OWNER/ DEVELOPER

MANATEE COUNTY PARKS AND RECREATION 5502 33rd AVE. DRIVE WEST BRADENTON, FLORIDA 34209 (941) 792-8784 ATTN: CHARLES HUNSICKER

CIVIL ENGINEER / LAND PLANNER

CPH, INC. 3277A FRUITVILLE ROAD SARASOTA, FLORIDA 34237 (941) 365-4771 ATTN: DANIEL P. MOYER, P.E.

SURVEYOR

ZNS ENGINEERING 201 5th AVENUE DRIVE EAST BRADENTON, FLORIDA 34208 (941) 748-8080 ATTN: R.E.M. EDGERTON, P.S.M.

ENVIRONMENTAL

CPH, INC. 3277A FRUITVILLE ROAD SARASOTA, FLORIDA 34237 (941) 365-4771 ATTN: DAVID A. LANDERS

LANDSCAPE ARCHITECT

CPH, INC. 500 W. FULTON STREET SANFORD, FLORIDA 32771 (407) 322-6841 ATTN: JAMES K. WINTER R.L.A., C.L.A.R.B.

ARCHITECTURAL CONSULTANTS

ARCHITECT

UGARTE & ASSOCIATES, INC. 434 9TH AVENUE WEST PALMETTO, FLORIDA 34221 (941) 729-5692 ATTN: CARLOS D. UGARTE

STRUCTURAL

WILSON STRUCTURAL CONSULTANTS, INC 6731 PROFESSIONAL PKWY. WEST SUITE 103 SARASOTA, FLORIDA 34240 (941) 907-4789 ATTN: RICHARD D. WILSON

MECHANICAL

ME3 CONSULTING ENGINEERS, LLC 5300 PAYLOR LANE SARASOTA, FLORIDA 34240 (941) 748-1319 ATTN: KAY C. CLEM, P.E.

ELECTRICAL

ME3 CONSULTING ENGINEERS, LLC 5300 PAYLOR LANE SARASOTA, FLORIDA 34240 (941) 748-1319 ATTN: BRYAN P. ZAPF, P.E.

COASTAL CONSULTANTS

COASTAL

ERICKSON CONSULTING ENGINEERS, INC. 7201 DELAINEY COURT SARASOTA, FLORIDA 32420 (941) 373-6460 ATTN: KARYN M. ERICKSON, P.E.

STRUCTURAL

STIRLING & WILBUR ENGINEERING GROUP 7085 SOUTH TAMIAMI TRAIL SARASOTA, FLORIDA 34231 (941) 929-1552 ATTN: BRIAN STIRLING, P.E.

NOTICE
THE SIZE OF THESE PLANS MAY HABEEN SLIGHTLY ALTERED BY
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MUST BE CONSIDERED WHEN SCAL
ANY REPRODUCED PLANS FOR THE
PURPOSE OF COLLECTING DATA.

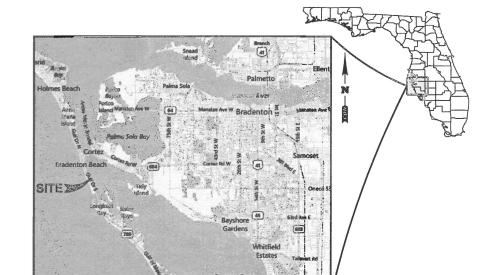
NOTE: NOT RELEASED FOR CONSTRUCTION UNLESS STAMPED "RELEASED FOR CONSTRUCTION"

CONSTRUCTION PLANS

FOR

NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION

1343 GULF DRIVE SOUTH (SR 789)
CITY OF BRADENTON BEACH
MANATEE COUNTY. FLORIDA



MANATEE COUNTY, FLORIDA SECTION 10, TOWNSHIP 35 S., RANGE 16 E.

VICINITY MAP

DESIGN STANDARD REFERENCES:

UTILITIES

5413 SR 64 E

(941) 345-1348

- MANATEE

ATTN: TOM WRIGHT

2900 CATHERINE ST PALATKA, FLORIDA 32177

ATTN: TRACY STERN

- SUBAQUEOUS 2900 CATHERINE ST PALATKA, FLORIDA 32177

(800) 868-9554 ATTN: TRACY STERN

VERIZON FLORIDA INC.

1909 US HWY 301 N TAMPA, FLORIDA 33619

MANATEE COUNTY UTILITY OPERATIONS

4422 C 66TH STREET WEST

ATTN: KATHY MCMAHON

(941) 316-1958 X2

ATTN: JOHN MICHAEL

BRADENTON, FLORIDA 34210 (941) 792-8811 X5075

LONGBOAT KEY UTILITIES

600 GENERAL HARRIS STREET

LONGBOAT KEY, FLORIDA 34228

(813) 627-8343 ATTN: DAVID WYNNS

BRIGHT HOUSE NETWORKS

BRADENTON, FLORIDA 34208

FLORIDA POWER & LIGHT

FLORIDA POWER & LIGHT

- National Forest Products Association (NFPA)/Southern Pine Inspection Bureau (SPIB) Timber Construction Manual
- American Wood Preserver's Association (AWPA) Standards C2-90, C9-91 and C18-91
- AWPA Standards M1, M2, M4 and M6, Latest Edition
- American Concrete Institute (ACI) 304, 301, 218 and SP-66
- American Society for Testing and Materials (ASTM) C94, C260, C494, A615 and A1035
- FDOT Standard Specifications for Road and Bridge Construction, 2010, Sections 451 and 948
- Post Tensioning Institute Specification for Unbonded Single Strand Tendons Section 3.2.5
 Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein
- Manatee County Engineering Standards

BASIC BUILDING CODE INFORMATION:

- AUTHORITY HAVING JURISDICTION: BRADENTON BEACHAND WEST MANATEE FIRE AND RESCUE DISTRICT
- BUILDING CODE COMPLIANCE: 2010 FLORIDA BUILDING CODE WITH 2012 AMENDMENTS

2012 FLORIDA ACCESSIBILITY CODE

2010 FLORIDA FIRE PREVENTION CODE WITH NFPA 1-18 ADOPTED MAY 2013

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Survey L.B. No. 7443
Arch. Lic. No. AA2600922
Lndsop, Lic. No. LC000027

Survey Lie. No. A26800 Lndsep. Lie. No. LC0000

COVER SHEET

NORTH COQUINA BOAT RAMP
PARKING LOT EXPANSION

Sheet No.

C-1

TABULATIONS OF QUANTITIES FOR SITE IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNITS	QTY.
2.01	MOBILIZATION	LS	1
2.02	MAINTENANCE OF TRAFFIC	LS	1
2.03	SURVEY AND CONTROL LAYOUT BY CONTRACTOR	LS	1
2.04	AS-BUILT SURVEY	LS	1
2.05	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND		
2.06	WATER POLLUTION REMOVE AND DISPOSE OF EXIST. SITE ITEMS (LIGHTING,	LS	1
	DUMPSTERS, FENCING, SIGNAGE, GATES, POSTS)	LS	1
2.07	REMOVE AND DISPOSE OF, EXIST. TREES (8-INCH AND GREATER)	EA	58
2.08	CLEARING AND GRUBBING	LS	1
2.09	GRADING AND FILL	LS	1
2.10	STORMWATER POND OUTFALL, INCL RIP-RAP, SKIMMER, CONCRETE	LS	1
2.11	PAVEMENT CEMENT CONCRETE AND BASE (6-INCH THICK MIN., 4000 PSI), INCLUDING WWR AND 12" BASE	SY	6625
2.12	CONCRETE SIDEWALK ONSITE (4-INCH THICK MIN., 3000 PSI),		
0.40	AND 6" BASE	SY	140
2.13	CONCRETE SIDEWALK OFFSITE (FDOT INDEX 310, 6" THICK)	SY	140
2.14	COMPACTED SHELL DRIVE	SY	420
2.15	WASHED SHELL - 4" THICK	SY	146
2.16	FDOT DRIVEWAY	SY	288
2.17	PIPE, WATER, 2-INCH PE, SDR 9	LF	145
2.18	PIPE, WATER, 1-INCH PE, SDR 9	LF	680
2.19	2-INCH WATER CONNECTION (INCL. DISINFECTION AND TESTING)	LS	1
2.20	1.5-INCH WATER METER AND BACKFLOW ASSEMBLY	EA	1
2.21	RPZ AND HOSE BIB (FOR STORAGE BUILDING)	EA	1
2.22	FITTINGS (D.I.), WATER	LS	11
2.23	6' TALL CHAIN LINK FENCE	LF	155
2.24	10' WIDE CHAIN LINK ACCESS	EA	5
2.25	TYPE AB CURB AND GUTTER	LF	46
2.26	TYPE D CURB	LF	22
2.27	WOODEN POST	EA	190
2.28	POST / ROPE	LF	380
2.29	PIPE GUARDRAIL ON SEAWALL	LF	270
2.30	WHEEL STOPS (NEW)	EA	44
2.31	BOLLARD (GALVANIZED STEEL, PAINTED)	EA	8
2.32	BOLLARD (PVC, PAINTED)	EA	4
2.33	SIGNAGE	LS	1
2.34	BENCH	EA	1
2.35	DETECTABLE WARNING	EA	8
2.36	TRAFFIC STRIPES AND MARKINGS	LS	1
2.37	FISH CLEANING STATION	EA	2
2.38	BOAT RAMP SIGN	EA	1
2.39	ELECTRIC SERVICE, SITE LIGHTING AND SIGNAGE, INCL METER	LS	1
2.40	LIGHTING ASSEMBLY (INCLUDING FIXTURE, BASE, CONDUIT, WIRES)	EA	5
2.41	TREES, CABBAGE PALMS	EA	14
2.42	SHRUBS, ALL	LS	1
2.43	GROUNDCOVER, ALL	LS	1
2.44	SODDING	SY	5160
2.45	STOCKPILE DREDGE MATERIAL ONSITE	CY	430
2.46	REMOVE AND DISPOSE OF EXIST. BOAT RAMP ITEMS (BOAT		100
	RAMP, CONCRETE SEAWALL, DEADMEN, TIEBACKS, WOOD DOCK FACILITY INCLUDING SUPPORTS AND PILES)	LS	1
2.47	EXCAVATION (FOR BOAT RAMP, DOCKS & WATER-SIDE BOAT RAMP APPROACH)	CY	430

TABULATIONS OF QUANTITIES FOR SITE IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNITS	QTY.
2.48	CONCRETE SEAWALL PANEL (INCLUDING CONCRETE CAP,		
	GEOTEXTILE)	LF	270
2.49	FILL, CLEAN (BEHIND SEAWALL)	CY	170
2.50	SOUTH SEAWALL CONCRETE DEADMAN, 10-INCH THICK,		
	3000 PSI (FOR SEAWALL)	EA	8
2.51	NORTH SEAWALL CONCRETE DEADMAN, 10-INCH THICK,		
1	3000 PSI (FOR SEAWALL)	EA	1
2.52	STEEL TIEBACK SYSTEM (304 SS BAR IN PVC CONDUIT)		
	(FOR SEAWALL)	EA	15
2.53	CONCRETE, 8.25-INCH THICK, 5000 PSI (STEEL REINFORCED) (RAMP)	SY	405
2.54	AGGREGATE, 12-INCH THICK, #57 STONE (BELOW RAMP)	SY	405
2.55	CONCRETE PANEL (AT BASE OF RAMP)	LF	47
2.56	WOOD DOCK (5 FT WIDE - TIMBER FRAME STRUCTURE WITH		
	COMPOSITE DECKING)	LF	237
2.57	FLOATING DOCK, ALUMINUM (INCLUDING 4' X 20' GANGWAY, 5' X 25'		
	FLOATING DOCK, AND HANDRAIL)	LS	1
2.58	CONCRETE PILE, PRE-STRESSED 12-INCH X 12-INCH, 5000 PSI		
	(FOR DOCK)	EA	48
3.01	DISCRETIONARY FUNDS (TESTING)	LS	1
3.02	DISCRETIONARY FUNDS (10% CONTINGENCY)	LS	1
4.00	BID AS ALTERNATIVE		
4.01	STORAGE BUILDING	LS	1



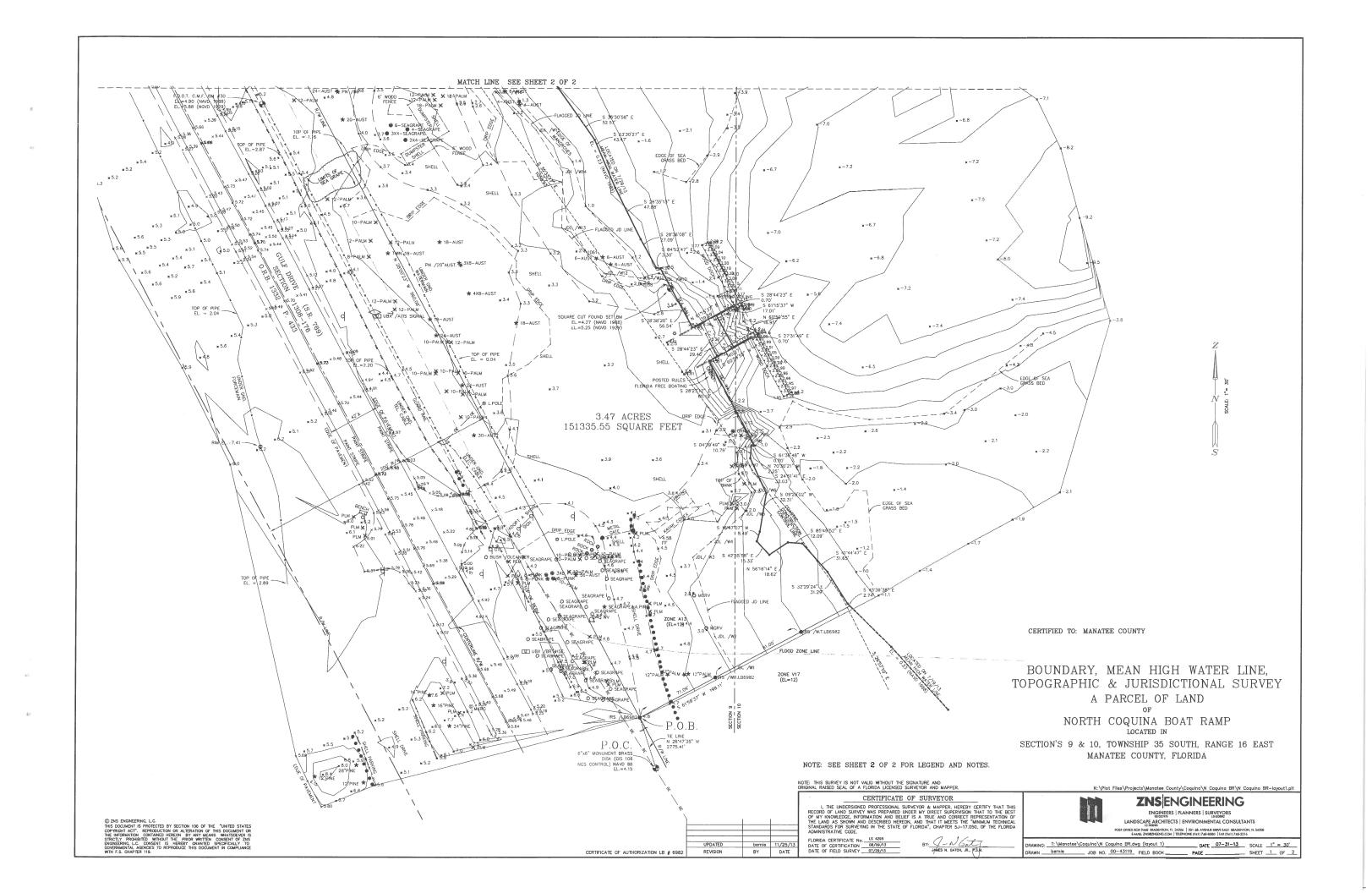
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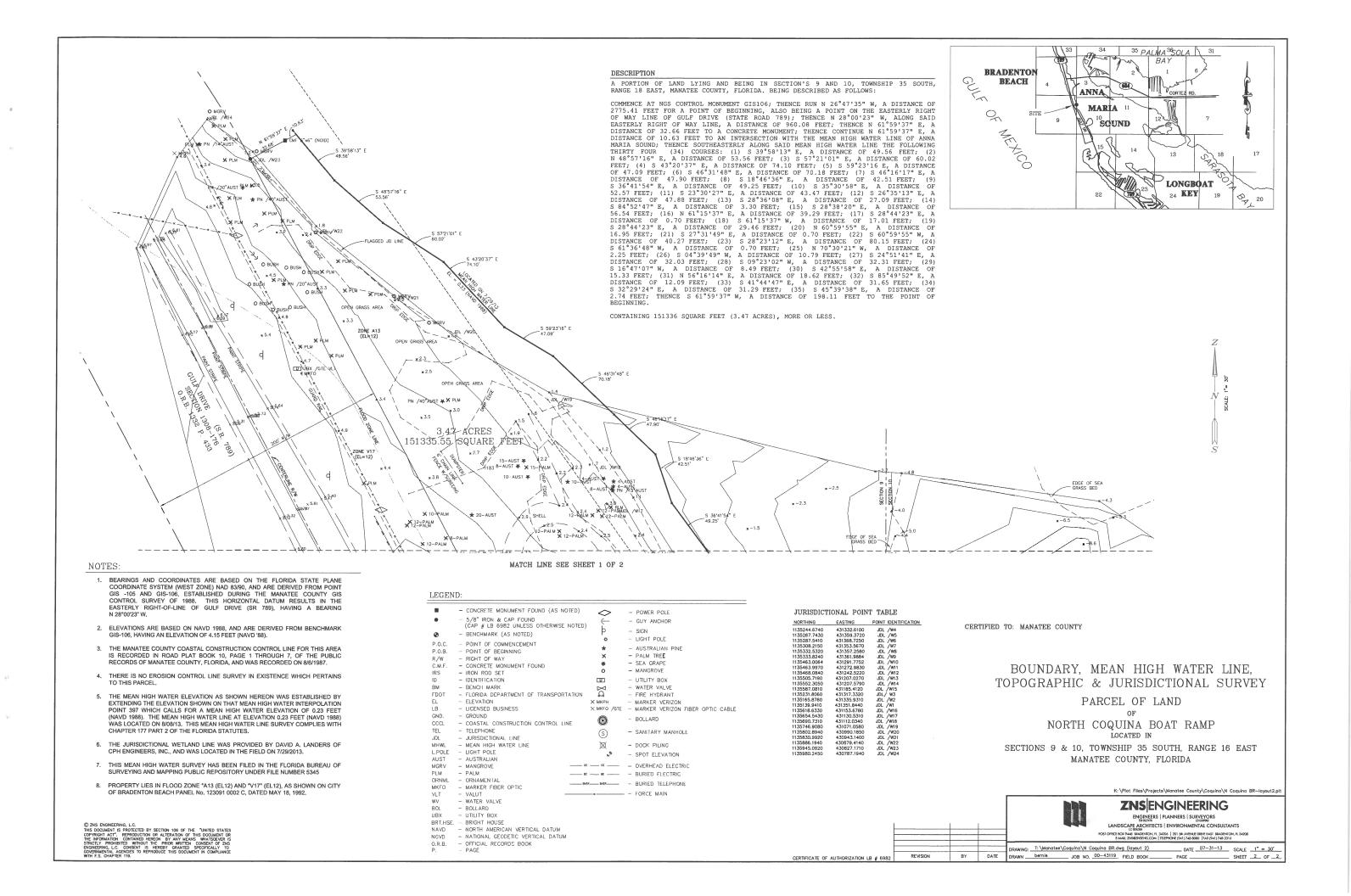
NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION

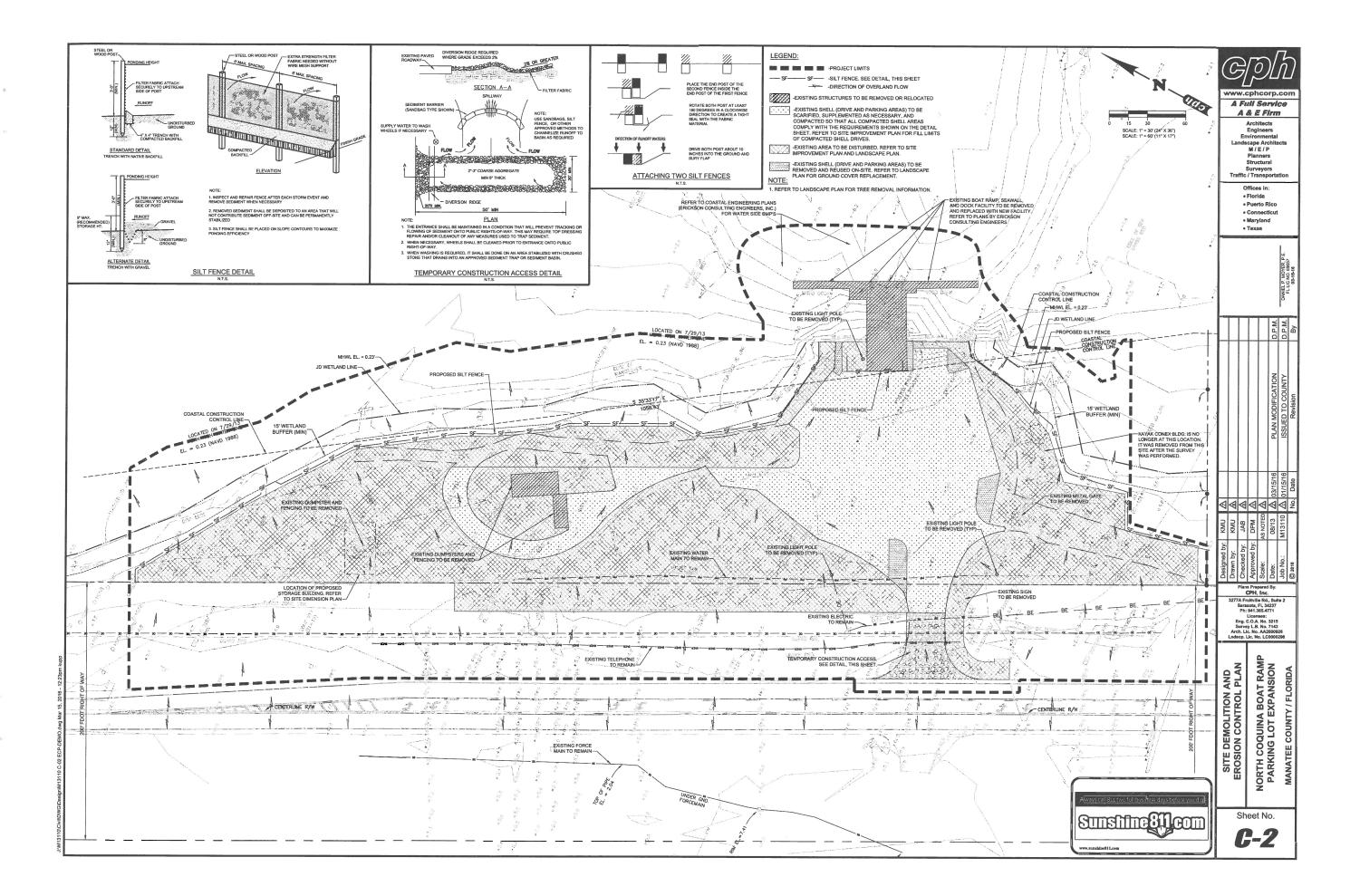
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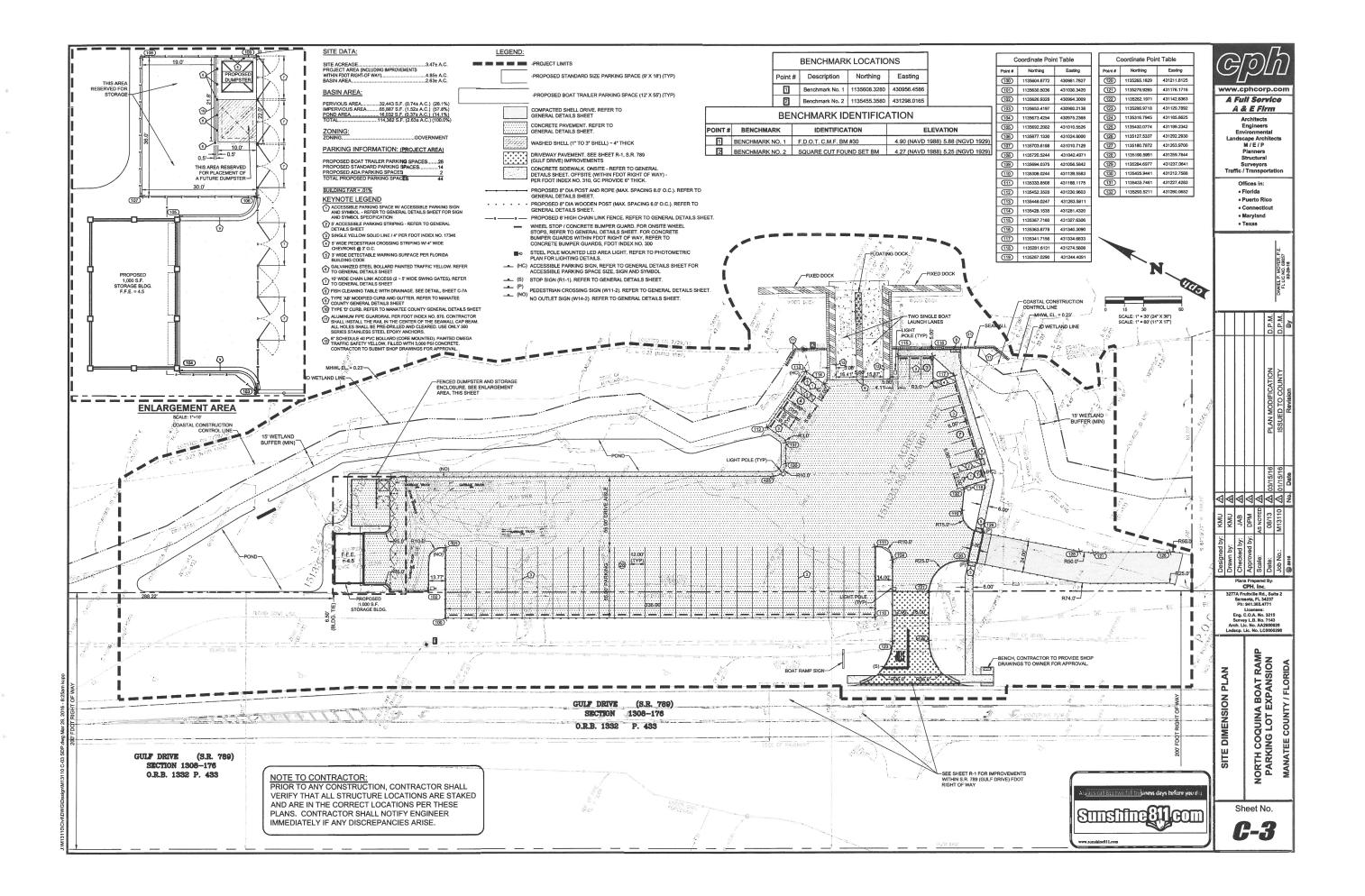
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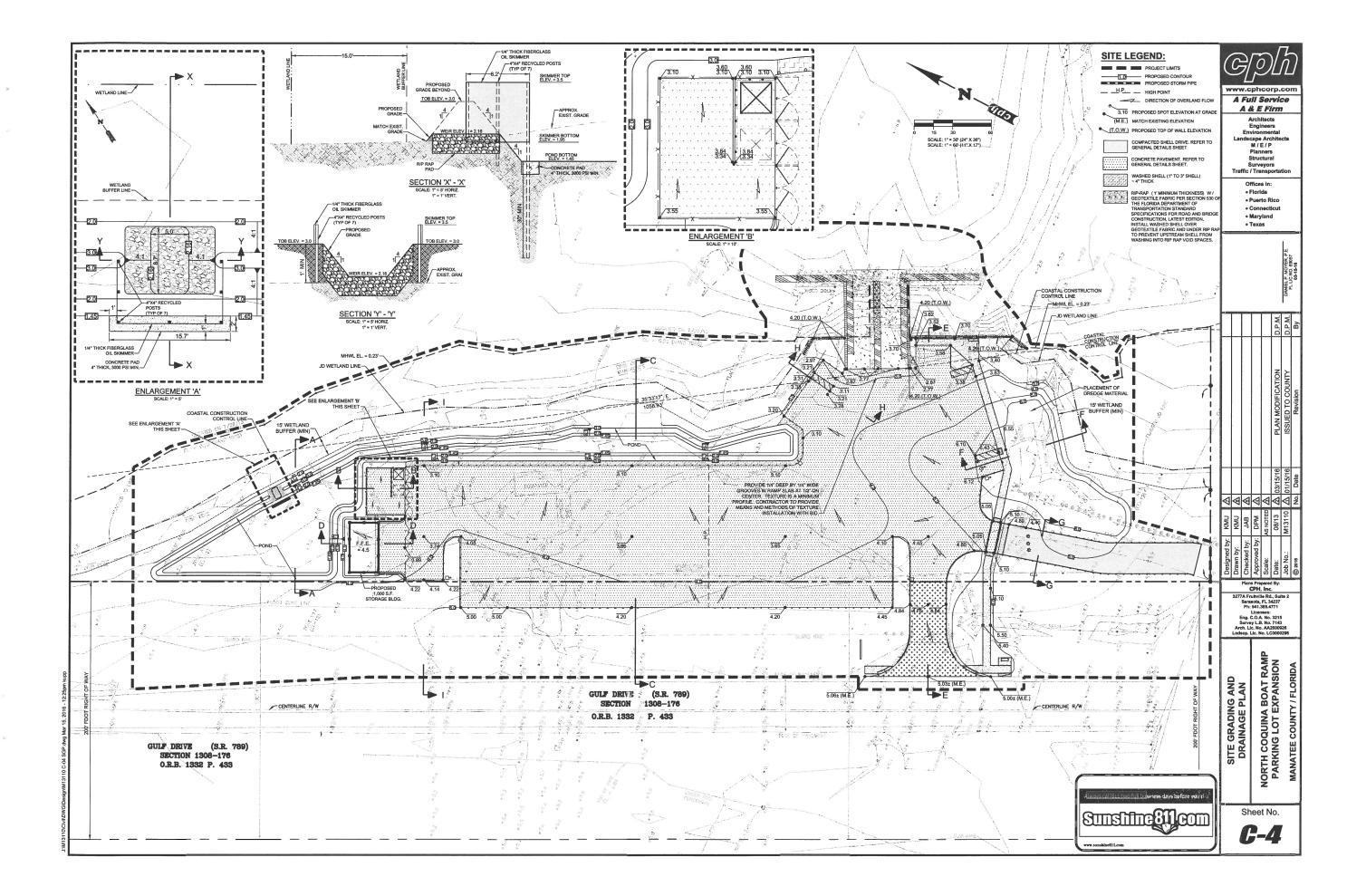


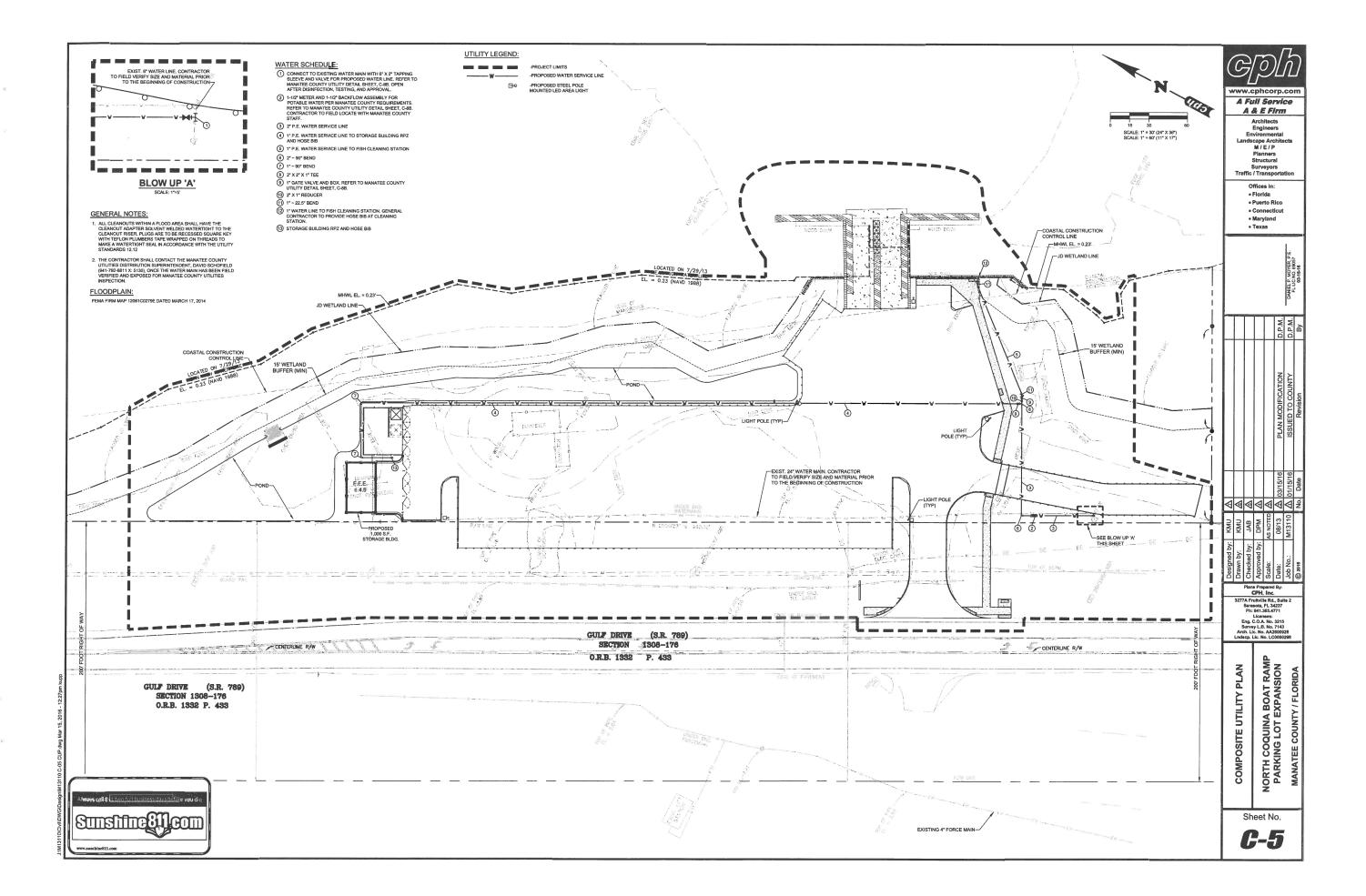


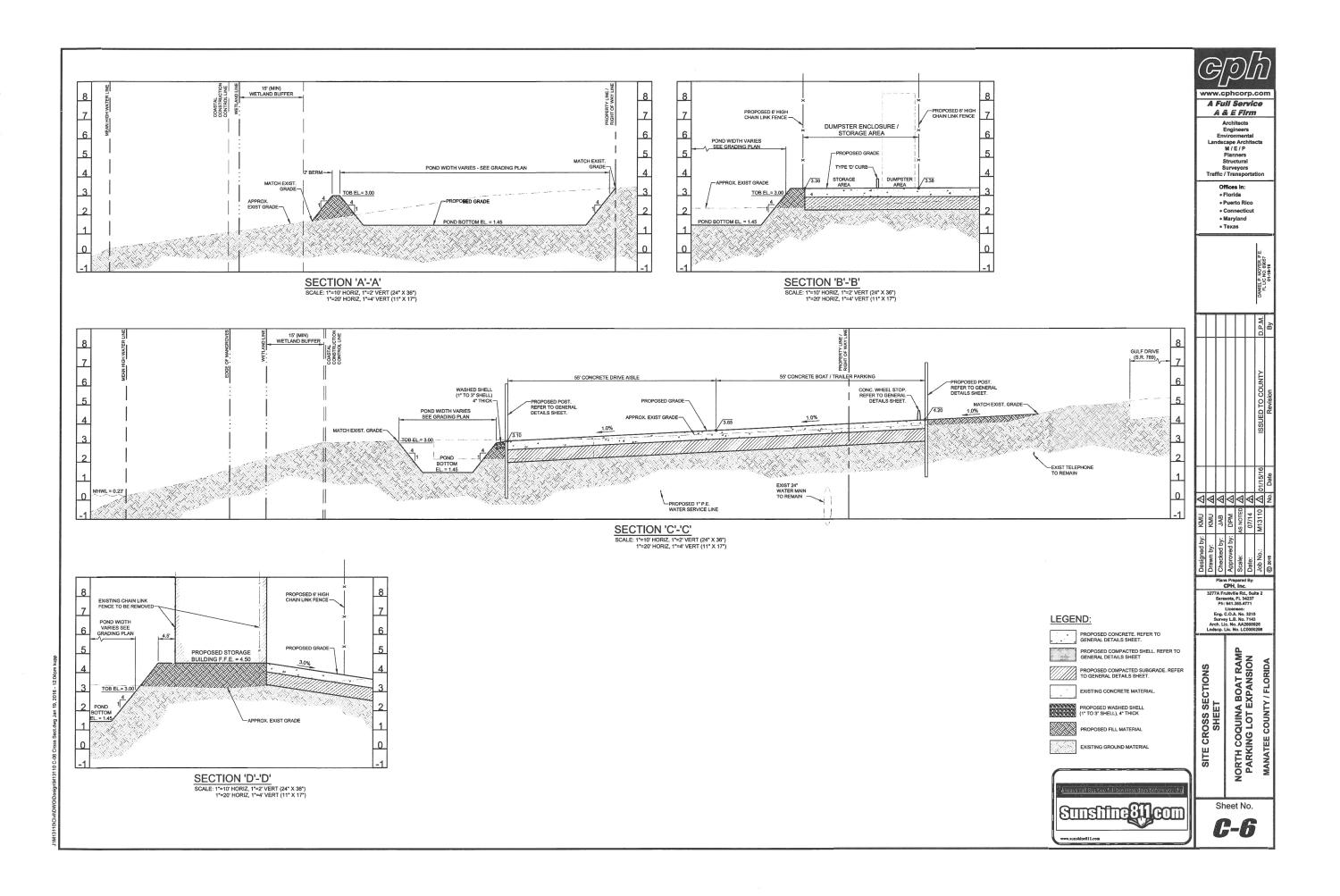


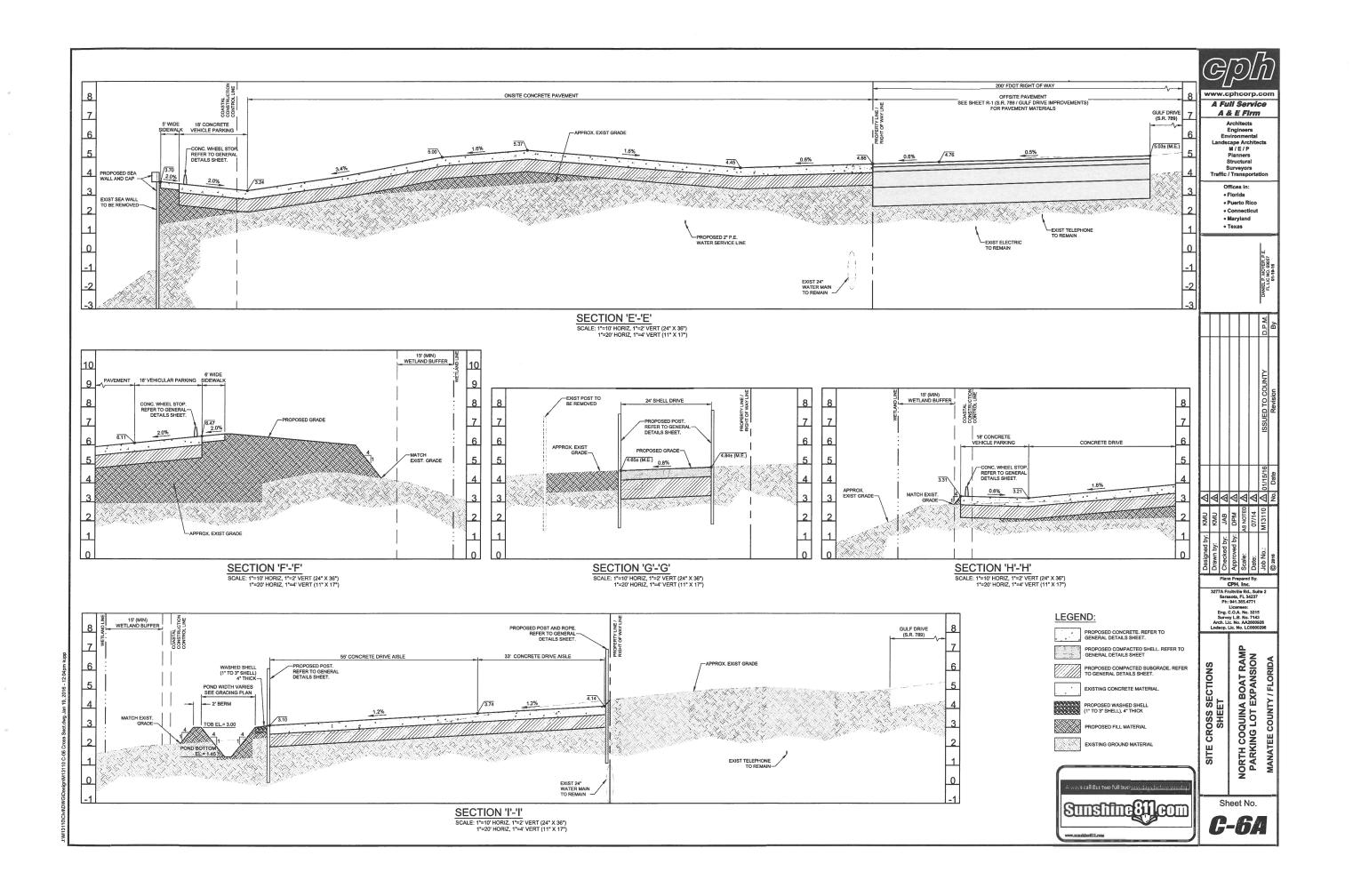


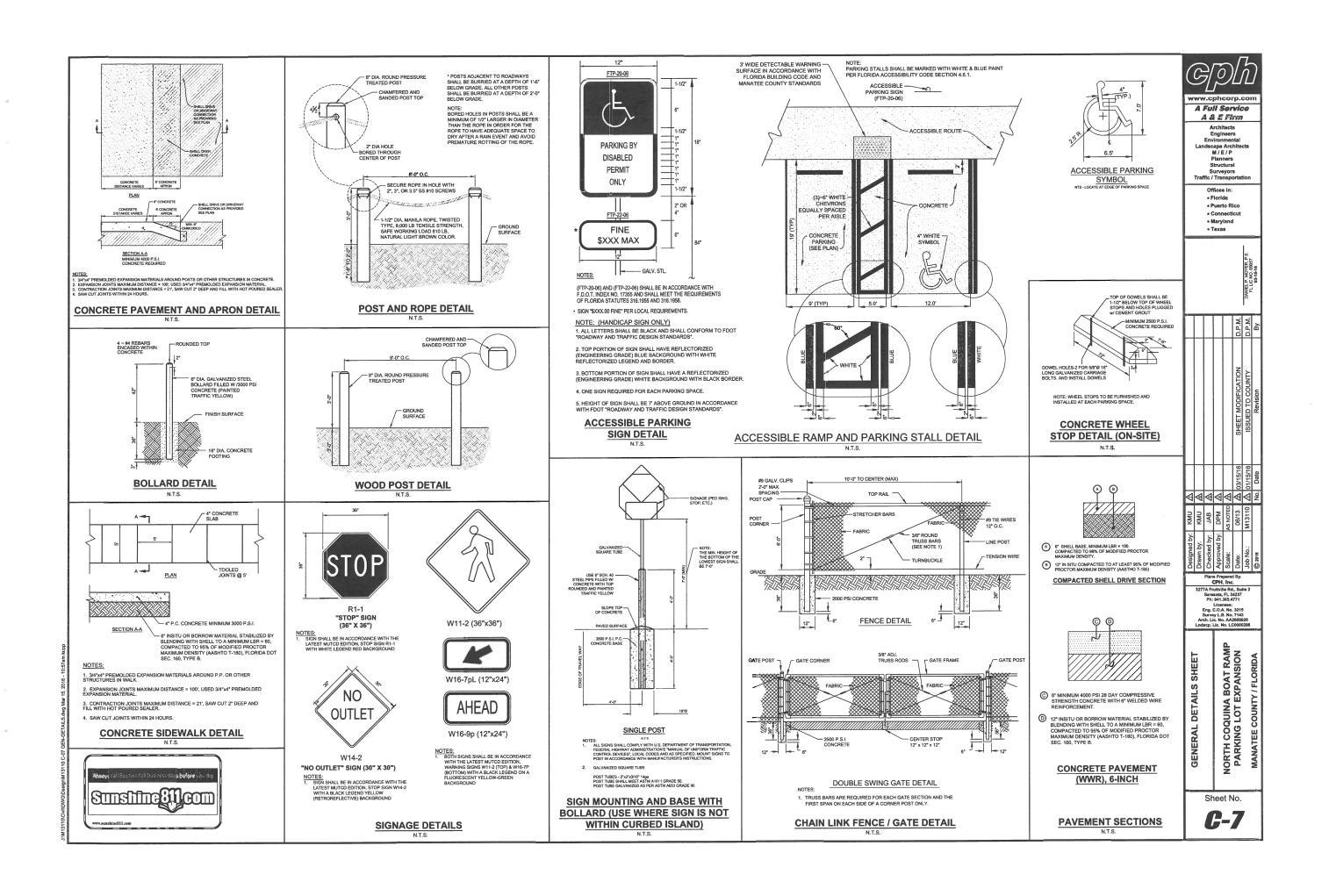




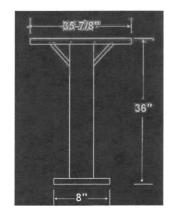








Stanchion Mounting Instructions



- 1. Position stanchion base plate approximately 2" to 3" parallel from edge of dock or at desired location.
- While holding the bracket base plate in place, make a mark onto the deck through pre-drilled base mounting hole in preparation for drilling a pilot hole.
- 3. Remove bracket. Using a 3/8" wood bit, drill a 4" deep hole on the mark made for the pilot hole
- 4. Reposition bracket over pre-drilled pilot hole.
- 5. Using a ¾" ratchet, insert ¾" x 4" wood lag into pre-drillied pilot hole and tighten.
- 6. Using a 3/8" wood bit, drill a 4" deep pitot hole through the remaining pre-drilled bracket holes.
- 7. Install and tighten remaining lag bolts.
- 8. Using a 2 foot level- check top support bracket for level side to side; slide gusset foot up or down against side bracket leg to level top support. Once level, mark position of top edge of gusser foot against side bracket. Holding gusset foot on mark, install #12 hex head self drilling screws w/neoprene washers through pre-drilled holes on gusset foot into bracket leg.
- Position the Fillei-A-WayTM lable over top support bracket aligning top bracket support pre-drilled scraw holes with
 pre-drilled pilot holes on the underside of the table deck 4" bracket support. Secure table to top bracket support using
 #8 hex head screws w/neoprene washers; leaving front edge screws slightly toose to allow for shimming for table
- 10. Using a (2) foot level Check table for pitch front to back. Along the front edge, insert plastic shims between bottom of table bracket support and top bracket support and adjust for pitch. (Table deck should be pitched slightly to the back approximately 1/8" to 1/4" to allow for water run-off.) Tighten screws once desired pitch is obtained.

