



RECEIVED

BAM 9107 PM 3 10

OPMENT ALINAWMOS

HORITY

CONSULTANT

HON POINT PANIC

111 OHE STREET HONOLULU, HAWAII 96813 TMK: 2-1-060:017

LICENSURE:

JOB NO .:

PROFESSIONAL ARCHITECT

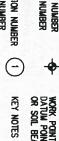
No. 9115

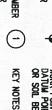
SYMBOLS

PROJECT -

LOCATION MAP











AREA REVISED

- REVISION NUMBER

FROM MILILANI MISO:

SITE DIRECTIONS

turn left onto the ramp to honolulu Merge onto 1—H—2 s Merge onto 1—H—1 e

9.2 KK

TURN RIGHT ONTO OHE ST DESTINATION WILL BE ON THE RIGHT

IERGE ONTO HI-92 E

ake exit 18a toward Hawaii 92 e/waikiki/ Imitz Highway

3.5 M 0.2 MI

TMK: 2-1-060:017

APPLICANT/LESSEE:

REPRESENTATIVE:

GENERAL DYNAMICS IT 155 KAPALILU PLACE, SUITE 310 HONOLULU, HAWAII 96819 GEODETIC INFO:

N SMA

LATITUDE: 21° 17° 37.4° NORTH LONGITUDE: 157° 51′ 42.8° WEST ELEVATION: 9′ (AMSL)

HAWAII ONE CALL CENTER
BEFORE YOU DIG CALL: 1-866-423-7287

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION/PUBLIC ACCESS. ADA ACCESSIBILITY NOT REQUIRED.

PROJECT DATA

HON POINT PANIC SITE NAME:

FIRM ZONE "X"

FLOOD ZONE:

ZONING:

111 OHE STREET HONOLULU, HAWAII 96813 SITE ADDRESS:

PARCEL #:

STATE LAND USE: DEVELOPMENT DISTRICT

URBAN DISTRICT

LEGAL OWNER:

HAWAII COMMUNITY DEVELOPMENT AUTHORITY

II-B (SPRINKLED)

EXIST. CONSTR. TYPE:

SETBACKS:

VERIZON WIRELESS 255 KAHELU AVENUE MILILANI, HAWAII 96789

FRONT YARD: REAR YARD: SIDE YARD:

HEIGHT LIMITATION:

NOT IN SPECIAL DISTRICT

ARCHITECTURAL DRAWINGS

- SPECIFICATIONS
- SITE PLAN, DETAILS

HON POINT PANIC

NEW TELECOM. FACILITY

erzonwireless

- DETAILS

- ሯ MPICAL DETAILS

0,00

- FOUNDATION PLAN, EQUIPMENT LEVEL ROOF FRAMING PLAN

SHEET TITLE:

TITLE SHEET, SYMBOLS,

PROJECT DATA, SHEET INDEX

111 OHE STREET

HONOLULU, HAWAII 96813 TMK: 2-1-060:017

HAWAII CHILDREN'S DISCOVERY CTR

SECTIONS & DETAILS

ELECTRICAL DRAWINGS

- Z T ELECTRICAL PLANS, DETAILS
- T
- SPECIFICATIONS, ANTENNA GROUNDING DETAILS

APPROVALS

DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE CONSTRUCTION DRAWINGS DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

THE PROJECT CONSISTS OF THE INSTALLATION OF COMMUNICATIONS EQUIPMENT FOR VERIZON WIRELESS' EXISTING TELECOMMUNICATIONS NETWORK.

PROJECT DESCRIPTION

NEW PANEL ANTENNAS and ANCILLARY EQUIPMENT TO BE INSTALLED AT THE (E) BUILDING WALLS.

NEW ELEVATED EQUIPMENT STRUCTURE WITH SCREEN WALLS (STORAGE BELOW) TO BE CONSTRUCTED ADJACENT TO THE EXISTING BUILDING.

EXISTING BUILDING.

NEW EMERGENCY GENERATOR INSTALLED ADJACENT TO THE SITE PERIMETER WALLS.

STRUCTURAL ENGINEER

IWAMOTO & ASSOCIATES, LLC 94-029 HEKAHA STREET, SUITE 37 HONOLULU, HAWAII 96815 (PH) 486-5202

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CUIRRENT EDITIONS OF THE FOLLOWING CODES AS ADDPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODES AND STANDARDS

CONTACT: RON IWAMOTO

PROJECT CONSULTANTS

ELECTRICAL

Bennett Engineers, Inc. 765 Amana Street, Suite 201 Honolulu, Hawaii 96814 (PH) 955—8565

RODNEY ARAKAKI

1. IBC, 2006 EDITION W/LOCAL AMENDMENTS
2. UPC, 2006 EDITION W/LOCAL AMENDMENTS
3. NATIONAL ELECTRIC CODE, 2008 EDITION
4. NFPA 1 2006 W/LOCAL AMENDMENTS
5. ANS/EIA-222-F LIFE SAFETY CODE

	SIGNATURE	DATE
REPRESENTATIVE		
RF ENGINEER		12.
SITE OWNER		
	HOLY THE WILLIAM	

SI EET INDEX

ROJECT INFORMATION:

