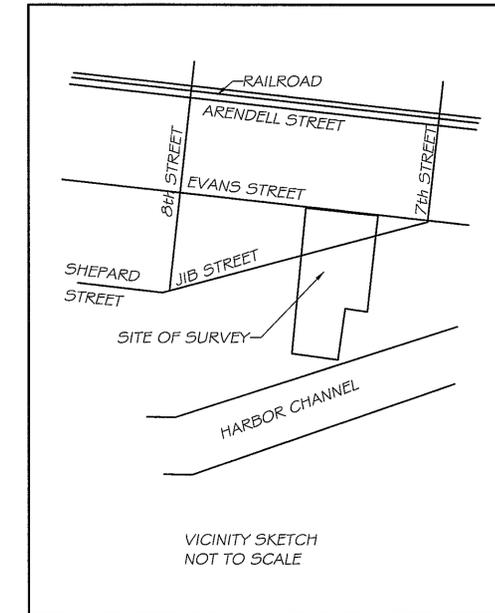


"JIB" PROPERTY WATERFRONT AMENITY PHASE II

OTTIS' LANDING

705 & 707 SHEPARD STREET
MOREHEAD CITY, NC 28557

OWNER: TOWN OF MOREHEAD CITY
706 ARENDELL STREET
MOREHEAD CITY, NC 28557



INDEX TO DRAWINGS:

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GD-001	APPENDIX "B"
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E-001	ELECTRICAL PLAN
E-002	ELECTRICAL PLAN ALT. 1
E-003	ELECTRICAL RISER AND DETAILS

MK CHALK
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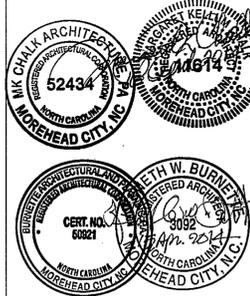
CONSULTANTS:
BURNETTE ARCHITECTURE & PLANNING
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NEAL W. ANDREW, P.E.
WILMINGTON, NC

SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY

Morehead City, NC 28557

PHASE II

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 15 APRIL 2014

CHECK BY: MKC

DRAWN BY: MKD & LNS

SCALE: AS NOTED

OTTIS'
LANDING

TS-001

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 & 2 FAMILY DWELLINGS & TOWNHOUSES)

NAME OF PROJECT: JIB WATERFRONT AMENITY, PHASE II - OTTIS' LANDING
ADDRESS: 705 & 707 SHEPARD STREET, MOREHEAD CITY, NC ZIP CODE: 28557
PROPOSED USE: WATERFRONT RECREATION & WATER ACCESS
OWNER/AUTHORIZED AGENT: M. K. CHALK ARCHITECTURE, PA PHONE #: (252) 726-3099 EMAIL: mkcarchitect@cc.rr.com
OWNED BY: TOWN OF MOREHEAD CITY CITY/COUNTY: MOREHEAD CITY PRIVATE: STATE:
CODE ENFORCEMENT JURISDICTION: CITY MOREHEAD CITY COUNTY CARTERET STATE

LEAD DESIGN PROFESSIONAL: MK CHALK ARCHITECTURE, PA
DESIGNER: FERM NAME: Maggie Chalk LICENSE: 11614 TELEPHONE: (252) 726-3099 EMAIL: mkcarchitect@cc.rr.com
ARCHITECTURAL: MK CHALK ARCHITECTURE, PA CIVIL: Stroud Engineering Mike Stroud 21990 (252) 756-9352 msdroudstrouden@stroudeng.com
ELECTRICAL: Stroud Engineering Mike Stroud 21990 (252) 756-9352 msdroudstrouden@stroudeng.com
FIRE ALARM: N/A
PLUMBING: Stroud Engineering Mike Stroud 21990 (252) 756-9352 msdroudstrouden@stroudeng.com
MECHANICAL: Stroud Engineering Mike Stroud 21990 (252) 756-9352 msdroudstrouden@stroudeng.com
SPRINKLER/STANDPIPE: N/A
STRUCTURAL: Andrew Consulting Engineers, P.C. Neil Andrew 23591 (910) 202-5555 neal@andrewengineers.com
RETAINING WALLS - 5' HIGH: N/A
OTHER: Burnette Architecture and Planning Ken Burnette 3092 (252) 726-5387 burnettearch@embarqmail.com

2012 EDITION OF NC CODE FOR: RECONSTRUCTION ADDITION UPFIT
EXISTING: ALTERATION REPAIR RENOVATION
CONSTRUCTED (DATE): _____ ORIGINAL USE(S) (CH. 3): _____
RENOVATED (DATE): _____ CURRENT USE(S) (CH. 3): _____
PROPOSED USE(S) (CH. 3): _____

BASIC BUILDING DATA

CONSTRUCTION TYPE: (CHECK ALL THAT APPLY) I-A I-B II-A II-B III-A III-B IV V-A V-B
SPRINKLERS: NO PARTIAL YES CLASS I II III IV V WET DRY
STANDPIPES: NO YES (PRIMARY) YES (SECONDARY)
FIRE DISTRICT: NO YES
BUILDING HEIGHT: FEET 22'

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
5TH FLOOR			
4TH FLOOR			
3RD FLOOR			
2ND FLOOR			
MEZZANINE			
1ST FLOOR	0	813 (ENCLOSED TOILETS)	813
	0	5215 (OPEN AIR)	5215
	0	669 (STAIRS & RAMP)	669
TOTAL	0	6697	6697

ALLOWABLE AREA

OCCUPANCY: ASSEMBLY A-1 A-2 A-3 A-4 A-5
BUSINESS
EDUCATIONAL
FACTORY F-1 MODERATE F-2 LOW
HAZARDOUS H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
INSTITUTIONAL I-1 I-2 I-3 I-4 I-5
MERCANTILE
RESIDENTIAL R-1 R-2 R-3 R-4
STORAGE S-1 MODERATE S-2 LOW HIGH-PILED
UTILITY AND MISCELLANEOUS OPEN ENCLOSED REPAIR GARAGE

INCIDENTAL USES (TABLE 508.2.5): (NONE)
 FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
 ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
 REFRIGERANT MACHINE ROOM
 HYDROGEN OUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
 INCINERATOR ROOMS
 PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
 LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN A GROUP E OR I-2 OCCUPANCY
 LAUNDRY ROOMS OVER 100 SQUARE FEET
 GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES
 GROUP I-2 WASTE AND LINEN COLLECTION ROOMS
 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET
 STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR ALUMINIUM CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
 ROOMS CONTAINING FIRE PUMPS
 GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET
 GROUP I-2 COMMERCIAL KITCHENS
 GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
 GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT

SPECIAL USES: (NONE) 402 403 404 405 406 407 408 409 410 411 412
 413 414 415 416 417 418 419 420 421 422 423 424
 425 426 427

SPECIAL PROVISIONS: (NONE) 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9

MIXED OCCUPANCY: NO YES SEPARATION: _____ HR. EXCEPTION: _____
 INCIDENTAL USE SEPARATION (508.2.5)
THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).

NON-SEPARATED USE (508.3)
THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
 SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS
FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1.00$$

STORY NO	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
1	PUBLIC DECK	6697	UL	N/A	N/A	UL	UL

- FRONTAGE AREA INCREASES FROM SECTION 508.2 AREA COMPUTED THIS:
 - PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FT MIN. WIDTH = _____ (F)
 - TOTAL BUILDING PERIMETER = _____ (P)
 - RATIO (F/P) = _____ (F/P)
 - IF = MINIMUM WIDTH OF PUBLIC WAY = _____ (W)
 - PERCENT OF FRONTAGE INCREASE = $100 [(F/P) - 0.25] \times W / 30 =$ _____ (%)
- THE SPRINKLER INCREASE PER SECTION 508.3 IS AS FOLLOWS:
 - MULTI-STORY BUILDING $I_p = 200$ PERCENT
 - SINGLE STORY BUILDING $I_p = 300$ PERCENT
- UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTIONS (507).
- MAXIMUM BUILDING AREA - TOTAL NUMBER OF STORIES IN THE BUILDING $\times F$ (508.4)
- THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.

ALLOWABLE HEIGHT

TYPE OF CONSTRUCTION	TYPE	5-B	TYPE	5-B	602.5
BUILDING HEIGHT IN FEET	UL	FEET = H + 20'	N/A	22' (ROOF PEAK)	T. 503
BUILDING HEIGHT IN STORES	1	STORES + 1	N/A	STORES	T. 503

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RECO	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	>10	0	0				
BEARING WALLS							
EXTERIOR							
NORTH	>30	0	0				
EAST	>10	0	0				
WEST	>10	0	0				
SOUTH	>30	0	0				
INTERIOR							
NONBEARING WALLS AND PARTITIONS							
EXTERIOR WALLS							
NORTH	>30	0	0				
EAST	>10	0	0				
WEST	>10	0	0				
SOUTH	>30	0	0				
INTERIOR WALLS & PARTITIONS	N/A	0	0				
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST	N/A	0	0				
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST	N/A	0	0				
SHAFT ENCLOSURES - EXIT							
SHAFT ENCLOSURES - OTHER							
CORRIDOR SEPARATION							
OCCUPANCY SEPARATION							
PARTY/FIRE WALL SEPARATION							
SMOKE BARRIER SEPARATION							
TENANT SEPARATION							
INCIDENTAL USE SEPARATION							

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO YES (TOILETS)
EXIT SIGNS: NO YES (TOILETS)
FIRE ALARM: NO YES
SMOKE DETECTION SYSTEMS: NO YES PARTIAL
PANIC HARDWARE: NO YES

LIFE SAFETY PLAN REQUIREMENTS (OPEN DECK/ NOT APPLICABLE)

- LIFE SAFETY PLAN SHEET #:
- FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
 - ASSUMED AND REAL PROPERTY LINE LOCATIONS
 - EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.6)
 - EXISTING STRUCTURES WITHIN 20' OF PROPOSED BUILDING
 - OCCUPANT TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)
 - OCCUPANT LOADS FOR EACH AREA
 - EXIT ACCESS TRAVEL DISTANCES (1016)
 - COMMON PATH OF TRAVEL DISTANCES (1014.3 & 1028.8)
 - DEAD END LENGTHS (1018.4)
 - CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
 - MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
 - ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
 - A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOORCEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANT SEPARATION
 - LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10)
 - LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.8.7)
 - LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.5.9)
 - LOCATION OF DOORS EQUIPPED WITH HOLD OPEN DEVICES
 - LOCATION OF EMERGENCY ESCAPE WINDOWS (1029)
 - THE SQUARE FOOTAGE OF EACH FIRE AREA (1002)
 - THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4)
 - NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (NOT APPLICABLE)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (EXISTING)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH # ACCESSIBLE	15' ACCESSIBLE	# ACCESSIBLE	
N/A	N/A					
TOTAL						

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS:
WIND (I_p) 1.15
SNOW (I_s) 1.10
SEISMIC (I_e) 1.25

LIVE LOADS:
ROOF 20 PSF
MEZZANINE N/A PSF
FLOOR 100 PSF
GROUND SNOW LOAD: 10 PSF

WIND LOAD:
BASIC WIND SPEED 135 MPH (ASCE-7)
EXPOSURE CATEGORY C
WIND BASE SHEARS (FOR MWFRS) $V_p =$ 54 K $V_p =$ 33 K (DECK)

SEISMIC DESIGN CATEGORY A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 1604.5) I II III IV
SPECTRAL RESPONSE ACCELERATION $S_s =$ 15.10 % $S_1 =$ 6.30 %
SITE CLASSIFICATION (TABLE 1613.3.2) A B C D E F
DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE):
 BEARING WALL DUAL W/SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM

SEISMIC BASE SHEAR ANALYSIS PROCEDURE SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO NOT REQUIRED

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) FIELD TEST N/A PSF
PRESUMPTIVE BEARING CAPACITY _____ PSF
PILE SIZE, TYPE, AND CAPACITY _____

SPECIAL INSPECTIONS REQUIRED: YES NO

PLUMBING FIXTURE REQUIREMENTS (NOT APPLICABLE)

SPACE	USE	WATERCLOSETS			LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	1	2	REGULAR		ACCESSIBLE	
		EXISTING*	3	4	1	3		3	0
NEW	2	5	2	2	2	0	1	1	
REQUIRED	3	4	1	2	2	0	1	1	

* EXISTING: INDICATES EXISTING PUBLIC TOILETS WITHIN APPROXIMATELY 500-FEET.