CONTRACTOR SHALL FABRICATE A DRAIN TO COLLECT RUNOFF FROM THE BACK OF THE TABLE TO DRAIN INTO THE WATER. MATERIALS SHALL BE ACRYLIC TO MATCH THE SILTECH, ALONG WITH A 3" PVC DRAIN FROM THE TABLE TO WATER

Siltech



MATERIALS

- . 100% Acrylic Solid Surface Tables
- T6061 Marine Grade Aluminum Brackets
- Stainless Steel Hardware
- No Fasteners on Table Surface

ADVANTAGES



- Durable and Renewable Table Surface
- Bracket Design Eliminates Obtrusive
- · Adjustable and Removable Accessor Tray
- . Table Will Not Mold, Rot or Mildew
- UV Resistant



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100% Acrylic Solid Surface Fish Cleaning **Tables**

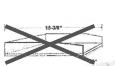


And Accessories

Available Sizes

15" x 36" Fish Cleaning Table

Mounting Brackets

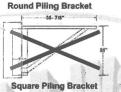


22" x 48" Fish Cleaning Table



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Stanchion Bracket

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8"---

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Round Piling Bracket \$226.00

Square Piling Bracket \$197.00

Stanchion Bracket

\$247.00 Accessory Shelf

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FISH CLEANING STATION DETAILS SHEET

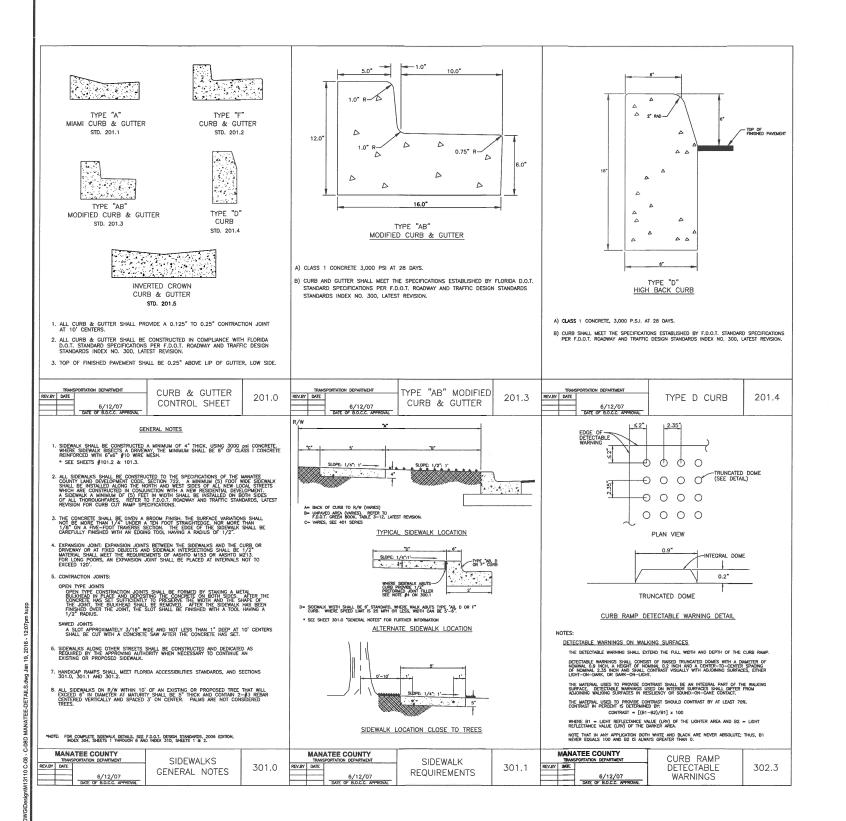
NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION

Sheet No.

C-7A

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> NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION

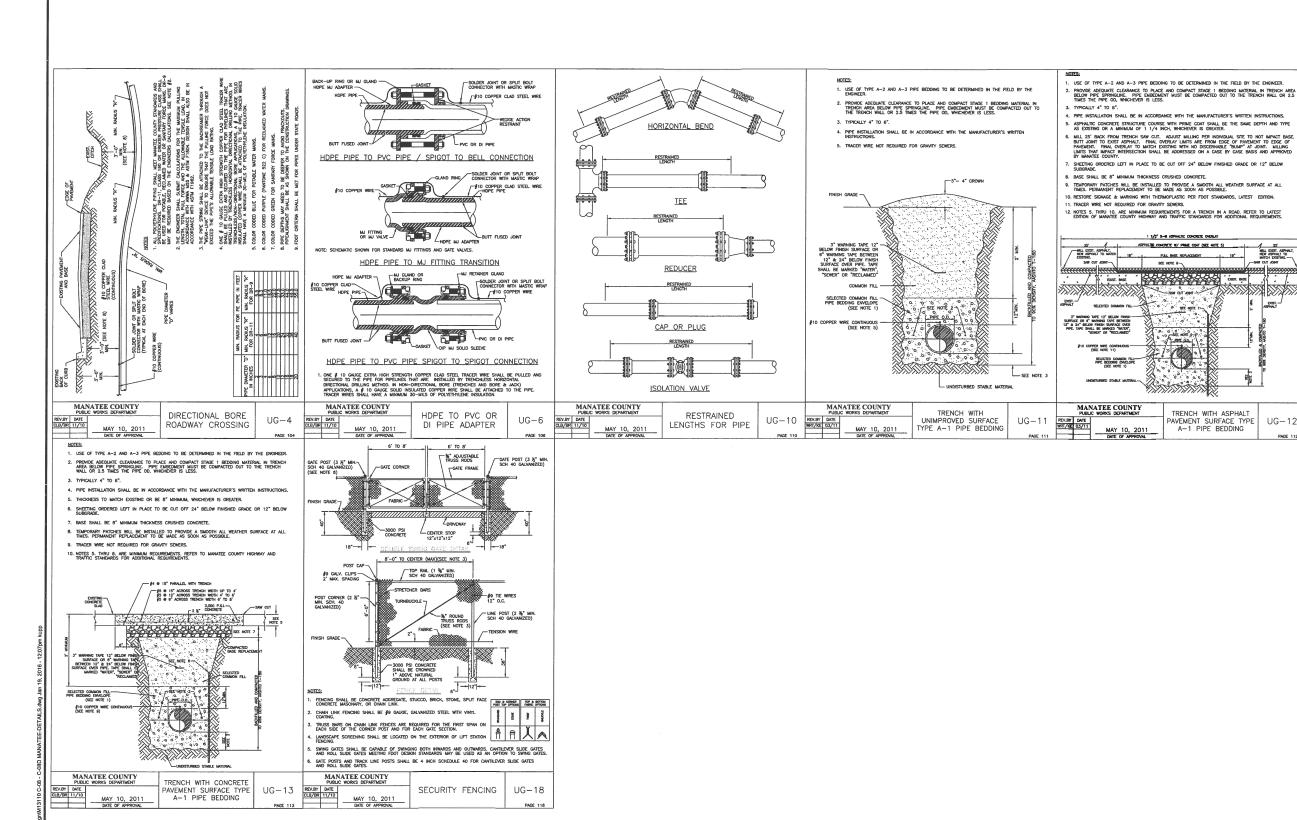
MANATEE COUNTY GENERAL DETAILS SHEET

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Sheet No.

C-8



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UG-12

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TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING

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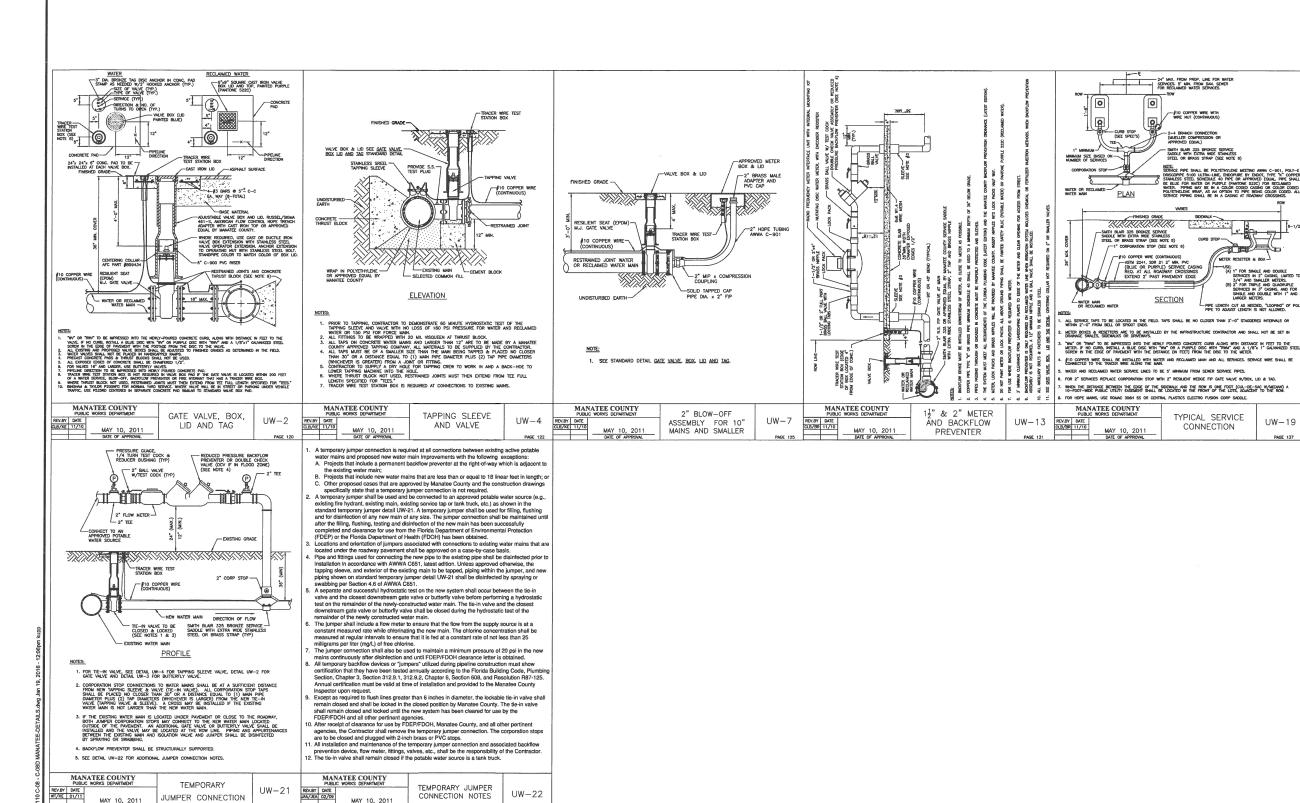
Design Drawn Check Approv Scale: Date: Job Nc Plans Prepared By CPH, Inc.

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NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION MANATEE COUNTY UTILITY DETAILS SHEET

Sheet No.

C-8A



TEMPORARY JUMPER

CONNECTION NOTES

UW-22

TEMPORARY

JUMPER CONNECTION

UW-21

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-PIPE LENGTH CUT AS NEEDED, "LOOPING" OF POL PIPE TO ADAUST LENGTH IS NOT ALLOWED.

USE:

(A) 1" FOR SINGLE AND DOUBLE
SERVICES IN 2" CASING, LIMITED TO
3/4" AND SIMILER METERS.
(B) 2" FOR TRIPLE AND QUADRIPLE
SERVICES IN 3" CASING, AND FOR
SINGLE AND DOUBLE WITH 1" AND
LIARGER METERS.

UW-19

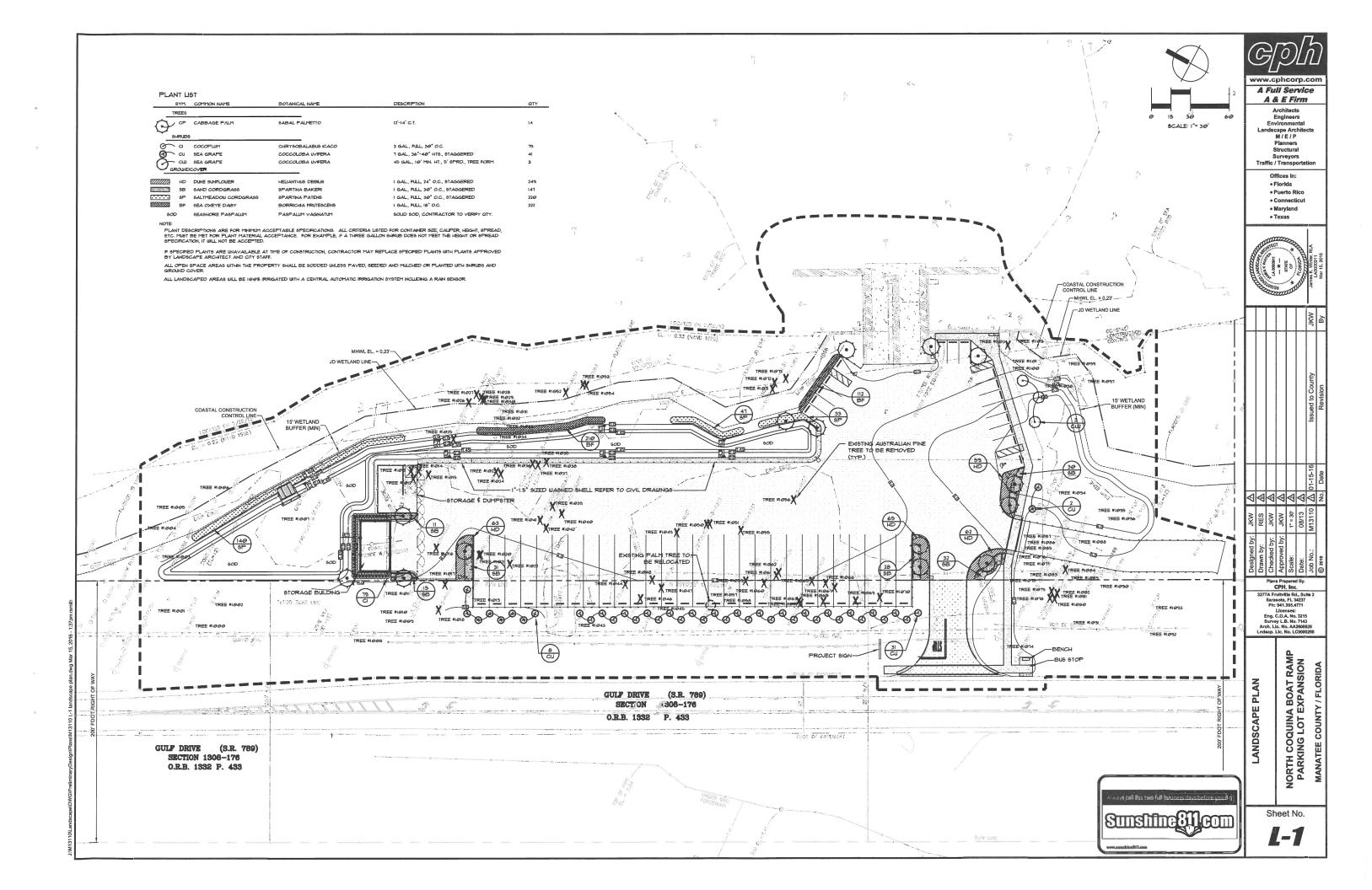
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NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION MANATEE COUNTY
UTILITY DETAILS SHEET

Sheet No.

C-8B



THE LANDSCAPE CONTRACTOR SHALL REVIEW ARCHITECTURAL/ENGINEERING PLANS AND BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES

THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFUCTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY AND PROPER LOCATION OF BRIGATION HENS AND PLANTS.

CONTRACTOR SHALL ENSURE THAT THERE ARE NO VISUAL OBSTRUCTIONS TO VEHICLE LINES OF BIGHT AND TRAFFIC CONTRACTOR SHALL RIELD ADJUST TREE AND/OR LARGE SHRUB LOCATIONS TO AVOID ANY SUCH CRESTIENCE.

ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A CLIAURED PLANTING POREHON.

ALL PLANT MATERIAL SHALL BE GRADED FLORIDA NO. I OR BETTER AS OUTUNED UNDER GRADES AND STANDARDS FOR NURSERY STOCK, PART I AND II, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

THE LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL SIONIC AND MATERIALS SHICL, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE SPECIFICATIONS

EXCEPT AS OTHERWISE SPECIFIED, THE LANDSCAPE CONTRACTOR'S WORK SHALL CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE.

THE TRENTH ACCEPTABLE SEE OF ALL PLANTS, PERSONED AFTER PROMISE, UTIL BRANCLES IN NORTHLE PROSTORS, SHALL COMPONED TO THE PLANTSHEPSITE SPECTERS OF THE PLANT SIGN OF AN ENCLATOR OF THE LANDSHEE PRAISES REGISTED AND SPECIAL PROMISES SERVER TO HAN BOOT OF THE PLANT AND HOT DUTTED BRANCH ITE TO THE. TRENS CALPER (TRENS CHATTER) IN THE ARREST IN CASE FROM THE GROUPD ON TRESS OF TO AN OF NICESON OF A NICES IN CALPER, AND IS NICHES FROM THE GROUPD ONE LANGEST RESS. SHICE TRENS ARE SELDON ROUND, THE AVERAGE OF THE LANGEST DUSTETER AND THAT PERPENDICULAR TO IN SECRETOR TO AS CALPERS.

PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE, BY BBNG THOROUGHLY WATERED AND PROPERLY MAINTAINED WITH PLANTED.

IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSESUIT TO PREVENT PLANTS PROTE FALLING OR BEING BLOW OVER, TO RESTRUCKITION AND REPLIANT ALL PLANTS WHICH LEAN OR FALL AND TO REPLICE ALL PLANTS WACH ARE DATAGRED DEL FOLKS OF PROFESSIONS OR STANDS. THE LANDSCAPE CONTRACTOR SHALL BE LEGALLY LIAR FOR ANY DAMAGE CAUSED BY RISTABLITY OF ANY PLANT HATERIAL

SMALL DE REPLACED D'I INE LINEACUATE CONTRACION AN AN ANALYSMA COST IN THE CARREST.

SOD SHALL BE CENTREDT TO BE FREED O'THE IMPROFILED RIER AIT, SOD SHALL HAVE A CHAIN RIGHTH OF ACCEPTABLE
GRASS, REAGONABLY RIESE OF WIEDO WITH NOT LIES THAN I IN' OF SOL RIPHLY ADMINIST TO ROOTS IT SHALL BE THE
REPROVISIOUTLY O'THE LANDOCAMP CONTRACTOR O'TH PRASSER AND ESTORMEN THE SOLD ANALYSMA REQUIRED. THE
REPORT OF THE LANDOCAMP CONTRACTOR SHALL REWISE ADEQUATE VERTICAL DRAMAGE IN ALL, PLANT BEDS, PLANTERS, AND SOD
AREAS, VERTICAL DRAMAGE IN HISTORICAL HOUSE ADEQUATE VERTICAL DRAMAGE IN ALL, PLANT BEDS, PLANTERS, AND SOD
DRAMAGE IN USELL DRAMAGE IN A USELL DRAMAGE IN ALL PLANT BEDS, PLANTERS, AND SOD
DRAMAGE IN USELL DRAMAGE IN A USEL DRAMAGE IN A USELL DRA

THE LANDSCAPE CONTRACTOR SHALL NISURE THAT HIS BURK DOES NOT INTERRUPT ESTABLEHED OR PROJECTED DRAMAGE PATTERNS.

THE LANDSCAPE CONTRACTOR SHALL PRIME, SHAPE AND RETWOYD DEAD POLIAGELIPED PROY ESTING PLANT HATERAL TO RETHAN. CONFRRY BITH THE LANDSCAPE ARCHITECT OR QUARR THE EXTENT OF BURK REQUIRED AT THE OF SIDDING.

MULCH - ALL PLANT BEDS SHALL BE TOP DRESSED BITH I WASHED SHELL

A. Transplanted Piaterial - The Landscape Contractor shall be responsible for detertining and evaluating uncan flast traterials are satable for transplanting and shall veight the bith the Landscape architect shall represent the satable flash transplanting and transplanting that the properties of the satable shall represent the satable flash trategial transplanting of determined that trategial. The Landscape are not taken, as septimble for replacion and relocated flash trategial uncan due for building and professional determined by the Landscape are not taken, as terthingd by the Landscape are accrited to an over replacement flash shall be of depitical species and dez for terthingd by the Landscape are described to access the state of the satable species and dez for terthings by the Landscape are described to access the satable species and described as the satable species and dez for the satable species and the satable species are species and the satable species and dez for the satable species are species and the satable species are species and the satable species and dez for the satable species are species and the species are species are species and the species are species and the species are species are species and the species are species and the species are species are species are species are species and the species are species are species are species are species a

MAINTENANCE SMALL COMMENCE AFTER EACH PLANT 16 PLANTED AND THE MAINTENANCE PERSOD SMALL CONTINUE WITH.
THE JOB OR SPECIFIC PHASE OF THE JOB IS ACCEPTED BY THE LANDSCAPE ARCHITECT OR QUINER. EXTREME CARE
SMALL BE TAKEN TO INSTRUCT THE QUINER OR HIS REPRESENTATIVES IN GENERAL HANDITSMANCE PROCEDURES.

PLANT MANTENANCE SHALL NICLIDE WATERING, PRINING, WEEDING, CULTIVATING, MUCHING, TIGHTENING, AND REPARRIOR GUITS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADES OR WIPRGMT POSITIONS AND RESTORATION OF THE PLANTING SALVERS AND ALL DIVINES CARE MEEDID FOR PROPER GROWN OF THE PLANTS.

DURNG THE MANTENANCE PERCO AND UP TO THE DATE OF RIVAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL DO ALL BEASCALL SPRAYNG AND/OR DUBINS OF REES AND SHRUBS. UPON COMPLETION OF ALL PLANTING, AN AMPRECION FOR OCCEPTANCE OF BORK WILL BE HEAD. THE LANDSCAPE CONTRACTOR WHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDILING OF THE INSPECTION 10 DAYS PROR TO THE ANTICPATED DATE.

AT THE TIME OF THE INSPECTION, IP ALL OF THE MATERIALS ARE ACCEPTABLE, A UNITED NOTICE WILL BE GIVEN BY THE LANDSCAPE ARCHITECT OR QUIVER TO THE LANDSCAPE CONTRACTOR STATING THE DATE WHEN THE MANTEMANCE PERSON DEND.

GUARANTEE AND REPLACEMENT

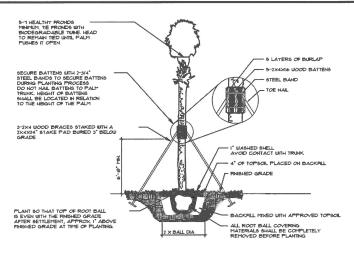
ALL PLANT MATERIALS SHALL BE GUARANTEED FOR CHE (1) YEAR FROM THE TIPE OF FINAL RISPECTION AND INTERPH ACCEPTANCE SHALL BE ALIVE AND IN SATISFACTORY GROWTH FOR EACH SPECIFIC KIND OF PLANT AT THE END OF THE GUARANTEED PERSOD.

ALL REPLACEMENTS SHALL BE PLANTED OF THE SAME KIND AND SIZE AS SPECIFIED ON THE PLANT LIST. THEY SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR

TOPSCE SHALL BE NATURAL, FRABLE, FERTLE, INELIDANT SOL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSCE, IN THE VICINITY THAT PRODUCES BEAMY GROUNT TOPSCE, BHALL HAVE A PH RANGE OF S S TO 1,4 RRSE BROWN BUSICS, CHARCONAGE BEEDS, DITTER, SOOD, SITE CLAY, STORES BLAKER THAN INSCHIL NO HAVETER, STOPS, BOYD, TRASH, TOXIC SUBSTANCES, OR ANY OTHER HATERIAL BINCH HAY SE HARPHAL TO PLANT GROUNT OR HADER PLANTING CREATIONS OF SOLD SHALL CHARLE AND HAVE THE SHALL BINCH HAVE SHALL BE CONTROLLED TO THE SHALL BE CONTROLLED TO PLANT GROUNT OR HADER PLANTING.

WHERE UNDITABILITY IS DEEPED BY OWNER OR OWNER'S REPRESENTATIVE TO BE DUE TO EXCESSIVE COPPACTION CAUGED BY HEAVY EXCEPTION AND WHERE HAVIRAUL ROBGOL BY OTHER THAN ANAITY CLASSOCIATION OF AN OR THAN ANAITY ENDITABLE TO ANAITY CLASSOCIATION OF THAN ANAITY DEPOSITION OF THE ANAITY DEPOSITION OF THAN ANAITY DEPOS

WHERE UNDITABILITY IS DEEPLED BY OWER OR CHURK'S REPRESENTANT IO SEC DUE TO PRESENCE OF GOARDS, HORTING, CAUCHET, GRADED AGGRESLATE BASE, OR CHURK CONSTRUCTION HATTRIALS IN MID GRADE AND WHERE NATURAL MISSOL IS OTHER THAN MASHING CLASSFIGATION OF OR AT REPROPER DEEPEN AND CORRECTIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AN INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AN INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AN INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AS INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AS INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AS INCIDENTAL WHICH ADDITIONAL COSTITIONABLE HATERIAL SUCH REMIEDAL MEASURES SHALL BE CONSIDERED AS INCIDENTAL WHICH ADDITIONAL COSTITIONABLE SHALL BE CONSIDERED.



PALM PLANTING DETAIL

CENTERED (TYP)

5' MINIMUM (BOTH ENDS)

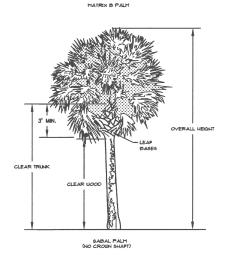
TYPICAL ISLAND PLANTING

LINES/PIPES LOCATION.

ALL TREES PLANTED IN LANDSCAPE ISLANDS OR

ANY LANDSCAPED AREAS SHOULD BE A MINIMUM OF 5' OFF OF BACK OF CURB UNLESS

ABSOLUTELY NECESSARY DUE TO UTILITY



ALL PALMS TO HAVE CLEAR WOOD INDICATED ABOVE UNLESS OTHERWISE SPECIFIED.

PALM HEIGHT/TRUNK SPECIFICATIONS

OVERALL HEIGHT(OA)
HIGHEST FORT IN THE CANOPY
MEASURED FROM THE SOL LINE TO
THE NATURAL POSITION OF THE LAST
RULT SYPANDED LEAF, UNESS
SPECIFED OFFERENTLY, THE TERM
HEIGHT, OR HEIGHT MEASUREMENTS
SPECIFED OULL BE CONSIDERED
OVERALL HEIGHT.

CLEAR TRUNK(CT)

A MEASUREMENT FROM THE SOIL LINE
TO A POINT IN THE CANOPT WHERE
THE TRUNK CALIPER BEGINS TO
TAPER ABRUPILY. OM MANY PALMS,
THIS POINT WILL LIE AT THE BASE OF THE PETIOLE OF THE THIRD OF EXPANDED LEAF.

CLEAR WOOD(CW):
A MEASUREMENT FROM THE SOIL LINE
TO THE HIGHEST POINT OF THE TRUNK
FREE OF PERSISTENT LEAF BASES. ON PALMS WITH A CROWN SHAFT. THE MEASURE WILL BE FROM THE SOIL LINE TO THE BASE OF THE CROWN SHAFT IT SHOULD BE NOTED THAT PALMS WITH VERY PERSISTENT LEAF BASES MAY NOT HAVE CLEAR WOOD.

8' LODGE POLE

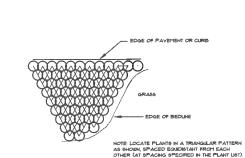
- EDGE OF ROOTBALL

DPI INSPECTION NOTES (REQUIRED)

D.P.I. PALM INSPECTION NOTE: ALL PALMS SHALL HAVE A VALID AND CURRENT STATE OF FLORIDA DIVISION OF PLANT INDUSTRY (DPI) INSPECTION CERTIFICATION PROR TO BEING TRANSPORTED TO THE CONSTRUCTION 61TE. THE DPI CERTIFICATION MUST BE SUBMITTED TO CPH AND A COPY OF THIS CERTIFICTION MUST BE PROVIDED TO THE GENERAL CONTRACTOR AND MAINTAINED WITH THE CONSTRUCTION RECORDS.

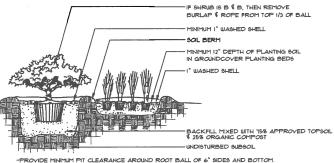
D.P.I. INSPECTION OF ALL PLANT

MATERIAL: ALL TREES, SHRUBS AND SOD WILL HAVE A VALID AND CURRENT STATE OF FLORIDA, DIVISION OF PLANT INDUSTRY FLORIDA, DIVISION OF PLANT INDUSTRY (DP) INSPECTION CERTIFICATION PRIOR TO BEING TRANSPORTED TO THE CONSTRUCTION SITE. THE DPI CERTIFICATION MUST BE SUBMITTED TO CPH AND A COPY OF THE CERTIFICATION MUST BE PROVIDED TO THE GENERAL CONTRACTOR AND MAINTAINED WITH THE CONSTRUCTION RECORDS.



SHRUB/GROUNDCOVER SPACING PLAN

CONTAINER TREE PLANTING ON SLOPE



-MAINTAIN 3"-4" MULCH FREE ZONE AROUND BASE OF PLAN

SHRUB AND GROUNDCOVER PLANTING DETAIL

TYPICAL LANDSCAPE ISLANDS



Sheet No.

NORTH COQUINA BOAT RAMP PARKING LOT EXPANSION

PLAN

ANDSCAPE

A Full Service

A & E Firm

Architects

Engineers Environmental Landscape Architects M / E / P

Planners Structural

Surveyors Traffic / Transpo

Offices in:

• Florida

• Puerto Rico

Connecticut

• Maryland • Texas

James K Winter,

A0000911, State

of Florida

ocetton: ale: 2016-01-07 09:04:26

<u> ଏକାଶକାଶକାଶ</u>

Drawn Check Appro Scale: Job N

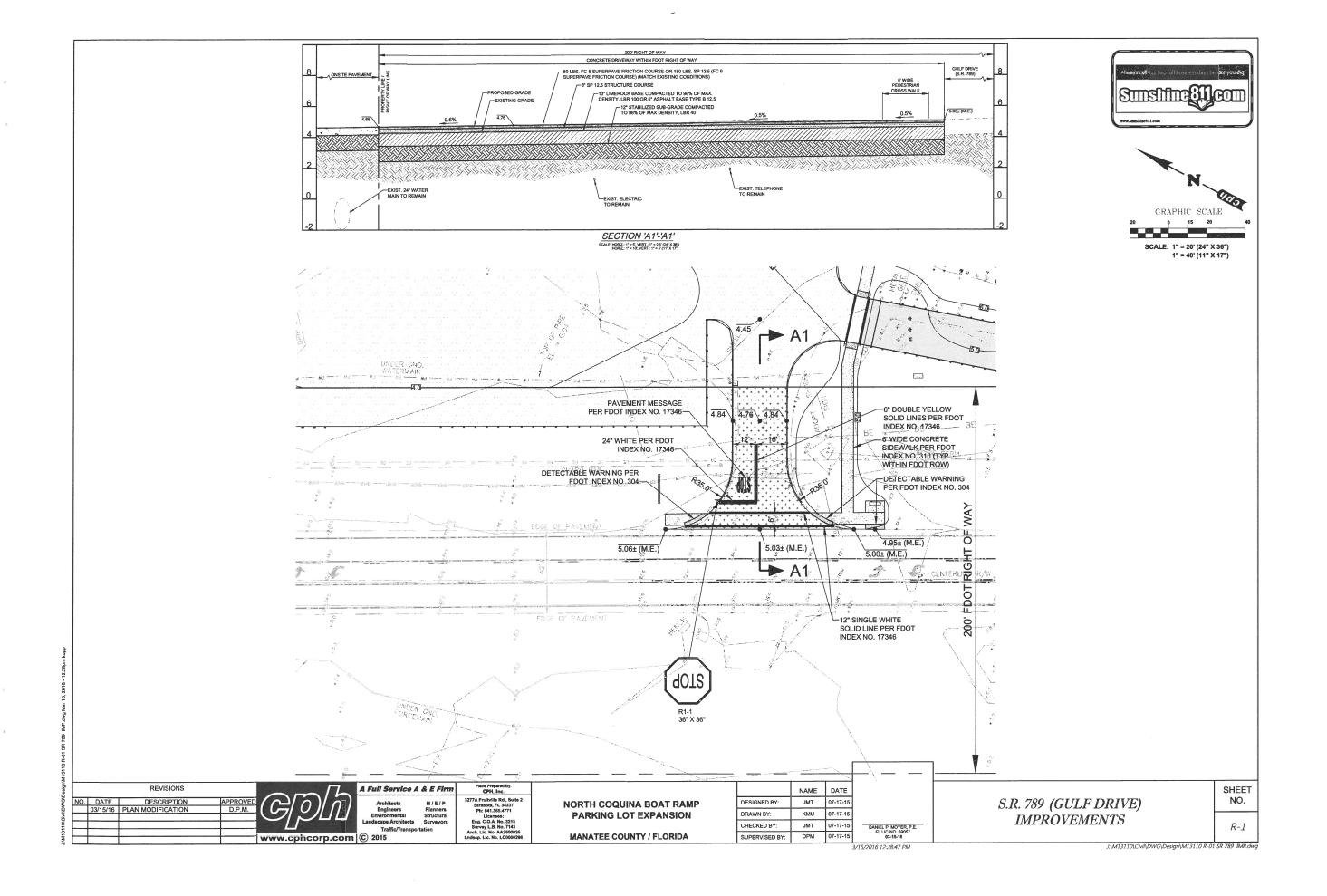
CPH, Inc.

PLAN 8" 2-PLY RUBBER HOSE DOUBLE STRAND 12 GAUGE WRI COVERED W/2-PLY RUBBER HO PAINTED FLUORESCENT ORANG - WHITE FLAGGING (TYP.) - 8' LODGE POLE - 1 INCH WASHED SHELL - 4 INCH DEEP SAUCER - BACKFILL MIX

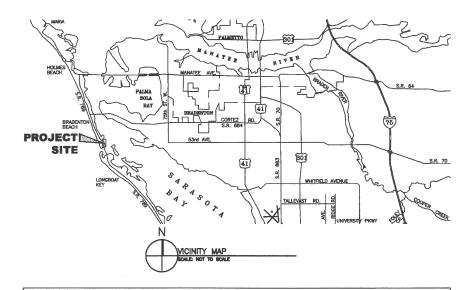
NOTES - SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE - MAINTAN 3-4 INCHES CLEAR RADIUS AROUND TRUNK.

Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298

NTS



CONSTRUCTION DRAWINGS FOR THE NEW STORAGE BUILDING AT THE NORTH COQUINA BEACH BOAT RAMP PARKING LOT



PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF IMPROVEMENTS TO AN EXISTING BOAT RAMP FOR MANATEE COUNTY GOVERNMENT. THE SCOPE OF THE
ARCHITECT IS LIMITED TO A NEW STORAGE BUILDING. THE BUILDING WILL BE OF BREAK-AWAY WALL CONSTRUCTION WITHIN A
CONGRETE FRAME ON A PILE FOUNDATION.

ELEVATION DETERMINATIONS:

FEMA (FEDERAL LOCAL)

FLOOD ELEVATION: AE EL. 11.0' NAVD

FDEP (STATE OF FLORIDA) STORM SCOUR ELEVATION:

BASIC BUILDING CODE INFORMATION: AUTHORITIES HAVING JURISDICTION: CITY OF BRADENTON BEACH

WEST MANATEE FIRE & RESCUE DISTRICT

BUILDING CODE COMPLIANCE:

FLORIDA BUILDING CODE, 5TH EDITION (2014) FLORIDA ACCESSIBILITY CODE. 5TH EDITION (2014) FLORIDA FIRE PREVENTION CODE, 5TH ED. (2014),

BASED ON NFPA 101 (2012)

CONSTRUCTION TYPE

S-2 780 GROSS

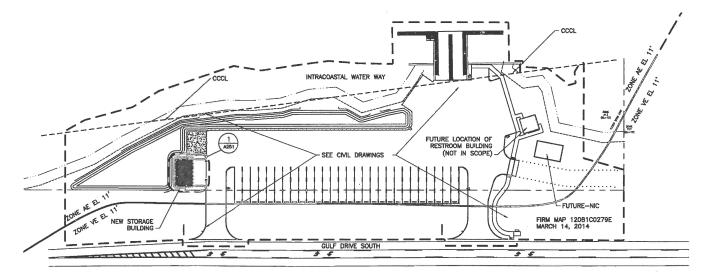
STORAGE BUILDING

SQUARE FOOTAGE: OCCUPANT LOAD:

3 (1/300SF)= 3

EXITS REQUIRED:

FIRE EXTINGUISHERS REQUIRED FOR PROJECT PER NFPA 10



10/01/15

REVISION 1 IS A RE-ISSUE OF THIS PROJECT WITHOUT THE RESTROOM BUILDING. THE ARCHITECTURAL SCOPE IS NOW LIMITED TO ONLY THE STORAGE BUILDING. THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS HAVE ALSO BEEN REVISED TO SHOW THIS REDUCTION IN SCOPE.

IN ADDITION, THE HEIGHT OF THE BUILDING HAS BEEN INCREASED APPROXIMATELY 2' TO MEET THE FDEP FLOOD ELEVATION OF 19.0' NAVD.

