. INCLUDING, BUT NOT LIMITED TO, THE ERECTION OF SAFETY BARRIERS WHERE REQUIRED, MAINTENANCE OF TRAFFIC, SAFETY SIGNAGE, COMPLIANCE W/ THE TRENCH SAFETY ACT, FENCING AROUND WORK & STAGING AREAS, ETC. G.C. SHALL PROVIDE A SAFETY PLAN WHICH DELINEATES AREAS OF CONSTRUCTION AND CONSTRUCTION TRAFFIC DURING PHASES OF THE PROJECT.
- 2. DO NOT SCALE THE DRAWINGS. THE G.C. SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. THE G.C. SHALL POINT OUT ALL DISCREPANCIES TO THE ARCHITECT IMMEDIATELY IN WRITING BEFORE PROCEEDING W/ THE WORK
- 3. THE G.C. SHALL COORDINATE ALL TRADES BEFORE COMMENCEMENT OF WORK AND CONTINUOUSLY THROUGHOUT THE DURATION OF THE PROJECT. THE G.C. IS RESPONSIBLE TO COORDINATE ALL SPACING OF STRUCTURAL MEMBERS AND A/C DUCT/INFRASTRUCTURE CLEARANCES.
- 4. ALL WORK SHALL BE CONSTRUCTED PER F.B.C. 2010 EDITION W/ CURRENT AMENDMENTS THE 2010 F.B.C. - ACCESSIBILITY, N.F.P.A. 101, LATEST ED., O.S.H.A. (LATEST ED.), THE FLORIDA FIRE PREVENTION CODE, MIAMI 21, & THE CURRENT EDITION OF ALL APPLICABLE CODES & ORDINANCES HAVING JURISDICTION, AND WITH THE REQUIREMENTS OF THE UTILITY COMPANIES WHOSE SERVICES SHALL BE IMPACTED.
- 5. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND COMMENT PRIOR TO FABRICATION. SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BEAR THE CONTRACTOR'S REVIEW STAMP & SIGNATURE ATTESTING THAT THE CONTRACTOR REVIEWED AND COMMENTED UPON SAID SHOP DRAWINGS. SHOP DRAWINGS SUBMITTED WITHOUT THIS STAMP & SIGNATURE SHALL BE REJECTED OUTRIGHT, WITH NO REVIEW.
- 6. ALL WOOD IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED.
- 7. ALL NEW DOORS AND FRAMES SHALL BE CAULKED ON INSIDE AND OUTSIDE AROUND ENTIRE PERIMETER OF EACH FRAME. ALL EXTERIOR DOORS SHALL HAVE WEATHERSTRIPPING.
- 8. ALL EXTERIOR WINDOWS / GLAZING SHALL MEET MIAMI-DADE COUNTY APPROVAL FOR IMPACT & CYCLING PROTOCOLS 201, 202, AND 203.

9. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES @ ACCESSIBLE DOORWAYS SHALL BE

- BEVELED W/ A SLOPE NO GREATER THAN I:2 NOR A CHANGE IN ELEVATION GREATER THAN 2" PER 2010 F.B.C. - ACCESSIBILITY. 10. IMPORTANT: ALL STUCCO SHALL BE FULLY VERTICALLY APPLIED ON EXTERIOR WALL
- SURFACE FROM BASE TO PARAPET CAP AND HORIZONTALLY FROM CONTROL JOINT TO CONTROL JOINT IN ONE CONTINUOUS APPLICATION TO AVOID UNSIGHTLY "COLD JOINTS" AND
- II. EXACT LOCATIONS OF UNDERGROUND UTILITIES SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO ANY SUBSURFACE OPERATIONS OR EXCAVATION. CALL "SUNSHINE" AT I (800) 432-4770 AT LEAST 48 HRS IN ADVANCE OF DIGGING.
- 12. IMPORTANT: ALL MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE BETWEEN THE TRADES FOR ALL REQ'D. CLEARANCES, SIZES OF EQUIPMENT, ACCESS WIDTHS REQ'D., LOCATIONS, ETC. ANY \$ ALL VISIBLE DISCREPANCIES SHALL BE INDICATED TO THE ARCHITECT IN WRITING PRIOR TO THE BID DATE.
- 13. ALL FLOOR SLABS TO RECEIVE DRAINS SHALL BE RECESSED APPROPRIATELY TO ACHIEVE POSITIVE SLOPE TO THAT DRAIN @ A 1/2" PER FT. SLOPE (MIN.)
- 14. ALL ROOF-MOUNTED MECHANICAL EQUIPMENT SHALL RECEIVE HURRICANE TIE-DOWNS PER F.B.C./ HVAC F.E.M.A. REQUIREMENTS ON ALL FOUR SIDES. A FLORIDA REGISTERED ENGINEER SHALL BE EMPLOYED BY THE CONTRACTOR FOR ALL WORK ASSOCIATED WITH A/C SUPPORTS AND EQUIPMENT CURBS. SAID ENGINEER SHALL PROVIDE COMPLETE SIGNED AND SEALED CALCULATIONS IN ACCORDANCE WITH FBC, TO THE ENGINEER OF RECORD IN TANDEM WITH SHOP DRAWINGS SUBMITTAL.
- 15. AT ALL NEW SIDEWALKS, THE ADJACENT GRADES TO RECEIVE SOD SHALL BE NO GREATER THAN 2" BELOW THE FINISH ELEVATION OF THE SIDEWALK SURFACE. TOPSOIL \$ SOD SHALL BE LAID TO ENSURE THAT THE TOP OF THE SIDEWALK SURFACE & THE SOD FLUSH-OUT W/ EACH OTHER.
- 16. THE G.C. SHALL BE RESPONSIBLE FOR OBTAINING ANY/ALL EXISTING RECORD DRAWINGS OF "AS-BUILT" CONDITIONS; AND, BASED ON THAT INFORMATION, CONFIRMING ALL KNOWN ABOVE AND BELOW SURFACE CONDITIONS PRIOR TO COMMENCING WORK. IF IT IS DETERMINED THAT CONFLICTS IN THE WORK WILL RESULT, THE G.C. IS TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCING WORK IN THAT AREA.
- 17. THE G.C. SHALL SCHEDULE WORK & COORDINATE W/ THE CITY OF MIAMI TO MINIMIZE THE NUMBER OF PARK OPERATIONS INTERRUPTED DURING ANY WORK PERIOD. ALL EXISTING UTILITIES SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION UNLESS PREVIOUSLY APPROVED BY THE OWNER & ARCHITECT IN WRITING. THE CITY'S REPRESENTATIVE SHALL BE CONTACTED TO SIGN-OFF IN ADVANCE FOR ALL INTERRUPTIONS OF UTILITIES SERVICES.
- 18. PROVIDE PRODUCT CONTROL APPROVAL, IN ACCORDANCE WITH THE CITY OF MIAMI-DADE COUNTY, TO THE ARCHITECT FOR ALL MANUFACTURER DESIGNED ITEMS - INCLUDING DOORS, WINDOWS, AND ROOFING.
- 19. TRENCH SAFETY ACT: PROVIDE TRENCH SAFETY SYSTEMS @ ALL TRENCH EXCAVATIONS WHERE WORKERS MAY BE EXPOSED TO MOVING GROUND OR CAVE-INS REGARDLESS OF DEPTH OF TRENCH. ALL TRENCHES MORE THAN 5'-O" IN DEPTH SHALL COMPLY W/ THE "TRENCH SAFETY ACT," SECTIONS553.60 THROUGH 553.64 FLORIDA STATUTES.
- 20. REMOVE DEBRIS & CLEAN AREAS OF THE PROJECT SITE CONTAINING CONSTRUCTION MATERIALS, DEBRIS, & SPILLS ON A DAILY BASIS TO THE SATISFACTION OF THE ARCHITECT. DISPOSE USING COVERED RUBBISH CONTAINERS.

DATE: <u>10.01.2013</u> REVISIONS <u>/</u> 11.25.2015

DWG. No.

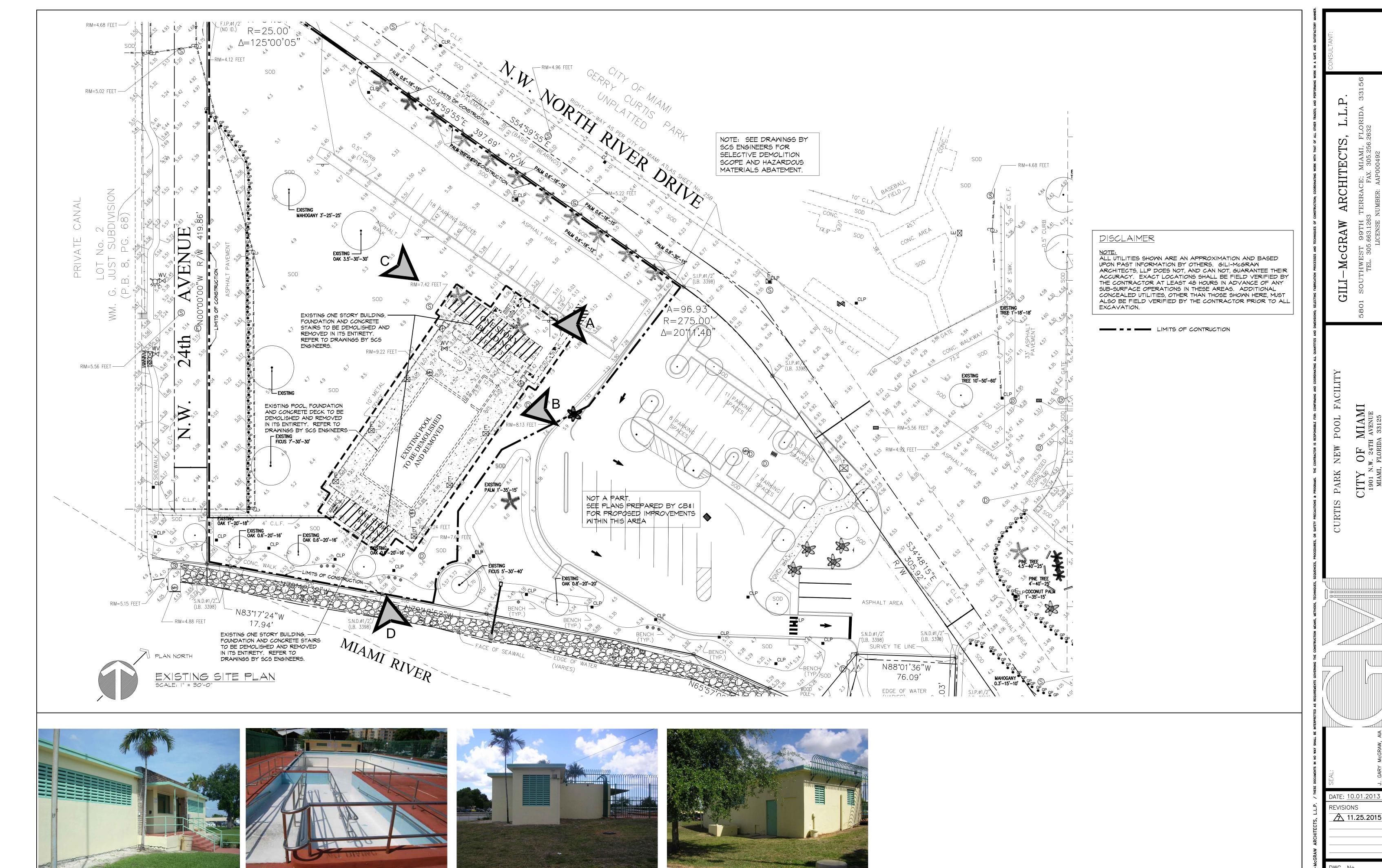


PHOTO VIEW 'D'

EXISTING POOL FACILITY BUILDING

(TO BE DEMOLISHED & REMOVED)

PHOTO VIEW 'B'

EXISTING POOL AND POOL DECK

(TO BE DEMOLISHED & REMOVED)

PHOTO VIEW 'A'

EXISTING POOL FACILITY

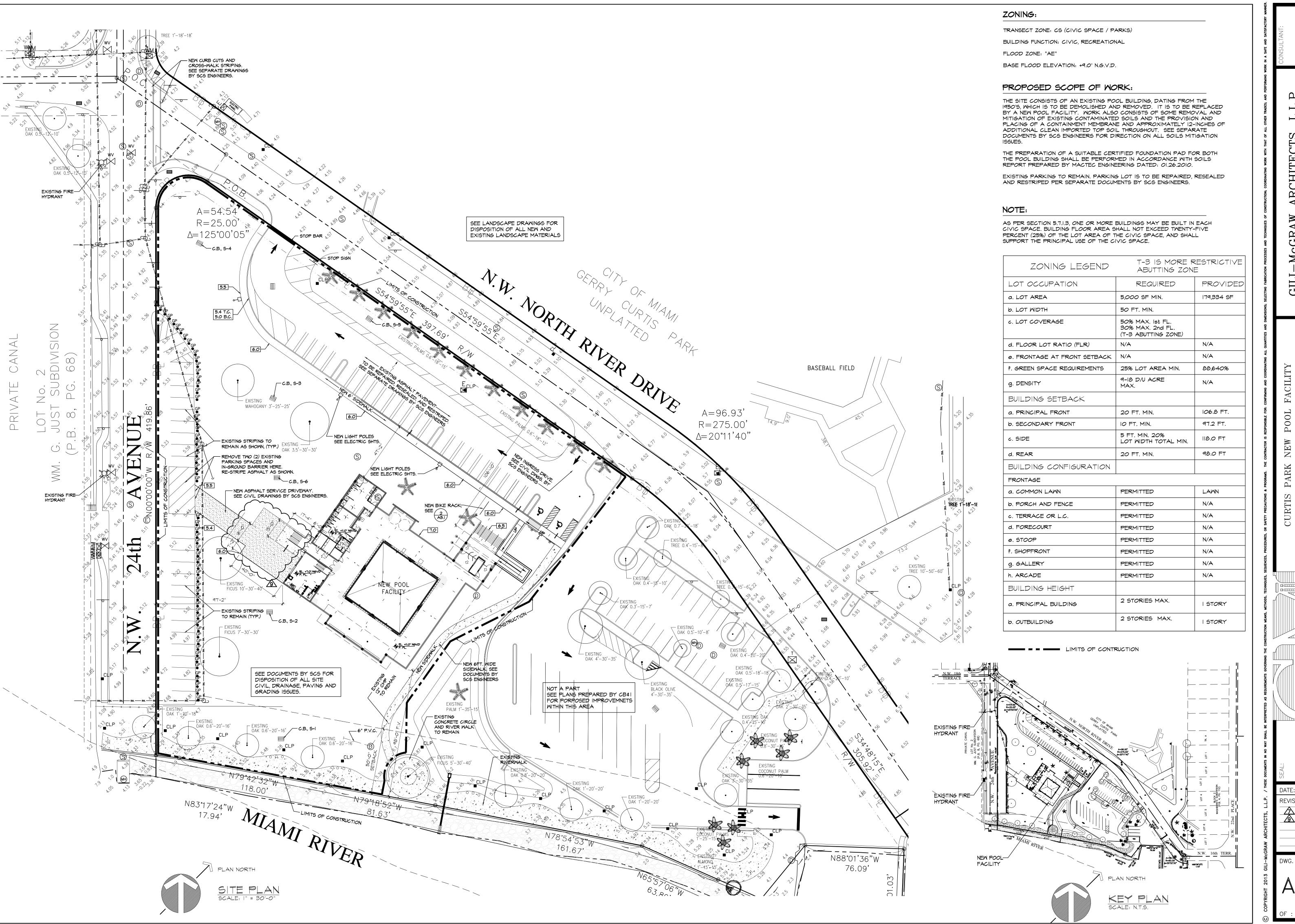
BUILDING

(TO BE DEMOLISHED & REMOVED)

PHOTO VIEW 'C'

EXISTING POOL FACILITY BUILDING

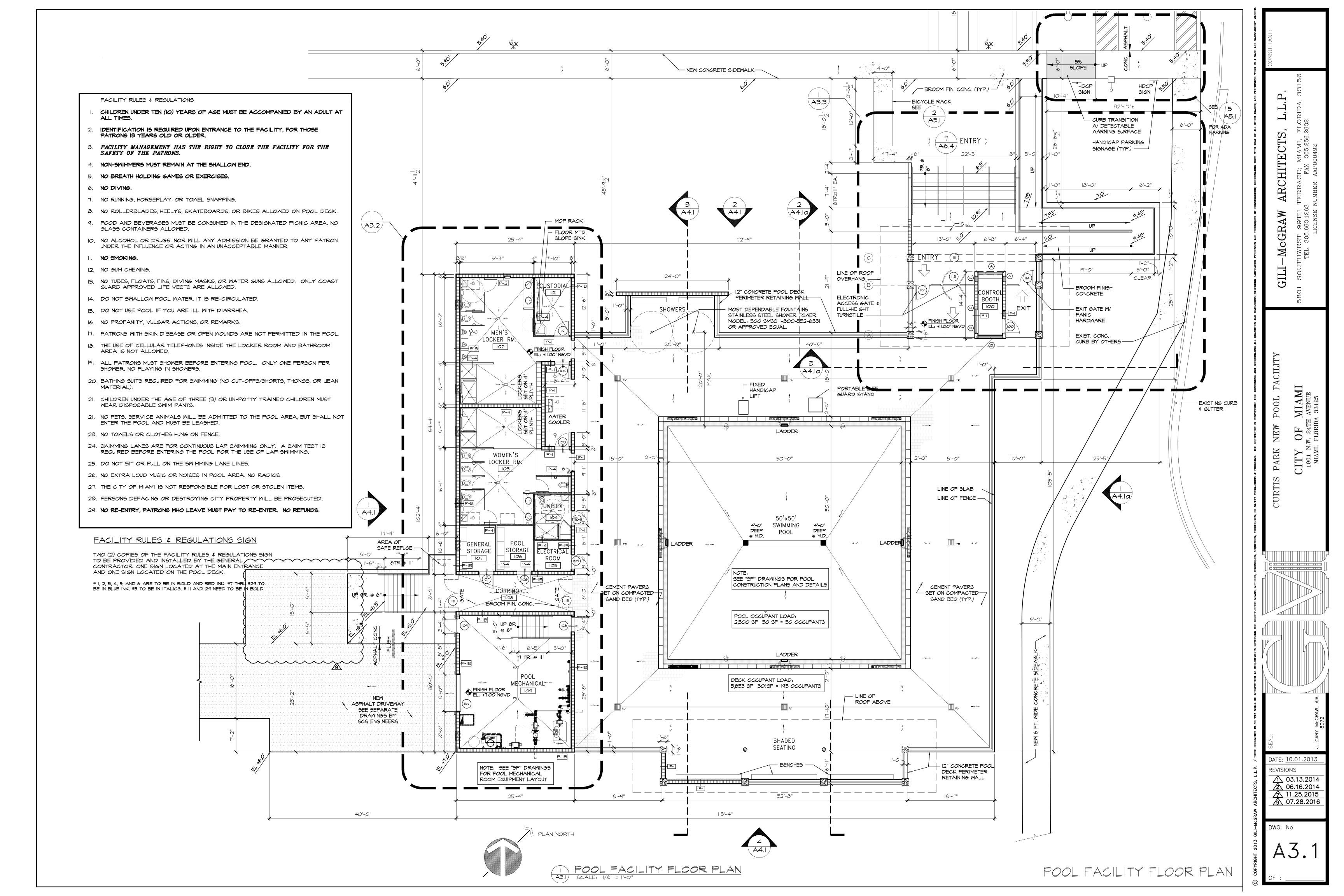
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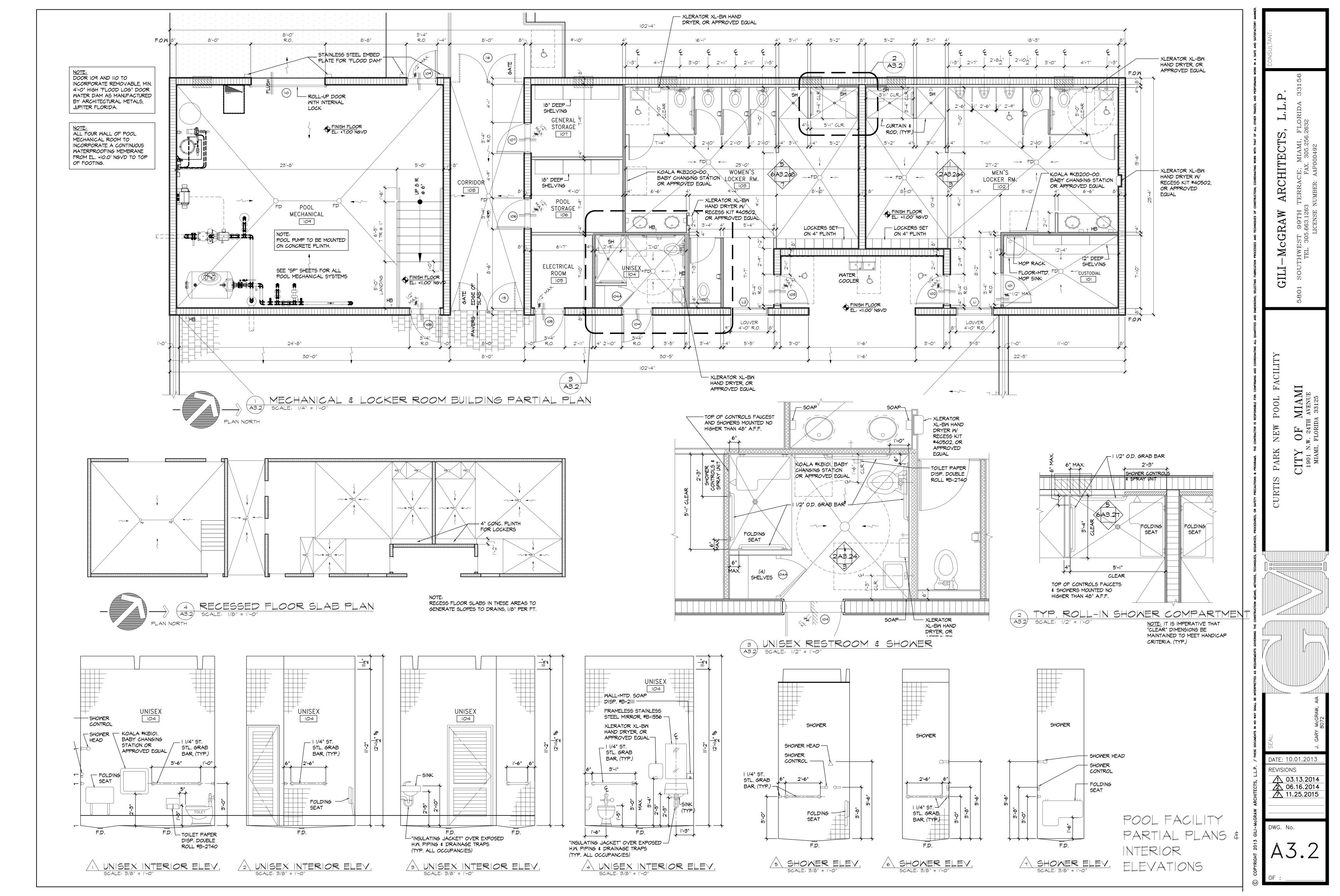


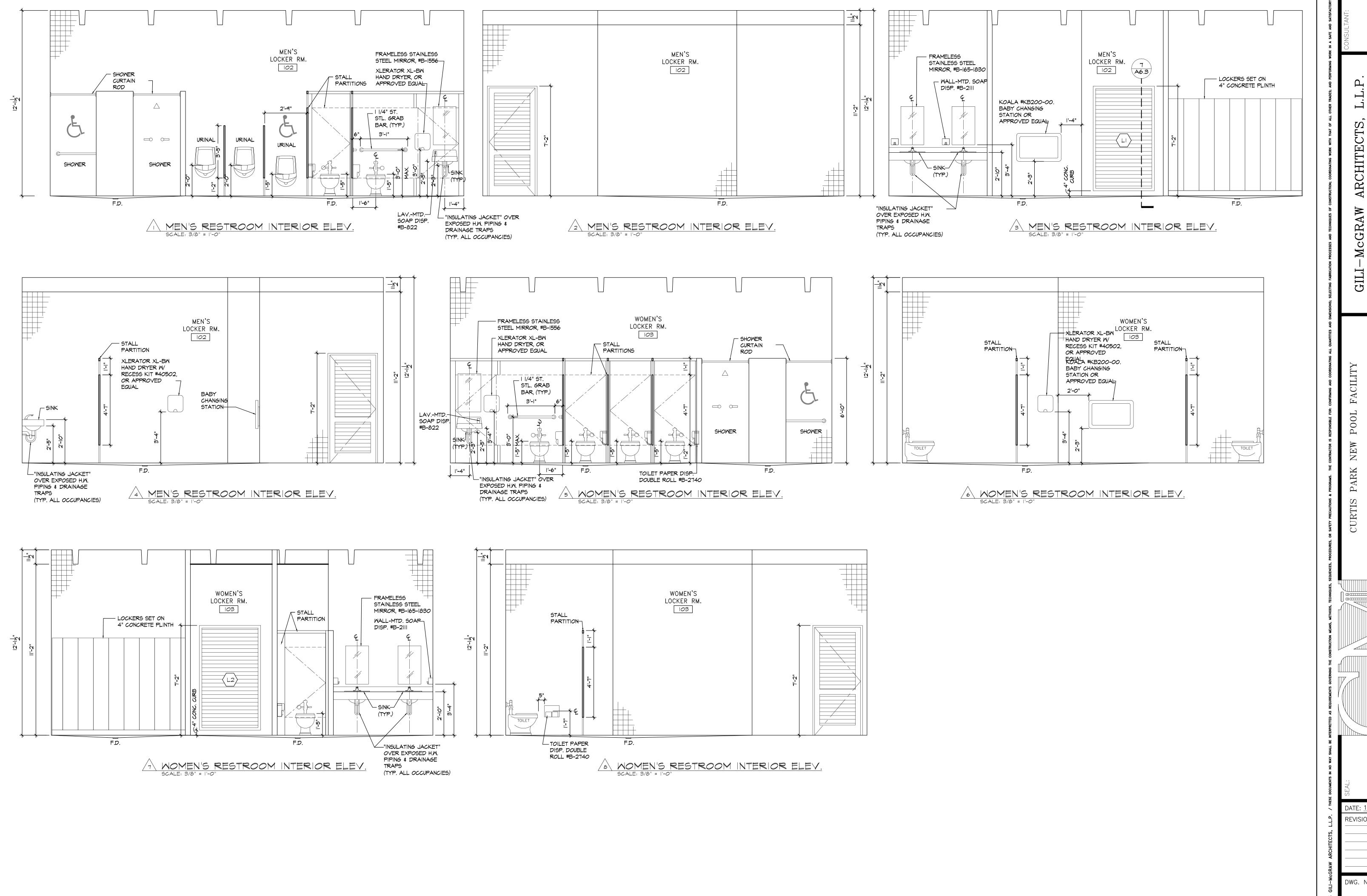
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DATE: <u>10.01.20</u>13

REVISIONS <u>/</u>11.25.2015 <u>/</u>9 07.28.2016

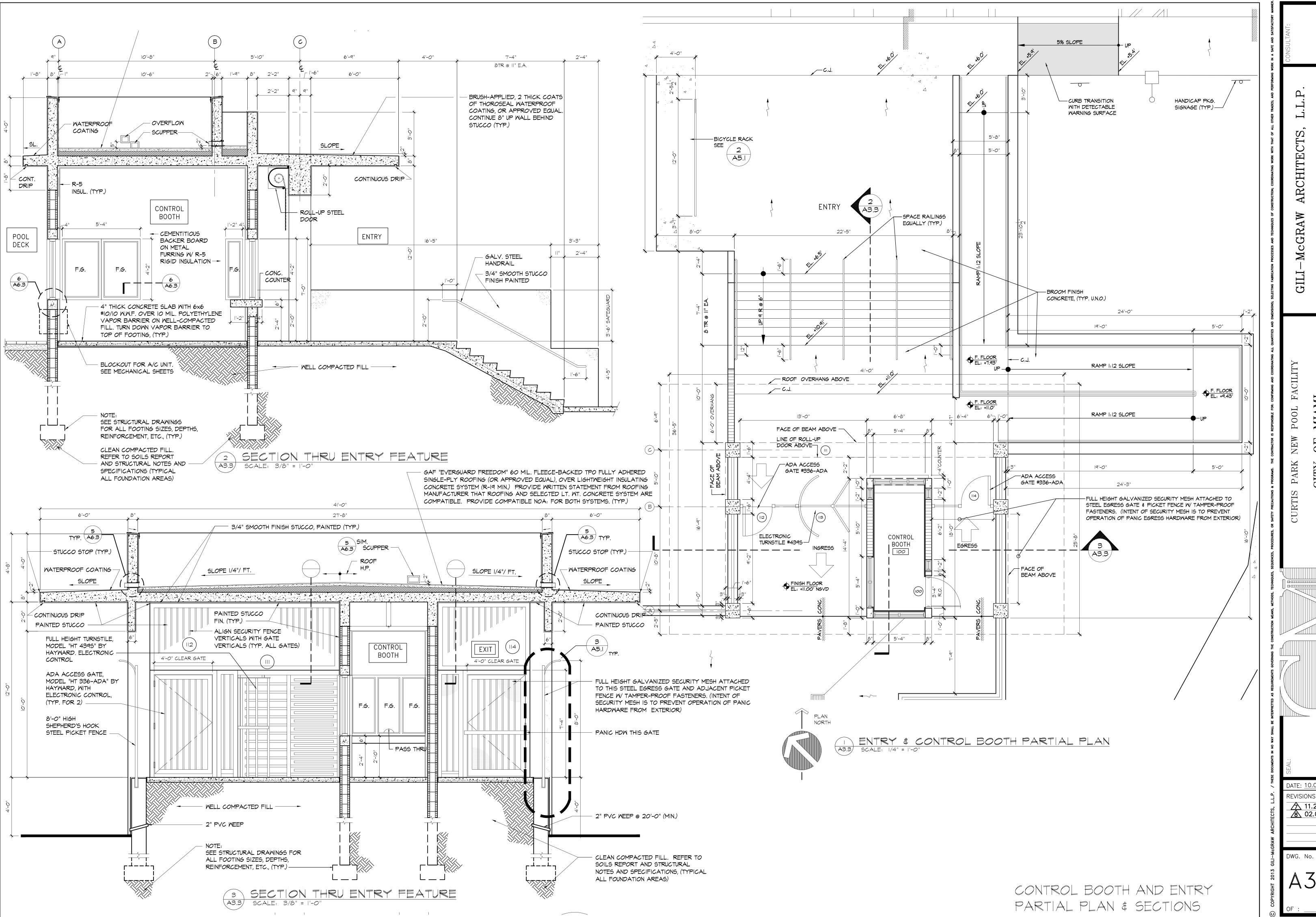




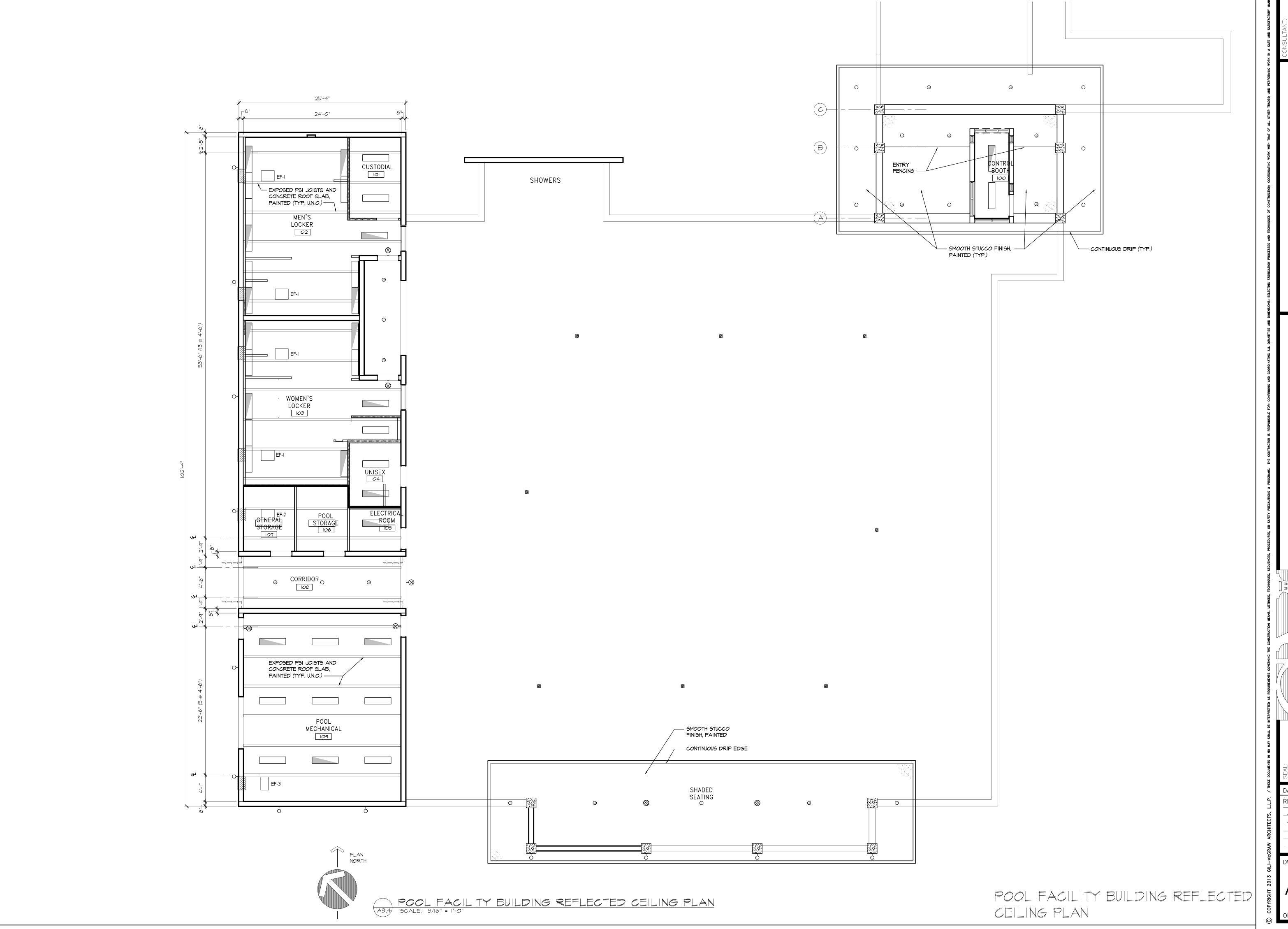


DATE: 10.01.2013 REVISIONS BATHROOM INTERIOR ELEVATIONS of :

OF



DATE: 10.01.2013 REVISIONS /h 11.25.2015 /8 02.04.2016



POOL **OF** W. 24T FLORI DATE: <u>10.01.2013</u> REVISIONS 11.25.2015 8 02.04.2016

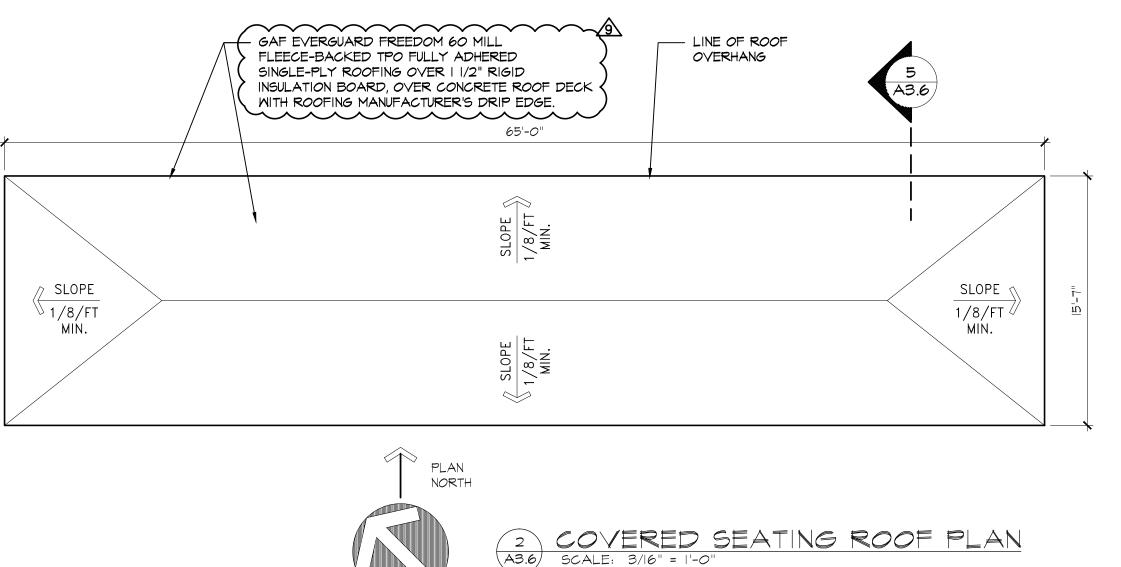
CALCS. FOR RAIN WATER LEADERS \$ OVERFLOW SCUPPERS

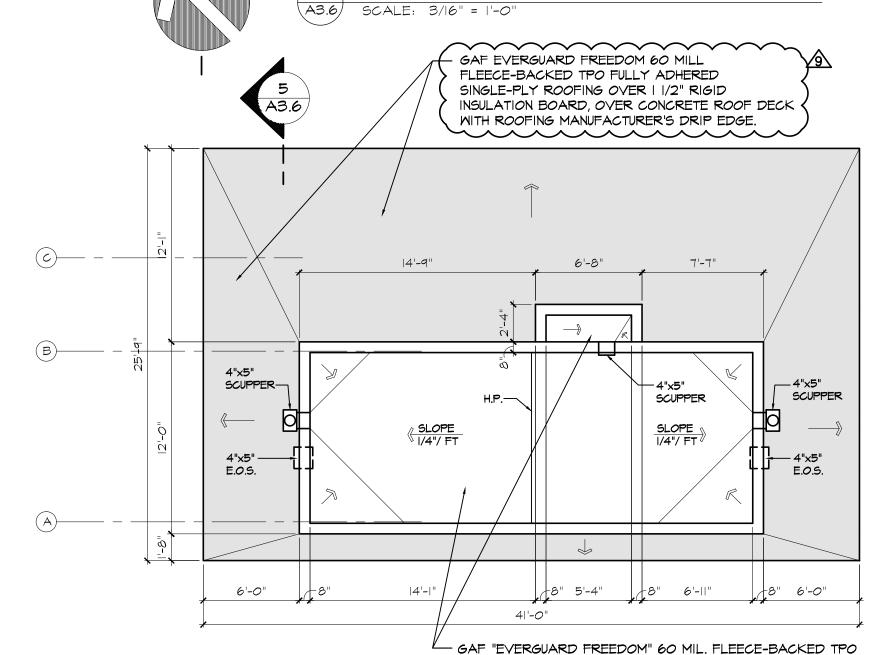
ROOF AREA MARK	ACTUAL ROOF AREA PER R.W.L.	PROPOSED R.M.L. SIZE (7.0 SQ. IN. REQ'D.)	ALLOWABLE ROOF AREA (SQ. FT.) PER PROPOSED R.W.L.	OVERFLOW SCUPPER AREA REQUIRED (PER ACTUAL ROOF AREA)	OVERFLOW SCUPPERS PROPOSED
A	651 S.F.	4" X 6" (24 5Q. IN.)	6,590	21 SQ. IN.	(4" X 8") 32 SQ. IN.
æ	488 S.F.	4" X 6" (24 SQ. IN.)	6,590	21 SQ. IN.	(4" X 8") 32 SQ. IN.
O	488 S.F.	4" X 6" (24 5Q. IN.)	6,590	21 SQ. IN.	(4" X 8") 32 SQ. IN.
D	651 S.F.	4" × 6" (24 SQ. IN.)	6,590	21 SQ. IN.	(4" X 8") 32 SQ. IN.

- I.) CALCULATIONS BASED ON IOO YEAR, I HOUR RAINFALL = 4.7" (FIGURE 1106.1 AND APPENDIX 'B', 2010 FLORIDA BUILDING CODE, PLUMBING)
- 2.) RAIN WATER LEADERS SIZED AS PER TABLE 1106.2 (2010 FLORIDA BUILDING CODE, PLUMBING)

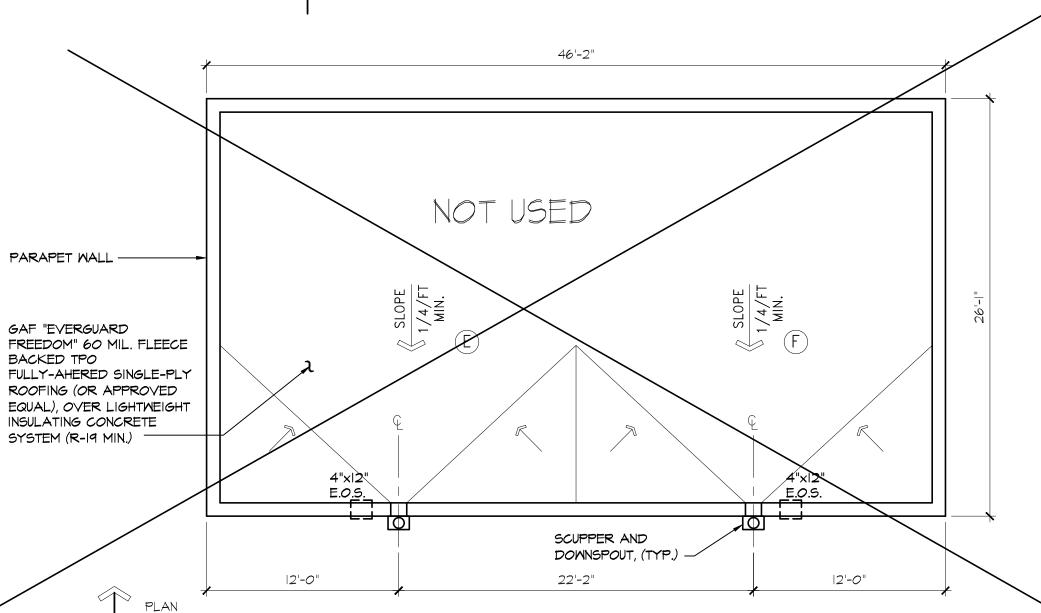
ROOFING GENERAL NOTES:

- I.) SEE M.E.P. DRAWINGS TO VERIFY AND IDENTIFY LOCATIONS OF THROUGH-THE-ROOF MECH., ELEC., AND PLUMBING PENETRATIONS.
- 2.) ALL ROOF SLOPES AND CRICKETS SHALL BE A MIN. OF ¼" PER FT. (TYPICAL).
- 3.) ROOFING SYSTEM SHALL COMPLY W/ WIND UPLIFT FORCES PER FLORIDA BUILDING CODE 2010 AND AS NOTED ON THE STRUCTURAL DRAWINGS. (TYPICAL).
- 4.) ALL ROOF HATCH, FAN, AND OTHER PENETRATIONS SHALL HAVE METAL, PRE-FABRICATED CURBS. ALL ROOF-MOUNTED EQUIPMENT SHALL BE SECURED WITH APPROVED TIE-DOWN STRAPS/CABLES. SEE TYPICAL DETAILS ON MECHANICAL DRAWINGS.
- 5.) SEE SHEET A6.9 FOR TYPICAL ROOF DETAILS.
- 6.) ALL CURBS SHALL RECEIVE A MIN. OF (2) TWO FASTENERS PER SIDE.
- 7.) THE G.C. SHALL MAINTAIN 10'-0" MIN. SEPARATION BETWEEN ALL AIR INTAKES, EXHAUSTS, AND PLUMBING VENTS.
- 8.) ALL ROOFING STANDARDS SHALL COMPLY W/ THE FOLLOWING:
- * UNDERWRITERS LABORATORIES UL-790 AND ASTM E-108 REQUIREMENTS FOR CLASS 'A' FIRE-RATING FOR ROOF COVERINGS.
- * FACTORY MUTUAL REQUIREMENTS FOR CLASS I RATED ASSEMBLIES \$ FM UPLIFT CLASSIFICATIONS AS DETERMINED BY A.S.C.E. 7-93, MIAMI-DADE COUNTY ROOFING PROTOCOLS.
- 9.) THE G.C. TO COORDINATE LOCATION OF ROOF EQUIPMENT WITH WALLS AND JOISTS BELOW. THE G.C. SHALL POINT OUT, IN WRITTING, ANY DISCREPANCIES AND/OR CONFLICTS TO THE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.



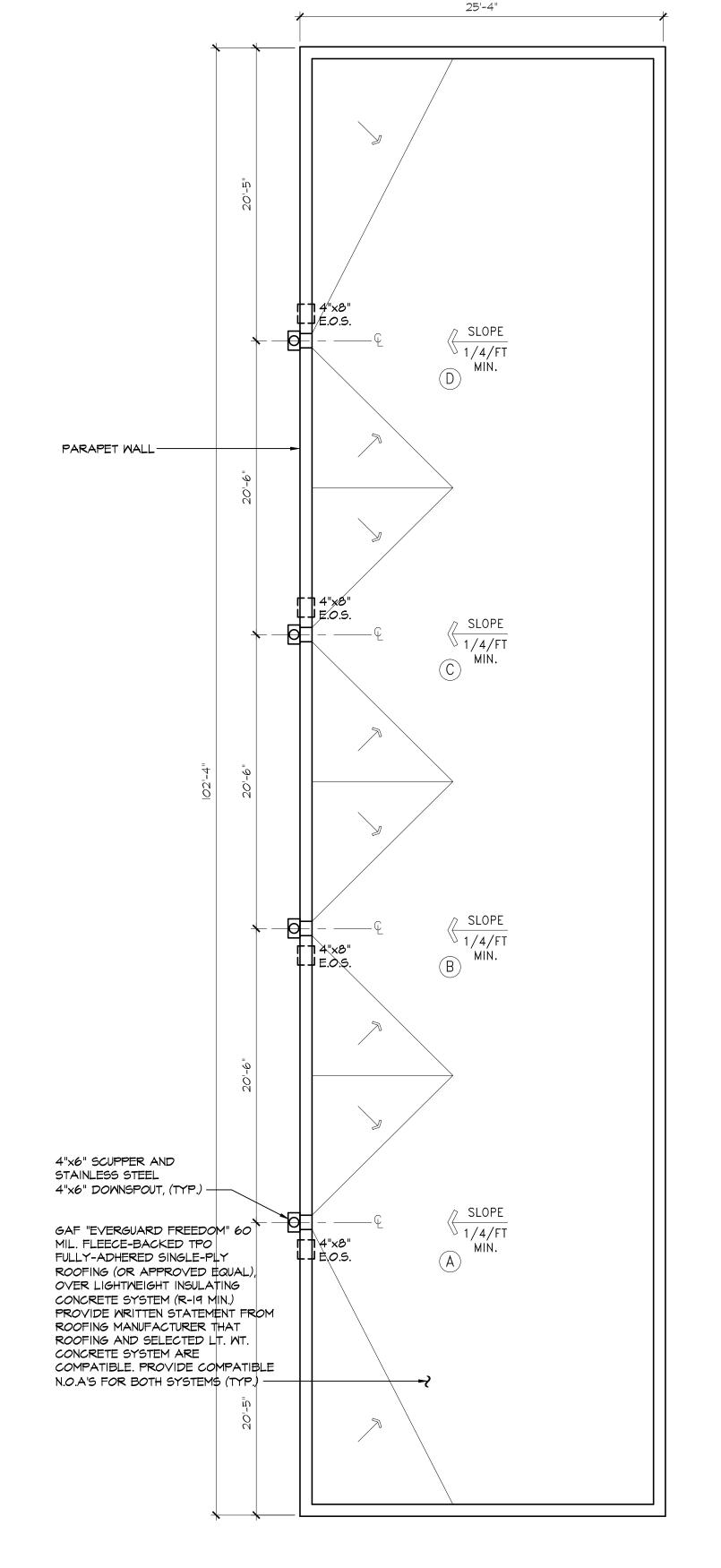


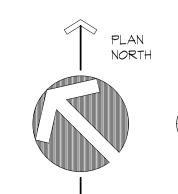




NORTH

BALLFIELD RESTROOMS ROOF PLAN "NOT USED"

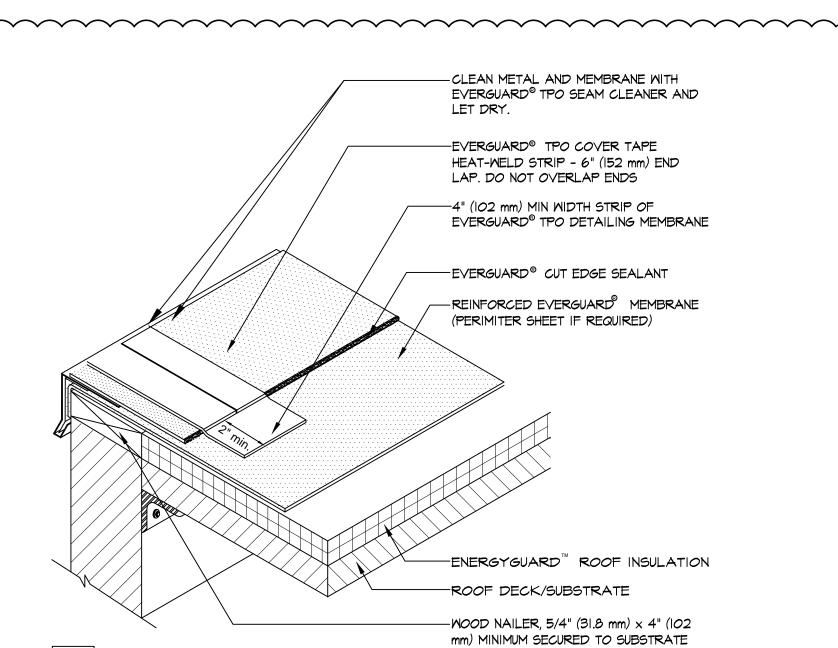




POOL FACILITY ROOF PLAN

SCALE: 3/16" = 1'-0"

ROOF PLANS & DETAILS



- I. EVERGUARD® TPO COVER TAPE HEATWELD STRIP ONLY TO BE USED WITH TPO MEMBRANE SYSTEMS ONLY. 2. PRIME THE METAL ONLY WITH EVERGUARD TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA. 3. HEAT WELD THE MEMBRANE (NON-ADHESIVE SIDE ONLY) TO MEMBRANE AREA USING EITHER A ROBOTIC OR
- HAND WELDER TO SPEC. 4. REFER TO DETAIL 218 FOR EVERGUARD® COVER TAPE HEATWELD ROOF EDGE INSTALLATION. 5. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A HARD BOARD IS REQUIRED ON MECHANICALLY
- FASTENED SYSTEMS ONLY. 6. APPLY EVERGUARD® TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES

(REFER TO EVERGUARD® DETAIL 115).