SPECIAL APPROVALS

SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHS, ICC, ETC., DESCRIBE BELOW)

TOWN OF MOREHEAD CITY

ENERGY SUMMARY

NATURAL VENTILATION (NOT HEATED/ COOLED)

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS. ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

CLIMATE ZONE: 3 4 5

METHOD OF COMPLIANCE:

- PRESCRIPTIVE (ENERGY CODE)
- PERFORMANCE (ENERGY CODE)
- PRESCRIPTIVE (ASHRAE 90.1)
- PERFORMANCE (ASHRAE 90.1)

THERMAL ENVELOPE

ROOFCEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____
R-VALUE OF INSULATION _____
SKYLIGHTS IN EACH ASSEMBLY
U-VALUE OF SKYLIGHT _____
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY _____

EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____
R-VALUE OF INSULATION _____
OPENINGS (WINDOWS OR DOORS WITH GLAZING)
U-VALUE OF ASSEMBLY _____
SOLAR HEAT GAIN COEFFICIENT _____
PROJECTION FACTOR _____
DOOR R-VALUES _____

WALLS BELOW GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____
R-VALUE OF INSULATION _____

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____
R-VALUE OF INSULATION _____

FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____
R-VALUE OF INSULATION _____
HORIZONTAL/VERTICAL REQUIREMENT
SLAB HEATED _____

MECHANICAL SUMMARY (REFER TO MECHANICAL DRAWINGS)

MECHANICAL SYSTEM, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE 3A
WINTER DRY BULB: N/A
SUMMER DRY BULB: N/A

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB: N/A
SUMMER DRY BULB: N/A
RELATIVE HUMIDITY: N/A

BUILDING HEATING LOAD: N/A
BUILDING COOLING LOAD: N/A

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
DESCRIPTION OF UNIT: N/A
HEATING EFFICIENCY: N/A
COOLING EFFICIENCY: N/A
SIZE CATEGORY OF UNIT: N/A

BOILER
SIZE CATEGORY, IF OVERSIZED, STATE REASON: N/A

CHILLER
SIZE CATEGORY, IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES N/A

ELECTRICAL SUMMARY (REFER TO ELECTRICAL DRAWINGS)

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
ENERGY CODE PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1 PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE SEE SCHEDULE ON SHEET E-003
NUMBER OF LAMPS IN FIXTURE SEE SCHEDULE ON SHEET E-003
BALLAST TYPE USED IN FIXTURE SEE SCHEDULE ON SHEET E-003
NUMBER OF BALLASTS IN FIXTURE SEE SCHEDULE ON SHEET E-003
TOTAL WATTAGE PER FIXTURE SEE SCHEDULE ON SHEET E-003
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) 610W SPECIFIED / 630W ALLOWED
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 324W SPECIFIED / 600W ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- 506.2.2 REDUCED LIGHTING POWER DENSITY
- 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
- 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
- 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
- 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

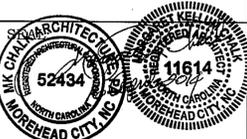
CONSULTANTS:

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NEAL W. ANDREW, P.E.
WILMINGTON, NC



REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

PHASE II

APPROVED BY OWNER _____ DATE _____

APPROVED BY OWNER _____ DATE _____

CONSULTANTS:
BURNETTE ARCHITECTURE & PLANNING
ASSOCIATE ARCHITECT
MEP ENGINEERING
STROUD ENGINEERING
L. MICHAEL STROUD, P.E.
GREENVILLE, NC &
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WILMINGTON, NC

SEAL:

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

PHASE II

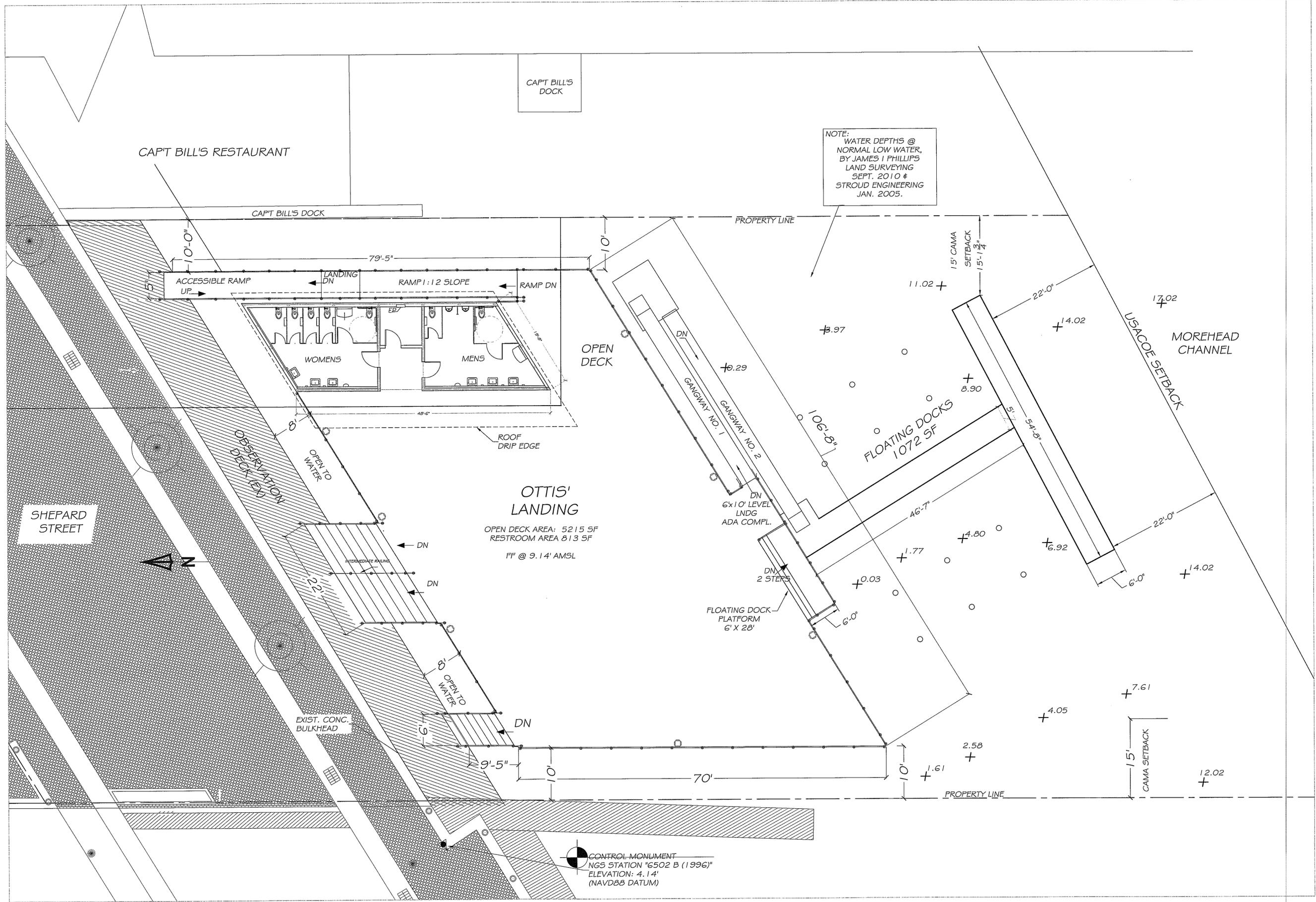
APPROVED BY OWNER _____ DATE _____

APPROVED BY OWNER _____ DATE _____

DATE: 15 APRIL 2014
CHECK BY: MKC
DRAWN BY: LNS
SCALE: AS NOTED

OTTIS' LANDING PH II ARCHITECTURAL SITE PLAN

AS-100



NOTE:
WATER DEPTHS @
NORMAL LOW WATER,
BY JAMES I PHILLIPS
LAND SURVEYING
SEPT. 2010 &
STROUD ENGINEERING
JAN. 2005.

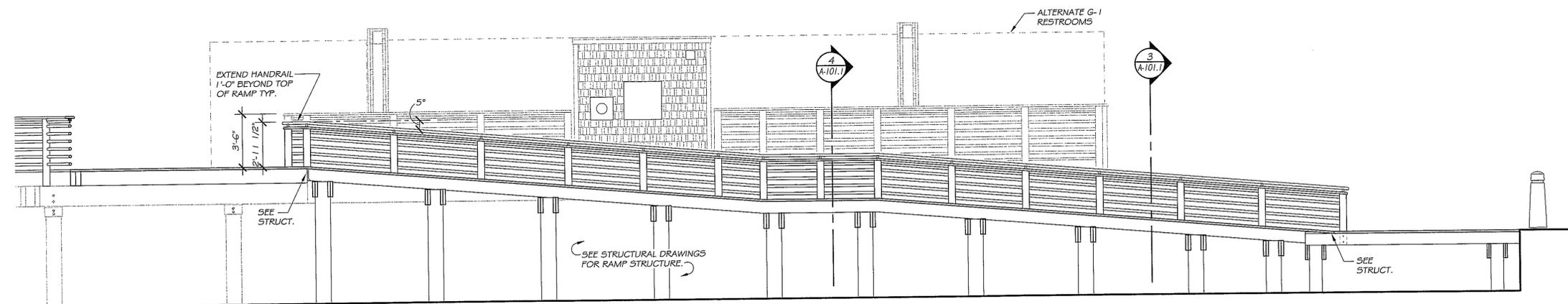
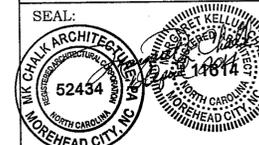
OTTIS' LANDING ARCHITECTURAL SITE PLAN
SCALE: 1/8" = 1'-0"