PRODUCT APPROVAL LIST

APPROVAL No.	MANUFACTURER	PRODUCT CATEGORY	PRODUCT MODEL # or NAME	PRESSURE PRODUCT DESIGN MAX SYSTEM PRESSURE:		APPROVAL ENTITY	EXPIRATION/ APPROVAL DATE	COMMENTS
FL-6336.2	CLINE	EXTERIOR DOORS	MODEL #100BE	+60/-60	47 PSF	FLORIDA	REVISED 06/16/2011	xx
FL-16113	OVERHEAD DOOR CORPORATION	EXTERIOR DOORS	MODEL #610	+68.9/-68.9	39 PSF	FLORIDA	APPROVED 02/04/2013	xx
FL-11903.1	MBCI	ROOF	28G 5V CRIMP	-146 PSF	-88.2	FLORIDA	APPROVED 02/22/2012	xx

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A001 COVER SHEET

ARCHITECTURAL

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A551 BUILDING AND WALL SECTIONS A801 DETAILS

A901 SPECIFICATIONS A902 SPECIFICATIONS A903 SPECIFICATIONS

> STRUCTURAL \$1.00 STRUCTURAL NOTES & SCHEDULES

S1.01 TYPICAL DETAILS

\$2.01 FOUNDATION & FRAMING PLAN S3.00 DETAILS

MECHANICAL

M201 MECHANICAL PLAN & DETAILS

ELECTRICAL

E101 ELECTRICAL SITE PLAN & DETAILS E201 FLOOR PLANS, LEGEND & NOTES E501 ELECTRICAL DETAILS

E901 ELECTRICAL SPECIFICATIONS



134 9th AVENUE WEST PALMETTO, FLORIDA 34221 HONE (941)729-5691 - AA-C001654 -

> SHEET COVER

MC COQUINA NORTH STORAGE BLDG

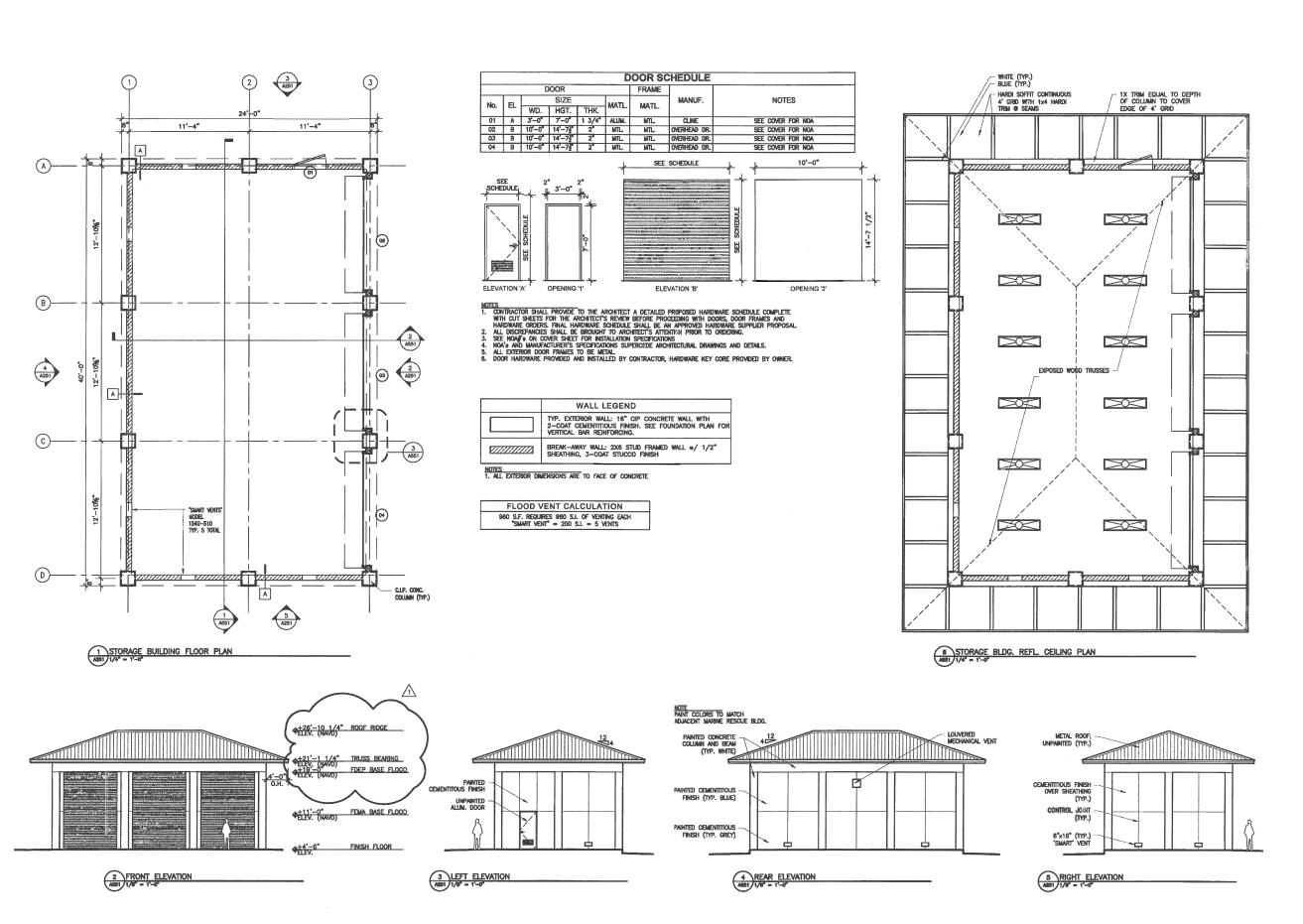
REVISIONS 10/01/15

DATE: 04/02/1: DRAWN BY: CU/BL CHK'D BY: DB/CU



SHEET

A001



UGARTE ARCHITECTURE

434 9th AVENUE WEST PALMETTO, FLORIDA 34221 PHONE (841)729-5691 FAX (841)729-56892 www.ugartearchitecture.com — AA-C001634 —

AND

FLOOR PLAN STORAGE I

COQUINA NORTH STORAGE BLDG

REVISIONS

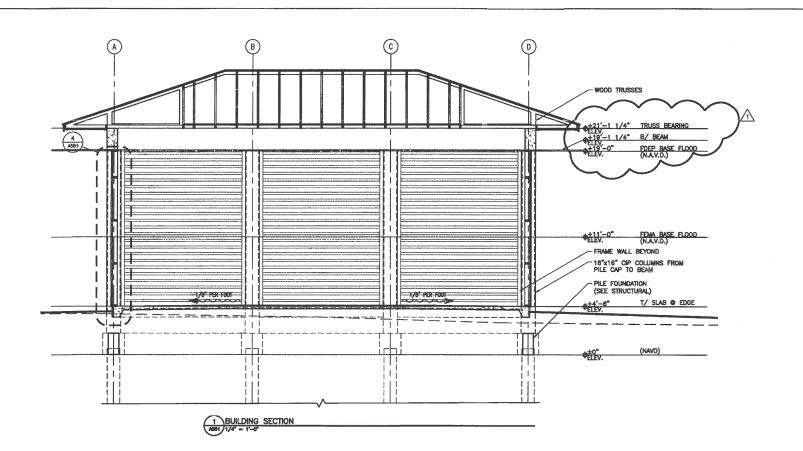
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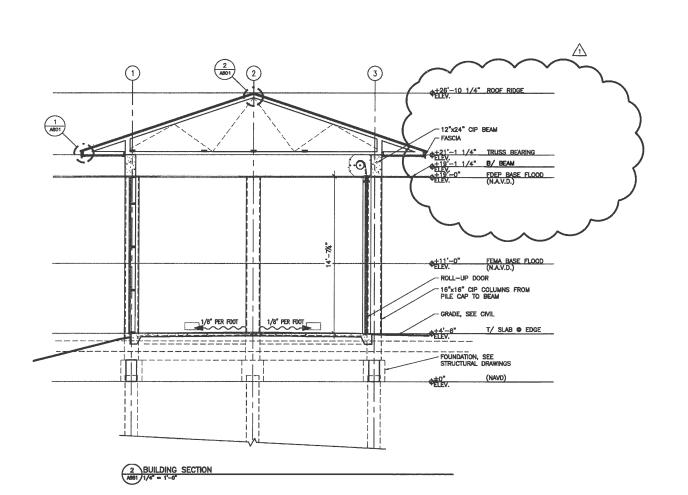
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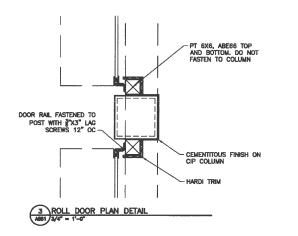
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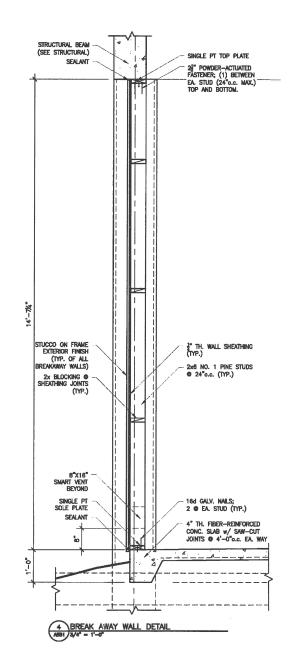
CARLOS D. UGARTE LIC. NO. AR-0010725

SHEET A251











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SECTIONS BUILDING S & DETAILS STORAGE

MC COQUINA NORTH STORAGE BLDG

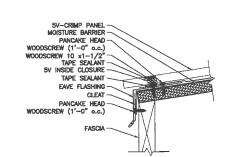
REVISIONS 10/01/15

PROJECT NO: 2013-31 DATE: 04/02/15 DRAWN BY: CU/BL CHK'D BY: CU/DB

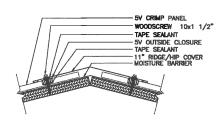


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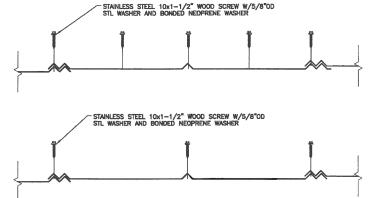
A551



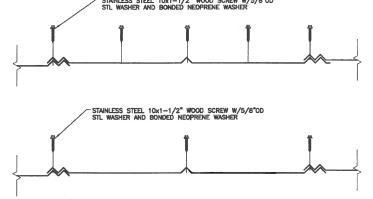








3 FASTENING PATTERNS
ABOUT 3" = 1'-0"



- ROOFING PANEL NOTES:

 1. SV CRIMP METAL ROOFING SYSTEM, 28GA, AS MANUFACTURED BY 'MBCI.'

 2. SEE COVER SHEET FOR MIAMI-DADE CO. NOA!

 3. INSTALL ACCORDING TO THE PRODUCT APPROVAL.

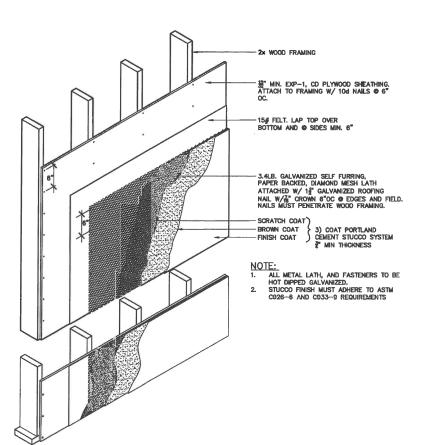
 4. DRAWINGS ARE NOT TO BE SCALED. CONTACT ARCHITECT FOR ANY DIMENSION NOT SHOWN.

 5. COORDINATE COLOR WITH OWNER OR OWNERS REP.

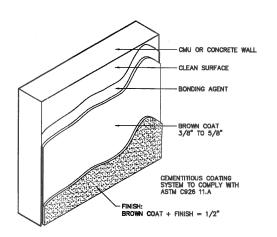
RIDGE/HIP COVER FASTENED FASTENED PER MNFR'S INSTRUCTIONS - 5V-CRIMP PANELS FASTENED PER MNFR'S PRODUCT APPROVAL AND INSTALLATION INSTRUCTIONS, ALSO SEE PRODUCT APPROVAL LIST ON COVER SHEET TRUSS SYSTEM "POLYSTICK MTS' SELF ADHERED
MOISTURE BARRIER 6" MIN. LAP
FASTENED W/ \$ PLASTIC CAP NAILS
AS NEEDED TO HOLD DOWN PER
MISTRUCTIONS FOR FLORIDA
PRODUCT APPROVAL SHEATHING— SEE ROOF FRAMING NOTES ON SHEET \$2.00 NOTE: SEE PROVIDED PRODUCT APPROVAL WITH INSTALLATION GUIDELINES SHOWING COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODE.

4 ROOF PLAN DETAIL

EAVE FLASHING W/5V INSIDE CLOSURE



5 3 COAT APPLICATION OVER SHEATHING



8 2 COAT APPLICATION OVER MASONRY

10/01/15

REVISION 1 REFERS TO THE RE-ISSUE OF THIS SET. THERE ARE NOT CHANGES TO THESE DETAILS

MC COQUINA I STORAGE B REVISIONS 10/01/15

PROJECT NO: 2013-31 DATE: 04/02/15 DRAWN BY: CU/BL CHIND BY: CU/DB



A801

UGARTE & ASSOCIATES, INC. ARCHITECTURE PLANNING 434 9th AVENUE WEST PALMETTO, FLORIDA 34221 PHONE (941)729-5691 FAX (941)729-5692 WWW.UGARTEARCHITECTURE.COM - AA-C001654 -

DETAILS

A NORTH BLDG

DIVISION 5 - METALS

DIVISION 6 - WOOD, PLASTIC AND COMPOSITES

SECTION 06 10 00 - ROUGH CARPENTRY

- 1.2 ACTION SUBMITTALS
 A PRODUCT DATA: FOR EACH TYPE OF PROCESS AND FACTORY-FABRICATED PRODUCT, INDICATE
 COMPONENT MATERIALS AND DIMENSIONS AND INCLUDE CONSTRUCTION AND APPLICATION DETAILS.

 1. INCLUDE DATA FOR WOOD-PRESERVATIVE TREATMENT PROVINCEMENT TREATMENT
 MANAFACTURER AND CERTIFICATION BY THEATMENT PLAYER THAT TREATES MATERIALS COMPLY WITH
- RE L'AINEUX.

 POR PRODUCTS RECEIVING A WATERBORNE TREATMENT, INCLUDE STATEMENT THAT MOISTURE CONTENT OF TREATED MATERIALS WAS REDUCED TO LEVELS SPECIFIED BEFORE SHIPMENT TO PROJECT SITE OF THE ATEN ATTENDED TO THE OF TH

DELIVERY, STORAGE, AND HANDLING
STACK LUMBER FLAT WITH SPACES BENIEATH AND BETWEEN EACH BUNDLE TO PROVIDE AIR
CROULATION, PROTECT LUMBER FROM WEATHER BY COVERING WITH WATER-PROOF SHEETING,
SECURELY ANCHORED, PROVIDE FOR A

- 2.1 WOOD PRODUCTS, GENERAL.

 A LLAMBER, DOOR BY MAN ASPICABLE RILLES OF GRADING AGENCIES INDICATED. IF NO GRADING
 AGENCY IS INDICATED, PROVIDE LUBIERT THAT COMILES WITH THE APPLICABLE RILLES OF ANY
 RILLES WATHING AGENCY CERTIFIED BY THE ALSO BOARD, OF REVIEW, PROVIDE LUBIERT GRADED
 AGENCY CERTIFIED BY THE ALSO BOARD OF REVIEW TO INSPECT AND GRADE LUMBER UNDER THE
 RILLES INDICATED.
- AESINDICATED. AT THESE OF LUMBER WITH GRADE STAMP OF GRADING AGENCY.
 WHOSE NOMINAL BOLD HESE OF LUMBER WITH GRADE STAMP OF GRADING AGENCY.
 WHOSE NOMINAL BUTS ARE INDICATED, PROVIDE ACTUAL SIZES REGULATED BY DOC PS 20 FOR
 DRIESSED DUSTES FOR DRY LUMBER. HERE ACTUAL BUTS ARE INDICATED, THEY ARE INMINIAL
 PROVIDE DRESSED LUMBER, SHS, UNLESS OTHERWISE HOICATED.

 WHOM THE CONTENT OF LUMBER: 19 FERCENT, UNLESS OTHERWISE INDICATED.

- 2.2 WOOD-PRESERVATIVE-TREATED LUMBER
 A PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AMPA U; USE CATEGORY UC2. FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, USE CATEGORY UC36. FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.

 1. PRESERVATIVE OF CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO AGROON GROWN OF A TIERY TREATMENT TO A MAXIMUM MOSTURE CONTITUTE OF IN PRESERVATION. ON ON THE CAME AND A STATE OF THE AMERICAN OF THE CONTAINING MOSTURE CONTROL OF IN PRESERVATIVE OF THE PRESERVATION OF THE CAME AND THE AMERICAN OF THE CAME AND THE AMERICAN OF THE CAME AND THE AMERICAN OF THE AMERICAN OF THE CAME AND THE AMERICAN OF THE CAME AND THE AMERICAN OF THE AMERICAN OF THE CAME AND THE AMERICAN OF THE AMERI
- MATERIAL. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSC
- NACL OF REVIEW. PLICATION: TREAT ALL ROUGH CARPENTRY UNLESS OTHERWISE INDICATED. WOOD FRAMING AND FURRING ATTACHED DIRECTLY TO THE INTERIOR OF BELOW-GRADE EXTERIOR
- VACOU PROMING AND PORTING A I FIGHED DIRECTLY TO THE INTERIOR OF BELOW-GROUP EXTERIOR MASONITY OR CONCRETE WALLS.

 WOOD FRAMING MEMBERS THAT ARE LESS THAN 18 INCHES ABOVE THE GROUND IN CRAWLSPACES OR IMPECAVATED AREAS.
- DIMENSION LUMBER FRAMING
 LOAD-BEARING PARTITIONS: NO.2 GRADE.
 1. APPLICATION: WALLS.
 2. SPECIES:

- a. SPRUCE-PINE-FIR (SOUTH): NELMA, WILLB, OR WMPA

2.4 FASTENERS

- FASTEMERS (SENERAL PROVIDE FASTEMERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.

 1. WHERE ROADH CARPENTRY IS EXPOSED TO MEATHER, IS IN GROUND CONTACT, IS IN CONTACT WITH PRESSURE-PRESERVATIVE RESTED ELEMENTS, OR IS IN AN AREA OF HIGH RELATIVE HUMBOTY. PROVIDE FASTEMERS WITH A HOT-DIPPED ZINC CONTING COMPLYING WITH ASTIN A 153 / A
- B. USE STAINLESS STEEL FASTENERS WITH STAINLESS STEEL ANCHORS
- NAILS, BRADS, AND STAPLES: ASTM F 1667 POWER-DRIVEN FASTENERS: NES NER-272.
 LAG BOLTS: ASME BI8,2.1.

- ALLOWABLE DESIGN LOADS: PROVIDE PRODUCTS WITH ALLOWABLE DESIGN LOADS, AS PUBLISHED BY MANUFACTURER THAT MEET OR EXCEED THOSE INDICATED. MANUFACTURER'S PUBLISHED VALUES SHALL BE DETERMINED FROM EMPIRICAL DATA OR BY RATIONAL ENGINEERING ANALYSIS AL DEMONSTRATED BY COMPREHENSIVE TESTING PERFORMED BY A QUALIFIED INDEPENDENT

MISCELLANEOUS MATERIALS

28 MIGUELINGUIS MICHEULES

REUSBERGEZD-ASHMAT COMPOSITE, SELF-ADHESIVE, FLASHING PRODUCT CONSISTING OF A PLIABLE, RUBBERGEZD-ASHMAT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHY-LENE FILM, ALLMINUM FOLD OR SPUN-BONDED DOLY-OTEN TO PRODUCE AN OVERALL HIGHOWESS OF NOT LESS TIMAN LOZS INCH.

PART 1. EXECUTION

- 3.1 INSTALLATION, GENERAL

- 9.1 INSTALLATION, GENERAL
 A. FRAMING STADARD: COMPLY WITH AFAPA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME
 CONSTRUCTION," UNLESS OTHERWISE NOICATED.
 B. METAL FRAMING ANCHORS: INSTALL METAL FRAMING ANCHORS TO COMPLY WITH MANUFACTURER'S
 WRITTEN INSTRUCTIONS. INSTALL FAST ENERS THROUGH FACH FASTENER HOLE.
 SORT AND BE-SCH TLUBBERS OF DIHTAT HAT LIVEN CAMPACTERSTROS WILL NOT INTERFERS WITH
 INSTALLATION OR WITH FASTENING OTHER MATERIALS TO LUMBER. DO NOT USE MATERIALS WITH
 DEFECTS THAT INTERFERS WITH FLANCTION OF MEMBERS OR PECES THAT ARE TOO SMALL TO USE WITH
 MINIMUM NUMBER OF JOINTS OR DETIMUM JOINT ARRANGEMENT.
 COMPLY WITH AMPAIN FOR PREVIOUS FIELD THEATMENT TO GUT SURFACES OF
 PRESERVATIVE TREATED LUMBER.
 1. ILIES RICHARDS DEFORM FOR THESE TOOL THAT ARE COUNTING THE FROM HOUR WATER
 1. ILIES RICHARDS DEFORM FOR THESE THAT ARE COUNTING HIS Y PROTECTED EROM HOUR WATER
 1. ILIES RICHARDS DEFORM FOR THESE THAT ARE COUNTING HIS Y PROTECTED EROM HOUR WATER
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 1. ILIES RICHARDS DEFORM FOR THE THAT THAT ARE COUNTING HIS Y PROTECTED FROM HOUR WATER

 1. ILIES RICHARDS DEFORM FOR THE THAT THAT ARE COUNTING HIS Y PROTECTED.
- USE INORGANIC BORON FOR ITEMS THAT ARE CONTINUOUSLY PROTECTED FROM LIQUID WATER. 1. USE CHORMANIE SORON FOR TEMS THAT ARE CONTINUOUSLY PROTECTED FROM LIQUID WATER.
 2. USE COPPER MAPHTHENATE FOR ITEMS NOT CONTINUOUSLY PROTECTED FROM LIQUID WATER.
 E. SECURELY ATTACH ROUGH CAPPENTRY WORK TO SUBSTRAYE BY ANCHORING AND FASTENING AS NOTICATED, COMPLYING WITH THE FOLLOWING.

 1. NEO NETWATE FOR POMER-URIVER FASTENERS.
 2. TABLE 2049 3.1, "ASTENING SCHEDULE," IN ICCS INTERNATIONAL BUILDING CODE.
 3. TABLE ROSC 3(1), "ASTENING SCHEDULE," IN ICCS INTERNATIONAL REVISIONS," AND TABLE ROSC 3(2), "ALTERNATE ATTACHMENTS," IN ICCS INTERNATIONAL RESIDENTIAL CODE FOR ONE. AND TWO-FAMILT DWILLIAMS.

 THE THAT THE TOP TO THE TOP TO

- TWO-FAMILY DWELLINGS.

 USE STEEL COMMON NAULS UNLESS OTHERWISE INDICATED. SELECT FASTENERS OF SIZE THAT WILL NOT FILLLY PENETRATE REMISERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVED HATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD. DRIVE NAULS SINUS BUT DO NOT COUNTERSINK MAIL HEADS, UNLESS OTHERWISE.
- WALL AND PARTITION FRAMING INSTALLATION
 GENERAL: PROVIDE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATES USING MEMBERS OF 2-INCH
 NOMINAL THICKNESS WHOSE WIDDIES GOULD THAT OF STUDS, EXCEPTION; SINGLE TOP PLATE MAY BE
 USED FOR NON-LOAD-BEARING PARTITIONS, FASTEN PLATES TO SUPPORTING CONSTRUCTION, UNLESS
 OTHERWISE BOICKTED.
- FOR EXTERIOR BREAKAWAY WALLS, PROVIDE 2-BY INCH NOMINAL-SIZE WOOD STUDS SPACED 24 INCHES ON CENTER, UNLESS OTHERWISE INDICATED, PROVIDE STRAIGHT, DRY NO.1 PT PINE.

- 3.3 PROTECTION
 A. PROTECT WOOD THAT HAS BEEN TREATED WITH INGRCANIC BORON (BBX) FROM WEATHER. IF, DES PROTECTION, NORGANG BORON-TREATED WOOD BECOMES WET, APPLY EPA-REGISTERED BORATT TREATMENT. APPLY BORATE SOLUTION BY SPRAYING TO COMPLY WITH EPA-REGISTERED LABEL.
 PROTECT ROUGH CAPPENTRY PROM WEATHER, IF, DESPITE PROTECTION, ROUGH CAPPENTRY BECOMES WET, APPLY EPA-REGISTERED BORATE TREATMENT APPLY BORATE SOLUTION BY SPRAY TO COMPLY WITH EPA-REGISTERED MEDIATE TREATMENT APPLY BORATE SOLUTION BY SPRAY TO COMPLY WITH PEPA-REGISTERED MEDIATE.

END OF SECTION 06 10 00

SECTION 06 17 50 - SHOP-FABRICATED WOOD TRUSSES

ACTION SUBMITTALS

- ACLIENT SUSBILITATION FABRICATION AND INSTALLATION DETAILS FOR TRUSSES.

 1. SHOW LOCATION, PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED.

- BUNGLING UP INVIVAUAL INCISI MEMBERS DU DE DESIGN LOADS.

 A INDICATE TYPE, BUZE, METRALL, FINISH, DESIGN VALUES, ORIENTATION, AND LOCATION OF METAL CONNECTOR PLATES.

 B. DELEGATED DESIGN SUSMITTAL: FOR METAL-PLATE-CONNECTED WOOD TRUSSES INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDIONS ANALYSIS DATA SIXNED AND SCALLED BYTHE QUALIFIED PROFESSIONAL ENVINEER RESPONSIBLE FOR THEIR
- DELIVERY, STORAGE, AND HANDLING HANDLING HANDLE AND STORE TRUBESES TO COMPLY WITH RECOMMENDATIONS IN THE BOSI, "BUILDING COMPONENT SHE'Y IN PORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRUNING, A BRACING METAL PLATE CONNECTION WOOD TRUBESES."

 I. STORE TRUSES PLAT, OF OR GROUND, AND ADECUATELY SUPPORTED TO PREVENT LATERAL.
- BENDING.
 PROTECT TRUSSES FROM WEATHER BY COVERING WITH WATERPROOF SHEETING, SECURELY ANCHORED. PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.

OT TRUSSES SHOWING DISCOLORATION, CORROSION, OR OTHER EVIDENCE OF DETERIORATION. RD AND REPLACE TRUSSES THAT ARE DAMAGED OR DEFECTIVE.

- PERFORMANCE REQUIREMENTS
 DELEGATED DESIGNS ENGAGE A QUALIFIED PROFESSIONAL ENGINEER, AS DEFINED IN DIVISION 0'
 SECTION YQUALITY REQUIREMENTS, 'TO DESIGN METAL-PLATE-CONNECTED WOOD TRUSSES.
- STRUCTURAL PERFORMANCE: PROVIDE METAL-PLATE-CONNECTED WOOD TRUSSES CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED, COMPLY WITH REQUIREMENTS IN THE HULLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BELOW.
- WAXIMUM DEFLECTION UNDER DESIGN LOADS: 8. ROOF TRUSSES: VERTICAL DEFLECTION OF 1/180 OF SPAN.
- ATIONS OF THE FOLLOWING
- JUBICATIONS:
 TPI 1, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCT
 TPI 158, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE
 CONNECTED WOOD TRUSSES."
- TPI BCSI, "BUILDING COMPONENT SAFETY INFORMATION: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING METAL PLATE CONNECTED WOOD TRUSSES." D. WOOD STRUCTURAL DESIGN STANDARD: COMPLY WITH APPLICABLE REQUIREMENTS IN AFAPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND ITS "SUPPLEMENT"

- OMENSION LUMBER
 LUMBER: DOE P23 AND APPLICABLE RULES OF GRADING AGENCIES INDICATED. IF NO GRADING
 AGENCY IS INDICATED, PROVIDE LUMBER THAT COMPULES WITH THE APPLICABLE RULES OF ANY RULES
 WRITING AGENCY CERTIFEED BY THE ALS CORAND OF REVIEW PROVIDE LUMBER GRADED BY AN
 AGENCY CERTIFIED BY THE ALSC BOARD OF REVIEW TO INSPECT AND GRADE LUMBER UNDER THE
- FACTORY MARK EACH PIECE OF LUMBER WITH GRADE STAMP OF GRADING AGENCY.
- FOR EXPOSED LUMBER INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, OMIT GRADE STAMP AND PROVIDE CERTIFICATES OF GRADE COMPLIANCE ISSUED BY GRADING AGENCY.
- PROVIDE DRESSED LUNBER, S48.
 PROVIDE DRY LUNBER WITH 19 PERCENT MACHINA MICHAEL CONTENT AT THE OF DRESSING.
 MINIMUM CHORD BIZE FOR ROOF TRUSSES: 2 BY 6 INCHES NOMINAL FOR BOTH TOP AND BOTTOM CHORDS.
- C. PERMANENT BRACING: PROVIDE WOOD BRACING THAT COMPLIES WITH REQUIREMENTS FOR MISCELLANEOUS LUMBER IN DIVISION OF, SECTION TROUGH CARPENTRY.

- METAL CONNECTOR PLATES

 SOURCE LIMITATIONS: OFFINIA METAL CONNECTOR PLATES FROM SINGLE MANUFACTURER.

 GENERAL FABRICATE CONNECTOR PLATES TO COMPLY WITH TPH.

 NOT-DIP HEAVY-AGLIVANIZED-STEEL SHEET. STRIPA 66334 653M, STRUCTURAL STEEL (SS),

 HIGH-STRENGTH LOW-ALLOY STEEL TYPE A (HSLAS TYPE A), OR HIGH-STRENGTH LOW-ALLOY STEEL

 TYPE B (HSLAS TYPE B), CHSS CONTING DESIGNATION; AND NOT LESS THAN D.036 MICH THICK. USE FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED

- A PASI INVERSE.

 A GENERAL PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR INATERIAL AND MANUFACTURE.

 1. PROVIDE FASTENERS FOR USE WITH METAL FRAMING ANCHORS THAT COMPLY WITH WRITTEN RECOMMENDATIONS OF METAL FRAMING MANUFACTURER.
- RESONMENDAL HOND OF METAL FRAMING MANUFACTURER.

 2. WHIERE TRUSSES ARE EXPOSED TO WEATHER, IN GROUND CONTACT, MADE FROM PRESSURE-PRESERVATIVE TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.
- 2.5 METAL FRAMING ANCHORS AND ACCESSORIES
- LOADS: PROVIDE PRODUCTS WITH ALLOWABLE DESIGN LOADS, AS PUBLISHED BY
- AGENCY.

 B. HOT-DIP GALVANIZED STEEL SHEET: ASTM A 653/A; STRUCTURAL (SS), HIGH-STRENGTH LOW-ALLOY STEEL TYPE A (HSLAS TYPE A), OR HIGH STRENGTH LOW ALLOY STEEL TYPE B (HSLAS TYPE B); G 185 COATING DESIGNATION; AND NOT LESS THAN 0.036 INCH THICK RVATIVE TREATED LUMBER AND WHERE INDICATED
- 2.6 MISCELLANEOUS MATERIALS GALVANIZING REPAIR PAINT: SSPC-PAINT 20, WITH DRY FILM CONTAINING A MINIMUM OF 94 PERCENT ZINC DUST BY WEIGHT.

- CUT TRUSS MEMBERS TO ACCURATE LENGTHS, ANGLES AND SIZES TO PRODUCT CLOSE-FITTING JOINTS.
- ICATE METAL CONNECTOR PLATES TO SIZES, CONFIGURATIONS, THICKNESS, AND ANCHORING ILB REQUIRED TO WITHSTAND DESIGN LOADS FOR TYPES OF JOINT DESIGNS INDICATED. ASSEMBLE TRUSS MEMBERS IN DESIGN CONFIGURATION INDICATED; USE JIGS OR OTHER MEANS TO ENSURE UNIFORMITY AND ACCURACY OF ASSEMBLY WITH JOINTS CLOSELY FITTED TO COMPLY WITH TOLERANGES IN TPI 1, POSITION MEMBERS TO PRODUCE DESIGN CAMBER INDICATED.
- FABRICATE WOOD TRUSSES WITHIN MANUFACTURING TOLERANCES IN TPI

- INSTALL WOOD TRUSSES ONLY AFTER SUPPORTING CONSTRUCTION IS IN PLACE AND IS BRACED AND
- B. IF TRUSSES ARE DELIVERED TO PROJECT SITE IN MORE THAN ONE PIECE ASSEMBLE TRUSSES REFORE
- INSTALLING. C. HORT TRUSSES IN PLACE BY LIFTING EQUIPMENT SUITED TO SIZES AND TYPES OF TRUSSES REQUIRED, EXERCISING CARE NOT TO DAMAGE TRUSS MEMBERS OR JOINTS BY CUT-OF-PLANE BENDING OR OTHER
- D. INSTALL AND BRACE TRUSSES ACCORDING TO TPI RECOMMENDATIONS AND AS INDICATED.
- INSTALL TRUSSES PLUMB, SQUARE AND TRUE TO LINE AND SECURELY FASTEN TO SUPPORTING CONSTRUCTION.
 REPAIR TRUSSES AS INDICATED ADJUST AND ALIGN TRUSSES IN LOCATION BEFORE PERMANENTLY FASTENING.
- FASTEWING.

 6, ANCHOR TRUBSES SECURELY AT BEARING POINTS; USE METAL TRUBS TIE-DOWNS OR FLOOR TRUBS HANGERS AS APPLICABLE. INSTALL FASTEMER THROUGH EACH FASTEMER HOLE IN METAL FRAMMOS ANCHORS ACCORDING TO MAINFACTURERS FASTEMING SCHEDULES AND WRITTEN INSTRUCTIONS.

 1. SECURELY CONNECT EACH TRUSS PLY REQUIRED FOR FORMING BUILT-LY GRIDER TRUSSES.

 1. INSTALL AND FASTEM PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LONG ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHEN TERMINATION BALL WALL OR

- BEAMS.

 I. INSTALL BRACING TO COMPLY WITH DIVISION 06 SECTION "ROUGH CARPENTRY".

 INSTALL WOOD TRUSSES WITHIN INSTALLATION TO JERANCES IN TO! I

 DO NOT ALTER TRUSS IN FEELD. DO NOT OUT, DRILL NOTHE, OR REMOVE TRUSS MEMBERS.

 REPLACE WOOD TRUSSES THAT ARE DAMAGED OR DO NOT WEET RECURREMENTS.

 1. DAMAGED THUSSES MAY BE PEPARED ACCORDING TO TRUSS REPARE DETAILS SONED AND SEALED
 BY THE QUALUFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR TRUSS DESIGN, WHEN APPROVED
 BY ARCHITECT.

- 2 REPAIRS AND PROTECTION
 A. PROTECT WOOD THAT HAS BEEN TREATED WITH INORGANIC BORON (88X) FROM WEATHER. IF, DESPITE PROTECTION, INORGANIC BORON-TREATED WITO MCOD BECOMES WET, APPLY EPARTEGISTERED BOARTE TREATMENT. APPLY BORATE SOLUTION BY SPRAYING TO COMPLY WITH EPA REGISTERED LABEL.
- PROTECT WOOD TRUSSES FROM WEATHER. IF, DEBPITE PROTECTION, WOOD TRUSSES BECOME WET EPA REGISTERED BORATE TREATMENT, APPLY BORATE SOLUTION BY SPRAYING TO COMPLY WITH EPA REGISTERED LABEL C. REPAIR DAMAGED GALVANIZED COATINGS ON EXPOSED SURFACES WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A 750 AND MANUFACTURER'S WRITTEN INSTRUCTION.
- D. DAMAGED TRUSSES MAY BE REPAIRED ACCORDING TO TRUSS REPAIR DETAILS SIGNED AND AND

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07 41 13 - METAL ROOF PANELS

- PART 1 GENERAL 1.1 SECTION INCLUDES
- A. 5V CRIMP EXPOSED FASTENER METAL ROOF PANELS, WITH RELATED METAL TRIM AND ACCESSORIES
- MERICAN ARCHITECTURAL MANUFACTURER'S ASSOCIATION (AAM); WWW.AAMANET.ORS:
 AAMA 221 VOLUNTARY SPECIFICATIONS FOR HIGH PERFORMANCE ORGANIC COLOTINGS ON COL.
 COATED ARCHITECTURAL HOT DIPPED GALVANIZED (#DO) & ZING-ALJMANUM COATED STEE
 SUBSTRATES.
- AAMA 809.2 VOLUNTARY SPECIFICATION NON-DRYING SEALANTS.
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE): WWW.ASCE.ORG/CODES-6TANDARDS:

 1. ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

- ASCE 7 MINIMAM DEBINI LOADS FOR BUILDINGS AND OTHER STRUCTURES.

 STIM INTERNATIONAL (ASTIS): "MUNIASTIL GRIS:
 ASTIM A 782/A 782/A STANDARD SPECIFICATION FOR STEEL SHEET, 55 % ALUMINUM-ZINC
 ALLOY-COATED BY THE HOTOID PROCESS.
 ASTIM CO 45 SPECIFICATION FOR NONSTRUCTURAL STEEL FRAMING MEMBERS.
 ASTIM CO 45 SPECIFICATION FOR ELISTOMERIC, DOTT ESCALATIS.
 ASTIM D 22/4 TEST METHOD FOR CALCULATION OF COLOR DIFFERENCES FROM INSTRUMENTALLY.
- INDERWRITERS LABORATORIES, INC. (UL): WWW.UL.COM:
 UL 580 TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES
- ADMINISTRATIVE REQUIREMENTS
 PRE-INSTALLATION MEETING: PRIOR TO ERECTION OF FRAMING, CONDUCT PRE-INSTALLATION MEETING
 AT GITE ATTENDED BY OWNER, ARCHITECT, MANUFACTURER'S TECHNICAL REPRESENTATIVE,
 INSPECTION AGENCY AND RELATED TRADE CONTRACTORS.
 1. COOPDINATE BUILDING FRAMING IN RELATION TO METAL PANEL BYSTEM.
 2. COOPDINATE DIFFERINGS AND PENETRATIONS OF METAL PANEL BYSTEM.
- COORDINATE WORK OF DIVISION 07 SECTIONS "ROOF SPECIALTIES" AND "ROOF ACCESSORIES" AND OPENINGS AND PENETRATIONS AND MANUFACTURER'S ACCESSORIES WITH INSTALLATION OF METAL

- 1.4 QUALITY ASSURANCE MANUFACTURER/SOURCE: PROVIDE METAL ROOF PANEL ASSEMBLY AND ACCESSORIES FROM A SINGLE MANUFACTURER PROVIDING FIXED-BASE ROLL FORMING, AND ACCREDITED UNDER IAS AC 472 PART B. B. MANJAGUTURER GUALIFICATIONS: APPROXICE MANIFACTURE LISTED IN THIS SECTION WITH INIMIUM.
 FIVE YEARS EXPERIENCE IN MANUFACTURE OF BIMILAR PRODUCTS IN SUCCESSFUL USE IN SIMILAR
 APPLICATIONS.
 - APPROVAL OF COMPARABLE PRODUCTS: SUBMIT THE FOLLOWING IN ACCORDANCE WITH PROJECT SUBSTITUTION REQUIREMENTS, WITHIN TIME ALLOWED FOR SUBSTITUTION REVIEW.
 - a. PRODUCT DATA, INCLUDING CERTIFIED INDEPENDENT TEST DATA INDICATING COMPLIANCE WITH
- b. SAMPLES OF EACH COMPONENT
- c. SAMPLE SUBMITTAL FROM SIMILAR PROJECT.
- d. SAMPLE WARRANTY.
- . IAS AC 472 CERTIFICATE.
- e. IAB AC 472 CERTRICATE.
 2. APPROVED MANUFACTURERS MUST MEET BEPARATE REQUIREMENTS OF SUBMITTALS ARTICLE.
 C. INSTALLER QUALIFICATIONS: EXPERIENCED INSTALLER WITH MINIMUM OF FIVE YEARS EXPERIENCE
 WITH SUCCESSIVALLY COMPLETED PROJECTS OF A BIMILAR NATURE AND SCOPE.
 1. INSTALLER'S FIELD SUPERVISOR: EXPERIENCED MECHANIC, ABLE TO COMMUNICATE WITH OWNER, ARCHITECT, AND INSTALLER'S, SUPERVISING WORK ON SITE WHENEVER WORK IS UNDERVISING.

- E SHOP DRAWINGS: BHOM LAVOUTS OF METAL PANELS. INCLIDE ESTALS OF EACH CONDITION OF INSTALLATION, PANEL PROFILES, AND ATTACHMENT TO BUILDING. PROVIDE DETAILS OF EDGE CONDITIONS, JOINTS, FASTENDER AND SEALANT HACEMENT, FLASHING, OFERIORS, PRESTRATIONS, ROOF ACCESSORIES, LIGHTNING ARRESTING EQUIPMENT, AND SPECIAL DETAILS. MAKE DISTINCTION SETMED FACTORY AND FIELD ASSEMBLED WORK.

 1. NDICATE POINTS OF SUPPORTING STRUCTURE THAT MUST COORDINATE WITH METAL PANEL SYSTEM MAKETAL ATTOM.
- BYSTEM INSTALLATION.
 INCLUDE DATA INDICATING COMPLIANCE WITH PERFORMANCE REQUIREMENTS.
- 2. SAMPLES FOR INITIAL SELECTION: FOR EACH EXPOSED PRODUCT SPECIFIED INCLUDING SEALANTS. PROVIDE REPRESENTATIVE COLOR CHARTS OF MANUFACTURER'S FULL RANGE OF COLORS. SAMPLES FOR VERHICATION: PROVIDE 12-INCH (305 MM-) LONG SECTION OF EACH METAL PANEL PROFILE PROVIDE COLOR CHIP VERIFYING COLOR SELECTION. 1.6 INFORMATIONAL SUBMITTALS PRODUCT TEST PROPERTS: MOICATING COMPLIANCE OF PRODUCTS WITH REQUIREMENTS, WITNESSED BY A PROFESSIONAL ENGINEER.

 OULDIFFICATION NOTOMATION: FOR INSTALLER FIRM AND INSTALLER'S FIELD SUPERVISION.

 US A COREDITATION CERTIFICATE: INDICATING THAT MANUFACTURER IS ACCREDITED UNDER PROVISIONS OF US AS O 472.
- MANUFACTURER'S WARRANTY: SAMPLE CORY OF MANUFACTURER'S STANDARD WARRANTY 1.7 CLOSEOUT SUBMITTALS
- B. MANUFACTURER'S WARRANTY: EXECUTED COPY OF MANUFACTURER'S STANDARD WARRANTY

- DEL MERY, STORAGE, AND HANDLING
 PROTECT PRODUCTS OF METAL PAINE. SYSTEM DURING SHIPPING, HANDLING, AND STORAGE TO PRESENT STANING, DESTING, DETERIORATION OF COMPONENTS OR OTHER DAMAGE. PROTECT PAINELS AND TRIM BUNDLES DURING SHIPPING.
 - DELIVER, UNLOAD, STORE, AND ERECT METAL PANEL SYSTEM AND ACCESSORY ITEMS WITHOUT MISSHAPING PANELS OR EXPOSING PANELS TO SURFACE DAMAGE FROM WEATHER OR CONSTRUCTION OPERATIONS.
- STORE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE WOOD COLLARS FOR STACKING AND HANDLING IN THE FIELD.

- COORDINATE SIZES, PROFILES, AND LOCATIONS OF ROOF CURBS AND OTHER ROOF-MOUNTED
 EQUIPMENT AND ROOF PENETRATIONS, BASED UPON SIZES OF ACTUAL SELECTED FOLIPMENT.
- O WARRANTY

 A PPECAL MANUFACTURER'S WARRANTY: ON MANUFACTURER'S STANDARD FORM, IN WHICH
 MANUFACTURER AGREES TO REPAIR OR REPLACE METAL PANEL ASSEMBLIES THAT FAIL WITHIN 10
 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- PART 2 PRODUCTS
- 2.1 MANUFACTURER
- A BASIS OF DESIGN MANUFACTURER: MBCI METAL ROOF AND WALL BYSTEMS, DIVISION OF NCI GROUP, NC.; HOUSTON TX. TEL. 6777/15-8224; RMIL: MYCOMPARALICON, MEX. WWW.MBCI COM.

 1. PROVIDE BASIS OF DESIGN PRODUCT, OR COMPARABLE PRODUCT APPROVED BY ARCHITECT PRIOR

- 2.2 PERFORMANCE REQUIREMENTS
 A. GENERAL, PROMODE METAL ROOF PANEL SYSTEM MEETING PERFORMANCE REQUIREMENTS AS DETERMINED BY APPLICATION OF SPECIFED TESTS BY A QUALIFIED TESTING FACILITY ON MANUFACTURERS STANDARD ASSESSMELIES.

 8. THERMAL MOVEMENTS: ALLOW FOR THERMAL MOVEMENTS FROM VARIATIONS IN BOTH AMBIENT AND INTERVAL TIPMENTAL TEST, ALLOW FOR THERMAL BY A STANDARD AND CONTRACTION. ALLOW FOR DEFLECTION AND LESSON FOR THERMAL STANDARD BY TEMPENATINE CHIPMENTORS FROM ONE BIOL OF THE PRACT.

 C. STRUCTURAL, PERFORMANCE: PROVIDE METAL PANEL ASSEMBLES DAYABLE OF WITHSTAND NOT THE EFFECTS OF INDICATIONS THE SPECTS OF INDICATIONS ON A SPECT OF INDICATION OF INDICATIONS ON A SPECT OF INDICATIONS ON A SPECT OF INDICATIONS ON A SPECT OF INDICATION OF INDICATIONS ON A SPECT OF INDICATION OF INDICATIONS ON A SPECT OF INDICATION OF INDIC
- WIND LOADS: PER THE CRITERIA LISTED IN THE FLORIDA PRODUCT APPROVAL LISTED IN THE COVER
- SHEET.