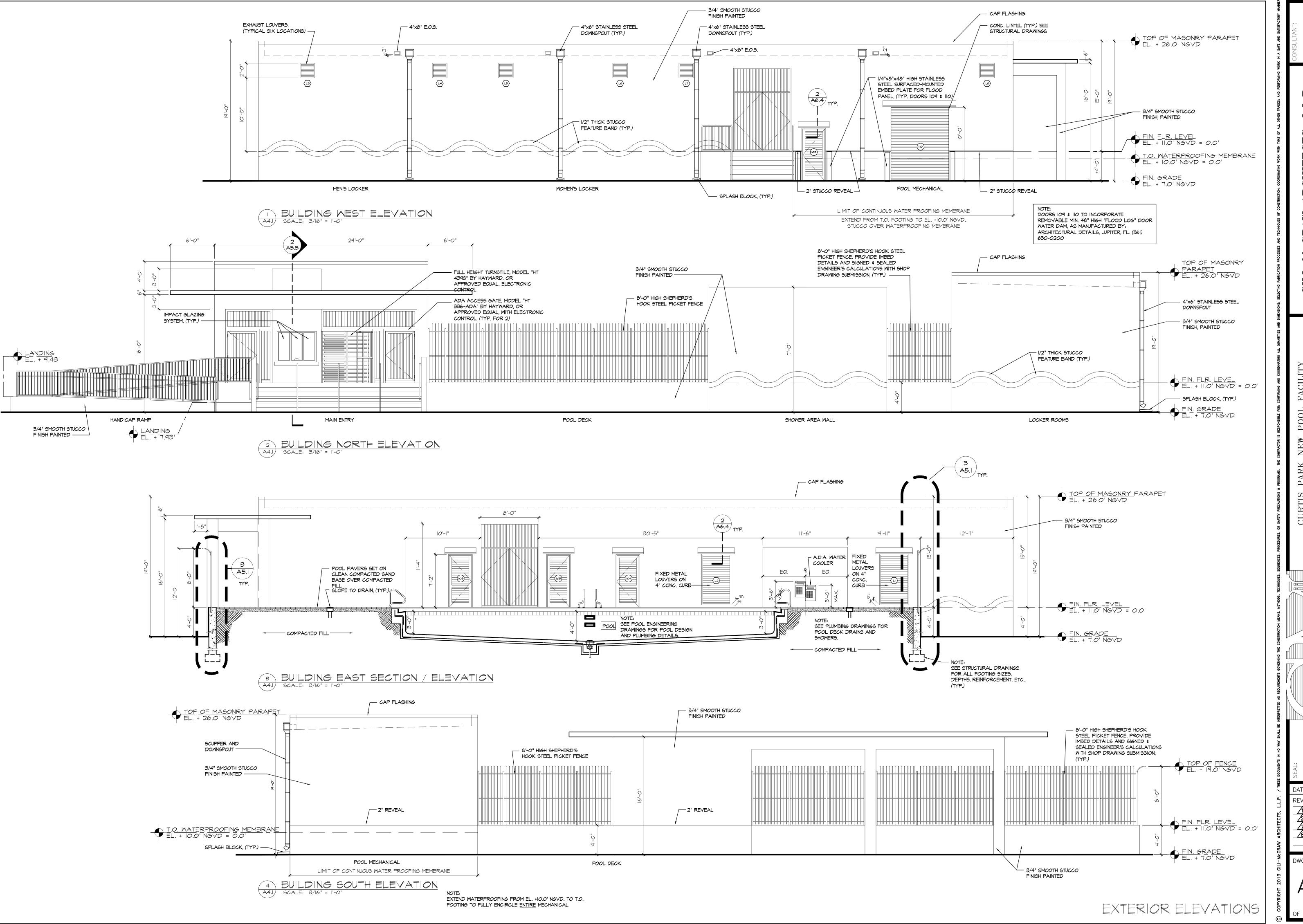
5 ROOFING EDGE DETAIL AT NON PARAPET CONDITION A3.6 SCALE: N.T.S.

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POOL

DATE: 10.01.2013 REVISIONS 11.25.2015 9 07.28.2016

DWG. No.



GILI-McGRAW ARCHITECTS, L.L.P.
5801 SOUTHWEST 99TH TERRACE; MIAMI, FLORIDA 3318
TEL. 305.663.1263 FAX. 305.256.2632

CURTIS PARK NEW POOL FACILITY

CITY OF MIAMI
1901 N.W. 24TH AVENUE

D AS REQUIREMENTS GOVERNING THE CONSTRUCTION MEANS, METHODS, TECHNIC

ARY McGRAW, AIA 8072

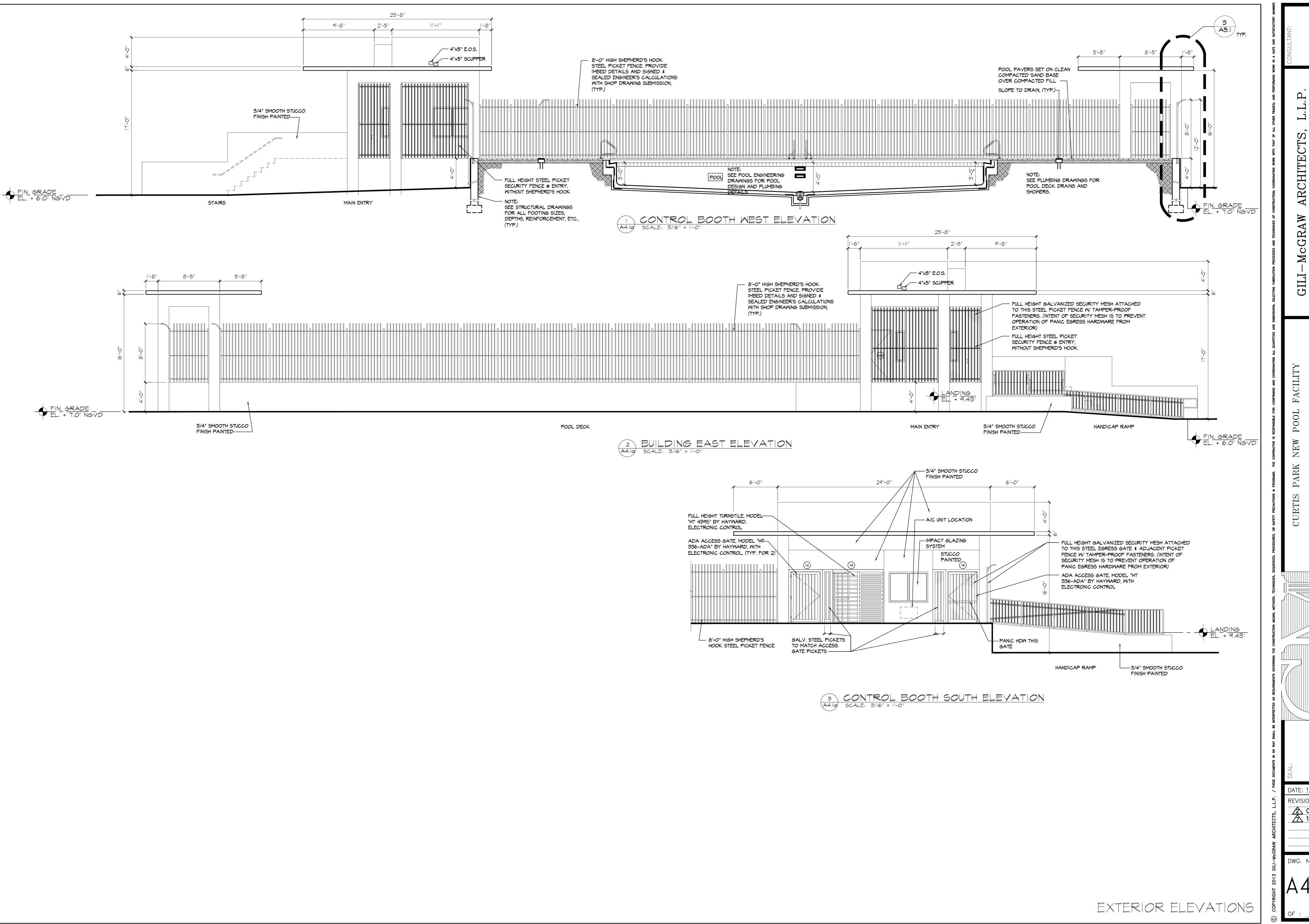
DATE: 10.01.2013

REVISIONS

1 03.13.2014
2 06.16.2014
11.25.2015
8 02.04.2016

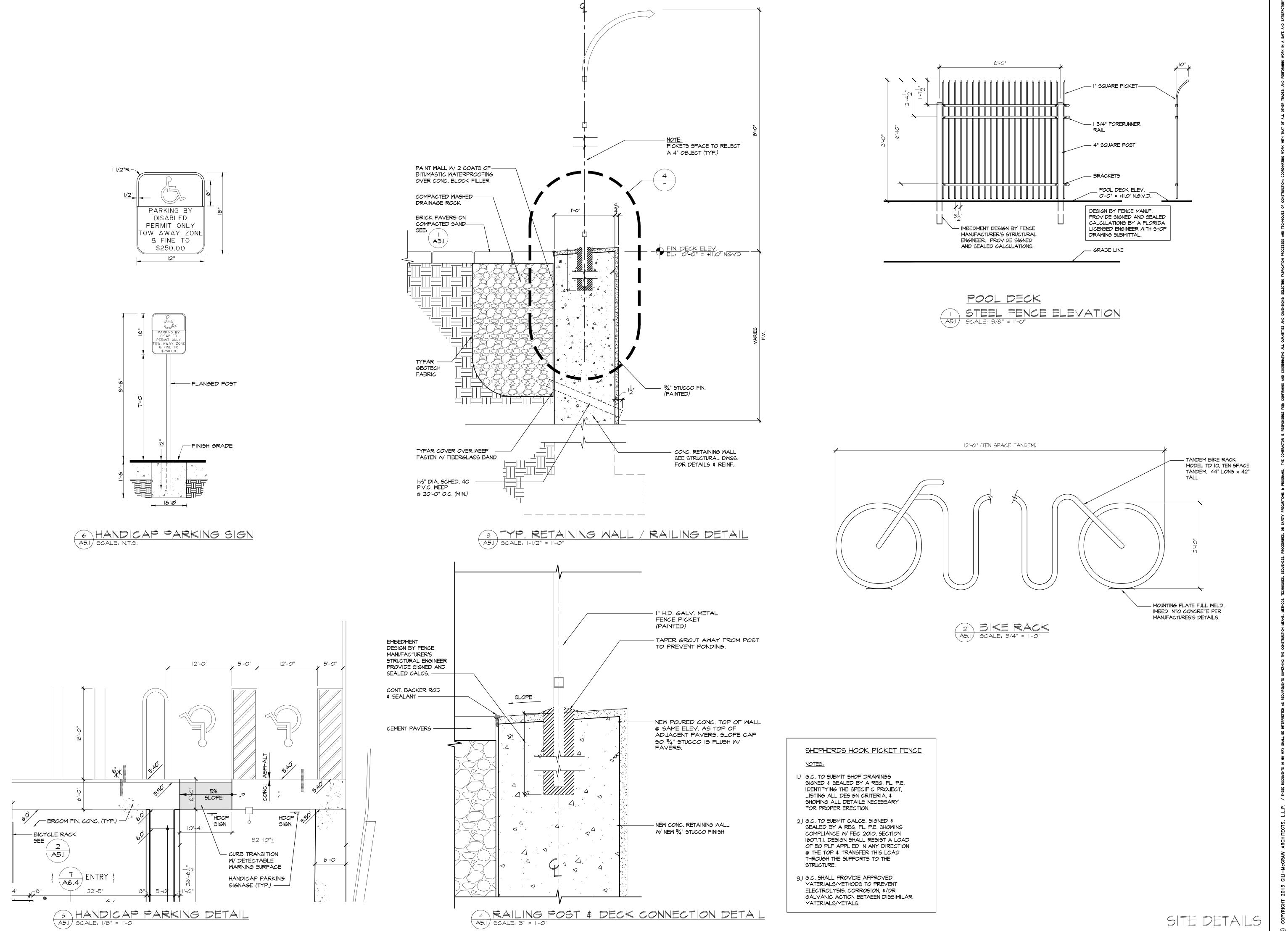
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DATE: <u>10.01.2013</u> REVISIONS <u>2</u> 06.16.2014 <u>7</u> 11.25.2015



DATE: <u>10.01.2013</u> REVISIONS <u>/\frac{1}{25.2015}</u>

McGRAW

POOL

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4.) ALL H.M. DOORS & FRAMES TO BE HOT-DIPPED GALVANIZED & FINISH W/

5.) OPENING DEVICES ON ALL DOORS SHALL BE MOUNTED @ 38" A.F.F.

6.) CONTRACTOR SHALL VERIFY ALL MASONRY AND ROUGH OPENINGS W/ CURRENT MIAMI-DADE COUNTY N.O.A. #'S PRIOR TO FABRICATION.

DOOR HARDWARE NOTE:

(HANDICAPPED) HANDLES, PULLS, LATCHES, LOCKSETS, AND OTHER OPERATING MECHANISMS ON ENTRANCE DOORS, RESTROOM AND TOILET ROOM DOORS, AND OTHER DOORS WHICH ARE PART OF AN ACCESSIBLE ROUTE, SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND WHICH DOES NOT REQUIRE A TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCESSIBLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. SEE GENERAL DOOR NOTES FOR TYPICAL MOUNTING HEIGHTS.

HEADING #1 RESTROOM EXTERIOR

 $3'-0" \times 7'-0" \times 1 3/4" \times HMD TYPE A LOUVER <math>\times$ HMF

HEADING #2 SERVICE DOOR EXTERIOR

 $3'-0" \times 7'-0" \times 1 \ 3/4" \times HMD TYPE A \times HMF \times 45 MIN$

NOTE: MIAMI-DADE COUNTY HURRICANE APPROVAL REQUIRED FOR ALL EXTERIOR DOORS.

SIGNAGE SCHEDULE

QUANTITY	Signage Copy	COPY COLOR / BACKGROUND COLOR	REMARKS
	~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····
3	FIRE EXTINGUISHER (INSIDE)	RED / WHITE	
-	UNISEX	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
	MOMEN	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
ı	MEN	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
ı	JANITOR	BLACK / WHITE	
2	STORAGE	BLACK / WHITE	7
2	POOL MECHANICAL ROOM	BLACK / WHITE	
<b>\</b>	ELECTRICAL ROOM	BLACK / WHITE	
	CUSTODIAL ROOM	BLACK / WHITE	

1/8" THICK, MATTE FINISH

EDGE ERS: SQUARE BORDER:

I" HIGH, RAISED 1/32"

MOUNTING:

HOLES & ONE-WAY SCREWS/ PLASTIC SHIELDS. USE SCREWS, NOT TAPE,

3.) MOUNT ALL SIGNS @ 5'-0" A.F.F. TO THE CENTERLINE OF THE SIGN ON THE LATCH SIDE OF THE DOOR.

I.) ALL ROOM NUMBERS ARE SUBJECT TO CHANGE PENDING REVIEW AND

SHALL BE PROVIDED ON ALL ROOM

APPROVAL BY THE CLIENT.

2.) BRAILLE & ROOM NUMBERS

IDENTIFICATION SIGNS.

where there is no wall space to THE LATCH SIDE OF THE DOOR, INCLUDING @ DOUBLE-LEAF DOORS SIGNS SHALL BE PLACED ON THE

DOOR FRAME ASSEMBLIES AND HARDWARE.

DOOR HARDWARE SHALL MATCH APPROVED DOOR NOA.

3.) APPLICABLE DOORS SHALL BE UNDERCUT 3/2".

SHOP COAT OF RUST-INHIBITIVE PRIMER.

UNLESS NOTED OTHERWISE.

### DOOR HARDWARE

OPENING DESCRIPTION:

6 HINGE 2 PASSAGE LATCH I DEADLOCK I CLOSER I CLOSER 2 SOUND SEAL	BBII68 4-1/2 × 4-1/2 SP NRP AIOS RHO 10-025 B66IP 10-055 (BLACK TO INT. SIDE 4111 EDA AVE TBMS (LH) 4111 EDA AVB TBMS (RH) 319 CN 1 × 36" 2 × 84"	USP 626 626 AL AL	HA SC LC LC PE
2 SOUND SEAL 2 WEATHERSTRIP 2 THRESHOLD	319 CN   x 36" 2 x 84" 303 AV   x 36" 2 x 84" 2005 AV 36" FHSL25		PE

OPENING DESCRIPTION:

3	HINGE	BB1168 4-1/2 × 4-1/2 SP NRP	USP	H
-	STOREROOM	8 (05) ND96PD RH0 10-025	626	S
	DEADLOCK	B663P 10-055	626	
-	CLOSER	4111 EDA AVE TBMS (RH)	AL	L
-	KICK PLATE	10" x 34.5", US32D, 16 GA.	US32D	
-	MEATHERSTRIP	608 GREY	RO	
-	THRESHOLD	2005 AV 36" FHSL25	f	9E
-	PEEPHOLE	1755 x 26D HAGER		