CONSULTANTS:
BURNETTE ARCHITECTURE & PLANNING
ASSOCIATE ARCHITECT

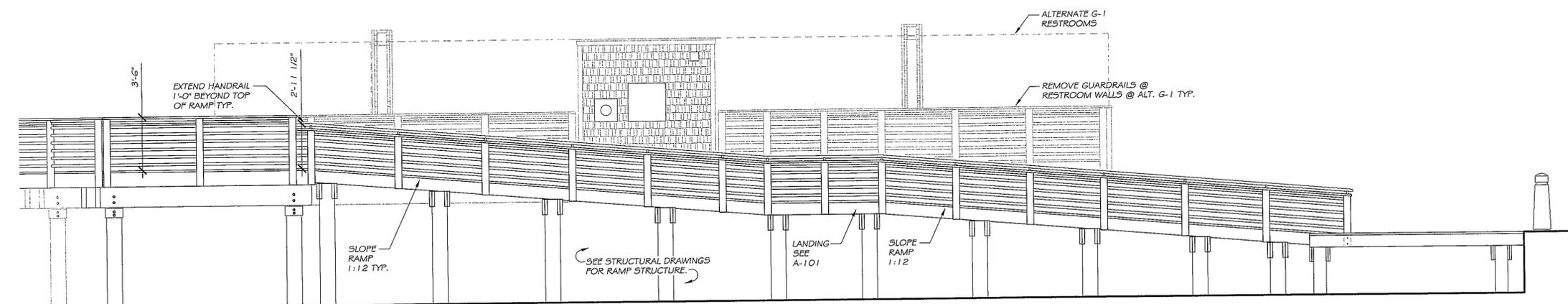
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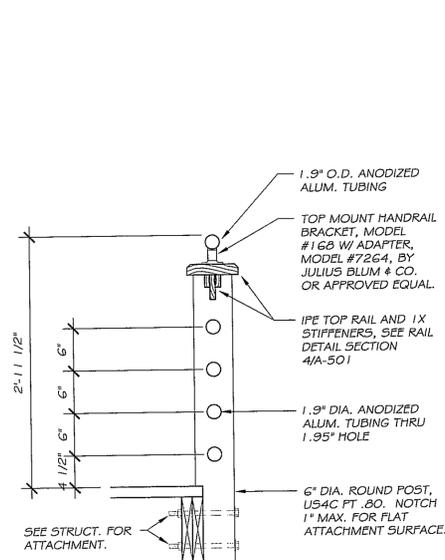
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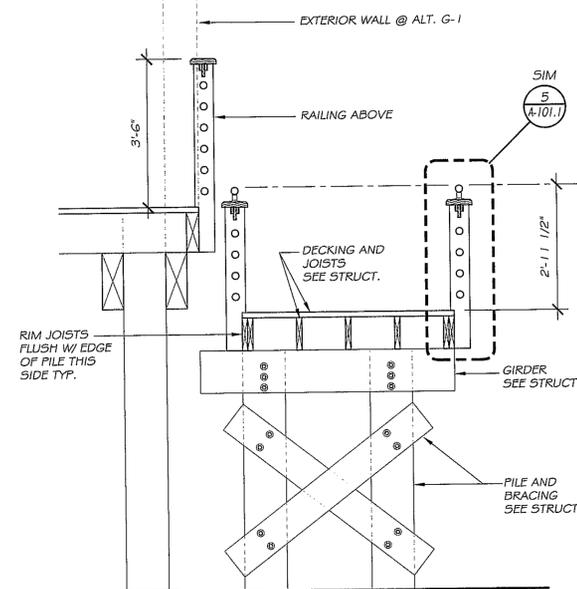
2 RAMP ELEVATION
A-101.1 SCALE: 1/4" = 1'-0"



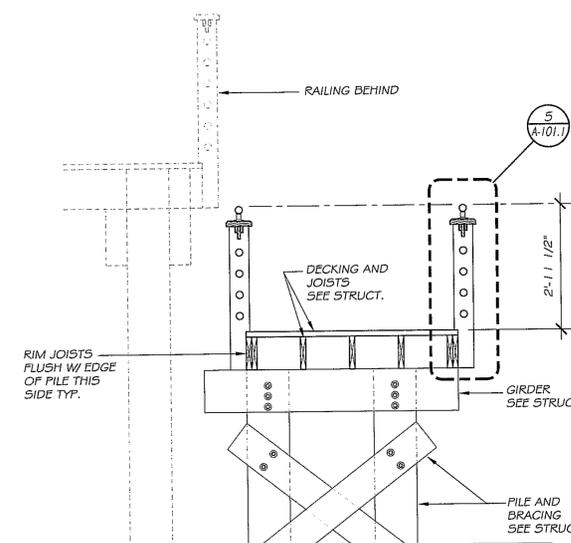
1 RAMP ELEVATION
A-101.1 SCALE: 1/4" = 1'-0"



5 HANDRAIL SECTION
A-101.1 SCALE: 1" = 1'-0"



4 RAMP SECTION
A-101.1 SCALE: 1/2" = 1'-0"



3 RAMP SECTION
A-101.1 SCALE: 1/2" = 1'-0"

ALUMINUM HANDRAIL NOTES

1. ALUMINUM HAND RAILS SHALL BE SCHEDULE 40, ANODIZED CLEAR ALUMINUM, NON-WELDED ASSEMBLIES, WITH SIZES AS INDICATED ON THE DRAWINGS, AS MANUFACTURED BY JULIUS BLUM & CO., WAGNER, BLUMKRAFT OF PITTSBURGH, OR APPROVED EQUAL.
2. ELBOWS SHALL BE FABRICATED TO PROVIDE RAIL CONFIGURATIONS AS INDICATED ON THE DRAWINGS.
3. PROVIDE ROUNDED, SEMI-SPHERICAL END CAPS AT OPEN END RAIL TERMINATIONS.
4. ALL FASTENERS AND JOINING MECHANISMS SHALL BE ALUMINUM OR OTHER COMPATIBLE NON-CORROSIVE MATERIAL.
5. ALL HANDRAILS SHALL BE ADA COMPLIANT AND SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS OF THE N.C. BUILDING CODE.
6. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, INDICATING RAILING SIZES, LOCATIONS, CONFIGURATIONS, BRACKETS, ALIGNMENTS, ATTACHMENT, ELBOWS, END CAPS, METHODS OF ATTACHMENT, AND OTHER INFORMATION AS MAY BE NECESSARY TO DESCRIBE THE FINAL PRODUCT INSTALLED.

REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE II

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 15 APRIL 2014

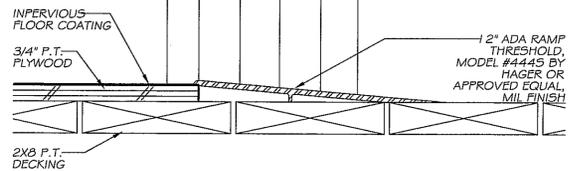
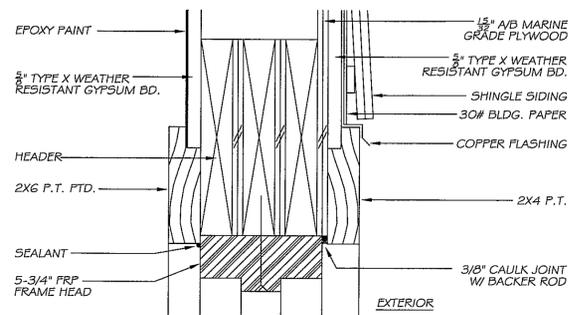
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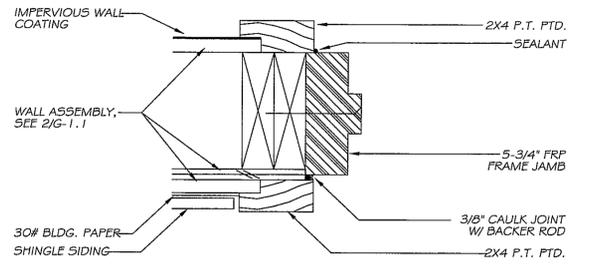
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OTTIS' LANDING
RAMP
ELEVATIONS
AND DETAILS

A-101.1



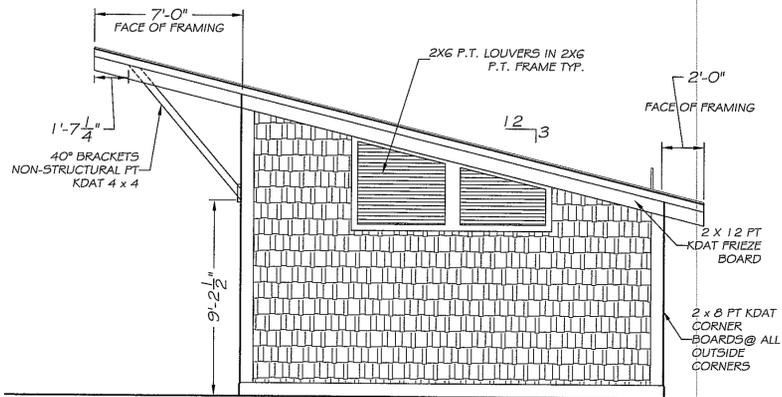
8 DOOR THRESHOLD HEAD & SILL
TYP. @ MEN'S & WOMEN'S RESTROOMS
SCALE: 3" = 1'-0"



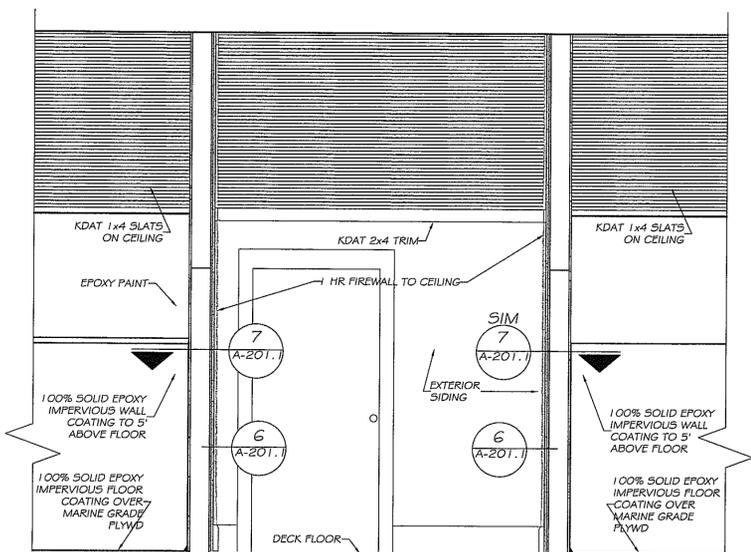
9 TYP. DOOR JAMB
SCALE: 3" = 1'-0"



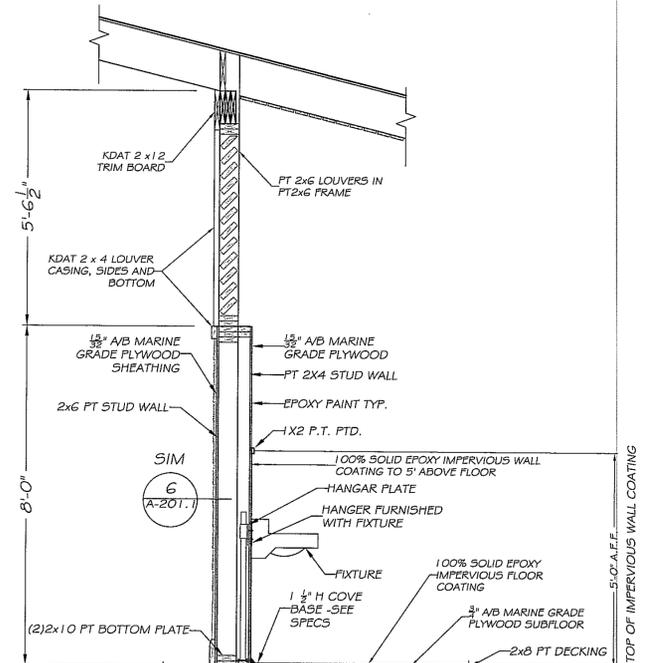
1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