 D. FLORIDA STATE BUILDING CODE COMPLIANCE: COMPLY WITH REQUIREMENTS OF FLORIDA STATE BUILDING CODE. WHWW.FLORIDABUILDING.ORG/PRIPR APP. SRCH.ASPX

 E. WATER PERITATION. ASTM. E 331: NO UNCONTROLLED WATER PENETRATION AT A STATIC PRESSURE OF 1324 LIBPISD. FT. (334 PA).

2.3 METAL PANEL MATERIALS

- L ALUMINUM-ZINC ALLOY-COATED STEEL SHEET: ASTM A 792/A 792M, STRUCTURAL QUALITY, GRADE 50, COATING CLASS AZ55 (GRADE 340, COATING CLASS AZMISS) UNPAINTED GALVALUME PLUS COATING 2.4 METAL ROOF PANELS
- NOMINAL COATED THICKNESS: 0.022 INCH/26 GAGE (0.56 MM) PANEL SURFACE: SMOOTH
- SOR FINISH: UNPAINTED EXPOSED GALVALUME PLUS COATING 5. COLOR: AS INDICATED
- METAL ROOF PANEL ACCESS METTEN, INCOMPTANDE, ALACESSARIES)

 GENERAL: PROMICE COMPLETE METLA ROOF PANIEL ASSEMBLY INCORPORATING RIDGE, EAVE, RAKE,
 VALLEY, AND PARAPET TRINS, COPINGS, RAGCAS, GUTTERS AND DOWNSPOUTS, AND INSCELLANEOUS
 PRABHINGS, IN MANUFACTURERS STANDARD PROFILES | PROFILES AS INCICATED |
 FASTENERS, CLOSURE STRIPS, SUPPORT PLATES, AND GEALANTS AS INDICATED IN MANUFACTURERS
 MORTHSH INSTOLLATIONS.
- WRITTEN INSTRUCTIONS.
 FLASHING AND TRIM: MATCH MATERIAL, THICKNESS, AND FINISH OF METAL PANEL FACE SHEET.
 PANEL FASTENERS: SELF-TAPPING SCREWS AND OTHER ACCEPTABLE FASTENERS RECOMMEN
- OCH PANIEL MANUHACTUKER. EXPOSED FASTENIERS: STAINLESS STEEL FASTENERS WITH EPOM OR NEOPRENE GASKETS, WITH HEADS MATCHING COLOR OF METAL PANIELS BY MEANS OF FACTORY-APPLIED COATING. D. SELF-ADHERING, HIGH-TEMPERATURE UNDERLAYMENT: SELF-ADHERING, COLD-APPLIED SHEET UNDERLAYMENT AS INDICATED ON THE DRAWINGS.

 JOINT SEALERS: MANUFACTURER'S STANDARD OR RECOMMENDED LIQUID AND PREFORMED SEALERS AND TAPES, AND AS FOLLOWS.
- AND TAPES, AND AS FOLLOWS: 1. TAPE BEALERS: MANUFACTURER'S STANDARD NON-CURING BUTYL TAPE, AAMA 800.2. 2. CONCEALED BEALANTS: NON-CURING BUTYL, AAMA 800.2. 3. EXPOSED <u>JOINT SEALANTS</u>: URETHANE, SINGLE COMPONENT, ASTM C 920.
- B FABRICATION
 A GENERAL: PROVIDE FACTORY FABRICATED AND FINISHED METAL PANELS AND ACCESSORIES MEETING PERFORMANCE REGUIREMENTS, INDICATED PROPILES, AND STRUCTURAL REQUIREMENTS.
- PERFORMANCE RESIDENCES IN CONTINUOUS LENGTH FOR PAUL ENGINE PERFORMENTS.

 PAREL LENGTH FOR PAINTES IN CONTINUOUS LENGTH FOR PETALLE PRIVIL ENGINE OF ESTAILED RUNS, EXCEPT WHERE CITIERWISE INDICATED ON APPROVED SHOP DRAWNINGS.

 SHEET METAL LA-SHING AND THIN, FABRICHAT FLASHING AND TRIM TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPROVED SHOP DRAWNINGS, AND PROJECT DRAWNINGS.

 FOR STAIL AND ARTHUR SHAFFUL AND METAL PAINE SUBSTRATE AND FRISH.

PART 3 - EXECUTION

- COMMINISTRATE AND SYSTEM SUBSTRATE AND SUPPORTS WITH INSTALLER PRESENT. INSPECT FOR PRECTION TOLERANCES AND OTHER CONDITIONS THAT WOULD ADVERSELY AFFECT INSTALLATION OF METAL PANEL INSTALLATION.
- INSPECT METAL PANIEL SUPPORT SUBSTRATE TO DETERMINE IF SUPPORT COMPONENTS ARE
- PANEL SUPPORT TOLERANCES; CONFIRM THAT PANEL SUPPORTS ARE WITHIN TOLERANCES ACCEPTABLE TO METAL PANEL SYSTEM MANUFACTURER BUT NOT GREATER THAN THE POLLO
- b. 3/8 INCH (9 MM) OVER ANY SINGLE ROOF PLANE. CORRECT OUT-OF-TOLERANCE WORK AND OTHER DEFI METAL ROOF PANEL SYSTEM INSTALLATION. 3.2 PREPARATION A MISCELLANEOUS SUPPORTS: INSTALL SUBFRAMING, GIRTS, FURRING, AND OTHER MISCELLANEOUS PANEL SUPPORT MEMBERS ACCORDING TO ASTMIC 754 AND MANUFACTURERS WRITTEN
- B. FLASHINGS: INSTALL FLASHINGS TO COVER EXPOSED UNDERLAYMENT PER SECTION 07 62 00 "SHEET METAL FLASHING AND TRIM."

a. 1/4 INCH (8 MM) IN 20 FOOT (8.1 M) IN ANY DIRECTION.

- 3.3 METAL PANEL INSTALLATION
- A. EXPOSED PASTEMEN METAL ROOF PANELS: INSTALL WEATHERTIGHT METAL PANEL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPROXED SHOP DRAWNINGS, AND PROJECT DRAWNINGS, MODERAN FROM THE PART OF TH
- PANEL SEALANTS: INSTALL MANUFACTURER'S RECOMMENDED TAPE BEALANT AT PANEL SIDE LAPS AND END LAPS.
- C. PANEL FASTENING: ATTACH PANELS TO SUPPORTS USING SCREWS, FASTENERS, AND SEALANTS RECOMMENDED BY MANUFACTURER AND INDICATED ON APPROVED SHOP DRAWINGS.
- FASTEN METAL PANELS TO SUPPORTS AT EACH LOCATION INDICATED ON APPROVED SHOP DRAWINGS, WITH SPACING AND FASTENERS RECOMMENDED BY MANUFACTURER. PROVIDE WEATHERPROOF JACKS FOR PIPE AND CONDUIT PENETRATING METAL PANELS OF TYPES RECOMMENDED BY MANUFACTURER. 3. DISSIMILAR MATERIALS. WHERE ELEMENTS OF METAL PANEL SYSTEM WILL COME INTO CONTACT WITH DISSIMILAR MATERIALS. TREAT FACES AND EDGES IN CONTACT WITH DISSIMILAR MATERIALS. AS RECOMMENDED BY MANUFACTURER.

- A. GENERAL: INSTALL METAL PANEL TRIM, FLASHING, AND ACCESSORIES USING RECOMMENDED FASTENERS AND JOINT SEALERS, WITH POSITIVE ANACHORSE TO BUILDING, AND WITH WEATHER TIGHT MOUNTING. COOPRONATE INSTALLATION WITH FLASHINGS AND OTHER COMPONENTS.

 1. INSTALL COMPONENTS REQUIRED FOR A COMPLETE METAL PANEL ASSEMBLY, INCLUDING TRIM, COPPIOS, FLASHINGS, SEALATTS, CLOSIVES STITING, AND BIMILAR TRIMS.
- COMPLY WITH DETAILS OF ASSEMBLIES UTILIZED TO ESTABLISH COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS
- . SET UNITS TRUE TO LINE AND LEVEL AS INDICATED. INSTALL WORK WITH LAPS, JOINTS, AND SEAMS THAT WILL BE PERMANENTLY WEATHER RESISTANT.
- B. JOINT SEALERS: INSTALL JOINT SEALERS WHERE INDICATED AND WHERE REQUIRED FOR WEATHERTIGHT PERFORMANCE OF METAL PANEL ASSEMBLIES, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. PREPARE JOINTS AND APPLY SEALANTS PER REQUIREMENTS OF DIVISION 07 SECTION *JOINT SEALANTS.*

- A. TESTING AGENCY: [COWNER WILL ENGAGE] [ENGAGE] AN INDEPENDENT TESTING AND INSPECTING AGENCY ACCEPTABLE TO ARCHITECT TO PERFORM FIELD TESTS AND INSPECTIONS AND TO PREPIED TEST REPORTS.

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EDITED FOR RE-ISSUE. ROOF INSULATION

3.6 CLEANING AND PROTECTION VE TEMPORARY PROTECTIVE FILMS IMMEDIATELY IN ACCORDANCE WITH METAL ROOF PANEL. FACTURER'S INSTRUCTIONS, CLEAN FINISHED SURFACES AS RECOMMENDED BY METAL PROFE

B. REPLACE DAMAGED PANELS AND ACCESSORIES THAT CANNOT BE REPAIRED TO THE BATISFACTION OF

END OF SECTION 07 41 13

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ARCHITECTURE 434 9th AVENUE WEST PHONE (941)729-5691 FAX (941)729-5692

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REVISIONS 10/01/15

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JECT NO: 2013-DATE: 04/02/1
DRAWN BY: CU/BL
CHK'D BY: CU/DB 001 2017

ARLOS D. UGARTE LIC: NO. AR-0010725 SHEET A901

C. STAINLESS STEEL: TYPE 318L STAINLESS STEEL.

1. USE FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED.

A. FIBER CEMENT SOFFIT PANELS, FASCIA, MOLDINGS AND ACCESSORIES

1.2 SUBMITTALS

A. PRODUCT DATA: MANUFACTURES DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:

3. INSTALLATION METHODS.

B. SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS 01 COLOR CHIPS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND PATTERNS.

C. VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 4 BY 8 INCHES (100 BY 150 MM), REPRESENTING ACTUAL PRODUCT, COLOR, AND PATTERNS.

1.3 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS; MINIMUM OF 2 YEARS EXPERIENCE WITH INSTALLATION OF SIMILAR PRODUCTS.

B. MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP.

- FINISH AREAS DESIGNATED BY ARCHITECT.
- DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP, COLOR, AND SHEEN ARE APPROVED BY ARCHITECT.
- 3. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.

1.4 DELIVERY, STORAGE, AND HANDLING

A. STORE PRODUCTS IN MANUFACTURES UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.

STORE SIDING ON EDGE OR LAY FLAT ON A SMOOTH LEVEL SURFACE. PROTECT EDGES AND COMERS FROM CHIPPING, STORE SHEETS UNDER COVER AND KEEP DRY PRIOR TO INSTALLING.

C. STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

1.5 PROJECT CONDITIONS

A. PRODUCT WARRANTY: LIMITED PRODUCT WARRANTY AGAINST MANUFACTURING DEFECTS.

- 1. 1. HARDIEPLANK LAP AND HARDIPANEL VERTICAL SIDING FOR 50 YEARS.
- 2. 2. HARDIETRIM FOR 10 YEARS.
- WARRANTY: LIMITED PRODUCT WARRANTY AGAINST MANUFACTURING FINISH DEFECTS 1. 1. WHEN USED FOR ITS INTENDED PURPOSE, PROPERLY INSTALLED AND MAINTAINED A
 HARDIE'S PUBLISHED INSTALLATION INSTRUCTIONS, JAMES HARDIE'S COLORPLUS FINI
- C. WORKMANSHIP WARRANTY: APPLICATION LIMITED WARRANTY FOR 2 YEARS

PART 2 - PRODUCTS

MANUFACTURERS

A ACCEPTABLE MANUFACTURER JAMES HARDIE BUILDING PRODUCTS, INC, 28300 LA JAMEDA, BUITE 263 MISSICN VIEJO, CA \$2861, ASD TOLL FIRE REDICENTIAL (885) J-HARDIE TOLL FIREE COMMERCIAL: (885) J-HARDIE TOLL FIREE COMMERCIAL: (885) J-HARDIE TOLL FIREE COMMERCIAL: (885) J-HARDIE COM WEST -RESIDENTIAL: (885)

A. FACTORY PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.

PART 3 - EXECUTION

A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.

B. IF FRAMING PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNBATISFACTORY PREPARATION BEFORE PROCEEDING.

C. NOMINAL 2 NICH BY 4 NICH 51 MB 1102 MM 1000 FRAMING SELECTED FOR MINIMAL SHRINKAGE AND COMPLYING WITH LOCAL BUILDING CODES, MINIMAL 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF LINFOYD MIDIRISHONS AND PROPERLY ALIGNED.

1. PROTECT SIDING FROM OTHER TRADES.

CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

PART 1 - GENERAL

1. SILICONE JOINT SEALANTS 2. LATEX JOINT SEALANTS.

1.2 CUMBLIT ASSURPCIVE

A. INSTALLER QUALIFICATIONS: MANUFACTURE'S AUTHORIZED REPRESENTATIVE WHO IS TRAINED AND APPROVED FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.

8. SQURGE LIMITATIONS: OBTAIN EACH KIND OF JOINT SEALANT FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

21 MATERIALS GENERA

A COMPATIBILITY: PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WHIT ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPENSION.

B. LIQUID-APPLIED JOINT SEALANTS: COMPLY WITH ASTMIC 920 AND OTHER REQUIREMENTS INDICATED FOR EACH LIQUID APPLIED JOINT SEALANT SPECIFIED; INCLUDING THOSE REFERENCING ASTMIC 920 CLASSIFICATIONS FOR TYPE, GRADE, CLASS, AND USES RELATED TO EXPOSURE AND JOINT SUBSTRACTION. C. COLOR OF EXPOSED JOINT SEALANTS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL BANCE

2.2 SILICONE JOINT SEALANTS

A MILDEW-RESISTANT, SINGLE-COMPONENT, ACID-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE 5, GRADE NS, CLASS 25, FOR USE NT.

COULTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING BASF BUILDING SYSTEMS; OMNI PLUS.

DOW CORNING CORPORATION, 786 MILDEW RESISTANT

GE ADVANCED MATERIALS: SILICONES: BANITARY SCS1700.

2.3 LATEV JOINT SEALANTS

A. LATEX JOINT SEALANT: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX, ASTM C 834, TYPE OP, GRADE

PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

BASF BUILDING SYSTEMS; SONOLAC.

BOSTIK, INC.; CHEM-CALK 600.

JOINT SEALANT BACKING

CONTROL DEPLATED SCHAPE SEALANT BACKINGS OF MATERIAL THAT ARE NON-STAINING; ARE COMPATIBLE WITH JOHN SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOHN FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LARGRAND AND AND AREA OF THE STAIN AND AREA OF THE STA

LABORATORY YESTENS.

8. CYLINDRICAL SEALANT BLOKINGS: ASTM C 1338, TYPE C CLOSED-CELL MATERIAL WITH A SURFACE SKIM, AND OF SIZE AND DENSITY YO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING

A. MASKING TAPE: NON-STAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

EXAMINATION
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 EXPERIMENTATION

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

A. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT-SEALANT MANUFACTURE'S WRITTEN INSTRUCTIONS AND THE FOLLOWING

REMOVE ALL FOREIGN MATERIAL FROM JOINT BUBSTRATES THAT COULD INTERPERE WITH ADMESION OF JOINT BEALANT, NOLLUDING DUST, PAINTS (EXCEPT FOR PERMANENT, PROTECTIVE CONTINGS TESTED AND APPROVED FOR SEALANT ADMESION AND COMPATIBLITY BY SEALANT MANUFACTURERY, OLD JOINT BEALANTS, OIL, GREASE, WATERPROOFINS, WATER REPELLENTS. WATER, SURFACE DIRT, AND FROGST.

VINITED, OMERALE DIST, AND FROUD.

CLEAN POROUGA JOINT SUBSTRATES SURFACES BY BRUSHING, GRINDING, MECHANICAL ABRADING, OR A COMBINATION OF THESE METHODS TO PRODUCE A DEAN, SOUND SUBSTRATE CAPABLE OF DEVELOPING OFFINALIS BROW THIS JOINT SEALANTS. REMOVE IS DOWNER PRATICLES REMAINING AFER CLEANING OFFERATIONS RESOURE BY VACUUMING OR RUSHWING OFFINATION OF THE STATE OFFINALIS REMOVED THE STATE

COMPRESSED AR. PORCUS JOINT SUBSTRATES INCLIDES THE FOLLOWING:

a. LINGUAGED SURFACES OF CERAMIC TILE.

MASKING TAPE: USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT OR PRIMER

WITH ADJOINING BURFACES THAT OTHERWISE WIGHD BE PERMANENTLY STAINED OR DAMAGED BY

SUCH CONTACT OR BY CLEANING METHODS REQUIRED TO REMOVE SEALANT SMEARS, REMOVE TAPE

MINECLATELY PRIFE TROUBING WITHOUT DISTURBING JOINT SEAL.

3.3 INSTALLATION OF JOINT SEALANTS

. GENERAL: COMPLY WITH JOINT SEALANT MANUFACTURE(S WRITTEN INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLICATIONS INDICATED, UNLESS MORE STRINGENT REQUIREMENTS APPLY.

SEALANT INSTALLATION STANDARD: COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.

C. INSTALL SEALANT BACKINGS OF KIND INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUISED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OFFI

DO NOT LEAVE GAPS BETWEEN ENDS OF SEALANT BACKINGS.

2. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR SEALANT BACKINGS REMOVE ABSORBENT SEALANT BACKINGS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.

D. INSTALL BOND-BREAKER TAPE BEHIND SEALANTS WHERE SEALANT BACKINGS ARE NOT USED BETWEEN SEALANTS AND BACKS OF JOINTS.

E. INSTALL SCALANTS USING PROVEN TECHNIQUES THAT COMPLY WITH THE FOLLOWING AND AT THE SAME TIME BLOCKINGS ARE INSTALLED:

PLACE BEALANTS SO THEY DIRECTLY CONTACT AND FULLY WIET JOINT SUBSTRATES. COMPLETELY FILL RECESSES IN EACH JOINT CONFIGURATION

PRODUCE UNIFORM, CROSS SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPARILITY. ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.

TOQUING OF NON-BAG SEALANTS, MIREDANELY, PATTER SEALANT APPLICATION AND BEFORE SKINNING
OR CURING BEGINS, TOOL SEALANTS ACCORDING TO RECUIREMENTS SPECIFIED IN SUBPARAGRAPHS
BELOW TO FORM SHOOTH, LIMPEGOWN BECOME OF CONFISIPATION IN MICKLETE, TO ELIMINATE AR
POCKETS, AND TO ENGINE CONTACT AND ADHESING OF SEALANT WITH SIDES OF JOINT

I. REMOVE EXCESS SEALANT FROM SURFACES ADJIGENT TO JOINT

USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY BEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.

PROVIDE CONCAVE JOINT PROFILE PER FIGURE 84 IN ASTM C 1193, UNLESS OTHERWISE INDICATED.

B. USE MASKING TAPE TO PROTECT SURFACES ADJACENT TO RECESSED TOOL JOINTS.

A. JOINT SEALANT APPLICATION: EXTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NO TRAFFIC SURFACES.

1. JOINT LOCATIONS:

PERIMETER JOINTS OF FRAMES OF DOORS.

2. JOINT SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF

B. JOINT-SEALANT APPLICATION: MILDEW-RESISTANT INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NON-TRAFFIC SURFACES. 1. JOINT SEALANT LOCATION: 3. JOINT BEATWITE DUBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
 3. JOINT BEALANT: SINGLE COMPONENT, NON-BAG, MILDEW RESISTANT, ACID CURING.
 3. JOINT BEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURES FULL RANGE OF COLORS.

END OF SECTION 07 92 00

DIVISION 8 - OPENINGS

SECTION 08 11 16 - ALUMINUM FLUSH DOORS AND FRAMES

PART 1 - GENERAL

1.1 SECTION INCLUDE A. ALUMINUM FLUSH DOORS

B. ALUMINUM DOOR FRAMES. 12 RELATED SECTIONS A. SECTION - JOINT SEALERS

B. SECTION -- DOOR HARDWARE

A. ALUMINUM ASSOCIATION, INC. (AA).

1. AA 5005-H14 - SHEET ARCHITECTURAL 2. AA 6061-T6 - HEAVY DUTY STRUCTURES.

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAM

. AAMA 2803-98 - PIGMENTED ORGANIC COATINGS (POLYCRON).

. AAMA 2803-98 - SUPERIOR PERFORMING ORGANIC COATINGS (KYNAR).

. AAMA 609 - ANODIZED ARCHITECTURAL FINISHES CLEANING AND MAINTENANCE.

AAMA 818-02 - PAINTED ARCHITECTURAL PRODUCTS CLEANING AND MAINTE

8. AAMA 701 - PILE WEATHER STRIP.

C. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM).

 A 123 - ZINC (HOT-DIP GALVANIZED) COATINGS.
 C 728-97 - INSULATION BOARD, MINERAL AGGREGATE 3. E 330-97EL - STRUCTURAL PERFORMANCE OF EXTERIOR DOORS

TEST PROCEDURES AND PERFORMANCES:

PRODUCT DATA: MANUFACTURER'S DESCRIPTIVE LITERATURE FOR EACH TYPE DOOR AND FRAME: INCLUDE THE FOLLOWING INFORMATION:

FABRICATION METHODS. 2. FINISHING.

ACCESSORIES.
 SHOP DRAWINGS: INDICATE THE FOLLOWING:

. ELEVATIONS AND DETAILS OF EACH DOOR AND FRAME TYPE.

2. SCHEDULE OF DOORS AND FRAMES. 8. CONDITIONS AT OPENINGS WITH VARIOUS WALL THICKNESSES AND MATERIALS.

4. LOCATION AND INSTALLATION REQUIREMENTS FOR HARDWARE. . THICKNESSES OF MATERIALS, JOINTS.

EXPENSIVE OF COUNTY OF THE REPORT OF ALLIMINUM DOOR CORNER CONSTRUCTION, MINIMUM 6-INCH BY 6-INCH (150 MM) LEGS. WE WERE COLOR OR TEXTURE VARIATIONS ARE ANTICIPATED, SUCH AS ANODIZED FINISHES, INCLUDE TWO OR MORE UNITS IN EACH SET OF SAMPLES INDICATING SCITEME LIMITS OF VARIATIONS.

F. HARDWARE TEMPLATES: PROVIDE PRINT HARDWARE MOUNTING ESTAILS.

G. MANUFACTURERS INSTALLATION INSTALCTIONS: PRINTED INSTALLATION INSTRUCTIONS FOR EACH PRODUCT, INCLUDING PRODUCT STORAGE REQUIREMENTS.

H. OPERATIONS AND MAINTENANCE DATA: PRINTED INSTRUCTIONS FOR EACH PRODUCT.

1.6 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING ALUMINUM DOOR AND FRAME SYSTEMS OF THE TYPE REQUIRED FOR THIS PROJECT, WITH MINIMUM TEN CONTINUOUS YEARS

PRODUCT QUALIFICATIONS: WIND-LOAD TEST CERTIFICATION CONFORMING TO ASTIN E 330 ON SAMPLES OF PREVIOUS PRODUCTS SHALL BE PROVIDED FOR THE TYPE OF DOOR TO BE USED. C, INSTALLER'S QUALIFICATIONS: WORKINEN SKILLED IN HANDLING ALUMINUM DOOR AND FRAME SYSTEMS OF THE TYPE REQUIRED FOR THIS PROJECT.

D. INSTRUCTION: THE MANUFACTURER OR HIS REPRESENTATIVE WILL BE AVAILABLE FOR CONSULTATION TO ALL PARTIES ENGAGED IN THE PROJECT, INCLUDING INSTRUCTION TO INSTALLATION DEPERDAMENT

DELIVERY, STORAGE AND HANDLING A DELIVER DOORS AND FRAMES PALLETED, WRAPPED OR INDIVIDUALLY CRATED, DOORS SHALL BE SIDE PROTECTED WITH SURROUNDING GROOVED 2-NCH (6)3 MM) BY 4-NCH (191.6 MM) WOOD FRAME AND COVERED WITH 3F-POLUM (12.4 KG) TEST CORTIQUATED CARRIBOARD).

INSPECT DELIVERED DOORS AND FRAMES FOR DAMAGE, UNLOAD AND STORE WITH MINIMUM HANDLING, REPAIR MINOR DAMAGE IF REFINISHED TEMB ARE EQUAL IN ALL RESPECTS TO NEW WORK, OTHERWISE, REMOVE DAMAGE THEM AND DEFLACE WITH DAY. STORE PRODUCTS OF THIS SECTION UNDER COVER IN MANUFACTURER'S UNOPENED PACKAGING UNTIL

PLACE UNITS ON MINIMUM 4-INCH (101 6 MAN WOOD BLOCKING

4. PROVIDE 0.25-INCH (8.35 MM) AIR SPACES BETWEEN STACKED DOORS

2. AVOID NON-VENTED PLASTIC OR CANVAS COVERS. 3. REMOVE PACKAGING IMMEDIATELY IF PACKAGING BECOMES WET.

18 PROJECT CONDITIONS

A. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS OF AREAS TO RECEIVE ALUMINUM FRAMES; NOTE DISCREPANCIES ON SUBMITTED SHOP DRAWINGS. 1.9 SCHEDULING

A. ENSURE THAT ALL APPROVALS AND/OR SHOP DRAWINGS ARE SUPPLIED OR RETURNED TO THE MANUFACTURER IN TIME FOR FABRICATION WITHOUT AFFECTING CONSTRUCTION PROGRESS B. ENSURE THAT TEMPLATES AND/OR ACTUAL HARDWARE REQUESTED BY MANUFACTURER ARE AVAILABLE IN TIME FOR FABRICATION WITHOUT AFFECTING CONSTRUCTION PROGRESS SCHEDULE

A. MANUFACTURER: TEN YEAR WARRANTY AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS, INCLUDING WARPING, ROTTING, DECAYING OR BOWING.

B. INSTALLER: WARRANTY INSTALLATION PROCEDURES AND PERFORMANCE FOR FIVE YEARS AGAINST DEFECTS DUE TO WORKMANSHIP AND MATERIALS HANDLING.

MANUFACTURER'S BASIS OF DESIGN A. ACCEPTABLE MANUFACTURER: MODEL: SERIES 100BE

CLINE ALUMINUM DOORS, INC. 12 - 82ND AVENUE WEST, BRADENTON, FLORIDA 34205-8907

TELEPHONE: (800) 848-8738, (941) 748-4104, FAX: (941) 748-5153 WEBSITE: WWW.CLINEDOORS.COM. EMAIL: INQUIRE@CLINEDOORS.COM

ALUMNUM MEMBERS: ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR STRENGTH, CORROSION RESISTANCE, AND APPLICATION OF REQUIRED FINISH.

 ALUMNUM CODOR COMPONENT: MINIBUM BY COMPOSITE LAMINATED CONSTRUCTION TO INCLUDE:

FACING: ONE-PIECE 0.040-INCH (1.02 MM) SMOOTH 5005-H14 STRETCHER-LEVELED ALUMINUM ALLOY SUBSTRATE ONE-PIECE OUNDINGHT (LAZ MIN) SINCH IS DUPOT HIS STREICHER-LEVELED ALDMINON ALLE.

SUBSTRATE ONE-PIECE OIL TEMPERED HARDBOARD BACKER

CORE: ORGANIC MATERIALS BHALL BE USED TO FORM A MARINE GRADE HONEYCOMB CORE WITH
HIGH COMPRESSION STREINSTRATE OF 94 PS IS ARTIN CASS), AND INTERNAL ALUMINAM HARDWARE

HARDWARE BACKUP: THE HARDWARE BACKUP TUBE SHALL BE A MINIMUM OF 4-INCHES (107.85 MM) IN WOTH, 1.378 ANCHES (3.43 MM) IN DEPTH WITH A WALL THICKNESS OF 0.0125 INCHES (3.16 MM). CONTROLOUS FOR THE FULL PERMETER OF THE DOOR TO ALLOW FOR ALL SPECIFIED AND NON SPECIFIED HARDWARE REINFOCKEMENT.

HARDWARE PREP: BASIC TO INCLUDE MORTISE LOCK EDGE PREP OR CYLINDRICAL LOCK PREP; AND PAIRS PREPPED FOR FLUSH BOLTS. IF REQUIRED. BONDING AGENT: ENVIRONMENTALLY FRIENDLY ADHESIVE WITH STRENGTH BUILDUP OF 350 POUNDS PER SQUARE INCH(24.5 KG/CM2). PERIMETER DOOR TRIM: WALL THICKNESS OF 0.050-INCH (1.25 MM) MINIMUM IN 6063-T5 EXTRUDED ALUMINUM ALLOY WITH SPECIAL BEVELED EDGE CAP DESIGN AND INTEGRAL WEATHER STRIPPING

ON LOCK STILE.

8. REPLACEABLE DOOR TRINK MECHANICALLY FASTENED TO THE HARDWARE BACKUP TUBE, ALLOWING FOR REPLACEMENT IN THE FIELD, IF DAMAGED.

9. TRIM FINISH: TO HAVE MINIMUM OF A CLASS I ANOCIZED FINISH.

WEATHER STRIPPING: REPLACEABLE WOOL PILE WITH NYLON FABRIC, POLYPROPYLENE BACKING MEETING AAMA 7018TANDARDS. APPLIED WEATHER STRIPPING IS NOT ACCEPTABLE.

11. MATERIALS: ONLY NON-PERROUS, NON-RUSTING MEMBERS SHALL BE ACCEPTABLE, INCLUDING TIE ROOB, SCREWS AND REINFORCEMENT PLATES.

12. REGULATIONS: ALL COMPONENTS AND AGENTS TO MEET EPA STANDARDS.

C. GLAZING: NONE

DUART LOWERS: 0083-TS EXTRUDED ALUMINUM ALLOY, 0.082-NCH (1.57 MM) MINIMUM THICKNESS LOUVER BLADES SHALL BE INVERTED "Y "TYPE. INSECT SEREENS: 14-18 MEGH, 0.011-INCH (0.28 MM) DIAMETER ALUMINUM, BET IN 0083-TS EXTRUDED ALUMINUM ALLOY FRAME, 0.050-INCH (1.25 MM) MINIMUM THICKNESS.

1. FRAME COMPONENTS: EXTRUDED CHANNEL 8083-TS ALUMINUM ALLOY, MINIMAM WALL THICKNESS 0.125-INCH (8.18 MM); CUT CORNERS SQUARE AND JOINERY SHALL BE MECHANICAL WITH NO EXPOSED FASTEMENS.

PROFILE: OPEN BACK WITH APPLIED STOP (OBS), 1.75-INCH BY 5-INCH (44 X127 MM)

 HINGE AND STRIKE MOUNTING PLATES: EXTRUDED AUJUNUM ALLYO BAS FOCK, 0.1875-INCH (4.75 MM), THICK MOUNTED IN A CONCEALED INTEGRAL CHANNEL WITH NO EXPOSED FASTENERS.

2.3 FINISH INOTE: RETAIN ONE OR MORE OF THE FOLLOWING PARAGRAPHS TO SPECIFY FINISH.] FINISH: CLEAR ANODIC COATING; AA-M12C22A31 CLASS II MECHANICAL FINISH, NON-SPECULAR, WITH CHEMICAL NEDRUM-MATTE ETCH, MINIMUM THICKNESS 0.4-NIIL (0.01 MM).

COLOR: SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS

A. GENERAL: RECEIVE HARDWARE IF REQUIRED BY MANUFACTURER.

 ALUMINUM THUSH DOOR CONSTRUCTION: OF TYPE, SIZE AND DESIGN INDICATED:
 MINIMUM THICKNESS: 1.75-INCHES (44 MM), 5-PLY COMPOSITE LAMINATE SYSTEM.
 DOOR SIZE: BIZES BHOWN ARE NOMINAL; PROVIDE STANDARD CLEARANCES AS F HINGE AND LOCK STILES; 0.125-INCH (3.18 MM).

BETWEEN MEETING STILES: 0.25-INCH (6.35 MM)

AT TOP RAILS: 0.125-INCH (3.18 MM).
BETWEEN DOOR BOTTOM AND THRESHOLD: 0.125-INCH (3.18 MM).

2.5 ACCESSORIES

FASTENERS: ALUMINUM, NONMAGNETIC STAINLESS STEEL, OR OTHER MATERIAL WARRANTED BY MANUFACTURER ASMON-CORROSIVE AND COMPATIBLE WITH ALUMINUM COMPONENTS. MANUFAL LINES ASSUMPTIONS OF AN EXPERIMENT.

1. DO NOT USE EXPOSED PASTEMERS.

BRACKETS AND REINFORCEMENTS: MANUFACTURER'S HIGH-STRENGTH ALUMINUM UNITS WHERE FEASIBLE, OTHERWISE, NONFEROUS STABLESS STEEL.

BITUMINOUS COATING: COLD-APPLIED ASPHALTIC MASTIC, COMPOUNDED FOR 30-MIL (0.76 MM)
THICKNESS PER COAT.

 VERIFY THAT WALL SURFACES AND OPENINGS ARE READY TO RECEIVE FRAMES AND ARE WITHIN TOLERANCES SPECIFIED IN MANUFACTURER'S INSTRUCTIONS. B. VERIFY THAT FRAMES INSTALLED BY OTHER TRADES FOR INSTALLATION OF DOORS OF THIS SECTION ARE IN STRICT ACCORDANCE WITH RECOMMENDATIONS AND APPROVED SHOP DRAWINGS AND WITHIN

3.2 PREPARATION A. PERFORM CUTTING, FITTING, FORMING, DRILLING, AND GRINDING OF FRAMES AS REQUIRED FOR PROJECT CONDITIONS; DO NOT DAMAGE SIGHT-EXPOSED FINISHES.

B. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYTIC ACTION BETWEEN METALS.

A. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWNIGS; BET FRAMES PLUMS, SOLANE, LEVEL, AND ALIGNED TO RECEIVE DOORS.

A. INCHOR FRAMES TO ADJACANT CONSTRUCTION IN STRUCT ACCORDANCE WITH RECOMMENDATIONS AND APPROVED SHOP DRAWNIGS AND WITHIN TOLERANGES SPECIFIED IN MANUFACTURER'S INSTRUCTION. SEAL METAL-TO-METAL JOINTS BETWEEN FRAMING MEMBERS USING GOOD QUALITY ELASTOMERIC BEALANT.

10/01/15

VERSION

RE-ISSUED. NO CHANGES FROM PREVIOUS

C. WHERE ALUMINUM SURFACES CONTACT WITH METALS OTHER THAN STAINLESS STEEL, ZINC OR SMALL AREAS OF WHITE BRONZE, I] PROTECT FROM DIRECT CONTACT BY ONE OR MORE OF THE FOLLOWING

1. PAINT DISSIMILAR METAL WITH ONE COAT OF HEAVY-BODIED BITUMINOUS PAINT APPLY GOOD QUALITY ELASTOMERIC SEALANT BETWEEN ALUMINUM AND DISSIMILAR METAL PAINT DISSIMILAR METAL WITH ONE COAT OF PRIMER AND ONE COAT OF PAINT RECOI ALLIMINUM BLIRFACE APPLICATIONS.

4. USE NON-ABSORPTIVE TAPE OR GASKET IN PERMANENTLY DRY LOCATIONS.

1. HINGE AND LOCK STILES: 0.125 INCH (3.18 MM). 2. BETWEEN MEETING STILES: 0.250 (NCH #6.35 MM)

3. AT TOP RAILS: 0.125 INCH (3.18 MM).

4. BETWEEN DOOR BOTTOM AND THRESHOLD: 0.125 INCH (3.18 MM). E. ADJUST DOORS AND HARDWARE TO OPERATE PROPERLY. F. INSTALLATION OF DOOR HARDWARE IS SPECIFIED IN SECTION 08

A. UPON COMPLETION OF INSTALLATION, THOROUGHLY CLEAN DOOR AND FRAME SURFACES IN ACCORDANCE WITH AAMA 609. B. DO NOT USE ABRABIVE, CAUSTIC OR ACID CLEANING AGENTS.

3.5 PROTECTION A. PROTECT PRODUCTS OF THIS SECTION FROM DAMAGE CAUSED BY SUBSEQUENT CONSTRUCTION UNTIL SUBSTANTIAL COMPLETION.

REPLACE DAMAGED OR DEFECTIVE PRODUCTS THAT CANNOT BE REPAIRED TO ARCHITECT'S ACCEPTANCE.

END OF SECTION 08 11 16

REPAIR DAMAGED OR DEFECTIVE PRODUCTS TO ORIGINAL SPECIFIED CONDITION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

UGARTE ARCHITECTURE 434 9th AVENUE WEST

HONE (941)729-5691 AX (941)729-5692 - AA-C001654 -

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REVISIONS 10/01/15 PROJECT NO: 2013-31

> SHEET A902

CARLOS D. UGARTE LIC: NO. AR-0010725

DIVISION 9 - FINISHES

SECTION 09 22 00 - PORTLAND CEMENT PLASTER

- 1.1 RELATED DOCUMENTS
- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
- A. THIS SECTION INCLUDES THE FOLLOWING:
- 1. EXTERIOR PORTLAND CEMENT PLASTERWORK (STLICCO) ON SOLID PLASTER BASES
- A. STORE MATERIALS INSIDE LINGUER COMER AND KEEP THEM DRY AND PROTECTED AGAINST DAMAGE FROM WEATHER, DIRECT BUNLIGHT, SURFACE CONTAMINATION, CORROSION, CONSTRUCTION TRAFFIC AND OTHER CAUSES.
- A. COMPLY WITH ASTM C 926 REQUIREMENTS.
- B. EXTERIOR PLASTERWORK:
- D. CHICHOUT PURS INTERMED AND THE PLASTER DRYING DUT DURING CURING PERIOD. USE PROCEDURES REQUIRED BY CLIMATIC CONDITIONS, INCLUDING MOIST CURING, PROVIDING COVERINGS, AND PROVIDING BREFIERS TO DEFLICE US, MUCH AND WIND.
 APPLY PLASTER WHEN AMBIENT TEMPERATURE IS GREATER THAN 40 DEG F.
- PROTECT PLASTER COATS FROM FREEZING FOR NOT LESS THAN 48 HOURS AFTER SET OF PLASTER COAT HAS OCCURRED.

PART 2 - PRODUCTS

- 2.1 METAL LATH
- A. EXPANDED-METAL LATH: ABTM C 847 WITH ASTM A 853/A 853M, G60, HOT-DIP GALVANIZED ZINC COATING. 1 DIAMOND MESH LATH: FLAT
- 2.2 ACCESSORIES
- A. GENERAL: COMPLY WITH ASTNIC 1083 AND COORDINATE DEPTH OF TRIM AND ACCESSORIES WITH THICKNESSES AND NUMBER OF PLASTER COATS REQUIRED.
- 2.3 MISCELLANEOUS MATERIALS
- A. WATER FOR MIXING: POTABLE AND FREE OF SUBSTANCES CAPABLE OF AFFECTING PLASTER SET OR OF DAMAGING PLASTER. LATH, OR ACCESSORIES.
- B. FIBER FOR BASE COAT: ALKALINE-RESISTANT GLASS OR POLYPROPYLENE FIBERS, 1/2 INCH LONG, FREE OF CONTAMINANTS, MANUFACTURED FOR USE IN PORTLAND CEMENT PLASTER.
- D. STEEL DRILL SCREWS FOR METAL-TO-METAL PASTENING, ASTIM C 1002 OR ASTIM C 164, AS REQUIRED BY THROCKESS OF METAL ERVIS FASTENED, WITH PAN HEAD THAT IS SUTABLE FOR APPLICATION; IN THREE EPO-05ED THREAD IN THE PAN HEAD THAT IS SUTABLE FOR METALENCE FOR METALE THAN THREE EPO-05ED THREAD IN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THREE EPO-05ED THREAD IN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THREE EPO-05ED THREAD IN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THREE EPO-05ED THREAD IN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THE PAN HEAD THAT IS SUTABLE FOR METALE THAN THE PAN HEAD THAT IS SUTABLE FOR METALE FOR METALE THAN THE PAN HEAD THAT IS SUTABLE FOR METALE FOR M
- E. FASTENERS FOR ATTACHING METAL LATH TO SUBSTRATES: COMPLYING WITH ASTM C 1083.
- 2.4 PLASTER MATERIALS
- A. PORTLAND CEMENT: ASTM C 150, TYPE I OR II.
- 1. COLOR FOR FINISH COATS: WHITE. B. LIME: ABTM C 208, TYPE S: OR ASTM C 207, TYPE S.
- C. SAND AGGREGATE: ABTM C 897.

 1. COLOR FOR JOB-MIXED FINISH COATS; WHITE.
- 2.5 PLASTER MIXES
- PLASTER NICES

 G MENERAL: COMPLY WITH ASTM C 928 FOR APPLICATIONS INDICATED.

 I RIBER CONTRINT. ADD FIBER TO BASE-COAT MIXES AFTER INGREDIENTS HAVE MIXED AT LEAST TWO MINUTES. COMPLY WITH FIBER MANUFACTURENTS WRITTEN INSTRUCTIONS FOR FIBER CULATITIES IN MIXES, BUT DO NOT EXCEED I LIS. OF FIBERCUL FT. OF CEMENTITIOUS NATERIALS, REDUCE ADDRESS. TO CONTRIBE ADMITTER SECONDINICY. TO MANY TANN MORRADIES.
- B. BASE-COAT MIXES FOR USE OVER MONOLITHIC CONCRETE: SINGLE BASE COATS FOR TWO-COAT PLASTERWORK AS FOLLOWS:
- LIGI DETWOMS AS PULLUYES:

 PORTLAND CEMENT MIX. FOR CEMENTITIOUS MATERIAL, MIX. 1 PART PORTLAND CEMENT AND 0 TO 3/4
 PART LIME: USE 2-112 TO 4 PARTS AGGREGATE PER PART OF CEMENTITIOUS MATERIAL (SUM OF
 SEPARATE VOLUMES OF EACH COMPONENT MATERIAL). C ... JOR-MIXED FINISH-COAT MIXES
- PORTLAND CEMENT MIX: FOR CEMENTITIOUS MATERIALS, MIX 1 PART PORTLAND CEMENT AND 3/4 TO
 1-1/2 PARTS LIME. USE 1-1/2 TO 3 PARTS AGGREGATE PER PART OF CEMENTITIOUS MATERIAL, (SUM
 OF SEPARAT VOLUMES OF EACH COMPONENT MATERIAL). D. MODIFIED CEMENT PLASTER SHALL BE EQUAL TO STOSILCO SHIELD AND REINFORCING MESH.

- 3,1 EXAMINATION
- A. EXAMINE AREAS AND SUBSTRATES, WITH INSTALLER PRESENT, AND INCLUDING WELDED HOLLOWARTAL FRAMES, CAST-IN ANCHORS, AND STRUCTURAL FRAMINS, FOR COMPLIANCE WITH REGULREMENTS AND OTHER CONDITIONS AFFECTIVES PERFORMANCE.

 1. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

- A. PROTECT ADJACENT WORK FROM SOILING, SPATTERING, MOISTURE DETERIORATION, AND OTHER HARMFUL EFFECTS CAUSED BY PLASTERING.
- B. PREPARE SOLID-PLASTER BASES THAT ARE SMOOTH OR THAT DO NOT HAVE THE SUCTION CAPABILITY REQUIRED TO BOND WITH PLASTER ACCORDING TO ASTM C 926.
- REQUIRED TO BOND WITH PLASTER ACCORDING TO ASTIM C28.