QUANTITY	Signage Copy	COPY COLOR / BACKGROUND COLOR	REMARKS
	~~~~~~~~~~~	***************************************	·····
3	FIRE EXTINGUISHER (INSIDE)	RED / WHITE	
-	UNISEX	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
	MOMEN	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
I	MEN	BLACK / WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
I	JANITOR	BLACK / WHITE	
2	STORAGE	BLACK / WHITE	'
2	POOL MECHANICAL ROOM	BLACK / WHITE	
{	ELECTRICAL ROOM	BLACK / WHITE	
{	CUSTODIAL ROOM	BLACK / WHITE	

LEGEND:

MATERIAL:

BEVEL

LETTER STYLE: HELVETICA MEDIUM;

BRAILLE: GRADE 2

VINYL TAPE (UNATTACHED)/

@ ALL EXTERIOR SIGNS.

NEAREST ADJACENT WALL.

FINISH SCHEDULE LEGEND

FLOORS: 2-PART EPOXY FLR. FIN. DURA-FLEX OR APPROVED

CONC EXPOSED CONC. (BROOM FIN.)

BASES:

CERAMIC TILE COVE BASE

DOOR SIZE

THKN.

I-³/4"

1-3/4"

1-3/4"

1-3/4"

1-3/4"

1-3/4"

1-³/4"

1-3/4"

1-3/4"

3/4" SLATS

34" SLATS

HEIGHT

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

10'-0"

12'-0"

- HOLLOW

(PAINTED)

FINISH SCHEDULE

NORTH

CBB

CT

CT

CT

CT

SC

SC

SC

SC

SC

METAL

BASE

MATERIAL

CT

DOOR

1ATERIA

STEEL

24 GA. STEEL NONE REQ'D.

24 GA. STEEL NONE REQ'D.

FIRE

RATING

NONE REQ'D

SEE DOOR SCHEDULE

OVERHEAD COILING SCALE: 1/4" = 1'-0"

SOUTH

CT

CT

CT

SC

SC

MALLS

EAST

CBB

CT

CT

SC

SC

SC

SC

DOOR

TYPE

В

C

EXTERIOR DOOR THRESHOLD DETAIL

FULL-HEIGHT

- CENTER RAIL

- HOLLOW METAL

(SHOP PRIMED)

ROOM NAME

A SCALE: 1/4" = 1'-0"

DOOR TYPES SCALE: 1/4" = 1'-0"

CONTROL BOOTH

CUSTODIAL CLOSET

MEN'S LOCKER ROOM

WOMEN'S LOCKER ROOM

UNISEX

ELECTRICAL ROOM

POOL STORAGE

GENERAL STORAGE

CORRIDOR

POOL MECHANICAL ROOM

ROOM

100

101

102

103

104

105

106

107

108

LOUVERS

MIDTH

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

3'-0"

8'-0"

26'-0"

SEE SCHEDULE

FOR DOOR

SILICONE

SEAL INSERT

- CONC. SLAB

PERFORATED SECURITY SCREEN

FLOOR

MATERIAL

ᄩ

CONC.

CONC.

CONC.

CONC.

CONC. 49\

CONC. 3/9

OVER DOOR LOUVERS, SECURE

CONNECTORS, (TYPICAL ALL

WITH TAPER-PROOF

LOUVER DOORS).

MARK

100

101

102

103

104

104A

105

106

107

108

109

110

ALUM. METAL -THRESHOLD

(PANIC TYPE)

SET IN MASTIC

ROOM NAME

CONTROL BOOTH

CUSTODIAL CLOSET

MEN'S LOCKER ROOM

MOMEN'S LOCKER ROOM

UNISEX

UNISEX

ELECTRICAL ROOM

POOL STORAGE

GENERAL STORAGE

POOL MECHANICAL ROOM

POOL MECHANICAL ROOM

POOL MECHANICAL ROOM

ENTRY BOOTH

CEILINGS:

DOOR SCHEDULE

JAMB

1/A6.3

2/A6.3

1/A6.3

1/A6.3

1/A6.3

2/A6.3

1/A6.3

1/A6.3

1/A6.3

1/A6.3

1/A6.3

3/A6.3

3/A6.3

HEAD

SIMILAR

— 24 GA. H.D. GALV.

STEEL SHEET HOOD

- 24 GA. H.D. GALV. STANDARD FLAT

CURTAIN SLATS

FRAME

MATERIAL

STEEL

STEEL ANGLES

STEEL ANGLES

FRAME

TYPE

THRESHOLD

MATERIAL

ALUMN.

DETAIL

1/A6.1

1/A6.1

1/A6.1

1/A6.1

1/A6.1

1/A6.1

1/**A6**.1

1/A6.1

1/A6.1

1/A6.1

1/A6.1

U.N.O.

FRAME TYPES

SCALE: 1/4" = 1'-0"

CEILING

MATERIAL

CBB

PC

PC

PC

PC

PC

PC

PC

PC

MEST

CBB

CT

CT

CT

CT

SC

SC

SC

SC

SC

1/2" CEMENTITIOUS BACKERBOARD (PAINTED)

A SEE SCHED.

B) SEE SCHED.

CEILING

HEIGHT

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|2'-| |/2"

|7'-| |/2"

METAL

SET

2

2

2

2

2

REMARKS

IMPACT RESISTANT STEEL HOT-DIPPED GALV

IMPACT RESISTANT STEEL HOT-DIPPED GALV.

IMPACT RESISTANT STEEL HOT-DIPPED GALY.

IMPACT RESISTANT STEEL HOT-DIPPED GALV.

IMPACT RESISTANT STEEL HOT-DIPPED GALV.

IMPACT RESISTANT STEEL HOT-DIPPED GALV ELECTRIC MOTOR DRIVE

JAMB TYPES/DEPTHS

GENERAL WALL & PARTITION NOTES:

AS REQUIRED, (TYPICAL).

DECK ON ALL WALLS.

PANELS W/ M.E.P. DRAWINGS.

I.) SEAL ALL VOIDS AROUND DUCTS AND/OR PIPE PENETRATIONS

3.) IN LOCKER ROOMS 102, 103 AND UNISEX ROOM 104, CERAMIC

WALL TILE IS TO BE FULL HEIGHT TO UNDERSIDE OF ROOF

2.) G.C. TO COORDINATE LOCATION OF ANY CEILING ACCESS

MANUAL CHAIN DRIVE

PAINTED EXPOSED CEILING

ON METAL FRAMING

MALLS:

4×4 CERAMIC TILE ON ½" CEMENTITIOUS BACKERBOARD (W/ I" X I" MOSAIC TILE CONTRAST BAND)

1/2" CEMENTITIOUS BACKERBOARD (PAINTED) ON METAL FURRING W/ R-5 RIGID INSULATION

PAINT ON 3" STUCCO ON CONCRETE

MP PLASTIC -

NO RAISED BORDER

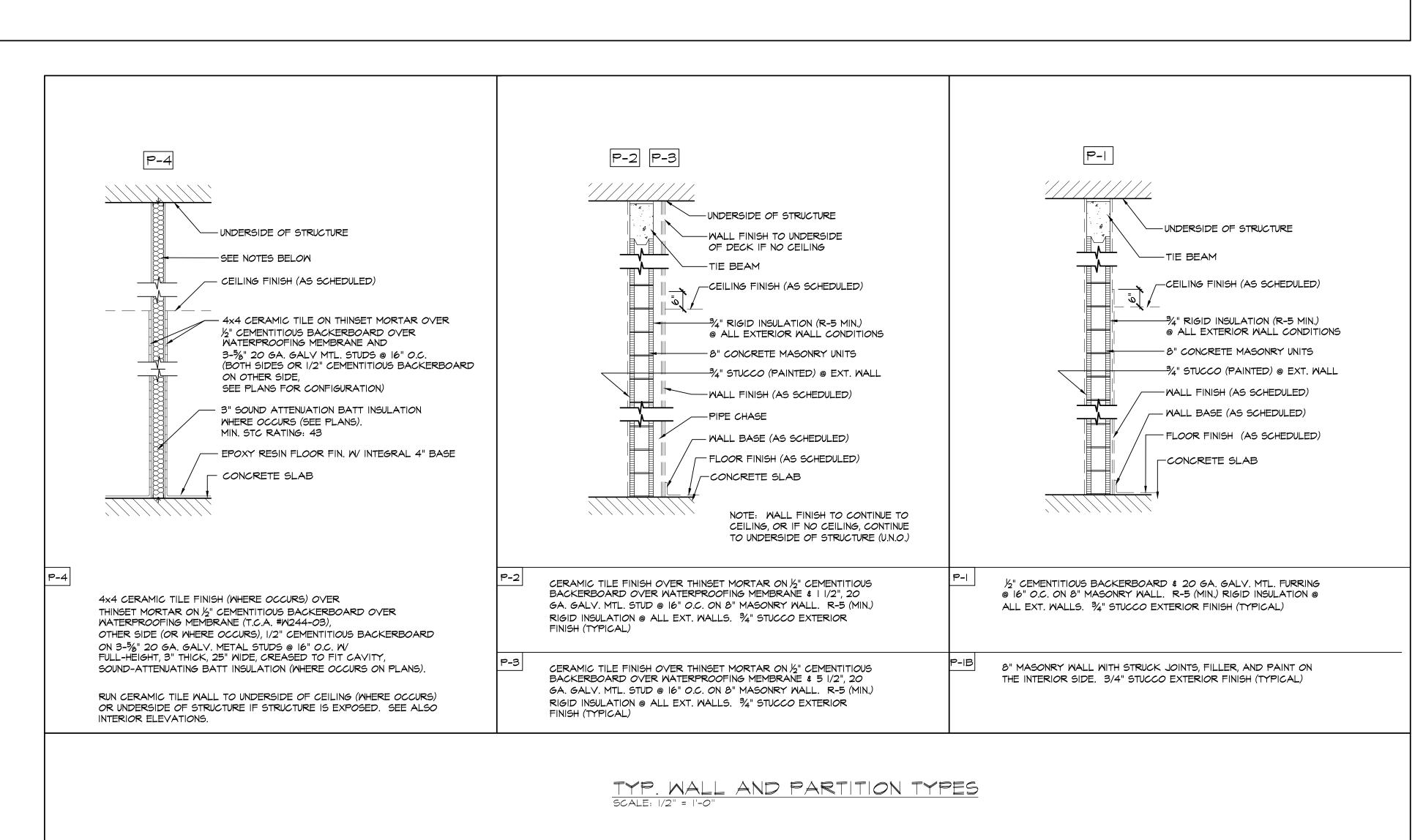
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A6.

DATE: 10.01.2013

11.25.2015 9 07.28.2016

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ARCHITECTS, GILI-McGRAW ARK NEW POOL FACILITY ITY OF 1901 N.W. 24T MIAMI, FLORII DATE: <u>10.01.2013</u>

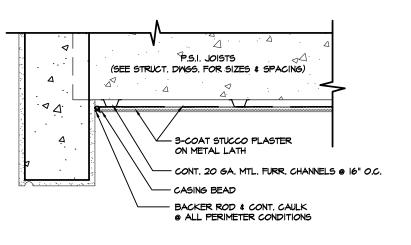
REVISIONS <u> 11.25.2015</u>

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I.) ALL VENT STACKS TO HAVE VANDAL-PROOF COVERS

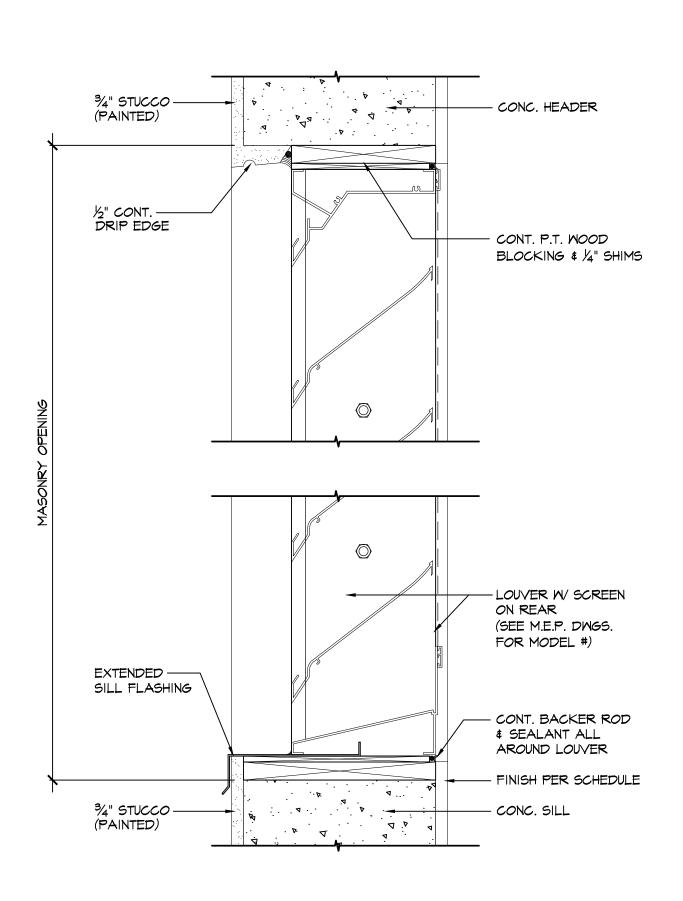
(TYPICAL).

8 TYP. VENT STACK DETAIL
A6.3 SCALE: I" = I'-O"

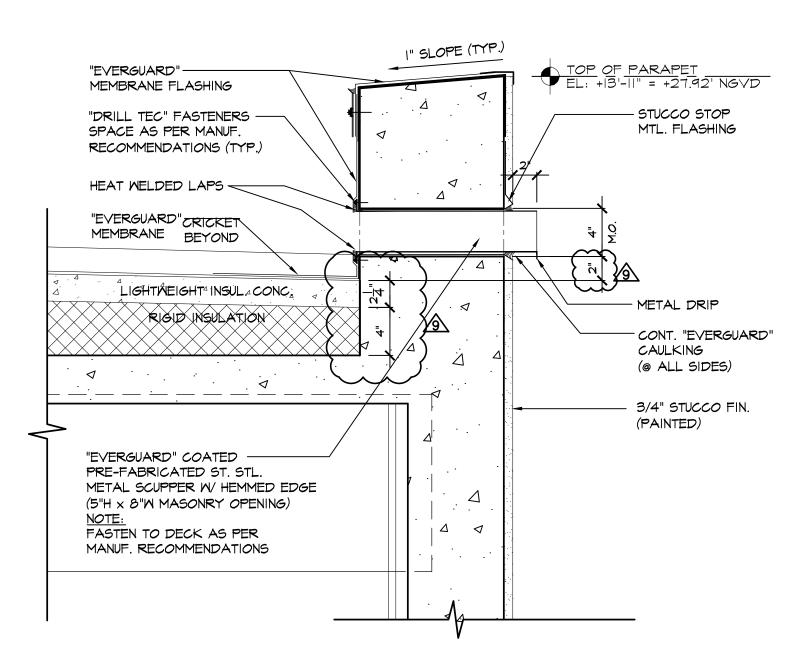


9 STUCCO ON METAL LATH DETAIL
A6.3 SCALE: I" = I'-O"

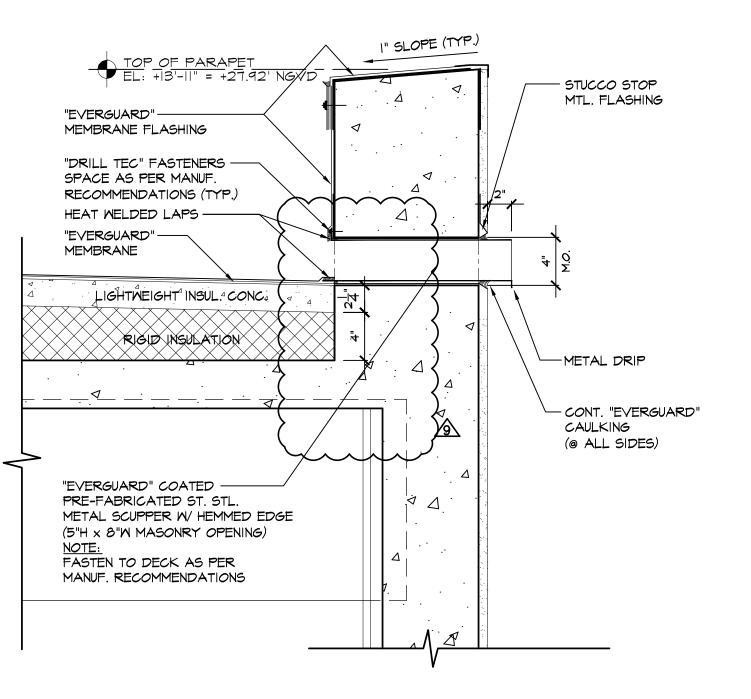
\$ SEALANT



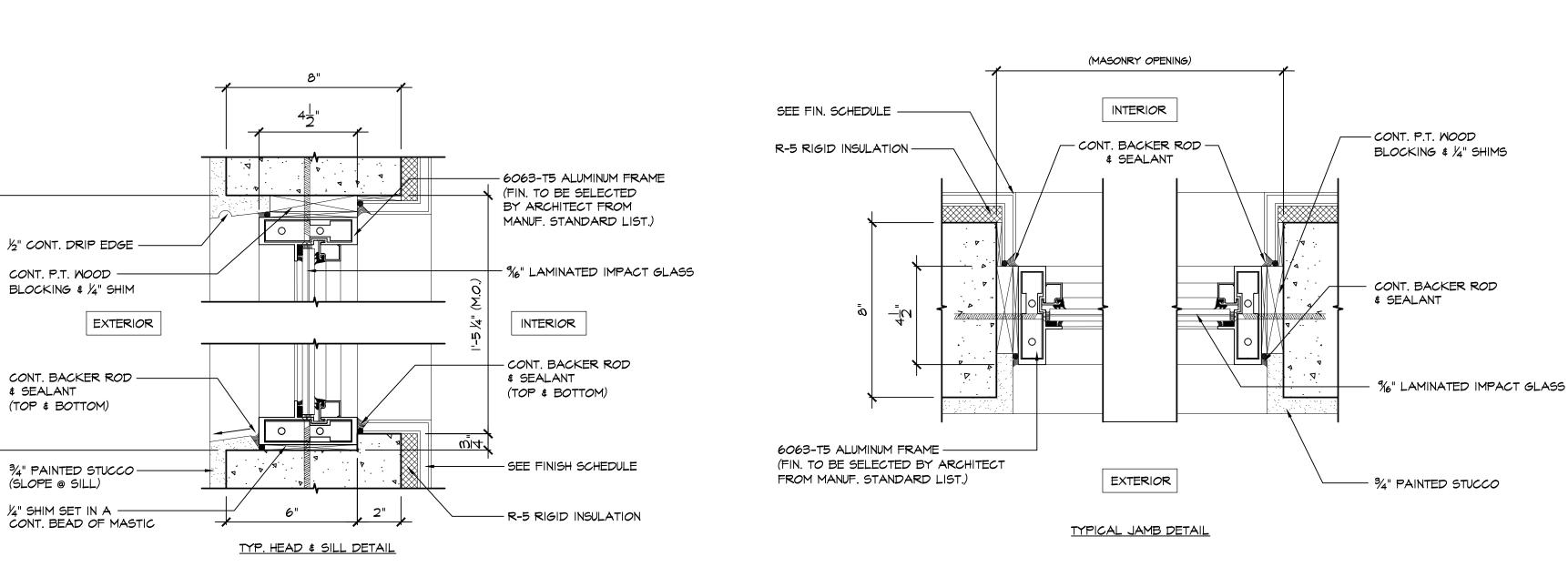
7 TYP. LOUVER HEAD & SILL DETAIL
A6.3 SCALE: 3" = 1'-0"

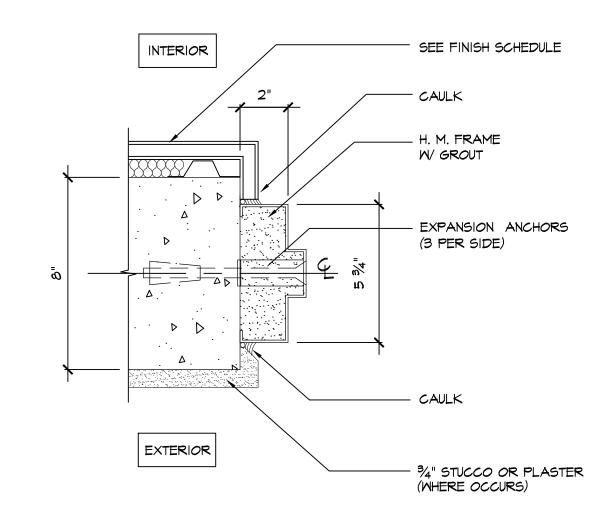


4 TYP. EMERGENCY OVERFLOW SCUPPER DETAIL
A6.3 SCALE: I-I/2" = I'-O"

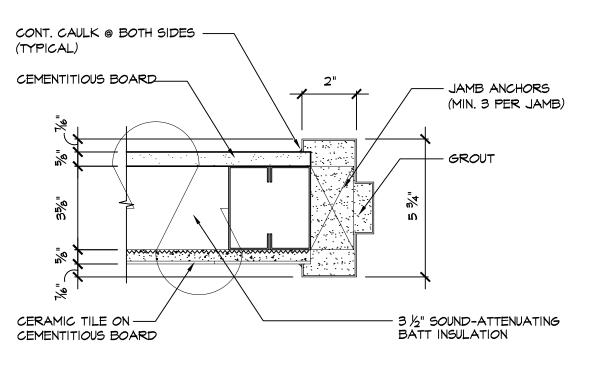


5 TYP. SCUPPER DETAIL
A6.3 SCALE: I-I/2" = I'-0"

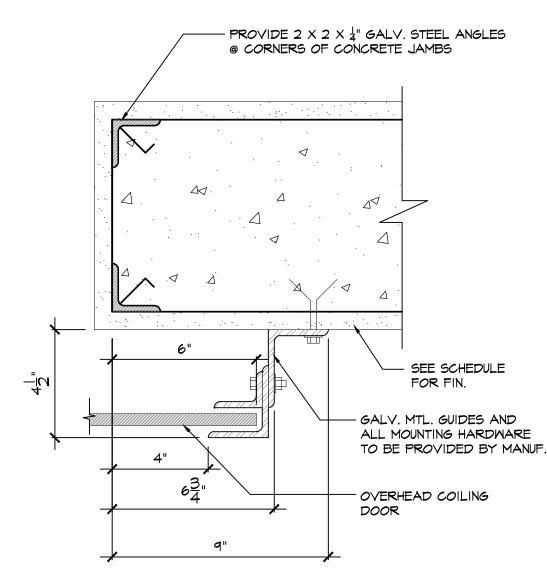




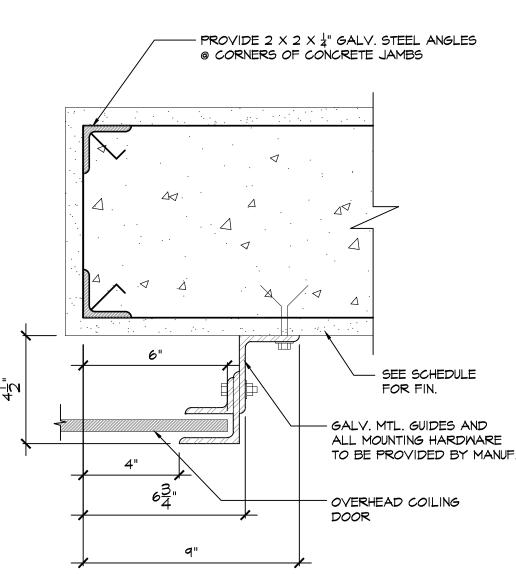
JAMB DETAIL @ CONC. WALL 1 90° SMING (HEAD SIMILAR) A6.3 SCALE: 3" = 1'-0"



JAMB DETAIL @ STUD WALL W/ 2 CER. TILE INTERIOR (HEAD & JAMB)
A6.3 SCALE: 3" = 1'-0"



3 COILING DOOR JAMB DETAIL
A6.3 SCALE: 3" = 1'-0"



6 TYP. FIXED ALUMN. WINDOW HEAD, SILL, AND JAMB DETAILS
A6.3 SCALE: 3" = 1'-0"

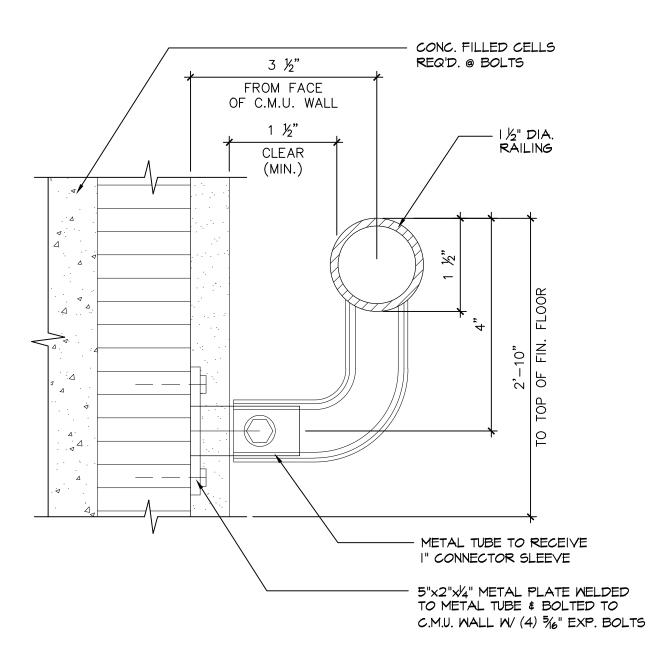
CHITECTS GRAW

POOL MI NEW \circ

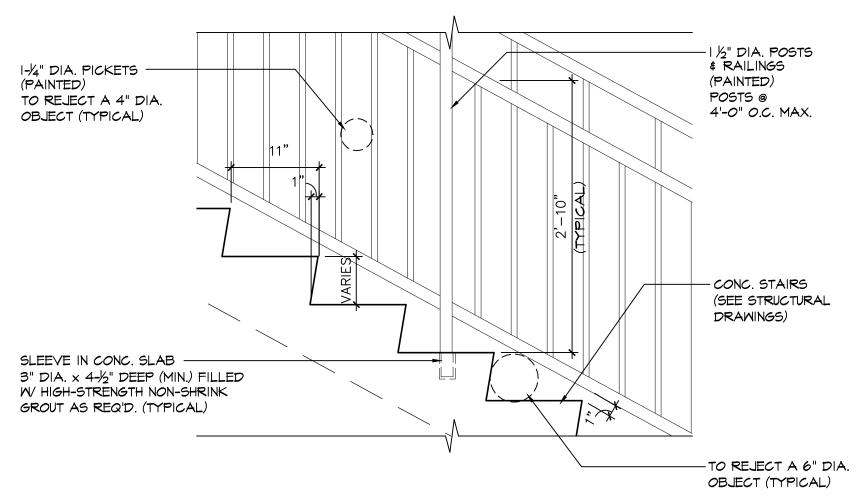
DATE: <u>10.01.2013</u> REVISIONS / 11.25.2015 / 07.28.2016

DWG. No.

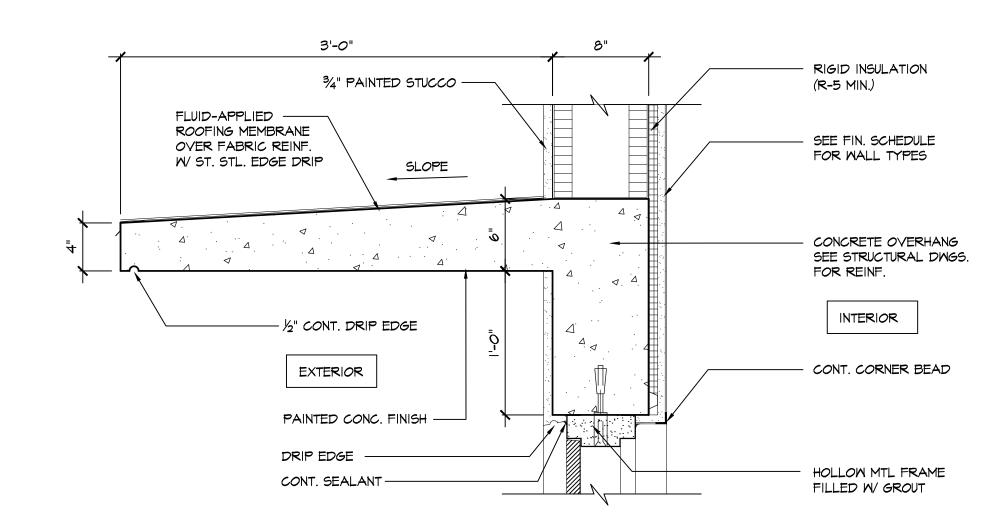
A6.3



6 RAILING @ MASONRY CONNECTION DETAIL
A6.4 SCALE: FULL

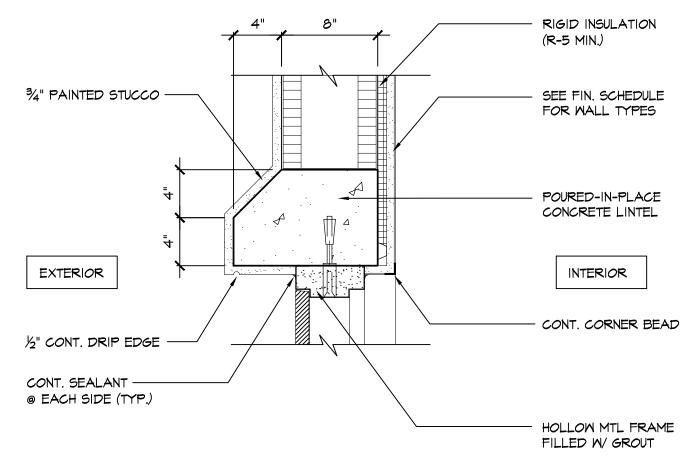


7 RAILING @ STAIRS DETAIL
A6.4 SCALE: I" = I'-O"

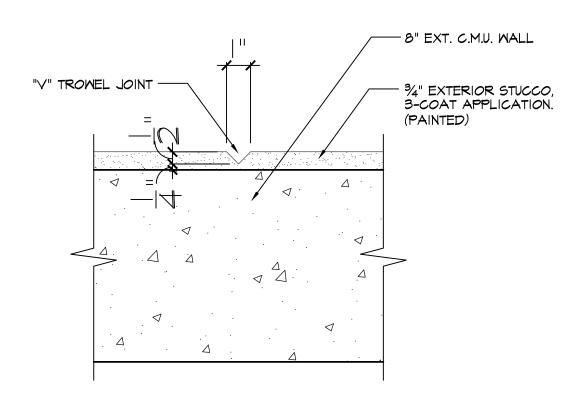


TYP. CONCRETE OVERHANG DETAIL

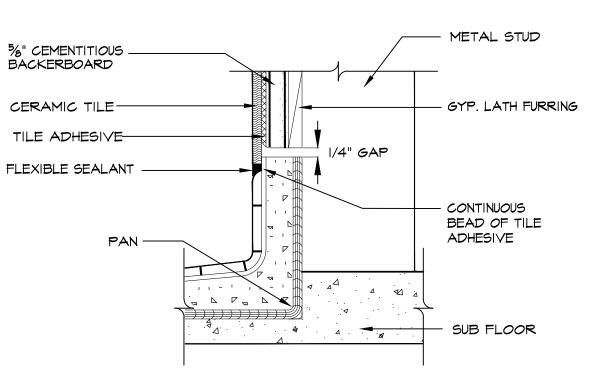
A6.4 SCALE: 1-1/2" = 1'-0"



2 PRECAST LINTEL DOOR HEAD DETAIL
A6.4 SCALE: 1-1/2" = 1'-0"



3 TYP. STUCCO CONTROL JOINT DETAIL
A6.4 SCALE: 3" = 1'-0"



4 TYP. SHOWER PAN DETAIL
A6.4 SCALE: 3" = 1'-0"

McGRAW

GILL

AMI

MIL

OF W. 241

POOL

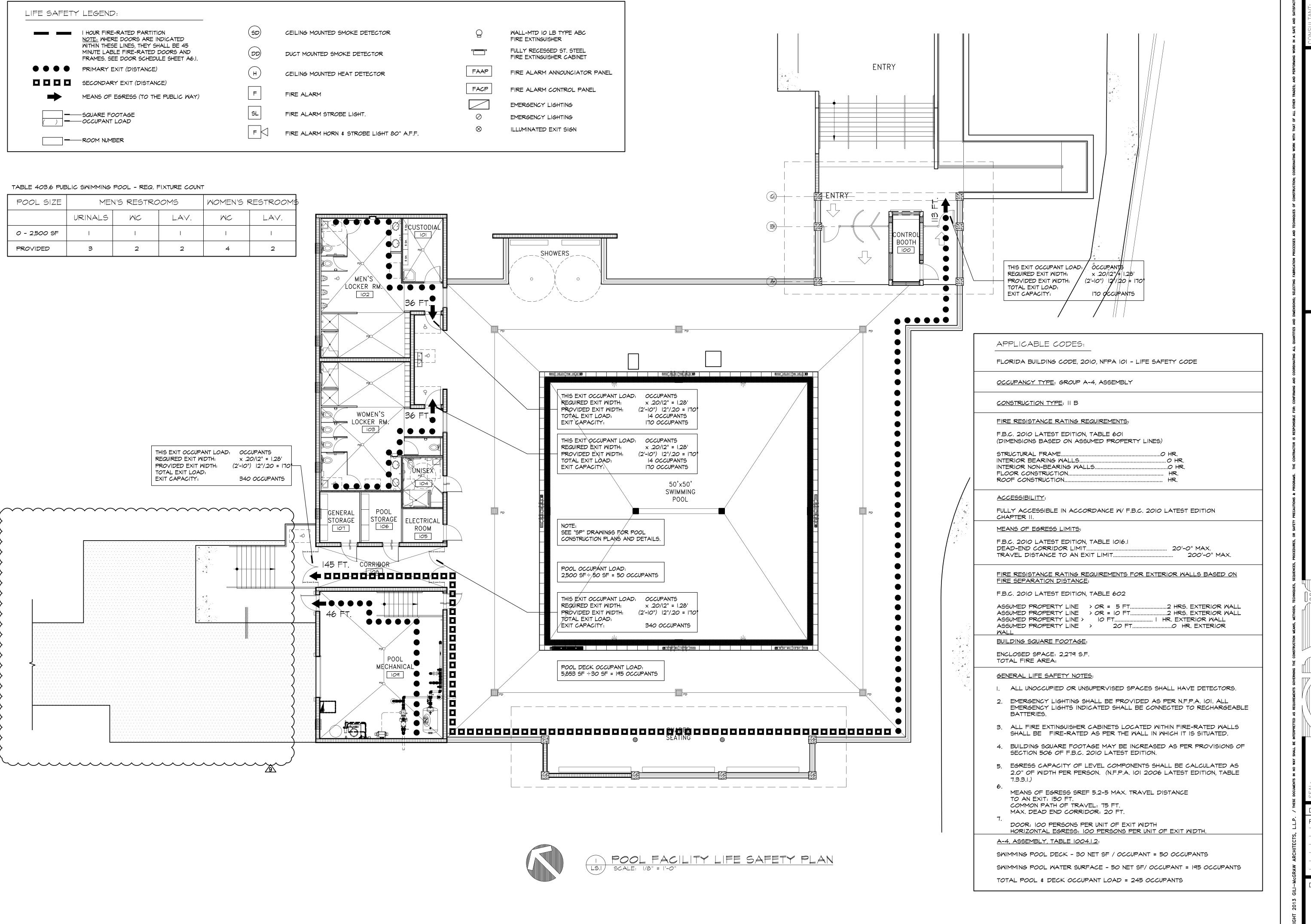
NEW

DATE: 10.01.2013

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DWG. No.

A6.4



LIFE SAFETY PLAN

SOUTHWEST 99TH TERRACE; MIAMI, FLORIDA 3
TEL. 305.663.1263
FAX. 305.256.2632

JRTIS PARK NEW POOL FACILITY

CITY OF MIAMI
1901 N.W. 24TH AVENUE

J. GARY McGRAW, AIA 8072

DATE: 10.01.2013
REVISIONS
07.28.2016

DWG. No.

LS.

- G E N E R A L :

 1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING—IN MEASURE— MENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, CONDITIONS AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS
 SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND
 BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- PROTECTION:

 A. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE AND ALL LOCAL, STATE AND FEDERAL LAWS. THE ENGINEER AND HIS EMPLOYEES ARE NOT RESPONSIBLE FOR SAFETY PROCEDURES ON THIS PROJECT. THIS IS THE CONTRACTOR'S
 - OVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR EXECUTION OF THE WORK. REMOVE WHEN THE WORK
 - COMPLETED. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR
- TIMES PROVIDE PROTECTION AGAINST WEATHER (RAIN, STORMS OR HEAT) SO AS TO MAINTAIN ALL WORK, RIALS, APPARATUS AND FIXTURES FREE FROM DAMAGE.
- CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT UCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC STRUCTURES, SIDEWALKS AND TO STREPROPERTY OR TO ANY PUBLIC UTILITIES
- AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ON PART OF CONTRACTOR, ANY OF HIS SUBCONTRACTORS AND/OR SUBCONTRACTORS, MATERIALS AND EQUIPMENT SUPPLIERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN PERFORMANCE OF THIS CONTRACT; AND, IN CASE ANY ACTION IS BROUGHT THEREFORE AGAINST OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, AND UPON HIS FAILURE TO DO SO ON PROPER NOTICE, OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS RESERVE THE RIGHT TO DEFEND SUCH ACTION AND CHARGE ALL COSTS THEREOF TO CONTRACTOR.
- IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICA—TIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS
- OR OMISSIONS AND THE COST OF RECTIFYING THE SAME. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE STEPPED FOOTINGS, DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS WARL BE TRANSMITTED TO THE A/E BEFORE PROCEEDING WITH THE WORK.
- SUBMIT ONE SEPIA AND ONE PRINT OF SHOP DRAWINGS FOR A/E REVIEW BEFORE STARTING FABRICATION.
- NO SHOP DRAWINGS SHALL BE SUBMITTED FOR A/E REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
- THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD
- 11. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE ADJOINS AN IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE LD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND NSTALLATION. REPORT ANY DISCREPANCIES EXCEEDING 3% BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- 12. WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR, THAT SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION. THIS PROCEDURE IS MANDATORY FOR CURTAIN WALL SYSTEMS, ARCHITECTURAL PRECAST SYSTEMS AND ALL MECHANICAL AND ELECTRICÁL OPENINGS.
- 13. OWNER, ARCHITECT, AND CONTRACTOR NOTE. REVIEW OF SHOP DRAWINGS AND FIELD INSPECTIONS OF THE STRUCTURE BY THIS OFFICE ARE REQUIRED IF THIS OFFICE IS TO BE HELD RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE COMPLETED BUILDING.
- ∕NSTRUCTURAL DESIGN CRITERIA: THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 LATEST EDITION AND OTHER CODES REFERENCED
- BASIC WIND VELOCITY 175 MPH AS PER ASCE 7-10 IN COMPLIANCE WITH FLORIDA BUILDING CODE 2010 LATEST EDITION. EXPOSURE: C
- INTERNAL PRESSURE = 0.18
- 3. LIVE LOADS: SEE PLANS FOR LOADING INFORMATION.

EARTHWORK:

- 1. CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION SPACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES AND OTHER IMPROVEMENTS IN A SAFE
- REINFORCING STEEL: (SHOP DRAWING REQUIRED) TO BE NEW BILLET STEEL CONFORMING TO A.S.T.M. A615
 GRADE 60 SPECIFICATIONS, FABRICATED IN ACCORDANCE WITH MANUAL
 OF STANDARD PRACTICE OF THE C.R.S.I. AND PLACED IN ACCORDANCE WITH A.C.I.315 AND A.C.I. MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES
- COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICALS ABOVE. LAP 48 BAR DIAMETER OR MINIMUM OF 18", U.O.N. PROVIDE RIGID TEMPLETS FOR DOWEL LOCATION. PROVIDE STANDARD HOWES FOR ALL VERTICAL REINFORCEMENT AT NON—CON— TINUOUS COLUMNS (U.O.N.).
- ALL DOWELS FOR COLUMNS AND WALLS TO BE SECURED IN POSITION PRIOR TO CONCRETING. DRILLING OR PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.
- CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS: FOOTINGS 3", COLUMNS 1-3/4" TO TIES, BEAMS 1-3/4" TO STIRRUPS, INTERIOR SLABS 3/4", EXPOSED SLABS 1-3/4", SLABS ON GRADE 1-1/2" MEASURED FROM TOP OF SLAB.
- SLAB AND BEAM REINFORCEMENT: PLACED IN ACCORDANCE WITH REINFORCING DIAGRAMS, LAPPED 36 BAR DIAMETER OR MINIMUM 18". BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID—SPAN. ALL TOP BARS HOOKED AT NON—CONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE OR 180 DEGREE
- HOOKS'AS REQUIRED (U.O.N.) ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 30 MINIMUM EACH WAY AT CORNERS OF WALL FOOTINGS AND ALL BEAMS TO MATCH ALL HORIZONTAL BARS.

FOUNDATIONS: SPREAD FOOTINGS

- THE FOLLOWING ARE RECOMMENDATIONS FOR OVERALL SITE PREPARATION AND FOUNDATION SUPPORT BASED ON THE GEOTECHNICAL REPORT BY MACTEC ENGINEERING AND CONSULTING, INC. FILE #6785-10-2054 DATED JANUARY 26, 2010. THE FOUNDATIONS WERE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2500 P.S.F.
- 1. THE "FOOTPRINT" OF THE PROPOSED BUILDING, PLUS A MINIMUM MARGIN OF 10'-0" SHOULD BE STRIPPED OF ALL SURFACE VEGETATION, DEBRIS. ORGANIC SOIL OR OTHER DELETERIOUS MATERIALS, AS ENCOUNTERED.
- 2. THE ACTUAL DEPTHS OF STRIPPING AND GRUBBING MUST BE DETERMINED BY VISUAL OBSERVATION AND JUDGMENT DURING THE EARTHWORK PREPARATION. SEE NOTE 8 BELOW.
- 3. COMPACT ALL CONSTRUCTION AREAS. AS RECOMMENDED IN THE GEOTECHNICAL REPORT. SEE NOTE 8 BELOW. 4. BACKFILL BUILDING AREAS TO REQUIRED ELEVATION IF NEEDED USING CLEAN GRANULAR MATERIAL PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN
- THICKNESS AND COMPACT AS INDICATED IN THE GEOTECHNICAL REPORT 5. CARE SHOULD BE TAKEN NOT TO USE VIBRATION IN CASE OF EXISTING STRUCTURES IN THE VINICITY OF THE CONSTRUCTION AREA. IF VIBRATION CANNOT BE USED FOR COMPACTION, STATIC COMPACTION MAY BE APPLIED. HOWEVER, IN THIS CASE, THE COMPACTED LAYER SHOULD NOT
- EXCEED 6 INCHES IN THICKNESS. 6. ALL CONSTRUCTION FILL MATERIAL SHALL BE CLEAN GRANULAR SOIL, FREE OFORGANICS OR OTHER DELETERIOUS MATERIAL, AND SHALL CONTAIN NO MORE THAN FIVE PERCENT FINES PASSING A U.S. STANDARD NO. 200 SIEVE. NO PARTICLE SIZE SHALL EXCEED 3 INCHES.
- 7. IN THE EVENT OF EXISTING STRUCTURES, EXISTING FOOTINGS OR PROPOSED DRAINAGE LINES, PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PROTECT ALL FOOTINGS FROM UNDERMINING AND EXPOSURE. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED OF THESE CONDITIONS TO EVALUATE THE APPLICABILITY OF HIS RECOMMENDATIONS.
- 8. ALL GEOTECHNICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER TO VERIFY COMPLIANCE WITH HIS RECOMMENDATIONS AND THE FLORIDA BUILDING CODE (F.B.C.)
- 9. TOP OF WALL FOOTINGS TO BE AT SAME ELEVATION AS TOP OF COLUMN FOOTINGS. WALL FOOTING REINFORCEMENT TO RUN CONTINUOUS THROUGH COLUMN FOOTING. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO LOWER ONE.
- 10. ALL FOOTINGS TO BE MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE OR MINIMUM 8" BELOW FINISHED GRADE, WHICHEVER IS LOWER. (UNLESS OTHERWISE NOTED ON PLANS.) COORD. W/ ARCH. & MECH. DWGS.
- 11. CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER TO ESTABLISH WHETHER ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE ASSUMED SOIL PRESSURE AND TO PERFORM INDUSTRY STANDARD SOIL DENSITY TESTS. TO ENSURE COMFORMANCE WITH REQUIREMENT, REPORT RECOMMENDATIONS PRIOR TO INSTALLATION OF ANY FOOTING REINFORCING. SUBMIT SIGNED AND S L A B S O N G R A D E :
- ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM 4" THICK AND REINF WITH $6 \times 6 - W2.9 \times W2.9$ WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED.) SEE PLAN AND SECTION FOR ADDITIONAL REQUIREMENTS. ALL CONCRETE SLABS ON GRADE TO BE IN ACCORDANCE WITH THE LATEST
- 'GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (ACI 302.1R.) JOINTS SHALL BE PROVIDED IN ALL SLABS ON GRADE WHERE INDICATED ON PLANS. PROVIDE SAWCUT JOINTS IN ALL SIDEWALKS AT A MAXIMUM SPACING OF 5 FT. ON CENTER AND ISOLATION JOINTS AT 20'-0" MAXIMUM
- CONCRETE: CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
 - (A.C.I. 315).
 ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (ACI 301). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R).
 NO ADMIXTURES PERMITTED WITHOUT THE REVIEW OF ARCHITECT/EN-
- FOR ALL CONCRETE TO BE PLACED IN SLABS (INCLUDING SLABS ON GRADE), THE SLUMP SHALL NOT EXCEED 4"±1", NO WAIVERS OF
- THIS REQUIREMENT SHALL BE CONSIDERED. CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH ACHIEVED AT 28 DAYS OF $f'c=3000\ P.S.I.$
- TAKE ONE SET OF 5 CYLINDERS FOR EVERY FIFTY CUBIC YARDS OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY.
 FOLLOW ASTM STANDARDS FOR SAMPLING AND TESTING. TEST ONE
 CYLINDER AT 3 DAYS AND 7 DAYS AND 3 AT 28 DAYS. IF ONE OF THE
 TWO 28 DAYS TESTS FALLS BELOW SPECIFIED STRENGTH, TEST THE THIRD CYLINDER AT 56 DAYS. TAKE ONE SLUMP TEST (ASTM C143) FOR EACH SET OF TEST CYLINDERS CAST.
- NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
- CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL. CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347R SUBMIT SIGNED & SEALED SHOP DWGS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DWGS. ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION
- TEMPORARY LATERAL BRACINGS SHALL BE PROVIDED FOR ALL VERTICAL MEMBERS (COLUMNS, CONCRETE WALLS, BLOCK WALLS ETC.) AS REQUIRED TO SUPPORT ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- 10. IF CONCRETE IS PUMPED USE A MINIMUM 4-INCH PUMP
- 11. CONCRETE MIX DESIGNS SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH ACI 318. MIX DESIGNS SHALL BE SUBMITTED WITH THE BACK-UP DATA PER ACI 318 TO THE A/E FOR REVIEW PRIOR TO CONCRETE **PLACEMENT**
- 12. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN 5% ENTRAINED AIR ±1.5%.
- 13. THE CONTRACTOR SHALL INCLUDE IN HIS BID, THE COST OF THE FOLLOWING ADDITIONAL LABOR AND MATERIALS. THESE MATERIALS AND WORK SHALL BE USED FOR EXTRA WORK PERFORMED IN THE FIELD AT THE DIRECTION OF THE A/E. UNUSED PORTIONS SHALL BE CREDITED TO THE OWNER AT COMPLETION OF THE PROJECT. 1 TONS OF REINFORCING STEEL, INCLUDING FABRICATION, BENDING AND PLACING AND 10 CUBIC YARDS OF 4000PSI CONCRETE INCLUDING FORMING, PLACING AND FINISHING.
- 14. CURING CONCRETE ELEMENTS (SLABS, BEAMS, CONCRETE WALLS, ETC.) SHALL BE DONE USING A DISSIPATING CURING COMPOUND MEETING ASTM STD.(C 309 TYPE 1-D) WITH A FUGITIVE DYE. THE CURING COMPOUND SHALL BE APPLIED AS SOON AS CONCRETE FINISH IS COMPLETED. DAMAGED AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CURING COMPUNDS USED MUST BE COMPATIBLE WITH FINISHES TO BE APPLIED SUCH AS TILE, PAINT, STUCCO, ETC.

LINTELS: (SHOP DRAWINGS FOR REINFORCEMENT REQUIRED)

- THE CONTRACTOR SHALL PROVIDE INSITU LINTELS AT THE HEADS
 OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING 8 FEET IN
 WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. LINTEL MAY BE,
 INTEGRAL WITH THE TIE BEAM WHEN HEAD OF THE OPENING IS 16" OR LESS BELOW. CONTINUE TYPICAL BOTTOM BARS THROUGH AND ADD 2 #5
 BOTTOM BARS AT DROP. ADD 2 #3 STIRRUPS AT 6" O.C. EACH END
 AND BALANCE AT 12" AT DROP. MINIMUM BEARING FOR ALL LINTELS
- "EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT COLUMNS. LINTEL TO BE MINIMUM OF 8" DEEP 2 #4 TOP AND BOTTOM FOR SPANS LESS THAN 6 FEET, 12" DEEP WITH 2 #5 TOP AND BOTTOM AND 2 #3 STIRRUPS AT 6" O.C. EACH END, FOR SPANS GREATER THAN 6 FEET UP
- FOR SPANS GREATER THAN 8 FEET, SEE PLANS AND BEAM SCHEDULE FOR STRUCTURAL BEAMS.

MASONRY WALLS AND PARTITIONS:

- (SHOP DRAWINGS FOR REINFORCING REQUIRED) ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1-99 AND PROVISIONS OF THE FOR MASONRY STRUCTURES, ACT 530.1-99 AND PROVISIONS OF THE FLORIDA BUILDING CODE. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C-90-90 AND REINFORCED WITH #9 GAGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "M" MORTAR (2500 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS. ALL MASONRY CONSTRUCTION TO BE EITHER BOUND BY TIE BEAMS AND TIE COLUMNS.
- REINFORCED UNIT MASONRY: ALL REINFORCED MASONRY CONSTRUCTION SHALL BE IN ACCORD WITH APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST—IN—PLACE CONCRETE AND CONCRETE MASONRY. VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRET VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRETE MEMBERS WITH A STANDARD HOOK. LAPS WITH REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS. CONTRACTOR SHALL COORDINATE PLACING OF DOWELS TO ACCOMMODATE MODULE OF MASONRY UNITS. ALL VERTICAL CELLS AND BEAMS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3000 PSI CONCRETE WITH #8 COARSE AGGREGATE. USE HIGH—SLUMP 8"±1" (SUPERPLASTICIZED) WHERE HEIGHT OF LIFT EXCEEDS 4'-0" WHERE HEIGHT OF OPEN CELL EXCEEDS 4'-0", USE HIGH—LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN—OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4'-0" LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS. LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS.
- CONCRETE MASONRY UNITS (BLOCK) SHALL COMPLY WITH THE PROVI-SIONS OF THE STANDARD SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY,ACI 530.
- 4. HOLLOW BLOCK SHALL COMPLY TO ASTM C-90-90, TYPE II, GRADE N-II.
- MORTAR SHALL COMPLY WITH ASTM C-270, TYPE M, WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI.
- HORIZONTAL REINFORCING SHALL BE DUR-O-WALL STANDARD (9 GA.) AT 16 O.C. (TRUSS TYPE FOR NON-REINF. MASONRY AND LADDER TYPE FOR REINF. MASONRY) ASTM CLASS B-2, HOT DIPPED GALVANIZED OR APPROVED EQUAL.
- VERTICAL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. FILL ALL REINFORCED CELLS WITH 3000 PSI CONCRETE OR GROUT. SEE PLAN FOR SIZE AND SPACING OF VERTICAL REINFORCING.
- MASONRY COMPRESSIVE STRENGTH f'm = 2000 PSI. (NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2800 P.S.I.)