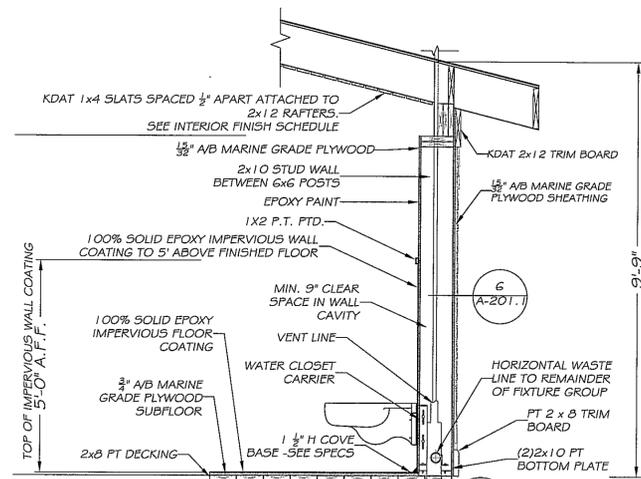
2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



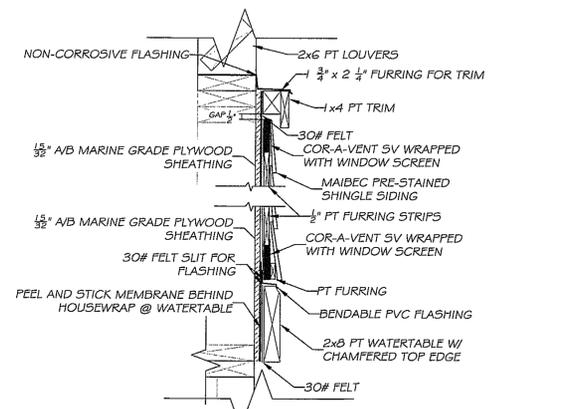
3 FIRE WALL SECTION
SCALE: 1/2" = 1'-0"



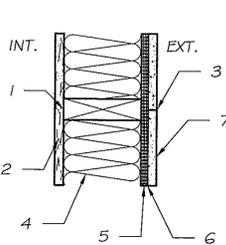
4 WEST WALL SECTION
SCALE: 1/2" = 1'-0"



5 EAST WALL SECTION
SCALE: 1/2" = 1'-0"



6 TYPICAL SHINGLE SIDING DETAIL
SCALE: 1 1/2" = 1'-0"



7 UL 303 1-HR FR WALL ASSEMBLY
SCALE: NTS

SYSTEM DESCRIPTION
WOOD STUD EXTERIOR (LOAD BEARING) WALL

- 2" x 6" P.T. STUDS @ 16" O.C., EFFECTIVELY CROSS BRACED
- 5/8" USG SECUROCK Brand GLASS-MAT - FIRECODE CORE (TYPE 3) Gypsum Panel INSTALLED ROUGH SIDE OUT HORIZONTALLY WITH VERTICAL JOINTS CENTERED OVER STUDS. HORIZONTAL JOINTS NEED NOT BE BACKED BY FRAMING, FASTENED TO STUDS AND PLATES WITH 1 1/2" TYPE W S.S. SCREWS @ 7" O.C. OR 1 1/4" TYPE W S.S. SCREWS @ 8" O.C. MAX, LAST SCREW 1" FROM EDGE OF BOARD.
- JOINTS - WHEN TAPERED EDGE GYPSUM BOARD IS USED ALL JOINTS COVERED WITH USG JOINT COMPOUND AND USG JOINT TAPE. WHEN SQUARE-EDGE GYPSUM BOARD IS USED, TREATMENT OF JOINTS IS OPTIONAL.
- R-19 FIBERGLASS INSULATION BATTS FRICTION FIT BETWEEN STUDS
- 1 1/2" A/B MARINE GRADE PLYWOOD SHEATHING, EXTERIOR SIDE. 4" WIDE APPLIED VERTICALLY WITH VERTICAL JOINTS CENTERED OVER STUDS FASTENED WITH 1 1/4" S.S. WALLS 6" O.C. AT THE PERIMETER AND 12" O.C. IN THE FIELD. SHEATHING FULLY COVERED WITH WEATHER RESISTIVE BARRIER.
- 30# FELT, WEATHER RESISTIVE BARRIER
- 5/8" USG Securock Glass-Mat Sheathing GYPSUM WALLBOARD (SQUARE EDGES STANDARD) EXTERIOR SIDE, INSTALLED HORIZONTALLY WITH VERTICAL JOINTS CENTERED OVER STUDS. ALL JOINTS OFFSET MIN 12" FROM UNDERLYING SHEATHING JOINTS. FASTEN TO STUDS AND PLATES WITH S.S. 2 1/4" CHAMFERED, RIBBED WATER HEAD SCREWS WITH A MIN HEAD DIAMETER OF .400" OR 2 1/4" S.S. ROOFING NAILS SPACED 8" O.C.

System Performance
1 HR Fire
UL Design No. U303

MK CHALK ARCHITECTURE, PA
P.O. Box 622
Morehead City, NC 28557

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MOREHEAD CITY, NC
ENGINEERING CONSULTANT
W.F. PARKER, P.E.
CAPE HARTLET, NC
MARINE STRUCTURAL & STRUCTURAL
ENGINEERING
ANDREW CONSULTING ENGINEERS
JOHN "ROD" ANDREW, P.E.
NEAL W. ANDREW, P.E.
WILMINGTON, NC



REVISIONS:

NO.	DESCRIPTION

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

PHASE II

APPROVED BY OWNER DATE
APPROVED BY OWNER DATE

DATE: 15 APRIL 2014
CHECK BY: MKC
DRAWN BY: MKD
SCALE: VARIES

OTTIS' LANDING RESTROOM DETAILS
BID ALT G-1

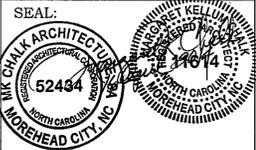
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CONSULTANTS:
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ASSOCIATE ARCHITECT

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REVISIONS:

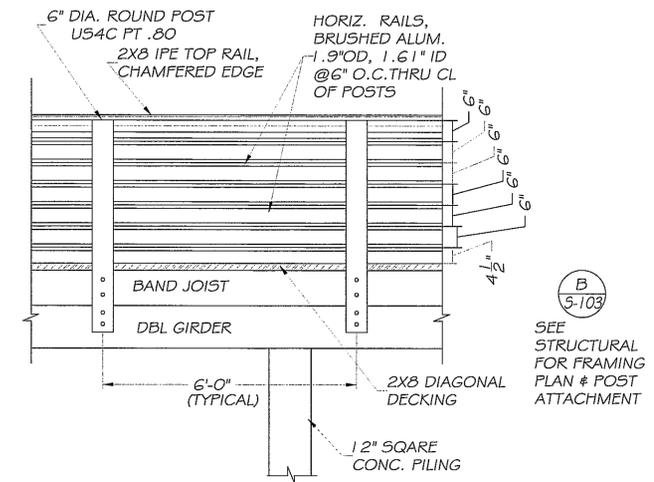
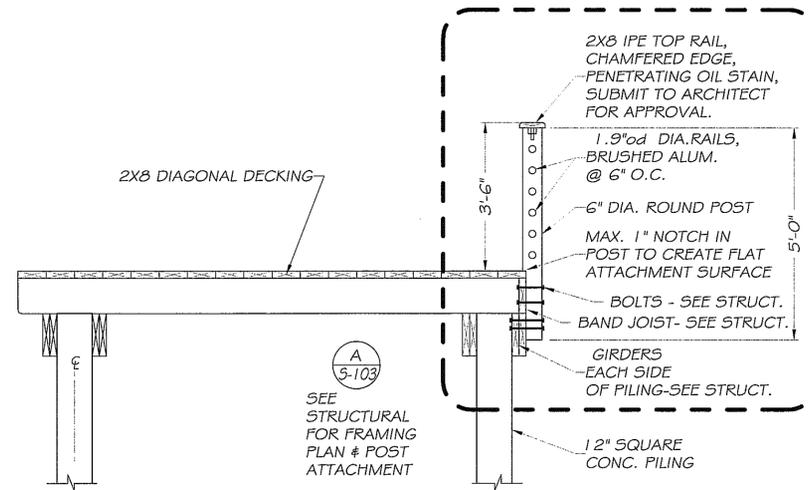
"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

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APPROVED BY OWNER DATE
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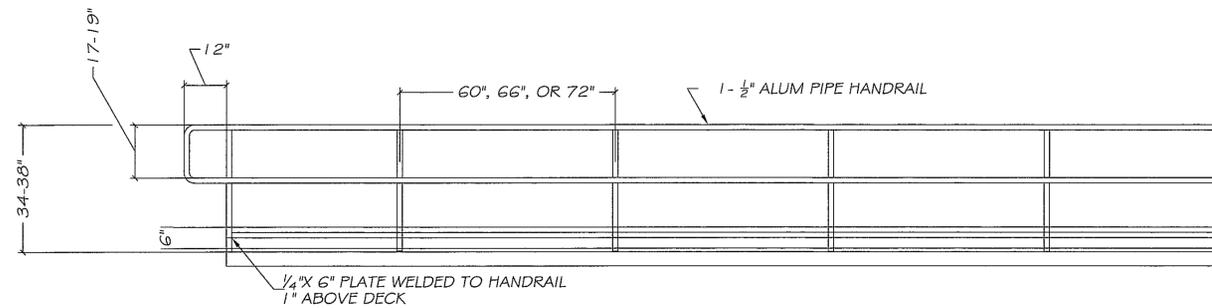
DATE: 15 APRIL 2014
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SCALE: 1/8"=1'-0"

OTTIS' LANDING FLOATING DOCKS
BID ALT G-2

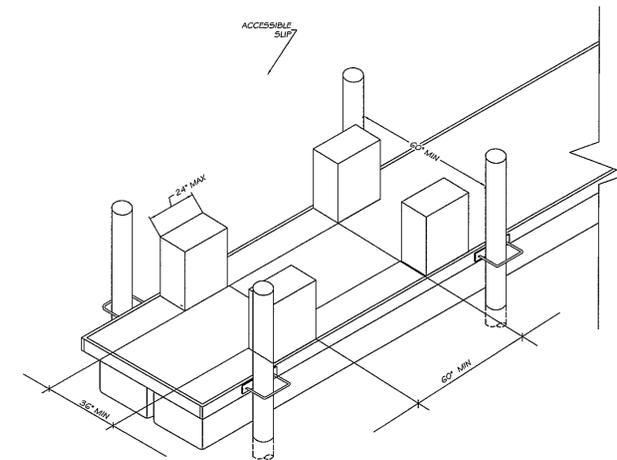
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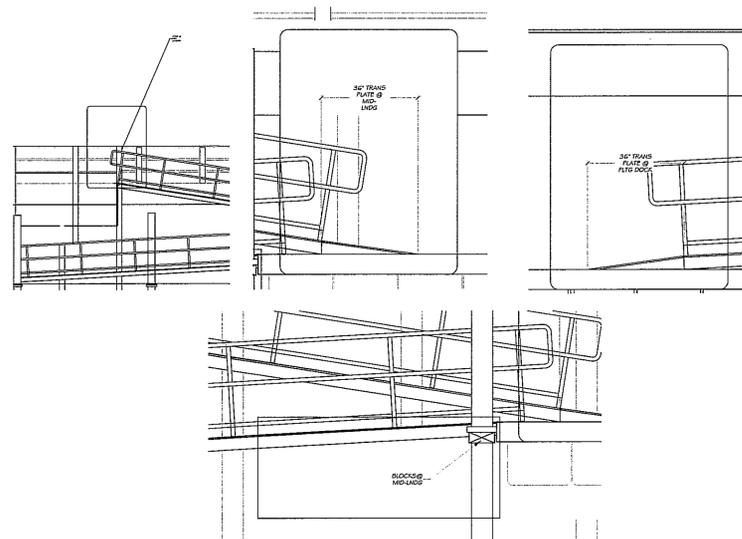
1 OTTIS LANDING FLOATING DOCKS PLATFORM GUARDRAIL DESIGN
SCALE: 1/2" = 1'-0"