 C. COCORDINATION WITH SPRAYED FIRE-RESISTIVE MATERIALS:

 1. BEFORE SPRAYED FIRE-RESISTIVE MATERIALS ARE APPLIED, ATTACH OFFSET ANCHOR PLATES OR CELLING NUMBERS (TRACKOT) TO SURFACES BIOLIZED TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS. WHERE OFFSET ANCHOR PLATES ARE REQUIRED, PROVIDE CONTINUOUS PLATES FASTENED TO BUILDING STRUCTURE NOT MORE THAN 28 INCHES O.C.
- 3.3 INSTALLING METALLATH
- EXPANDED-METAL LATH: INSTALL ACCORDING TO A8TM C 1083.

 1. ON SOLID SURFACES, NOT OTHERWISE FURRED: INSTALL SELF-FURRING DIAMOND-MESH LATH.
- 3.4 INSTALLING ACCESSORIES
- A. INSTALL ACCORDING TO ASTM C 1083 AND AT LOCATIONS INDICATED ON DRAWINGS.

A. GENERAL: COMPLY WITH ASTM C 928,

- 3.5 PLASTER APPLICATION
- A. CUT, PATCH, REPLACE, AND REPAIR PLASTER AS NECESSARY TO ACCOMMODATE OTHER WORK AND TO RESTORE CRACKS, DENTS, AND IMPERFECTIONS, REPAIR OR REPLACE WORK TO ELIMINATE BLISTERS, BUCKLES, CRAZING AND CHECK CRACKING, DRY QUTS, EPFLORESCENCE, SMEAT OUTS, AND SIMILAR DEFECTS AND WHERE BOND TO SUBSTRATE HAS FAILED.
- 3.7 CLEANING AND PROTECTION
- A. REMOVE TEMPORARY PROTECTION
 AND ENGLOSURE OF OTHER WORK, PROMPTLY REMOVE PLASTER
 FROM DOORFRAMES, MINDOWS, AND OTHER SURFACES NOT INDICATED TO BE PLASTERED. REPAIR
 FLOORS, WALLS, AND OTHER SURFACES STAINED, MARRED, OR OTHERWISE DAMAGED DURING
 PLASTERING.

END OF SECTION 09 22 00

PART 1- GENERAL

1 1 RELATED DOCUMENTS

A DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY COMPATIONS AND DIVERSION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

SECTION 09 91 00 - PAINTING

A. THIS SECTION INCLUDES SURFACE PREPARATION AND THE APPLICATION OF PAINT SYSTEMS ON THE 1. CONCRETE/STUCCO

2.1 MANUFACTURERS

2 HARDIBOARD (CEMENTITIOUS SIDING TRIM AND SOFFID

- N. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
- BEN MAIN MOORE & CO
- 3. COLOR WHEEL
- 2.2 PAINT GENERAL
- PAINI, GENERAL,
 MATERIAL COMPATIBILITY:
 PROVIDE MATERIALS FOR USE WITHIN EACH PAINT SYSTEM THAT ARE COMPATIBLE WITH ONE ANOTHER AND GURSTRATES INDICATED, UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.
- FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCT'S RECOMMENDED IN WRITING BY MANUFACTURIERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
- COLORS: SHOWN ON DRAWINGS. INTENT IS TO MATCH COLORS TO THE EXISTING "MARINE RESCUE" BUILDING ADJACENT.

A. INTERIOR / EXTERIOR LATEX PRIMER/SEALER: FRESH START LATEX PRIMER 023 (3.8 MIL6 WET, 1.1 MIL8

2.4 INTERIOR PAINTS (WALLS AND CEILING)

- A. SEMI-GLOSS FINISH
- 18T COAT: MOORE'S FRESH START 023 ACRYLIC PRIMER
- 2. 2ND COAT MOORECRAFT SUPER SPEC ACRYLIC EPOXY COATING 256 (4 MILS WET, 1.5 MILS DRY PER COAT)

2.5 EXTERIOR CONCRETE OR STUCCO (WALLS AND EAVES)

- A. MATTE FINISH
- 1. 1ST COAT: MOORE'S FRESH START 023 ACRYLIC PRIMER
- 2ND COAT MOORE'S SUPER SPEC HP ALIPHATIC ACRYLIC URETHANE GLOSS P74 (2.8 MILS WET, 2 MILS DRY PER COAT)

2.5 CONCRETE FLOORING

- 1. 16T COAT: MOORE'S SUPER SPEC HP FAST DRY EPOXY FLOOR SEALER/FINISH P41 (4.9 MILS WET, 1.5 MILS DRY PER COAT)
- 2. AGGREGATE: MOORE'S ASUPER SPEC HP ANTI-SLIP AGGREGATE P67

- A. EXAMINE SUBSTRATES AND CONDITIONS, WITH APPLICATOR PRESENT, FOR COMPLIANCE WITH. REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT AND OTHER CONDITIONS AFFECTING
- B. VERIFY SUITABILITY OF SUBSTRATES, INCLUDING SURFACE CONDITIONS AND COMPATIBILITY WITH EXISTING FINISHES AND PRIMITES.
- C. BEGIN COATING APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AND SUPFACES ARE DRY.
- BEGINNING COATING APPLICATION CONSTITUTES CONTRACTORS ACCEPTANCE OF SUBSTRATES AND CONDITIONS

- A. COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES INDICATED.
- REMOVE PLATES, MACHINED SURFACES, AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE NOT TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SUZE OR WEIGHT OF ITEM, PROVIDE SURFACE-REPAINTON AND PAINTING.
- AFTER COMPLETING PAINTING OPERATIONS, USE WORKERS SKILLED IN THE TRADES INVOLVED TO REINSTALL ITEMS THAT WERE REMOVED. REMOVE SURFACE APPLIED PROTECTION IF ANY.
- DO NOT PAINT OVER LABELS OF INDEPENDENT TESTING AGENCIES OR EQUIPMENT NAME, IDENTIFICATION, PERFORMANCE RATING, OR NOMENCLATURE PLATES.
- C. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PANELS, INCLUDING DIRT, OIL GREASE, AND INCOMPATIBLE PAINTS.
- REMOVE INCOMPATIBLE PRIMERS AND RE-PRIME SUBSTRATE WITH COMPATIBLE PRIMERS AS REQUIRED TO PRODUCE PAINT SYSTEMS INDICATED.
- D. MASONRY BUBSTRATES: CONCRETE AND MASONRY SUBSTRATES SHOULD BE CLEAN, DRY AND FREE OF OIL, GREASE, FORM RELEASE AGENTS AND CURING COMPOUNDS.
- 2. NEW CONCRETE AND MASONRY MUST BE ALLOWED TO CURE 28 DAYS.

 3. PRIME ALL EXPOSED EDGES OF MASONRY.

3.3 APPLICATION

- APPLY PAINTS ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS.
 USE APPLICATORS AND TECHNIQUES SUITED FOR PAINT AND SUBSTRATE INDICATED.
- PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE BAME AS SIMILAR EXPOSED SURFACES, BEFORE FINAL INSTALLATION, PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY.
- THE EACH UNDERSONAT A UNIFITY SHADE TO FACILITY IDENTIFICATION OF EACH COAT IF MULTIPLE COATS OF SAME MATERIAL ARE TO BE APPLIED. TINT UNDERCOATS TO MATCH COLOR OF TOPCOAT, BUT PROVIDE SUPPRESENT DIFFERENCE IN SHADE OF UNDERCOATS TO DISTINGUISH EACH EDPARATE COAT.
- C. IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE. D. APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDNESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHAPP LURES AND COLLOR REMAKS.

- A. AT END OF EACH WORKDAY, REMOVE RUBBISH, EMPTY CANS, RAGS, AND OTHER DISCARDED MATERIALS
- B. AFTER COMPLETING PAINT APPLICATION, CLEAN SPATTERED SURFACES, REMOVE SPATTERED PAINTS BY WASHING, SCRAPING, OR OTLIER METHODS, DO NOT SCRATCH OR DAMAGE ADJACENT FINISHED
- SURFACES.

 FROTECT WORK OF OTHER TRADES AGAINST DAMAGE FROM PAINT APPLICATION, CORRECT DAMAGE TO WORK OF OTHER TRADES BY CLEANING, REPARING, REPLACING, AND REPRISHING, AS APPROVED BY ARCHITECT, AND LEAVE IN ALL HOLDMAGE D. AT COMPLETION OF CONSTRUCTION ACTIVITIES OF OTHER TRADES, TOUCH UP AND RESTORE DAMAGED OR DEFACED PAINTED SURFACES.

3.5 INTERIOR PAINTING SCHEDULE

- a. PRIME COAT: ACRYLIC-BASED PRIMER.
- b. TOPCOAT ACRYLIC EPOXY COATING (SEMI-GLOSS

B. CONCRETE SUBSTRATES (FLOORING)

- EPOXY SYSTEM:
 PRIME COAT: EPOXY SEALER.

3.8 EXTERIOR SYSTEMS

- MASONRY INCLUDING HARDI CEILINGS
- 1. ACRYLIC / URETHANE SYSTEM: B. PRIME COAT: ACRYLIC-BASED PRIMER.
- b. TOPCOAT ACRYLIC URETHANE (GLOSS)

DIVISION 10 - SPECIALTIES

DIVISION 11 - EQUIPMENT BY OTHERS

DIVISION 12 - FURNISHINGS

DIVISION 22 - PLUMBING SEE "P" SHEETS

DIVISION 23 - HEATING VENTILATION AND AIR CONDITIONING

DMISION 26 - ELECTRICAL

DIVISION 31 - BUILDING EARTHWORK



434 9th AVENUE WEST PALMETTO, FLORIDA 34221 PALMETTO, FLORIDA 34221 PHONE (941)729-5691 FAX (941)729-5692

- AA-C001854

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REVISIONS 10/01/15

10/01/15

ACCESSORIES

RE-ISSUED. EDITED TO REMOVE BATH

DJECT NO: 2013-3 ATE: 04/02/1! RAWN BY: CU/BL HK'D BY: CU/DB

SHEET A903

LIC. NO. AR-0010725

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL PLUMBERS, AND STE DERAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSEBILITY TO DETERMINE ERECTION PROCEDURES AND SECURING TO INSURE SPETY OF THE BUILDING AND ITS COMPONEN DURING ERECTION. THIS INCLUDES THE ADDITION OF RECESSARY SHORMS, SEPERING, TEMPORATY PROCEDING, ONCY REDOWNING

20 psf. 25 psf. 8 psf. (AVAILABLE TO RESIST UPLIFT)

SHOP DRAWING REVIEW:

SHOP DRIVININGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LEDGTH, ELEVATIONS, DIMENSIONS, ETC.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW NOTATION WILL BE RETURNED UNCHECKED.

IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN A REQUEST FOR INFORMATION (RFI) OR SMALAR DOCUMENTATION BY THE ENGINEER.

SHOP DRAWINGS SHOULD BE SUBMITTED FOR ALL COMPONENTS OF THE STRUCTURAL FRAMING SYSTEM, AS REQUIRED BY THE ARCHITECT, AND AS NOTED SUBMINERS IN THESE HOTES, INCLUDING, BUT NOT LIMITED TO. COMPRETE MIX DESIGNS MASCHAPY BLOCK ACCESSORES MASCHAPY BLOCK ACCESSORES MASCHAPY BLOCK ACCESSORES

MASONRY REINFORCING
CONCRETE REINFORCEMENT
PRE-ENGINEERED WOOD TRUSSES
PRECAST DRIVEN PILE LAYOUT AND DETAILS

FOUNDATIONS:

SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. STE PREPARATION AND FOUNDATION INSTALLATION SHALL COMPLY WITH

REPORT No.: 11-7419
DATED: February 12, 2014
PREPARED BY: ARDAMAN & ASSOCIATES, INC.

PREPARED BY: ARDIANAN & ASSOCIATES, INC.
TITLED: GEOTECHNICAL EXPLORATION FOR NORTH COQUINA BOAT RAMP GULF DRIVE, BRADENTON BEACH, MANATEE COUNTY, FL.

FOUNDATION DESIGN IS BASED ON A SOR REARING PRESSURE OF 2,000 psf.

SHALL BE MANUFACTURED WITH A MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY TO ATTAIN A STRENGTH OF 5,000 pill AT DRIVING. CONCRETE SHALL ATTAIN A STRENGTH OF 5,000 pill ATT DRIVING. CONCRETE SHALL ATTAIN A STRENGTH OF 5,000 pill ATT DRIVING. CONCRETE SHALL ATTAIN A STRENGTH OF 3,000 pill ATTAIN MARKET STRENGTH ATTAIN AS STRENGTH OF STRENG

PRICE OF PILING SHALL INCLUDE COST OF RETAPPING. PILES TO BE CUT OFF SQUARE AT PROPER ELEVATIONS ALLOWING A MINIMUM OF 18" OF PILE STEEL TO PROJECT INTO GRADE BEAMS AND/OR PILE CAPS.

"PILE TESTING: LOAD TESTS SHALL BE MADE ON THE PLING IN PLACE, F REQUIRED BY THE LOCAL BUILDING DEPARTMENT OR THE GEOTECHNICAL BURNERS. LOAD TESTED PLES MAY BE USED AS PRODUCTION PILES F APPROVED BY THE GEOTECHNICAL BURNERS. THE CHITPIEN AS SET FORMY IN THE STANDARD BUILDING DOES SHALL BE USED IN SESTABLISH ACCEPTABLISTY OF TESTED PLES. LOAD TESTING APPARATIS AND PROCEDURE SHALL BE SUBMITTED TO THE GROWNER PROOF TO THE BEGINNING OF THE TEST. LOAD OF THE LOAD TEST SHALL BE AT THE DISORSTRING OF THE BROWNERS. WHEREOUTHOR THAT THE LOAD TEST REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY AN INDEPENDENT GEOTECHNICAL CONSULTANT ENPLOYED BY THE GIVER AND APPROVED BY THE BEGINGER.

AN AB, BULLT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A FLORIDA REGISTERED LAVID SURVEYOR. PILES SHALL BE LOCATED ON THE AS, BULLT DRAWNES HORIZOMALLY MO VERTICALLY FROM THE COLUMN CENTERLINES AND BE SUBMITTED IN AUTOCAD "TOWER FORMAL", SUBMITTED IN AUTOCAD "TOWER FORMAL", SUBMITTED IN AUTOCAD "TOWER FORMAL", SUBMITTED AS, BULLT DRAWNESS TO THE STRUCTURAL DEMORBER FOR PRPRICIAL.

PRÉCAST CONCRETE PILES. TO BE REINFORCED COMCRETE POURED UNDER THE CONTROL OF AN APPROVED TESTING LASORATORY ACHEMINE A STEMENTH OF SURDI AND THAT DENING. TOUR PILES SHALL HAVE 48Y VERTICAL, SPACE, AT EXC. PLES AS "OC. EXCEPT AT THE TIP AND BUTTE BOW WHERE REY LES SHALL ES SPACED AT "OC. PLES TO GECT OF FOR SURJUNE AT PROPER ELEVATIONS ALLOWING A INHIBIDILING THE "OF PILE PERIFORCING TO PROJECT INTO THE PILE CAPS ANDOER GRADE BEAMS.

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO_THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACC

PLUMBING SLEEVES:

MINIMALIM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO CONSTRUCTION SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY THE ENGINEER.

SHALL BE ASTM 4615 GRADE 60 DEFORMED BARS, FREE FROM OL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DUGGNAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWNINGS PRIOR TO COMMENCING PARRICATION.

TO CONFORM TO ASTIM A, 185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS, MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 26 DAYS AS LISTED BELOW WITH A PLASTIC

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ALL STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY TIME STAMPED WHEN CONCRETE IS BATCHED.

THE MAXIBURATIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT THE MAXIAMATIME ALLOWED FROM THE THE HER WORK WATER IS ADDED BYTE. IT IS DEPOSITED IN ITS FIRM, POSITION SINUL, NOT DECEDID ONE AND DEW HILF (1.12) AND USE FOR FOR MESSAGE. THERE IS A LONGE BLEAT THAN THAT STATED ABOVE, THE CONCRETE IS WILL BE DECARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTINOL BLEAT THAN THAT STATED ABOVE, THE AND THE CONTRACTOR OF ANY MONOCAMPURCE WITH THE RESPONSIBILITY OF THE TESTINOL BLE OWING THAT STATED ASSOCIATION GIVEN COMPOUND HET THAT STATE STANDARD COUNTY THE TO AND SHALL HAVE A PURITHED THE CHIEF DEPOSITION GIVEN AS THE PRISHING SCORE LETER OF AS SOON AS THE METANT WAS LET THE VERHINGED CONCRETE. ALL SOUTHED ON BROKEN AREAS IN THE CURRON BECOME SHALL BE RECOVED TO AND THE STANDARD OF THE THE PRISH OF THE CHIEF OF THE PURPOSE. THE AREAS OF THE CURRON BECOME SHALL BE RECOVED TO AND THE STANDARD OF THE CHIEF OF THE PURPOSE.

ALL CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

ALL CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK, UP DATA AS PER CHAPTER 5 OF ACI 318.05.

CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH (FORMED FACE): CONCRETE EXPOSED TO WEATHER:

WHERE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, AND JOISTS: #14 & #18 BARS -#11 BARS AND SMALLER -ALL BARS -1 1/2" 3/4" 1 1/2" BEAMS AND COLUMNS:

SEE ACI 318 FOR ADDITIONAL REQUIREMENTS AND MORE INFORMATION. CONCRETE TESTING:

AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

A) ASTINICIAL "STANDARD TEST METHYDD FOR GLUMP OF PORTUND CEMENT CONCRETE." MAXDIAMI SLUMP SHALL BE 4-6 INCHES, PRORT TO ADDING A SAFER FASTISIZER.

B) ASTINICIAL "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CHUMPINAL CONCRETE SECURIES." A SEPARATE TEST SHALL BE COMMUNITAD FOR EACH CLUSS, FOR EVERY 50 CUSIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. RECURRED CHUMPINA AND TEST AGE AS FOLLOWS:

1 AT 7 DAYS

2 AT 20 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.

NON-SPRING GROUT SMALL BE A HIGH-STRENGTH MORTAR OR GROUT WITH A MINIMAIN COMPRESSIVE STRENGTH OF 5000 pm AT 28 DAYS. THE GROUT IS TO BE MONAETALLIS, MONOGROUNG, CEMENT-BASED AND SMALL CONCROMENTO THE REQUIREMENTS OF ASTM

CHEMICAL ANCHORS:

SHALL BE AN EQUAL TWO PART EPOXY POLYMER INJECTION BYSTEM, SUCH AS SIMPSON SET-AP "STRUCTURAL ANCHORRING ADJESSINE", HILT HILTHY 150 MAY-50 ORE BYSINEER APPROVED SUBSTITUTION, BISTALLED IN ACCORDANCE WITH MANUFACTURERS S

MASONRY WALLS:

MASCARRY UNITS SHALL MEET ASTIM 0, 80 FOR HOLLOW LOAD BEARING TYPE MASCARRY WITH LINT STRENGTH OF 1000 pai ON THE NET AREA (THE 1000 pai, MORTIAN SHALL BE TYPE "IN ON "S" AND MEET NETTH C, 776. GOOD IN STALL BE 3000 pai MARMAM COMPRESSIVE STRENGTH AND MEET ASTIM C, "AR. PROTOME HOOKED DOWN SH POOTINGS FOR ALL VERTICAL REINDROCKOMS ASOM." LIVE SPLICES NE

PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR. O. WALL OR EINGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES, BEGINNING ST ABOVE FOOTINGS AND FLOOR LEVELS.

GROUT LET: AN INCREMENT OF GROUT HEIGHT WITHIN A TOTAL GROUT POUR.

THE TOTAL REGIST OF IMAGENETY DISE CROUTED PRIOR TO ERECTION OF ADDITIONAL MASONRY. A GROUT POUR CONSISTS OF ONE OR MORE GROUT LETS. GROUT POURS SHALL SET FOR A MINIMUM OF 4 HOURS BEFORE ANY ADDITIONAL GROUT PACKERENT.

GROUT SHALL HAVE A SLUMP BETWEEN 8 AND 11 INCHES, EXCEPT SELF-CONSOLIDATING GROUT. JOB-SITE PROPORTIONING OF SELF-CONSOLIDATING GROUT IS NOT PERMITTED.

- MASONRY GROUTING REQUIREMENTS:
 1. FIELD-MIXED GROUT SHALL BE PLACED WITHIN 1-1/2 HOURS FROM INTRODUCING WATER INTO THE MIXTURE AND BEFORE INITIAL.
- 2 CROUT SHIMP RECHIREMENTS:

- MAX.).

 GROUT LIFT HEIGHTS EXCEEDING 5 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:

 a. MASONRY MORTAR HAS CURED FOR AT LEAST 4 HOURS.
- A MISCONY JOINTAIN HIS CIRED FOR AT LEST A HOURS.

 IN GROUT SURFER SETMENT HIS HOUR HIS MESS.

 IN HITTERMEDIATE DOUGLEAUS ARE PLACED BETWEEN THE TOP AND BOTTON OF THE GROUT LET HEIGHT.

 BEACH CROTH, LET FOULLE CONSIDERATED WINGOMENICAL WIRRATION AT THE TIME OF PLACEMENT. CONSOLIDATION S NOT

 RECUMED FOR SELF-CONSOLIDATING GROUT.

- SELF-CONSCIDENTIAL GROUT.

 I. THE TIME REPRENDENCE GROUT LIFTS SHALL NOT EXCEED I HOUR.

 T. THE MANUAL HOUR HEIGHT IS AFRET.

 A GROUT KEY SHALL BE PROVIDED AT THE TOP OF EACH GROUT LIFT AND GROUT POUR. GROUT KEYS SHOULD BE FORMED BY TERMANTHS THE GROUT 1-12 MONTES BELOW A MONTAR JOINT.

TIE BEAMS:

BEAMS WITH THE PREFIX TIS "SHALL BE OF CONCRETE POURED AFTER THE BLOCK WALLS BELOW ARE IN PLACE. REINFORCING SHALL BE CONTINUOUS THROUGH THE SHAMS WITH MANMAIN AP SPLICES OF AS BAY DIAMETERS AND BENT SAYS AT CORNERS. USE METAL LITH, MORTLAY, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH ACT 500.1, SECTION 4.13.3 (SCILD METAL OR FREET CAUTY CAPS ARE PROMISTED).

MASONRY OPENINGS LESS THAN 6 FEET SHALL BE SPANNED WITH AN 0° SPAN RATED PRECAST/PRESTRESSED CONCRETE LINTEL. ALL PRECAST LINTELS SHALL BEAR A MINIMUM OF 8° AT EACH END ON A GROUT FILLED CELL.

WHERE A CONCRETE COLLIMN OR CONCRETE TIE COLLIMN IS WITHIN 8" OF A MASONRY OPENING, THE LINTEL SHALL BE AN 8"x16" CONCRETE CAST-IN-PLACE BEAM WITH (20 45 BARS TOP AND BOTTOM, AND 45'S TITRILIPS AT 14" ON CENTER.

STRUCTURAL WOOD COMPONENTS (BEAMS, NORTS, RAFTERS, ETC.) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE FIBER STREBBES FOR NO. 2 SOUTHERN PINE CONFORMING TO 2005 NDS, WITH 2013 SUPPLEMENT, AS FOLLOWS:

SHEAR		Ev	= 175 psi.
BENDING	2308	Fb	= 1,000 pal.
BENDING	2008	Fb	= 925 pel.
BENDING	2X10	Fb	= 800 pel.
BENDING	2012	Fb	= 750 pal.

WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND AT OTHER LOCATIONS AS SHOWN ON STRUCTURAL DRAWNINGS, SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH ATIQ_100. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE.

PROMISERS DIVIDED TRISES SYNCHAES SHALL BEDESKINGED BY SUPPLIERTS SEPOLATIVE INCOMPRISES TO COMPOUNT TION AND LOAD, CARRYING CAPACITY SHOWN ON DEMINIOR AND SPECIFICATION. ALL REMINIORAL TRISES SHALL BEDESKING THIS PLATE COMPOUNT THE SHALL BE SHAL

ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS THE SPECIALTY ENGINEER. THE FOLLOWING LOAD DURATION FACTORS SHALL BE USED:

DEAD LOAD	0.90
DEAD LOAD + FLOOR LIVE LOAD	1.00
DEAD LOAD + ROOF LIVE LOAD	1.25

THE SUPERIMPOSED DEAD LOAD, AS SPECERED IN THE DESIGN LOADS SECTION ABOVE, INCLUDES THE OVERALL WEIGHT OF THE FRE-SPRINGER SYSTEM PIPES. THE GENERAL CONTINUTION SHALL PROMISE THE TRUSS MANUFACTURER WITH THE LOCATIONS OF THE PRE-SUPPORTS ON THE LOADS FROM LESTINGER THE SEGNITET THATE SUBMITS.

PLYWOOD ROOF, FLOOR, AND WALL SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE AND SHALL BE FASTENED IN ACCORDANCE WITH THE IMMINUM REQUIREMENTS OF

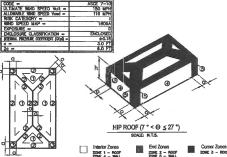
WOOD FRAMING CONNECTORS:

ALL CONNECTORS SHALL BE GALVANIZED. COMMECTOR MODEL NUMBERS SHOWN ARE STRONG-TE CONNECTOR AS MANUFACTURED BY SMIPRON STRONG-TIE CO., 656 W. LAS POSITAS BLVD., P.O. BOX 16768, REASANTON, CA. 94688, 600-969-5998. WWW.STRONGTE COM. SUBSTITUTIONS AND EACH COEFTABLE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. UNLESS SHOWN OTHERWISE, INSTALL SIZE AND "MANURAM" NUMBER OF FASTEHERS SHOWN IN LATEST SMIPPOIN CATALOG.

	WIN	ID LOAD SCHEDULE									
SCHEDULE OF COMPONENTS AND CLADDING LOADS											
ZONE	ZONE DESCRIPTION	TRIBUTARY AREA (SF)	IN (PRESSURE) (+PSF)	OUT (PRESBURE) (- PSF)							
1	ROOF INTERIOR ZONE	LESS THAN 20 20 - 100 MORE THAN 100	21.6 20.0 15.2	34.3 32.7 31.1							
2	ROOF, EDGE ZONE	LESS THAN 20 20 - 100 MORE THAN 100	21.6 20.0 15.2	59.6 54.9 43.8							
	ROOF, OVERHANG, EDGE ZONE	LESS THAN 20 20 - 100 MORE THAN 100		75.5 75.5 75.5							
3	ROOF, CORNER ZONE	LESS THAN 20 20 - 100 MORE THAN 100	21.6 20.0 15.2	88.2 82.8 69.2							
,	ROOF, OVERHANG CORNER ZONE	LESS THAN 20 20 - 100 MORE THAN 100		123.1 110.4 85.0							
4	WALL, INTERIOR ZONE	LESS THAN 20 20 - 100 MORE THAN 100	37.4 35.9 31.7	40.6 39.0 35.5							
5	WALL, EDGE ZONE	LESS THAN 20 20 - 100 MORE THAN 100	37.4 35.9 31.7	50.1 47.0 39.0							

NOTE: WIND PRESSURES SHOWN ARE BASED ON York

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UGARTE ARCHITECTURE

434 9th AVENUE WEST

- AA-C001654 -

MIN 95 NOTES ICTURAL NO SCHEDI

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NORTH BLDG C COQUINA STORAGE B

C

REVISIONS

PROJECT NO: 2013-31
DATE: 04/02/15
DRAWN BY: ARW
CHK'D BY: RDW y four 9/29/2015 ENGINEER OF RECORD RICHARD D. WILSON FL P.E. # 37784

Cert. of Authorization #9099

\$1.00

SHEET

TYPICAL COLUMN REINFORCEMENT DETAIL

AND ONE WAY SLABS



TYPICAL PILE CAP DETAILS

UGARTE

& ASSOCIATES, INC.

ARCHITECTURE
PLANNING

434 9th AVENUE WEST PALMETTO, FLORIDA 34221 PHONE (941)729-5691 FAX (941)729-5692 WWW.UGARTEARCHTECTURE.COM — AA-C001654 —

TYPICAL DETAILS

MC COQUINA NORTH STORAGE BLDG

REVISIONS

URAL NOTES.D'

PROJECT NO: 2013-31
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9/29/2015

ENGINEER OF RECORD
RICHARD D. WILSON
FL.P.E. # 37784

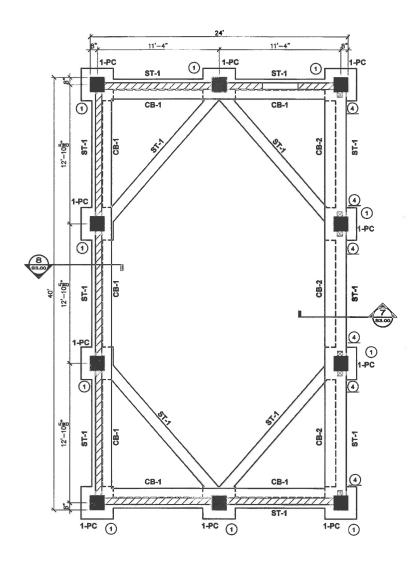
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FOUNDATION & GROUND FLOOR PLAN NOTES:

- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWNOS. SEE ARCHITECTURAL AND MEP FOR ADDITIONAL INFORMATION.
- 2. ELEVATIONS SHOWN ARE N.A.V.D. FINISHED FLOOR TO BE (4'-6" N.A.V.D.)
- 3. (GROUND FLOOR SHALL BE A 4" CONCRETE SLAB ON GRADE REINFORCE W/ FIBERMESH 650 AT THE SUPPLIER RECOMMENDED DOSAGE RATE. PROVIDE SLAB ON GRADE CONTROL JOINTS TO BE TOOLED ON SAWCUT. THE PATTERN SHALL BE APPROXIMATELY SQUARE AND LIMITED TO 16 SQUARE FEET. COORDINATE PATTERN AND MALIC SANDE FOOD FINISHED TOOD FOR SANDERS OF THE PATTERN AND SANDERS OF STRINGS OF THE PATTERN AND SANDERS OF STRINGS OF STRINGS OF THE PATTERN AND SANDERS OF STRINGS OF STRINGS OF THE PATTERN AND SANDERS OF STRINGS OF THE PATTERN AND SANDERS OF STRINGS OF THE PATTERN AND SANDERS OF SANDERS OF THE PATTERN AND SANDERS OF THE PATTERN A WITH WALLS AND FLOOR FINISHES.
- 1 INDICATES A 16"x16" CONCRETE COLUMN. PROVIDE (B)#6 VERTICAL REINFORCING BARS & #3 TIES © 12" O.C. (MAX SPACING). PROVIDE CLASS B LAP LENGTHS FOR VERTICAL REINFORCING BARS.
- 5. "ST-1" INDICATES A 12" WIDE x 16" DEEP CONCRETE STRAP BEAM W/ (2)#6 REINFORCING BARS TOP & BOTTOM AND #3 HOOPS © 18" O.C. (MAX SPACING). EXTEND TOP AND BOTTOM STEEL CONTINUALLY THRU CAPS OR TO FAR SIDE OF CAPS & HOOK, TOP OF BEAM AT 1'-0"(N.A.V.D.).
- "PC-#" INDICATES A CONCRETE PILE CAP. TOP OF CAP TO BE AT 1'-0" (N.A.V.D.) SEE PILE CAP DETAILS ON SHEET S1.01 FOR ADDITIONAL INFORMATION.
- 7. INDICATES A NON-LOAD BEARING 2x8 WOOD STUD BREAK-AWAY WALL PROWDE SINGLE PT BOTTOM PLATE AND DOUBLE PT TOP PLATE. ATTACH PLATES TO CONCRETE WITH ½"\$
 HILTI KWIK BOLT 3 ANCHORS (3½" EMBED INTO CONCRETE) © 24"
 O.C. ATTACH STUDS TO BOTTOM PLATE W/ (2)RSP4 EA. STUD AND TO TOP PLATE W/ (2)H5 EA. STUD. PROVIDE 4'-0" O.C. SOLID BLOCKING FOR HEIGHT OF STUD AND PROVIDE 13/2" APA RATED EXTERIOR PLYWOOD SHEATHING AT EXTERIOR, ATTACHED W/ 10d NAILS © 12" O.C. (MAX SPACING).
- 8. "CB-1" INDICATES AN 18"xCONTINUOUSx18"d CONCRETE CURB.
 REINFORCE W/ (2)#5 CONTINUOUS TOP AND BOTTOM AND #3 TIES

 18" O.C. MAX SPACING. CURB MUST BE ISOLATED FROM CONCRETE COLUMNS.
- 9. "CB-2" INDICATES A 24"CONTINUOUSx18"d CONCRETE CURB REINFORCE W/ (2) \$5 CONTINUOUS TOP AND BOTTOM AND \$3 TIES \$18" O.C. MAX SPACING. CURB MUST BE ISOLATED FROM CONCRETE COLUMNS.
- 10. (4) INDICATES A 6x6 PT POST TO BE ATTACHED TO CONCRETE COLUMN W/ ½" & THREADED A.B. & 35" O.C. (MAX SPACING). DRILL & EPOXY INTO CONCRETE COLUMN (4½" MIN. EMBED IN CONCRETE) PROVIDE HILTI HIT—RE 500 EPOXY ADHESIVE.

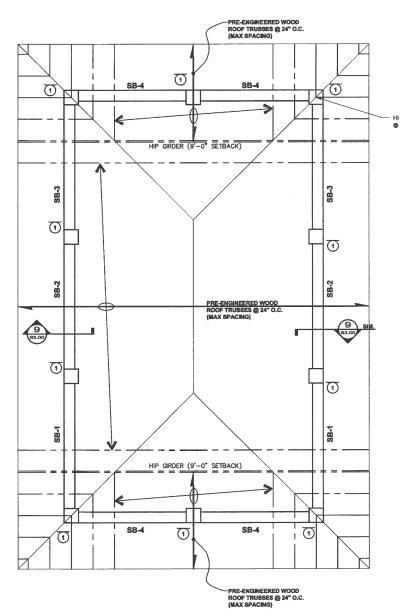


STORAGE GROUND FLOOR PLAN

	STORAGE BEAM SCHEDULE										
BEAM	ELEV. TOP OF	SIZE	REINFORCING				CLOSED HOOP				
NUMBER	BEAM	(INCH)	BOT	ТОР	,C,	E.	SIZE AND SPACING.				
SB-1	21'-1¼"	12 X 24	2#5	2#5	_	-	#3 @10"}				
SB-2	21'-1¼"	12 X 24	2#5	2#5	-	-	#3 @10" }				
SB-3	21'-1¼"	12 X 24	2#5	2#5	-	_	#3 @10"				
SB-4	21'-1¼"	12 X 24	2#5	2#5	_	-	#3 @10"	Δ			

BEAM SCHEDULE NOTES:

- 1. TOP STEEL CONTINUOUS UNLESS OTHERWISE NOTED.
- TOP STEEL IN CONTINUOUS BEAMS SHALL TAKE PRECEDENT OVER INTERSECTING SINGLE—SPAN BEAMS AT INTERSECTIONS.
- 3. TOP OF BEAM ELEVATIONS GIVEN IN N.A.V.D.



STORAGE ROOF FRAMING PLAN

ROOF FRAMING PLAN NOTES:

- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWNOS. SEE ARCHITECTURAL AND MEP FOR ADDITIONAL INFORMATION.
- ELEVATIONS SHOWN ARE RELATIVE TO THE GROUND FLOOR SLAB SURFACE SET AT 0'-0".
- 3. ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES AS SHOWN. PROVIDE "962" APA RATED EXTERIOR PLYWOOD SHEATHING. PROVIDE BLOCKING AT ALL PANE EDGES. ATTACH SHEATHING W/ 10d NAILS AT 6" O.C. AT SUPPORTED EDGES AND 12" O.C. AT INTERIOR SUPPORTS. PROVIDE 4" O.C. SPACING @ EDGES AND INTERIOR SUPPORTS IN ZONE 3.
- 4. SEE BEAM SCHEDULE THIS SHEET
- 5. TYPICAL TRUSS TIE DOWN TO BE HETAL 16. PROVIDE HETAL 16 TRUSS UPLIFT CONNECTION UNLESS OTHERWISE INDICATED ON PLAN.

COLUMN SYMBOLS STEEL SYMBOLS - INDICATES COLUMN BELOW BAR SIZE_____ - INDICATES COLUMN THRU BAR SPACING-BAR PLACEMENT -- INDICATES COLUMN ABOVE

STORAGE BUILDIN FOUNDATION AND FRA PLANS

NORTH BLDG C COQUINA STORAGE B

REVISIONS

MC

PROJECT NO: 2013-31 6 DATE: 04/02/15 DRAWN BY: ARW CHK'D BY: RDW

1 Polos 9/29/2015 ENGINEER OF RECORD RICHARD D. WILSON FL P.E. # 37784

SHEET

S2.01

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SECTIONS

MC COQUINA NORTH STORAGE BLDG

REVISIONS

⚠ 10/01/2015 CLIENT REQUESTED REVISIONS

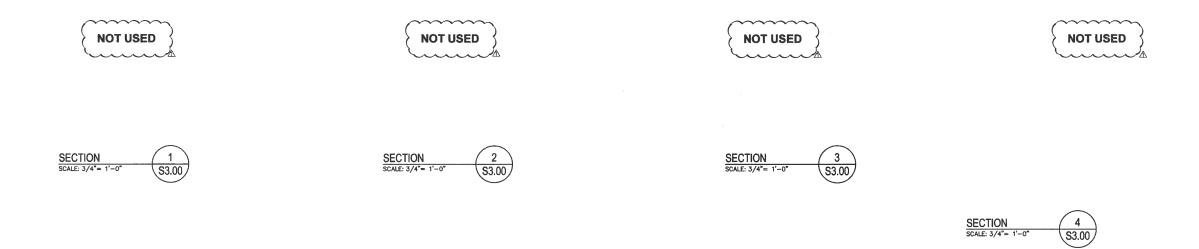
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DRAWN BY: ARW
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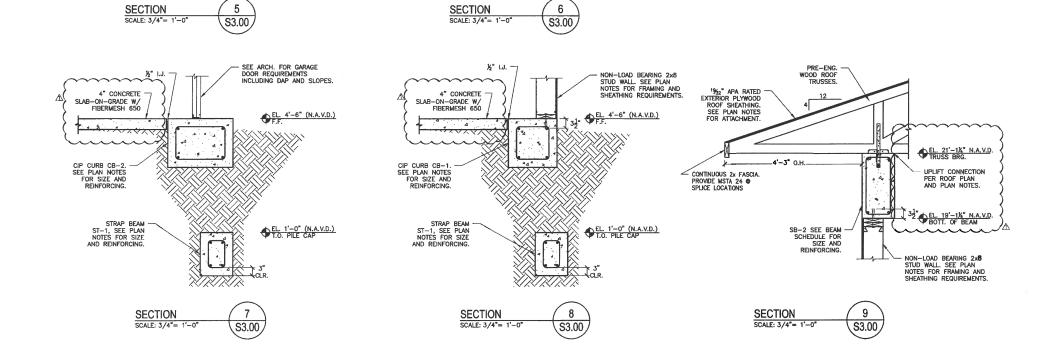
9/29/2015 ENGINEER OF RECORD RICHARD D. WILSON FL P.E. # 37784

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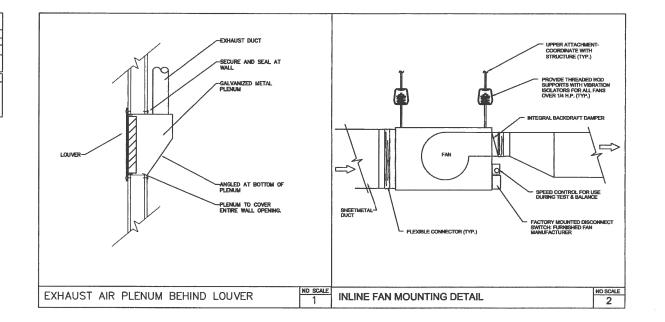
	EXHAUST FAN SCHEDULE														
DIR	DIRECT DRIVE CENTRIFUGAL INLINE FAN MARIC EF-1														
GREENHECK VOLUME ESP POWER WEIGHT MOTOR INFORMATION															
QTY	MODEL	(CFM)	(in wg)	PRPM (hp)	(in wg) FFG-M	(hp)	(hp)	-HO-M (hp)	(Lb.)	SIZE (hp)	V/C/P	ENCL:	MOTOR RPM	WINDINGS	FLA
1	SQ-95-D	720	0.25	1,550	0.1	44	0.125	115/80/1	TA	1550	1	NA			
	OPTIONS AND ACCERSORIES														

SWITCH, NEMA-1, TOGGLE, JUNCTION BOX MOUNTED & WIRED NO MOTOR COVER SOLID STATE SPEED CONTROL, 5 AMP (PN 385031) SHIPPED LOOSE ENGAUST FAN TO RUN 247

	LOUVER SCHEDULE										
MARK	MANUFACTURER	MODEL	SIZE (WxH)	CFM	FREE AREA	FACE VELOCITY					
LV-1	GREENHECK	EHH-501X	22x22	720	1.1	653					

LOUVER NOTES:

PAINT TO MATCH WALL COLOR.
 LOUVER TO BE PROVIDED WITH UP TO DATE FLORIDA PRODUCT APPROVAL NUMBER AND NOA.