- CONSOLIDATE GROUT POURS AT THE TIME OF PLACEMENT BY MECHANICHAL MEANS AND RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT. 10. PLACE ALL MASONRY IN RUNNIG BOND WITH 3/8" MORTAR JOINTS, PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS AND
- PILASTERS AND ADJACENT TO GROUTED CELLS. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF MASONRY WALLS DURING CONSTRUCTION. ALL NECESARY PRECAUTIONS MUST BE TAKEN TO PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY RESULTING FROM
- TEST ONE SET OF MASONRY UNITS IN ADVANCE OF BEGINNING OPERATIONS AND ONE SET DURING CONSTRUCTION FOR EACH 5000 SQUARE FEET OF WALL AREA. SAMPLE FROM ACTUAL FIELD UNITS.

STEEL STUDS: (LIGHT GAUGE FRAMING)

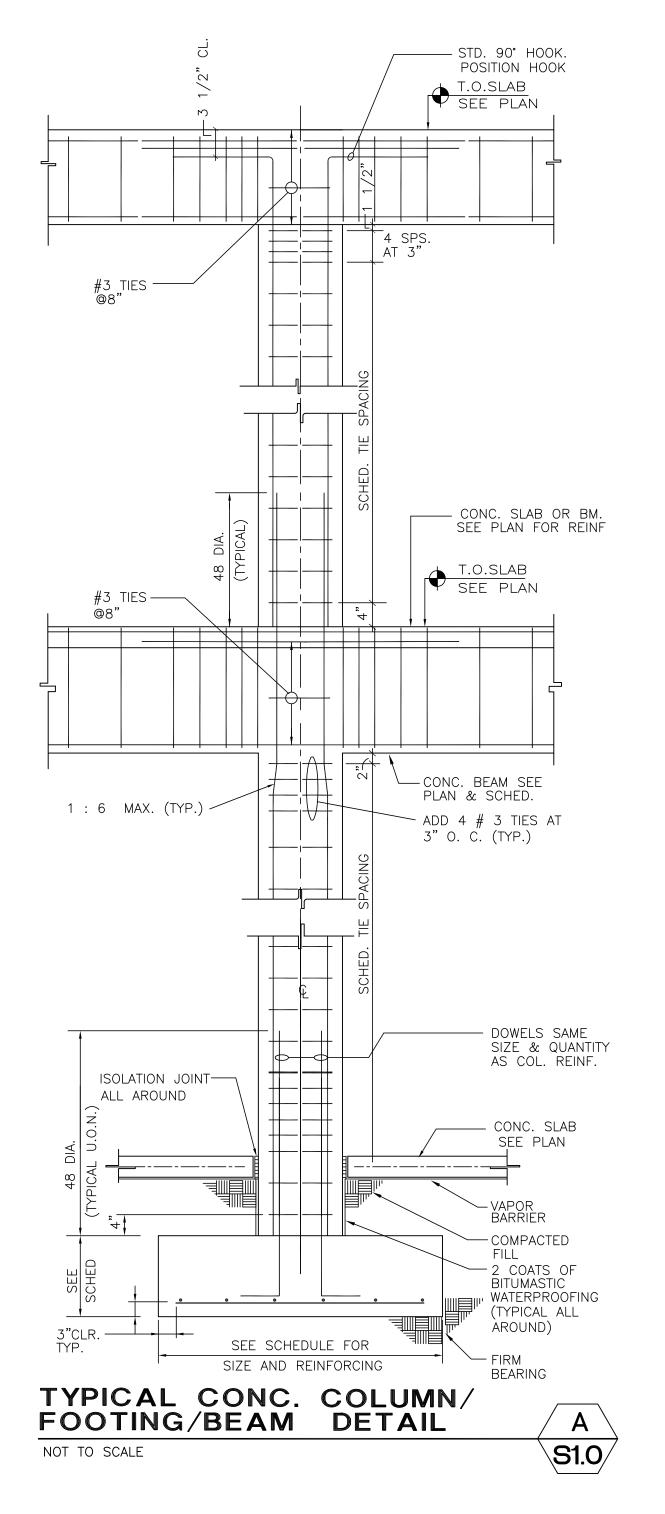
- DESIGN FABRICATION AND ERECTION SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD—FORMED STEEL STRUCTURAL MEMBERS", INCLUDING COMMENTARY AND SUPPLEMENTARY INFORMATION. WELDING SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE—SHEET STEEL" D1.3 AND PERFORMED ONLY BY WELDERS CERTIFIED UNDER D1.3. SELF-DRILLING SCREWS SHALL BE EQUIVALENT TO BUILDEX TEKS AND HAVE ALLOWABLE SERVICE LOAD CAPACITIES WITH 4:1 FACTOR OF SAFETY FROM TEST DATA.
- 2. ALL STEEL STUDS TO BE 16 GA. MIN. GALVANIZED, UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS. 3. SHOP FABRICATE ALL FRAMES. WELDS TO DEVELOP MEMBER IN
- SHEAR AND MOMENT CARRYING CAPACITY. CLEAN AND PAINT ALL WELDS WITH GALVACON. STUDS PLACED AGAINST CONCRETE TO BE SEPARATED BY 30 LB.
- 5. PRIOR TO PREFABRICATION OF FRAMING, THE CONTRACTOR SHALL SUBMIT FABRICATION AND ERECTION DRAWINGS TO THE ARCHITECT OR ENGINEER TO OBTAIN APPROVAL.
- FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE WITH COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMEN TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNITL PROPERLY FASTENED.
- 8. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT ENDS OF THE STUDS ARE POSITIONED IN THE TRACK WITH A MINIMUM GAP. PRIOR TO STUD AND TRACK ATTACHMENT.

PRESTRESSED PRECAST JOISTS:

- (SHOP DRAWINGS REQUIRED) PRESTRESSED PRECAST JOISTS TO BE OF SIZE AND SPACING AS INDICATED ON PLANS, WITH A
- COMPOSITE SLAB REINFORCED AS SHOWN, UNLESS OTHERWISE INDICATED ON PRESTRESSED JOISTS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH PLANS. THE FLORIDA BUILDING CODE, P.C.I. MANUAL AND A.C.I. CODE MEMBERS SHALL BE DESIGNED TO CARRY OWN DEAD LOAD PLUS ALL SUPERIMPOSED INSITU DEAD LOADS PLUS REQUIRED LIVE LOADS. ALL MEMBERS SHALL ALSO BE DESIGNED TO CARRY ALL EXPECTED
- CONSTRUCTION PHASE LOADS. DIFFERENTIAL CAMBER BETWEEN JOISTS AND BETWEEN THE JOISTS AND ADJACENT INSITU CONCRETE BEAMS
- SHALL BE KEPT TO A MINIMUM. COPE TOP OF JOISTS AT SUPPORTS TO PROVIDE CLEARANCE FOR BEAM REINFORCEMENT AS REQUIRED. PRECAST JOIST MANUFACTURER SHALL PROVIDE ADEQUATE BRACING OF ANY TILTED JOISTS SO TO AVOID
- SIDEBOWING OF JOISTS AT INCLINED RAMPS DURING CONSTRUCTION. SUBMIT FABRICATION DRAWINGS, SECTION DRAWINGS AND CALCULATIONS. THESE DOCUMENTS SHALL
- IDENTIFY THE SPECIFIC PROJECT AND SHALL BEAR THE SIGNATURE AND IMPRESSED SEALED OF THE FLORIDA REGISTERED PROFESSIONAL ENGINEER WHO PREPARED THEM.

8. PRECAST JOIST SHOP DRAWINGS SHALL BE SUBMITTED SIGNED & SEALED BY DELEGATE STRUCTURAL P.E.

- CRANE, HEAVY CONSTRUCTION EQUIPMENT, ETC. AN ENGINEER SHALL BE EMPLOYED BY THE CONTRACTOR FOR ALL WORK ASSOCIATED WITH TOWER CRANES, INCLUDING FOUNDATION, BRACING, HOLES IN STRUCTURE, SHORING, ETC. THIS ALSO APPLIES TO ANY HEAVY EQUIPMENT THAT IS TO BE ATTACHED TO THE STRUCTURE SUCH AS CONCRETE PUMPS. THIS ALSO APPLIES TO UTILITY POLES, UNDERGROUND TANKS, A/C SUPPORTS, ETC.
- COMPLETE CALCULATIONS, IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, WIND LOADS OF ALL ELEMENTS ARE TO BE SUMITTED TO THE ENGINEER OF RECORD, AS WELL AS SIGNED AND SEALED DRAWINGS IF APPLICABLE.
- 3. THE ENGINEER DOING THIS WORK SHALL INSPECT ALL PHASES OF IT TO INSURE COMPLIANCE WITH HIS DESIGN.
- PRODUCT CONTROL APPROVAL: 1. PRODUCT CONTROL APPROVAL IN ACCORDANCE WITH THE CITY SHALL BE SUBMITTED TO THE ARCHITECT FOR ALL MANUFACTURER-DESIGNED ITEMS INCLUDING DOORS, WINDOWS, AND ROOFING.
- ONLY PRODUCTS THAT HAVE BEEN PRE-APPROVED BY DADE COUNTY ARE ACCEPTABLE. CONSTRUCTION TOLERANCES:
- 1. ALL TOLERANCES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE APPLICABLE ACI BUILDING CODE SECTIONS OF THE MANUAL OF CONCRETE PRACTICES. 2. MINIMUM TOLERANCES SHALL BE AS FOLLOWS: a. VARIATIONS FROM THE PLUMB:
- 1. IN THE LINE AND SURFACES OF COLUMNS, PIERS, WALLS, AND IN ARRISES AS FOLLOWS: IN ANY 10-FOOT LENGTH 1/4"
 - MAXIMUM FOR ENTIRE LENGTH 1/2"
 - 2. FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER LINES:
- b. VARIATION FROM THE LEVEL OR FROM THE GRADES INDICATED IN THE DRAWINGS:
- 1. IN SLAB SOFFITS, CEILINGS, BEAM SOFFITS, AND IN ARRISES AS FOLLOWS:
- IN ANY 10-FOOT LENGTH 1/4"
- IN ANY BAY OR ANY 20-FOOT LENGTH 3/8" 2. FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES, AND OTHER LINES:



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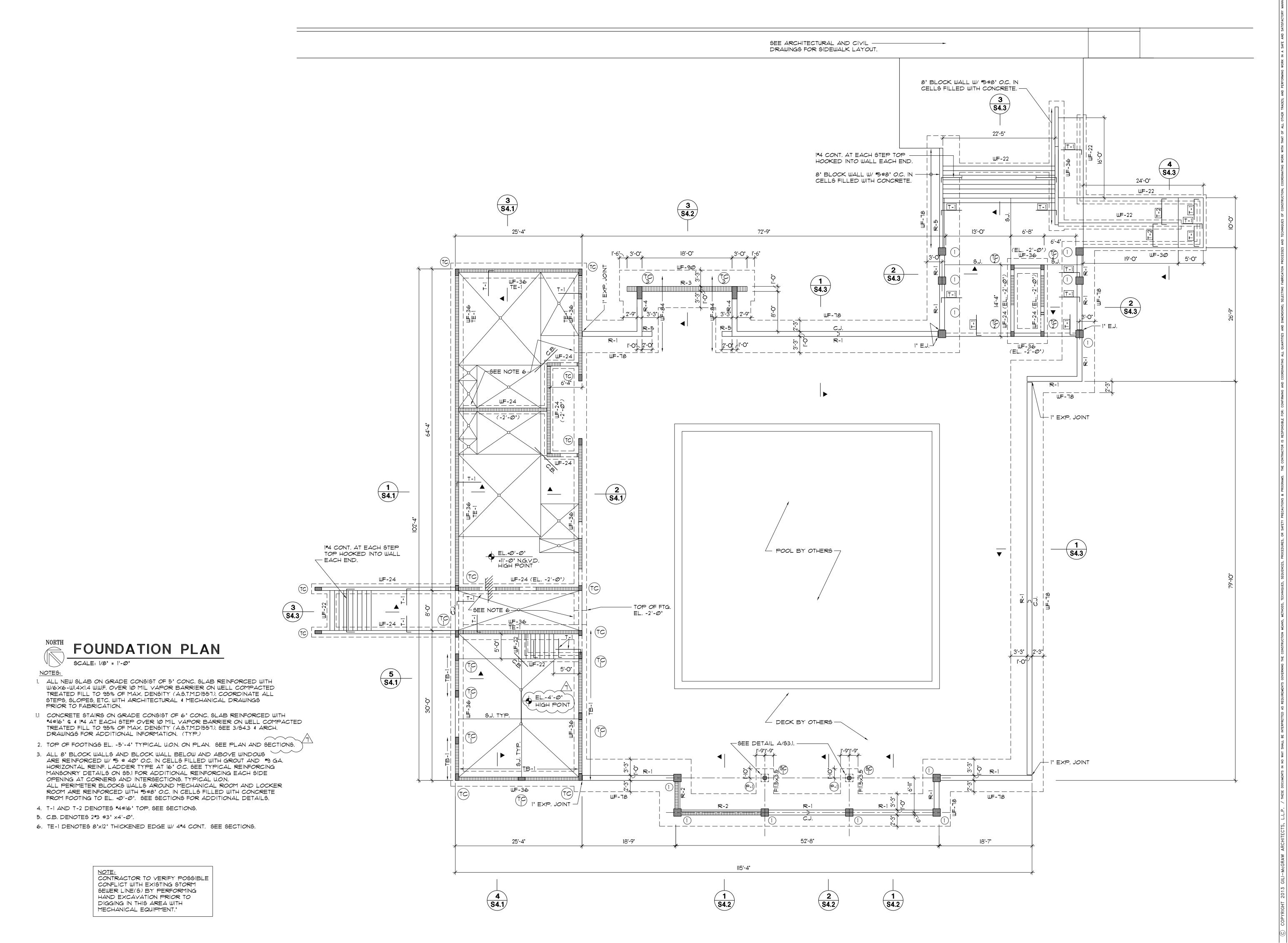
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SITE REWORK

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BLDG. DEPT. COMMEN



CONSULTANT:

BRILL RODRIGUEZ SALAS

A ASSOCIATES, INC.

C.A. NO. 00000502

Satisfant, Fig. Str. Suff. 262

PHOME 308-273-6878

-McGRAW ARCHITECTS, L.L.P. THWEST 99TH TERRACE; MIAMI, FLORIDA 33 TEL. 305.663.1263

S PARK NEW POOL FACILIT
CITY OF MIAMI
1901 N.W. 24TH AVENUE
MAMI FLORINA 33125

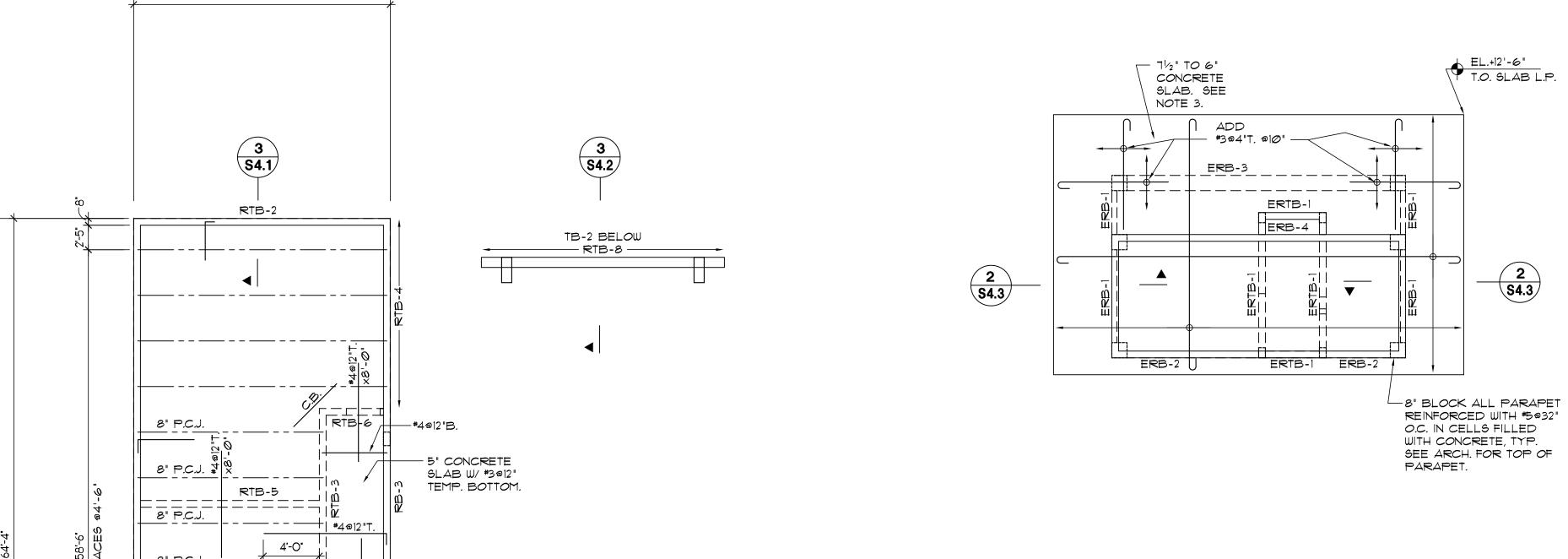
ARMANDO SALAS, P.E.

ATE: 09.20.2013 EVISIONS 1 12-15-15 SITE REWORK

DWG. No.

S2.1

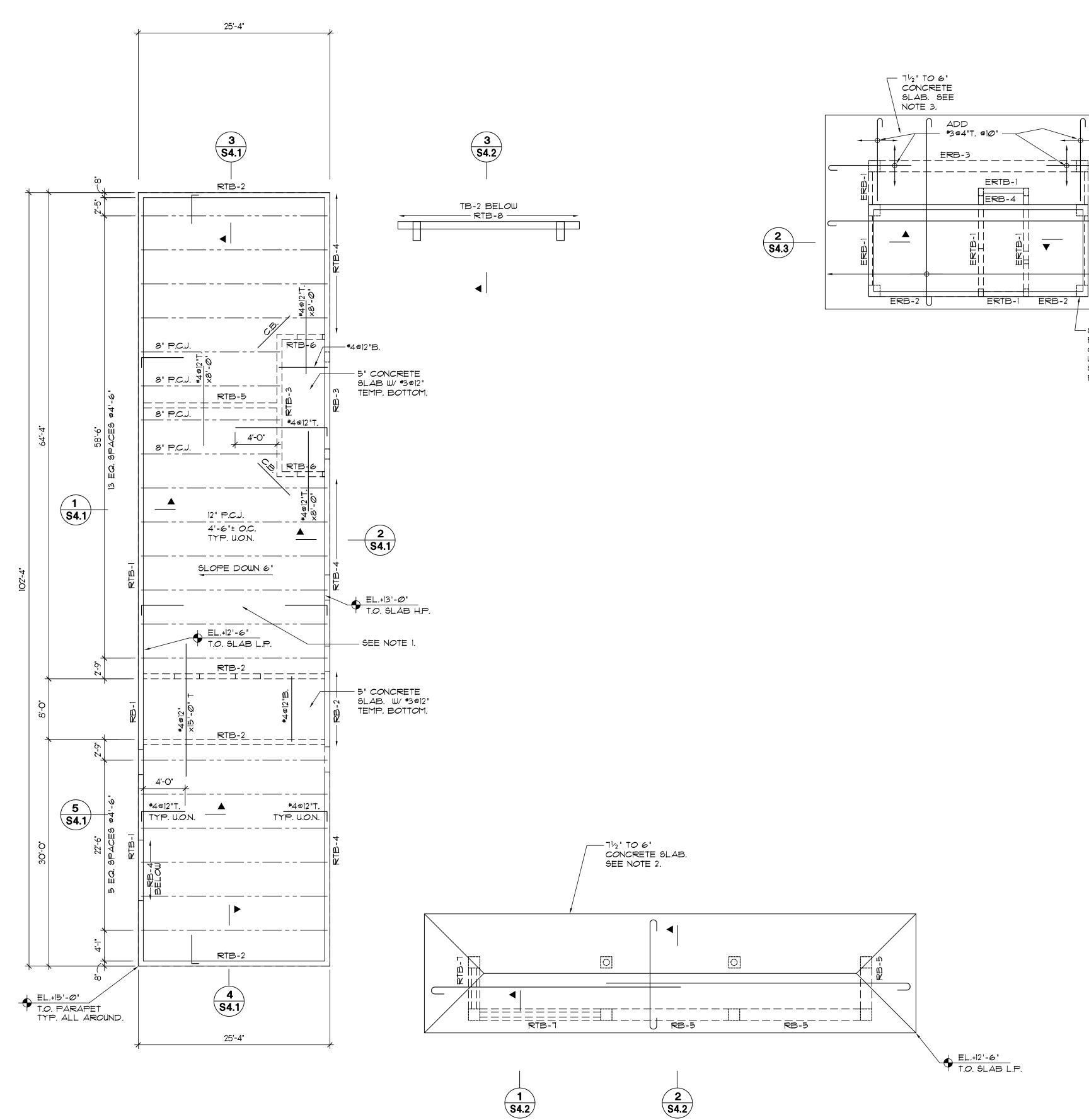
EVISIONS 1\ 12-15-15 SITE REWORK



ROOF FRAMING PLAN

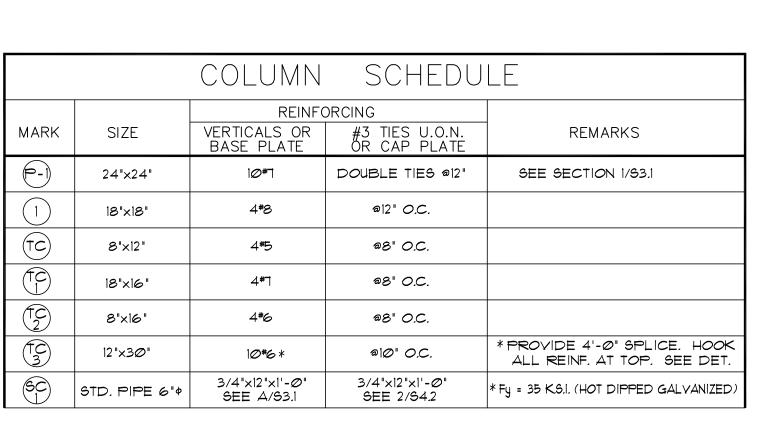
SCALE: 1/8" = 1'-0"

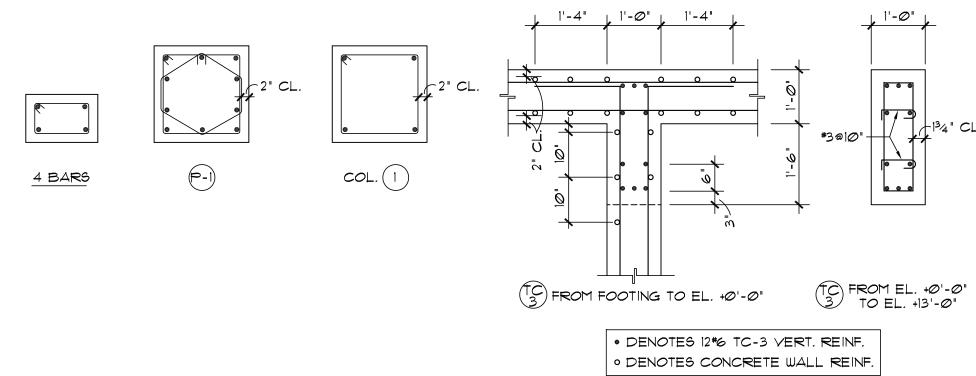
- 1. ROOF DECK ABOVE BATHROOMS AND MECHANICAL ROOM CONSISTS OF 4" COMPOSITE CONCRETE SLAB REINF. WITH #3@12" PERPENDICULAR TO JOIST \$ #3 @12" O.C. PARALLEL TO JOISTS ON SLAB CHAIRS TO POVIDE 11/2" CLEAR FROM THE BOTTOM OVER P.C.J. AS SHOWN ON PLAN. TYPICAL U.O.N. SEE SECTIONS AND DETAILS FOR ADDITIONAL
- 2. ROOF DECK ABOVE SHADED SITTING AREA CONSISTS OF $1\frac{1}{2}$ " TO 6" CONCRETE SLAB REINFORCED WITH #4010" EACH WAY TOP AND BOTTOM OVER SLAB CHAIRS TO PROVIDE 1/2" CLEAR FROM THE BOTTOM AND TOP OF SLAB SURFACE. REINFORCING SHOWN ON PLAN IS IN ADDITION TO THIS MAT.
- 3. ROOF DECK ABOVE ENTRY BOOTH AREA CONSISTS OF $1\frac{1}{2}$ " TO 6" CONCRETE SLAB REINFORCED WITH #4010" EACH WAY TOP AND BOTTOM OVER SLAB CHAIRS TO PROVIDE 11/2" CLEAR FROM THE BOTTOM AND TOP OF SLAB SURFACE. REINFORCING SHOWN ON PLAN IS IN ADDITION TO THIS MAT.
- 4. SUPERIMPOSED LOADS L.L. = 30 P.S.F. + EQUIPMENT WEIGHT
 - D.L. = 25 P.S.F. FOR ADDITIONAL EQUIPMENT WEIGHT AND LAYOUT, SEE MECHANICAL AND ARCHITECTURAL DRAWINGS.
- 5. SEE STRUCTURAL NOTES ON SI.Ø.
- 6. COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL B/S5.1 FOR ADDITIONAL REINFORCING AROUND OPENING.
- 1. SEE BEAM SCHEDULE AND WIND DIAGRAM ON SHEET \$3.1.
- 8. C.B. DENOTES 2 #4 @4" X4'-0" INNER LAYER AT CORNERS. TYPICAL.
- 9. PROVIDE 8"X8" CONCRETE CAP MIN. WITH 2 #4 CONT. AT TOP OF ALL PARAPET SEE SECTIONS. TYPICAL. U.O.N.



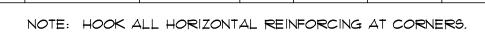
S4.2

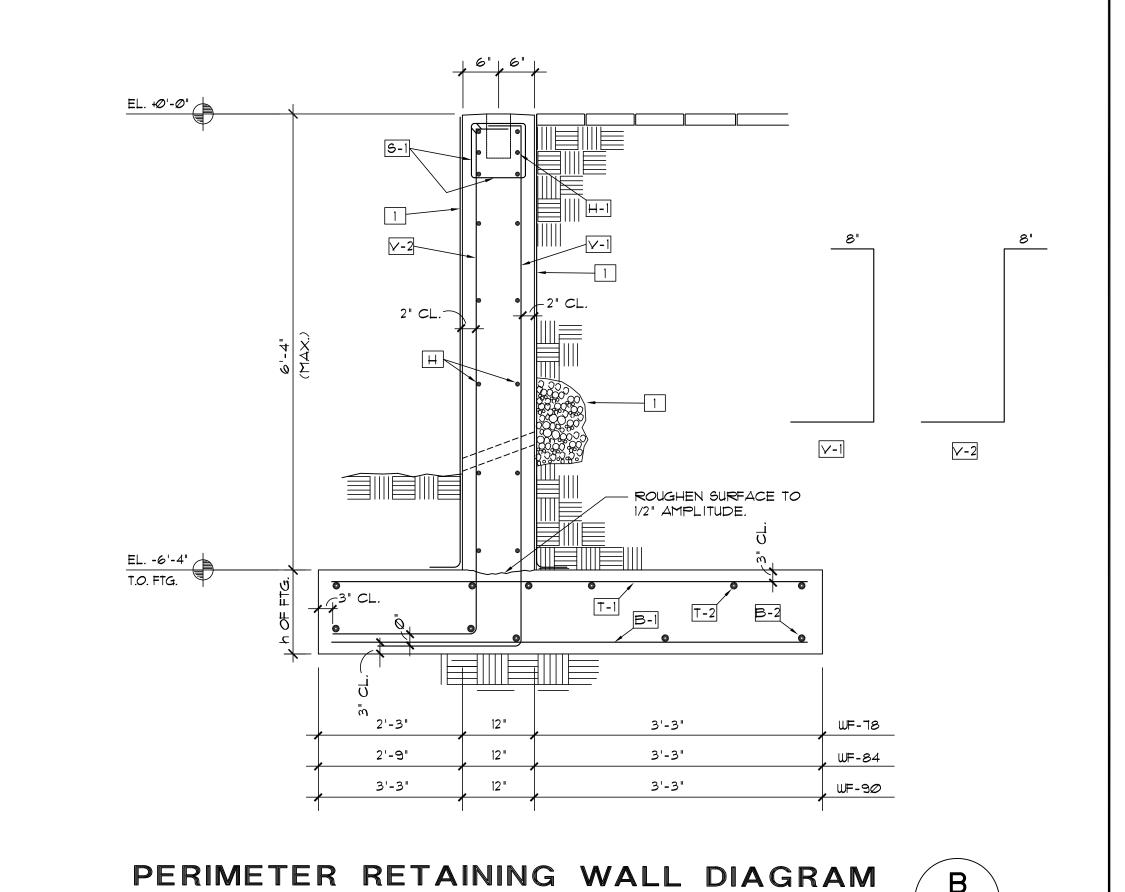
12-15-15 SITE REWORK 7.19.2013





	12" PERIMETER RETAINING CONCRETE WALL AND FOOTING SCHEDULE													
	WALL REINFORCING													
	VERT	TICAL HORIZ		NTAL							DEMARKS			
MARK	V-1	V-2	Н	H-1	S-1	d-1	B-1	B-2	T-1	T-2	REMARKS			
R-1	# 5@12"	#4@12"	#4@12" EACH FACE	3#4 EACH FACE	#3TIES @48"*	10"	#5 a36"	5#4	#5 a12"	6#4	* ADD 1#3 TIES EACH SIDE OF EACH FENCE POLE @4'-O"			
R-2 *	# 5@12"	#4@12"	#4@12" EACH FACE	3#4 EACH FACE	#3TIES @48"*	10"	#5 a36"	5#4	#5 a12"	6#4	*PROVIDE DOWELS FOR BLOCK WALL ABOVE. SEE 1/94.2.			
R-3 *	#5alØ"	#4@IØ"	#4@IØ"	3#5 EACH FACE	6#3 @6" EA. END. BAL. #3@20"	10"	#5 al@"	8#5	#5 a12"	6#4	*PROVIDE DOWELS FOR BLOCK WALL ABOVE. SEE 3/54.2.			
R-4	#5alØ"	#4@lØ"	#4@IØ"	3#5 EACH FACE	#3@lØ"	10"	#5 a1Ø"	8 # 5	#5 a12"	6#4				
R-5 *	#5a1Ø" *	#5@IØ"X		3#4 EACH FACE EXTEND 2'-0' INTO R-1	#3TIES @10"	10"	-	-	-	-	* TOP OF WALL EL1'-0"			





3/4'' = 1'-0''

S3.1

2	CANTILE TOP BAR	RS	"_"	00	36 DI 	COTTOM E AM. LAP SS: WHERE NEAT MIDSP.	BARS L1 CCESARY CAN	CONT. TO	OUDDODE LE	OK
		CC	ONC	CRE	TE		E	ВЕА	M SCHEDU	LE
MARK	ELEV. TOP OF BEAM	SIZ W		RE BOTT.	INFORC	CING	E		#3 TIES (U. O. N.) SPACING EACH END	REMARKS
TB-1	+Ø'-Ø"	8"	12 "	2#5	2#5					*AT MECHANICAL ROOM SEE SECTIONS.
TB-2	+6'-4"	12"	12 "	2#6*	2#6*				a 2"	* HOOK EACH END SEE SECTION 3/54.2
RTB-1	+12'-6"	8"	22"	2#5	2#5				a 12 "	
RTB-2*	+13'-0"	8"	12"	2#5	2#5				4@12", BAL. @48"	* RAKED TIE BEAM
RTB-3	+12'-101/2"	8"	18"	2#5	2#5				a12"	
RTB-4		8"	2Ø"	2#5	2#5				a 12 "	
RTB-5	+12'-10 ¹ / ₂ " +12'-6"	8"	12"	2#5	2#5				4@12", BAL. @48"	* RAKED TIE BEAM
RTB-6	RTB-6 +13'-0' 8" 12" 2#5 2#5 4@12", BAL. @48"									
RTB-7		18"	3Ø"	3#6	2#5				a 12 "	
RTB-8	+13'-@"	12"	12"	2#6	2#5				a 12 "	*AT MECHANICAL ROOM SEE SECTIONS.
RB-1	+12'-6"	8"	12"	2#5	2#5				306", BAL. 012"	
			I							

8#4

2#4

308", BAL. 012"

a12"

*a*12 "

#4@12"

@12"

a12"

a|Ø"

a12"

a12"

*ක*12 "

4@12", BAL. @48"

a12 "

a12"

*PARAPET BEAM. EXTEND 2#5T. 2'-Ø" EA. SIDE INTO 8"x8" CAP

* COORD. BOTTOM OF BEAM W/ DOOR MANUF.

* TOP OF SLAB

| RB-2 | +13'-Ø" | 8" | 18" | 2#5 | 2#5

RB-3 | +13'-0" | 8" |60" | 2#5 | 2#5

RB-4 +6'-6" 8" 18" 2*5 2*5

RB-5 | +12'-6" | 18" | 30" | 3#6 | 2#6

ERB-1 +12'-6" | 6" | 30" | 1#6 | 1#6

ERB-2 +12'-6" | 8" |30" | 2#5 | 2#5

ERB-3 +12'-6" | 18" | 30" | 3#7 | 2#5

ERB-4 +16'-6" 8" 12" 2#5 2#5*

ERTB-1 +12'-6" 8" 14" 2#5 2#5

PRTB-1 +11'-0" 8" 16" 2#5 2#5

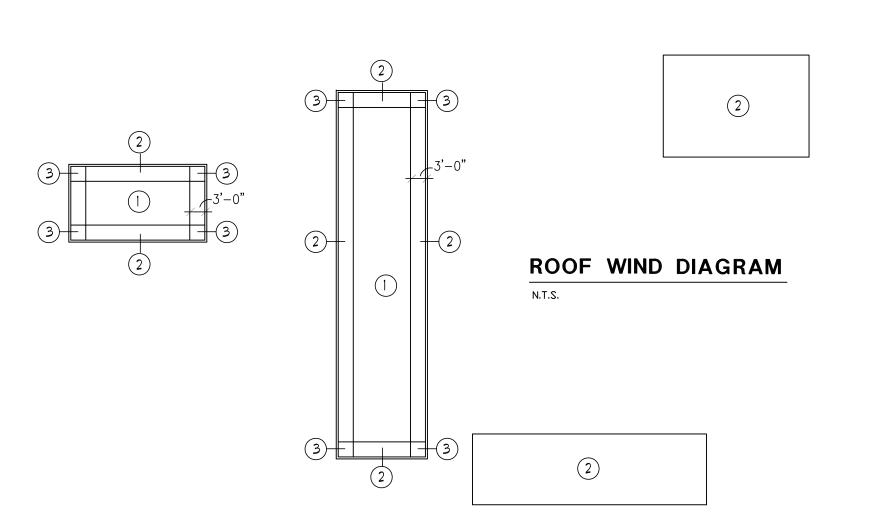
PRTB-2 +10'-6" 8" 16" 2#5 2#5

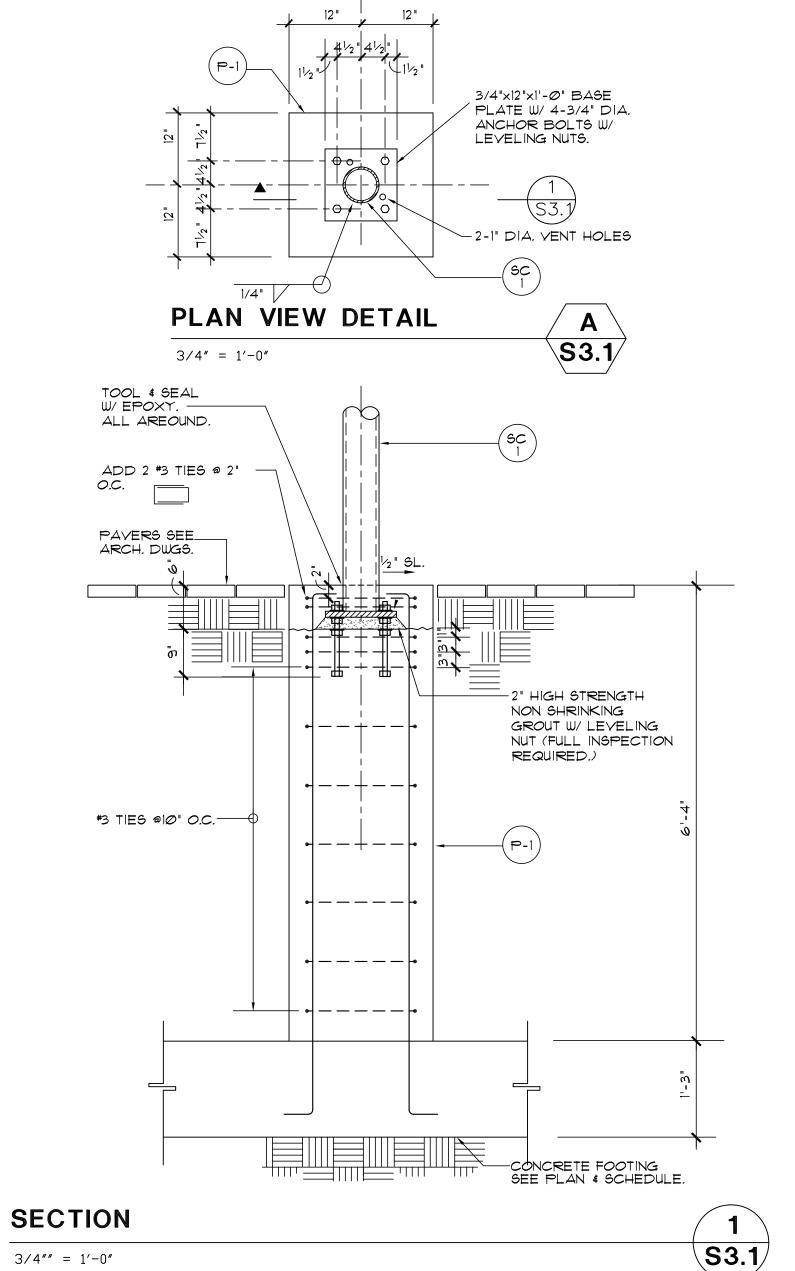
PRTB-3 VARIES* 8" | 12" | 2#5 | 2#5

PRTB-4 +10'-10" 8" 16" 2#5 2#5

PRB-1*+10'-8" 8" 32" 2#5 2#5

	FC	OTING	SCHEDUL	 E
MARK	SIZE L x W x D	REINFO LONGITUDINAL	RCING TRANSV.	REMARKS
F11.5×3.5	11'-6"x3'-6"x1'-3"	5#5 T.\$B.	9#5 TOP 13#5 BOTT.	
WF-90*	90" × 18"	* 6*4 TOP * 8*5 BOTT.	* #5@12" TOP * #5@10" BOTT.	* SEE RETAINING WALL *SCHEDULE THIS SHEET.
WF-84 *	84" × 18"	* 6*4 TOP * 8*5 BOTT.	* #5@12" TOP * #5@10" BOTT.	* SEE RETAINING WALL * SCHEDULE THIS SHEET.
WF-78 *	78" × 15"	* 6#4 TOP 5#4 BOTT.	* #5@12" TOP * #5@36" BOTT.	* SEE RETAINING WALL *SCHEDULE THIS SHEET.
WF-36	36"× 12"	4 #5 BOTT.	#5 @ 12" BOTT.	
WF-3Ø	3Ø"× 12"	3 #5 BOTT.	#5 @ 16" BOTT.	
WF-24	24"× 12"	3 #5 BOTT.	#5 @ 16" BOTT.	
WF-22	22"× 12"	2 #5 BOT		





	TOTAL GROS	S WIND LOAD FO	OR COMPO	NENTS A	S PER ANSI/AS	CE 7-10					
ZONE		GROSS ROOF UPLIFT									
			TRIBUTA	RY ARE	A						
	10	9 S.F. OR LESS			100 S.F. OF	MORE					
		-42 PSF			-39 PSI	=					
2		-71 PSF		-46 PSF							
3		-1Ø7 PSF			-46 PSF	1					
			WALL WI	ND LOA	Ď						
			TRIBUTA	RY ARE	:A						
	≤ 1Ø 5.F.	2Ø 5.F.	50 S.F		100 S.F.	15Ø S.F.					
(4)	+39, -42 PSF	+37, -4Ø PSF	+35, -38	PSF	+33, -36 PSF	+32, -35 PS					
(5)	+39, -51 PSF	+37, -48 PSF	+35, -44	PSF	+33, -40 PSF	+32, -38 P					

NOTES: I. INTERPOLATE FOR INTERMEDIATE VALUES OF TRIBUTARY AREA 2. WIND CRITERIA

KD = 0.85 ALL WIND LOADS SHOWN ARE WORKING LEVEL LOADS.

WALL WIND DIAGRAM

CONSULTANT:

[S, L.L.P.]

RILL RODRIGUEZ SALAS

E. ASSOCIATES, TWO.

1. FLORIDA 33156

E. ASSOCIATES, TWO.

1. 56.2632

LAWRENCE F. BRILL PE NO. 5381

LUIS M. RODRIGUEZ PE NO. 22133

ARMANDO SALAS PE NO. 38007

LI-McGRAW ARCHITECTS, L.L.P.
OUTHWEST 99TH TERRACE; MIAMI, FLORIDA 3316
TEL. 305.663.1263 FAX. 305.256.2632
LICENSE NUMBER: AAP000492

CITY OF MIAMI
1901 N.W. 24TH AVENUE

SEAL:

ARMANDO SALAS, P.E.

SALAS, P.E.

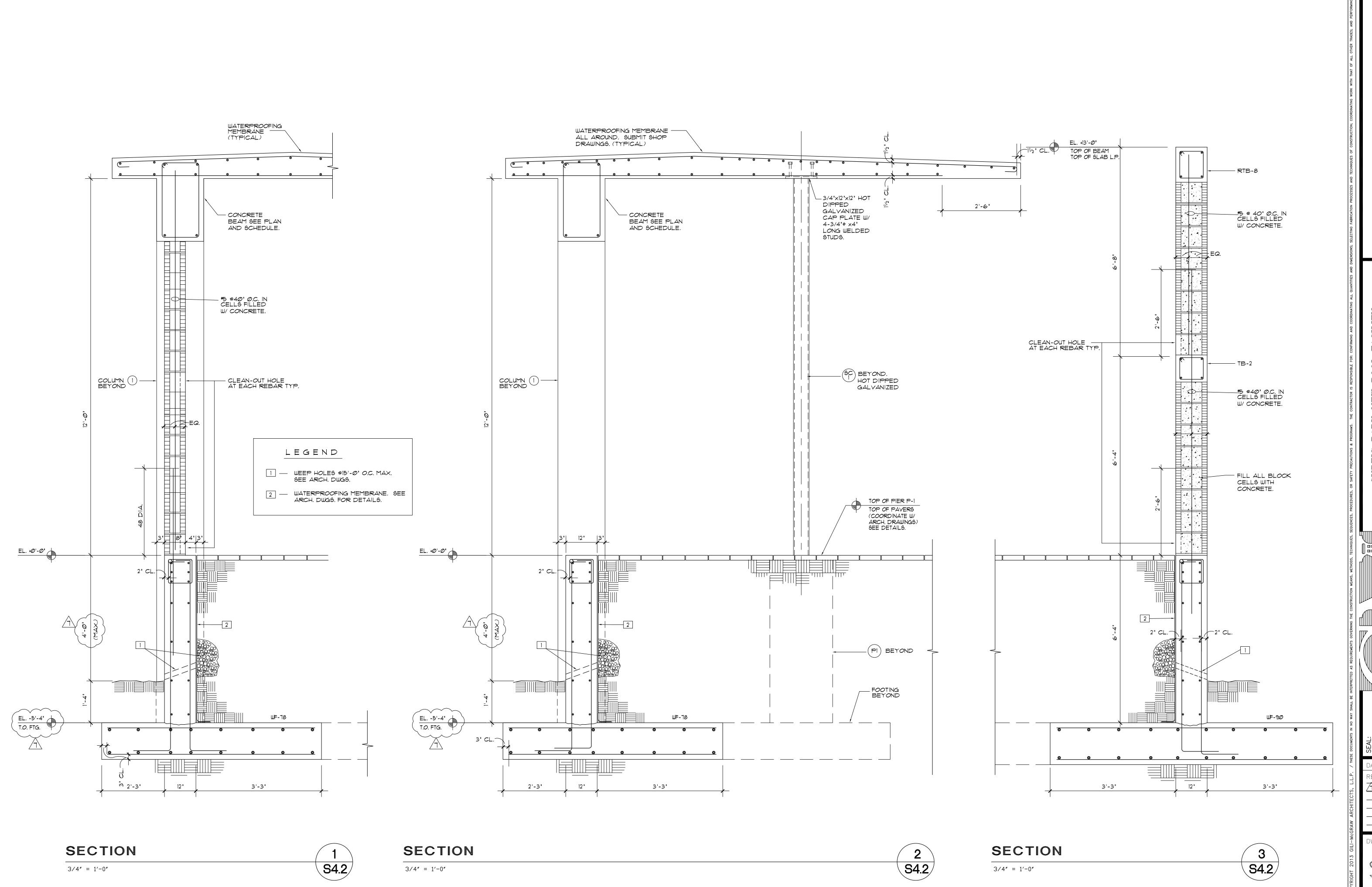
DATE: 09.20.2013

REVISIONS

12-15-15

SITE REWORK

DWG. No.

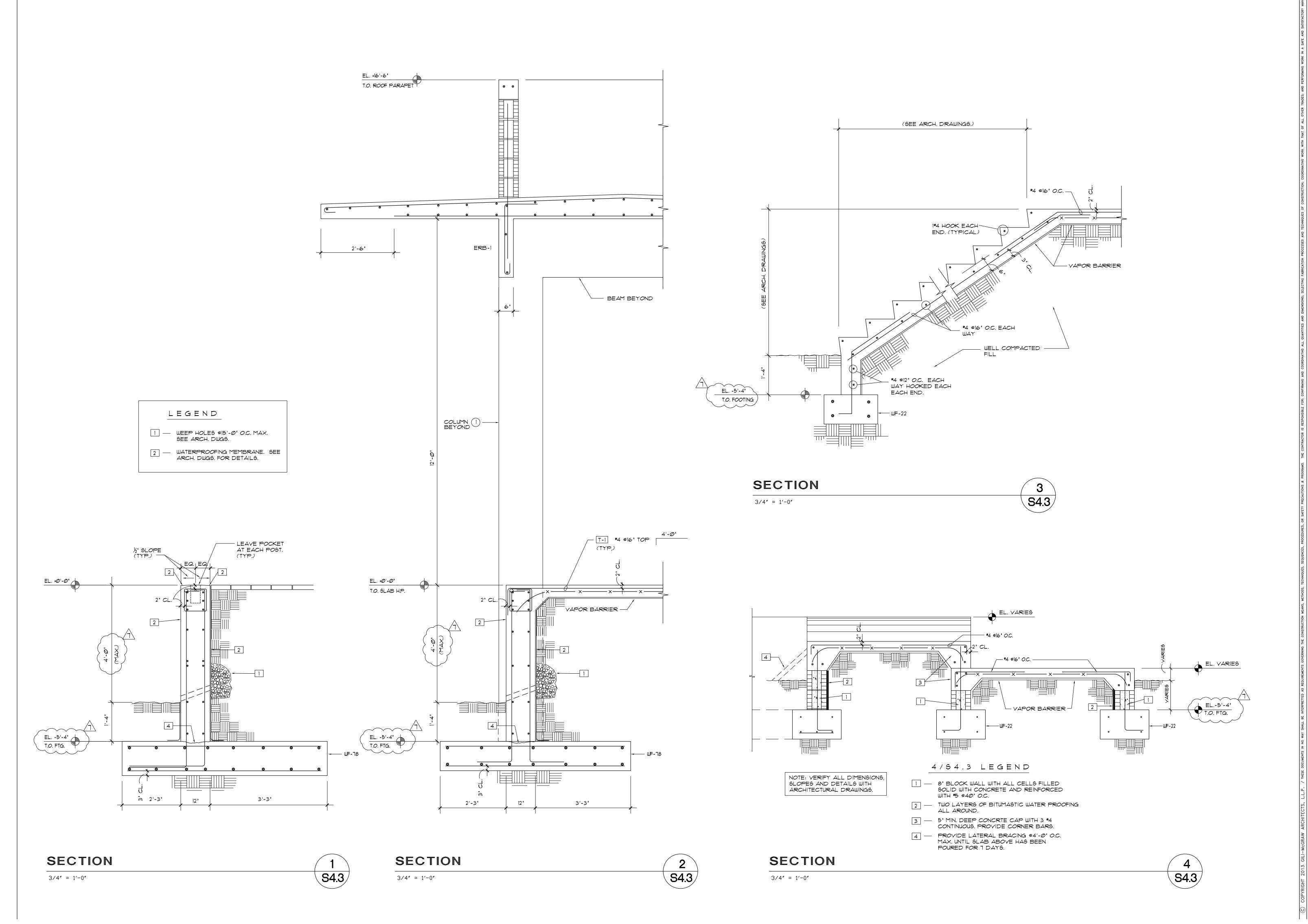


ARCHITEC -McGRAW

GIIII

POOL OF . W. 24TH FLORIDA NEW ARK

12-15-15 SITE REWORK



BRILL RODRIGUEZ SALAS

S. A. SASSOCIATES, INC.
C. A. NO. 00000502

SHOWN F. ZS. F. SUITE 262

PHONE: 308-273-6878

-McGRAW ARCHITECTS, L.L.P. THWEST 99TH TERRACE; MIAMI, FLORIDA 3 TEL. 305.663.1263 FAX. 305.256.2632 LICENSE NUMBER: AAP000492

PARK NEW POOL FACILITY
ITY OF MIAMI
1901 N.W. 24TH AVENUE

ANDO SALAS, P.E. #38007

DATE: 09.20.2013

REVISIONS

12-15-15

SITE REWORK

DWG. No.

54.

SECTION THRU TYPICAL

WINDOW (U.O.N.)

N.T.S.

\S5.1

TYPICAL LOW LIFT GROUTING

(NO CLEAN OUT REQUIRED)

TECHNIQUE DETAIL

N.T.S.

G

\S5.1

TYPICAL HIGH LIFT GROUTING TECHNIQUE DETAIL

N.T.S.

FIGURION; COORDINATING WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING WORK IN A SAFE AND CONSULT CONSULT L. L. P.

ERRACE; MIAMI, FLORIDA 33156

FAX. 305.256.2632

JMBER: AAP000492

LAWRENCE F.

LUIS M. RODRIG ARMANDO SAL

GILI-MCGRAW ARCHITECTS, L. 5801 SOUTHWEST 99TH TERRACE; MIAMI, FLORI TEL. 305.663.1263 FAX. 305.256.2632

CITY OF MIAMI
1901 N.W. 24TH AVENUE
MIAMI, FLORIDA 33125

DUIREMENTS GOVERNING THE CONSTRUCTION MEANS, METHODS, TEC

MANDO SALAS, P.E.

ATE: 09.20.2013 EVISIONS

EVISIONS

1 12-15-15

SITE REWORK

DWG. No.

TOP COURSE, TYP.

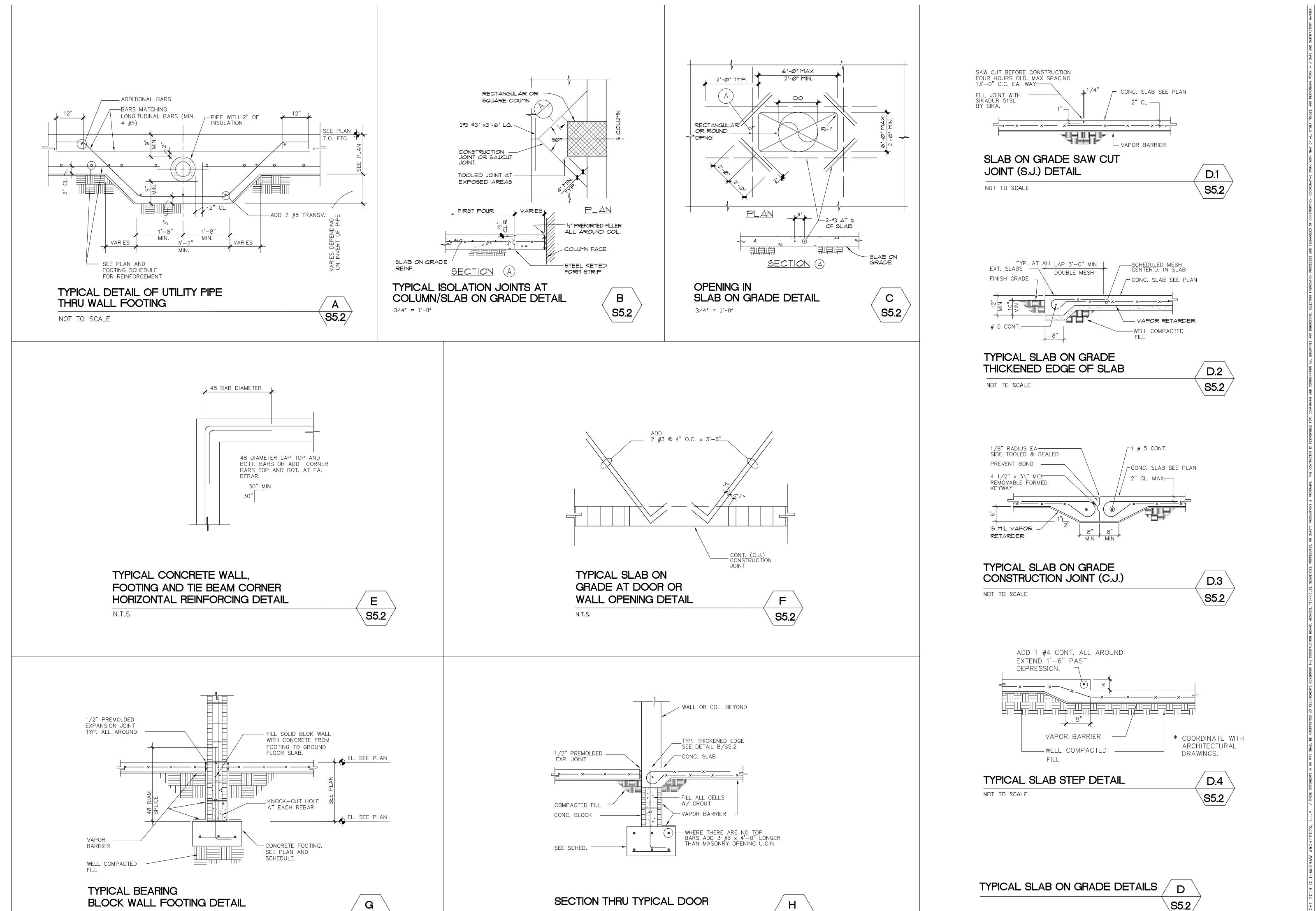
TIE BEAM DETAIL (U.O.N.)

N.T.S.

S5.1

K

S5.



NOT TO SCALE

S5.2

S5.2

NOT TO SCALE

ARCHITEC

McGRAW GIIII

POOL NEW .¥ . ARK

12-15-15 SITE REWORK

- PROVIDE WITH EXTENDED SILL AND WIRE MESH BIRD SCREENS.
- 2. COORDINATE FINISH WITH ARCHITECT PRIOR TO PURCHASE. 3. SMALLER LOUVER FREE AREA WILL NOT BE ACCEPTED.
- 4. PROVIDE WITH INSECT SCREEN.

	FAN SCHE	DULE	<u></u>		
	UNIT TAG	EF-1	EF-2	EF-3	EF-4
SELECTION DATA	SERVICE AREA	LOCKER	STORAGE/ELEC	POOL MECH.	RESTROOM
₹ □	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
Ę	MODEL	BDF-80-4	BDF-80-4	SP-A1410	SP-A250
出	CONFIGURATION	INLINE	INLINE	CEILING	CEILING
ত					
<u>~</u>	AIR FLOW (CF)	1) 800	600	1300	200
DATA	EXTERNAL STATIC PRESSURE (IN. W.	(a) Ø.3	Ø.3	Ø.3	Ø.25
Ω	NOISE (SONE	:6) 7.6	6.0	9.9	3.Ø
₽ V V					
₹	MOTOR FAN POWER (HF	P) 1/4	1/4	786 (W)	83 (W)
DATA	MOTOR FAN SPEED (FRF	M) 97Ø	842	1450	1000
<u>₹</u>	ELECTRICAL SERVICE (VOLT/PH/H;	I) 115/1/60	115/1/60	115/1/60	115/1/60
ELECTRICAL					
Η					
ΔTΑ 	OPERATING WEIGHT (LBS	3) 11	71	56	24
Ę Ź	DIMENSION (LXWXH) (II	N) 24×18.5×16	24×18.5×16	14.4×24×14.5	14×12×12
GENERAL DATA					
Æ	NOTES	1,3,4,6,7 (2)	1,3,4,5,6	1,3,4,5,6	1,4,8
	NOTE:		<u> </u>		·

- PROVIDE DISCONNECT SWITCH.
- . PROVIDE THERMOSTAT TO EF-1 SERVING THE FIELD STORAGE. FAN SHALL TURN-ON WHEN THERMOSTAT REACHES 85°F.
- 3. PROVIDE VIBRATION ISOLATOR.
- 4. FAN SHALL BE OF ALUMINUM CONSTRUCTION.
- 5. FAN SHALL RUN CONTINUOUSLY.
- 6. FAN AND COMPONENTS SHALL HAVE CORROSIVE PROTECTION SIMILAR TO BLYGOLD.
- VERIFY WITH VENDOR TO ASSURE REQUIREMENTS & COATINGS
- . SEE ELECTRICAL DRAWINGS FOR FAN OPERATION. (EXCEPT FAN SERVING THE FIELD STORAGE)
- 8. FAN SHALL BE INTERLOCKED TO LIGHT SWITCH.

	MECHANICAL LEGEND
SYMBOL	DESCRIPTION
	SUPPLY AIR.
	RETURN AIR CEILING GRILLE
	EXHAUST AIR CEILING GRILLE
	SIDE WALL GRILLE, LOUVER
	FIRE DAMPER
—	SMOKE DAMPER
	24V MOTORIZED VOLUME CONTROL DAMPER.
	MANUAL VOLUME CONTROL DAMPER
(†)	THERMOSTAT/TEMP. SENSOR
\bigoplus	HUMIDISTAT
€ D	DUCT SMOKE DETECTOR
NO	NORMALLY OPEN
NC AFMD	NORMALLY CLOSED AIR FLOW MEASURING DIVICE
A NECK SIZE CFM	AIR DISTRIBUTION DEVICE TAG
GY	GRAVITY VENTILATOR
	EXHAUST FAN
VAV	SINGLE INLET VAY BOX
uc	I' UNDER CUT DOOR (TYP.)
NOTE: NOT A	LL SYMBOLS MAY APPLY TO THESE PLAN.

OUTSIDE AIR CALCULATIONS (PER TABLE 6-1 OF ASHRAE 62.1-2007)							
AREA SERVED	NET OCCUP. AREA SQ.FT.	TOTAL NO. OF PEOPLE	VENTILATION RATE CFM/P OR SQ.FT.	TOTAL CFM O/A REQUIRED	TOTAL CFM O/A PROVIDE	SYSTEM NAME	
LOCKER ROOMS	1000		Ø.25 CFM/SQF	25Ø	3200	EF-1	
STORAGE ROOMS	200		Ø.12 CFM/SQF	24	600	EF-2	
POOL MECHANICAL	680		Ø.12 CFM/SQF	82	1300	EF-3	
CONTROL BOOTH	اד	1	17 CFM/PP	П	2Ø	PTC-I	
FIELD STORAGE	306		Ø.12 CFM/SQF	37	800	EF-1	
RESTROOMS	600		Ø.25 CFM/SQF	150	1600	E F-1	

AIR DISTRIBUTION SCHEDULE									
TAG	MANUF, & MODEL	FACE SIZE	NECK SIZE	MATERIAL	DAMPER	THROW	Z	CFM RANGE	NOTES
Д	TITUS / 35ØFL	SEE PLAN	SEE PLAN	ALUMINUM	0BD		MAX 20		1

GENERAL NOTES:

1. COORDINATE COLOR WITH ARCHITECT

		PTAC	SCHEDULE			
	UNIT TAG		PTAC-I			
ן ַ	MANUFACTURER		AMANA			
DATA	AREA SERVED		CONTROL BOOTH			
Z	UNIT TYPE		WALL MOUNTED			
SELECTION	EER		11.5			
<u> </u>	REFRIGERANT TYPE		R-4IØA			
";;	MODEL		PTHØ93E			
₹	SUPPLY AIR FLOW	(CFM)	245			
DATA	FRESH AIR	(CFM)	2Ø			
	TOTAL COOLING CAPACITY	(BTU/H)	8,9 <i>00</i>			
EVAP. COIL	SENSIBLE HEAT FACTOR	%	76			
\ <u>4</u>	ELECTRIC HEATER	(KW)	••			
	REV.CYCLE	BTU /C <i>O</i> P	<i>8200</i> / 32			
ELECTRIC DATA	ELECTRICAL SERVICE	(VOLT/PH/HZ)	208-1-60			
ZZ Z	MCA		5.1			

NOTES AND ACCESSORIES:

- UNITS RATED IN ACCORDANCE WITH ARI STANDARDS 210/240 OR 360/270.
- PROVIDE UNIT LEVEL WITHIN PRESCRIBED TOLERANCES.
- 3. PROVIDE I YEAR MANUFACTURER WARRANTY (PARTS AND LABOR) 4. EXTENDED 5 YEARS COMPRESSOR WARRANTY PARTS ONLY.
- 5. PROVIDE UNIVERSAL DRAIN KIT WITH CONDENSATE REMOVAL SYSTEM.
- 6. PROVIDE MOTOR OVERLOAD AND THERMAL PROTECTION.
- 1. PROVIDE WITH POWER DOOR KIT FOR VENTILATION.
- 8. PROVIDE ARCHITECTURAL EXTERIOR GRILLE, GRILLE COLORED PER ARCHITECT. SUBMIT COLOR CHART WITH SUBMITTAL. 9. PROVIDE FACTORY PRE-COAT CORROSION RESISTANCE. (HERESITE OR BRONZE GLOW EPOXY OR SIMILAR) ON CONDENSER
- 10. PROVIDE WALL SLEEVE.

H.V.A.C. GENERAL NOTES:

- THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS, TEST, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF THE AIR CONDITIONING SYSTEM SHOWN ON THE DRAWINGS AND/OR LISTED BELOW.
- OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT AND PROVIDE READY ACCESSIBILITY TO DAMPERS, VALVES AND OTHER APPURTENANCES INCLUDING ANY PART OF THE SYSTEM REQUIRED TO BE REACHED FOR BALANCING, TESTING, MAINTENANCE AND OPERATION.
- PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND ALL PLANS RELATED TO PROJECT SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- 4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WORK SHALL ALSO BE COORDINATED WITH STRUCTURE AND AVAILABLE SPACE TO ENSURE FIT AND PROPER CLEARANCES ARE BEING PROVIDED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT - ENGINEER IMMEDIATELY.
- 5. CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC. DAMAGED BY WORK. ALL WORK PERFORMED UNDER THIS HEADING SHALL CONFORM IN EVERY RESPECT TO THE FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.
- SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION. DUCTWORK SHOP DRAWINGS SHALL BE SUBMITTED AT 1/4" = 1'-0" SCALE AND BE COORDINATED WITH OTHER TRADES.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH GAUGES, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE A.S.H.R.A.E., GUIDE AND SM.A.C.N.A., STANDARDS, DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR "AIR SIDE" DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE AND OTHER TRADES BEFORE FABRICATION.
- 8. ALL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO REDUCE/ELIMINATE NOISE AND VIBRATION FROM TRANSFERRING TO THE OCCUPIED SPACE.
- 9. THERMOSTAT LOCATION SHALL BE CONFIRMED AND APPROVED BY OWNER AND ARCHITECT/ENGNIEER BEFORE INSTALLATION WHEN APPLIES. DEVICES SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR IN ACCORDANCE WITH A.D.A. REQUIREMENTS. PROVIDE WITH TRANSPARENT LOCKABLE COVER
- 10. CONTRACTOR SHALL MAINTAIN AN 'AS-BUILT' SET OF RECORD DRAWINGS ON SITE INDICATING ANY MODIFICATIONS TO THE DESIGNED SYSTEM LAYOUT. SET SHALL CLEARLY INDICATE ACTUAL INSTALLED CONDITIONS AND LOCATION OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROL DEVICES, ETC. RECORD SET SHALL BE ACCURATELY UPDATED WEEKLY BY THE CONTRACTOR ACCURATE 'AS-BUILT' SET SHALL BE SUPPLIED TO THE ARCHITECT/ENGNIEER AT COMPLETION OF PROJECT.

GUARANTEES:

- A. ALL COMPRESSOR MOTORS ON NEW EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL HAVE A 5 YEARS PRODUCT GUARANTEE FROM DATE OF START-UP.
- B. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN A 1 YEAR FROM DATE OF ACCEPTANCE.
- INDEPENDENT CONTRACTED FIRM SHALL PERFORM TEST AND BALANCE SYSTEMS AND PROVIDE REPORT IN ACCORDANCE WITH FLORIDA ENERGY CODE 410.1.A.ABCD.4 FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS AND FANS. TEST AND BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE 'AIR BALANCE COUNCIL' STANDARDS AND SHALL INCLUDE AIR SIDE OF HYAC SYSTEM INDICATING AIR QUANTITIES FOR ALL EXHAUST AIR DEVICES.

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR		×
NEW FIRE DAMPER'S		X
SMOKE DAMPER'S		×
FIRE RATED ENCLOSURE		×
FIRE RATED ROOF / FLOOR		×
CEILING ASSEMBLY		×
FIRE STOPPING		×
SMOKE CONTROL		×

GENERAL NOTES

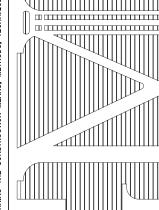
1.- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL JOIST LAYOUT FOR EXACT LOCATION OF DUCTWORK PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION.

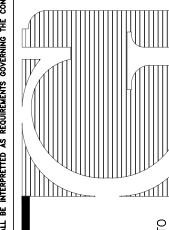
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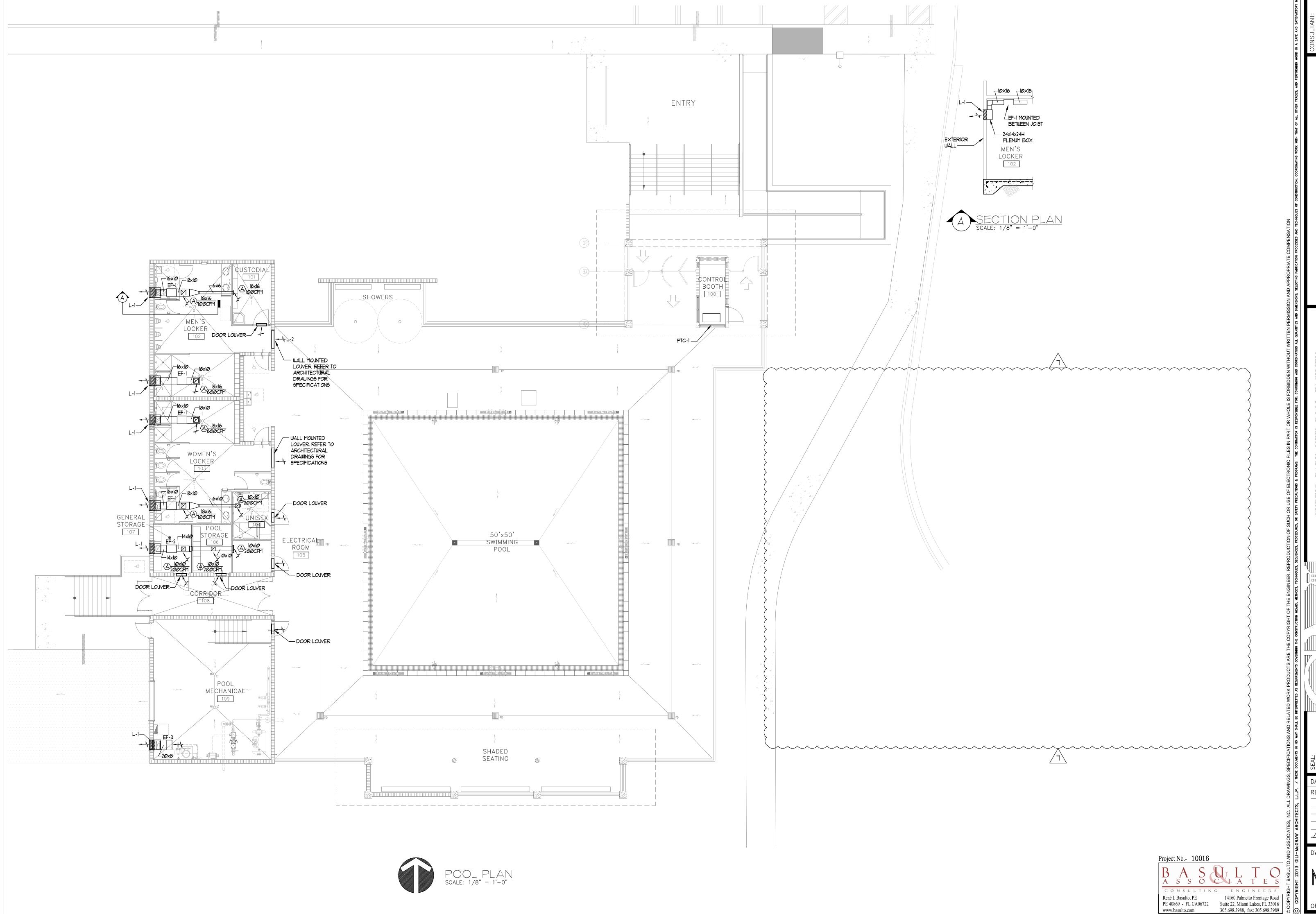