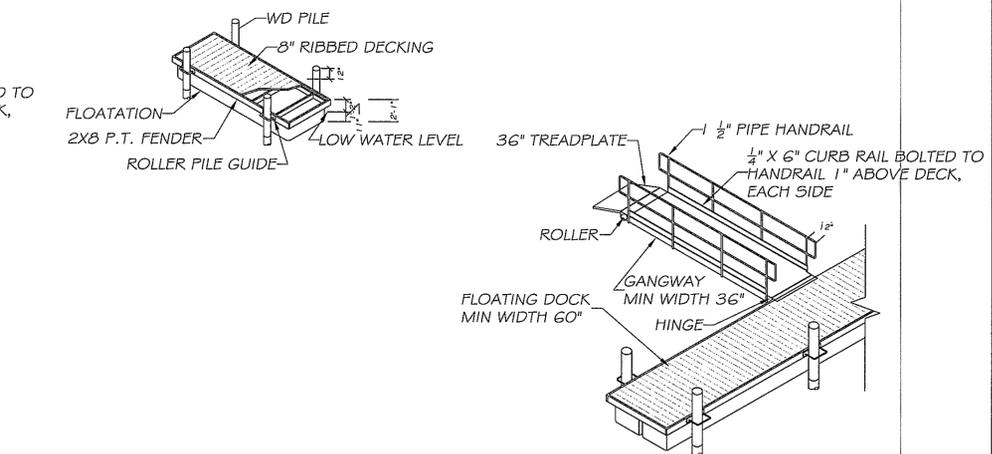
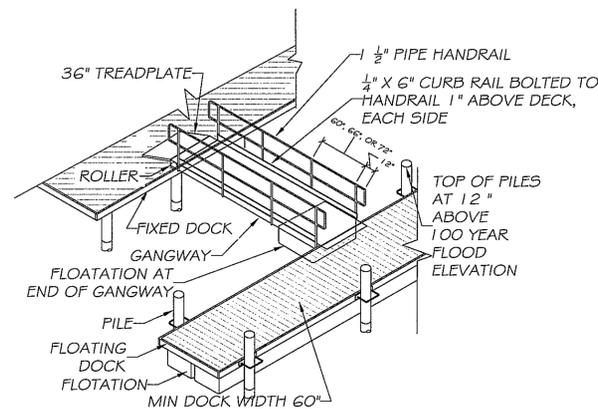
2 OTTIS LANDING FLOATING DOCKS TYPICAL GANGWAY RAILING
SCALE: 1/2" = 1'-0"



3 FLOATING DOCK ADA REQUIRED CLEARANCES
SCALE: 1/4" = 1'-0"



4 FLOATING DOCKS TYPICAL DETAILS
SCALE: 3/8" = 1'-0"



5 FLOATING DOCKS - TYP
SCALE: 1/8" = 1'-0"

STRUCTURAL NOTES

GENERAL:

- THESE STRUCTURAL NOTES ARE AN INTEGRAL PART OF THE STRUCTURAL DRAWINGS AND ARE TO BE USED IN CONJUNCTION WITH THE JOB SPECIFICATIONS. WHEN THERE ARE NO SPECIFICATIONS IN ADDITION TO THESE NOTES THE NOTES SHALL GOVERN. WHEN THERE IS A SPECIFICATION IN ADDITION TO THE NOTES THE MORE STRINGENT OF THE TWO SHALL GOVERN.
- BUILDING CODE: 2012 NC BUILDING CODE (2009 IBC WITH NC AMENDMENTS)
- CONTRACTOR VERIFY ALL DIMENSIONS AND DETAILS AT JOB SITE.
- U.N.O. MEANS "UNLESS NOTED OTHERWISE".
- ALL SPECIFICATIONS REFER TO LATEST EDITION.
- ALL WORK TO COMPLY WITH NC STATE BUILDING CODE LATEST EDITION.
- STRUCTURAL FRAME TO BE BRACED UNTIL ERECTION IS COMPLETE. DESIGN BASED ON CONCENTRICALLY BRACED FRAMES.
- THIS BUILDING WAS DESIGNED USING WIND PRESSURE COEFFICIENTS FOR AN ENCLOSED STRUCTURE. THEREFORE ALL WINDOWS, DOORS, AND OTHER OPENINGS MUST BE RATED TO MEET THE APPLICABLE WIND PRESSURES ASSOCIATED WITH THE LOCATION OF THIS BUILDING.
- THE CONTRACTOR SHALL COORDINATE THIS PROJECT WITH ALL ADJACENT CONSTRUCTION PROJECTS AS REQUIRED.

ENVIRONMENTAL CONSIDERATIONS:

- DURING CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT ITS OPERATIONS IN SUCH A MANNER TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE SOUND FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SOUND. HE SHALL NOT RETURN DIRECTLY TO THE SOUND ANY WATER WHICH CAUSE THE SOUND OR OCEAN TO BECOME POLLUTED WITH SILT, CEMENT, OIL, OR OTHER IMPURITIES.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL. NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. DEVICES SHALL BE USED TO CATCH THE MATERIAL IF THE ENGINEER IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- CONTRACTOR TO INSTALL SEDIMENT CURTAIN AS SPECIFIED ON CIVIL DRAWINGS, IF APPLICABLE.

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (W): 1.15
 SNOW (S): 1.10
 SEISMIC (I): 1.25

LIVE LOADS: ROOF: 20 PSF
 DECK: 100 PSF

GROUND SNOW LOAD: 10 PSF
 FLAT ROOF SNOW LOAD: 13 PSF
 SNOW EXPOSURE CATEGORY: 0.9
 SNOW IMPORTANCE FACTOR: 1.10
 THERMAL FACTOR: 1.0

WIND LOAD: BASIC WIND SPEED: 135 MPH (ASCE 7-05)
 EXPOSURE CATEGORY: C
 WIND BASE SHEARS (MWFRS): Vx = 54k Vy = 33k
 INTERNAL PRESSURE COEFFICIENT: +/- 0.55

WALL COMPONENT & CLADDING WIND LOAD SCHEDULE		
ZONE	TRIBUTARY AREA	
	10FT²	500FT²
4 NEGATIVE	-61 PSF	-50 PSF
5 NEGATIVE	-72 PSF	-58 PSF
4 & 5 POSITIVE	57 PSF	48 PSF

ZONE 5 PRESSURES APPLY UP TO 4'-0" FROM ALL BUILDING CORNERS.

SEISMIC DESIGN CATEGORY: A B C D

BUILDING OCCUPANCY CATEGORY: III
 SPECTRAL RESPONSE ACCELERATION Ss 15.10%g Sd 6.30%g
 SITE CLASSIFICATION: E FIELD TEST PRESUMPTIVE HISTORICAL DATA

SPECTRAL RESPONSE COEFFICIENTS: Sds 0.252g Sd1 0.146g

BASIC STRUCTURAL SYSTEM:
 BEARING WALL DUAL w/ SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM

SEISMIC RESPONSE COEFFICIENT Cs = 0.063

RESPONSE MODIFICATION FACTOR R = 5.0

SEISMIC BASE SHEAR: Vx = 23k Vy = 23k

ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE MODAL

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? NOT REQ'D

LATERAL DESIGN CONTROL: WIND: Vx & Vy

SOIL BEARING CAPACITIES:

FIELD TEST: N/A

MISCELLANEOUS:

- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING AND/OR WALLS AGAINST WIND, CONSTRUCTION LOADS AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.
- DIMENSIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE ENGINEER OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE FLOOR PLANS, SECTIONS, AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION SAFETY: THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ALL FLASHING AND WATERPROOFING DETAILS.

STRUCTURAL STEEL:

- ALL WORK TO CONFORM TO:
 AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS LATEST EDITIONS.
- STRUCTURAL STEEL:
 A. A36 FOR MISCELLANEOUS STEEL.
- WELDING ELECTRODES - E-70 SERIES.
- ALL WELDS SHALL BE MADE BY CERTIFIED WELDERS OF AWS FOR TYPE OF WELD REQUIRED.
- SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

FOUNDATIONS:

- SEE GEOTECHNICAL EXPLORATION REPORT PREPARED BY ECS CAROLINAS. ECS REPORT #22.18246 DATED NOV. 20, 2012.
- SEE ECS GEOTECHNICAL EXPLORATION REPORT FOR ADDITIONAL INFORMATION REGARDING EXISTING SUBSURFACE CONDITIONS THAT CAN BE EXPECTED TO BE ENCOUNTERED.

TIMBER AND MISCELLANEOUS:

- PLATFORM MATERIAL

	S.Y. PINE GRADE	SURFACE	MOISTURE CONTENT	AWPA STD AND CCA RETENTION
POSTS	NO. 2	S4S	ADAT/KDAT19	UC4B(0.24)
DECKING	NO. 2	S4S	ADAT/KDAT19	UC4B(0.24)
JOISTS	NO. 2	S4S/S2E	S-DRY 19	C2/C18(2.5)
GIRDERS	NO. 2	ROUGH	S-DRY 19	C2/C18(2.5)
CROSS BRACE	MARINE NO. 1/NO.2	ROUGH	S-DRY 19	C2/C18(2.5)

- ALL HARDWARE, NAILS, AND SCREWS SHALL BE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE. NAIL SIZES AND NUMBER ARE NOT SHOWN. INSTALL ACCORDING TO 2012 NC BUILDING CODE SECTION 2304.8.1. USE COMMON NAILS ONLY.
- PROVIDE TREATMENT CERTIFICATES ON ALL LUMBER BY AN INDEPENDENT 3RD PARTY INSPECTOR AWPB OR SPIB APPROVED AND SUBJECT TO APPROVAL BY ENGINEER.
- ALL WOOD MATERIALS SHALL HAVE FIELD CUTS TREATED WITH KOPPERS #50.
- COUNTER SINK BOLT HEADS WHERE EXPOSED ON OUTBOARD FACE OF DECK.
- USE O.G. WASHER OR 1/4" HEAVY PLATE WASHERS UNDER ALL BOLTS AND NUTS.
- SCREW DECK TO JOISTS WITH STAINLESS STEEL SCREWS.