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> MECHANICAL STORAGE FLOOR PLAN

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MC COQUINA RESTROOMS
NORTH

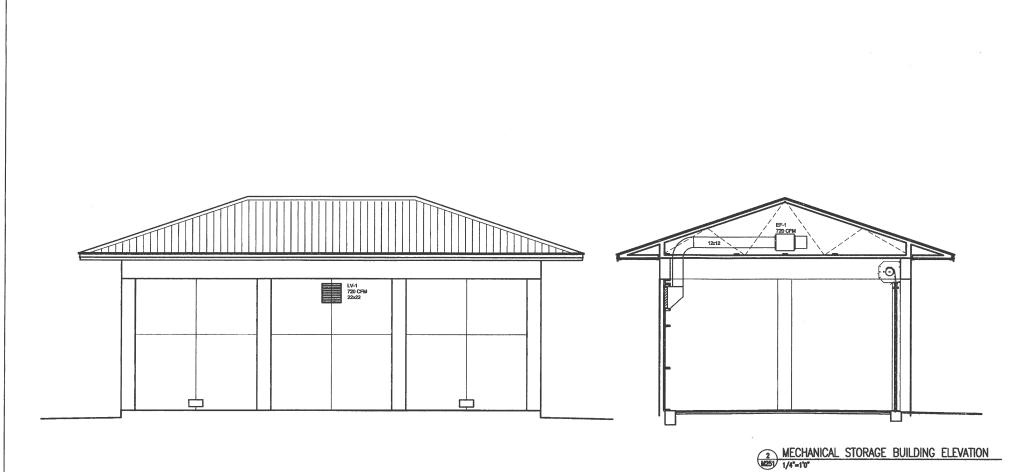
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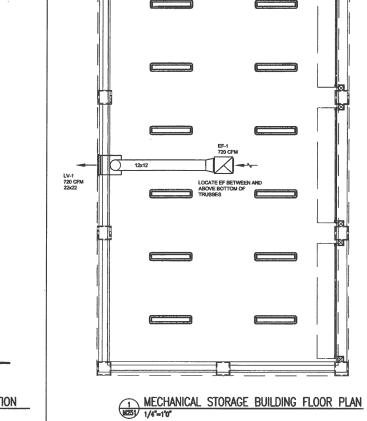
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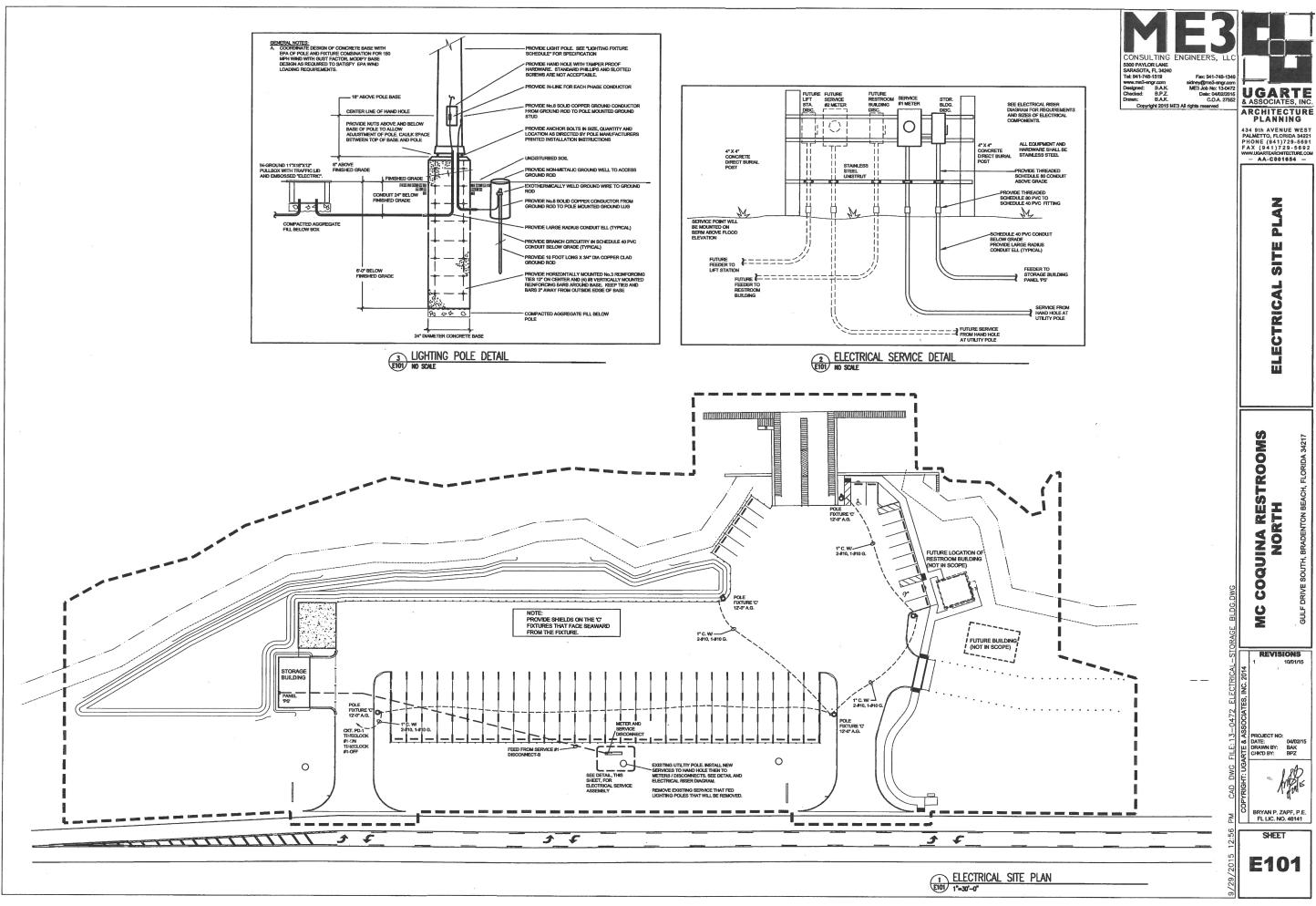
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KAY C. CLEM, P.E. FL LIC. NO. 53270 SHEET

M201







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ARCHITECTURE PLANNING

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ELECTRICAL FLOOR PLANS

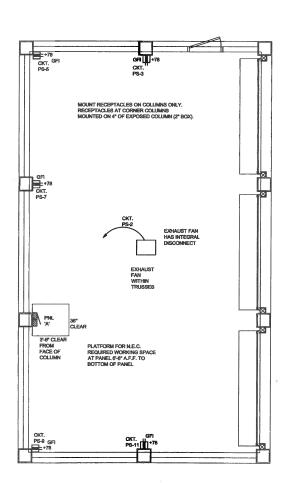
COQUINA RESTROOMS NORTH MC

REVISIONS 10/01/15

O PROJECT NO:
OF DATE:
OF DATE

BRYAN P. ZAPF, P.E. FL LIC. NO. 48141

SHEET E201



GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL COMPONENTS AT NON-WATERPROOFED STRUCTURES MUST BE MOUNTED ABOVE THE FEMA PLOD ELEVATION OF 6-6- A.F. (EXCEPT INTERIOR OF WATERPROOFED RESTROOMS BULDIONS). VERDY EVACET HEIGHT AT EACH STRUCTURE.
- PROVIDE MACHINE ENGRAVED DEVICE COVERPLATES ON ALL DEVICES WITH THE PANEL AND CIRCUIT NUMBER PRIOR TO SUBSTANTIAL COMPLETION. INCLUDE DETAILS IN SUBMITTALS. COVERPLATES SHALL NOT BE LABELED IN THE FIELD.
- PROVIDE ALL POWER AND SPECIAL COMPONENTS/CIRCUITS SHOWN. ALL CONDUIT MUST BE CONCEALED IN THE WALLS (EXCEPT DEVICES MOUNTED ON PUORED COLUMNS IN STORAGE BUILDING). IN TRUSSES OR ABOVE THE CEILINGS.
- 4. PROVIDE ALL OCCUPANCY SENSORS AND TIMER SWITCHES SHOWN. PROVIDE SUBMITTALS TO ENGINEER IN AUTOCAD FORMAT TO INCLUDE ALL WIRING DI DEVICE QUANTITIES AND COVERAGE AREAS. INCLUDE PROGRAMMING COSTS IN BID.
- 5. DO NOT SCALE FROM THESE DRAWINGS
- 6. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- THE DIVISION 26 CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
- CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE, DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC AND FOR COORDINATION WITH OTHER DISCIPLINES.
- . PROVIDE 2812AWG + 1812AWG EQUIPMENT GROUND COPPER IN 34° CONDUIT FOR ALL 120V BRANCH CRICUITS LLO.N., PROVIDE \$10AWG COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CRICUITS LONGER THAN 75 FEET.

ELECTRICAL SYMBOL LIST

WIRING DEVICES

NOTE: ALL DEVICES SHALL BE WHITE IN COLOR. RECEPTACLES SHALL BE VERTICALLY MOUNTED WITH THE RECOUND PIRH HOLE LOCATED AT THE "TWELVE OCLOOK" (TOP OF DEVICE) POSITION LUAD.

NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO WIRING DEVICES WHERE HOLICATED.

"If" INDICATES HORIZONTALLY MOUNTED WIRING DEVICE.
"IG" INDICATES ISOLATED GROUND TYPE WIRING DEVICE.

WP INDICATES WEATHERPROOF FULLY GASKETED CAST ALUMINUM BACKBOX, IMC RACEWAY WITH THREADED FITTINGS AND LL WET LABELED "IN-USE" COVER. PROVIDE INTERMATIC DIS-CAST WP1010MC SERIES WEATHERPROOF COVER.

GFCI TYPE DUPLEX RECEPTACLE, 20 AMP, HEAVY DUTY, RECESS MOUNT ABOVE SINK, COUNTER, CASEWORK, ETC. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND/OR EXISTING CONDITIONS PRIOR TO ROUGH-IN

OCCUPANCY SENSOR SWITCHES

- JPANCY SENSOR SWITCHES

 DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH LILTRASONIC

 AND PASSIVE INFPARED DETECTION. BUTTON FOR MANIAL TOY AND

 MANIAL TOPE, HIGH HARIBOTY, TOW JUNE YOUTAGE OFFERTON, DEVICE

 WITH SMOOTH PLASTIC DECORA FACEFLATE. MOUNT 48"AFF TO

 CENTER OF BACIGON, OR AS NOTED.

 SENSOR SWITCH MODEL # WSX-PDT-WH-LT
- DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
 ULTRASONIC AND PASSIVE INFRANED DETECTION, 380 DEGREE
 PATTERN, SELECTABLE OPERATION, HIGH HUMIDITY
 120Y LINE VOLTAGE OPERATION. WHITE DEVICE, WIRE IN PARALLEL IF TWO DEVICES ARE IN ONE ROOM. SENSOR SWITCH MODEL # CMR-PDT9-LT

PANELBOARD, REFER TO THE "PANELBOARD SCHEDULE"

JUNCTION BOX. COORDINATE EXACT LOCATION AND MOUNTING WITH EQUIPMENT TO BE INSTALLED.

LIGHTING STORAGE BUILDING PLAN

ELECTRICAL STORAGE BUILDING PLAN

1/4"=1"0"



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- AA-C001654 -

ETAILS

ELECTRICAL

COQUINA RESTROOMS NORTH

MC

REVISIONS

PROJECT NO:

DATE: 04/02/15

DRAWN BY: BAK
CHK'D BY: BPZ

10/01/1

BRYAN P. ZAPF, P.E. FL LIC. NO. 46141 SHEET

E501



NOTES: 1. ALL CONDUCTORS SHALL BE COPPER.

2. ALL CONDUIT SHALL HAVE GROUNDING CONDUCTOR INSTALLED.

5. SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.

PANELBOARD DESIGNATION: PS

EST. FAULT CURRENT			ELECTRICAL SERVICE CALCULATION CONNECTED DEMAN					
CONDUCTOR LENGTH CONDUCTOR *C*	275 3.860		RECEPTACLE LOAD	900	900			
ESTIMATED TRANSFORMER SCA	TIMATED TRANSFORMER SCA 10,417		LIGHTING >3 HR. LOAD	985	1,232			
275 X 10,417			OTHER LOADS	147	147			
3,860 X 240 = 3.0923			TOTAL	2,032	2,279			
1 1+3.0923 10,417 X .2444 = 2,545	.2444		9.5A DEMAND 100A SERVICE @ 240V, 1-PHASE PROVIDED NOTE: THE FUTURE RESTROOM BUILDING WILL BE FED FROM					
2,545 SHORT CIRCUIT AMP8 ESTIMATED AT SERVICE ENTRANCE			THE SAME SERVICE. ESTIMATED DEMAND FOR THE RESTROOM BUILDING IS 18 AMPS AT 240V, 1-PHASE.					
		- '						

CONDUIT AND WIRE SCHEDULE

CONDUIT AND WIRE SCHEDULE

CB POLE WIRE SIZE CONDUIT PHASE CB POLE WIRE SIZE CONDUIT PHASE
20A 1 2-912, 1-912 G. 34" 192" 50A 2 2-98, 1-910 G. 1" 192" 50A 2 2-98, 1-910 G. 1" 192" 50A 2 2-915, 1-910 G. 1" 192" 50A 2 2-915, 1-910 G. 1" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 12 2-96, 1-910 G. 1" 192" 50A 12 2-910, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 12 2-910, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 12 2-910, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 12 2-910, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 3 3-96, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 3 3-96, 1-910 G. 34" 192" 50A 3 3-96, 1-910 G. 1" 192" 50A 3 3-96, 1-910

2. ALL COMBOTT STREET INVESTIGATIONS CONTROLLED STREET.

3. CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.

4. SIZING OF CONDUITORS MUST BE ALTERED FOR DEFATING PER NELC. FOR YOLTAGE DROP CONSIDERATIONS.

120V CRICATIFS GREATER THANTS FEET IN LEAST HIS HALL USE ONE WIRE SIZE LARGER.

8. IF CONDUIT AND CONDUCTOR SIZES ARE SHOWN ON THE PLAN, THIS SCHEDULE DOES NOT APPLY.

	LIGHTING FIXTURE SCHEDULE										
				LAMP INFORMATION		TOTAL INPUT	SEE SCHEDULE				
FIXTURE TYPE	FIXTURE DESCRIPTION	MANUFACTURER/ CATALOG NUMBER	VOLTS	QTY	TYPE	WATTS	NOTE				
В	4' LED VANDAL RESISTANT, PRISMATIC LENS, WHITE BODY, TAMPER RESISTANT,	LUMINAIRE VPF84-56WHP-4000-120-CP-WHT -TX/SD	120	LEO	4,802 LUMEN 4000K	40W	2				
С	LED TURTLE SAFE POLE MOUNTED AREA, BRONZE LED COLOR MIN / MAX WAVELENGTH: 585nm / 595nm, FLAT GLASS LENS	STERNBERG OMEGA 1527 R AND F SERIES, AMBER LED FIXTURE HAS FWC APPROVAL #2008-002	120	LED	4700LUMEN WAYELENGTH: 585NM / 595NM	101W	1, 3, 6				
XEL	EXIT SIGN / EGRESS LIGHTING COMBO UNIT WITH BATTERY BACKUP. WHITE BODY WITH RED LETTERS, SIDE MOUNT EGRESS HEADS	LITHONIA LHQM-SW3R	UNIV @ 120	LED/ 2	LED/ 6V, 5.4W	4W	4,5				

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- FIXTURES PROPOSED AS EQUIVALENT TO SPECIFIED FIXTURES SHALL BE JUDGED ON EFFICIENCY, PERFORMANCE AND CONSTRUCTION, NOT FIXTURE
 CONSTRUCTION ALONE. THE ENGINEER OF RECORD RESERVES THE RIGHT TO DETERMINE FIXTURE EQUIVALENTS AND THE DECISION OF THE ENGINEER IS FINAL.
 THE 'C' FIXTURE SPECIFIED MATCHES OTHER EQISTING EXTERIOR FIXTURES MEAR THE PROJECT LOCATION AND SUBSTITUTIONS WILL BE JUDGED TO CLOSELY MATCH
 THE EXISTING FIXTURES OR BE REJECTED.
- LIGHTING FIXTURE SUBMITTAL CUT SHEETS SHALL INCLIDE INFORMATION ON HOW THE FIXTURE CATALOG NUMBER IS COMPILED AND SHALL INCLIDE CUT SHEETS OF ALL OPTIONAL COMPONENTS, SUCH AS FRAME-IN-KITS, BALLAST I DRIVER INFORMATION, INPUT WATTS, BALLAST FACTOR, SHIELD INFORMATION, LAMPS, ETC.
- LIGHTING FIXTURES SHALL BE SUPPORTED PER NEC ARTICLE 410.
- LIGHTING SYSTEMS, SESCO (TAMPA OFFICE), TAMPA BAY LIGHTING, AND WESTERN FLORIDA LIGHTING. THE ENGINEER RESERVES THE RIGHT TO DETERMINE FIXTURE EQUIVALENTS BASED ON THE CATALOG SERIES, APPEARANCE AND THE ENGINEERS JUDGMENT AND MAY REJECT FORTURES ON THESE GROUNDS.

- . MOUNTED AT CEILING.
- 3. FIXTURE SHALL HAVE SHIELD SO THAT NO DIRECT LIGHT IS VISIBLE WHEN FIXTURE IS OBSERVED FROM SEAWARD. PROVIDE SHIELD ON SIDES OF FIXTURE THAT FACE THE WATER.
- 5. CONNECT EMERGENCY EGRESS FIXTURE TO THE LINE SIDE OF THE LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING.
- PROVIDE POLE AND TENON / ARM FOR MOUNTING FIXTURE TO POLE. COLOR SHALL MATCH FIXTURE. BOTTOM OF FIXTURE MOUNTED 12-0" ABOVE GRADE. SEE DETAIL FOR MOUNTING OF POLE.

SURG-ACE MICE	- 1	FEED THRU	11100	IN IN			I	NTERRUPT	NG KATING:	10,000 AIC
FLUSH MLO		PEED INKO	LUGG	ENCLOSURE: NEMA 1				NEMA 1		
SERVES	CB SIZE	LOAD VA	CKT#	Γ		CKT#	LOAD VA	CB SIZE	8ERVE8	
LTG-INTERIOR	20	720	_1	П	П	2	147	20	EXHAUST FAN	
RECEPTACLES	20	180	3	П	П	4	266	20	LTG-PARKING	
RECEPTACLES	20	180	5	П		6				
RECEPTACLES	20	180	7	П	\Box	8				
RECEPTACLES	20	180	9	П	П	10				
RECEPTACLES	20	180	11	П	\neg	12				
			13	П	П	14				
			15	П	П	16				
SURGE PROTECTION	30/2		17	П	П	18				
			19	П	\neg	20				
			21	П	T	22				
_			23	П	П	24				
			25	П	П	26				
			27	П	\neg	28				
			29	П	\neg	30				
				A	В	\top			DEMAN	D: 1.8 KW

PROVIDE PARALLEL SURGE

VOLTAGE: 240/120V 1PH-3W MAINS RATING: 100 AMPS MAIN C8 TRIP RATING: 100 AMPS

PROVIDE UTILITY COMPLY	AL RISER NOTES		FUTURE LIFT STATION METER	FUTURE RESTROOM BUILDING SERVICE DISCONNECT	1 1/4" C. W/ 2-#3, 1-#3 N., 1-#6 G. METER SERVICE #1	SERVICE #1 DISCONNECT	PROTECTION DEV PROTECTION POC INSTALL W/ LEADS POSSIBLE TO CIR EXTERIOR LOCAT WEATHER TIGHT.	C100 SERIES. S AS SHORT AS CUIT BREAKER. TIONS SHALL BE
MODIFY LOCATION AS REQUIREMENTS.	SITE PLAN FOR PROPOSED LOCATION. SED TO COMPLY WITH UTILITY COMPANY E (MINIMUM) SURGE PROTECTION DEVICE	FUTURE	[6]	Γ ₁	100A 100A 100A	F 20V	PANIEL 100A M	ICB
(SPO) CLOSE IMPPLED TO EX- POCTION SERIES DEVICES. PP ELECTRICAL SERVICE SIENTE COPPER CONDUCTORS IN 34 EQUIPMENT. DO NOT EXTERN LAD LENGTHS AS SHORT AS QUANTITY OF REQUIRED CO. INSTALLATION INSTRUCTIONS 3. PROVIDE BRIGARY ED, PLA.	IRMENT: PROVIDE PO PROTECTION OVIDE CONFIGURATION TO MATCH THE D. PROVIDE NO.8 SOLID INSULATED CONDUTT BETWEEN SPD" AND MANUFACTURERS WIRE LEADS. KEEP POSSIBLE. BROAD ALL LEADS TOGETHER 15" CENTERS (MAX.). COORDINATE DUCTORS WITH MANUFACTURERS	SERVICE			2-4/3, 1-4/3 N., NEM S/S	34° C. W/ #6 G.	240120 10, 3-W NEMA 1	34° C. W/#6 G.
SWITCHES, EQUIPMENT, ETC. NAME AS INDICATED ON THIS OWNERS STANDARD NAMING AUTHORITY HAVING JURISDIC 4. BOND GROUNDING TO BUI	NAMEPLATE SHALL STATE EQUIPMENT DRAWING, AS REQUIRED TO COMPLY WITH CONVENTION OR AS REQUIRED BY THE	FUTURE FEED TO LIFT STATION	I TO	TURE FEED 1 1/2" RESTROOM 2-4/3, ILDING 1	C. W/ 1-#3 N.,	DRIVEN GROUND ROD VOLTAGE DROP OF FEED IS 0.43%	1 1/2" C. W/ 2-4/3, 1-4/3 N., 1-4/6 G.	34° X 10°-0° CU CLAD DRIVEN GROUND ROD
	NTS MOUNTED AT / IN STRUCTURES SHALL MA FLOOD ELEVATION. VERRY HEIGHT OF RE EQUIPMENT IS INSTALLED.		Ĺ	UTILITY POLE			STOR	AGE BUILDING
					ELECTRICAL SERVICE PO SERVICE POINT WILL BE MOUNT ON BERM ABOVE FLOOD ELEVA	ED ELECTRICAL F	RISER DIAGRAM	DSCALE

SCOPE OF WORK AND GENERAL CONDITIONS:
THE BOOKE OF WORK GREGORD INSIDE CONSISTS OF PROVIDING OPENIND AS FURNISH AND INSTALL) ALL LADOR, MATERIALS, EQUIPMENT AND SERVICE
REQUIRED TO COMPLETE THE ELECTRICAL AND DELICITATION OF MICRORITION OF THE DRAWNINGS, AS SPECIFIED HEREN AND SUBJECT TO THE TERMS AND

GROUNDING
RACEWAY FOR POWER DISTRIBUTION WIRING
CONDUCTORS FOR POWER DISTRIBUTION

ACEWAY FOR COMMUNICATIONS WIRING (VOICE, DATA, TELEVISION)
ONNECTION OF MOTORS, CONTROL DEVICES AND ELECTRICAL EQUIPMENT FURNISHED BY OTHERS

ITEMS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS, AND/OR REASONABLY INTERPRETED FROM THE DRAWINGS THAT ARE NECESSARY TO COMPLETE THE ELECTRICAL WORK SHALL BE PROVIDED BY THIS DIVISION, WHETHER ITEM IS SPECIFICALLY SHOWN OR NOT.

GENERAL:

GENERAL:
CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH THE PROJECT SITE (e.g., EXSTING CONDITIONS) AND THE ENTIRE CONSTRUCTION DOCUMENTS
PACKAGE (e.g., ARCHITECTIRAL, STRUCTURAL, CMUI, INSCHANCAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWNINGS AND SPECIFICATIONS) BEFORE BID
SUBBISSION. WORK OF THE ELECTRICAL CONTRACTOR MUST BE COOKNOMITED WITH THE WORK OF ALL TREACT OF THE SITE OF THE STRUCTURE.

CONTRACTOR SHALL REVIEW THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE AND SHALL SEARCH FOR EQUIPMENT, LIGHTING FIXTURES, ETC THAT REQUIRE ELECTRICAL SERVICE THAT ARE NOT BHOWN ON THE ELECTRICAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PAIGNIERE PRIOR TO BID IF EQUIPMENT, LIGHTING RITURES, ETC REQUIRING ELECTRICAL SERVICE APPEAR ON THE DRAWINGS OF OTHER TRADES THAT DO NOT APPEAR ON THE ELECTRICAL DRAWINGS.

INTENT:
THE NITER OF THE DRAWINGS AND SPECIFICATIONS IS TO DESCRIBE THAY COMPLETE ELECTRICAL AND SPECIAL SYSTEMS ARE REQUIRED, HOWEVER, THE WORK SHALL BE COMPLETE EVEN THOUGH TERMS MAY NOT BE SPECIFICALLY CALLED FOR OR SHOWN. INSTALLATIONS SHALL MEET ALL GOVERNING CODES, SHALL BE COMPLETE EVEN THOUGH TERMS INVESTIGATED AND ALL ADEDICES HAVING JURISDICTION.

WORK NOT COVERED IN THIS SECTION:

RECESSES, CHUSES, AND OTHER PROVISIONE TO BE MADE IN THE STRUCTURE AS REQUIRED TO ACCOMMODATE ELECTRICAL ITEMS, BUCH AS CONDUIT,

RECESSES, CHUSES, ETC, SHALL BE PROVIDED BY THE TRADES CONCERNED. THE ELECTRICAL SHALL, HOWEVER, NOTIFY ALL SUCH TRADES OF HIS EXACT

REQUIREMENTS ANEADO THATE AND SHALL HAY THE COSTS OF ANY CUTTING OR PATCHING CAUSED BY FAILURE TO DO SO. ALL SUCH REMEDIAL WORK SHALL

BE DONE ONLY BY MECHANICS OF THE TRADES MOUNTED.

PERMITS TAXES FEES:

PECHMI IS, I AXES, HEES: LOVESMENTA, PERMITS, PAY ALL BLAES TAKES AND OTHER ASSOCIATED FESS RELIGIOUS COSTS FOR UTILITY CONTINUOUS BUILDING CO

CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ALL LABOR, MATERIALS, SERVICES, APPARATUS, OR DRAWINGS NECESSARY TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SI

ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE FOLLOWING: NATIONAL ELECTRIC CODE 2008
2010 FLORIDA BULDING CODE WITH ANY AMENDMENTS NATIONAL BUREAU OF FIRE LINDERWRITERS NATIONAL BUREAU OF FIRE LINDERWRITERS FREGULATIONS OF THE SERVING LITLITY COMPANES

ALL MATERIAL AND EQUIPMENT PROVIDED FOR THE ELECTRICAL WORK SHALL BEAR THE APPROVAL LABEL, OR SHALL BE LISTED, BY UNDERWRITERS' LABORATORIES, INC.

MEASUREMENTS:

REMENTS:
THE CONTRACTOR DISCOVER MY DISCREMANT RETWEEN ACTUAL MEASUREMENTS AND THOSE RESCATED ON THE FRAUMOR, WHICH PRESENTS
THE CONTRACTOR DISCOVER MY DISCREMANT RETWEEN AND SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT, BIGINEER THROIS THE GENERAL
THOSE OF THE WASHINGTON THE RESPONSION OF THE WASHINGTON OF THE WASH

PRIOR TO BOUGH AN OF EQUIPMENT THE CHMIER, ARCHITECT AND ENGINEER RESERVE THE RIGHT TO RELOCATE ANY PANELBOARD, DISCONNECT, STATTER, LIGHTING DITLINE, WIRING DEVICE, COMMISSION OUTLET, ETC THREE (5) FEET IN ANY DIRECTION WITHOUT ANY ADDITIONAL CHARGE, FEE, OR CHANGE ORDER.

DIFAVINITISE:
DIFAVINISHED LAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF THE ELECTRICAL AND SPECIAL SYSTEMS WORK INCLIDED IN THE CONTRACT. THE
ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (DRAWINGS AND SPECIFICATIONS) SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES, DEVICES AND
EQUIPMENT. WHERE TIBLISH ARE NOT LOCATED BY THE DRAWINGS OR SPECIFICATIONS OF OTHER CONSULTANTS THEN THE ITEMS SHALL BE LOCATED PER THE
ENGINEERING DRAWINGS, HOWEVER, THE DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR SHALL FOLLOW THE ELECTRICAL DRAWINGS IN LAYING OUT WORK AND SHALL COORDINATE WITH THE DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE RISTALLED. MAINTAIN MAXIMUM HEADROOM AND SPACE AT ALL LOCATIONS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR RADEQUATE, THE ARCHITECTRENGINEER SHALL BE NOTHRED BEFORE PROCEEDING WITH INSTALLATION. ALL REQUESTS FOR INFORMATION (RPI SHI INCIDED A PROFESSED SOLUTION.)

IF DIRECTED BY THE ARCHITECT/ ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LOCATIONS OF ELECTRICAL WORK AS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND FOR PROPER INSTALLATION OF THE WORK.

COOPERATION WITH OTHER TRADES:
REFER TO THE "NATIONAL ELECTRICAL CODE REQUIRED WORKING SPACE NOTES" INCLUDED WITH THESES CONSTRUCTION DOCUMENTS FOR ADDITIONAL
COORDINATION REQUIREDING.

CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH IN WRITING TO THE ARCHITECTIENGINEER ANY INFORMATION NECESSARY TO PERMIT THE WORK OF OTHER TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.

WHERE ELECTRICAL WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH, WORK OF OTHER TRADES THE CONTRACTORS SHALL ASSIST EACH OTHER IN WORKING OUT A SATISFACTORY SPACE FOR EACH CONTRACTORS WORK. IF DIRECTED BY THE AGAPTIECTREWINEER, THE CONTRACTOR SHALL PREPARE COMPOSITE WORKING DAMINES AND SECTIONS AT SUITABLE SCALE, NOT LESS THAN 14" = 1-0", CLEARLY SHOWN HOW WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, OR CAUSES ANY INTERFERENCE. WITH WORK OF OTHER TRADES, THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, OR CAUSES ANY INTERFERENCE. WITH WORK OF OTHER TRADES, THE CONTRACTOR INSTALL MAY THE RECESSANY CHANGES IN THE LECTRICALL WORK TO CORRECT THE

CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, AND ASSEMBLY DETAILS FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

SCAFFOLDING, RIGGING, HOISTING:
CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, RIGGING AND HOISTING NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ALL ELECTRICAL
ECOMPRIENT: REMOVE SMALE FROM PREMISES WHEN NO LONGER REQUIRED.

ECCAVATING AND BACKFILLING:
CONTRACTOR SHALL PROVIDE ALL TRENCH AND PIT EXCAVATION AND BACKFILLING REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATIONS, BOTH
MISSIE AND DUTING OF THE BILDINGN, INCLUDING REPAIRING OF FRISHED SURFACES, ALL REQUIRED SHORING, BRACING, PUMPING, AND ALL PROTECTION
FOR SAFETY OF PERSONS AND PROPERTY. LOCAL OR STATE SAFETY CODES SHALL BE FOLLOWED. IN ADDITION, THE CONTRACTOR SHALL DESCRIPTION FOR SHAPE SHALL SHORING THE UNITIES BY PITE UTILITIES BY RETERM AND LEVENING THE BUILDING. IS SUCH ELEVATIONS OF SECURE EXCAVATIONS AND THE FOOTING LEVELS, THE
ARCHITECT/SHORINER SHALL BE NOTIFIED OF SUCH CONDITIONS. CONTRACTOR SHALL MAKE EXCAVATIONS AT THE
MINIMAL REQUIRED DEPTHS IN ODDER NOT TO UNDER CONTRACTOR SHALL MAKE EXCAVATIONS AT THE
MINIMAL REQUIRED DEPTHS IN ODDER NOT TO WORSE ONLY.

ACT. FILLING, BACKFILLING AND COMPACTION SHALL BE AS SPECIFIED IN OTHER AREAS OF THE CONTRACTO DOCUMENTS AND SPECIFICATIONS.

MATERIAL AND WORKSMASSHIP: ALL MATERIALS AND APPARATUR REQUIRED FOR ELECTRICAL WORK, EXCEPT AS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW, OF RIST CLASS QUALITY, AND SHALL BE FUNNISHED, DELAYERD, ERECTED, CONNECTED AND FRINKED IN EVERY DETAIL AND SHALL BE SO SELECTED AND ARPANAED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST CLASS STANDARD ARTICLE, AS APPROVED BY THE BINGINGER, SHALL BE PROVIDED.

CONTRACTOR SHALL PROCURE THE SERVICES OF AN EXPERIENCED SUPERNITENDENT, WHO SHALL BE CONSTANTLY IN CHARGE OF THE INSTALLATION OF THE WORK, TOGETHER WITH ALL SKILLEN WORK PERSONNEL, FITTERS, METAL WORKERS, WELDERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSPER REFECT, CONNECT, ADJUST, START, OPERATE AND TEST EACH SYSTEM.

ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. THIS INCLUDES THE PERFORMANCE OF ALL TESTS RECOMMENDED BY THE MANUFACTURER.

CUITING AND PATCHING.
CONTRACTOR SHALL PROVIDE ALL CUITING AND PATCHING NECESSARY TO INSTALL ELECTRICAL WORK. PATCHING SHALL MATCH ADJACENT SURFACES AND
SHALL MEET THE APPROVAL OF THE ARCHITECT AND OWNER.

NO STRUCTURAL MEMBERS SHALL BE CUT OR MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. ANY MODIFICATION SHALL BE DONE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

SLEEVES AND PLATES:
COMMANDER AND LOCATE ALL SLEEVES REQUIRED FOR ELECTRICAL WORK SEFORE THE FLOORS, WALLS AND CELLINGS ARE CONSTRUCTED.
COMMANDER SHALL PROVIDE AND LOCATE ALL SLEEVES RECOURSED FOR RECORD FOR THE FLOORS, WALLS AND CELLINGS ARE CONSTRUCTED.
COMMANDER SHALL PROVIDE ALL DOES LING REQUIRED FOR THE INSTALL ANDON OF HER WARGES. SLEEVES SHALL BE PROVIDED FOR ALL CONDUIT PASSING THROUGH CONCRETE FLOOR SLABS ABOVE GRADE AND CONCRETE, MASONRY, TILE AND GYPSUM WALL CONSTRUCTION.

WHERE CONDUIT SLEEVES ARE PLACED IN EXTERIOR WALLS BELOW GRADE, THE SPACE BETWEEN THE CONDUIT AND THE SLEEVES SHALL BE SEALED

WHERE CONDUIT MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, PROVIDE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF THE CONDUIT. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS. PROVIDE ACTUAL HE CONDUIT. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH O SHORTHS TO SUIT THE FOLLOWING.

TERMINATE SLEEMES FLUSH WITH WALLS, PARTITIONS AND CELINS.

I REVAIL THE CONDUIT IS CONCEALED, AS IN CHASSES, TERMINATE SLEEVES IT ABOVE FLOOR.

IN AREAS WHERE CONDUIT IS DOYGED, EXTEND SLEEVES 7 ABOVE FINISHED FLOOR.

SLEEVES SHALL BE CONSTRUCTED OF SCHEDULE AS STEEL PRE.

FASTEN SLEEVES SECURELY IN FLOORS AND WALLS SO THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN OTHER CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER OR OTHER MATERIALS FROM BEING FORCED INTO THE SPACE BETWEEN PIPE AND CHEER SUBJECT CONCRETED TO THE STATE OF THE STATE O

PENETRATIONS: ALL PENETRATIONS THROUGH FIRE RATED PLOORS, WALLS AND CEILINGS SHALL BE PROVIDED WITH A U.L. APPROVED FIRESTOP RATED PENETRATION SYSTEM IN ACCIONANCE WITH HEPA 101-2009, LIFE SAPETY CODE. PROVIDE WATERTIGHT ASSEMBLIES, MATERIALS, SEALANTS, ETC AROUND RACEWAY WHERE RACEWAY PASSES THROUGH INTERIOR/ EXTERIOR OF BUILDING AT

SUBSTITUTION OF SPECIFIED EQUIPMENT:
MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURERS NAME OR CATALOG MANBER SHALL BE PROVIDED AS SPECIFIED.

SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL TEN (10) WORKING DAYS PRIOR TO 8ID DATE FROM THE ENGINEER WA THE ARCHITECT. APPROVALS OF POLIVALENT MATERIALS OR PRODUCTS WILL BE MADE AVAILABLE TO ALL INJOHN BIDDERS AND ISSUED AS AN ADDIENDUM (PRIOR TO BID) TO THE CONTRACT DOCIMENTS IS INSUSTRITUTED MATERIALS OR PRODUCTS ARE APPROVED BY ARCHITECT INSURINGER. ANY CONTRACTOR PROPOSING AN 'EQUIVALENT' MATERIAL OR PRODUCT MUST SUBMIT, WITH THE REQUEST, COMPLETE CATALOG INFORMATION TO PERMIT
EVALUATION OF THE PRODUCT, IN THE CASE OF LIGHTING FATURES, AN INDEPENDENT TESTING LASORATORY TEST REPORT (NOT THE MANUFACTURERS)
STATING PROTURE EFFICIENCY AND PERFORMANCE SHALL ACCOMPANT THE REQUEST.

CONTRACTOR GYALL BE REPONDEDLE TO PROVIDE CORRECTIONS TO ALL BITUATIONS CREATED BY THE BUSINITIATION OF MATERIALS OR PRODUCTS. THE ACCEPTIANCE OF SUBSTITUTES MATERIALS OR REPONDED. SERVICE PROOF TO BIOLD BY THE PRESENTED, DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE CORRECTIONS, AT HIS/HER EXPENSE, FOR ALL DISCREPANCIES AND CONFLICTS CREATED BY THE SUBSTITUTION OF IMPERIALS OR PRODUCTS.

SHOP DRAWINGS:

S. Subbit for review and approval shop drawings of all materials or products required to complete the project and in Jots Shall be delivered to the Jos Site or installed until the contractor has engineer approved shop drawings.

SHOP DRAWINGS FOR ELECTRICAL MATERIALS AND PRODUCTS SHALL BE SUBMITTED AS ONE COMPLETE PACKAGE, AT ONE TIME AND NOT INDIVIDUAL SUBMITTALS. CONTRACTOR SHALL FUNNES THE MANISER OF COPIES REQUIRED BY THE GENERAL AND SPECIAL CONDITIONS OF THE CONTRACT, BUT IN NO CASE LESS THAN 8(8) IDENTIFICAL COPIES.

SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE ELECTRICAL AND GENERAL CONTRACTORS FOR COMPLIANCE WITH THE SPECIFIED MATERIALS AND PRODUCTS PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER.

CUT SHEETS, DRAWINGS, SPECIFICATIONS, ETC SUBMITTED FOR REVIEW SHALL BE PROPERLY LABELED AND SHALL CLEARLY IDENTIFY THE SPECIFIC ITEMS). FOR WHICH THE CONTRACTOR IS PROPOSING TO PROVIDE. CUT SHEETS THAT ARE NOT MARKED TO IDENTIFY THE SPECIFIC ITEM BEING PROPOSED MAY BE RETURNED FOR CLARIFICATION.

"NO EXCEPTION" RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GLARANTEE THAT THE MATERIAL OR PRODUCTS COMPLY WITH THE BUILDING CONDITIONS OR MEASUREMENTS, WHERE SHOP DRAWINGS ARE RENIEWS, SAUP NO EXCEPTION" DOES NOT MEANY WAY RELIEVE THE CONT FROM THE RESPONSIBILITY OF PROVINDEN LABOR, METERIAL OR PRODUCTS REQUIRED TO PERFORM THE WORK AS REQUIRED THE DRAWINGS AND

SHOP DRAWINGS SUBMITTALS ARE REQUIRED ON ELECTRICAL DISTRIBUTION EQUIPMENT, PANELBOARDS, TRANSFORMERS, CONDUIT, CONDUCTORS (WIRE), CIRCUIT BREAKERS, DISCONNECT SWITCHES, WIRING DEVICES, FLOOR BOXES, LIGHT FIXTURES, TIMECLOCKS, CONTACTORS AND SURGE PROTECTION DEVICES (SPOIL).

PANELBOARDS: PROVIDE POWER DISTRIBUTION EQUIPMENT AS INDICATED ON THE ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES. PANELBOARDS SHALL BE OF DEAD FRONT CONSTRUCTION AND SHALL BE MANUFACTURED BY CUTLER-HAMMER.

PANELBOARDS SHALL NOT BE LESS THAN 20" WIDE AND SHALL BE FABRICATED FROM CODE GAUGE STEEL WITH A POST FABRICATION APPLIED GRAY ENAMEL EINICH.

PANELBOARD AND INTERNAL COMPONENTS SHALL BE CONSTRUCTED AND U.L. LISTED TO WITHSTAND THE SYMMETRICAL SHORT CIRCUIT AMPERES INDICATED ON THE ELECTRICAL RISER DIAGRAM OR PANEL SCHEDULES.

WIRE GUTTER SPACE SHALL COMPLY WITH U.L. AND NEC STANDARDS FOR PANELBOARDS.

ALL PVC CONNECTIONS SHALL BE WATERTIGHT.

PANEL BOARDS SHALL BE SURFACE OR RECESS MOUNTED AS SHOWN ON PANEL SCHEDULES AND/OR FLOOR PLANS. PANEL SHALL BE EQUIPPED WITH RECESS MOUNTED HINGES AND KEY OPERATED LOCK. ALL LOCKS SHALL BE KEYED A LIKE. TURN OVER ALL KEYS TO OWNER.

PROVIDE TYPED CIRCUIT IDENTIFICATION CARD INSIDE EACH PANEL. BASE DESCRIPTION ON LOAD SERVED.

PROVIDE LAMINATED, ENGRAVED PLASTIC NAMEPLATE WITH WHITE LETTERS STATING PANELBOARD NAME MOUNTED ON FRONT OF EACH PANEL MOUNT NAMEPLATE WITH METAL RIVETS. MINIMUM NAMEPLATE SIZE SHALL BE 3" WIDE BY 1-1/2" HIGH WITH 1/2" 190H ENGRAVED LETTERS.

CRICUIT RECACERS:

CRICUIT RECACERS SHALL BE QUICK-MAKE, QUICK-GREAK, THERMAL MAGNETIC MOLDED CASE OF FRAME BIZE, NUMBER OF POLES AND TRIP RATINGS AS SHOWN ON THE ELECTRICAL RISER DIAGRAM AND/OR PAREL SCHEDULES. MULTI-POLE DREAMERS SHALL HAVE, A SHOULE HANDLE TO TRIP ALL POLES AT ONCE.

CRICUIT BREAKERS SHALL BE FORM THE SAME MANH-FOLTRIER AND COMPATURE WITH THE COSTRING PURELEDARD.

DISCONNECT SWITCHES:
DISCONNECT SWITCHES SHALL BE ULL LISTED. SWITCH BLADES SHALL BE FULLY VISIBLE IN THE "OFF" POSITION WITH THE DOOR OPEN. ALL CURRENT CARRYING PARTS SHALL SE PLATED TO RESIST CORROGION.

SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION, THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED. THE HANDLE AND MECHANISM SHALL BE AN INTEGRAL PART OF THE DOX, NOT THE COVER, WITH POSITION FOULD CORNING PROVISIONS IN THE "OFF POSITION."

PROVIDE HEAVY-DUTY, NEMA-1 ENCLOSURE UNLESS NEMA-SR (RAIN PROOF) IS REQUIRED BY THE SWITCH LOCATION. ENCLOSURES SHALL BE PROVIDED WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH. FUSIBLE SWITCHES SHALL BE CAPABLE OF FIELD CONMERSION FROM STANDARD CLASS-H FUSE SPACING TO CLASS-J FUSE SPACING WITHOUT AFFECTING THE U.L. LISTING, THE SWITCH MUST ALSO ACCEPT CLASS-R FUSIES AND HAVE A FIELD INSTALLABLE U.L. LISTED REJECTION FEATURE TO REJECT ALL FUSES EXCEP CLASS-R. THE ULL ISTED SHORT ORCHIT FATUR. WHEN ECUIPPED WITH CLASS-J OR GASS-R FUSIES, SAUL BE 200,000 AURIPERDS RIMS SYMMETRICS.

GROUNDING: PROVIDE A SINGLE, COMPLETE GROUNDING NETWORK FOR THE ENTIRE ELECTRICAL AND SPECIAL SYSTEMS WHICH COMPLIES WITH NEC RE

SPACEWAY FOR POWER DISTRIBUTION WITHIN B.
WIRNS O'R POWER DISTRIBUTION WHILE BISTALLED IN RIGID ONLYMAZED STEEL (RIGIS), INTERMEDIATE METAL CONDUIT (MIC), ELECTRICAL METALLIC
WIRNS O'R POWER DISTRIBUTION WHILE STALLED IN RIGID ONLYMAZED STEEL (RIGIS), INTERMEDIATE METAL CONDUIT (MIC), ELECTRICAL METALLIC
WIRNS ONLYMAN ONLYMAN OR SCHEDULE 4080 PVC CONDUIT. PROVIDE THE CONDUIT TYPE INDICATED IN THIS SPECIFICATION WHERE CON

RIGIO GALVANIZED STEEL (ROS) CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED ABOVE GROUND AT EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT MAY BE SUBJECTED TO PHYSICAL DAMAGE FROM VEHICLES, MAINTENANCE FOLIPMENT, ETC. PROVIDE LARGE RADIUS SWEEP ELBOWS FOR ROS CONDUIT.

IMC CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED IN ABOVE GROUND, EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE, BUT WILL BE EXPOSED TO RAIN WATER, HAZARDOUS CONDITIONS, ETC. THREADLESS FITTINGS FOR INC IS NOT ACCEPTABLE.

ENT CONDUIT WITH SET SCREW FITTINGS SHALL BE PROVIDED IN ABOVE GROUND INTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE AND WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS.