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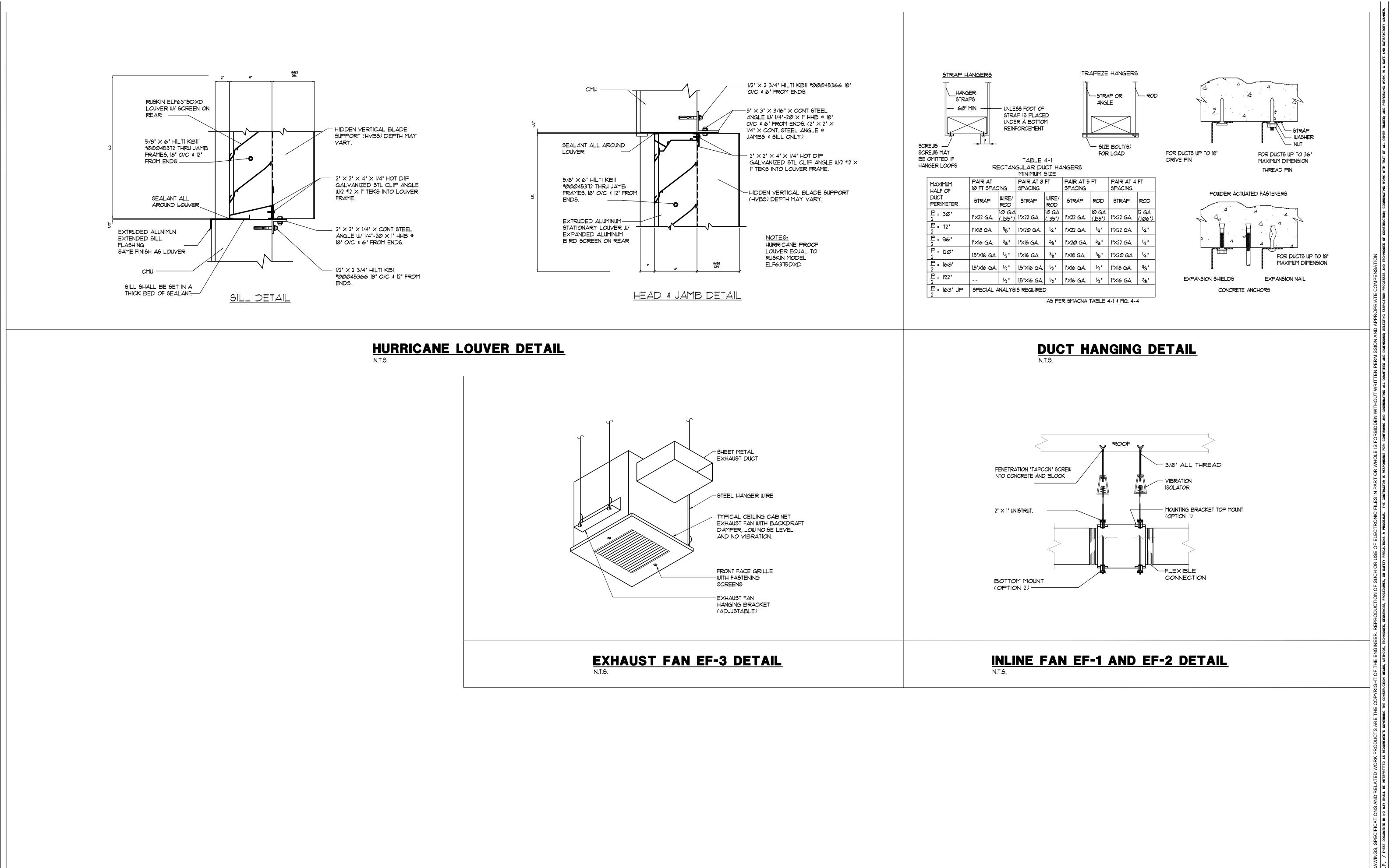
DATE: 10.01.2013 REVISIONS

<u>/\ 12.15.2015</u>



ARCHITECTS, -McGRAW

DATE: 10.01.2013 12.15.2015



René I. Basulto, PE 14160 Palmetto Frontage Road

PE 40869 - FL CA06722 Suite 22, Miami Lakes, FL 33016 www.basulto.com 305.698.3988, fax: 305.698.3989

ARCHITECTS

-McGRAW

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ON ELECTRICAL DRAWINGS.

- A. FOR PURPOSE OF LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH LOCATION OF EQUIPMENT IS SHOWN TO SCALE, THE CONTRACTOR SHALL VERIFY ALL INFORMATION AT THE SITE BEFORE BIDDING THE JOB.
- B. WHEN DRAWINGS, NOTES AND THESE REQUIREMENTS ARE IN CONFLICT, THE MOST STRINGENT CONDITION SHALL APPLY UNLESS OTHERWISE APPROVED BY THE C. THE WORK CONSISTS OF ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT AND
- INSTALLATION REQUIRED FOR THE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS OR CALLED FOR IN THESE REQUIREMENTS. D. FURNISH, INSTALL AND MAINTAIN TEMPORARY ELECTRICAL POWER AND LIGHTING
- REQUIRED FOR ALL TRADES. E. CONNECT ELECTRICAL EQUIPMENT FURNISHED BY OTHER TRADES EVEN IF NOT SHOWN
- 12 CODES AND STANDARDS PERFORM WORK AND FURNISH EQUIPMENT COMPLYING WITH THE FOLLOWING CODES:
- 1) NATIONAL ELECTRICAL CODE (NEC) 2) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- 3) UNDERWRITERS' LABORATORIES (UL)
- 4) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 6) INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
- 1) FLORIDA BUILDING CODE (FBC) 8) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

13 SHOP DRAWINGS

WITHIN 30 DAYS AFTER THE DATE OF THE AWARD OF THE CONTRACT, AND BEFORE ANY MATERIAL OR EQUIPMENT 15 PURCHASED, SUBMIT TO THE ENGINEER FOR APPROVAL, A COMPLETE LIST IN QUINTUPLICATE OF ELECTRICAL MATERIALS, AND EQUIPMENT TO BE INCORPORATED IN THE WORK. INCLUDE CATALOG NUMBER, DIMENSIONS, INTERCONNECTION DIAGRAMS AND INSTALLATION INSTRUCTIONS.

- 1.4 OPERATION AND MAINTENANCE MANUALS
- O & M MAINTENANCE MANUALS MUST CONTAIN BUT NOT LIMITED TO THE FOLLOWING: 1) SYSTEM DESCRIPTION, AND OPERATING AND MAINTENANCE INSTRUCTIONS.
- 2) MANUFACTURER'S NAME AND MODEL NUMBER OF ALL COMPONENTS.
- 3) CONTROL AND WIRING DIAGRAMS WITH SEQUENCE OF OPERATION. 4) LIST OF RECOMMENDED SPARE PARTS.
- 15 AS BUILT DRAWINGS

AFTER FINAL INSPECTION, FURNISH A SET OF REPRODUCIBLE "AS BUILT DRAWINGS" SHOWING DEPTHS AND ROUTING OF CONCEALED ELECTRICAL BELOW GRADE INSTALLATIONS AND ALL VARIATIONS BETWEEN THE ACTUAL WORK AND AS IT WAS SHOWN ON THE CONTRACT DRAWINGS.

- L6 MATERIALS
- FURNISH EQUIPMENT AND MATERIALS THAT ARE NEW AND LATEST DESIGN OF STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH
- B. ALL MATERIALS SHALL BEAR THE LABEL OF UNDERWRITER'S LABORATORY FOR THE
- EQUIPMENT ENCLOSURES SHALL BE NEMA I FOR INDOOR USE, AND NEMA 4X (STAINLESS STEEL) OR 3R AS SHOWN ON DRAWINGS FOR OUTDOOR USE. FURNISH LIGHTING FIXTURES WITH LAMPS AND 10 PERCENT (TWO MINIMUM) SPARE LAMPS
- E. FURNISH FUSIBLE EQUIPMENT WITH FUSES AND 10 PERCENT (THREE MINIMUM) OF SPARE FUSES OF EACH TYPE.
- 1.7 INSTALLATION
- A. INSTALL EQUIPMENT AT THE LOCATIONS SHOWN ON THE DRAWINGS FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
- B. COORDINATE INSTALLATION OF UNDERGROUND DUCTS AND CONDUITS WITH EXISTING UNDERGROUND UTILITIES. FIELD VERIFY ROUTING AND BURIAL DEPTH. DRAIN DUCTS AWAY FROM BUILDINGS TOWARD MANHOLES. LOW POINTS IN DUCT BANK RUNS ARE NOT
- C. INSTALL FLOOR MOUNTED SELF SUPPORTED EQUIPMENT ON 4-INCHES HIGH CONCRETE PADS WITH STEEL REINFORCING, USE REQUIRED BOLTS, ANCHORS, INSERTS AND CONDUIT
- D. MAKE OPENINGS THROUGH WALLS, CEILINGS, ROADWAYS, FLOOR SLABS, ETC. REQUIRED FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT, BUT CUTTING, WELDING, OR OTHER MATERIALS' INSTALLATION ARE NOT BE PERMITTED. WHERE EXISTING WALLS, CEILINGS OR FLOOR SLABS HAVE TO BE CUT, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER BEFORE MAKING SUCH CUTS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE WHILE PROVIDING SUCH OPENINGS AND SHALL PATCH THE SURFACE TO MATCH ADJACENT MATERIALS AND FINISHES.
- NO CONDUITS, SLEEVES, PIPES OR ANY OTHER ITEM SHALL BE EMBEDDED IN CONCRETE ALONG OR THROUGH ANY BEAM, COLUMN, FOOTING, GRADE BEAM, SLAB, WALL OR ANY OTHER STRUCTURAL MEMBER WITHOUT THE PRIOR APPROVAL OF THE
- COORDINATE SHIPPING LENGTHS OF SWITCH GEARS AND MOTOR CONTROL CENTERS. THOSE ITEMS SHALL BE ABLE TO BE REMOVED AND REPLACED IN THE FUTURE THROUGH THE PERMANENT ACCESS PROVIDED IN THE STRUCTURE.
- PROVIDE 36 INCHES WIDE, 3/16 INCHES THICK RUBBER MATS IN THE FRONT AND REAR OF SWITCH GEARS, MOTOR CONTROL CENTERS AND SWITCHBOARDS. MATS TO COMPLY WITH FEDERAL SPECS ZZ-F-416A.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL ENERGIZE, START-UP AND TEST OPERATE ALL THE SYSTEMS AND EQUIPMENT IN THE PRESENCE OF THE ENGINEER. INSULATION RESISTANCE TESTS SHALL BE MADE ON EACH 480 AND 240 VOLT FEEDER WITH A 500 VOLT DC MEGGER. DEFECTS FOUND SHALL BE CORRECTED.

2.0 RACEWAYS

- A. STEEL: HOT DIPPED ZINC COATED, GALVANIZED, THREADED RIGID STEEL CONFORMING TO ANSI C80, AND FED. SPEC WW-C-581. USE THREADED GALYANIZED STEEL FITTINGS. B. EMT: GALYANIZED CONFIMING TO FEDERAL SPECIFICATION WW-C-563A, FITTINGS TO BE STEEL. USE SET SCREW TYPE AT CONCEALED LOCATIONS AND COMPRESSION TYPE AT
- EXPOSED LOCATIONS. C. PLASTIC: RIGID, SCHEDULE 40, 90 DEGREES C., UL RATED, PVC PLASTIC CONFORMING TO UL 651, FED. SPEC. W-C-1094 AND NEMA TC-2. FITTINGS TO CONFORM WITH UL3 514 AND NEMA TC-3.
- 2.2 FLEXIBLE METAL CONDUIT
- LIQUID-TIGHT: FLEXIBLE ZINC COATED CONFORMING TO UL 1 TYPE WITH LIQUID-TIGHT FLEXIBLE PLASTIC SHEATH, CONFORMING TO UL 360 STANDARD. FITTINGS, PER FED. SPEC. W-R-406B AND UL 514.
- 2.3 LOCATION AND USE OF EACH TYPE OF CONDUIT
- A. USE RIGID CONDUIT FOR ABOYE GROUND EXPOSED INSTALLATIONS EXCEPT IN CORROSIVE AREAS WHERE PYC COATED RIGID GALVANIZED STEEL SHALL BE USED. B. USE GALVANIZED THREADED RIGID STEEL CONDUIT AS FOLLOWS:
- WHEREVER SPECIFICALLY CALLED FOR ON DRAWINGS. WHERE RACEWAY ELBOWS FROM DUCT BANKS STUB-UP INCLUDING VERTICLE SECTION THRU SLAB. 3) FOR UNDERGROUND WORK AS SPECIFIED ON DRAWINGS OR GALVANIZED STEEL
- CONDUITS AND FITTINGS WITH TWO COATS OF CARBOLINE'S BITUMASTIC NO. 50 OR
- C. USE PLASTIC CONDUIT AS FOLLOWS:
- WHEN INSTALLED IN POURED CONCRETE SLABS OR WALLS. 2) FOR UNDERGROUND WORK UNDER SLABS.
- 3) IN DUCT BANKS OR, IF SPECIFICALLY CALLED FOR, IN TRENCHES. BACK-FILL TRENCHES WITH STRUCTURAL FILL 90 % COMPACTED (PROCTOR DENSITY) AND RESOD TO ORIGINAL CONDITION.
- D. USE FLEXIBLE METAL CONDUIT (24 TO 60 INCHES LONG) FOR CONNECTIONS TO ROTATING OR VIBRATING EQUIPMENT.

- 4 INSTALLATION
- DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL BENDS, FITTINGS, BOXES, AND SPECIALTIES WHICH MAY BE REQUIRED OR THE EXACT LOCATION OF CONDUITS. EXAMINE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF THE WORK AND PLAN IT ACCORDINGLY, FURNISHING SUCH FITTINGS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. ARRANGE CONDUIT RUNS TO CLEAR BEAMS, PIPES AND OTHER
- OBSTRUCTIONS AND AVOID INTERFERENCES WITH OTHER TRADES WORK, ANY CHANGES FROM LOCATIONS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER. INSTALL RACEWAYS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. INSTALL HORIZONTAL RACEWAYS CLOSE TO CEILING OR CEILING BEAMS, AND ABOVE PIPES AND DUCTS.
- SIZE RACEWAY ACCORDING TO NEC. BUT IN NO CASE SHALL BE LESS THAN INDICATED ON DRAWINGS. MINIMUM SIZE SHALL BE 3/4-INCH, EXCEPT FLEXIBLE CONDUITS TO LIGHT FIXTURES CAN BE 3/8' BUT NOT EXCEEDING SIX FEET LONG.
- D. INSTALL CONDUITS PASSING THROUGH WALLS AND SLABS IN PYC SLEEYES. EXTEND SLEEVES THROUGH FULL CONCRETE THICKNESS AND PROVIDE 1/2- INCH CLEARANCE AROUND CONDUITS TO FACILITATE SEALING.
- E. SEAL ANY OPENING MADE IN SLABS OR WALLS TO PREVENT SMOKE OR FIRE SPREAD AND THE PASSAGE OF WATER USE SEALING COMPOUND APPROVED FOR THE PURPOSE. USE EXPANSION FITTINGS WHEN CONDUITS CROSS STRUCTURAL EXPANSION JOINTS.
- G. EXCEPT WHERE BOXES, PANELS AND OTHER EQUIPMENT HAVE THREADED OPENINGS, MAKE CONDUIT CONNECTIONS AS FOLLOWS: DOUBLE LOCKNUTS, ONE INSIDE AND ONE OUTSIDE.
- PROVIDE MALLEABLE, IRON OR STEEL BUSHING WITH BAKELITE LINER MOLDED AND BONDED INTO THE BUSHING. 3) PLACE GROUNDING BUSHING ON END OF CONDUIT IN ADDITION TO LOCKNUTS.
- 2.5 SUPPORT OF RACEWAY
- A. INSTALL WALL MOUNTED ELECTRICAL EQUIPMENT, WIRING TROUGHS, JUNCTION BOXES AND GROUPS OF TWO OR MORE CONDUITS ON A SYSTEM OF EXTRUDED, GAUGE 12, 1-5/8 INCHES WIDE. ALUMINUM CHANNELS, ATTACH CHANNELS TO WALL WITH STAINLESS STEEL MACHINE BOLTS AND EXPANSION SHIELDS. CHANNELS TO BE SERIES P-1000 WITH COMPATIBLE HARDWARE AND FITTINGS AS MANUFACTURED BY UNISTRUT MFG. CO. OR
- B. FASTEN VERTICAL AND HORIZONTAL RUNS OF RACEWAYS AT INTERVALS OF NOT MORE THAN EIGHT FEET AND WITHIN 3 FEET OF BENDS, OUTLETS AND JUNCTION BOXES. C. SUPPORT SINGLE CONDUITS NOT LARGER THAN 1-1/2 INCHES IN DIAMETER BY MEANS OF TWO-HOLE PIPE STRAPS OR INDIVIDUAL PIPE HANGERS. FOR CONDUITS LARGER THAN
- D. SPACE CONDUITS INSTALLED AGAINST CONCRETE SURFACES NOT LESS THAN 1/4 INCH AWAY FROM THE SURFACES BY CLAMP BACKS OR OTHER APPROVED MEANS. FURNISH HANGER RODS MADE OF GALVANIZED STEEL OF NOT LESS THAN 1/4 INCH IN
- PERFORATED STEEL STRAPPING IS ACCEPTABLE. SUPPORT BRANCH CIRCUIT RACEWAYS INSTALLED ABOVE SUSPENDED CEILING INDEPENDENTLY OF THE CEILING SUPPORT SYSTEM. WHEREVER POSSIBLE, THEY SHALL BE FASTENED TO THE UNDERSIDE OF THE SLAB ABOVE.

DIAMETER WHEN CONCEALED ABOVE A SUSPENDED CEILING, GALVANIZED

3.0 CONDUCTORS (600 VOLTS)

1-1/2 INCHES IN DIAMETER USE INDIVIDUAL PIPE HANGERS.

- MATERIAL
- A. FURNISH CONDUCTORS OF 98 % ANNEALED COPPER, 600 VOLT CLASS B, HEAT AND MOISTURE RESISTANT, THERMOPLASTIC TYPE THHN/THHW (SIZED BY THW RATING), WITH A POLYVINYL CHLORIDE INSULATION RESISTANT TO OIL, GASOLINE AND WEATHER. INSULATION SHALL MEET UL STANDARD 83. B. CONDUCTORS TO BE STRANDED± *8 THROUGH *2 SHALL BE 1 STRAND± *1 THROUGH 4/0, 19 STRAND AND 250 MCM THROUGH 500 MCM, 37 STRAND.
- 3.2 IDENTIFICATION
- A. COLOR CODE POWER CONDUCTORS AS FOLLOWS:
-) 120/208 YOLT SYSTEM: WHITE-NEUTRAL, BLACK-PHASE A, BLUE-PHASE B, RED-PHASE C. 2) 277/480 VOLT SYSTEM: GRAY-NEUTRAL, BROWN-PHASE A, ORANGE-PHASE B, YELLOW-PHASE C. 3) BONDING CONDUCTOR GREEN.
- B. IDENTIFY FEEDERS, BRANCH CIRCUITS AND INSTRUMENTATION AND CONTROL WIRES AT TERMINATIONS, JUNCTION AND PULL BOXES.
- 3.3 INSTALLATION A. DO NOT USE CONDUCTORS SMALLER THAN AUG. #12 FOR POWER AND #14 FOR CONTROL
- UNLESS SPECIFICALLY INDICATED ON DRAWINGS. DO NOT PULL CONDUCTORS INTO CONDUITS UNTIL THE MECHANICAL WORK HAS BEEN
- GROUP AND TIE CONDUCTORS IN PANEL BOARDS, JUNCTION BOXES, PULL BOXES, ETC., FOR A NEAT AND ORDERLY APPEARANCE. D. USE CONNECTORS, TERMINALS AND SPLICES THAT ARE DESIGNED AND APPROVED FOR
- THE SPECIFIC TYPE AND SIZE OF THE CONDUCTORS BEING CONNECTED. E. FIREPROOF FEEDERS WHERE NOT PROTECTED BY CONDUITS LIKE IN MANHOLES, SWITCH GEARS, ETC.

4.0 OUTLET, PULL AND JUNCTION BOXES

- A. OUTLET BOXES IN INDOOR FINISHED WALLS TO BE GALVANIZED STEEL, 4" × 4" × 1-1/2"
- CONFORMING TO FEDERAL SPECIFICATIONS WC-583 AND ANSI-C33.65. B. EXTERIOR OUTLET BOXES, BOXES AND FITTINGS EMBEDDED IN CONCRETE, AND BOXES FOR EXPOSED CONDUIT RUNS SHALL BE CAST OF RUST RESISTING METAL, WITH FULL THREADED HUBS, AND SCREW TYPE RUBBER GASKET COVERS.
- INSTALL BOXES FOR LIGHT SWITCHES LOCATED NEAR DOORS ON THE LOCK SIDE, EVEN WHERE THE SYMBOLS ARE INDICATED ON THE HINGE SIDES. D. PULL AND JUNCTION BOXES SHALL BE OF 12 GAUGE WELDED ALUMINUM WITH HINGED COYER NEMA 12 FOR INDOOR USE AND NEMA 4X FOR OUTDOOR USE, MINIMUM
- DIMENSIONS SHALL BE 12" × 12" × 6". E. IN CORROSIVE AREAS OR WHERE CALLED FOR ON DRAWINGS, FURNISH PULL AND
- JUNCTION BOXES OF 14 GAUGE STAINLESS STEEL. : WHEN SPLICING CONTROL CONDUCTORS IN BOXES USE SCREW TYPE TERMINAL STRIP BLOCKS CLASS 9080 (G) AS MANUFACTURED BY SQUARE D OR EQUAL, IDENTIFY
- EVERY WIRE AT BOTH SIDES AND PROVIDE SPADE TYPE LUGS FOR TERMINATION. PROVIDE PULL AND JUNCTION BOXES WHERE REQUIRED TO REDUCE LENGTH OF CABLE PULL OR REDUCE NUMBER OF ELBOWS BETWEEN OUTLETS.

5.0 SWITCHES AND RECEPTACLES

- A. FURNISH WALL SWITCHES OF THE QUIET AND TOTALLY ENCLOSED TUMBLER TYPE, WITH BODIES OF PHENOLIC COMPOUND. WIRING TERMINALS SHALL BE OF THE SCREW TYPE. NO MORE THAN ONE SWITCH SHALL BE INSTALLED IN A SINGLE-GANG POSITION. SWITCHES SHALL CONFORM TO FEDERAL SPECIFICATIONS WS-5896E, HUBBEL 1221 AND
- 1223, OR APPROVED EQUAL. B. USE 20A, 125 Y, DUPLEX, U-SLOTTED, GROUNDING TYPE RECEPTACLES THAT CONFORM TO FEDERAL SPECIFICATIONS WC-596D, HUBBEL 5362, OR EQUAL.
- C. AMOUNT DUPLEX RECEPTACLES VERTICALLY. BOXES MOUNTED BACK TO BACK ARE NOT BE PERMITTED. GANGED RECEPTACLES AND SWITCHES SHALL HAVE SINGLE MULTI-GANG COVER PLATE.
- D. FURNISH HOSPITAL GRADE GROUND FAULT INTERRUPTER WITH DIFFERENTIAL CURRENT TRANSFORMER, SOLID STATE SENSING CIRCUITRY AND CIRCUIT INTERRUPTER. SENSITIVITY TO BE 5 MA, TRIPPING TIME 1/30TH OF A SECOND. E. WHEN INSTALLING RECEPTACLES IN OUTDOOR LOCATIONS USE CAST-METAL OUTLET
- BOXES WITH GASKET WEATHERPROOF CAST-METAL COVER PLATES AND SPRING-FLAP CAP OVER EACH RECEPTACLE. F. USE STAINLESS STEEL COVER PLATES FOR SWITCHES AND RECEPTACLES EXCEPT IN NON-INDUSTRIAL AREAS SUCH AS OFFICES, REST ROOMS, LABORATORIES, ETC.

6.0 MOTOR DISCONNECT SWITCHES & STARTERS

- A. PROVIDE EACH MOTOR WITH A DISCONNECTING MEANS MEETING THE REQUIREMENTS OF N.E.C. ARTICLE 430. SWITCHES SHALL BE HEAVY DUTY, HORSE POWER RATED, SUITABLE TO BE PADLOCKED IN 'OFF' POSITION AND CONFORM TO FEDERAL SPECS W-5-865, NEMA KSI AND ANSI C33.64. IF FUSES ARE REQUIRED, THEY SHALL BE CURRENT LIMITING
- B. SIZE DISCONNECTS AND STARTERS FOR THE FULL LOAD OF THE CONTROLLED MOTOR THE HORSEPOWER RATINGS INDICATED ON THE DRAWINGS ARE SHOWN FOR THE BENEFIT
- OF THE CONTRACTOR AND DO NOT LIMIT EQUIPMENT SIZE. FOR SINGLE-PHASE FRACTIONAL HORSEPOWER MOTORS, A SINGLE OR DOUBLE-POLE TOGGLE SWITCH WILL BE ACCEPTABLE PROVIDED THE AMPERE RATING OF THE SWITCH IS AT LEAST 125 PERCENT OF MOTOR RATING.
- D. SWITCHES SHALL BE THE QUICK-BREAK TYPE AND DISCONNECT ALL UNGROUNDED
- FOR MOTORS LARGER THAN 1/4 HORSEPOWER, FURNISH STARTERS SPECIFICALLY DESIGNED FOR THE PURPOSE AND HAVING A HORSEPOWER RATING EQUAL TO THE MOTOR CONTROLLED. PROVIDE MOTORS OF 1/8 HORSEPOWER OR LARGER WITH THERMAL-OVERLOAD
- PROTECTION. THE OVERLOAD PROTECTION DEVICE, OF THE MANUAL RESET TYPE AND WITH CONTACTS ON EACH PHASE, SHALL BE PART OF THE STARTER SIZE THE OVERLOAD HEATER ELEMENTS ACCORDING TO THE MOTOR MANUFACTURER'S RECOMMENDATIONS AND BASED ON THE ACTUAL MOTOR NAMEPLATE FULL-LOAD
- PROVIDE EACH MOTOR WITH A SUITABLE CONTROLLER OR DEVICE TO MAKE IT PERFORM AS REQUIRED. AUTOMATIC CONTROL DEVICES SUCH AS THERMOSTATS, FLOAT OR PRESSURE SWITCHES MAY DIRECTLY CONTROL THE START-STOP OF MOTORS UP TO 1/4 HORSEPOWER, PROVIDED THE DEVICES USED ARE DESIGNED FOR THE PURPOSE AND HAVE AN ADEQUATE HORSEPOWER RATING, WHEN THE AUTOMATIC-CONTROL
- DEVICE DOES NOT HAVE SUCH A RATING, A MAGNETIC STARTER SHALL BE USED WITH THE AUTOMATIC CONTROL DEVICE ACTIVATING THE COIL OF THE CONTACTOR PROVIDE 3 POSITION MANUAL-OFF-AUTO SWITCH WHEN MANUAL AND AUTOMATIC CONTROL IS REQUIRED. CONNECT THE SELECTOR SWITCH SO THAT ONLY THE AUTOMATIC DEVICES ARE BY-PASSED WHEN THE SWITCH IS IN THE "MANUAL" POSITION, ALL SAFETY

DEVICES SUCH AS PRESSURE AND TEMPERATURE SWITCHES, MOTOR OVERLOAD AND

- SAFETY SWITCHES SHALL BE ACTIVE IN "MANUAL" AND "AUTOMATIC" POSITIONS. MOTOR CONTROL CIRCUITS SHALL OPERATE AT 120Y GROUNDED, OBTAINED FROM THE LOAD SIDE OF THE MOTOR-DISCONNECT MEANS. IF THE MOTOR CIRCUIT IS MORE THAN 120V TO GROUND, FURNISH A CONTROL TRANSFORMER WITH FUSED PRIMARY AND SECONDARY CIRCUITS. STARTERS FOR MOTORS WITH SPACE HEATERS SHALL HAVE
- CONTROL TRANSFORMERS SIZED FOR THE ADDITIONAL LOAD. FURNISH COMBINATION MOTOR STARTERS OF THE MOLDED CASE, MOTOR CIRCUIT PROTECTOR, CIRCUIT BREAKER TYPE, THREE PHASE, OF THE VOLTAGE AND SIZE AS SHOWN ON THE DRAWINGS BUT NOT SMALLER THAN THE SIZE REQUIRED BY THE CONTROLLED MOTOR, 120 VOLT CONTROL CIRCUIT, 3 THERMAL INTERCHANGEABLE OVERLOAD RELAYS, "HAND-OFF-AUTO" OR "ON-OFF" SWITCH AS REQUIRED BY THE APPLICATION, RED AND GREEN PILOT LIGHTS AND FOUR NORMALLY CLOSED AND NORMALLY OPEN INTERLOCK CONTACTS.
- THE STARTER DISCONNECT SHALL BE OPERABLE BY AN EXTERNAL "ON-OFF" LABELED HANDLE, INTERLOCKED TO PREVENT OPENING THE ENCLOSURE DOOR WHILE THE DISCONNECT IS IN THE 'ON' POSITION EXCEPT WHEN CONSCIOUSLY OPERATING A PERMISSIVE RELEASE DEVICE.
- FURNISH STARTERS MANUFACTURED BY SQUARE D, CLASS 8536, ALLEN BRADLEY BULLETIN NO. 509, OR EQUAL.

7.0 PANEL BOARDS

PROVIDE DEAD FRONT CIRCUIT BREAKER TYPE PANEL BOARDS WITH COPPER BUS AND AS SCHEDULED ON DRAWINGS. EACH PANEL BOARD SHALL BE PROVIDED WITH A SEPARATE GROUND BUS IN ADDITION TO THE NEUTRAL BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. INTERRUPTING CAPACITY OF PANEL AND CIRCUIT BREAKERS SHALL BE 10,000 AMPS MINIMUM FOR 120-240 VOLT CIRCUIT BREAKERS AND 18,000 AMPS MINIMUM FOR 271-480 VOLT CIRCUIT BREAKERS, A TYPEWRITTEN DIRECTORY SHALL CLEARLY IDENTIFY THE LOAD SERVED BY EACH CIRCUIT AND SHALL BE MOUNTED INSIDE THE DOOR IN A METAL FRAME WITH PLASTIC COVER CIRCUIT NUMBERS SHALL BE PERMANENTLY INDICATED ADJACENT TO EACH CIRCUIT BREAKER.

8.0 GROUNDING

- A. INSTALL GROUNDING AS SHOWN ON DRAWINGS, WHERE NOT INDICATED, INSTALL IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. DO NOT USE CONDUCTORS SMALLER THAN SIZE AWG #12.
- INACCESSIBLE CONNECTIONS SHALL BE MADE WITH THE EXOTHERMIC WELDING PROCESS USING EQUIPMENT MANUFACTURED BY BURUNDY OR ERICO PRODUCTS OR EQUAL. ACCESSIBLE CONNECTIONS SHALL BE MADE WITH BURUNDY, MULTIPLE BOLT CONNECTORS
- SPECIFICALLY APPROVED FOR THE APPLICATION. TO ASSURE ELECTRICAL CONTINUITY, INSTALL JUMPERS ACROSS METAL PARTS SEPARATED BY NON-CONDUCTING MATERIALS OR ATTACHED TOGETHER BY HIGH RESISTANCE JOINTS. DO NOT EMBED GROUNDING CABLES DIRECTLY IN CONCRETE. USE SLEEVES WHEN PASSING
- CABLES THROUGH CONCRETE, BARE COPPER CABLES BURIED IN EARTH SHALL BE TINNED. FURNISH GROUND RODS OF COPPER CLAD STEEL, 3/4 INCH IN DIAMETER, 10/ FEET LONG, DRIVEN FULL LENGTH INTO THE EARTH. MAXIMUM RESISTANCE TO GROUND IS LIMITED TO 25 OHMS. ADDITIONAL GROUND RODS SHALL BE DRIVEN IF REQUIRED TO MAINTAIN THIS LEVEL. PARTS TO BE GROUNDED: SWITCH GEAR AND PANEL BOARD FRAMES, FIXTURES AND DEVICES,
- CABLE SHEATHS, NEUTRAL OF TRANSFORMERS, BOXES AND RACEWAYS, MOTOR FRAMES, STREET LIGHTS, NON-CURRENT CARRYING PARTS OF APPLIANCES AND DEVICES, AND ALL OTHER PARTS AND EQUIPMENT AS REQUIRED BY NEC. NEVER US A NEUTRAL WIRE AS GROUNDING MEANS. BOND EQUIPMENT WITH CONDUCTORS INSTALLED IN SAME CIRCUIT RACEWAY. PROVIDE POWER AND LIGHTING CIRCUIT AND 120 YOLT GROUNDING RECEPTACLE WITH A GREEN
- GROUNDING CONDUCTOR OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTOR AND RUNNING IN MAKE BONDING TO EQUIPMENT WITH APPROVED SOLDERLESS CONNECTOR, CONTACT SURFACE SHALL BE UNPAINTED AND THOROUGHLY CLEANED BEFORE CONNECTION IS MADE TO INSURE A
- 9.0 TRANSFORMERS

GOOD METAL CONTACT.

- FURNISH DRY TYPE, THREE OR SINGLE PHASE TRANSFORMERS OF THE SIZE AND VOLTAGE INDICATED ON THE DRAWINGS, WITH FOUR (TWO ABOYE AND TWO BELOW) 2-1/2 % FCBN TAPS, HOUSED IN A DRIP-PROOF ENCLOSURE WITH FRONT ACCESSIBLE WIRING COMPARTMENT AND CONFORMING TO THE APPLICABLE REQUIREMENTS OF ANSI, IEEE, AND NEMA STANDARDS.
- CORE AND COIL ASSEMBLY TO BE VACUUM IMPREGNATED WITH CLASS H INSULATION.
- TEMPERATURE RISE NOT TO EXCEED 115 DEGREE C. TRANSFORMERS SOUND LEVEL NOT TO EXCEED FOLLOWING VALUES: Ø TO 9 KVA, 36 DB± IØ TO 45
- KYA, 42 DAB± 50 TO 100 KYA, 45 DB. BOLT FLOOR MOUNTED TRANSFORMERS TO FLOOR. WHEN WALL MOUNTED, PROVIDE STEEL BRACKET ANGLES AND BOLT TRANSFORMER TO BRACKET. USE NEOPRENE ISOLATION PADS TO ISOLATE
- ADJUST PRIMARY TAPS TO PROVIDE A SECONDARY VOLTAGE WITHIN + 5% OF NOMINAL VOLTAGE.

10.0 DUCT BANKS

- DUCT BANKS OF THE SIZE INDICATED ON DRAWINGS, SHALL CONSIST OF A NUMBER OF INDIVIDUAL PYC DUCTS AS INDICATED, ENCASED IN A REINFORCED CONCRETE
- USE PYC SCHEDULE 40 CONDUITS WITH MOLDED INTERLOCKING SPACERS. CONCRETE TO BE CLASS C, 2500 POUNDS PSI. PROVIDE #12 AWG PULL WIRE IN ALL EMPTY
- SLOPE DUCTS A MINIMUN OF 3 INCHES PER 100 FEET. SLOPE TO BE AWAY FROM BUILDINGS, FROM ONE MANHOLE TO THE NEXT OR BOTH WAYS FROM A HIGH POINT BETWEEN MANHOLES. KEEP THE HIGHEST POINT NOT LESS THAN 24 INCHES BELOW THE FINISHED GRADE.

ELECTRICAL SYMBOL LEGEND

1				
		BOXES & FITTINGS		LIGHTING
		CELLING MOINTED, INNOTICE DOV	$\langle \Delta \rangle$	LIGHTING FIXTURE TYPE. SEE LTG. FIXTURE SCHEDULE THIS SHEET
	\bigcirc	CEILING MOUNTED JUNCTION BOX	O_{2a}	RECESSED, SEMI RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE ON NORMAL CIRCUIT 2 IS CIRCUIT NO± "a" DENOTES SWITCH LEG