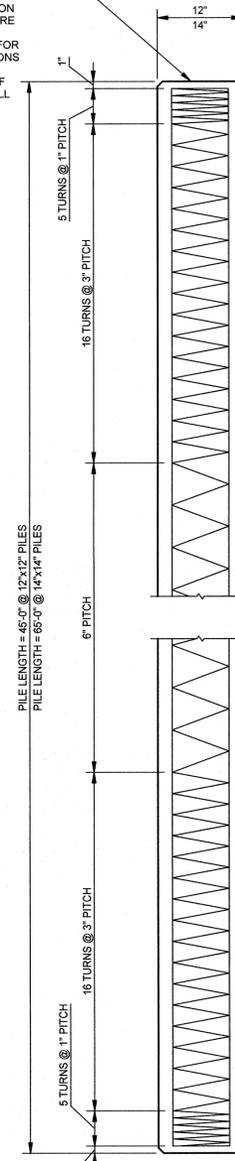
CONCRETE PILING: SEE PLAN FOR LENGTH

- PRESTRESSED PRECAST CONCRETE PILING SHALL BE 12"x12" AND 14"x14" AND MEET REQUIREMENTS OF ACI 543 AND ACI 318 STANDARDS.
- DRIVE 12"x12" PILING TO 15 TON CAPACITY. DRIVE 14"x14" PILING TO 33 TON CAPACITY. PILES ARE TO BE PLACED PER THE NORTH CAROLINA STATE BUILDING CODE 2012 EDITION AND CMAA REQUIREMENTS USING AN ENGINEER APPROVED RATED HAMMER.
- PILES WILL BE TESTED USING A PILE DRIVING ANALYZER (PDA). TEST 12"x12" PILING TO 30 TON ULTIMATE COMPRESSION LOAD. TEST 14"x14" PILING TO 66 TON ULTIMATE COMPRESSION LOAD.

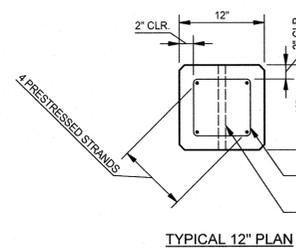
TIMBER PILING:

- TIMBER PILES SHALL MEET REQUIREMENTS OF ASTM D25 AND THE NORTH CAROLINA BUILDING CODE 2012 EDITION FOR SOUTHERN YELLOW PINE CLASS B OR APPROVED EQUAL.
 TIMBER PILES TO BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) C3 STANDARD WITH CHROMATED COPPER ARSENATE (CCA) TO 2.5 lbs/cf NET RETENTION.
- DRIVE PILES AS NECESSARY TO OBTAIN A DESIGN CAPACITY OF 5 TONS (BEARING) AND 2 TONS (LIFT). IF PILE REACHES REJECTION BEFORE THE MINIMUM ELEVATION, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IN WRITING.
 PILES ARE TO BE PLACED PER THE NORTH CAROLINA STATE BUILDING CODE 2012 EDITION AND CMAA REQUIREMENTS USING AN ENGINEER APPROVED RATED HAMMER.
- THE OWNER IS RESPONSIBLE FOR RETAINING THE GEOTECHNICAL COMPANY OF RECORD TO LOG AND INSPECT THE INSTALLATION OF ALL PILING AND UPON COMPLETION OF THE PILE DRIVING OPERATION TO ISSUE A CERTIFICATION BY THE GEOTECHNICAL ENGINEER OF RECORD THAT PILING HAS BEEN INSTALLED IN ACCORDANCE WITH THE DESIGN AS REQUIRED BY THE BUILDING CODE.

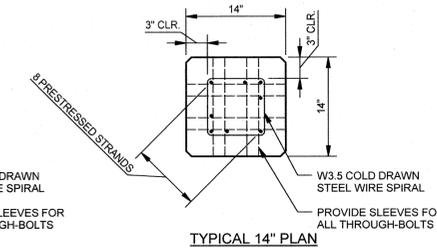
SEE OTTIS' LANDING FLOOR FRAMING PLAN FOR LOCATIONS WHERE TOPS OF PILES ARE TO BE DESIGNED TO SUPPORT AND ACCOMMODATE ATTACHMENT OF FUTURE GLULAM PAVILION ROOF COLUMNS. SEE FUTURE GLULAM PAVILION ROOF COLUMN LOAD SCHEDULE FOR DESIGN LOADS. SEE SECTIONS AND DETAILS FOR SIZE, QUANTITY, AND SPACING OF SLEEVES REQUIRED FOR ALL THROUGH-BOLTS.



ELEVATION



TYPICAL 12" PLAN



TYPICAL 14" PLAN

NOTES:

CONCRETE DESIGN DATA: fc = 6,000 PSI w/ CORROSION INHIBITOR ADMIXTURE FOR SALT WATER IMMERSION.

IMPACT IN HANDLING = 50%

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE PILE SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,500 PSI.

IN INSTALLING THE PILES, A METHOD APPROVED BY THE ENGINEER SHALL BE USED, WHEREBY THE HEAD OF THE PILE IS NOT DAMAGED.

DEVICES FOR LIFTING PILES SHALL BE APPROVED BY THE ENGINEER. LOOPS OF STRANDS CAST IN THE PILES WILL NOT BE PERMITTED. INSERTS, CAST IN THE PILES TO RECEIVE THREADED EYE-BOLTS OR SIMILAR APPROVED DEVICES, MAY BE USED. OR WHERE IT IS PRACTICABLE, SATISFACTORY CLAMPS OR SLINGS MAY BE USED. WHERE INSERTS ARE CAST IN THE PILES, THE OPENINGS SHALL BE REPAIRED AFTER THE EYE-BOLTS OR OTHER ATTACHMENTS HAVE BEEN REMOVED. THE OPENINGS SHALL BE REPAIRED IN A SATISFACTORY MANNER IN ORDER TO OBTAIN A UNIFORM APPEARANCE.

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO ASTM A-416 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY, AT HIS OPTION, USE EITHER OF THE THREE TYPES OF STRAND LISTED BELOW FOR 12"x12" PILES:

SIZE	GRADE	NUMBER OF STRANDS	AREA	ULTIMATE STRENGTH	APPLIED PRE-STRESS FORCE
7/16"	270 L.R.	6	0.115	31,000 # PER STRAND	21,700 # PER STRAND
1/2"	270 L.R.	5	0.153	41,300 # PER STRAND	30,980 # PER STRAND
1/2"	270 L.R.	4	0.153	41,300 # PER STRAND	30,980 # PER STRAND

THE CONTRACTOR MAY, AT HIS OPTION, USE EITHER OF THE TWO TYPES OF STRAND LISTED BELOW FOR 14"x14" PILES:

SIZE	GRADE	NUMBER OF STRANDS	AREA	ULTIMATE STRENGTH	APPLIED PRE-STRESS FORCE
1/2"	270 L.R.	8	0.153	41,300 # PER STRAND	30,980 # PER STRAND
1/2" (SPECIAL)	270 L.R.	8	0.153	41,300 # PER STRAND	30,980 # PER STRAND

THE SLIP-FORM METHOD OF CASTING PILES WILL NOT BE PERMITTED

IF STRAND STRESS IS RELIEVED BY BURNING, THE STRANDS SHALL BE BURNED IN PAIRS, EXCEPT WHERE 5 STRANDS ARE USED THE LAST STRAND MAY BE BURNED SINGLY, ACCORDING TO BURNING PATTERNS SHOWN. NOT MORE THAN 4 STRANDS MAY BE BURNED AT ANY ONE SECTION BEFORE THE SAME STRANDS ARE BURNED AT BOTH ENDS OF THE BED AND BETWEEN EACH PAIR OF PILES IN THE BED.

BUILD-UPS SHALL BE "CLASS A" CONCRETE WITH 20% ADDITIONAL CEMENT. NO DRIVING OF THE BUILD-UP PILE WILL BE PERMITTED UNTIL THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF 3,000 PSI AND UNTIL A PERIOD OF SEVEN DAYS HAS ELAPSED SINCE CASTING OF THE BUILD-UP.

ALL CORNERS TO BE CHAMFERED 3/4"

WHERE CAST-IN-PLACE LIFTING DEVICES ARE NOT USED, PICK-UP POINTS TO BE INDICATED WITH A BLACK MARK 2" WIDE.

NOTE: PROVIDE CAST IN PLACE SLEEVES FOR ALL THROUGH-BOLTS.

PRESTRESSED CONCRETE PILE DETAILS

- NOTE:
 1. SEE PLAN FOR REQUIRED PILE SIZE AT PILE LOCATIONS.

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 MOREHEAD CITY, NC

ENGINEERING CONSULTANT
 W.F. PARKER, P.E.
 CAPE CARTARET, NC

MARINE STRUCTURAL & STRUCTURAL
 ENGINEERING
 ANDREW CONSULTING ENGINEERS
 JOHN "ROD" ANDREW, P.E.
 NEAL W. ANDREW, P.E.
 WILMINGTON, NC
 NC PE FIRM LICENSE C-2461

SEAL:



REVISIONS:

NO.	DESCRIPTION

**"JIB" PROPERTY WATERFRONT AMENITY
 Morehead City, NC 28557
 PHASE II**

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 15 APRIL 2014

CHECK BY: NWA

DRAWN BY: KMN

SCALE: AS NOTED

OTTIS' LANDING STRUCTURAL NOTES

S-101

REVISIONS:

NO.	DESCRIPTION	DATE

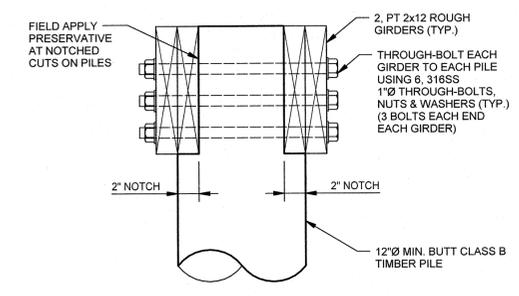
"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557
PHASE II

APPROVED BY OWNER DATE _____
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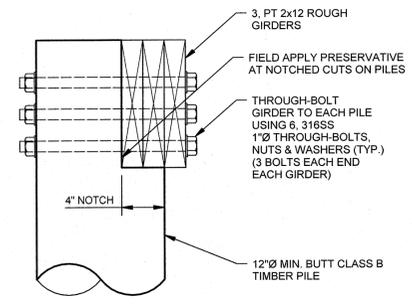
DATE: 15 APRIL 2014
CHECK BY: NWA
DRAWN BY: KMN
SCALE: AS NOTED