EMT CONDUIT WITH COMPRESSION FITTINGS CAN BE PROVIDED IN PROTECTED, DAMP EXTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO DIRECTRADRECT RANNWAITERALIQUIDG (E.G. (MOER CANOPES). SET SCREW FITTINGS ARE NOT ACCEPTABLE FOR ANY EXTERIOR LOCATION. PROVIDE INC CONDUIT WITH THEREOED FITTINGS WHERE CONDUIT WILL BE EXPOSED TO DIRECTRINGFORT PRAINWAITER/JOURGS. ELIT CONDUIT SHALL NOT BE USED IN LOCATIONS WHERE CONDUIT COULD BE EXPOSED TO DIRECTIND/RECT RAINWATER/ULQUIDS, WIND DRIVEN RAIN, HOSE DOWN AREAS, OPEN ARE AREAS WITHOUT AIR CONDITIONING (AIR IESS CONDUIT WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS) AND ARE WHERE RAINWATERSULDIUSS MIGHT DRIP OR RUIN BY TO CONDUIT, AREAGONGE OR DEVICES.

SCHEDULE 80 PVC CONDUIT SHALL BE USED FOR UNDERGROUND SERVICE ENTRANCE FEEDERS AND ALL CONDUIT BELOW ROADWAYS LIN.O. ON THE RISER DIAGRAMS ANDIOR FLOOR PLANS. PROVIDE LARGE RADIUS RIGID GALVANIZED STEEL ELBOWS FOR SCHEDULE 80 PVC CONDUIT. COAT RGS ELBOWS WITH

SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL UNDERGROUND FEEDERS AND WIRING EXCEPT FOR SERVICE ENTRANCE FEEDERS AND UNDER ROADWAYS. PROVIDE LANGE RADIUS RIGIO GALVANIZED STEEL ELBOWS FOR SCHEDULE 40 PVC CONDUIT WHERE OVERALL CONDUIT RUN IS GREATER THAN 100 FEET. COAT ROS BLOONS WITH BLOCK MISTIC.

PVC CONDUIT SHALL NOT BE USED MORE THAN SIX INCHES ABOVE FINISHED GRADE IN EITHER INTERIOR OR EXTERIOR LOCATIONS. PVC COMDUIT SHALL TRANSITION TO METAL CONDUIT NO MORE THAN SIX INCHES ABOVE GRADE.

FLEXIBLE METAL CONDUIT SHALL BE USED TO CONNECT LIGHTING FIXTURES AND EQUIPMENT SUBJECT TO VIBRATION, INCLUDING AC EQUIPMENT, MOTORS, TRANSFORMERS, ETC. OR AT MACCESSRILE LOCATIONS PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS FOR EXTERIOR APPLICATIONS.

CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, OR CEILINGS IN FINISHED AREAS. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS EXCEPT WHEN ABBOUT THE Y MEYERSARY. CONDUIT SHALL BE STRAIGHT AND PARALLE TO BUILDING I MADE. PROVIDE ALL CONDUIT, BOTH NEW AND EXISTING, WITH PROTECTION AGAINST DAMAGE AND ENTRANCE OF WATER, DIRT, FOREIGN MATERIAL, ETC WITH WATERTIGHT CAPIE, PROVIDE WATERTIGHT ASSEMBLIES, SEALANTS, ETC WHERE CONDUIT PASSES THROUGH INTERIOR EXTENDOR OF BUILDING AT BOTH ADDRESS AND ORDINAL DICATIONS.

FIRE RATED ASSEMBLIES SHALL BE PROVIDED WHERE CONDUIT PASSES THROUGH FIRE RATED CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAW FOR EXACT LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO THE FIRE STOP PENETRATION DETAILS ON THE ELECTRICAL DRAWINGS.

CONDUIT SIZES SHOWN ON THE DRAWINGS AND SCHEDULES ARE THE MINIMUM SIZES REQUIRED, LARGER SIZE CONDUIT TO FACILITATE WIRE PULLS, ETC, 16 DEBUTTED

INSULATING BUSHINGS:
RISULATING BUSHINGS:
RISULATING BUSHINGS WITH DOUBLE LOCK-MUTS SHALL BE PROVIDED WHEREVER A CONDUCTOR No.4 AWG OR LARGER ENTERS AN ENCLOSURE, PANEL
RISULATING BUSHINGS WITH DOUBLE LOCK-MUTS SHALL BE PROVIDED WHEREVER A CONDUCTOR No.4 AWG OR LARGER ENTERS AN ENCLOSURE, PANEL
RISULATING BUSHINGS:
RISULAT

CONDUCTORS:

POWER DISTRIBUTION WIRMS. CONDUIT WIRE FILL SHOWN ON THE DRAWINGS AND FEEDER SCHEDULES ARE BASED ON TYPE THAW WIRE UNLESS.

CONDUCTORS UP TO AND INCLUDING No. 10 AWG SHALL BE SOLID AND CONDUCTORS No. 8 AWG AND LARGER SHALL BE STRANDED, MINIMUM CONDUCTOR SIZE SHALL BE NO.12 AWG. COMPUCTORS SHALL BE CONTINUOUS BETWEEN EQUIPMENT AND DEVICES. SPLICES ARE TO BE MADE ON IN ACCESSIBLE JUNCTION OR OUTLET BOXES AND SHOULD BE REPT TO A MINIMUM. SPLICES ON No.12 AND No.10 WIRE SHALL BE MADE WITH PRESSURE CONNECTORS CAPABLE OF CARRYING DELILIWING CAPACITY. SPLICES ON NOS WIRE AND LANGER SHALL BE WITH SOLDERLESS LUAS WHAPPED WITH BOTH RUBBER AND PLASTIC ELECTRICAL TAPE. COMMECTIONS TO PICED EQUIPMENT TERMINALS ARE TO BE MADE WITH SOLDERLESS LUGS.

ALL CONDUIT USED FOR POWER DISTRIBUTION SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUIT RACEWAY SHALL NOT BE USED IN PLACE OF A

WIRING DEVICES:
THE EXTRATO OF WIRING DEVICE WORK IS INDICATED ON THE DRAWINGS, WIRING DEVICES ARE DEFINED AS SINGLE DISCRETE UNITS OF ELECTRICAL
DISTRIBUTION SYSTEMS THAT ARE INTRODED TO CARRY BUT NOT UTILIZE ELECTRIC EMERGY. TYPES OF WIRING DEVICES IN THIS SECTION INCLUDE:

DISTRIBUTION SYSTEMS THAT ARE INTEND RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS, ARC FAULT CIRCUIT INTERRUPTERS, AND LIGHTING AND CONTROL SWITCHES.

PROVIDE WHITE COLORED WIRING DEVICES AND MATCHING THERMOPLASTIC COVERPLATES UNLESS NOTED OTHERWISE. FINAL COLOR SELECTION SHALL BE COORDINATED WITH OWNER ARCHITECT PRIOR TO BID.

QUALITY ASSURANCE: NEC COMPLIANCE: COMPLIA

UL COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF U.L. 20, 486A, 498 AND 943 PERTAINING TO INSTALLATION OF WIRING DEVICES. HEEC COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF HEEC STANDARD 241, "RECOMMENDED PRACTICE FOR ELECTRIC POWER SYSTEMS IN COMMERCIAL BUILDINGS", PERTAINING TO ELECTRICAL WIRING SYSTEMS.

NEMA COMPLIANCE: COMPLY WITH APPLICABLE PORTIONS OF NEMA STANDARDS PUBLICATION NUMBER WID-1, "GENERAL PURPOSE WIRING DEVICES", WID-2, "SEMICONDUCTOR DIMMERS FOR INCANDESCENT LAMPS", AND WID-5, "SPECIFIC PURPOSE WIRING DEVICES".

RECEPTACLES:

8/8/FILES: RROVIDE SPECIFICATION GRADE 20 AMPERE, 125 VOLT, HEAVY DUTY, 2 POLE, 3 WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT OROUND SCREW AND METAL PLASTER EARD DESIGNED FOR SIDE AND BACK WITHING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN NEW 5-20'R CONFIGURATION UNLESS NOTED OTHERWISE. COORDINATE ALL "SPECIAL" RECEPTACLES WITH THE EQUIPMENT SERVED PRIOR TO ROUGHAN, PROVIDE RECEPTACLE ARTHING AND CONFIGURATION TO MONTH EQUIPMENT SERVED.

DUPLEY: PROVIDE SPECIFICATION GRADE 20 AMPERE, 125 VOLT, HEAVY DUTY, 2 POLE, 3 WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW AND METAL PLASTER EARS DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN MEMA SADIO CONFIGIRATION.

GROUND FAULT CIRCUIT INTERRUPTERS: PROVIDE SPECIFICATION GRADE TEED THRUT TYPE GROUND FAULT CIRCUIT INTERRUPTERS, WITH HEAVY DUTY DURIEX RESEPTACLES, CAPAGE OF PROTECTION CONNECTED DOWNSTREAM RESEPTACLES ON BRIGHT GROUNT, MAD OF BEIND INSTALLED IN A 24W DEEP DUTIE FROW WITHOUT MAD PERFE, ROUNDING TYPE ULL HAVED CLASS A, GROUND, F, INVIED 20 AMPRES, 120 VOLTS, 60 HZ, WITH BOULD STATE GROUND FAULT SENSING AND SIGNALING, WITH 6 MULLHAMPERES GROUND FAULT TRIP LEVEL, EQUIP WITH NEMA 5-20R

PROVIDE FLOOR BOXES FOR RECEPTACLES INDICATED AS MOUNTED AT THE FLOOR, FLOOR BOXES SHALL BE AS INDICATED ON THE PLANS AND SYMBOLS.

MOTION DETECTOR, TIMER AND SNAP SWITCHES:

PROVIDE DEVICES INDICATED ON THE FLANS OR EQUAL. DEVICES SHALL BE 20 AMPERE, 120/277 VOLTS AC. PROVIDE WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS, SWITCH HANDLE, AND SIDE-WIRED SCREW TERMINALS. DEVICES SHALL BE WHITE.

LIGHTING FIXTURES:

LIGHT ING PIAL TURE OF THE CONTROL WIRE AND LAMP ALL LIGHTING FOTURES SHOWN ON SITE PLAN, FLOOR PLANS AND LIGHTING FOTURE SCHEDULE. AT SUBSTANTIAL COMPLETION, CONTRACTOR SHALL CLEAN DUST, DEERS, PROGRESPATTS, ETC FROM ALL FRITURE LENSES, LOUVERS, AND REFLECTIORS AND SHALL REPLOCAL LIAMPS, BALLSTS, ETC THAT ARE NOT WORKHOW.

CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWNIGS (SECTIONS, ELEVATIONS, DEVAUS, ETC.) FOR LIGHTING FOXTURES WHICH MAY BE SHOWN AND SHALL NOTIFY THE ARCHITECT BROWNER PROR TO BID IF FIXTURES APPEAR ON THE ARCHITECTURAL DRAWNIGS THAT DO NOT APPEAR ON THE ELECTRICAL DRAWNIGS.

CONDUIT FOR COMMUNICATIONS AND OTHER SYSTEMS:
RADEWAY FOR COMMUNICATIONS WIRNING (VOICE, DATA, CABLE TELEPHISM, ENTITY GATE SYSTEM);
REFER TO THE COMMUNICATIONS RISER DIAGRAM AND ELECTRICAL SYMBOL LEGISHO FOR ADDITIONAL REQUIREMENTS.

PROVIDE CONDUIT, BACKBOX, BLANK COVERPLATE AND PULL STRING FOR EACH OUTLET INDICATED ON CONSTRUCTION DOCUMENTS. PROVIDE BUSHING ON ENDS OF CONDUIT. DEVICES AND WIRING PROVIDED BY OTHERS. PROVIDE EACH CONDUIT WITH PULL STRING STUBBED FROM BACKBOXOR STUB-UP TO WHERE SHOWN

REQUIRED TESTING:
TESTS SHALL DEMONSTRATE THAT THE SYSTEM FUNCTIONS PROPERLY THROUGHOUT, THAT IT IS FREE FROM GROUNDS AND SHORTS, AND THAT ALL
REQUIREMENTS HEREIN HAVE BEEN COMPLIED WITH. CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND PERSONNEL FOR TESTS
AND THE WHITEN MILL DRAPPLY THE CURRENT. TESTS SHALL BE AS PRESCRIBED BY THE AUTHORITY HAVING JARROCHTON, AND, OWNERN AND THE
SYMMOTO, COLMISTIS AND SHALL INCLUDE MEDIGER AND GROUNDING TESTS IN ACCORDANCE WITH ALE, REQUIREMENTS AND BRIDES THE ADMINISTRY

SYMMOTO.

PROVIDE A GROUND RESISTANCE TEST OF EACH NEW GROUND CONDUCTOR, GROUND LUG, GROUND BAR, ETC SO THAT THE ENTIRE SYSTEM PROVIDED UNDER THIS CONTRACT IS SAFELY GROUNDED. CORRECT ANY GROUND CONDITION THAT EXCEEDS N.E.C. REQUIREMENTS AND INDUSTRY

PROVIDE A MEGGER TEST OF EACH NEW CONDUCTOR PROVIDED UNDER THIS CONTRACT TO GUARANTEE THAT EACH NEW CONDUCTOR IS FREE FROM INBULATION DAMAGE, ETC. REPLACE ANY CONDUCTOR THAT DOES NOT PASS MINIMUM TEST VALUES. PROVIDE OWNER/ARCHITECT) ENGINEER WITH COPY OF FINAL TEST RESULTS FROM ALL TESTS PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION, ANCA, OWNER AND THE CONTRACT DOCUMENTS. WHEN REQUESTED, THE CONTRACTOR SHALL CONDUCT REQUIRED OPERATING TEST(8) IN THE PRESENDE OF THE OWNER/ARCHITECT INSUMERS AND OTHER AUTHORISED PRESCNS.

FRM. ACCEPTANCE: AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE OWNERS ARCHITECT/ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE CONTRACTOR. THE INSPECTION SHALL INCLIDE, BUT NOT SECLIMITED TO, CHECK ALL PANELS ARE COMPLETE WITH INAMEPLATES AND CIRCUIT DIRECTORIES, ALL LIGHTING FIXTURES ARE OPERATING, PROPERLY CLEANED AND LAMPED, AND THAT ALL WORK HAS BEEN PERFORMED IN PROFESSIONAL MANDER.

FINAL ACCEPTANCE OF THE PROJECT SHALL NOT PREJUDICE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR OF ANY DEFECTIVE WORK OR MATERIALS. WARRANTY:
ALL PARTS, MATERIALS, EQUIPMENT AND LABOR FURNISHED UNDER THIS BECTION OF THE SPECIFICATIONS SHALL BEAR A ONE (1) YEAR, NO COST TO
THE OWNER, WARRANTY FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL PROVIDE ALL OF THE ABOVE WARRANTY REQUIREMENTS IN A
WRITTEN STATEMENT ALLOW WITH EQUIPMENT MANUFACTURERS WARRANTES.

NECURSO DYNAMINAS:
CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONDITIONS INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS WHERE DIFFERENT FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AS PER THE 2010 FLORIDA BUILDING CODE EMERGY CONSERVATION SECTION SOSTAL TORWINGS WHICH STATES.

565.7.4.1 DRAWNOS WHICH STATES:
CONSTRUCTION DOCUMENTS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DUAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS REVICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
THE SCALE ON THESE AS BUILT DRAWNINGS SHALL BE NO BIMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

OPERATION & MAINTENANCE MANUALS:

THE CONTRACTOR SHALL PROVIDE AS PER THE 2010 FLORIDA BUILDING CODE ENERGY CONSERVATION SECTION 505.7.4.2 MANUALS WHICH STATES: THE CONTROLLER SHALL PROVINCE AS PUT HE 2010 FOUND SOLUTIONS OF SOLUTIONS CONTROLLER AS A MONITORISE C

I. SUBMITTAL CHATA THAN ESCALATION INVALIDATION SECRET CHATATION FOR EACH PRICE OF EQUIPMENT REQUIRING MA ACTIONS SHALL BE CLEARLY IDENTIFIED.

3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

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aidney@meS-engr.com ME3.Job No: 13-0472 Date: 04/02/2015 C.O.A. 27552 & ASSOCIATES, INC. ARCHITECTURE

PLANNING 134 9th AVENUE WEST PHONE (941)729-5691 FAX (941)729-5692

- AA-C001654 -

6 ELECTRICAL ECIFICATION

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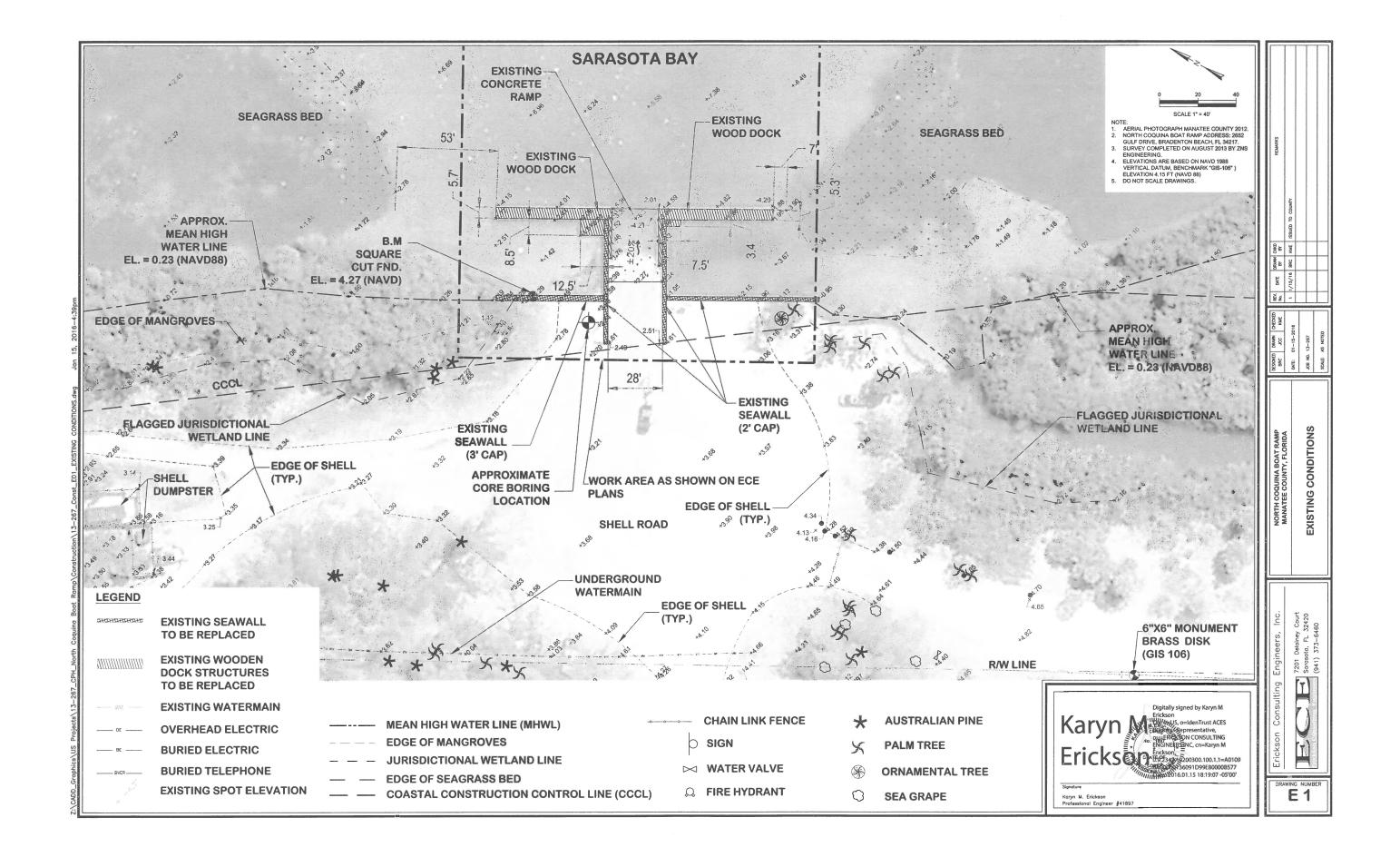
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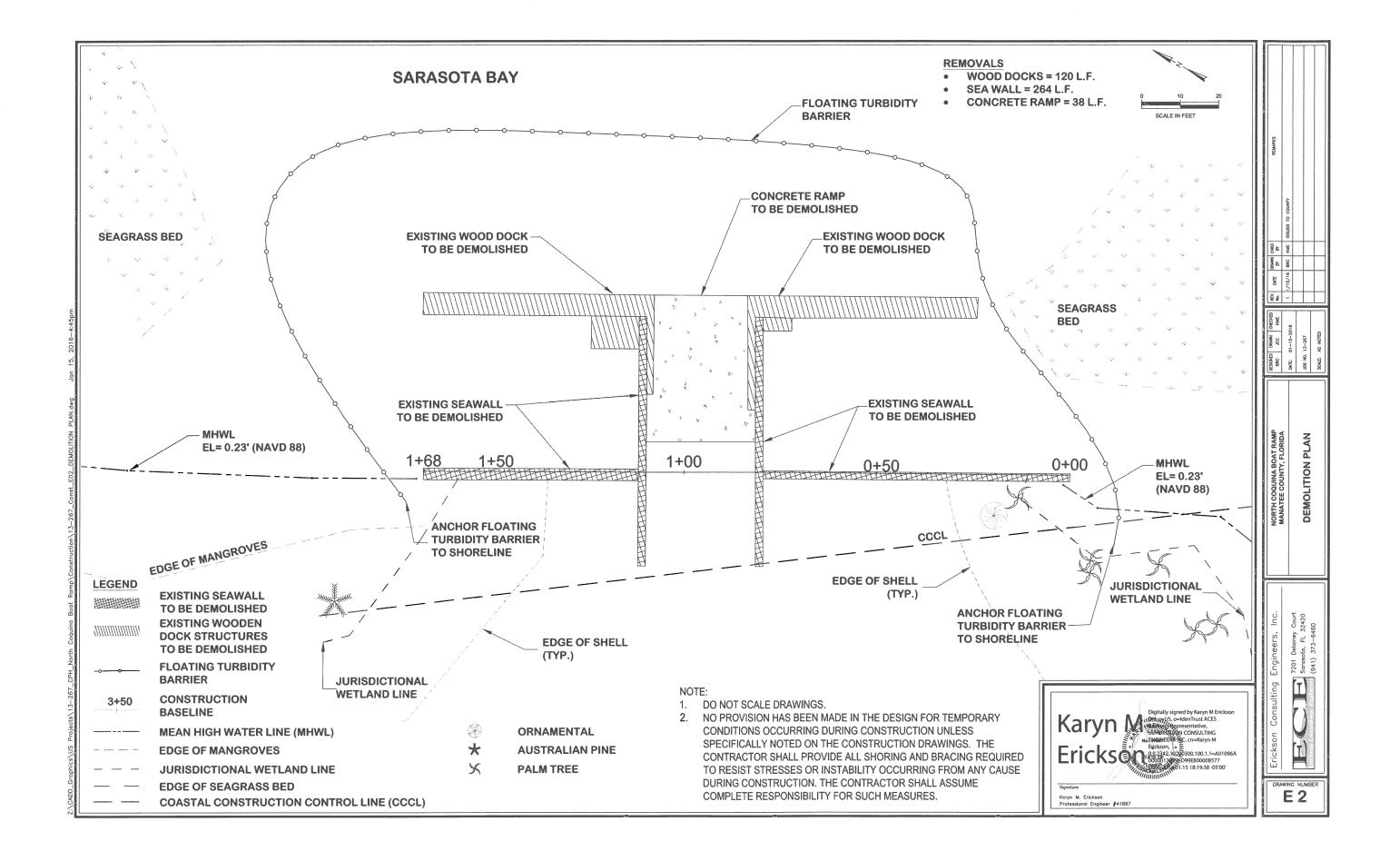
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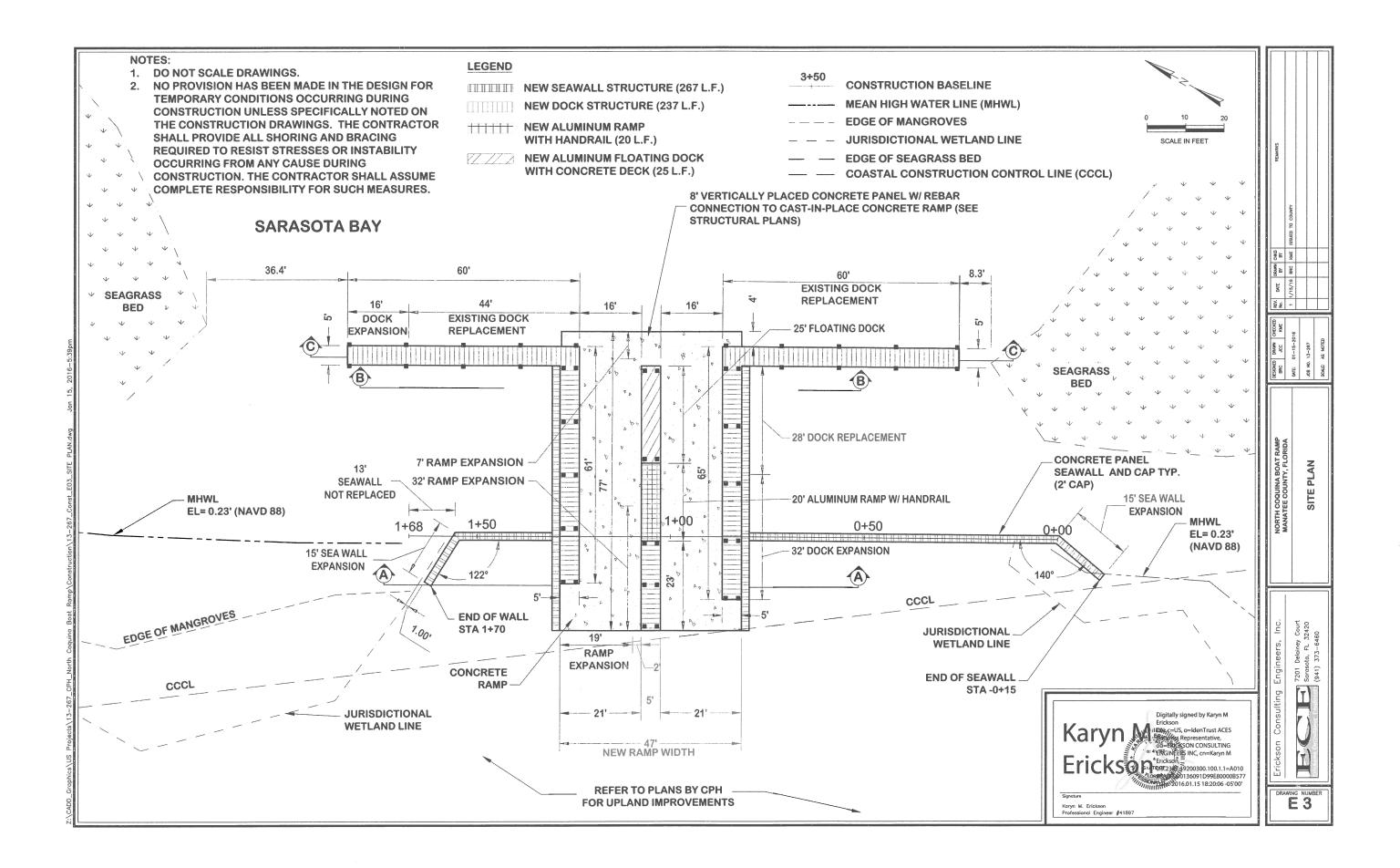
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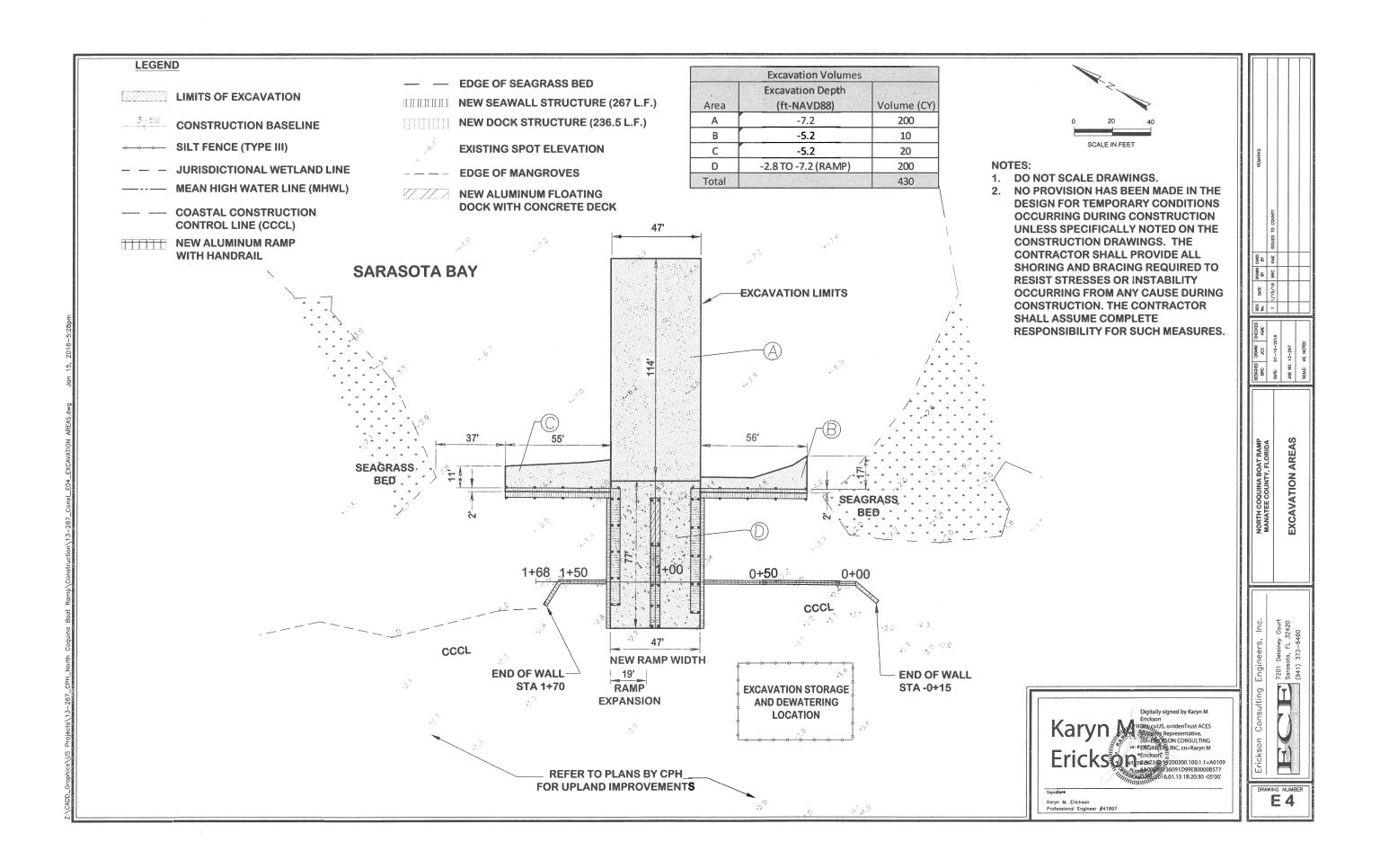
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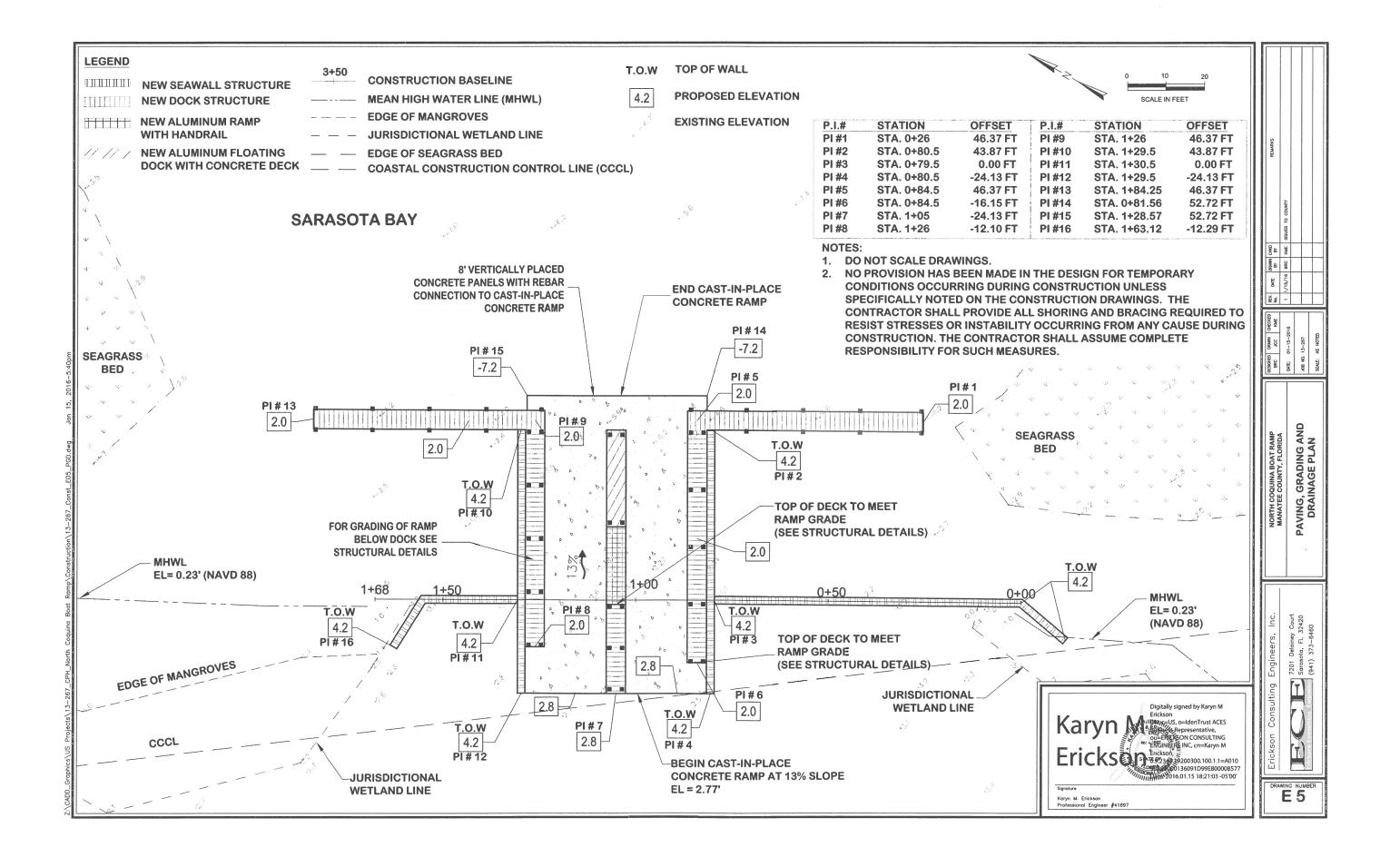
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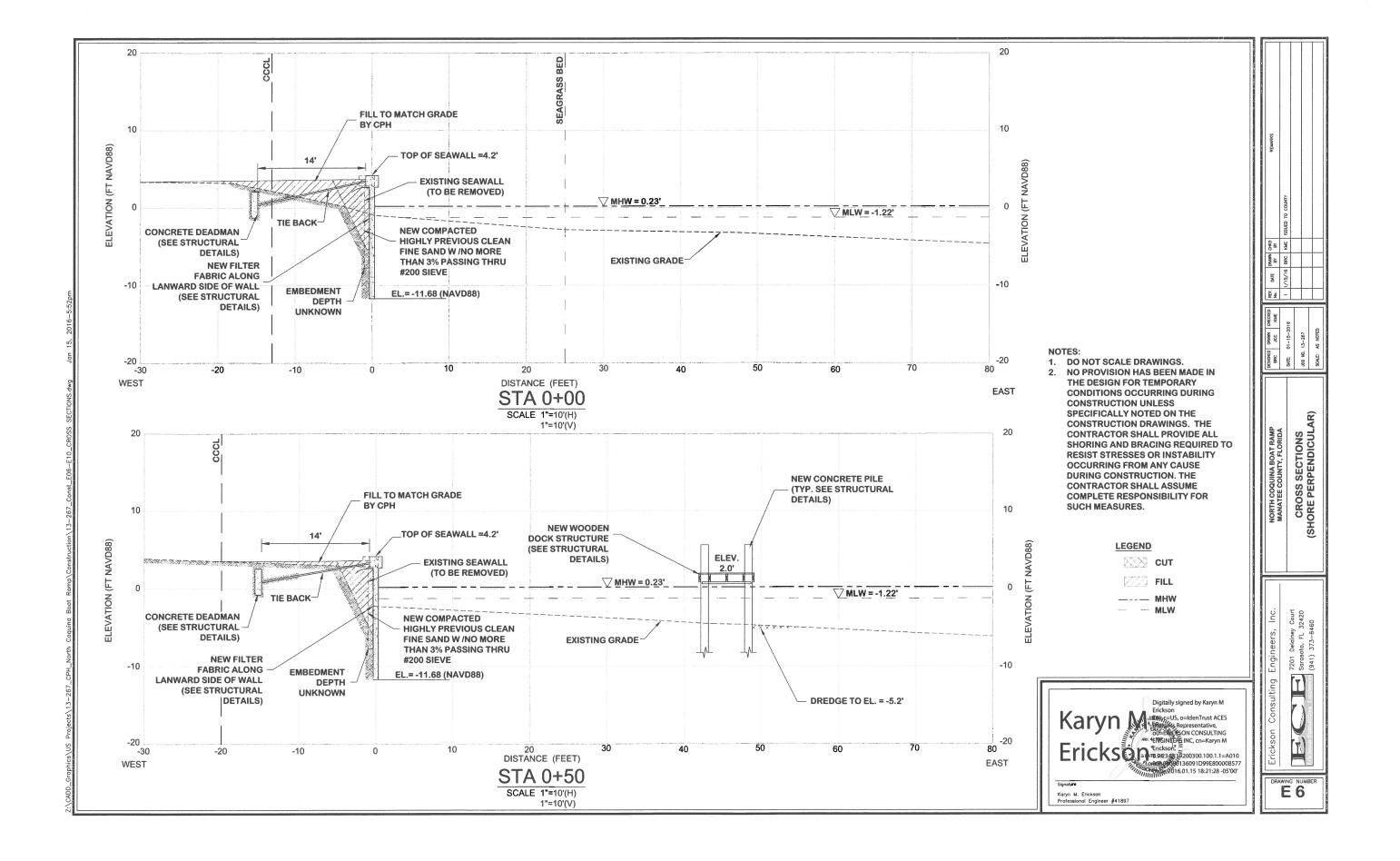