	$\vdash \bigcirc$	WALL MOUNTED JUNCTION BOX , 18" A.F.F. OR AS OTHERWISE NOTED.	O _{2a}	
	J	CEILING MOUNTED JUNCTION BOX, 12"X12"X6" DEEP MINIMUM UNLESS OTHERWISE INDICATED FOR DISTRIBUTION OF TELEPHONE/DATA SYSTEM	O	SURFACE OR PENDANT MOUNTED FLUORESCENT FIXTURE. SURFACE OR PENDANT MOUNTED FLUORESCENT FIXTURE WITH EMERGENCY BATTERY / INVERTER.
	PB	PULLBOX, SIZED AS INDICATED OR AS REQUIRED BY N.E.C.	Our	FLUORESCENT RECESSED OR LAY-IN FIXTURE.
			Orm	FLUORESCENT RECESSED OR LAY-IN FIXTURE WITH EMERGENCY BATTERY / INVERTER
		PANELBOARDS	Θ	SURFACE MOUNTED SINGLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED WITH EMERGENCY BATTERY / INVERTER.
-		POWER, LIGHTING OR DISTRIBUTION PANELBOARD. (NEW)	$\overline{\underline{\Theta}}$	WALL MOUNTED EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, 1'-6" AFF. WITH EMERGENCY BATTERY / INVERTER.
		FIRE ALARM	$\overline{\mathfrak{G}}$	SURFACE MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED WITH EMERGENCY BATTERY / INVERTER
	(SD)	CEILING MOUNTED SMOKE DETECTOR.	<u> </u>	WALL MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED. 1'-6" AFF, WITH EMERGENCY BATTERY / INVERTER.
	(DD)	DUCT MOUNTED SMOKE DETECTOR.	⊢ o ──	SURFACE MTD. STRIP FLUORESCENT FIXTURE
	(pc)	EXIT DOOR SECURITY ALARM WITH MONITOR MODULE TIED TO FIRE ALARM	⊢●	SURFACE MTD. STRIP FLUORESCENT FIXTURE, WITH EMERGENCY BATTERY / INVERTER
	\bigoplus	CEILING MOUNTED HEAT DETECTOR.		
	F	MANUAL FIRE ALARM PULL STATION, 48' AFF.		SWITCHES
	SL	FIRE ALARM STROBE LIGHT, A.D.A. TYPE.	S_{κ}	SINGLE POLE TOGGLE SWITCH, 20A., KEY OPERATED 120/277 VAC. MOUNTED 48' AFF.
	F	FIRE ALARM HORN, & STROBE LIGHT 80' AFF. A.D.A. TYPE.		
	FR	SHUT DOWN RELAY.	Sa	SINGLE POLE TOGGLE SWITCH, $20A$., $ 20/277\ VAC$. MOUNTED 48' A.F.F. 'a' SWITCH LEG.
	FAP	FIRE ALARM PANEL	$S_3 S_4$	THREE-WAY AND FOUR WAY TOGGLE SWITCHES 20A, 120/277 VAC. MOUNTED 48' AFF.
	FS	FLOW SWITCH	S _m	MANUAL MOTOR STARTER TOGGLE SWITCH WITH OVERLOADS, 48" AFF.
	TS	TAMPER SWITCH	M	TIAMAL FIOTOR STARTER TOGGLE SWITCH WITH STERLOADS, 45 AJ.
	$H \triangleleft_{V}$	FIRE ALARM HORN, 80° A.F.F.	4 <u> 3₽60</u> 50	SAFETY SWITCH, 3P = NO. OF POLES. 60 = SWITCH SIZE, 50 = FUSE SIZE.
	F	FIRE ALARM SPEAKER & STROBE LIGHT 80" AFF. A.D.A. TYPE		
				MISCELLANEOUS
		MOTORS & CONTROLS	\triangleleft	ADMINISTRATIVE TELEPHONE OUTLET, MTD. 48" AFF.

MOTORS & CONTROLS	\triangleleft	ADMINISTRATIVE TELEPHONE OUTLET, MTD. 48" A
MOTOR, 5 = 5 H.P. OR AS OTHERWISE INDICATED.	CS	COMBINATION CLOCK SPEAKER.
MOTOR MAGNETIC STARTER	HT✓	TELEVISION TAP THRU OUTLET, MTD. 6'-8" AFF.
YAY WITH DUCT HEATER, CONTACTOR AND SAFETY DISCONNECT.	H	CLASSROOM CALL BACK BUTTON.
	H	P.A. PRIVACY SWITCH.
THERMOSTAT	D	TELEPHONE/DATA OUTLET
	MD	MOTION DETECTOR
WIRING	(DC)	DOOR CONTACT
	CR	PROXIMITY CARD READER
HOMERUN TO PANEL "A".I-3-5 ARE CIRCIUT NO'S, TICKS ARE NO. OF CONDUCTORS ()INDICATES GROUND WIRE SIZED AS PER N.E.C. ART.	MAG	MAGNETIC DOOR LOCK
250.	KP	SECURITY SYSTEM KEY PAD

INDICATES A CONDUIT RUN CONCEALED IN A CEILING OR WALL.

INDICATES A CONDUIT RUN CONCEALED IN FLOOR, EMBEDDED IN

CONCRETE OR UNDERGROUND AT 24' BELOW GRADE MINIMUM.

INDICATES A CAPPED CONDUIT. INDICATES A FLEXIBLE METAL CONDUIT CONNECTION. USE LIQUID TIGHT

CONDUIT IN WET, DAMP OR OILY LOCATIONS.

CONDUIT EXPANSION JOINT

₩₩₩ FLEXIBLE EQUIPMENT CONNECTION CONDUIT RUN TURNED DOWN. CONDUIT RUN TURNED UP.

-//// --

RECEPTACLES

120V, I PHASE 60 HZ 20 AMP SINGLE RECEPTACLE 120V.,1 PHASE, 60 HZ., 20 AMP. DUPLEX RECEPTACLE MTD. 18' AFF. SAME AS ABOVE EXCEPT MTD. AT 6' ABOVE COUNTER 120V.,1 PHASE, 60 HZ., 20 AMP. DUAL DUPLEX RECEPTACLE MTD. 18"

DOUBLE DUPLEX RECEPTACLES MOUNTED AS PART OF SURFACE FLOOR OUTLET WITH (1) 120V, I PHASE 60 Hz, 20 AMP DUPLEX RECEPT.

SPECIAL PURPOSE RECEPTACLE.

SECURIT STSTETT RET PAD

WALL MOUNTED CLOSED CIRCUIT TY CAMERA

CEILING MOUNTED CLOSED CIRCUIT TY CAMERA

OCCUPANCY SENSOR

00L

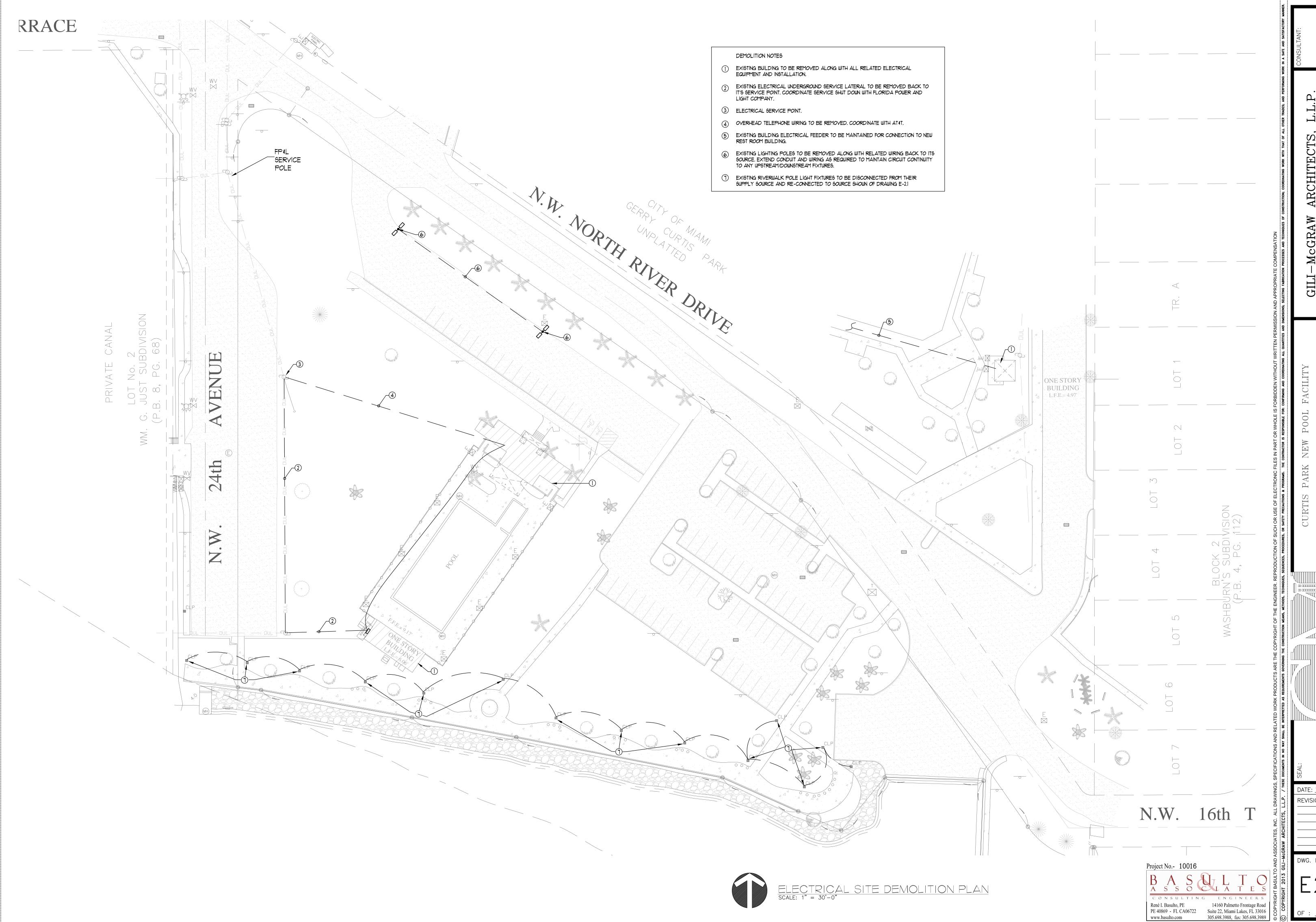
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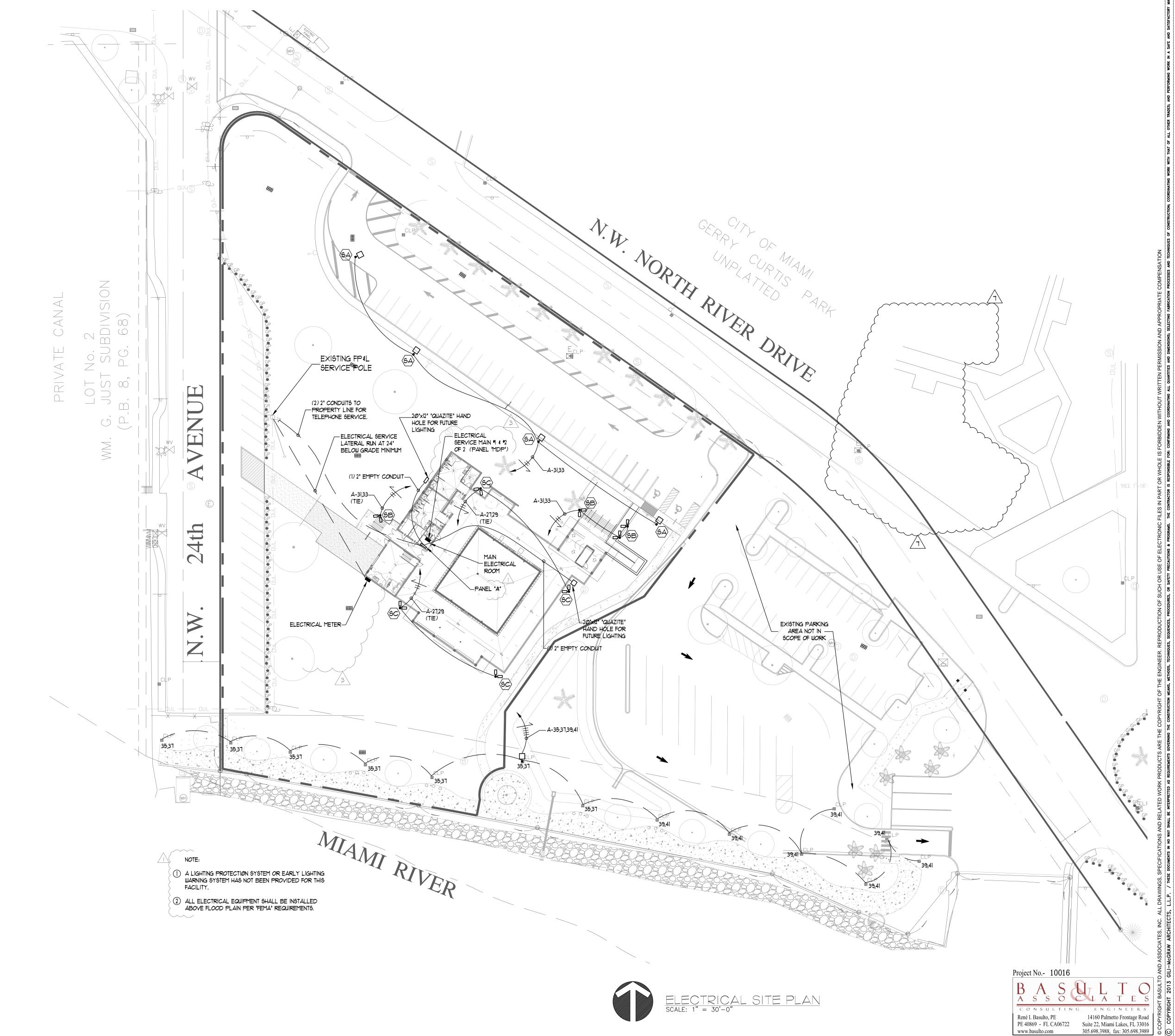
DATE: <u>10.01.2013</u> REVISIONS

14160 Palmetto Frontage Road PE 40869 - FL CA06722 Suite 22, Miami Lakes, FL 33016 305.698.3988, fax: 305.698.3989

Project No.- 10016

René I. Basulto, PE





ARCHITECTS, L.L.P.

TERRACE; MIAMI, FLORIDA 33156

FAX. 305.256.2632

GILI-McGRAW ARCHITECTS, L.L

SB01 SOUTHWEST 99TH TERRACE; MIAMI, FLORID,

TEL. 305.663.1263

LICENSE NUMBER: AAP000492

ITY OF MIAMI 1901 n.w. 24TH AVENUE MIAMI, FLORIDA 33125

POOL

OI.

E: 10.01.2013 RENE I. BASULTO PE 40869

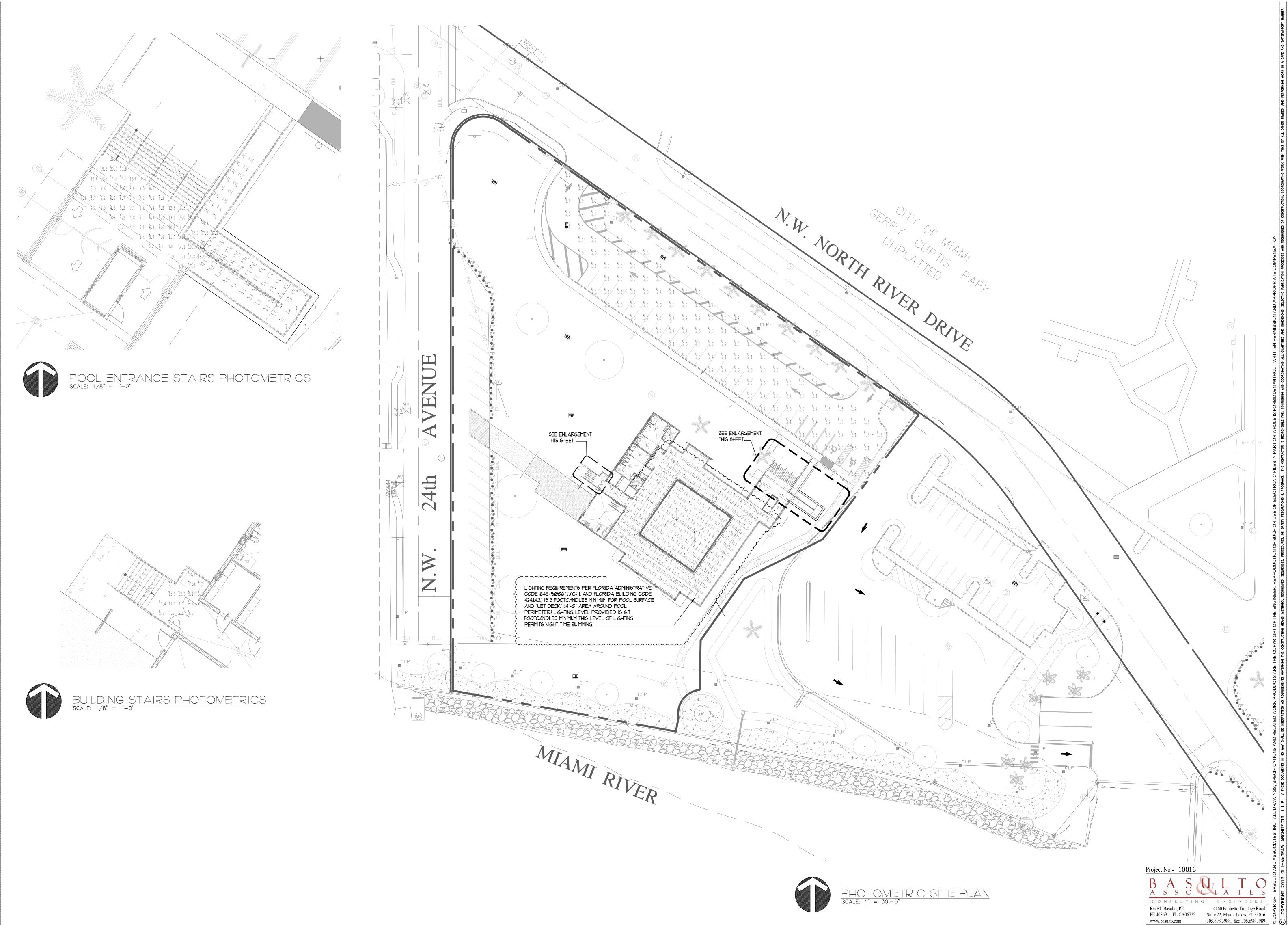
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REVISIONS

03.07.2014

05.08.2014

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FRAW ARCHITECTS, L.L.P.
T 99TH TERRACE; MIAMI, FLORIDA 3318
15.663.1263
FAX. 305.256.2632

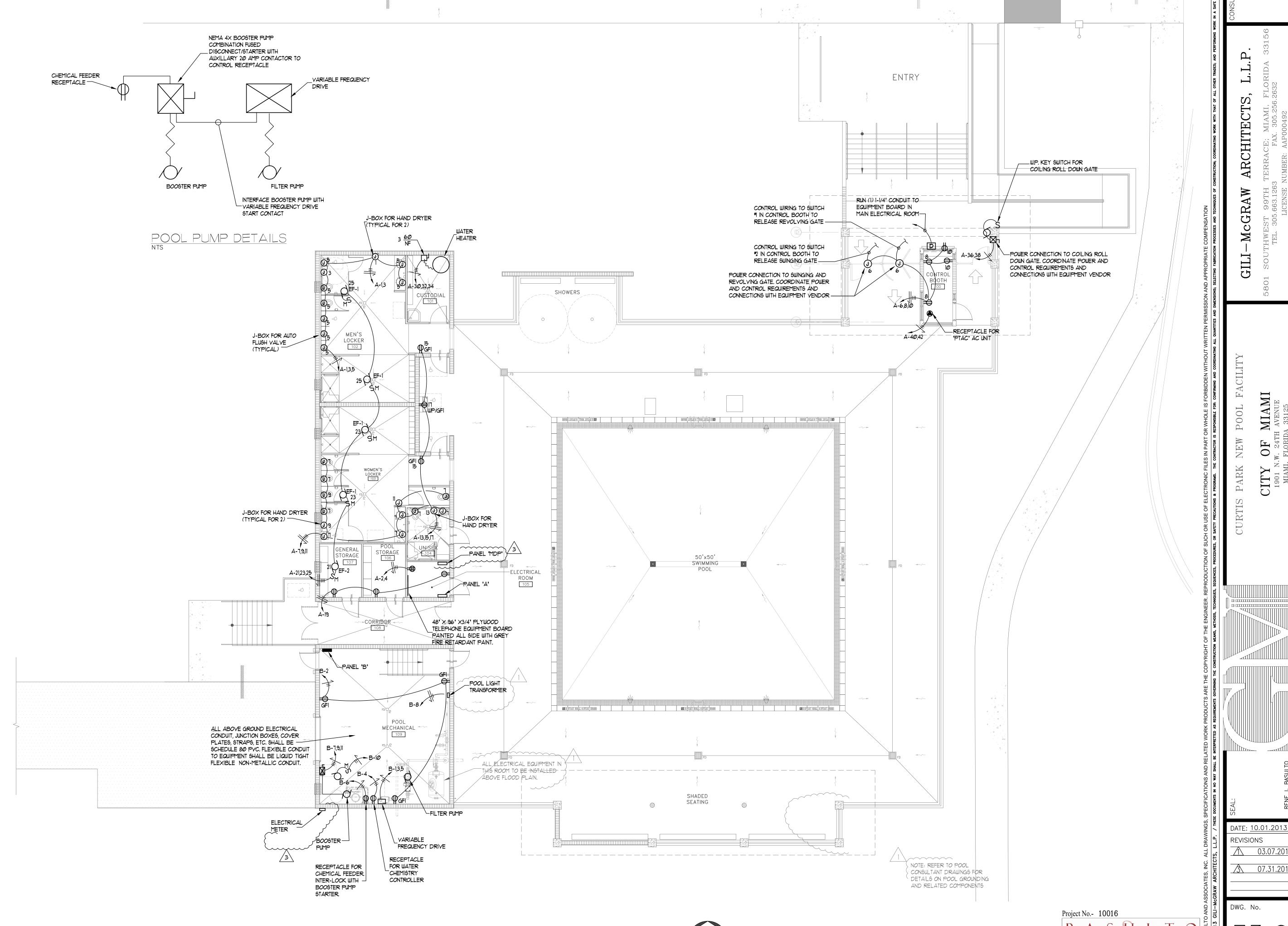
CITY OF MIAMI
1901 N.W. 24TH AVENUE
MIAMI, FLORIDA 33125

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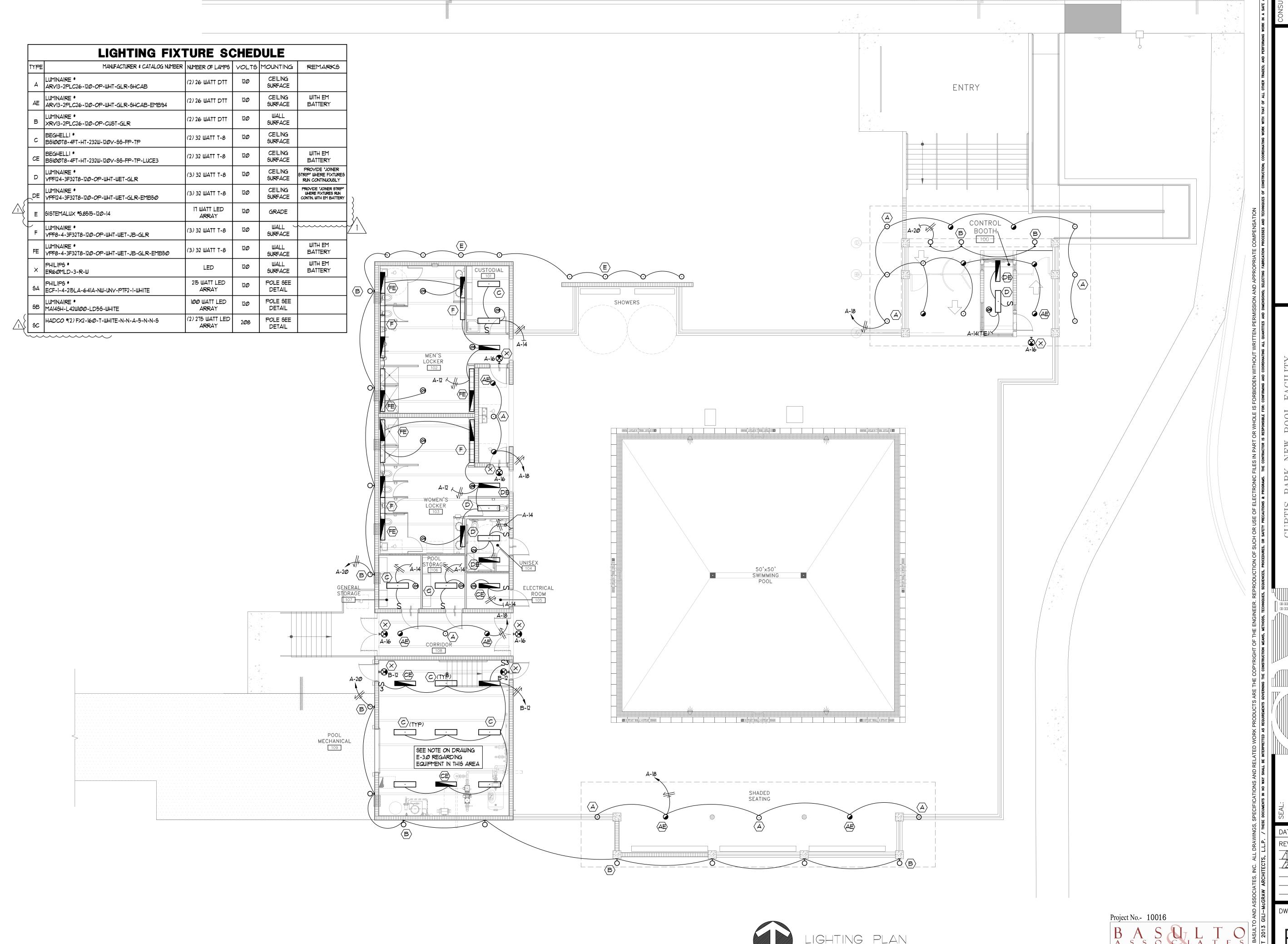


René I. Basulto, PE

14160 Palmetto Frontage Road PE 40869 - FL CA06722 Suite 22, Miami Lakes, FL 33016 www.basulto.com 305.698.3988, fax: 305.698.3989

3 07.31.2014

ARCHITECTS



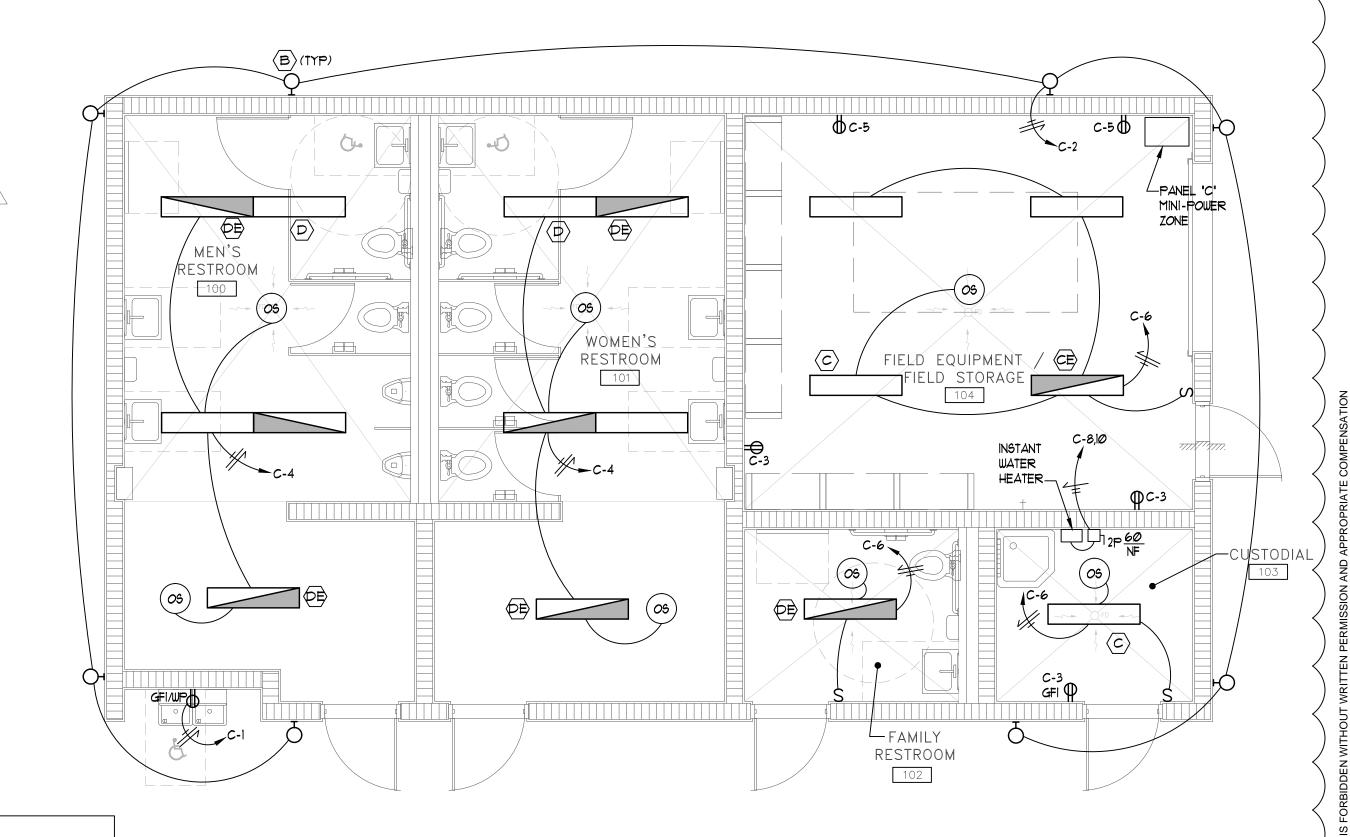
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 14160 Palmetto Frontage Road

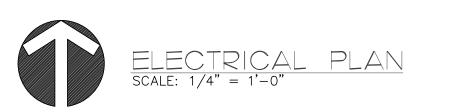
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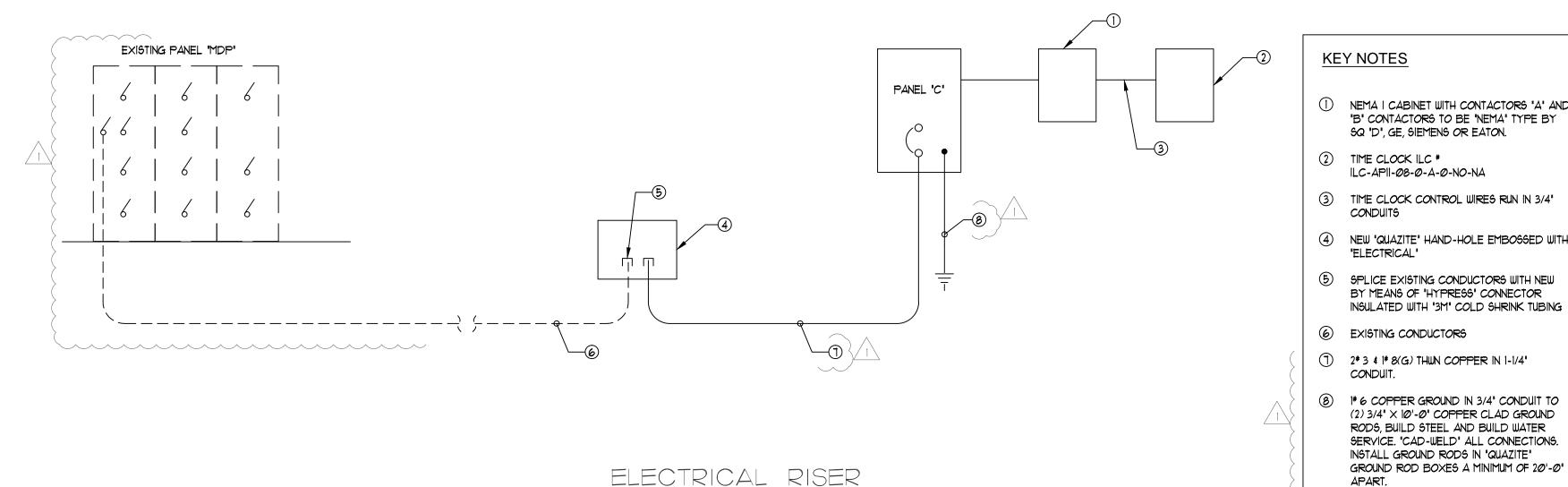
1 VIA 2 POLE 30 AMP LIGHTING CONTACTOR 'A' 2 VIA 2 POLE 30 AMP LIGHTING CONTACTOR "B"



NO LONGER IN SCOPE OF WORK



00 AIC 00 MCE DE MTE	65 <i>,0</i> 80 SURFA			EXIST SQUA 277-4	PANEL: MDP			
		FEEDER SIZE		(AMPS)	CH SIZE	BRAN		<t.< th=""></t.<>
KVA	CONDUIT	WIRE		TRIP	FRAME	NO. OF POLES	DESCRIPTION OF LOAD	5.'
	EXISTING		EXISTING	200	200	3	EXISTING LOAD	1
	EXISTING		EXISTING	200	200	3	EXISTING LOAD	2
	EXISTING		EXISTING	200	200	3	EXISTING LOAD	3
	EXISTING		EXISTING	200	200	3	EXISTING LOAD	4
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	5
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	5
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	1
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	3
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	3
	EXISTING		EXISTING	100	100	3	EXISTING LOAD	0
16 KV	SER	SEE PARTIAL ELECTRICAL RI		100	100	2	NEW PANEL 'C'	1
								2
								3
								4
								5
								6
								7
								3
								э
								0
3 KVA	= 52	EXISTING LOAD:						
6 KVA	= 1	LOAD:						
9 KVA								
S AMP		TOTAL LOAD:						



NEMA I CABINET WITH CONTACTORS "A" AND "B" CONTACTORS TO BE "NEMA" TYPE BY

3 TIME CLOCK CONTROL WIRES RUN IN 3/4" CONDUITS

4) NEW 'QUAZITE' HAND-HOLE EMBOSSED WITH 'ELECTRICAL'

6 EXISTING CONDUCTORS

8 if 6 COPPER GROUND IN 3/4" CONDUIT TO (2) 3/4" X 10"-0" COPPER CLAD GROUND RODS, BUILD STEEL AND BUILD WATER SERVICE. "CAD-WELD" ALL CONNECTIONS. INSTALL GROUND RODS IN "QUAZITE" GROUND ROD BOXES A MINIMUM OF 20'-0"

Project No.- 10016

René I. Basulto, PE 14160 Palmetto Frontage Road PE 40869 - FL CA06722 Suite 22, Miami Lakes, FL 33016 www.basulto.com 305.698.3988, fax: 305.698.3989

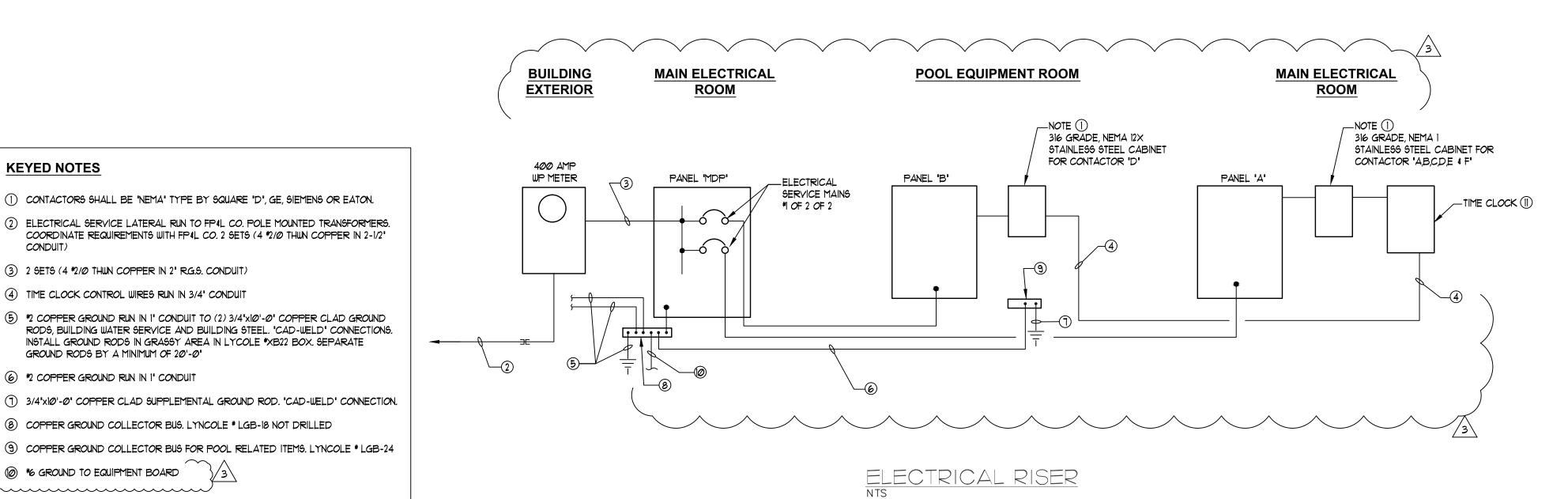
REVISIONS

1 03.07.2014

12.15.2015

ARCHITECTS

3 07.31.2014



LOAD Y-A A + B + C +

SERVES

RECEPTS

RECEPTS

RECEPTS

RECEPTS

1280 EXIT LIGHTS

SPACE SPACE

920 MOTORIZED GATE

SPACE

SPACE

| CONNECTED V-A PER Ø | 15859 | 13392 | 16498 | CONNECTED LOAD:

132 | 112 | 137

1334 SPACE

1500 LIGHTING - RESTROOMS

EXIT LIGHTS SPACE

LIGHTING - RESTROOMS

500 MOTORIZED GATE CONTROL

PA	NEL: MDP	SQUAR 120-20	Œ " I-LINE" 8V, 3¢		NEMA 1 LIS		AMP ML.O. 5,000 A.I.C. ENTRANCE
CKT		BRAN	CH SIZE	(AMPS)	FEEDER SIZ		
CKT. NO.	DESCRIPTION OF LOAD	NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	KVA
1	PANEL A	3	200	200	4 *3/Ø AND 1 *6 (G)	2"	46
2	PANEL B	3	200	200	4 *3/0 AND 1 *6 (G)	2"	43
3	SPACE	3	200	-			
4	SPACE	3	200	-			

PA	NE	L: B	}	SQUARE "D" NQ BOLTED PANEL BO 12 <i>01208</i> V., 3 PH., 4 W. NET	0ARD 1A 12× 316	GRADE S	TAINLESS	STELL		g	10,000 225 A. SURFACE	. M.L.O.
KT.	WIRE	COND	BKR.	SERVES	Δφ	OAD V	/-A	SERVES	BKR.	COND	WIRE	CKT.
1			3 /		3867 720	>		RECEPTS - G.P.	2Ø	3/4'	12	2
3	6	Į"		FILTER PUMP	<	3867 600	>	RECEPTS - CHEM. CNT	2Ø	3/4'	12	4
5			60			\ \ \	3867 600	RECEPTS - CHEM. FEED	2Ø	3/4'	12	6
٦			3 /		433 25Ø	>		POOL LIGHTS	2Ø	3/4'	10	8
9	6	j'		BOOSTER PUMP	<	433 800	>	EXHAUST FAN	2Ø	3/4'	12	10
11			60			<	433 800	ROOM LIGHTS AND EXITS	2Ø	3/4'	12	12
13			2 /		3200			SPACE				14
15	12	3/4"	50	FUTURE HEATER	(3200		SPACE				16
17			2 /			(3200	SPACE				18
19	12	3/4"	50	FUTURE HEATER	3200	>		SPACE SPACE				20
21			2 /		· ·	3200	\	SPACE				22
23	12	3/4"	50	FUTURE HEATER		(3200	SPACE				24
25			2 /		3200	>		SPACE SPACE				26
27	12	3/4"	50	FUTURE HEATER	(3200	>	SPACE				28
29				SPACE		(5PACE				30
31				SPACE		>		SPACE				32
33				SPACE	· ·		\	SPACE SPACE				34
35				5PACE		·		SPACE				36
37				SPACE	1	\		SPACE				38
39				5PACE	 		\	SPACE				40
41				SPACE		·		SPACE				42
				CONNECTED V-A PER Ø	14870	15300	12100	CONNECTED LOAD:	43 K	УД		
				TOTAL AMPS, PER Ø	124	128	111					

PROVIDE GFI TYPE CIRCUIT BREAKER

KEYED NOTES

ONTACTORS SHALL BE "NEMA" TYPE BY SQUARE "D", GE, SIEMENS OR EATON.

INSTALL GROUND RODS IN GRASSY AREA IN LYCOLE *XB22 BOX. SEPARATE

8 COPPER GROUND COLLECTOR BUS. LYNCOLE * LGB-18 NOT DRILLED

3 2 SETS (4 *2/0 THUN COPPER IN 2" R.G.S. CONDUIT)

4 TIME CLOCK CONTROL WIRES RUN IN 3/4' CONDUIT

GROUND RODS BY A MINIMUM OF 20'-0"

6 *2 COPPER GROUND RUN IN 1" CONDUIT

∅ *6 GROUND TO EQUIPMENT BOARD

1) ILC * ILC-AP11-08-0-A-0-NO-NA

CONNECTED LOAD 89 KVA DEMAND LOAD 247 AMPS

② VIA 2 POLE, 30 AMP LIGHTING CONTACTOR CONTROLLED BY TIME CLOCK ZONE "D"

	10,000 225 A	A.I.C. . M.L.O.			PA	NE	L: A	1	SQUARE 'D' NQ BOLTED PANE	L BOARD	
5	URFACE								12 <i>0/20</i> 8V., 3 PH., 4 W.		
D	WIRE	CKT.			CKT.	WIRE	COND.	BKR.	SERVES	Дф	
	12	2	1		1	12	3/4"	2Ø	HAND DRYERS	1500	
	12	4	1		3	12	3/4"	20	HAND DRYERS	102	
	12	6			5	12	3/4"	20	FLUSH VALVES		
•	10	8	①②		٦	12	3/4"	20	FLUSH VALVES	500 360	
	12	10			9	12	3/4"	20	HAND DRYERS		
	12	12	1		11	12	3/4"	20	HAND DRYERS		
		14]		13	12	3/4"	20	HAND DRYERS	15 <i>00</i> 1 <i>0</i> 4	
		16]		15	12	3/4"	20	RECEPTS.		
		18			ΙП	12	3/4"	2Ø	RECEPTS EWC		
		20			19	12	3/4"	2Ø	RECEPTS.	54Ø 1216	
		22			21	12	3/4"	2Ø	EXHAUST FANS		
		24			23	12	3/4"	2Ø	EXHAUST FANS		
		26			25	12	3/4"	2Ø	EXHAUST FANS	1334	
		28			2	27	_		2 /		
		3Ø		2)	29	8	1"	20	POOL DECK LIGHTING		
		32		<u> </u>	31	,		2 /	CITE LICITING	123Ø 5ØØØ	
		34		3	33	6	1"	20	SITE LIGHTING		
		36		3	3 5		1"	2	EXICTING CITE LIGHTING		
		3		٩	3	6		20	EXISTING SITE LIGHTING	92Ø	
		40		3	39		1"	2 /	EVICTING GITE LIGHTING		
		42		9)	41	6		20	EXISTING SITE LIGHTING		
					43				SPACE		
					45				SPACE		
					47				SPACE		
						I	1	· -		<u> </u>	

1 VIA 4 POLE, 30 AMP CONTACTOR CONTROLLED BY TIME CLOCK ZONE "A"

SPACE

SPACE

- 2) VIA 8 POLE, 30 AMP LIGHTING CONTACTOR CONTROLLED BY TIME CLOCK ZONE 'B'
- 3 VIA 10 POLE, 30 AMP LIGHTING CONTACTOR CONTROLLED BY TIME CLOCK ZONE 'C'

TOTAL AMPS. PER Ø

4) VIA 2 POLE, 30 AMP LIGHTING CONTACTOR CONTROLLED BY TIME CLOCK ZONE "E" (5) VIA 2 POLE, 30 AMP LIGHTING CONTACTOR CONTROLLED BY TIME CLOCK ZONE "F"

rojec	t No	10016		
B	A	S		$\sum_{E \in S}$

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10,000 A.I.C. 225 A. M.L.O. SURFACE MTD.

BKR. COND. WIRE CKT.

| 20 | 3/4" | 12 | 2

20 3/4" 12 4

20 3/4" 10 6

| 20 | 3/4" | 10 | 8

20 3/4" 10 10

20 3/4" 12 12

20 3/4" | 10 | 14 20 3/4" 10 16

| 20 | 3/4" | 10 | 18 |(4) 20 3/4 10 20 5

24

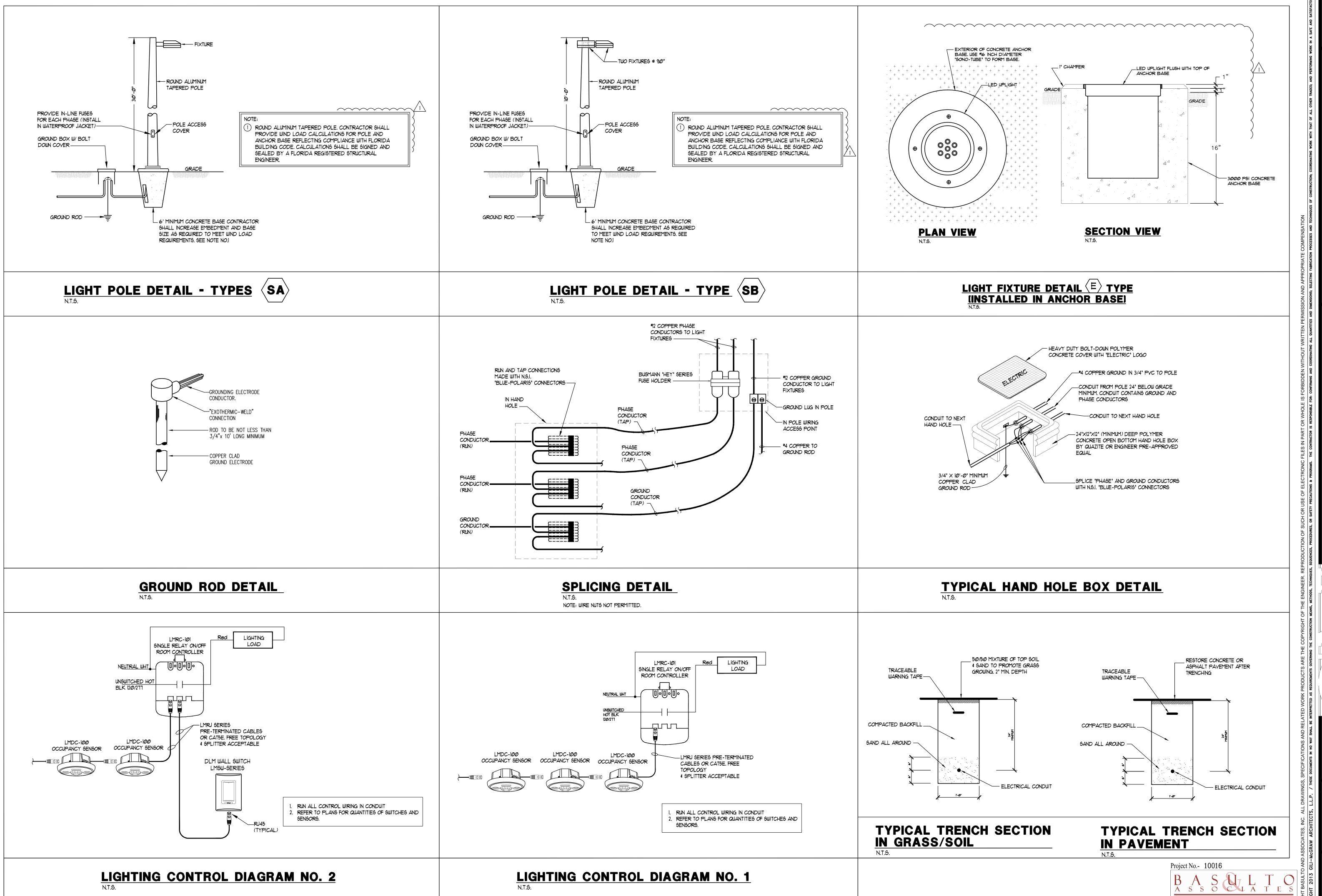
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46 KYA



REVISIONS 03.07.2014

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MBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	CW	HW	WASTE	VENT	ADA/ANSI HEIGHT	MAX WATER US	UAGE COLOR FINISH	REMARKS
/C1	WATER CLOSET	AM. STD.	2234.001.020	3/4"		3"	2"		1.28 gpf	WHITE	MADERA ELONGATED FLUSH VALVE . WATER CLOSET WITH SENSOR ACTIVATED FLUSH VALVE & OPEN FRONT SEAT WITH CHROME STUDS & HINGES. VALVE SHALL BE SLOAN 111-1.28 ES-S, 24 VAC. PROVDED SLOAN #EL-154, 120 VAV/24 VAC TRANSFORMER AS NEEDED.
/C2	WATER CLOSET HANDICAPPED ACCESSIBL	IAM. STD.	3043.001.020	3/4"		3"	2"	17-19" AFF	1.28 GPF	WHITE	MADERA ADA ELONGATED FLUSH VALVE WATER CLOSET WITH SENSOR ACTIVATED FLUSH VALVE & OPEN FRONT SEAT WITH CHROME STUDS & HINGES. VALVE SHALL BE SLOAN 111-1.28 ES-S, 24 VAC. PROVDED SLOAN #EL-154, 120 VAV/24 VAC TRANSFORMER AS NEEDED.
R1 R2	URINAL - WALL MOUNTED	AM. STD.	6590.001.020, WITH SLOAN 186-0.125 ES-S HEU VALVE	3/4"		2"	1-1/2"	17" AFF	0.125 GPF	WHITE	WASHBROOK UNIVERSAL ORIGINAL WALL MOUNTED FIXTURE SUPPORTED BY J.R. SMITH WALL CARRIER. SLOAN SENSOR ACTIVATED FLUSH VALVE WITH 24 VAC. PROVDED SLOAN #EL-154, 120 VAV/24 VAC TRANSFORMER AS NEEDED. UR1 MOUNTED ADA HEIGHT.
l	LAVATORY-UNDER COUNTER	AM. STD.	0496.221.020, WITH SLOAN ETF-600 FAUCET	1/2"	1/2"	2"	1-1/2"	34" TO RIM	1.5 GPM	WHITE	OVALYN UNDER COUNTER 17X-x14x5 1/2. PROVIDE WITH GRID DRAIN. PROVIDE SENSOR ACTIVATED FAUCET WITH BOX MOUNTED 120 VAC/24 VAC TRANSFORMER AS NEEDED AND VANDAL RESISTANT SPRAY HEAD, AND BELOW DECK THERMOSTATIC MIXING VALVE.
2	WALL MOUNTED	AM. STD.	0355.056 WITH SLOAN ETF- 600 FAUCET	1/2"	1/2"	2"	1-1/2"		1.5 GPM	WHITE	WALL MOUNTED "LUCERNE" LAVATORY. PROVIDE GRID DRAIN & WALL CARRIER CONCEALED ARMS. PROVIDE SENSOR ACTIVATED FAUCET WITH BOX MOUNTED 120 VAC/24 VAC TRANSFORMER AS NEEDED AND VANDAL RESISTANT SPRAY HEAD, AND BELOW DECK THERMOSTATIC MIXING VALVE. 4" CENTER EXTRA LEFT HAND HOLE FOR SOAP DISPENSER.
·SK-1	SERVICE SINK - CORNER FLOOR MTD	AM. STD.	7741.000 FLORWELL 8344.112 FAUCET, 7721.038 STRIANER	1/2"	1/2"	3"	2"		2.0 DFU	WHITE	FLORWELL, ENAMELED CAST IRON, CORNER FLOOR MOUTNED SERVICE SINK WITH #7745.811 REMOVABI VINYL RIM GUARD, #7721.038 FLAT GRID DRAIN, AND #8344.112 FAUCUET WITH TOP BRACE, STOPS AND VACUUM BREAKER.
01	FLOOR DRAIN	JR SMITH	DX2310			3"			2.0 DFU	BRASS	FLOOR DRAINS FOR RESTROOMS, GUEST ROOMS, ETC; INSTALL WITH TRAP PRIMER FROM NEARBY COLD WATER LINE AS REQUIRED; SEE DETAILS FOR ADDITIONAL INFORMATION
/HY	HOSE BIBB	ZURN	MODEL 195	3/4"						BRASS	WITH VACCUM BREAKER PER DETAIL
	WALL HYDRANT	ZURN	Z1330-NB	3/4"						NICKEL BRONZE	ENCASED ECOLOTROL "ANTI-SIPHON" WALL HYDRANT FOR MODERATE CLIAMTE. WITH INTEGRAL BACKFLOW PREVENTER, ALL BRONZE INERTIRO PARTS, STAINALESS STEEL BOX AND HINGED COVER AND OPERATING KEY LOCK.
WC1	ELECTRIC WATER COOLER, HI-LOW	ELKAY	VRCGRNTL8C	1/2"	1/2"	2"	1-1/2"			STAINLESS STEEL	ADA COMPLIANT HI-LOW EWC. 8.0 GPH @ 90°F; 2.8 FLA, 115/1/60V; VANDAL RESISTANT
NΗ	INSTANT - TANKLESS WATER HEATER	RHEEM	RTE9	1/2"	1/2"						9KW, 240-1-60V., WALL MOUNTED

FLOOR DRAIN SCHEDULE											
PLAN MARK	DESCRIPTION	MANUFA MODEL	PIPE CONN.	STRAINER STRAINE SIZE MATERIA				ACCESS	ORIES	REMARKS	
FD-1	TOILETS DRAIN	SEE SPEC	EE SPECIFICATIONS 3' SEE SPECS SEE SPECS		PECS	SEE SPECS		TOILETS			
FD-2	MECH. EQUIP. ROOM DRAIN										MECH. ROOM
FD-3	SHOWER STALL DRAIN			•	1		1	l	,		DRAIN

PLU	MBING LEGEND
SYMBOL	DESCRIPTION
SAN	SANITARY PIPING
	SANITARY VENT PIPING
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
— tw —	TEMPERED WATER PIPING
_c _	CONDENSATE DRAIN PIPING
	INDIRECT SAFE WASTE
───	GATE OR BALL VALVE
<u>¬</u> ¬¬¬	CHECK VALVE
<u>l</u>	'P' TRAP
HB HB	HOSE BIBB (HB) OR WALL HYDRANT (WH)
ļa Ā	P & T VALVE
E/	AIR CHAMBER
VTR	VENT THRU ROOF
co	CLEAN OUT
FCO ⊗—	FLUSH FLOOR CLEAN OUT
	FLOOR DRAIN
COOG	CLEAN OUT ON GRADE
FD	FLOOR DRAIN
RD	ROOF DRAIN
V	VENT
	TRAP PRIMER (RESEAL) TO CLOSEST FIXTURE
Р	WATER HAMMER ARRESTOR

GENERAL PLUMBING NOTES

- ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE PLUMBING SYSTEM. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED. FOLLOW FBC 2010.
- THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEADROOM, AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR PROPER EXECUTION OF THE WORK.
- EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER IF DISCREPANCIES, CONFLICTS, INTERFERENCE'S OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING TO THE ARCHITECT/ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
- 4. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
- START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY THEM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE THEIR WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT THEIR EXPENSE. ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
- 6. THIS CONTRACTOR SHALL PAY ALL INSURANCE, FEES, PERMITS, ASSOCIATED DUES, ROYALTIES AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. THE CONTRACTOR SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINANCE AN SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OR ORDINANCES.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010.
- SANITARY WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM FOR PIPES 3" AND LARGER, AND 1/4" PER FOOT MIN. FOR PIPES SMALLER THAN 3".
- 9. PROVIDE CLEANOUTS EVERY 15 FT. MINIMUM AND AT BASE OF EVERY WASTE STACK.
- 10. MATERIALS SHALL BE NEW AND AS FOLLOWS:
- A. SANITARY WASTE, GREASE WASTE AND VENT PIPING: PVC SHEDULE 40, DRAINAGE WASTE AND VENT PIPING (DWV) CONFORMING TO ASTM D-2665, OR NO-HUB CAST IRON CISPI STANDARD 301 ABOVE GROUND AND CAST IRON HUB PLAIN END ASTM A-74 WITH NEOPRENE GASKET UNDERGROUND. PROVIDE PIPE HANGERS ON HORIZONTAL PIPING ABOVE CEILING WITH SPACING NOT TO EXCEED 6 FEET ON PVC PIPING IS PROHIBITTED IN RETURN AIR PLENUM. PROVIDE COPPER, CASTIRON OR CPVC.
- B. WATER PIPING: COPPER TYPE M WITH VIEGA PROPRESS FITTINGS ABOVE GROUND, PYC UNDERGROUND. PROVIDE ADJUSTABLE PIPE HANGERS ON HORIZONTAL OVERHEAD PIPING ABOVE CEILING NOT TO EXCEED 6 FT. ON
- C. CONDENSATE DRAIN PIPING: PYC SCHEDULE 40 ASTM D-2665. PROVIDE 3/4" ARMAFLEX INSULATION TO ALL CONDENSATE DRAIN PIPING. (25/50 FLAME SPREAD AND SMOKE DEVELOPED RATING). PROVIDE PIPE SUPPORTS ON ROOF WITH MAXIMUM SPACING OF 4 FT. ANY CONDENSATE PIPING RUNNING IN AIR PLENUM SHALL BE COPPER "DWY" INSULATED AS INDICATED ABOVE.
- D. PLUMBING FIXTURES SHALL BE AMERICAN STANDARD, KOHLER OR APPROVED EQUAL MANUFACTURER. REFER TO PLUMBING FIXTURE SCHEDULE FOR MODEL NUMBERS AND DETAILS.
- E. FLOOR CLEANOUTS : JOSAM SERIES 56020 OR EQUAL. ALL CLEANOUTS SHALL BE 2-WAY.
- F. WALL CLEANOUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
- G. VALVES: 125 PSIG NIBCO SCOTT, STOCKHAM OR EQUAL. ALL SHUT OFF OR ISOLATION VALVES 2" AND SMALLER ON POTABLE WATER SHALL BE BRONZE BODIED, FULL PORT, TEFLON SEATED, STAINLESS STEEL BALL VALVES. GATE VALVES SHALL NOT BE ACCEPTED.
- H. INSULATE DOMESTIC HOT WATER LINES, HOT WATER RETURN LINES, FITTINGS AND VALVES WITH 1/2" THICK PREFROMED FIBERGLASS INSULATION WITH ALL SERVICE JACKET. INSULATION THICKNESS SHALL BE INCREASED AS REQUIRED BY LOCAL CODES AND ORDINANCES.
- I. HANGERS: AS MANUFACTURED BY "CLEVIS" OF SIZE & TYPE REQUIRED FOR EACH CONDITION.
- . SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH CUT SHEETS & SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
- 2. CONTRACTOR SHALL FURNISH COMPETE OPERATIONAL SYSTEMS PROVIDING ALL NECESSARY MATERIALS, ISOLATION VALVES, ACCESSORIES, APPURTENANCES, EQUIPMENT AND LABOR TO MEET DESIGN INTENT INDICATED ON THESE DRAWINGS AND SPECIFICATIONS.
- 13. PROVIDE FIXTURES AS SPECIFIED. EACH FIXTURE SHALL BE PROVIDED WITH SHUTOFF VALVE.
- 14. DIELECTRIC FITTING SHALL BE USED AT ALL DISSIMILAR METAL CONNECTIONS.
- 15. ALL PLUMBING LINES SHALL BE CAPPED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 16. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND INVERT OF EXITING UTILITIES AND POINTS OF CONNECTION COORDINATING WITH ALL OTHER TRADES BEFORE COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORTED IN WRITING TO THE ARCHITECT / ENGINEERING IMMEDIATELY FRO RESOLUTION.
- 7. PERFORM THE FOLLOWING TEST:
 - PLUMBING CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS REQUIRED BY CODE AND AS INSTRUCTED HEREIN. TEST SHALL BE WITNESSED AND APPROVED BY PROPER AUTHORITIES.
 - WATER LINES SHALL BE TESTED TO A MINIMUM OF 135 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM, BUT NOT LESS THAN I HOUR. STERILIZE ALL WATER LINES WITH A MIXTURE OF 2 POUNDS OF CHLORINATED LIME FOR EACH 1000 GALLONS OF WATER (50 PPM OF AVAILABLE CHLORINE). RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
 - SANITARY LINES SHALL BE TESTED TO A MINIMUM STANDING HEAD OF 15 FEET, AND SHALL BE ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVEL REMAINS CONSTANT.
 - CORRECT ALL DEFECTS DISCLOSED BY ABOVE TEST. COMPLETE SYSTEM, FIXTURES AND EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST AFTER COMPLETION OF INSTALLATION, AND BEFORE FINAL ACCEPTANCE BY