OTTIS' LANDING STRUCTURAL DETAILS

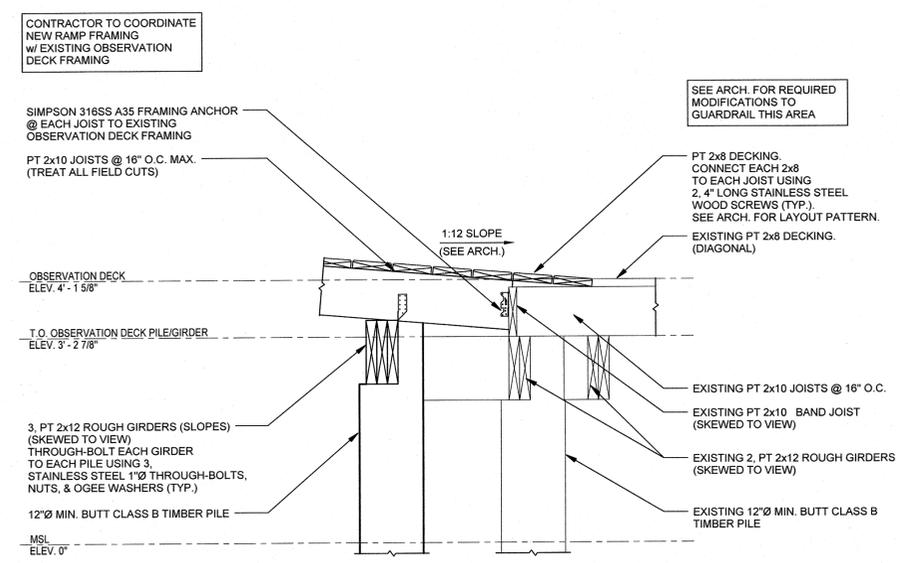
S-104



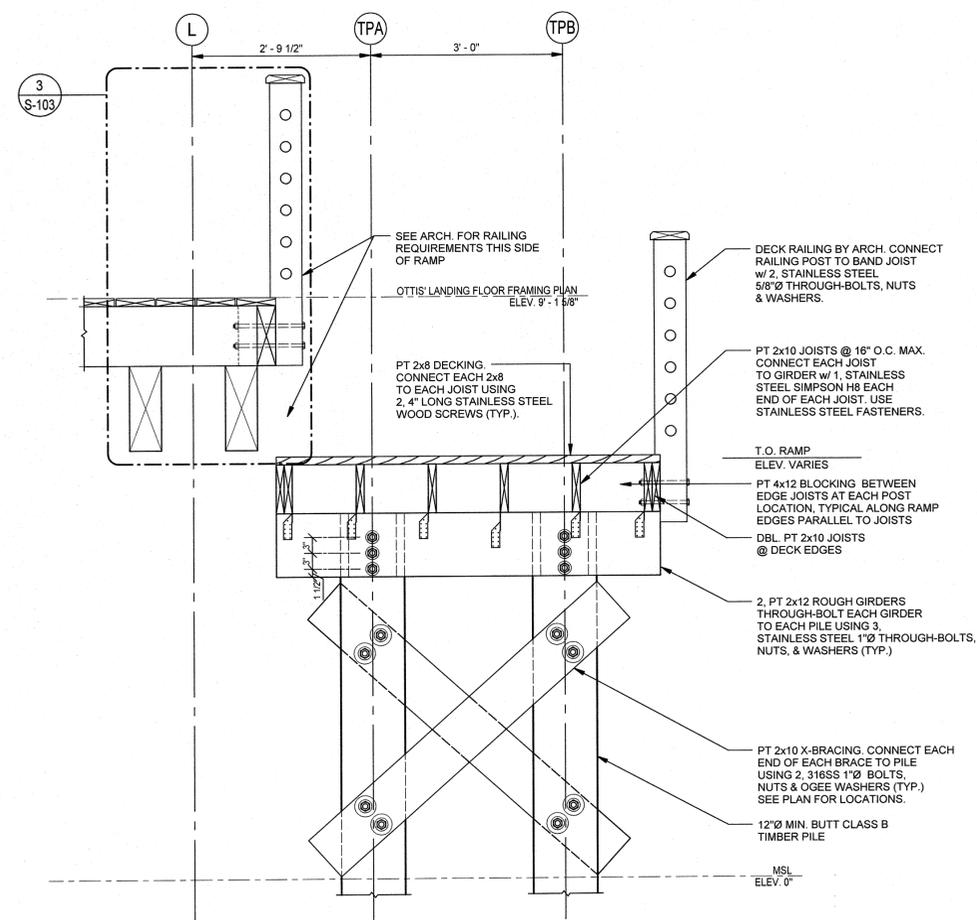
A GIRDER TO TIMBER PILE CONNECTION (DOUBLE) DETAIL
S-104 1/2" = 1'-0"



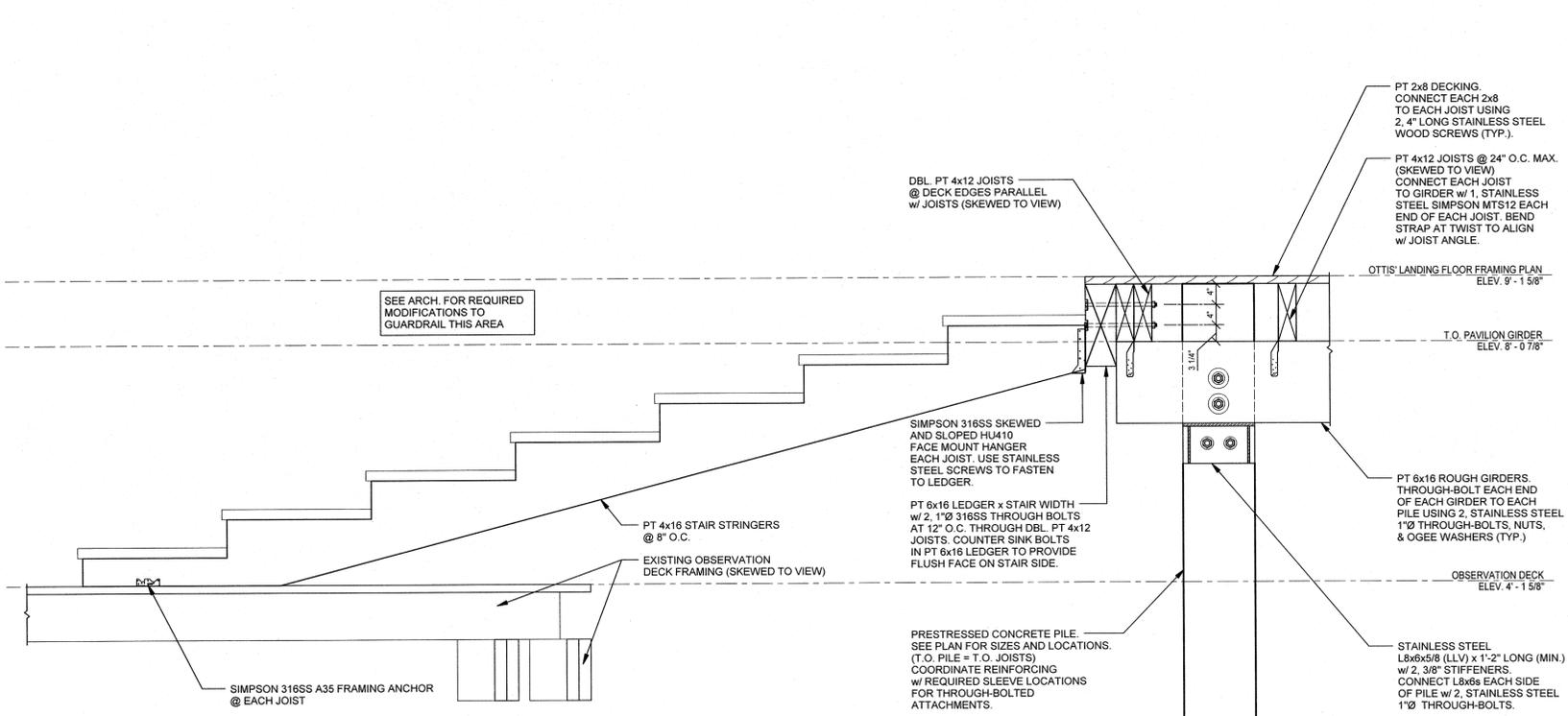
B GIRDER TO TIMBER PILE CONNECTION (SINGLE) DETAIL
S-104 1/2" = 1'-0"



1 SECTION
S-104 3/4" = 1'-0"



2 SECTION
S-104 3/4" = 1'-0"



3 SECTION
S-104 3/4" = 1'-0"

CONSULTANTS:

BURNETTE ARCHITECTURE & PLANNING
ASSOCIATE ARCHITECT

MEP ENGINEERING
STROUD ENGINEERING
L. MICHAEL STROUD, P.E.
GREENVILLE, NC &
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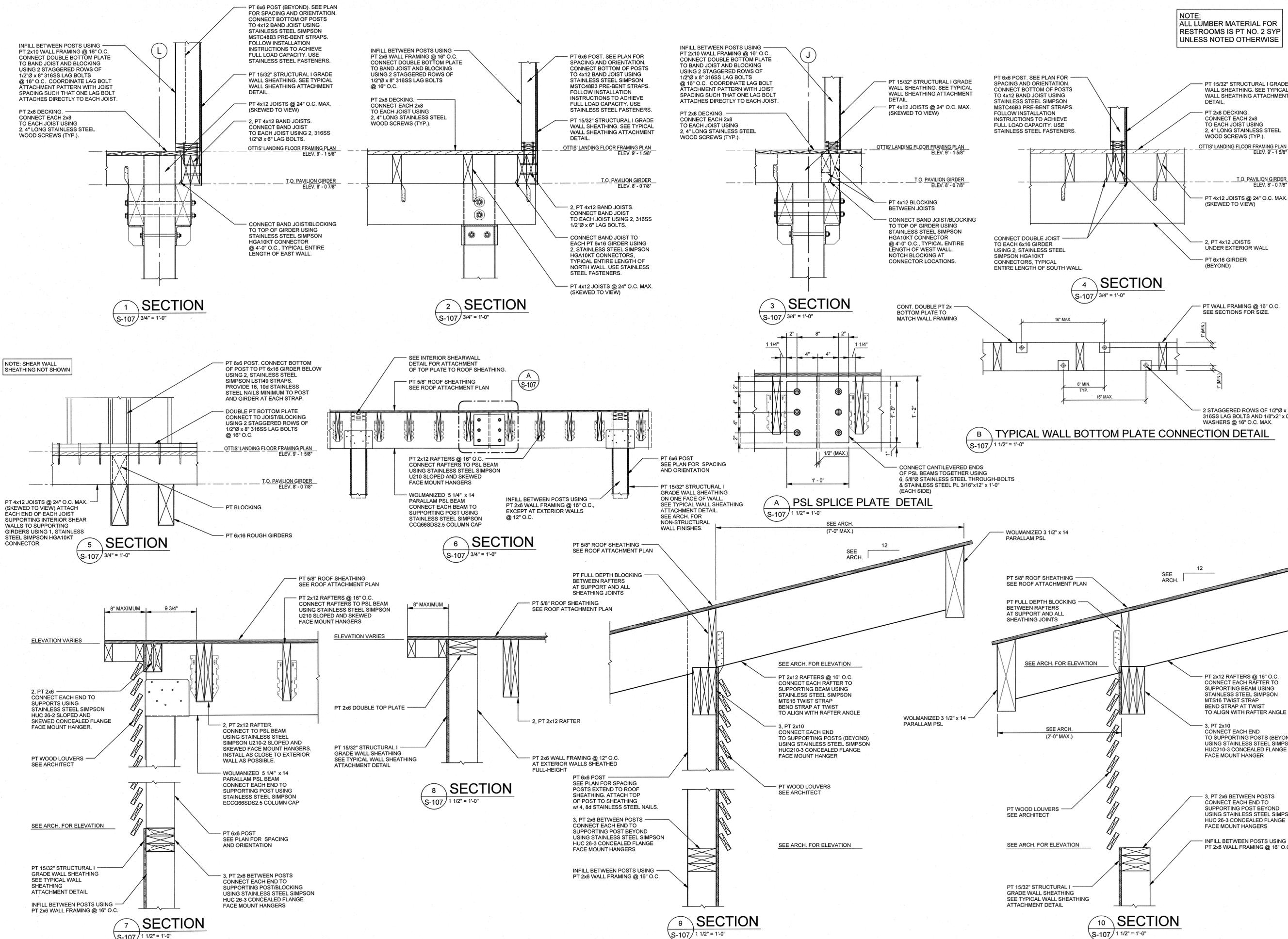
DRAWN BY: KMN