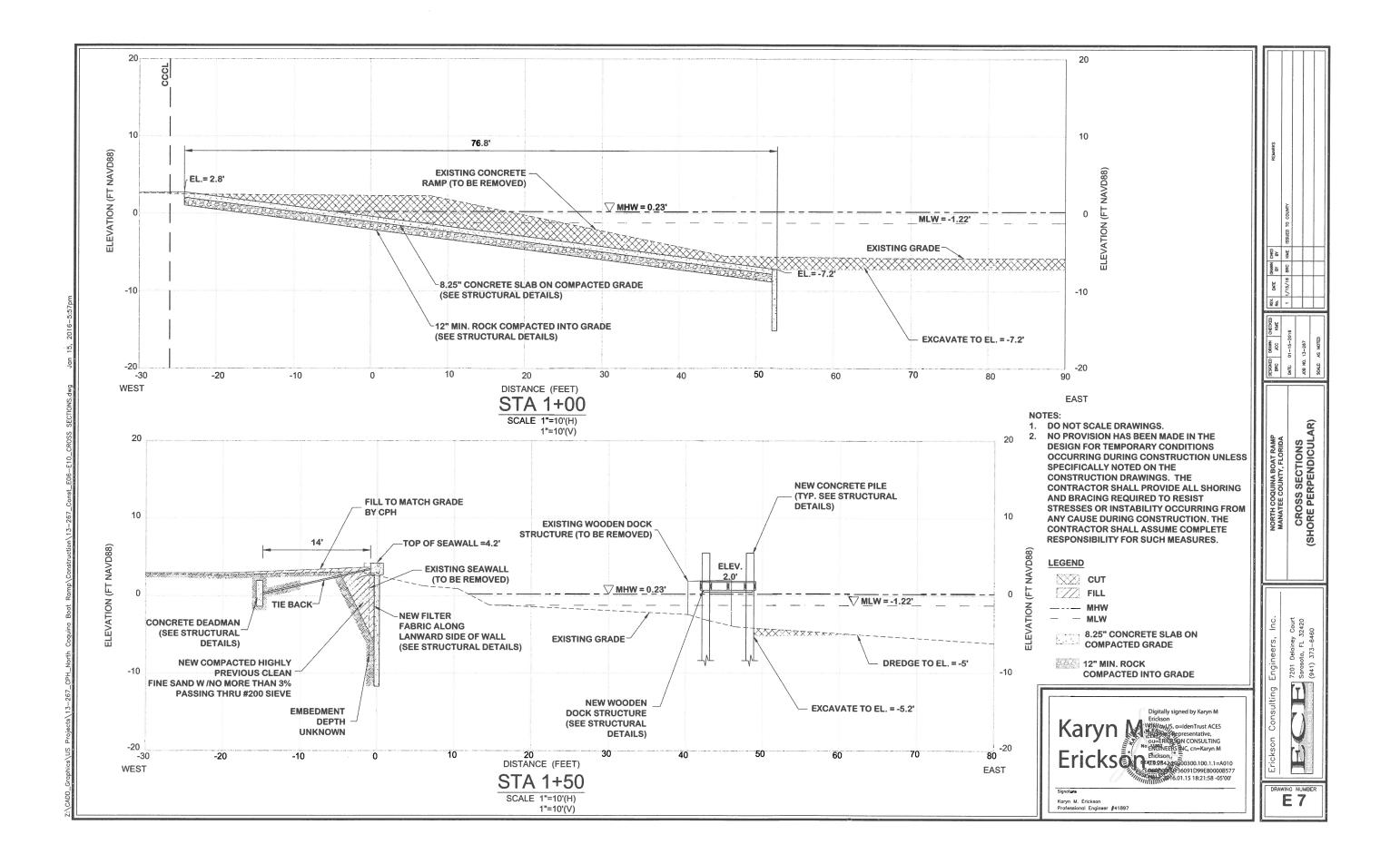


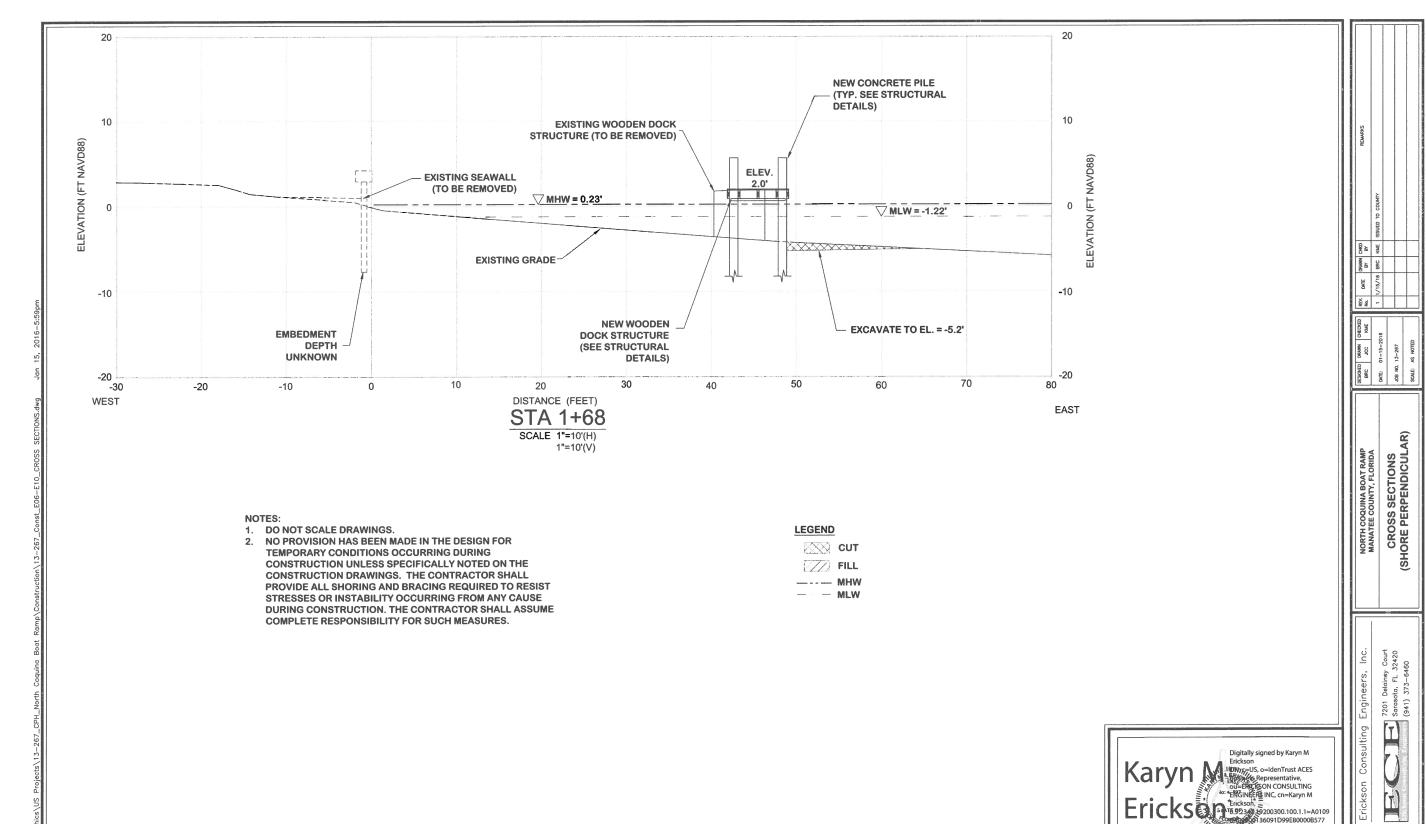






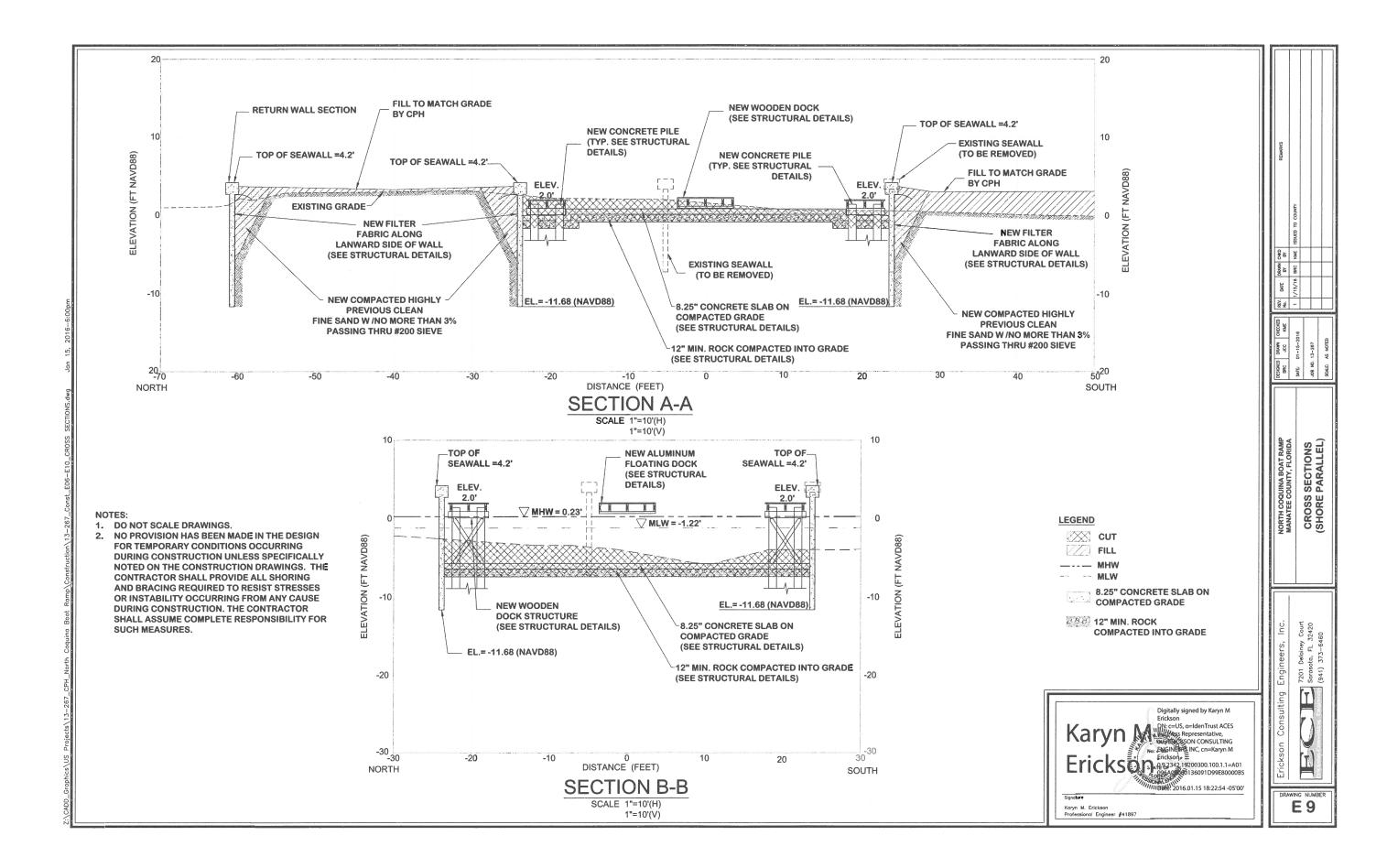


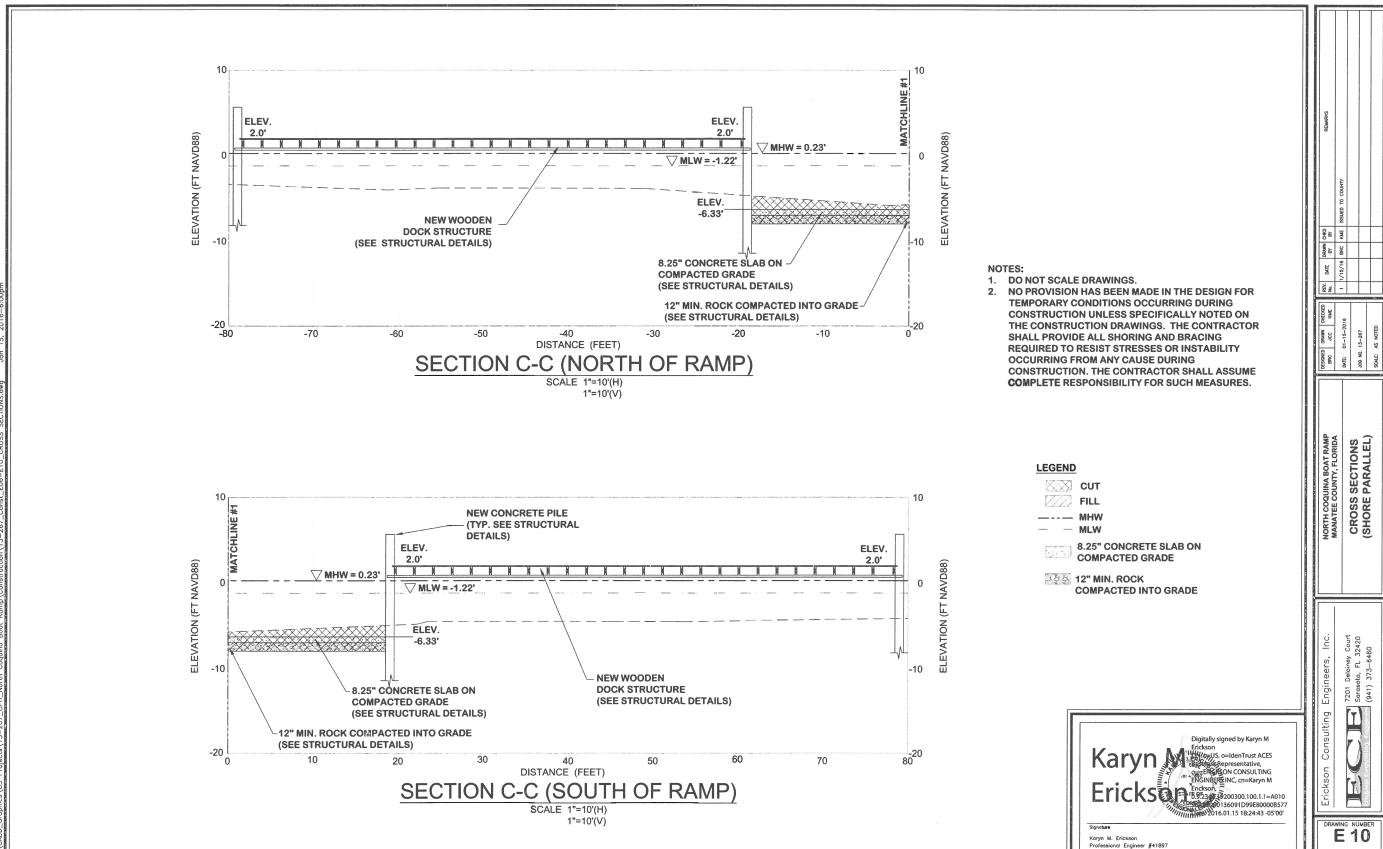


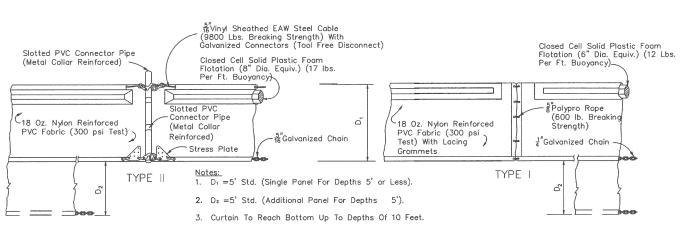




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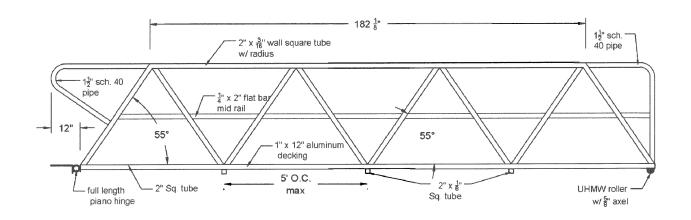


4. Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

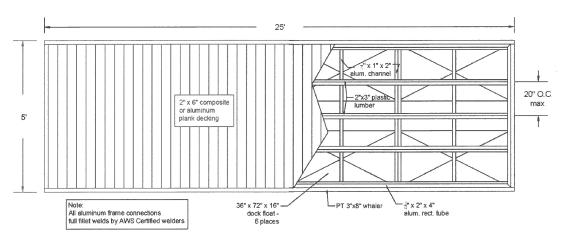
5. Refer to FDOT Standard Spec #104 for Floating Turbidity Barriers.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

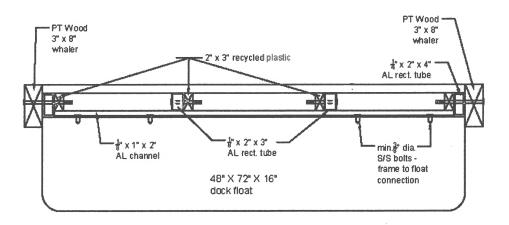
FLOATING TURBIDITY BARRIER FDOT INDEX #103 NOT TO SCALE



4'x20' ALUMINUM GANGWAY SIDE ELEVATION NOT TO SCALE



FLOATING DOCK PLAN VIEW NOT TO SCALE



FLOATING DOCK SECTION VIEW NOT TO SCALE



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JOB NO. 13
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7085 SOUTH TAMIAMI TRAIL, SARASOTA, FL 34231 PHONE (941) 929-1552 FAX (941) 929-1553 email: cad@stirlingwilbur.com EB6482

NORTH COQUINA **BOAT RAMP** MANATEE COUNTY, FL

ISSUED FOR

CONSTRUCTION 12-21-15

S2013-103

BRIAN STIRLING, PE 34927

No. 34927

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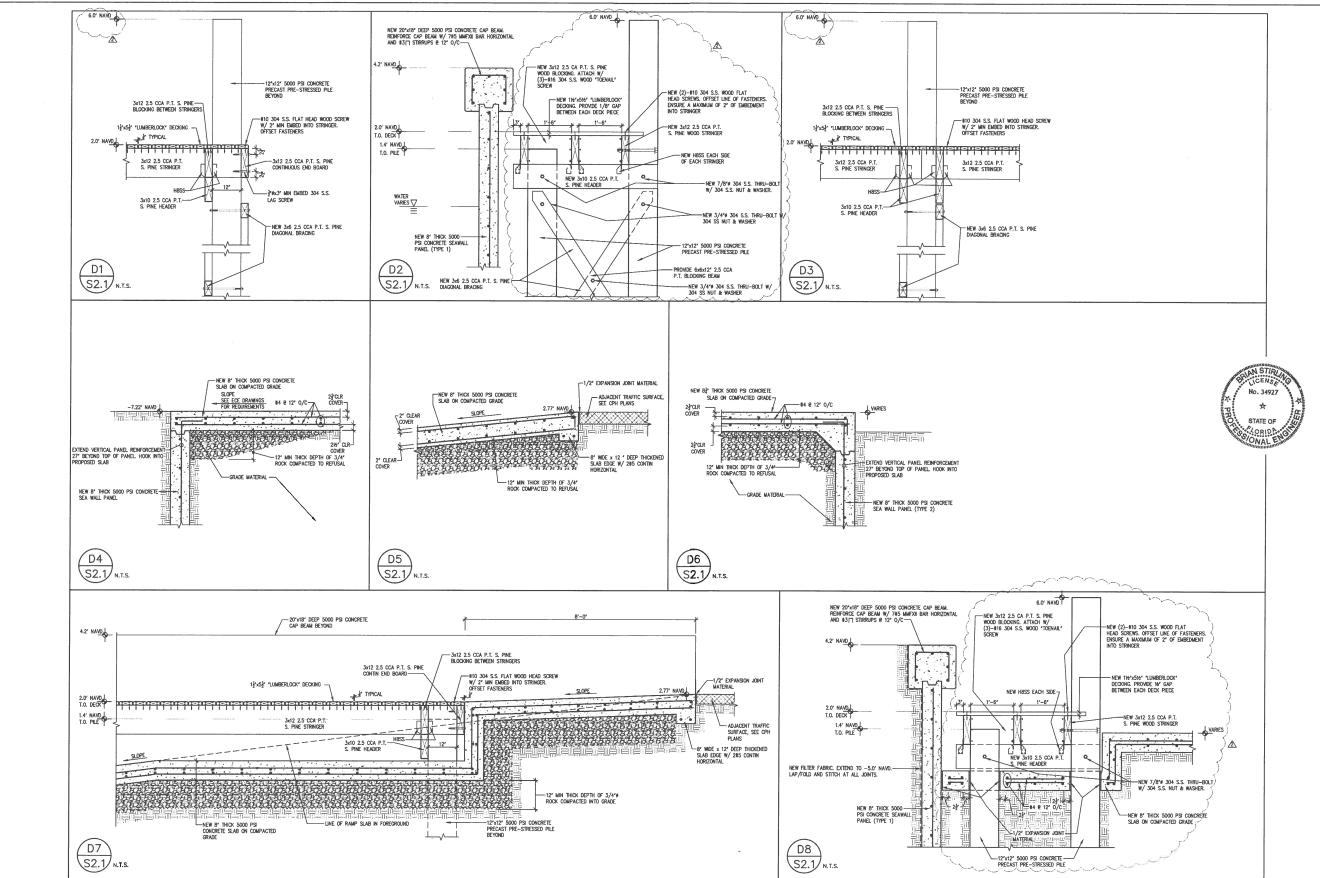
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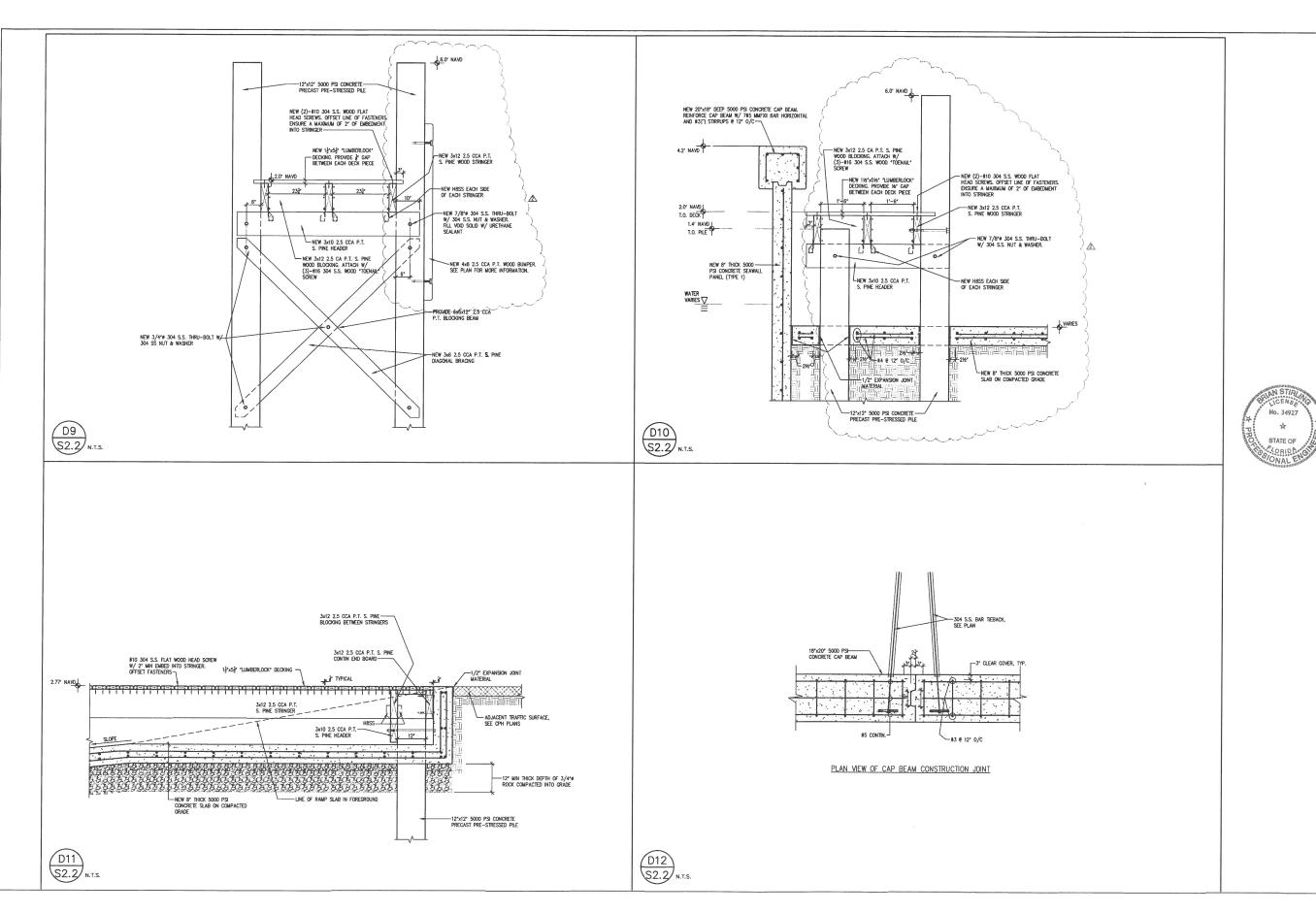
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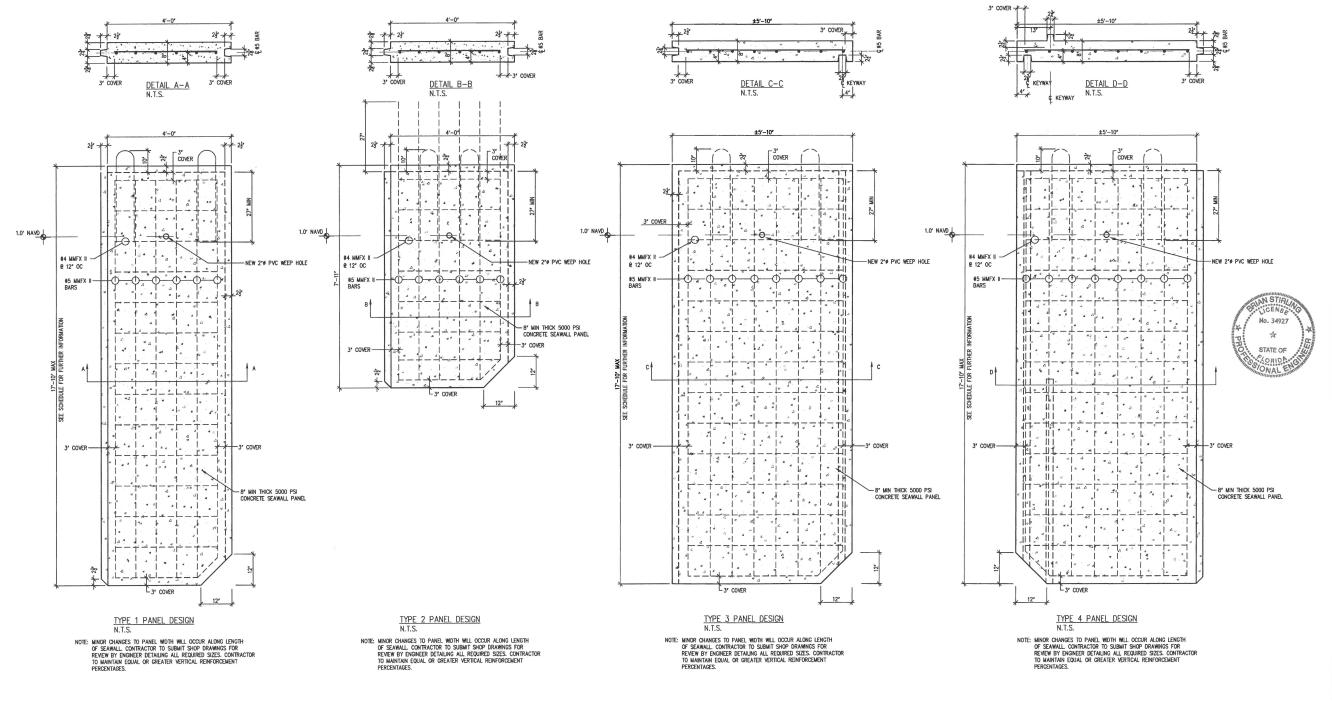
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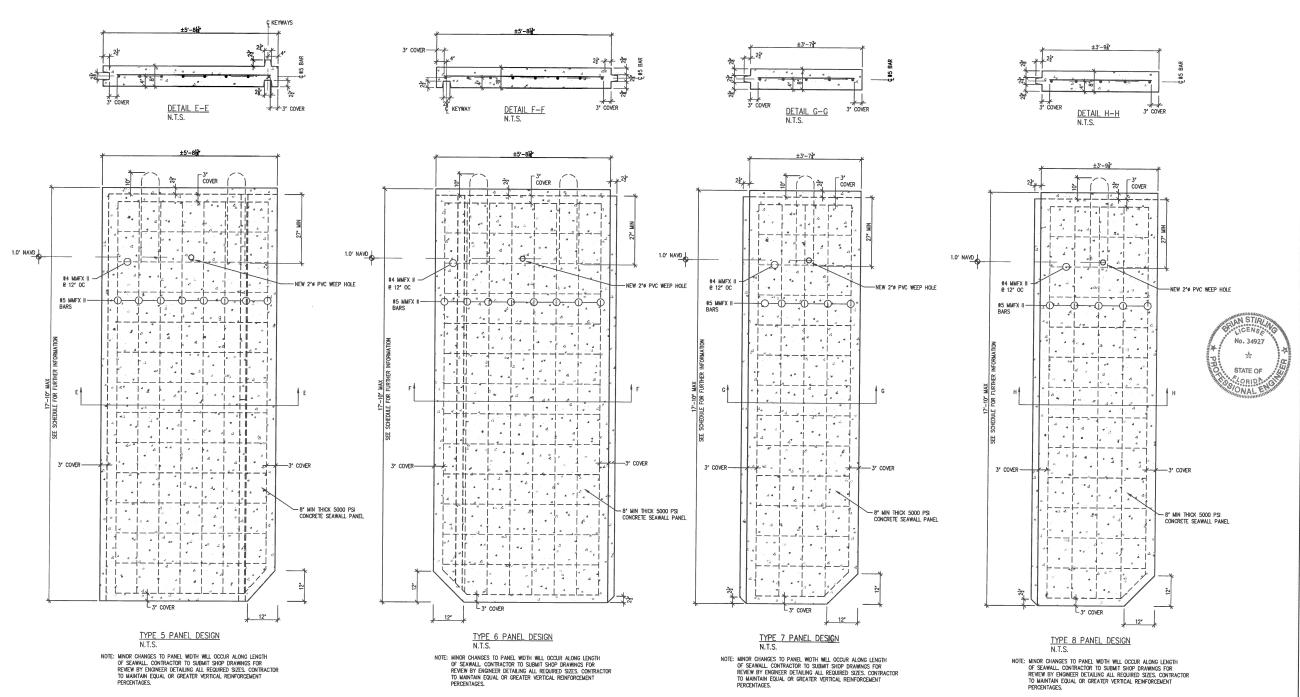
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DRAWN BY RTR
CHECKED BY BHS

PLOT SCALE AS NOTED
THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

1. THE STRUCTURE DESCRIBED ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION.

1. ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE ON SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE

- 3. NO PROVISION HAS BEEN MADE IN THE STRUCTURAL DESIGN FOR TEMPORARY CONDITIONS NO PROVISION HAS BEEN MADE IN THE STRUCTURAL DESIGN FOR TEMPORARY CONDITION
 OCCURRING DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL
 DRAWINGS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING
 REQUIRED TO RESIST STRESSES OR INSTABILITY OCCURRING FROM ANY CAUSE DURING
 CONSTRUCTION, THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR SUCH
 MEASURES.
 4. ALL CODES AND STANDARDS REFERRED TO ARE LATEST EDITIONS INCLUDING LATEST
 BENSIONS AND ADDRAFTION.
- REVISIONS AND ADDENDA
- 5. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING COMPONENTS, NOTED DISTRESSED AREAS, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL COMPONENTS THE CONTRACTOR SHALL ALSO ESTABLISH EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO PROCEEDING.
- 6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING DEMOLITION PHASE AS TO ENSURE THAT THE FOUNDATIONS AND SLABS OF THE STRUCTURES AND SLABS TO REMAIN, ARE NOT UNDERMINED OR THAT THE SOIL SUPPORT IS NOT COMPROMISED.
- REFER TO PLANS OF EXISTING STRUCTURES IN "COVERNMENT'S" POSSESSION FOR MORE INFORMATION.

 7. REMOVE AND LEGALLY DISPOSE ALL DEMOLITION DEBRIS TO AN APPROVED SITE.

 8. ENGINEER MUST BE CONTACTED 48 HOURS PRIOR TO EACH POUR OF ANY STRUCTURAL CONCRETE.

 9. DO NOT DISPOSE OF ANY MATERIALS INTO THE WATER.

FOUNDATIONS:

1 BACK FILLING AND COMPACTION:

A. BACK FILL ONLY WITH APPROVED MATERIAL. FOLLOW BACK FILLING RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT IN THE ABSENCE OF SUCH INFORMATION, AND UNLESS NOTED OTHERWISE, BACK FILL IN 8' MAX.) HIGH UFTS, COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DRY DENSITY. CONTRACTOR SHALL SUBMIT PROPOSED FILL AND DRAINAGE MATERIAL FOR REVIEW BY ENGINEER PRIOR TO COMMENCEMENT OF PROJECT.

GENERAL

ALL CONCRETE MATERIALS BATCHING AND WORKMANSHIP SHALL CONFORM TO THE FOLLOWING:
 ACI 304 CONCRETE PLACED UNDER WATER

ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ASTM C94 READY MIX CONCRETE

- 1. CONCRETE MINIMUM COMPRESSIVE STRENGTH(S) FOR CONCRETE SHALL BE AS NOTED ON . CONCRETE MINIMUM COMPRESSIVE SIRENGTH(S) FOR CONCRETE SHALL BE AS NOTED ON THE STRUCTURAL PLANS, SLUMP 4* +/- 1* WITH A MAXIMUM WATER-TO—CEMENT RATIO OF 0.35, (5,000 PS)), 046 (3000 PS)). PROVIDE FLY ASH SUBSTITUTION TO 20% OF CEMENT CONTENT, ADD 50 LBS OF SILICA FUME PER CUBIC YARD OF MATERIAL. IN ALL CONCRETE PROVIDE A HIGH RANGE WATER REDUCING ADMIXTURE CONFORMING TO ASTM C260; ALL OTHER ADMIXTURES SHALL CONFORM TO ASTM C494 AND SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ADD CORROSION INHIBITOR ADMIXTURE PER MANUFACTURERY'S DIRECTIONS. MANUFACTURER'S RECOMMENDATIONS.
- 2. SUBMIT MIX DESIGN(S) FOR REVIEW BY THE ENGINEER OF RECORD A MINIMUM OF 7 DAYS
- 2. SOUNT MIN DESIGN(S) FOR REVEN OF THE ENGINEER OF RECORD A MINI-PRIOR TO INITIAL CONCRETE POUR.

 3. ALL MILD REINFORCEMENT SHALL BE MMFX 2 REBAR (ASTM A615 GRADE

- 1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED TO
- CONFORM WITH THE ACI DETAILING MANUAL. ACI SP-66. 2. MINIMUM REINFORCING STEEL LAP SPLICE LENGTH, UNLESS NOTED OTHERWISE, IS 36X BAR DIAMFTER
- 3. POUR STRUCTURAL CONCRETE WITHIN THE FOLLOWING TOLERANCES VARIATION FROM PLUMB: 1/4" IN 10'-0".
- VARIATION FROM LEVEL IN TOPS OF SLABS, AND BEAM: 1/8" IN 10'-0'.

 SHALL BE INSTALLED SO AS NOT TO IMPAIR THE INTEGRITY OF THE STRUCTURE, AND IN A MANNER WHICH WILL NOT REQUIRE THE BENDING, CUTTING OR DISPLACEMENT OF THE REINFORCEMENT
- REINFORCEMENT.

 5. FOR READY MIX CONCRETE THE MAXIMUM TIME PERMITTED BETWEEN BATCHING AND DEPOSITING THE FORM WORK IS 90 MINUTES, CONCRETE NOT PLAGED WITHIN THIS TIME LIMIT SHALL BE REJECTED.

 6. THE ADDITION OF MIX WATER AT THE SITE TO INCREASE THE CONCRETE SLUMP SHALL NOT
- BE ALLOWED AND SHALL BE CAUSE FOR REJECTION OF THAT BATCH OF CONCRETE.

 7. OPENINGS OR FASTENERS REQUIRED AFTER CONCRETE PLACEMENT SHALL BE INSTALLED.
- ONLY WITH THE APPROVAL OF THE ENGINEER.

 8. PLACEMENT OF CONCRETE TO BE POURED BELOW WATER SHALL BE COORDINATED WITH
- 9. SUBMIT SHOP DRAWINGS FOR REINFORCEMENT DETAILING, BENDING, AND PLACING OF CONCRETE REINFORCEMENT.
- 10. FOR ALL CONCRETE SUFFACES WHERE LEGS OF SUPPORT DEVICES ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS THAT ARE STAINLESS STEEL (CRSI, CLASS2).

 11. ALL CONCRETE SHALL BE WET CURED FOR A MINIMUM OF 3 DAYS.
- 12. PROVIDE CONCRETE TESTING OF CONCRETE MATERIAL CONFIRMING DESIGN STRENGTHS

TIEBEACK:

TYPE I, GRADE I SCHEDULE 40 PVC, CONFORMING TO SECTION 948 OF FDOT "STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 2010".

2. GREASE: GREAD:
MEET REQUIREMENTS OF SECTION 3.2.5 OF THE POST TENSIONING INSTITUTE SPECIFICATION
FOR UMBONDED SINGLE STRAND TENDONS, PER SECTION 451 OF FDOT "STANDARD
SPECIFICATIONS FOR RADD & BRIDGE CONSTRUCTION, 2010".

- SUBMIT TO ENGINEER FOR REVIEW, COMPLETE DETAILS AND SPECIFICATION OF THE PROPOSED PILES AND A WRITTEN STATEMENT DESCRIBING THE EQUIPMENT TO BE USED.
 INSTALL PILES/SHEET PILES TO —11.8' NAVD.
 REPRESENTATIVE FROM ARDAMAN & ASSOCIATES, INC. TO BE PRESENT DURING PILE

- INSTALLATION TO PROVIDE THE NECESSARY ENGINEERING DOCUMENTATION OF PILE CAPACITIES. NO STRUCTURAL CONCRETE SHALL BE POURED AT PILES WHERE DOCUMENTATION HAS NOT BEEN SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- REMOVE EXISTING DOCK STRUCTURE, SEAWALL, RAMP, PLUMBING, AND ELECTRICAL COMPONENTS AND DISPOSE OF LEGALLY.

- THE DOCK WAS DESIGNED TO CARRY A LIVE LOAD OF 40 PS.
 PROVIDE THE FOLLOWING MISCELLANEOUS ACCESSORIES, PROVIDE PRODUCT DATA SHEET FOR OWNER REVIEW AND
 ACCEPTANCE PRIOR TO PURCHASE AND INSTALLATION. ALL ATTACHMENT FASTENERS SHALL BE OF STAINLESS STEEL
 MATERIAL. (CONICAL PILING CAPS, CONCRETE PILE RUB RAILS. REFER TO HIGHLAND SHORES BOAT RAMP FACILITY AT 3535 SHORE DRIVE, ELLENTON FLORIDA). PROVIDE 1/4" DEEP x 1/4" WIDE GROOVES IN RAMP SLAB AT 1/2" O/C. TEXTURE IS A MINIMUM PROFILE. CONTRACTOR TO PROVIDE MEANS AND METHODS OF TEXTURE INSTALLATION W/ BID. ALL ITEMS SHALL BE IN BASE BID, HOWEVER, SINCE SPECIFIED MODELS HAVE
 NOT BEEN SELECTED BY OWNER, CONTRACTOR SHALL PROVIDE ALLOWANCE FIGURE AND PRODUCT DATA ASSOCIATED
 WITH SAID ALLOWANCE WITH BID.
 7. CONTRACTOR TO ADHERE TO THE FOLLOWING INSTALLATION TOLERANCES:
- - A CONCRETE SHEET PILE: OUT OF PLANE PLUMBNESS 1/8" IN 4".

 B. CONCRETE SHEET PILE: IN PLANE PLUMBNESS INTERLOCK SEPARATION 1/2" MAXIMUM.

 C. STRAIGHTINESS OF CONCRETE SHEETPILE LINE 1/4" IN 4".

 D. TOP OF SHEETPILE ELEVATION ±1/2".
- 8. FILTER FABRIC SHALL CONFORM TO FDOT SPECIFICATION STANDARD INDEX 199, US 230 (WOVEN).

FRAMING NOTES:

- 1. CONNECTIONS, MATERIALS AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH CHAPTER 17, WOOD CONSTRUCTION, OF THE MOST RECENT STANDARD BUILDING CODE AND THE TIMBER CONSTRUCTION MANUAL BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) OR SOUTHERN PINE INSPECTION BUREAU (SPIB). MOISTURE CONTENT SHALL NOT BE MORE THAN 19% AT THE TIME OF INCORPORATION INTO STRUCTURE.
- 2. ALL STRINGER MATERIAL SHALL BE #1 SOUTHERN PINE FRAMING (UNLESS NOTED OTHERWISE). AS DESCRIBED IN THE SPIB GRADING RULES.
- 3. IF STANDARDS FOR WOOD PRODUCTS TREATMENT IS NOT CONSISTENT W/ THE FOLLOWING, THE LATEST
- 4. PROCESS FOR PRESERVATIVE TREATMENT SHALL BE IN CONFORMANCE TO THE AMERICAN WOOD PRESERVER'S

- PROCESS FOR PRESERVATIVE TREATMENT SHALL BE IN CONFORMANCE TO THE AMERICAN WOOD PRESERVER'S
 ASSOCIATION (AWPA) STANDARDS C2-90, C9-91, AND C18-91.
 THE PURCHASE, INSPECTION, AND HANDLING OF ALL NEW WOOD MATERIAL SHALL BE IN CONFORMANCE W/ THE
 APPLICABLE SECTIONS OF THE AWPA STANDARDS MI, MZ, AND M4, LATEST EDITION.
 THE CONTRACTOR SHALL PROVIDE A LETTER(S) FROM AN EXPERIENCED INSPECTOR(S) QUALIFIED IN THE RESPECTIVE
 FIELD, THAT THE WOOD PRODUCTIS, PRESERVATIVES, AND TREATMENT, MEET THE SPECIFICATIONS AND THAT THE
 METHODS AND FACILITIES OF PRODUCTION CONFORM W/ THE APPLICABLE AWPA STANDARDS OF RECOMMENDED PRACTICE.
 AN INSPECTIORS TAG/STAMP SHALL BE REQUIRED ON EACH PIECE OF ACCEPTED MATERIAL WHEN SAID MATERIAL AND AND ALL BE PLACED ON THOSE PIECES CONFORMING TO ALL STAGES OF PROCESSING. THE
 INSPECTION TAG/STAMP SHALL BE HAND AND MATERIAL WHILL MINTIL ENVIRENCE OF COMPUTATION TAG/STAMP SHALL BE PLACED ON THOSE PIECES CONFORMING TO ALL STAGES OF PROCESSING. THE
 INSPECTION TAG/STAMP SHALL BE MADERIAL AS A MINIMULTURAL MATERIAL WHEN SAID MATERIAL WAS A MINIMULTURAL MATERIAL MATERI
- INSPECTION TAG/STAMP SHALL REMAIN ON MATERIAL, AS A MINIMUM, UNTIL ENGINEER-OF-RECORD HAS VERIFIED MATERIAL.

 8. STEP-BY-STEP WORK SHEETS <u>ARE REQUIRED</u> FOR USE IN RECORDING PRESERVATIVE ANALYSIS AND RETENTION ASSAYS.

 REFER TO SECTION 7.0 OF AWPA STANDARDS MY FOR MORE INFO.

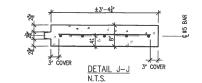
 9. ALL COMMENTS WITHIN THE AWPA STANDARDS STATED AS AN OPTION SHALL BE INTERPRETED BY THE CONTRACTOR AS A SPECIFIC
- REQUIREMENTS OF THESE DOCUMENTS. BRANDS SHALL BE IN ACCORDANCE WITH AWPA MG AND SHALL BE PLACED CLEARLY AND PERMANENTLY ON EACH STRINGER. MEMBERS SHALL BE BRANDED AT A MAXIMUM OF 6"-0" O/C.
 TREATED MATERIAL SHALL NOT BE DRAGGED ALONG THE GROUND.
- 12. PRIOR TO USE, TREATED MATERIAL SHALL BE STACKED ON TREATED OR NON-DECAYING SKIDS OF SUCH DIMENSIONS AND SO ARRANGED
- AS TO SUPPORT THE MATERIAL WITHOUT PRODUCING NOTICEABLE DISTORTION.

 13. ALL TREATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER SO THAT THERE IS AIR SPACE BENEATH THE MATERIAL.
- 14. STORAGE AREAS SHALL BE FREE OF DEBRIS, DECAYED WOOD AND DRY VEGETATION (FIRE HAZARD) AND SHALL HAVE SUFFICIENT DRAINAGE TO PREVENT WOOD PRODUCTS FROM BEING SUBJECTED TO STANDING WATER

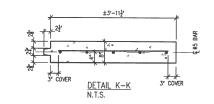
- 15. ALL CUTS, HOLES, AND INJURIES OF THE SURFACE OF TREATED MATERIAL SHALL BE FIELD-PROTECTED BY THOROUGHLY SATURATING ALL AREAS WITH A FIELD-TREATING SOLUTION PRIOR TO ERECTION AND PLACEMENT OF FASTENERS.

 16. COPPER NAPHTENATE SOLUTIONS SHALL BE USED AS FIELD TREATMENTS. THE PRESERVATIVE SOLUTION SHALL BE PREPARED BY BLENDING COPPER NAPHTENATE PRESERVATIVE MEETING AWPA STANDARD P9. THE SOLUTION SHALL GOVERN METAL.
- 17. ALL UNUSED BORE HOLES AND NAIL HOLES SHALL BE POURED FULL OF PRESERVATIVE AND PLUGGED WITH TICHT-FITTING TREATED
- PLUGS OF THE SAME MATERIAL.

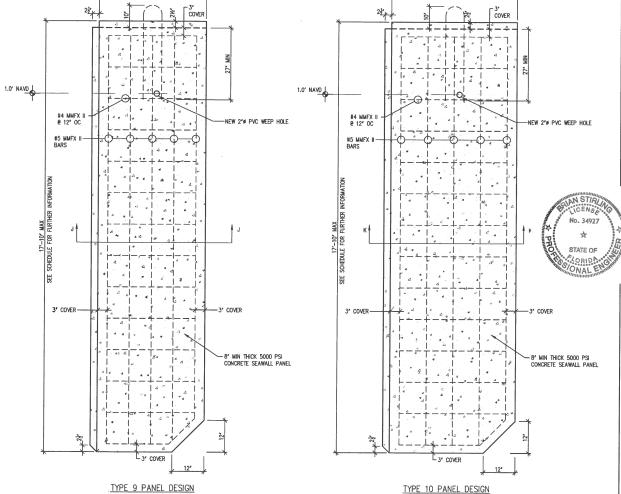
 18. ALL DIMENSIONS SHOWN ON THE PLAN SHALL BE FIELD VERIFIED PRIOR TO FABRICATION/ERECTION.
- 19. ALL FASTENER HOLES SHALL BE PRE-DRILLED AND TREATED PRIOR TO INSTALLATION OF FASTENERS.



NOTE: MINOR CHANGES TO PANEL WIDTH WILL OCCUR ALONG LENGTH OF SEAWALL CONTRACTOR TO SUBMIT SHOP DRAWNOS FOR REVIEW BY ENGINEER DETAILING ALL REQUIRED SIZES. CONTRACTOR TO MAINTAIN EQUAL OR GREATER VERTICAL REINFORCEMENT



NOTE: MINOR CHANGES TO PANEL WIDTH WILL OCCUR ALONG LENGTH OF SEAWALL CONTRACTOR TO SUBMIT SHOP DRAWNGS FOR REVEW BY ENGINEER DETAILING ALL REQUIRED SIZES. CONTRACTOR TO MAINTAIN EQUAL OR GREATER VERTICAL REINFORCEMENT



STIRLING & WILBUR **ENGINEERING GROUP**



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PROJECT NAME

NORTH COQUINA **BOAT RAMP** MANATEE COUNTY, FL

CONSTRUCTION 12-21-15

PROJECT NUMBER

S2013-103

BRIAN STIRLING, PE 34927

VISIONS

DRAWN BY

PLOT SCALE AS NOTED THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

STRUCTURAL NOTES AND DETAILS

SHEET NUMBER