- 18. ALL WORK SHALL BE COORDINATED WITH OTHER TRADER TO AVOID INTERFERENCES WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- 19. ALL PIPING BEING ABANDONED SHALL BE CAPPED BELOW SLAB, IN WALL OR ABOVE CEILING.
- 20. ALL PIPING SHALL BE CONCEALED WITHIN WALLS IN FINISHED AREAS. SAW CUT BLOCK/CONCRETE AS REQUIRED TO
- 21. ANY AND ALL CUTTING OF EXISTING OR NEW WALLS FOR PIPING INSTALLATION SHALL BE SAW CUT. PATCHED AND FINISHED TO MATCH EXISTING CONDITIONS.
- 22. AT PROJECT COMPLETION THE CONTRACTOR SHALL PROVIDE THE OWNER AN "AS-BUILT" SET OF REPRODUCIBLE DRAWINGS SHOWING THE EXACT LOCATION AND ROUTING OF INSTALLED SYSTEMS. THE CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NECESSARY REPAIR OR REPLACEMENT OF SYSTEM COMPONENTS OCCURRING WITHIN WARRANTY PERIOD SHALL PERFORMED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

Project No.- 10016

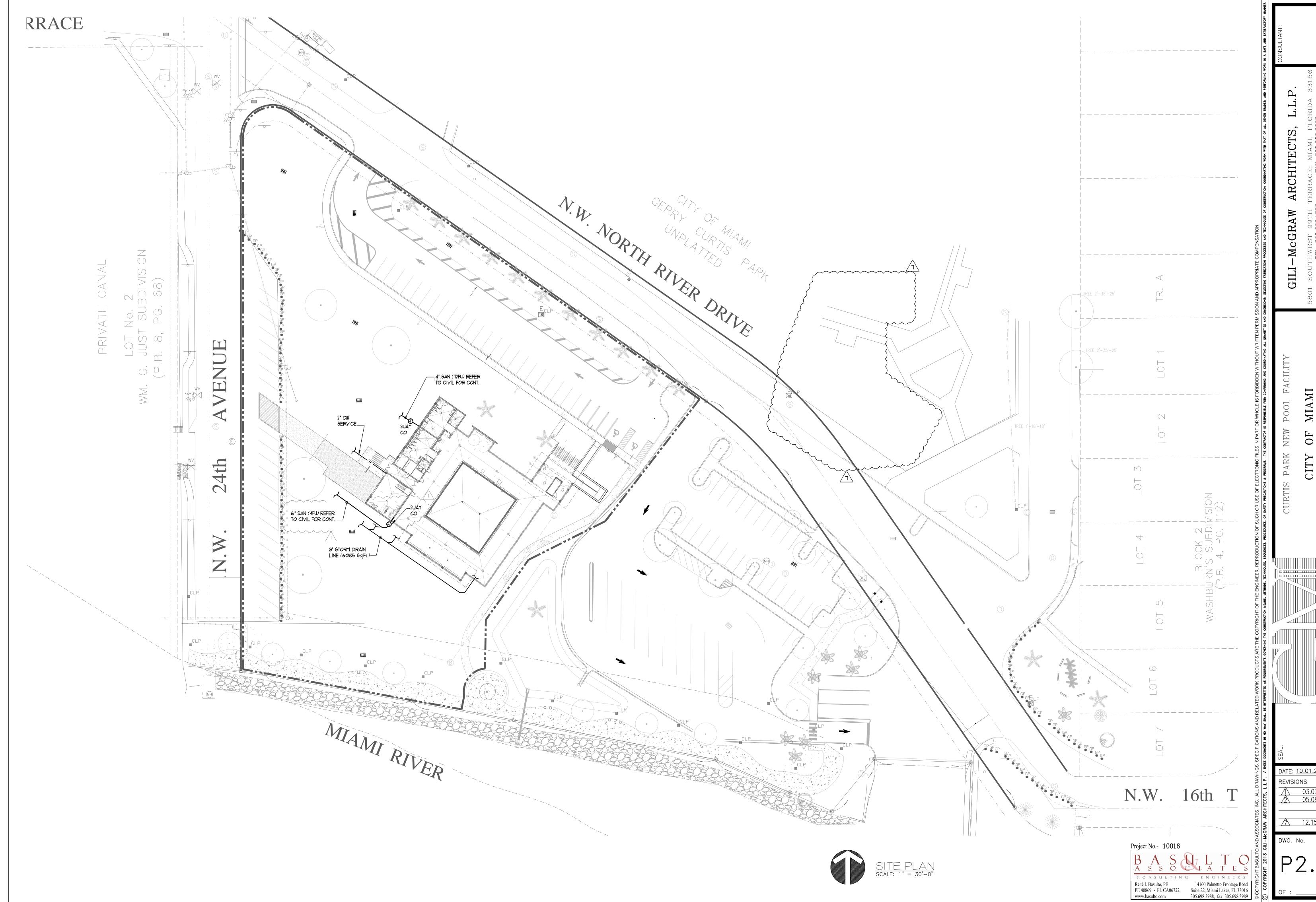
www.basulto.com

René I. Basulto, PE 14160 Palmetto Frontage Road PE 40869 - FL CA06722 Suite 22, Miami Lakes, FL 33016

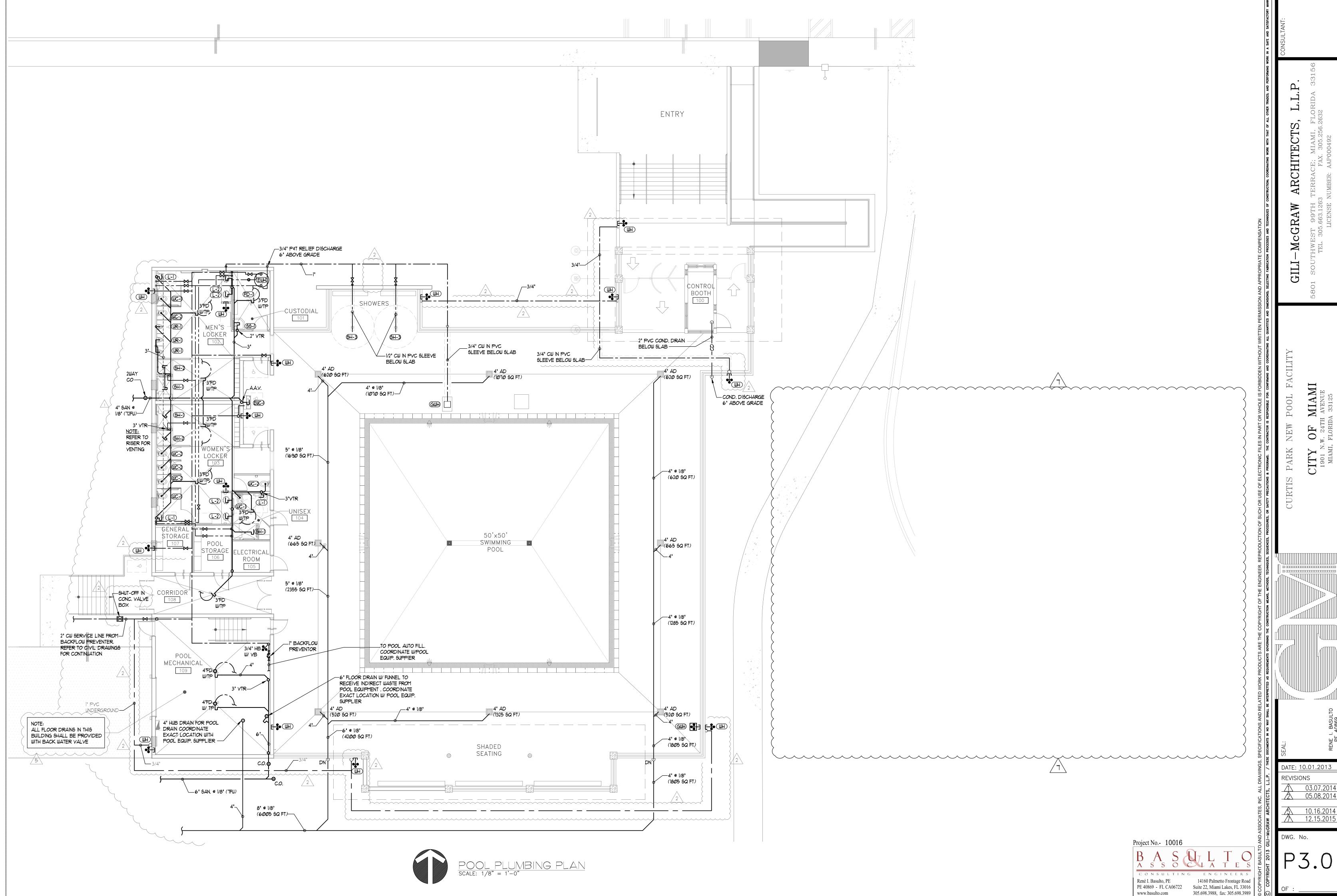
305.698.3988, fax: 305.698.3989

<u> 05.08.2014</u>

DWG. No.



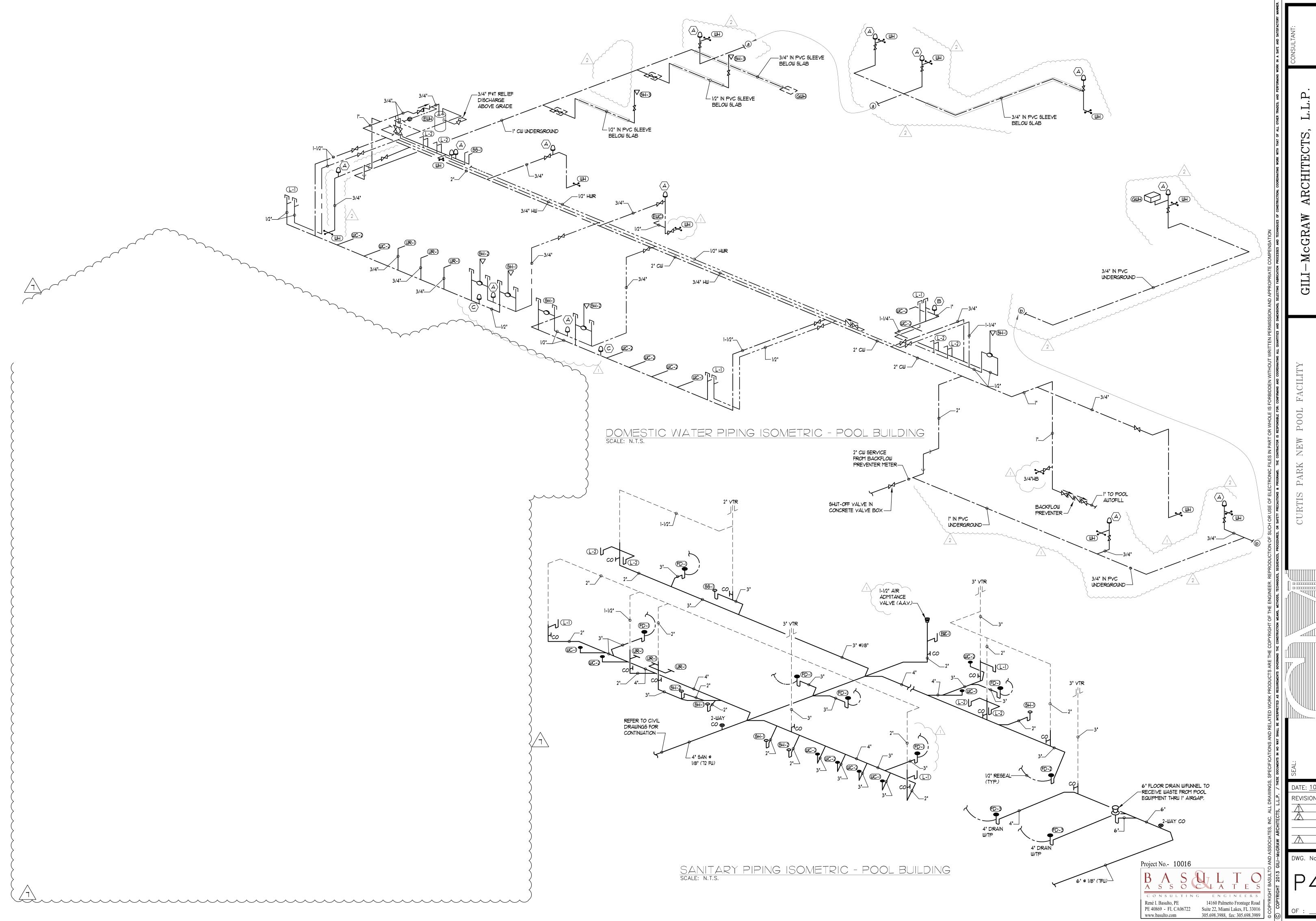
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ARCHITECTS

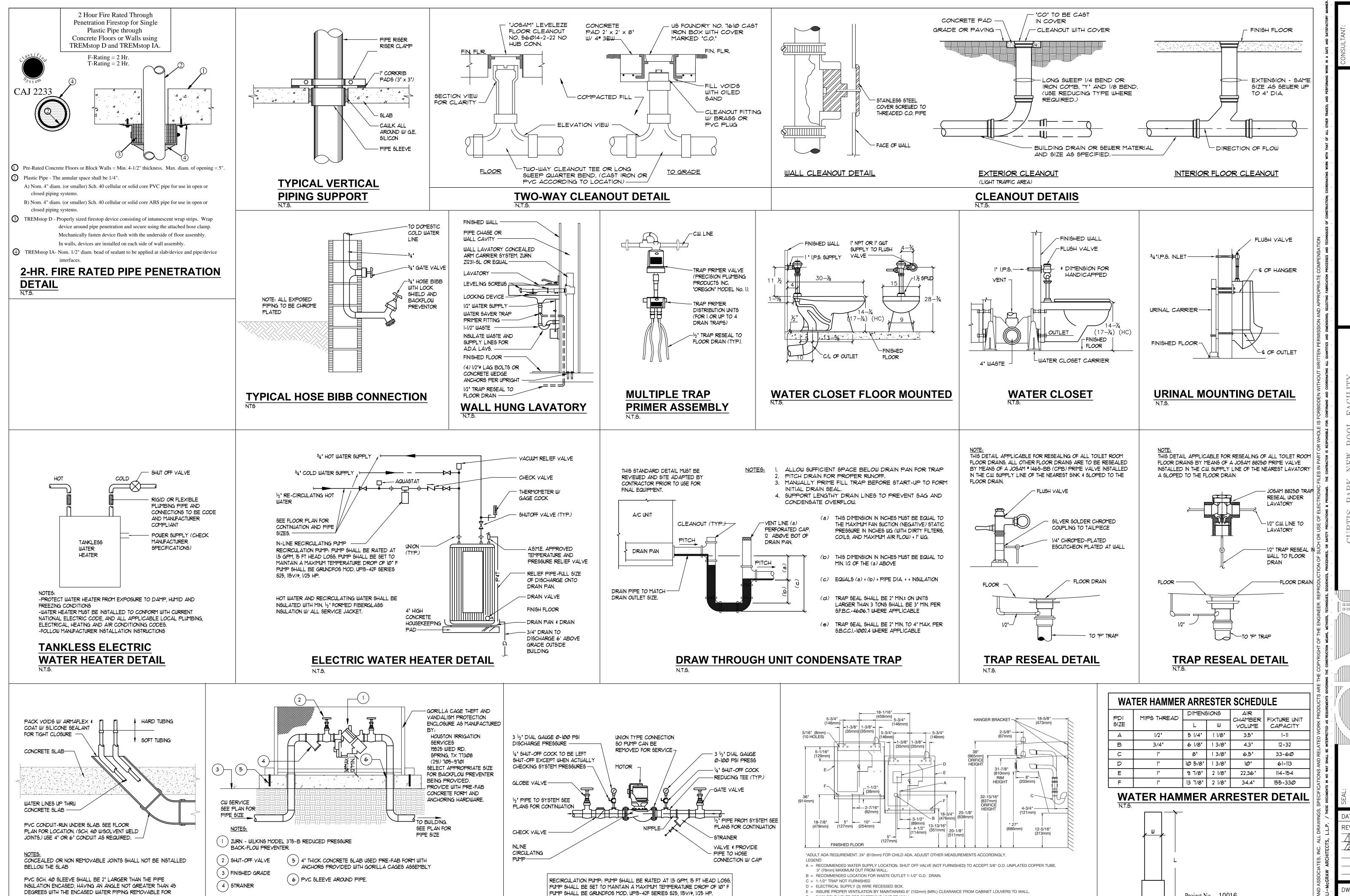
DATE: 10.01.2013 REVISIONS 03.07.2014 05.08.2014

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DATE: 10.01.2013 REVISIONS 03.07.2014 05.08.2014

12.15.2015



IN-LINE CIRCULATING PUMP

BACKFLOW PREVENTER DETAIL

WATER LINE CONDUIT DETAIL

F = 7/16" BOLT HOLES FOR FASTENING UNIT TO WALL.

HI-LO ELECTRICAL WATER COOLER DETAIL

McGRAW ARCHITECTS, L.L.P.

CITY OF MIAMI
1901 N.W. 24TH AVENUE
MIAMI FLORIDA 33125

ARGIIITO

DATE: 10.01.2013

REVISIONS

03.07.2014

05.08.2014

DWG. No.

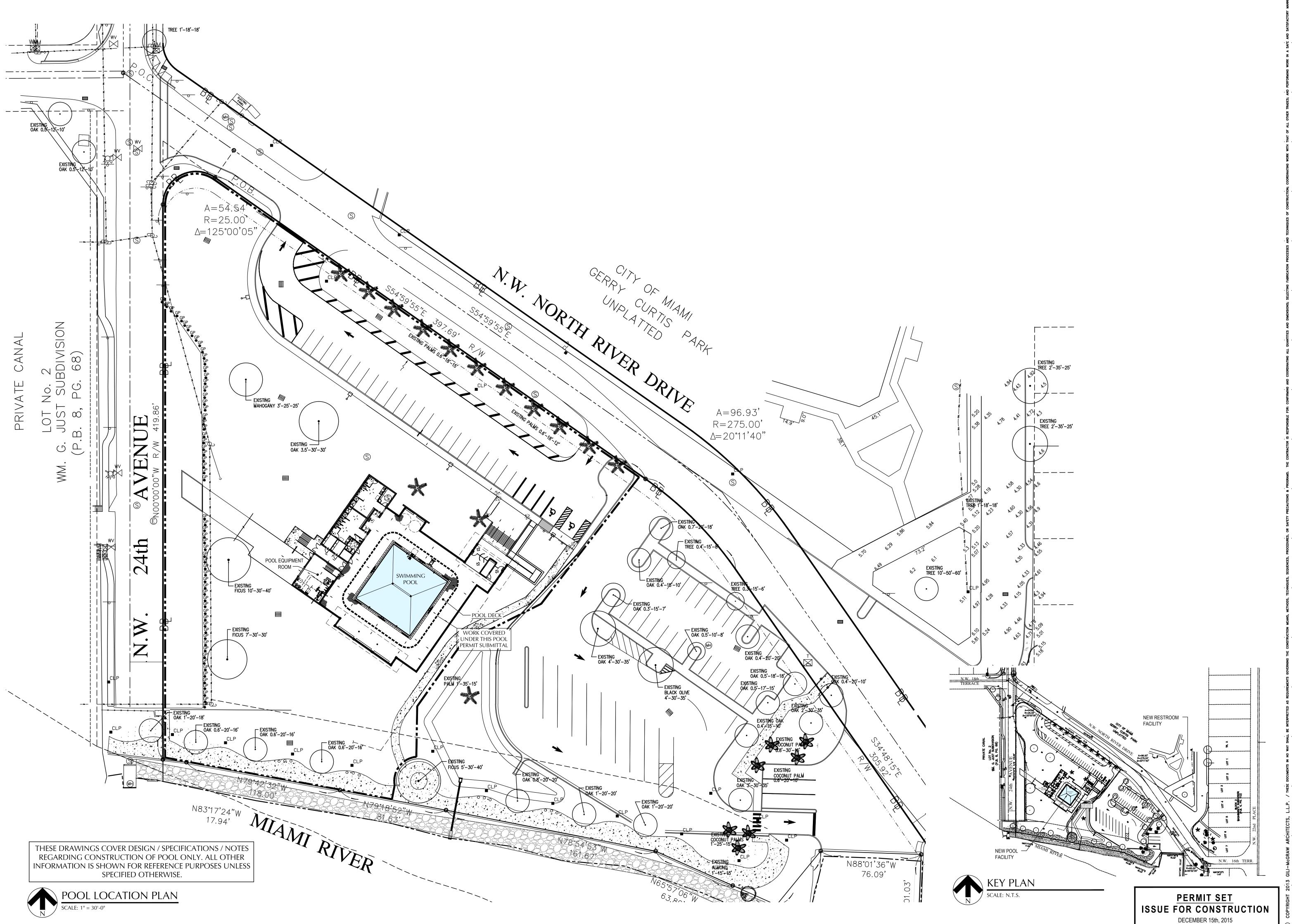
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14160 Palmetto Frontage Road

Suite 22, Miami Lakes, FL 33016 305.698.3988, fax: 305.698.3989

René I. Basulto, PE

PE 40869 - FL CA06722



AOUADYNAMICS DESIGN GROUPING

ARCHITECTS, GILI-McGRAW

T MIAMI TH AVENUE SIDA 33128

DATE: 12-15-2015 REVISIONS

DWG. No. SP-1.01

ADA LIFT GENERAL NOTES

- LIFT MUST BE LOCATED WHERE WATER DEPTH DOES NOT EXCEED 48
- IN RAISED (LOAD) POSITION, CENTERLINE OF SEAT MUST BE LOCATED OVER DECK AND 16 INCHES MINIMUM FROM POOL EDGE. DECK SURFACE BETWEEN CENTERLINE OF SEAT AND POOL EDGE MUST HAVE SLOPE NOT GREATER THAN 1:48.
- ON SIDE OF SEAT OPPOSITE WATER, CLEAR DECK SPACE MUST BE PROVIDED PARALLEL WITH SEAT. SPACE MUST BE 36 INCHES WIDE MINIMUM AND EXTEND FORWARD 48 INCHES MINIMUM FROM A LINE LOCATED 12 INCHES BEHIND REAR EDGE OF SEAT.
- LIFT SEAT MUST STOP AT 16 INCHES MINIMUM TO 19 INCHES MAXIMUM
- MEASURED FROM DECK TO SEAT TOP WHEN IN RAISED POSITION. SEAT WIDTH MUST BE 16 INCHES MINIMUM.

HALF TIMES RATED LOAD.

- FOOTRESTS MUST BE PROVIDED AND MOVE WITH SEAT. FOOTRESTS ARE NOT REQUIRED ON LIFTS PROVIDED IN SPAS. IF PROVIDED, ARMRESTS POSITIONED OPPOSITE WATER MUST BE REMOVABLE OR FOLD CLEAR OF SEAT WHEN SEAT IN RAISED POSITION.
- LIFT MUST BE CAPABLE OF UNASSISTED OPERATION FROM DECK AND WATER LEVELS, ALTHOUGH ASSISTANCE CAN BE PROVIDED IF NEEDED. LIFT SEAT MUST SUBMERGE TO WATER DEPTH OF 18 INCHES MINIMUM
- BELOW STATIONARY WATER LEVEL. SINGLE PERSON LIFTS MUST HAVE MINIMUM WEIGHT CAPACITY OF 300 LBS. AND BE CAPABLE OF SUSTAINING STATIC LOAD AT LEAST ONE AND

THIS POOL HAS BEEN DESIGNED TO ALL APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2014 CHAPTER 4 SECTION 454.1

POOL DECK & POOL FENCE UNDER SEPARATE PERMIT

AREA PL	AN LEGEND
000	HOSE BIBB W/ VACUUM BREAKER
$\sim \Rightarrow$	DIRECTIONAL DECK DRAINAGE ARROW
○ 4 0	SHOWER W/ HOSE BIBB & DECK DRAIN
	JUNCTION BOX & TRANSFORMER
\Rightarrow	120VAC ELECTRICAL OUTLET
	POOL DECK DRAIN
	POOL RULES SIGNAGE
	48" MINIMUM HIGH CONTINUOUS BARRIER

COORDINATION NOTES:

THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE FOLLOWING ISSUES WITH THE GENERAL CONTRACTOR:

- UNLESS THIS FACILITY IS APPROVED FOR NIGHT SWIMMING, THE OPERATOR SHALL POST A SIGN IN THE POOL AREA AT DUSK OR EARLIER THAT "NIGHT SWIMMING IS PROHIBITED"
- 2% DECK SLOPE DRAINAGE OF DECK
- SHOWERS & HOSE BIBBS CITY WATER SUPPLY TO COLLECTOR TANKS WASTE WATER REMOVAL
- FROM EQUIPMENT ROOM
- SLIP RESISTANT RESTROOM TILE & FLOOR DRAIN
- FAILURE TO COORDINATE THESE ISSUES CAN RESULT IN SIGNIFICANT DEPARTMENT OF HEALTH PENALTIES UPON COMPLETION OF THE PROJECT.

NOTES:

- STORAGE OF CHEMICALS SHALL BE LOCATED IN AN ENCLOSED LOCKABLE AREA TO PREVENT UNAUTHORIZED ACCESS.
- ALL POOL SURFACES SHALL HAVE A SMOOTH LIKE SLIP RESISTANT
- ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED CONTRACTORS AND IN STRICT ACCORDANCE WITH THE NATIONAL
- ELECTRICAL CODE 2008. ELECTRICAL EQUIPMENT WIRING AND INSTALLATION INCLUDING THE GROUNDING OF POOL COMPONENTS TO CONFORM WITH THE NATIONAL
- FIRE PROTECTION ASSOCIATION 70, NATIONAL ELECTRICAL CODE (NEC), 2008 AND WITH APPLICABLE LOCAL CODES.
- ALL POOL PIPING SHALL BE PVC PW SCHEDULE 40 NON-THREADED NSF APPROVED. ALL PIPE SHALL DISPLAY THE NSF-PW LOGO.
- DEPTH MARKERS SHALL INDICATE THE DEPTH AT NORMAL OPERATING WATER LEVEL, WITHIN 3 INCHES, WHEN MEASURED 3 FEET FROM THE WALL OF THE POOL. SYMMETRICAL POOL DESIGNS WITH THE DEEP POINT AT THE CENTER, MAY BE ALLOWED TO DISPLAY A DUAL MARKING SYSTEM WHICH INDICATES THE DEPTH AT THE WALL AND THE DEEP POINT. DEPTH MARKERS SHALL BE LOCATED ON BOTH SIDES OF THE
- THE MINIMUM DEPTH SHALL BE 3 FEET AT THE SHALLOW END
- POOL RESTROOM FACILITIES SHALL BE LOCATED WITHIN A 200 FOOT WALKING DISTANCE OF THE POOL.

RESTROOM FACILITIES REQUIREMENTS:

- THE FLOORS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NONABSORBENT MATERIALS AND SHALL HAVE A SMOOTH SLIP RESISTANT FINISH AND THE FLOORS SHALL SLOPE TO A FLOOR DRAIN AT LEAST 3 INCHES IN DIAMETER.
- 10. EACH SEX SHALL BE LABELED ON THEIR RESPECTIVE DOORS.
- DIRECT ACCESS FROM THE POOL OR THE SPA DECK TO THE RESTROOM FACILITIES IS REQUIRED.
- 12. WALLS IN RESTROOM FACILITIES SHALL BE COVED.
- 13. ONE DIAPER CHANGING TABLE SHALL BE PROVIDED AT EACH RESTROOM

	MEN"	S RESTR	OOM	<u>WOMEN'S</u>	RESTROOM					
	URINALS	WC	LAVATORY	WC	LAVATORY					
REQUIRED	1	1	1	1	1					
PROVIDED	3	2	3	4	3					
POOL AREA REOUIREMENTS:										

14. ALL DECKS SHALL SLOPE AWAY FROM THE POOL 2%.

FOR NIGHT SWIMMING.

- 15. ALL DECK SURFACES SHALL HAVE A SMOOTH SLIP RESISTANT FINISH.
- 16. 3/4" HOSE BIBBS W/ VACUUM BREAKERS SHALL BE LOCATED AROUND THE POOL DECK FOR CLEANING.
- 17. A RINSE SHOWER SHALL BE LOCATED WITHIN 20 FEET OF THE POOL.
- 18. ALL WALKWAYS BETWEEN THE POOL AND SANITARY FACILITIES SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NON-ABSORBENT MATERIAL FOR THE FIRST FIFTEEN FEET AND SHALL HAVE A SLIP RESISTANT SURFACE FINISH.
- 19. IF SANITARY FACILITIES ARE NOT VISIBLE FROM THE DECK, A SIGN OR SIGNS INDICATING THE DIRECTION TO THE RESTROOMS SHALL BE POSTED ON THE POOL DECK.
- 20. POOL WET DECKS LIGHTING PROVIDES FOR USE DURING DAYLIGHT HOURS ONLY. FOR NIGHT USE, PLANS MUST BE SUBMITTED TO THE LOCAL BOARD OF HEALTH ENGINEERING DEPARTMENT, WITH ALL REQUIREMENTS PER CHAPTER 64E-9 FLORIDA ADMINISTRATIVE CODE
- FOR NIGHT SWIMMING, OVERHEAD LIGHTING PROVIDES FOR A MINIMUM OF 3 FOOT CANDLES OF ILLUMINATION AT THE WATER AND DECK LEVEL.
- 22. DISTRIBUTION OF FOOD OR DRINK WITHIN 12 FEET OF THE POOL WATERS EDGE IS PROHIBITED.
- 23. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10 FEET OF THE
- 24. MINIMUM DECK WIDTH SHALL NOT BE LESS THAN 4 FOOT WIDE. WHEN THE COPING IS RAISED ABOVE THE DECK, THE CLEARANCE SHALL BE MEASURED FROM THE BACK OF THE COPING, HANDRAIL OR LADDER.
- 25. ALL PUBLIC POOLS SHALL BE SURROUNDED BY A MINIMUM 48 INCH HIGH FENCE. THE FENCE SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE POOL AREA THAT IS NOT OTHERWISE BLOCKED OR OBSTRUCTED BY ADJACENT BUILDINGS OR STRUCTURES AND SHALL ADJOIN WITH ITSELF OR ABUT TO THE ADJACENT MEMBERS. ACCESS THROUGH THE BARRIER FROM DWELLING UNITS, SUCH AS HOMES, APARTMENTS, MOTEL ROOMS AND HOTEL ROOMS, SHALL BE THROUGH SELF-CLOSING SELF-LATCHING LOCKABLE GATES OF 48 INCH MINIMAL HEIGHT WITH THE LATCH LOCATED A MINIMUM OF 54 INCHES FROM THE BOTTOM OF THE GATE OR AT LEAST 3 INCHES BELOW THE TOP OF THE GATE ON THE POOL SIDE. IF THE SELF-CLOSING, SELF LATCHING GATE ALSO SELF-LOCKING AND IS OPERATED BY A KEY LOCK, ELECTRONIC OPENER OR INTEGRAL COMBINATION LOCK, THEN THE OPERABLE PARTS OF SUCH LOCKS OR OPENERS SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AREA. A LATCHED, LOCKABLE GATE SHALL BE PLACED IN THE FENCE WITHIN TEN FEET OF THE CLOSEST POINT BETWEEN THE POOL AND THE EQUIPMENT AREA FOR SERVICE ACCESS.
- 26. A SIGN SHALL BE POSTED IN THE POOL AREA INDICATING THE DIRECTION TO THE POOL RESTROOMS.

A "POOL CLOSED" SIGN MUST BE CONSPICUOUSLY PLACED NEAR THE ENTRANCE TO EACH BATHING UNIT. THIS SIGN SHALL BE PLACED EACH DAY, NO LATER THAN ONE HALF (1/2) HOUR BEFORE SUNSET AND SHALL NOT BE REMOVED EARLIER THAN ONE HALF (1/2) HOUR AFTER SUNRISE. THE LETTERING MUST BE A MINIMUM OF 4 INCHES HIGH, WITH CONTRASTING BACKGROUND COLOR OF THE SIGN, STATING: POOL CLOSED.



PERMIT SET ISSUE FOR CONSTRUCTION DECEMBER 15th, 2015

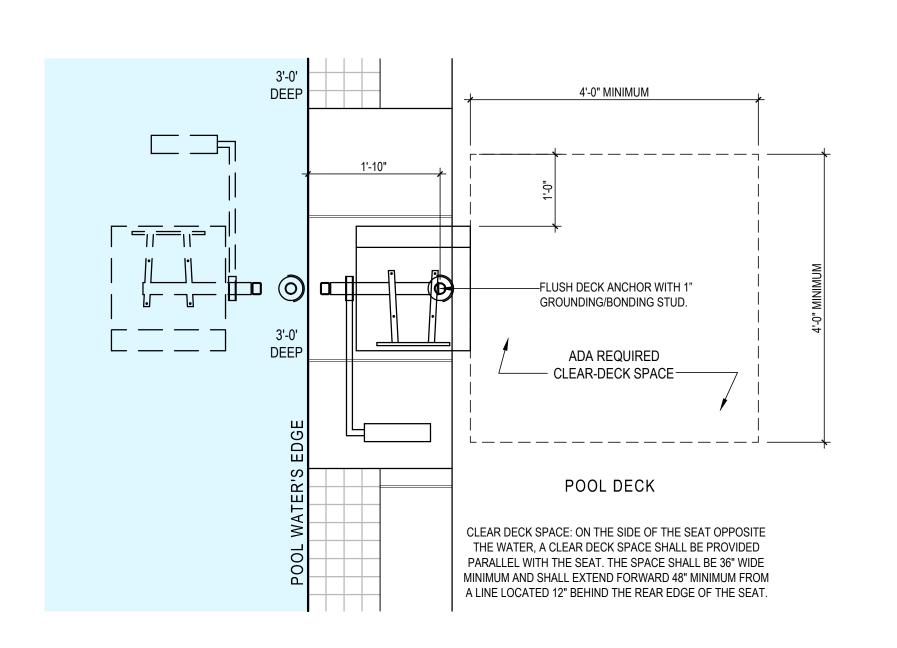
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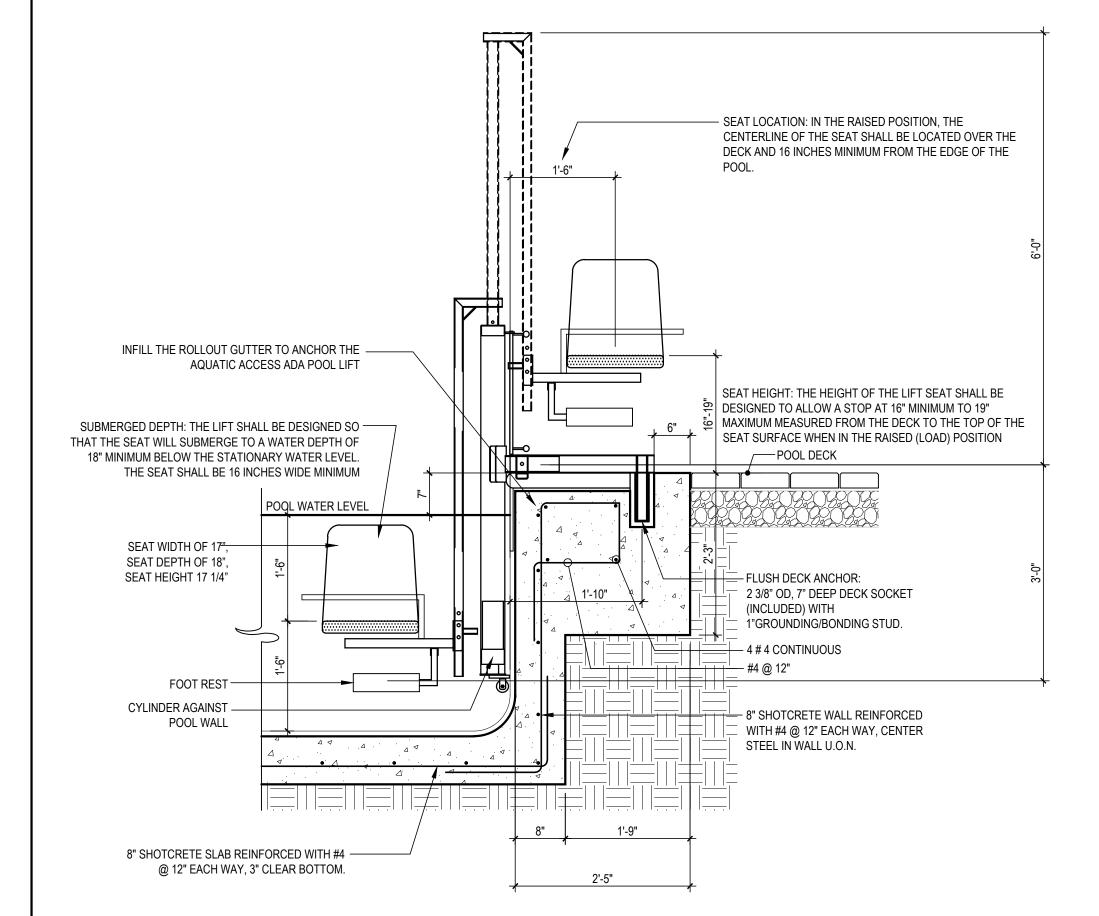
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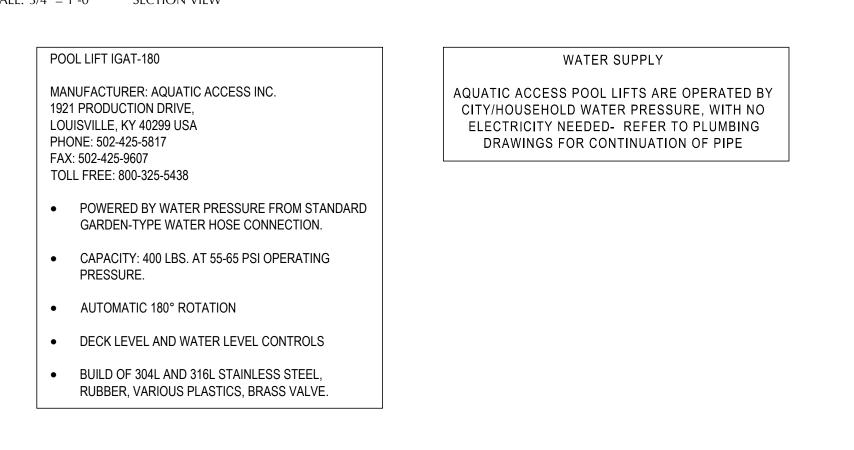
REVISIONS

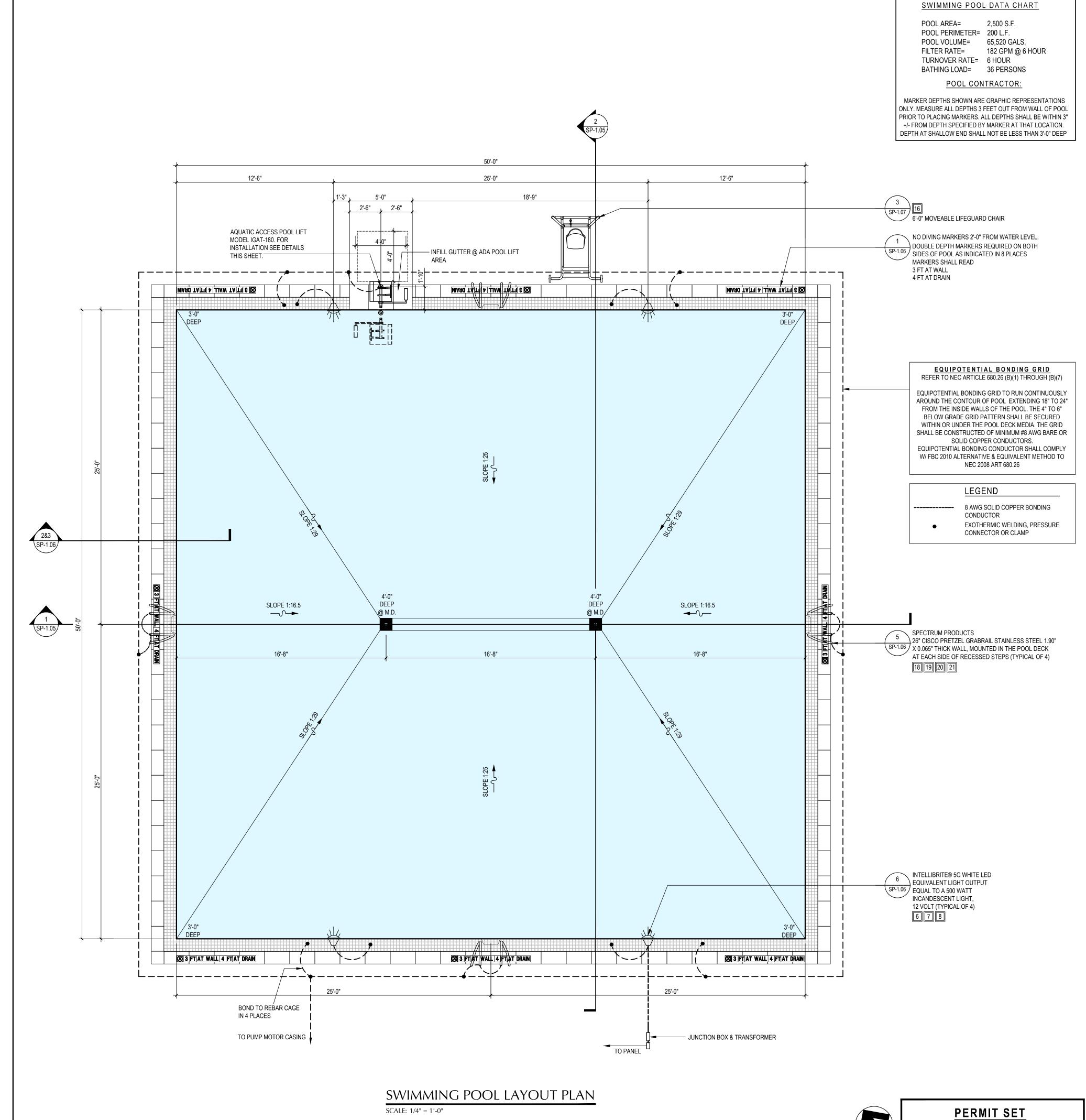


AQUATIC ACCESS POOL LIFT IGAT-180/ PLAN VIEW



AQUATIC ACCESS POOL LIFT MODEL IGAT-180 STANDARD ROTATION SCALE: 3/4" = 1'-0" SECTION VIEW





OF W. 24 FLOR

DATE: 12-15-2015

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DWG. No.

SP-1.03

ISSUE FOR CONSTRUCTION

DECEMBER 15th, 2015



GRAVITY LINES = 3 FPS

— – — SUCTION LINES = 6 FPS

PRESSURE LINES = 10 FPS

THE PIPING SHOWN IS A GRAPHIC REPRESENTATION OF PIPE ROUTE. ACTUAL ROUTING OF PIPING AROUND POOL MAY DIFFER FROM THIS PLAN

POOL LEGEND

ID#	DESCRIPTION	F
Α	MAIN DRAIN LINE TO POOL COLLECTOR TANK	
В	EQUALIZER LINE TO POOL COLLECTOR TANK	
O	GUTTER LINE TO POOL COLLECTOR TANK	
	POOL FILTER PUMP SUCTION LINE	
Ш	POOL FILTER PUMP RETURN LINE	
E ¹	WATER SUPPLY LINE TO WALL RETURN FITTINGS	
E2	WATER SUPPLY LINE TO FLOOR RETURN FITTINGS	
F	MAKE UP WATER LINE. REFER TO PLUMBING DRAWINGS FOR CONTINUATION OF PIPE	

DRAWINGS FOR CONTINUATION OF PIPE POOL BACKWASH LINE

POOL BACKWASH LINE TO DEDICATED SANITARY SYSTEM (WITH P-TRAP)- VIA AIR GAP. (REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE)

COLLECTOR TANK OVERFLOW LINE TO STORM

DRAINAGE SYSTEM (VIA AIR GAP). REFER TO CIVIL

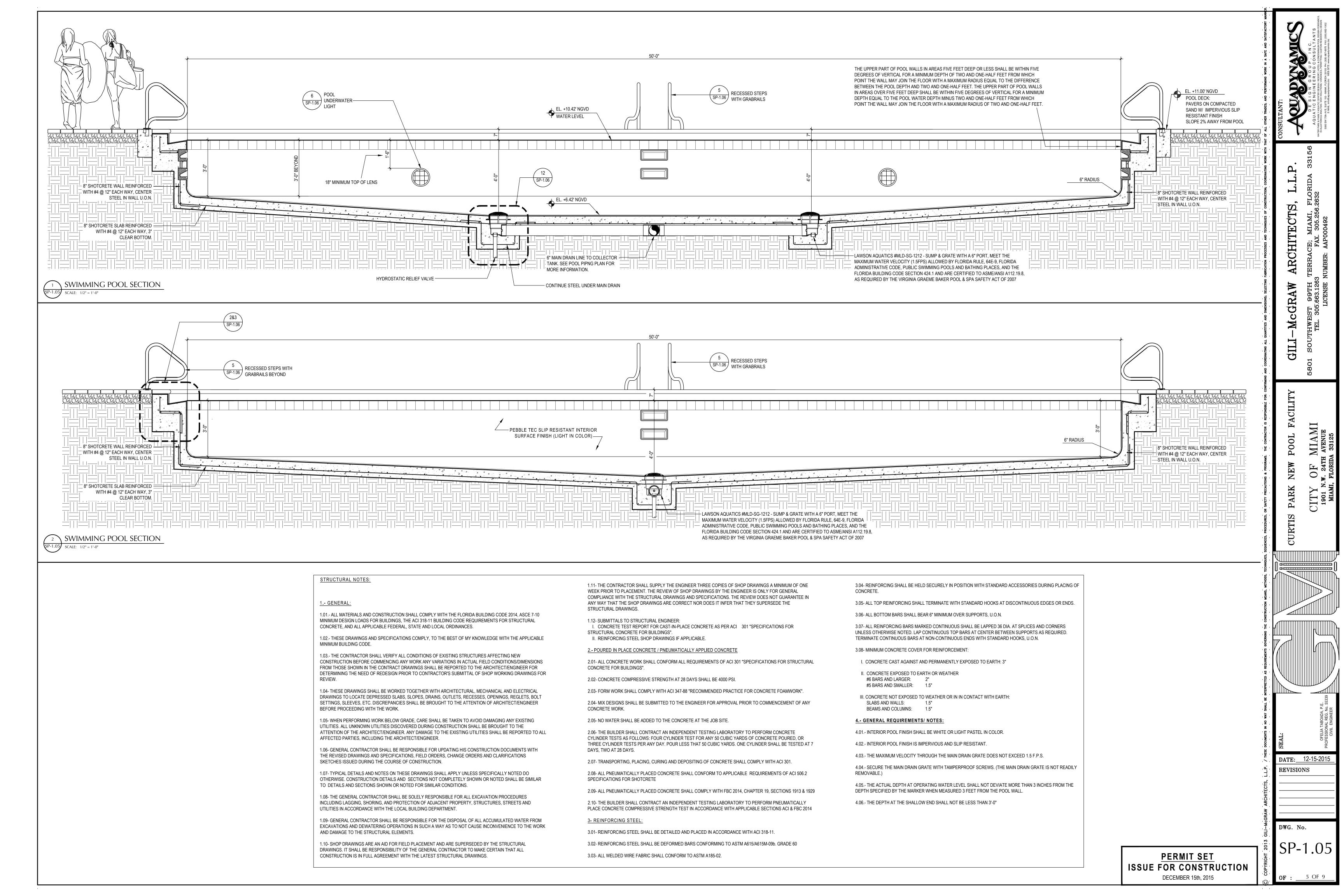
POOL DRAIN LINE

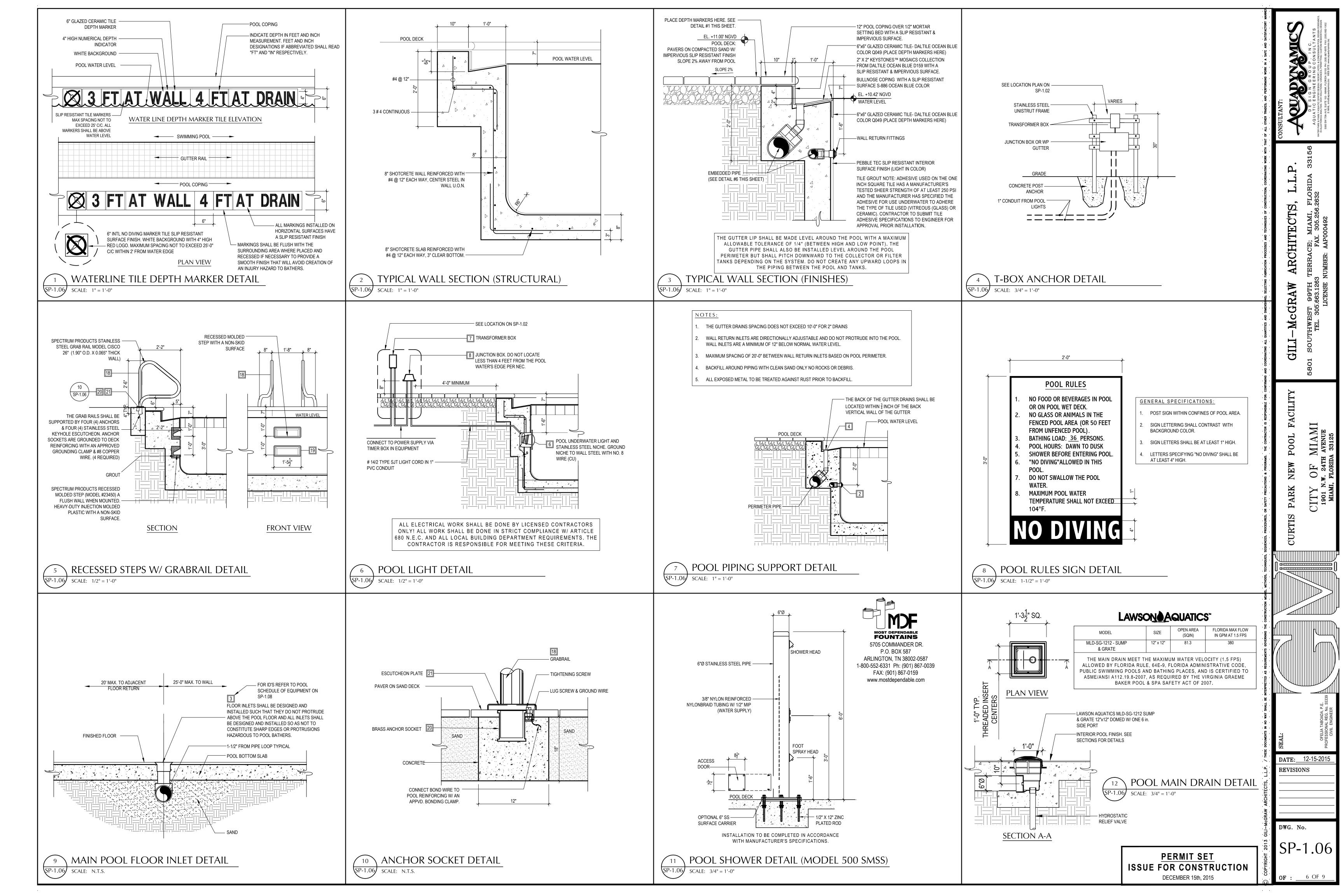
POOL DRAIN LINE TO STORM DRAINAGE SYSTEM- VIA AIR GAP (REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE)

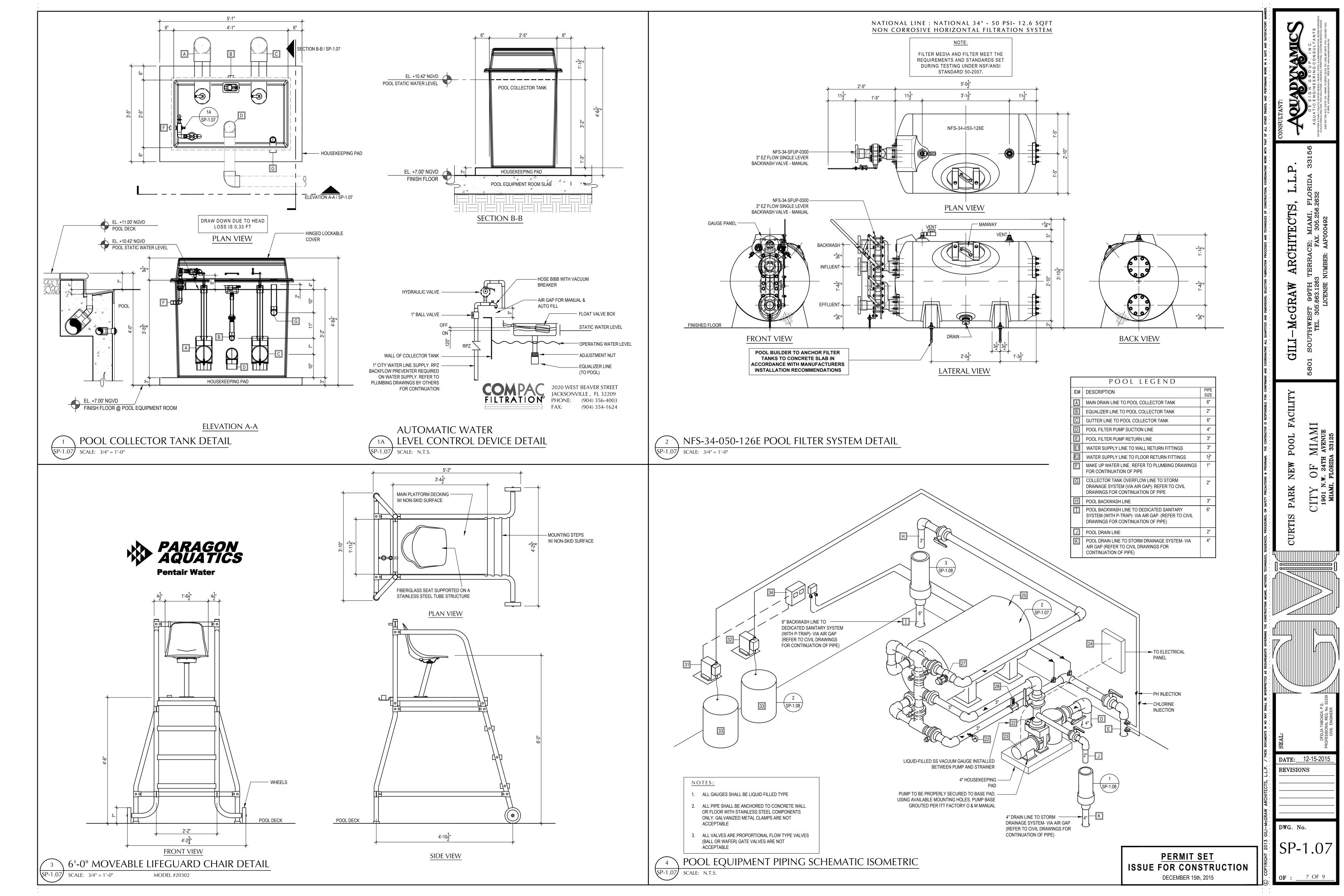
DATE: 12-15-2015 REVISIONS

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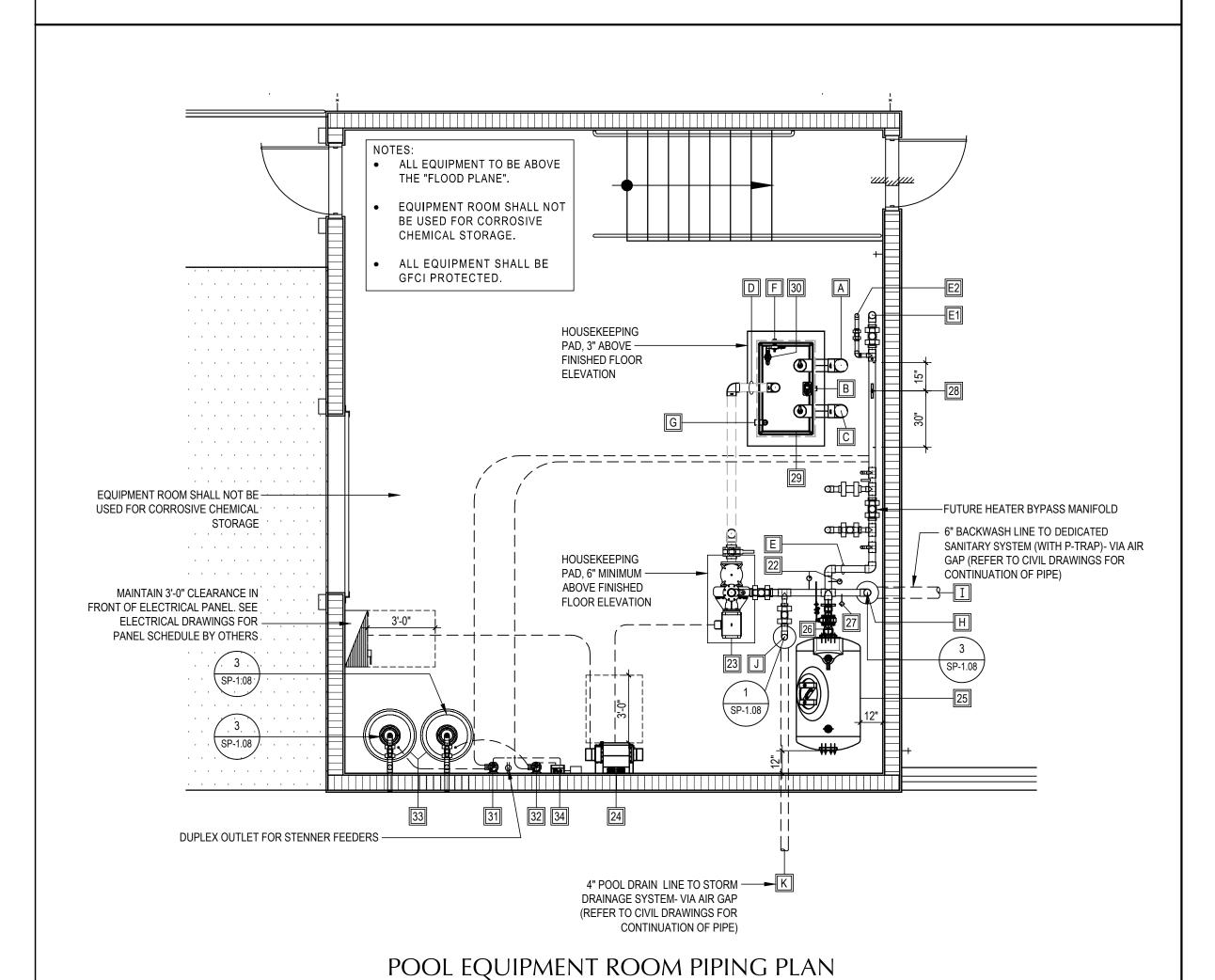
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POOL EQUIPMENT ROOM LAYOUT PLAN



SCALE: 1/4" = 1'-0"

2" POOL DRAIN LINE → 3" AIR GAP - 12" COLLAR (BY POOL CONTRACTOR) - CONCRETE SLAB - HUB TO BE INSTALLED BY GENERAL CONTRACTOR 4" POOL DRAIN LINE TO STORM DRAINAGE SYSTEM- VIA AIR GAP (REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE)

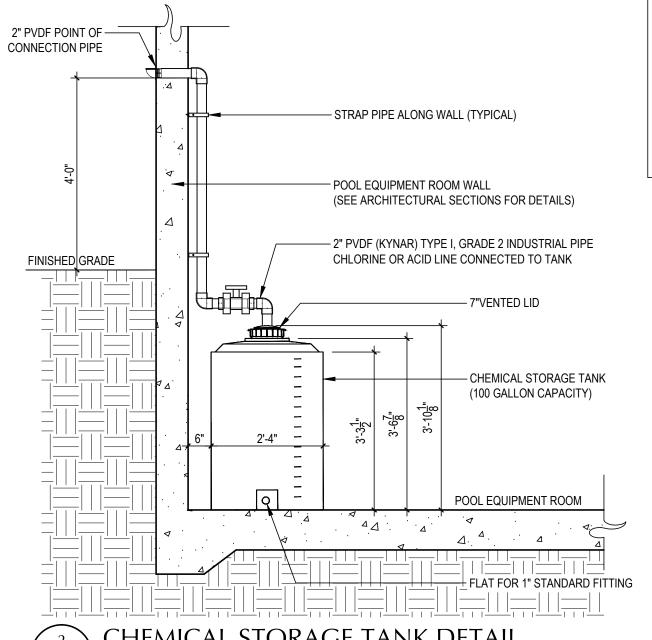
POOL DRAIN LINE TO STORM DRAINAGE SYSTEM DETAIL SCALE: N.T.S

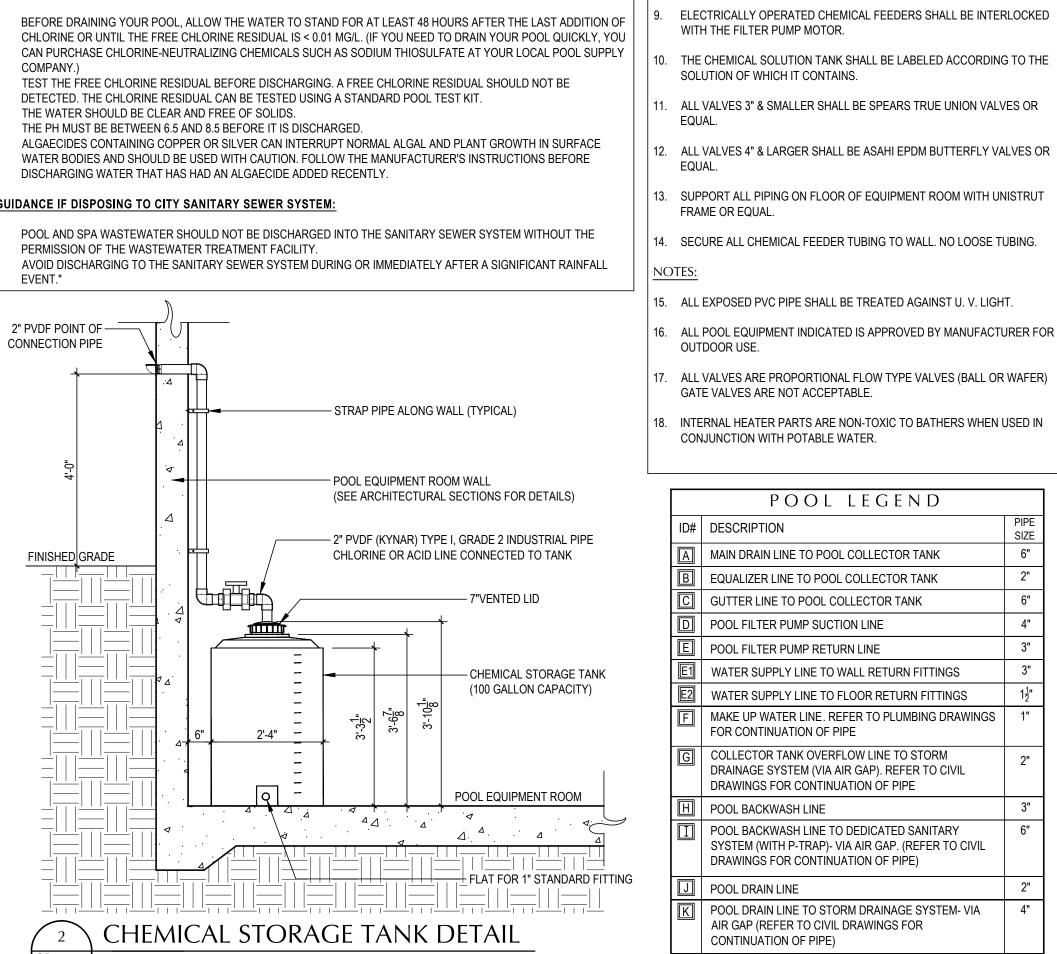
MAINTENANCE DRAIN REQUIREMENTS:

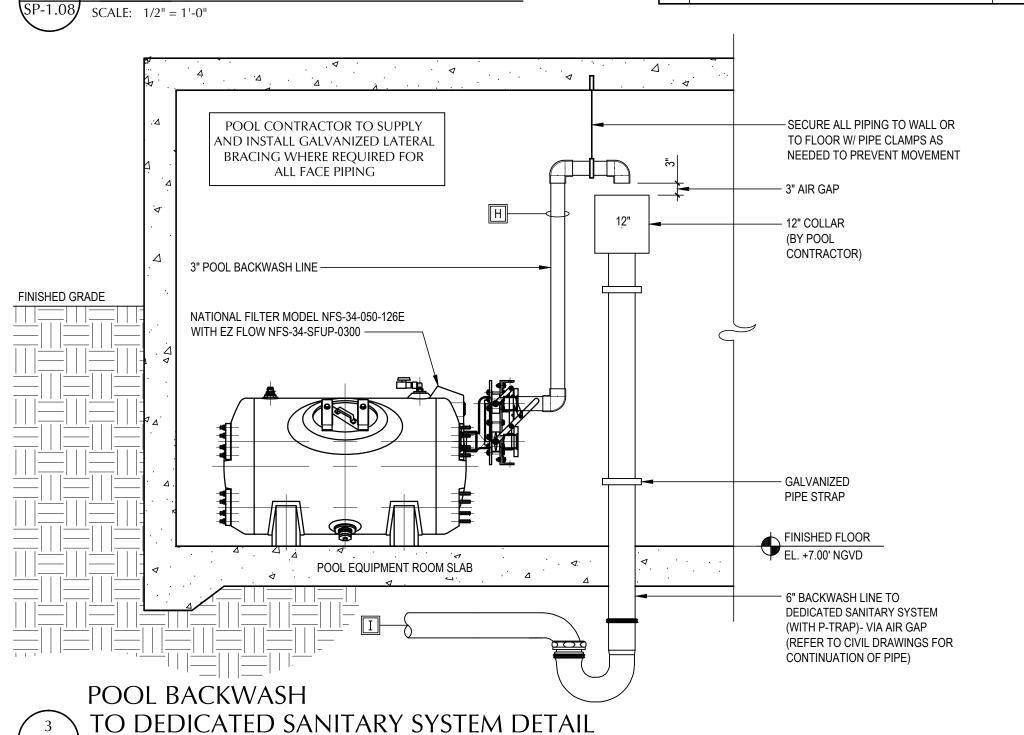
- BEFORE DRAINING YOUR POOL, ALLOW THE WATER TO STAND FOR AT LEAST 48 HOURS AFTER THE LAST ADDITION OF CHLORINE OR UNTIL THE FREE CHLORINE RESIDUAL IS < 0.01 MG/L. (IF YOU NEED TO DRAIN YOUR POOL QUICKLY, YOU CAN PURCHASE CHLORINE-NEUTRALIZING CHEMICALS SUCH AS SODIUM THIOSULFATE AT YOUR LOCAL POOL SUPPLY
 - DETECTED. THE CHLORINE RESIDUAL CAN BE TESTED USING A STANDARD POOL TEST KIT.
- THE PH MUST BE BETWEEN 6.5 AND 8.5 BEFORE IT IS DISCHARGED.
- WATER BODIES AND SHOULD BE USED WITH CAUTION. FOLLOW THE MANUFACTURER'S INSTRUCTIONS BEFORE DISCHARGING WATER THAT HAS HAD AN ALGAECIDE ADDED RECENTLY.

GUIDANCE IF DISPOSING TO CITY SANITARY SEWER SYSTEM:

SP-1.08 SCALE: N.T.S







E FLOOR IN THE ROOM SHALL BE CONSTRUCTED OF CONCRETE VING A SMOOTHLIKE NON-SLIP SURFACE FINISH.	
E FLOOR SHALL BE POSITIVELY DRAINED TO A FLOOR DRAIN.	

EQUIPMENT ROOM REQUIREMENTS:

A 3 INCH HOSE BIBB WITH VACUUM BREAKER SHALL BE LOCATED INSIDE

THE OVERHEAD LIGHT SHALL EMIT AT LEAST 30 FOOT CANDLES OF ILLUMINATION AT THE FLOOR LEVEL.

CLEARANCES TO PUMPS AND FILTERS FROM WALLS SHALL BE AS SPECIFIED BY THE MANUFACTURER.

FILTER & PIPING REQUIREMENTS:

INSIDE THE ROOM.

TAG ALL VALVES, LABEL ALL PIPE AND POST OPERATING INSTRUCTION

ALL FACE PIPING SHALL BE PVC SCHEDULE 40 NSF-PW. ALL JOINTS SHALL BE NON-THREADED SOLVENT WELD TYPE.

GATE VALVES SHALL NOT BE USED AS A MEANS FOR CONTROLLING THE FLOW OF WATER. ALL PROPORTIONAL FLOW TYPE VALVES ARE INDICATED ON THE DRAWING.

ELECTRICALLY OPERATED CHEMICAL FEEDERS SHALL BE INTERLOCKED WITH THE FILTER PUMP MOTOR.

THE CHEMICAL SOLUTION TANK SHALL BE LABELED ACCORDING TO THE SOLUTION OF WHICH IT CONTAINS.

15. ALL EXPOSED PVC PIPE SHALL BE TREATED AGAINST U. V. LIGHT.

16. ALL POOL EQUIPMENT INDICATED IS APPROVED BY MANUFACTURER FOR

17. ALL VALVES ARE PROPORTIONAL FLOW TYPE VALVES (BALL OR WAFER) GATE VALVES ARE NOT ACCEPTABLE.

INTERNAL HEATER PARTS ARE NON-TOXIC TO BATHERS WHEN USED IN CONJUNCTION WITH POTABLE WATER.

	POOL LEGEND				
ID#	DESCRIPTION				
Α	MAIN DRAIN LINE TO POOL COLLECTOR TANK	6"			
В	EQUALIZER LINE TO POOL COLLECTOR TANK				
С	GUTTER LINE TO POOL COLLECTOR TANK				
D	POOL FILTER PUMP SUCTION LINE				
E	POOL FILTER PUMP RETURN LINE	3"			
E1	WATER SUPPLY LINE TO WALL RETURN FITTINGS	3"			
E2	WATER SUPPLY LINE TO FLOOR RETURN FITTINGS	1 1 "			
F	MAKE UP WATER LINE. REFER TO PLUMBING DRAWINGS FOR CONTINUATION OF PIPE	1"			
G	COLLECTOR TANK OVERFLOW LINE TO STORM DRAINAGE SYSTEM (VIA AIR GAP). REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE	2"			
Н	POOL BACKWASH LINE	3"			
I	POOL BACKWASH LINE TO DEDICATED SANITARY SYSTEM (WITH P-TRAP)- VIA AIR GAP. (REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE)	6"			
J	POOL DRAIN LINE	2"			
K	POOL DRAIN LINE TO STORM DRAINAGE SYSTEM- VIA AIR GAP (REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPE)	4"			

MARK	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
1	2	MAIN DRAIN ASSEMBLY	LAWSON AQUATICS, INC.	MLD-SG-1212 SUMP & GRATE	12"X12" MAIN DRAIN W/ ONE 6 IN. SIDE PORT, 81.3 SQIN OPEN AREA EACH. MAXIMUM FLOW 380 GPM AT 1.5 FPS EACH, MEET THE MAXIMUM WATER VELOCITY (1.5FPS) ALLOWED BY FLORIDA RULE, 64E-9, FLORIDA ADMINISTRATIVE CODE, PUBLIC SWIMMING POOLS AND BATHING PLACES, AND THE FLORIDA BUILDING CODE SECTION 424.1 AND ARE CERTIFIED TO ASME/ANSI A112.19.8, AS REQUIRED BY THE VIRGINIA GRAEME BAKER POOL & SPA SAFETY ACT OF 2007 AND MEET THE FLORIDA STATUTES S. 514.0315.
2	12	WALL RETURN FITTINGS	HAYWARD	SP-1419D	RETURN FTG 1 1/2" X 3/4" WHITE ABS PLASTIC, DIRECTIONALLY ADJUSTABLE. EYEBALL RETURN FITTING ON WALL.
3	4	FLOOR RETURN	HAYWARD	SP1425S	FLOW ADJUSTABLE, FLUSH MOUNTED ($1\frac{1}{2}$ " SKT x 2" MIP)
4	21	FITTINGS GUTTER			2" GUTTER OUTLETS (30 GPM MAXIMUM @ 3 FPS)
5	1	OUTLETS EQUALIZER	HAYWARD	SP1019	GRATE END FITTING FOR EQUALIZER/ MAKE-UP WATER LINE. FTG TO
ت ا	•	FITTING	U N D E R W A	 ater ligh	BE INSTALLED 12" BELOW POOL WATER LEVEL. TING SYSTEM
6	4	POOL LIGHTS	PENTAIR	#601307	INTELLIBRITE 5g WHITE POOL LIGHTS - 500 WATT EQUIVALENT, 12 VOLT, 100 FT CORD LENGTH, 70 WATTS OUTPUT. PENTAIR AQUATIC SYSTEMS PLASTIC NICHES (P/N 79206600 AND P/N 79206700) AND CORD SEAL KIT (P/N 670044).
7	2	TRANSFORMER BOX	INTERMATIC	PX300	TRANSFORMER BOX IN WEATHER PROOF ENCLOSURE. A.J. GIAMMANCO SAF-T-VOLT DUAL WINDING TYPE.
8	4	JUNCTION BOX	PENTAIR	#78310500	JUNCTION BOX IN WEATHER PROOF NON-CORROSIVE ENCLOSURE REQUIRED. (3) ½" PORTS
		1	SAFETY &	<u> </u> & MAINTEN	ANCE EQUIPMENT
9	1	LIFE RING	GIAMMANCO	#20	20 INCH DIAMETER PLASTIC RING WITH 1/4" DIAMETER X 40 FT LONG SAFETY LINE.
10	1	LIFE HOOK	RAINBOW	#153	SHEPHERD TYPE LIFE HOOK, END ANCHORED TO A 16 FT ALUMINUM HANDLE.
11	1	LIFE RING	GIAMMANCO	#41160	
12	1	VACUUM CLEANER	PENTAIR	R201276	14 INCH WIDE VACUUM HEAD WITH FOUR WHEEL BASE. 16 FT HAND
13	1	HEAD TEST KIT	ProVac TAYLOR	MODEL 214 #2000-5	AND 1^{1}_{2} " X 40 FT FLEX HOSE. DUPLEX CAPABLE OF MEETING ALL CHEMICAL TESTS SPECIFIED BY
14	1	PORTABLE VACUUM CLEANER SYSTEM	HARMSCO	BF105BKPSC	THE FLORIDA ADMINISTRATIVE CODE IN CHAPTER 64E-9 PORTABLE SKID MNTD. UNIT WITH BF105 CARTRIDGE FILTER WITH SPECK MODEL 433-11, FULL RATE 1.0 HP, 230V/115V, 5AMP/10AMP 60 Hz, SELF PRIMING PUMP W/ 100' CORD AND PLUG. REQUIRES THAT I'BE PLUGGED INTO A GFI OUTLET.
15	2	FOOT & SHOWER TOWER	MOST DEPENDABLE FOUNTAINS, INC	MODEL 500 SMSS	OUTDOOR SHOWER WITH ONE FOOT WASH. PUSH BUTTON OPERATED. QUICK CLOSING VALVES. ONE PIECE WELDED CONSTRUCTION WITH STANDARD 304 SCHEDULE 10 STAINLESS STEEL.
16	1	LIFEGUARD CHAIR	PARAGON AQUATICS- PENTAIR	#20302	6 FOOT MOVEABLE LIFEGUARD CHAIR 1.90" x .065" WALL THICKNESS TYPE 304 STAINLESS STEEL POLISHED TO A 320 GRIT FINISH.
17	1	POOL LIFT	AQUATIC ACCESS	IGAT-180	IN-GROUND AUTOMATIC TURN 180°. CERTIFIED TO MEET THE 2010 STANDARDS FOR ACCESSIBLE DESIGN AS WELL AS THE REQUIREMENTS OF THE ADA, ABA AND CBC. POWERED BY WATER PRESSURE LIFTS UP TO 400 LB. AT 55-65 PSI OPEN FLOW WATER PRESSURE. THE IGAT-180 IS A FIXED INSTALLATION, SECURED INTO DECK WITH CONCRETE AND STEEL
		<u> </u>		GRABRAI	
18	4	GRAB RAILS	SPECTRUM PRODUCTS	#35121	26" CISCO STAINLESS STEEL GRAB RAIL (1.90" O.D. X 0.065" THICK WALL) GRABRAIL SECURELY FASTENED TO DECK WITH SOLID BRAS WEDGE ANCHOR SOCKETS. SOLD AS PAIRS
19	8	RECESSED MOLDED STEP	SPECTRUM PRODUCTS	#23450	FLUSH MOUNTED WALL RECESSED STEP. IT IS MADE FROM HEAVY-DUTY INJECTION MOLDED PLASTIC WITH A NON-SKID SURFACE. UNIT IS WHITE BUT CAN BE PAINTED ANY COLOR TO MATCH YOUR DECOR.
20	16	ANCHOR SOCKET	SPECTRUM PRODUCTS		4" STANDARD DUTY BRONZE ANCHOR FOR 1.90 INCH O.D. RAILINGS. SOCKET WITH GROUNDING LUG. EACH SOCKET SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE STANDARDS.
21	16	ESCUTCHEON PLATE	SPECTRUM PRODUCTS		STAINLESS STEEL ROUND COVER PLATE FOR 1.90" O.D. RAILS.
		CIRCULATIO		1	ION EQUIPMENT SYSTEM
22	2	PRESSURE GAUGES	THERMOCRAFT INDUSTRIES	PG60250	2 1/2" FACE 0-60 PSI MINIMUM DIAL READOUT OR EQUAL
23	1	FILTER PUMP	ITT MARLOW	4SPC10EC 10 HP	10 HP, SELF PRIMING PUMP, EPOXY COATED, 182 GPM @ 60 TDH, INTEGRAL SUCTION STRAINER W/STAINLESS STEEL BASKET, BACK PULL-OUT DESIGN (3 φ , 208 VOLT) 6" SUCTION PORT / 4" DISCHARGE PORT
24	1	VARIABLE FREQUENCY DRIVE	PENTAIR (OR EQUAL)	Acu Drive XS™ AD100-2303-N01	10 HP 3φ - 208 VOLT WITH REQUIRED FUSED DISCONNECT (INCLUDES FACTORY START-UP) INDOOR USE NEMA 1 (IP 20/21)
25	1	FILTER UNIT	NATIONAL FILTER	NFS-34-050-126E	NATIONAL 34" FRP, 12.6 SQFT HORIZONTAL FILTER SINGLE GRADE PERMANENT MEDIA FILTRATION FILAMENT-WOUND COMPOSITE DESIGN WITH SINGLE END-MOUNT CONNECTIONS NON-CORROSIVE FRP SADDLE SUPPORT BASE MODULAR HORIZONTAL DESIGN FOR SPACE EFFICIENCY
26	1	EZ FLOW	NATIONAL FILTER	NFS-34-SFUP-0300	3" EZ FLOW SL B/W VALVE 34" - MANUAL
27	1	BACKWASH	NATIONAL	EX SGS-150	BACKWASH SIGHT GLASS, 1.5"
28	<u>.</u> 	SIGHT GLASS FLOWMETER	FILTER BLUE-WHITE	F-30300P	3" PIPE, 80-300 GPM (273 GPM MINIMUM READING)
29	1	COLLECTOR TANK	COMPAC	F200	200 GALLON CAPACITY, ALL FIBERGLASS CONSTRUCTION AS MANUFACTURED BY COMPAC FILTRATION, INC. / 1-904-356-4003
30	1	WATER LEVEL CONTROLLER	COMPAC	TORO	WATER LEVELING DEVICE, AND FLOAT VALVE ASSEMBLY. THE VALVE IS ALSO EQUIPPED WITH A 1" PVC FILL LINE AND MANUALLY OPERATED BALL VALVE.
	1	C CL2	HEMICAL STENNER	FEEDER AN	ND CONTROLS CHLORINE FEEDER 50 GPD CAPACITY. INTERLOCK ELECTRICALLY
31	1	FEEDER	OTENNEL/	TOTAL	WITH FILTER PUMP. #5, 120V, 1/4 (31.44 GPD REQUIRED) CONNECTS WITH CONTROLLER- NO CIRCUIT REQUIRED
32	1	PH FEEDER	STENNER	45M5	PERISTALTIC MURIATIC ACID FEEDER 50 GPD CAPACITY. INTERLOCI ELECTRICALLY WITH FILTER PUMP. #5, 120V, 1/4. CONNECTS WITH CONTROLLER- NO CIRCUIT REQUIRED
33	2	CHEMICAL STORAGE TANKS	ACE ROTO-MOLD	VT00100-28	100 GALLON CAPACITY VERTICAL STORAGE TANK WITH MOLDED LID CONTENTS OF TANK TO BE CLEARLY LABELED ON FRONT OF TANK. SIZE: 28"Ø x45"H.
-	1	CHEMICAL CONTROLLER	BECS TECHNOLOGY	BECSys5	BECSys5 WATER CHEMISTRY CONTROLS PROVIDE CONTINUOS MONITORING AND CONTROL OF SANITIZERS (STANDARD ORP

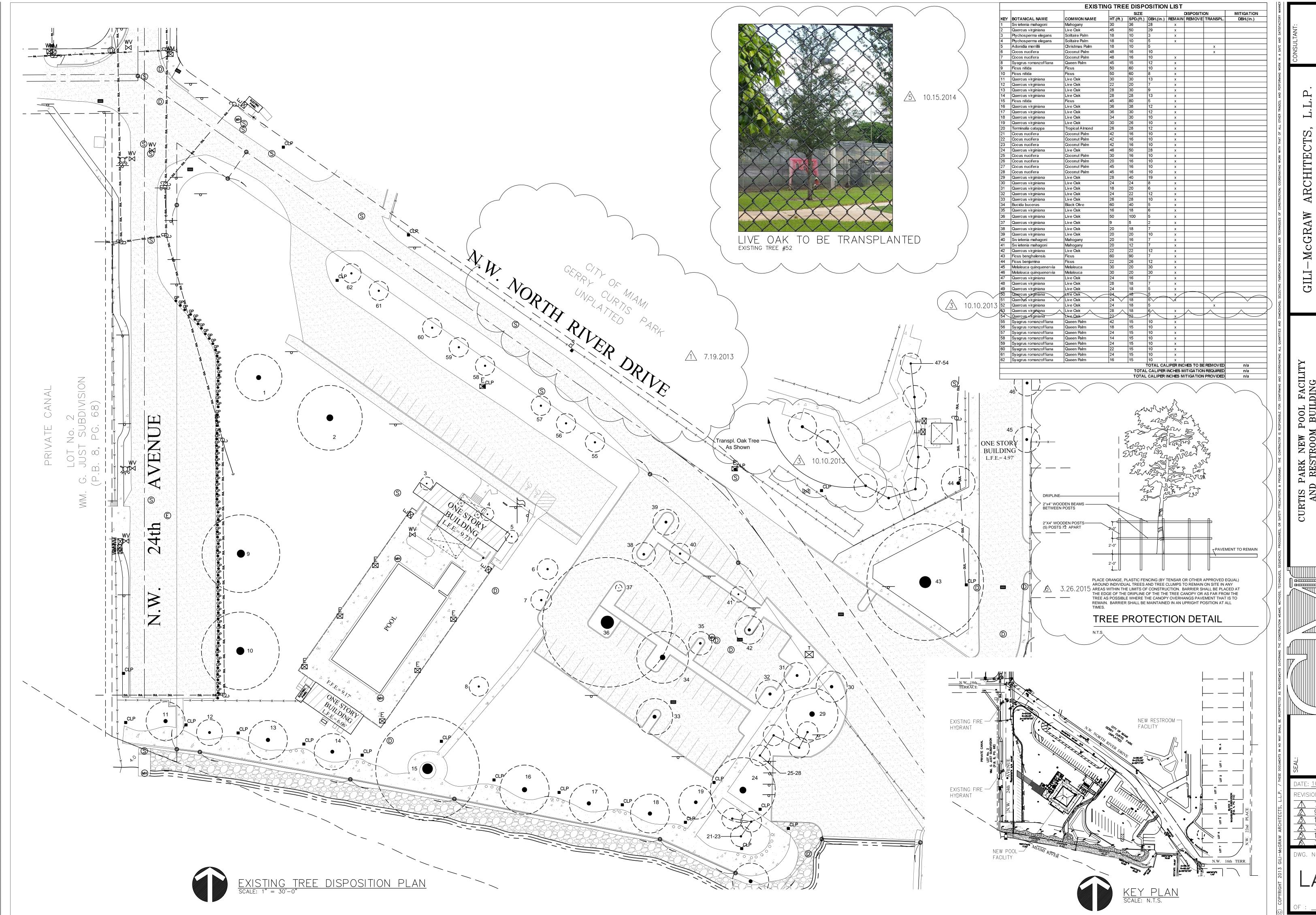
SWIMMING POOL • SCHEDULE OF EQUIPMENT



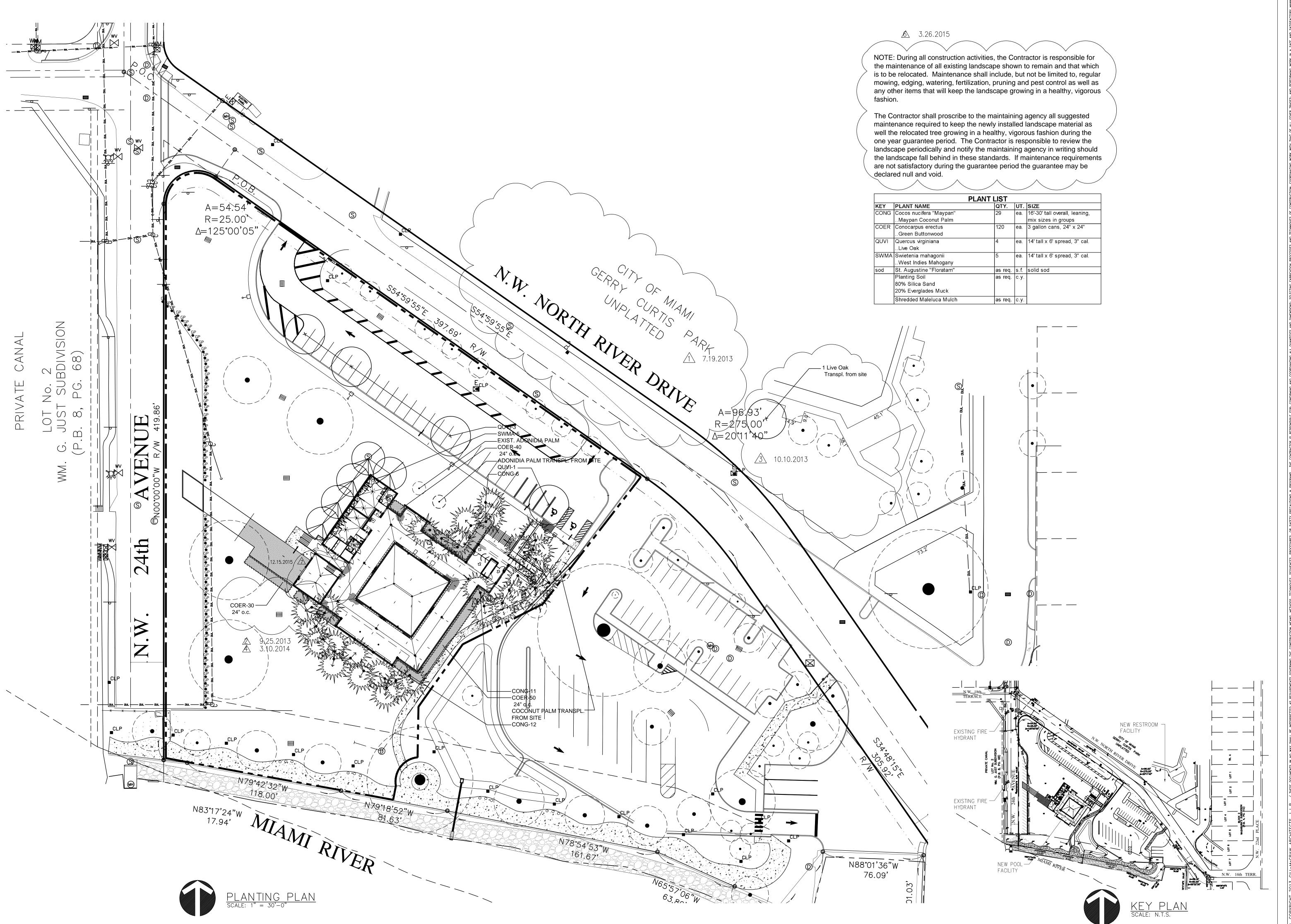
PERMIT SET ISSUE FOR CONSTRUCTION DECEMBER 15th, 2015

DATE: 12-15-2015 REVISIONS

DWG. No. SP-1.08



PARK NEW POOL FACILITY
RESTROOM BUILDING
ITY OF MIAMI