SCALE: AS NOTED

OTTIS' LANDING RESTROOMS BID ALT G-1 STRUCTURAL SECTIONS

S-107

NOTE:
ALL LUMBER MATERIAL FOR RESTROOMS IS PT NO. 2 SYP UNLESS NOTED OTHERWISE



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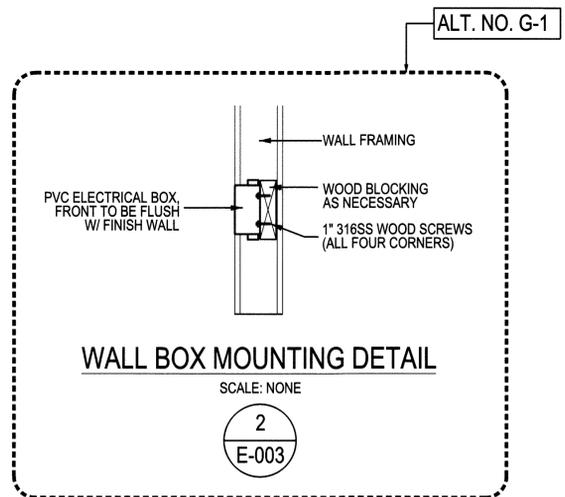
CHECK BY: LMS

DRAWN BY: LMS

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

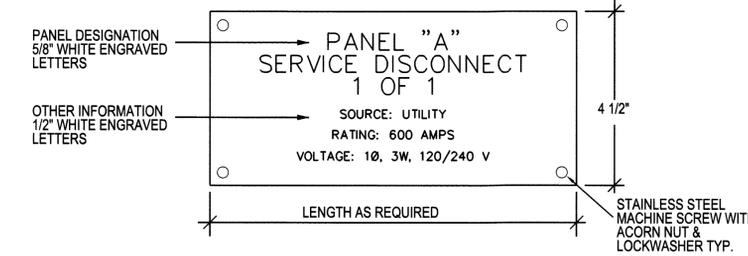
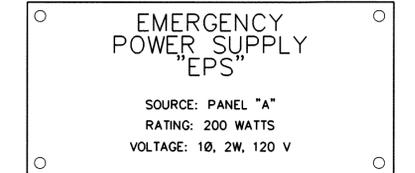
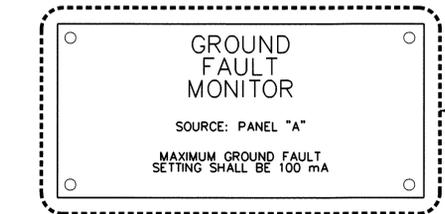
**ELECTRICAL
RISER &
DETAILS**

E-003



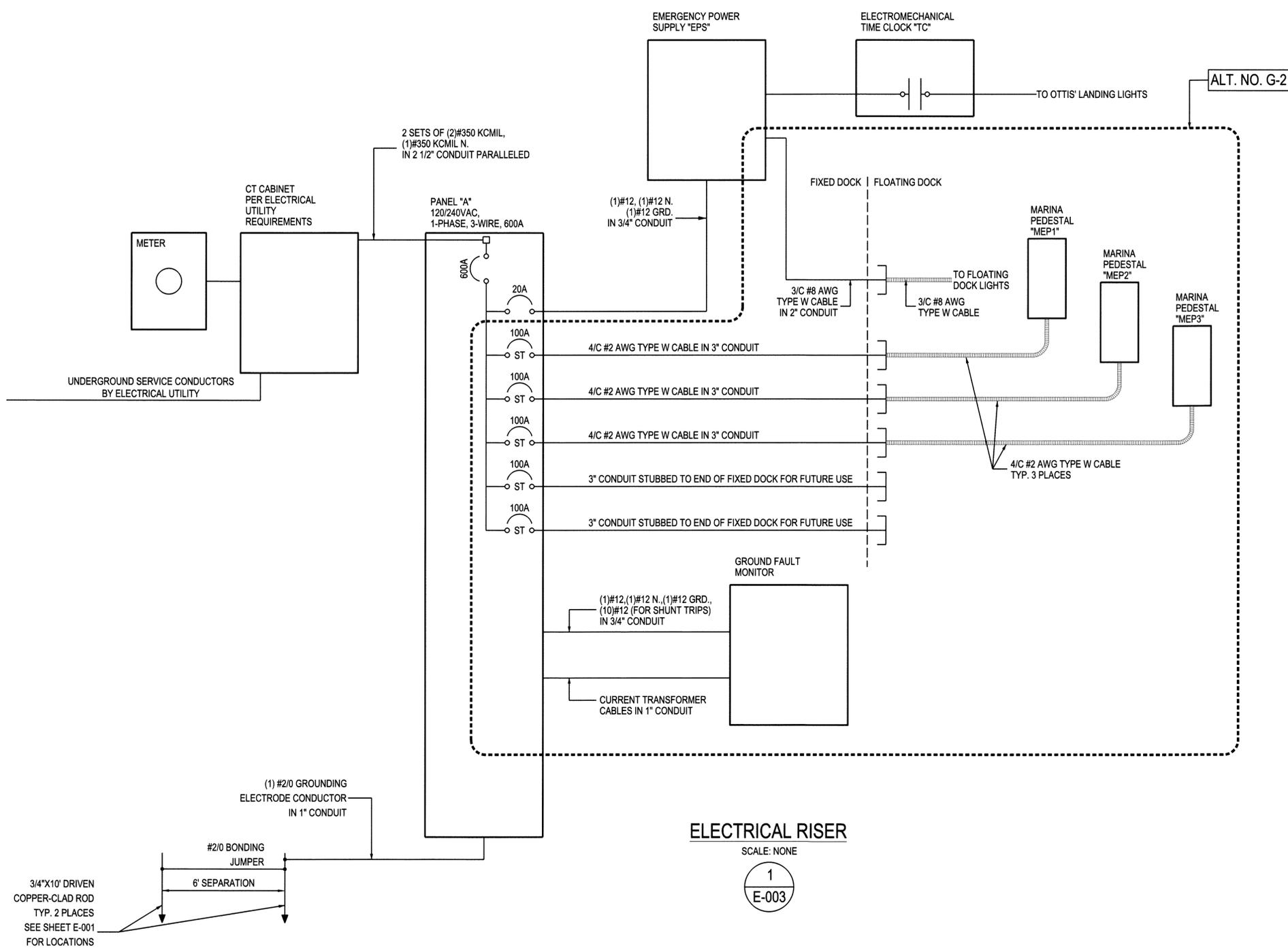
WALL BOX MOUNTING DETAIL

SCALE: NONE
2
E-003



PANEL NAMEPLATE DETAIL

SCALE: NONE
3
E-003



ELECTRICAL RISER

SCALE: NONE
1
E-003

PANEL - A		TYPE		MOUNTING		SURFACE		ENCLOSURE		NEMA-4X		PHASE 1		WIRE 3	
VOLTS 120/240		MAIN		600A MCB		FRAME 600A						SHORT CIR. RATING 10,000		RMS SYM MIN	
CKT. NO.	CB TRIP	DESCRIPTION	COND. SIZE	MIN. GRND.	MIN. WIRE SIZE	LOAD (AMPS)		LOAD (AMPS)		COND. (")	MIN. GRND.	MIN. WIRE SIZE	DESCRIPTION	CB TRIP	CKT. NO.
1	201 (GFI)	RCPTS. - NW OTTIS LANDING	3/4"	(1)Ø8	(2)Ø8	6	100			3"	4/C #2 TYPE W CABLE		MARINA ELECTRICAL PEDESTAL #1 (MEP1)	100/2 SHUNT TRIP	2
3	201 (GFI)	RCPT. - STAGE AREA	3/4"	(1)Ø8	(2)Ø8	16	100			3"	4/C #2 TYPE W CABLE		MARINA ELECTRICAL PEDESTAL #2 (MEP2)	100/2 SHUNT TRIP	4
5	201 (GFI)	RCPT. - STAGE AREA	3/4"	(1)Ø8	(2)Ø8	16	100			3"	4/C #2 TYPE W CABLE		MARINA ELECTRICAL PEDESTAL #3 (MEP3)	100/2 SHUNT TRIP	6
7	201 (GFI)	RCPT. - STAGE AREA	3/4"	(1)Ø8	(2)Ø8	16	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	8
9	201 (GFI)	RCPT. - STAGE AREA	3/4"	(1)Ø8	(2)Ø8	16	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	10
11	3Ø2 (GFI)	RCPT. STAGE AREA (220)	3/4"	(1)Ø8	(2)Ø8	24	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	12
13	201 (GFI)	RCPTS. - SE OTTIS LANDING	3/4"	(1)Ø10	(2)Ø10	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	14
15	201	LIGHTS - OTTIS' LAND./TIME CLOCK	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	16
17	201	EMERGENCY POWER SUPPLY 'EPS'	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	18
19	201	RCPTS. - RESTROOMS	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	20
21	201 (GFI)	RCPTS. - RESTROOMS	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	22
23	151	LIGHTS - MEN'S RESTROOM	3/4"	(1)Ø12	(2)Ø12	4	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	24
25	151	LIGHTS - WOMEN'S RESTROOM	3/4"	(1)Ø12	(2)Ø12	4	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	26
27	151	RESTROOM EXHAUST FAN	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	28
29	151	LIGHTS - STORAGE	3/4"	(1)Ø12	(2)Ø12	1	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	30
31	151	GROUND FAULT MONITOR	3/4"	(1)Ø12	(2)Ø12	1	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	32
33	201	HAND DRYER - MEN'S RESTROOM	3/4"	(1)Ø12	(2)Ø12	13	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	34
35	201	HAND DRYER-WOMEN'S RESTROOM	3/4"	(1)Ø12	(2)Ø12	13	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	36
37	201	WATER CIRCULATION PUMP	3/4"	(1)Ø12	(2)Ø12	3	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	38
39	201	PIPE HEAT CABLE	3/4"	(1)Ø12	(2)Ø12	8	100			3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	40
41	201	SPARE								3"	4/C #2 TYPE W CABLE		FUTURE MARINA ELECTRICAL PEDESTAL	100/2 SHUNT TRIP	42

PANEL LOAD: 108,850 VA (454A @ 240VAC, 1-PHASE)
NOTES:
1. INSTALL BREAKERS WITH GFI PROTECTION AT LOCATIONS INDICATED.
2. INSTALL BREAKERS WITH SHUNT TRIP MECHANISMS AT LOCATIONS INDICATED.
3. ALL BREAKERS SHALL BE INSTALLED AS PART OF BASE BID.
NEUTRAL TERMINAL BAR
GROUND TERMINAL BAR

LUMINAIRE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	MODEL	LAMP			NOTES
				NO.	WATTS	TYPE	
A	FLOODLIGHT	LUMARK	XTOR2A-N	1	20	LED	120 1
B	SURFACE MOUNT FLUORESCENT LIGHT	WF HARRIS	RS-200-CP-2-32-FL-T8-HPF-120-EB	2	32	T8	120 1
EX	EMERGENCY/EXIT LIGHT	LIGHTALARMS	WWXV24E1RD4X2LD7CW4	2	4	LED	120 1

NOTES:
1. UL LISTED FOR WET LOCATION