1901 N.W. 24TH AVENUE
MIAMI. FLORIDA 33125



URTIS PARK NEW POOL FACILITY
AND RESTROOM BUILDING
CITY OF MIAMI
1901 N.W. 24TH AVENUE

ARCHITECTS

-McGRAW

SHALL BE INTERPRETTED AS REQUIREMENTS GOVERNING THE CONSTRUCTION MEANS, METHODS, T

DATE: 10.01.201
REVISIONS
7.19.201
9.25.201

3.10.20 6 3.26.20 7 12.15.2 VG. No.

LA.2

Miami-Dade County.

delivery to the site.

of work is shown on the drawings which are a part of this document.

1.2 CONTRACTOR QUALIFICATIONS A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist certified by the International Society of Arboriculture (ISA) and licensed in

1.3 INVESTIGATION OF UTILITIES A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine

A. Only materials specified will be accepted, unless approved in writing by the

Landscape Architect in advance.

1.5 PLANT SIZES A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting.

1.6 PLANT QUALITY A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

B. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the

quantity on the plan shall override the plant list. 1.8 UNIT PRICES A. The successful bidder shall furnish to the Owner and the Landscape

Architect, a unit price breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner. 1.9 SUBMITTALS A. Fertilizer: The Contractor shall submit to the Owner and Landscape

analysis specified and placed at the rates specified in section 2.2 FERTILIZER. B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to

Architect documentation that all the fertilizer used for the project is of the

1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC A. Follow procedures in FDOT Index 600 for maintenance of traffic during

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians

C. Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the job site.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, weeding, mulching, pest and disease control, tightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position, pration of plant saucer, litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.

2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery

3. Re-setting or straightening trees and palms: The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

1.12 ACCEPTANCE OF INSTALLATION A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.

1.13 GUARANTEE A. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.

A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, inspection will be made by the Landscape Architect, upon written notice requesting such inspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit

1. Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the Landscape Architect.

PART 2 - MATERIALS

2.1 PLANTING SOIL A. Planting soil for trees, shrubs and ground covers shall be of the composition noted on the plans, measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

2.3 WATER A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.

PLANT BED PREPARATION NOTES

condition, over the entire area to be planted:

flush with and adjacent top of curb or pavement.

to allow for growth toward the edges of the bed.

PROTECTION OF PLANTS

DRIP LINE.

CURB.

ROOT BARRIER

Install root barrier so top of barrier is

CLOSER THAN 8 FT. from edge of

minimum of 15 ft. from the edge of the

ROOT BARRIER INSTALLATION DETAIL

walks or curbs, install a root barrier

flush with top of grade.

trunk in either direction.

When trees are to be installed

The root barrier shall extend a

SPACING OF PLANTS (SEE PLANT SPACING DETAIL)

Condition A:

Condition B:

1. In all areas where new sod and shrub and groundcover masses are to be

2. In all shrub and groundcover beds, prepare soil as described for either

If any compacted road base or asphalt or rocky soil is encountered, remove

entire area of the shrub and groundcover beds with 18" planting soil (as

compacted material entirely to allow an 18" depth of planting soil. Backfill the

specified in Plans) to within 2 inches of the adjacent pavement or top of curb.

Where no compacted soil is encountered, thoroughly mix 6 inches of planting

remove the existing soil to lower the grade, so that the prepared mix is finished

Remove all debris and rocks and pebbles larger than 1 inch in size and level

the grade before sodding. Remove, if required, existing soil so that top of sod is

1. Plants shall be planted sufficiently away from edges of pavements or curbs,

1. The Contractor shall be responsible to protect existing trees and shrubs in

equipment and materials, any toxic material, away from the canopy drip line of

trees and shrubs DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS

OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE

and adjacent to the area of work. Erect barriers as necessary to keep

soil into the existing soil to a depth of 18 inches. If required, excavate and

For all sod areas, spread a 2" deep layer of lawn sand prior to sodding.

to a minimum of 2 inches below top of curb or adjacent walkway.

planted, kill all existing weeds by treating with Round-up prior to beginning soil

2.4 MULCH A. Mulch shall be shredded Melaleuca mulch (Florimulch) as manufactured by Forestry Resources, Inc., or equal.

2.5 ROOT BARRIER MATERIAL A. When specified in the plans, root barrier material shall be Biobarrier (19.5 inch width) Reemay or approved equal.

B. Install per details in the plans. PART 3 - INSTALLATION PROCEDURES

A. Verify location of all underground utilities and obstructions prior to

excavation. 3.2 HERBICIDE TREATMENT A. In all areas infected with weed and/or grass growth, a systemic herbicide,

such as Roundup, shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.

3.3 PLANT PIT EXCAVATION AND BACKFILLING A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect utilities or improvements

C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.

D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.

3.4 WATERING A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION For trees up to 5 inch caliper - 5 gallons From 5 to 8 inch caliper - 25 gallons 9 inch and up caliper - 50 gallons

FREQUENCY OF WATER Daily for the first week 3 times per week for weeks 2 - 5 2 times per week for weeks 6 - 8 1 time per week for weeks 9 - 12

B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installed.

3.5 FERTILIZING

A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize sod within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:

evenly over the root ball area.

1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread

2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after spreading.

3.6 MULCHING

A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high ring of mulch at the outer edge of tree and palm holes.

3.7 GUYING AND BRACING A. See the details bound herewith or made part of the plans.

case of sod patching.

3.8 SODDING A. Provide a blanket of lawn sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the

B. Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes. The sod shall be rolled with a 500 pound hand roller immediately after placing.

C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips.

TRUNK FLARE OR TOP ROOT

INSTALL 2" OF MULCH OVER -

3" DIAMETER CIRCLE AROUND

HE TRUNK. DO NOT PLACE

REMOVE ANY PORTION OF WIRE

BURLAP COVERINGS BELOW THE

TOP HALF OF THE ROOTBALL.

120°APART DRIVEN THROUGH

N.T.S.

BOTTOM OF PLANTING PIT

MULCH WITHIN 3" OF THE

THE ROOTBALL. REMOVE

E. Apply fertilizer to the sod as specified in Section 3.5.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod. SET ROOTBALL SO -

IS 2" ABOVE SURROUNDING GRADE BASKETS ABOVE THE TOP HALF OF COMPLETE REMOVE ALL SYNTHETIC ROOTBALL COVERING MATERIALS (2)2" DIA. 8' LONG WOOD DOWELS 3 TIMES ROOT BALL DIAMETER

NOTE - IRREGULAR OR MULTI-STEMED TREES SHALL HAVE A SIMILAR STAKING PATTERN AS SINGLE TRUNKED TREES. STAKES NEED NOT ALL BE ATTACHED TO EVERY STEM ALL SUPPORT MATERIALS ARE TO BE REMOVED FROM THE TREES ONCE THE TREES HAVE BECOME ESTABLISHED(NOT TO EXCEED 12 MONTHS FROM THE COMPLETION OF THE PROJECT).

SHRUB INSTALLATION DETAIL

5/8" DIAMETER NYLON STRAPS WRAPPED AROUND TRUNK & PULLED TAUT, TIED TO 6" HIGH TEMPORARY RETENTION RING OF SOIL TO ASSIST IN IRRIGATION OF THE TREE. REMOVE RING 3 MONTHS AFTER INSTALLATION FINISHED GRADE

HOLES TO ACCOMMODATE PLANTS SHALL BE A MINIMUM OF THREE TIMES THE SIZED OF THE PLANT BALL. ALL BACKFILL FOR TREES SHALL BE AS EXISTING

IL WITH ALL ROCKS 2" OR LARGER REMOVED FERTILIZER SHALL BE INSTALLED AS PER THE

PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER

TREE TRANSPLANTING SPECIFICATIONS

1.01 Root pruning, Watering Before Transplanting A. Root prune trees a minimum of eight (8) weeks prior to moving them. It is not necessary to root prune palms prior to transplanting unless specifically instructed to do so by the Landscape Architect. Prior to root pruning, thoroughly water the

B. Root pruning shall be accomplished by digging a trench two-thirds (2/3) of the way around the tree at a minimum of twenty-four (24) inches deep. Root prune only with a mechanical root-pruning saw or a trencher with a maximum trench width of 8 inches. This trench shall form a rootball of the following sizes: 4"-5" caliper 3' diameter 4'-6' diameter 6"-8" caliper

C. All exposed roots shall be cut off smoothly, with sharp instruments. Backfill trenches with soil consisting of 30% silica sand and 70% mulch. Water them thoroughly after root pruning, and once weekly during the root regeneration period, with a soluble fertilizer that has a 20.20.20 analysis at manufacturer's ecommended rate, dissolved in the water.

root zone with at lest 2"-3" of water

Over 12" caliper 10' diameter

D. It may be necessary to re move curbing and/or paving to compete the root with a concrete saw, any section of curb or pavement before cutting the roots This material shall be removed from the site by the Contractor and the area of pavement cut and removed by the root pruning shall be filled to flush with adjacent pavement. if required by the Landscape Architect for maintenance of traffic or pedestrian safety, the Contractor shall replace said curb or pavement.

E. Maintenance of Traffic safety requirements must be met where trees are close to travel lanes.

1.02 Top Pruning and Thinning A. The amount of general pruning and thinning shall be limited to the minimum necessary to remove dead or injured twigs or branches and to compensate for the loss of roots as a result of transplanting operations. Approximately one third (1/3) of the mass of the canopy shall be removed unless otherwise instructed by the Landscape Architect. Pruning and thinning shall be done in such a manner as not to change the natural habit or shape of a plant. For very large trees that must be transported on public ROWs or where obstacles require it, additional pruning may be allowed at time of transport; cut back trees to the maximum size which can be transported after limbs are tied in as much as possible. The Landscape Architect shall be contacted prior to performing any major pruning or thinning. For palms. remove only fronds that are in decline or hanging lower than horizontal to the ground. Sabal palms may be "hurricane cut"

1.03 Bracing and Guying of Trees after Root Pruning

A. Bracing and Guying shall be provided to assure the trees' stability during the root regeneration period; as per the applicable detail.

1.4. Balling and Burlappng

† EDGE OF PAVEMENT

A. Plant material which is in a soil of a loose texture, which does not readily adhere to the root system, especially in the case of large plants or trees, shall have the root ball wrapped in burlap and then wire, if directed by the Landscape Architect.

1.5. Transporting Plant Material

A. Movement of plants on public ROWs shall comply with all ordinances, codes and safety requirements, etc.

B. Before attaching slings to tree trunks for lifting, wrap the trunks with burlap tied tightly to avoid slippage and damage to the bark. To lift a large specimen, drill a two-inch diameter hole through the trunk and skewer it with a hardened steel pin. Attach the slings to the projecting ends. When the tree is planted, remove the pin and drive a hardwood dowel p lug into both ends of the hole, driven just

C. Transport materials on vehicles large enough to allow plants to not be crowded D. Protect plant material during transporting to prevent damage to the root system

and dessication of leaves. Trees shall be protected by tying in the branches and covering all exposed branches as necessary. Do not bend or bind-tie plant material in such a manner as to damage bark, break branches or alter the natural shape. Plants shall be covered to prevent wind damage during -EDGE OF PAVEMENT

SET TOP OF ROOT BALL 1 1/2" - 2"

ABOVE SURROUNDING GRADE

A. The Contractor shall exercise care in handling, loading, unloading, storing and transporting material to prevent damage. The Contractor shall assume full responsibility for protection and safekeeping of materials stored.

B. Transplanting must be done within 24 hours after being dug. Store plants in shade and keep the root ball and canopy moist

A. Excavation of Holes: Plant holes shall be roughly cylindrical in shape with sides approximately vertical. The depth of the hole shall be equal to the rootball depth, unless further depth is required to provide adequate drainage. The diameter of the hole shall be a minimum of 24" larger than the rootball

B. Setting of Plants

1) PLANT MATERIAL SHALL BE PLANTED AT THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR PLACE MENT ON THIS PROJECT OR JOB. WHEN LOWERED INTO THE HOLE. THE PLANTS SHALL REST ON THE RPEPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE THE LEVEL OF THE TOP OF THE HOLE. CREATE A SAUCER, APPROXIMATELY 6" DEEP TO HELP HOLD WATER. THE PRACTICE OF PLUNGING BURYING OR PLANTING PLANT MATERIAL SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE BELOW THE LEVEL OF THE SURROUNDING FINAL GRADE WILL NOT BE PERMITTED UNLESS IT IS INDICATED OTHERWISE IN THESE SPECIFICATIONS. The plants shall be set straight or plumb or normal to the relationship of their growth prior to transplanting. The Landscape Architect reserves the right to realign any plant material after it has been set.

1) Use planting soil consisting of 80% soil from site and 20% well-rotted

compost derived from yard wastes. Remove any rocks 2" in diameter or larger before backfilling. 2) Backfill the bottom two-thirds of the planting hole and firmly tamp and settle by watering as backfilling progresses. After having tamped and settled the bottom two-thirds of the hole, thoroughly puddle with water and fill remaining one-third of the hole with planting soil, tamping and watering to eliminate air

1.07 Watering Transplanted Trees

every other day

twice a week

responsibility to pay any fees for water use.

- 2" MULCH FLUSH WITH ADJACENT

NOTE- USE 4" X 4" STAKES

120° APART

NO NAILS IN TREE

TREES & PALMS OVER 12" CALIPER

PROVIDE THREE 2'X4' PINE STAKES -

ATTACH W/NAILS TO BATTENS

SET ROOTBALL SO ——

TRUNK FLARE OR TOP ROOT

3" DIAMETER CIRCLE AROUND

THE TRUNK. DO NOT PLACE

TOP HALF OF THE ROOTBALL.

BELOW THE TOP HALF OF THE

WOOD STAKES TOP OF STAKES

BELOW OR FLUSH WITH GRADE

ALL SYNTHETIC ROOTBALL

COVERING MATERIALS.

DETAIL A -

MULCH WITHIN 3" OF THE

IS 2" ABOVE SURROUNDING GRADE

INSTALL 2" OF MULCH OVER -

REMOVE ANY PORTION OF WIRE

BASKETS OR BURLAP ABOVE THE

FOLD BACK BURLAP COVERINGS

ROOTBALL. COMPLETELY REMOVE

PAVEMENT (KEEP AWAY FROM

SHRUB STEMS)

Weeks 9-12 once per week

provide water for a minimum of 90 days or the length of time specified in the

A. Once trees have been relocated and well watered-in during the transplanting,

B. Rootball watering: Maintain a soil moisture in the root zone at an optimum evel for growth by deep watering of the entire rootball area according to the following schedule (or extended schedule specified in plans): 3 gallons water per inch caliper

2 gallons water per inch caliper

1 ½ gallons water per inch caline

1 ½ gallons water per inch caliper

N.T.S.

D. If there is no available water source at the project, such as a hose bib(s) or fire hydrant(s) if approved for use, then the Contractor shall be responsible for supplying water by means of a truck or ta nk. It is the Contractor's

1.08 Mulching of Plant Saucer

Weeks 2-4

Weeks 5-8

A. Spread a 3" thick layer fo shredded Eucalyptus or Melaleuca mulch over entire area of the rootball.

1.09 Application of Fertilizer

A. At time of watering root-pruned trees prior to transplanting, drench rootball once per week during the course of watering with a soluble fertilizer that has a 20.20.20 analysis at manufacturer 's recommended rate.

B. Three (3) weeks after transplanting, and after mulching, apply on the surface evenly spread over the area of the entire rootball, FEC (Florida East Coast Fertilizer Co.) #5231 (12-6-8) or equal at the rate of one (1) pound per inch of Fertilizer Analysis Nitrate

Water soluble

Water insoluble Total Phosphoric Acid Derived from triple super phosphate Total Water Soluble Potash Potash, and activated sludge Total Water Soluble Magnesium Derived from Sulfate of Potash Magnesium

Derived from Manganous Oxide Derived from Sodium Borate Derived from Copper Oxide 0.08% Derived from Zinc Oxide

1.10 Staking Trees

Total Iron

A. Stake all trees and palms at the new site with new timbers with a minimum 2" x 4" dimension as per the details enclosed, or in the case of obstacle, in another manner which will support the tree

Stakes will remain according to the following schedule, after which stakes will be removed by the Contractor: Trees up to 6" DBH Trees 6"-12" DBH Trees greater than 12" DBH 12 months, or as required by Landscape

Contractor will replace damaged guys as necessary. 1.11 Clean-Up

A. Disposal of Waste: All waste and other objectionable material created through planting operations and landscape construction shall be removed completely on a daily basis from the job or as directed by the Landscape Architect. Any payed areas. including curbs and sidewalks which have been strewn with soil, sod, fertilizer

tied-up canopies when it is determined by the Landscape Architect that sufficient time elapsed for the plants to root, stabilizing the plant. This shall be done even if the project has been completed and given final acceptance. C. Backfilling of holes left after trees are transplanted shall be done immediately after tree removal, or suitable barricades shall be provided to prevent injuries If the area is to be planted, backfill with a mix of 80% sand, 20% organic

B. The Contractor shall remove and dispose of stakes and battens and untie any

1.12 Guarantee and Replacement

backfill material.

A. Plant material which is on the site and scheduled to be transplanted is not covered by the guarantee, except in the case of Contractor's negligence or work that has been done in an unworkmanlike manner. If it is determined by the Landscape Architect that the Contractor's negligence or unworkmanlike operations severely damaged or poses a threat to the health of material to be transplanted or already transplanted, then the Contractor shall be required to replace the

material. If the area is to be paved, consult with the Landscape Architect for proper

tree at a size equal to the transplanted tree, at his cost, and water it as per 1.07.

WALL, CURB, EDGE OF PAVEMENT, OR EDGE OF BED TOP OF STAKE AT OR -EDGE OF PLANTING PIT FLUSH WITH OR **BELOW GRADE**

SHRUB SPACING DIAGRAM

_____ 3 TIMES ROOT BALL DIAMETER ___

PLANTING & BRACING DETAIL

OVER 3 1/2" CALIPER

N.T.S.

See PLANT LIST

- DISTANCE VARIES FOR EACH SPECIES SPACING

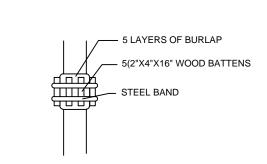
18" FOR 1 GALLON SHRUB

24" FOR 3 GALLON SHRUBS

3' FOR 7-10 GALLON SHRUBS

(UNLESS OTHERWISE SPECIFIED)





<u>/5</u>\ 10.15.2014

BATTEN DETAIL B

NOTE - IRREGULAR OR MULTI-STEMED TREES SHALL HAVE A SIMILAR STAKING PATTERN AS SINGLE TRUNKED TREES. STAKES NEED NOT ALL BE ATTACHED TO EVERY STEM. ALL SUPPORT MATERIALS ARE TO BE REMOVED FROM THE TREES ONCE THE TREES HAVE BECOME ESTABLISHED (NOT TO EXCEED 12 MONTHS FROM THE COMPLETION

- 6" HIGH TEMPORARY RETENTION RING OF SOIL TO ASSIST IN IRRIGATION OF THE TREE. REMOVE RING 3 MONTHS AFTER INSTALLATION. FINISHED GRADE

HOLES TO ACCOMMODATE PLANTS SHALL BE A MINIMUM OF THREE TIMES THE SIZED OF THE PLANT ROOTBALL ALL BACKFILL FOR TREES SHALL BE EXISTING SOIL WITH ALL ROCKS 2" OR LARGER REMOVED

FERTILIZER SHALL BE INSTALLED AS PER THE

OF THE PROJECT).

_ANDSCAPE SPECIFICATIONS AND DETAILS

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