- TITLE SHEET, SYMBOLS, PROJECT DATA, SHEET INDEX
- 7
- ROOF PLAN, EQUIPMENT ENCLOSURE PLAN, STORAGE ROOM PLAN SOUTHEAST ELEVATION, NORTHEAST ELEVATION ENLARGED SOUTHEAST ELEVATION, SECTION

STRUCTURAL DRAWINGS

- Z GENERAL NOTES
- GENERAL NOTES
- K

- TYPICAL DETAILS

- SECTIONS & DETAILS

- OVERALL ELECTRICAL PLAN, GROUNDING PLAN
- FIBER RISER DIAGRAM, ONE-LINE DIAGRAM, PANEI SCHEDULE, LUMINAIRE SCHEDULE
- FIRE ALARM PLAN, FIRE ALARM RISER DIAGRAM

REV. DATE:

DESCRIPTION:

CURRENT ISSUE DATE/ISSUED FOR: -

7/13/2015 -- PERMIT

	SIGNATURE	DATE
REPRESENTATIVE		
RF ENGINEER		12
SITE OWNER		
A THE SHEET WAS	HIGH STILL SOFT	



SHEET NUMBER: 19

DIVISION 1 - GENERAL REQUIREMENTS ARCHITECTURAL SPECIFICATIONS

SECTION 0100 - GENERAL PROVISIONS

- ALL WORK and MATERALS SHALL BE IN ACCREMANCE WITH THE 2005 EDITION OF THE BLC. THE LATEST HEALTS AND REGIONATIONS OF ALL APPLICABLE STATE CHAPL OFFI SPECIFICATIONS IN THE CONSTRUED AS REQUIRRIGH OF PERMITTER WATER CONTRIVENT OF THESE RALES, REGULATIONS and CONCES. IF SO, CONTRICT THE ARCHITECT FOR RESOLUTION
- HE DRAINAGS NOTCATE LOCATION, DIADESCING, REPERBING AND THYCK, DETALS OF CONSTRUCTION, THE DRAININGS DO NOT ELUSTRATE EVERY CONDITION, WORK NOT HAVE SWILL BE OF CONSTRUCTION SHALAR TO PARTS WHOM ARE
- DETAILED DRAMMES and LARGER SCALE DRAMMES TAKE PRECEDENCE OHER SIAULI. SCALE
 DRAMMES, PRETERIACE SAVIL BE CHEN TO THE FREARED DRASSCRIS ON THE DRAMMES
 OTHER, MOTERIAL HOUSE, SPECEPACINGS ARE IMPRICED TO AGREE and SUPPLEADIT EACH
 OTHER, MYTHRIG MÜDCATED ON ONE and NOT IN THE OTHER SMALL BE CREATED AS F
 BOTH, IN CASES OF DRECKT COMPLICT, THE MOST RESTRICTINE SMALL BOYGEN (CONTACT ARCHITECT FOR RESOLUTION).
- CONTRACTIONS SALL VIST THE SITE and VEREY THAT ALL EXISTING CONDITIONS SEE WITH THE RECOGNATION SHOWN, THE CONTRACTION SHALL KERY IF ENVIRONMENTAL RESENANCE OF THE PRACEST SITE ALL OF RECIPIEDAD. ALL CONTRACTIONS SHALL BE RECOUNTED THE SITE and SALISTED HASSES AND TO THE TRUE CONDITION DET WHICH THE VERSICIES IN TO THE TRUE CONDITION. THE ARCHITECTS ATTEMPORY FOR RESOLUTION PROPE TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PATCH OF REPAIR ALL INATERIALS, EQUIPMENT and SUBFACES DANAED BY THE CONTRACTOR OF HIS SUB-CONTRACTORS DARWS THE EXECUTION OF THE NEXION.
- TALED. ALL ECCES MATERIAL, DEBRIS, TRASH, ETC. SHALL BE REMOVED FROM THE STE CHALL INSPECTION, SALL INCLUDE A THOROLOGY CLAWING OF ALL SHEFFICES SHE MOVAL FROM THE STE, THALL CLAWING AFTER SHESTIMFING COMPLETION, BUT COMPRACTION SHALL CLEW-UP DEBRIS AS THE WORK PROJECTS PROVIDE FOR
- DOSTING WITH STREN, WATER, GAS, ELETING and OTHER UTILITIES WHERE STUDIEDED IN THE WARD SHALL BE REDUCATED AS DIRECTED, ESTREAGH THAN SHALL BE REDUCATED AS DIRECTED, ESTREAGH THAN SHALL BE REDUCATED AS DIRECTED, ESTREAGH THAN SHALL BE RESTORED AS DIRECTED, ESTREAGH THAN SHALL BE RESTORED AS DIRECTED, BE RESTORED AS DIRECTED, BE RESTORED AS DIRECTED, BE RESTORED AS DIRECTED, BE RESTORED TO A FALL PROTECTION B) COMPRED ONCO. OF A FATTERNAL SHALL PROTECTION B) COMPRED ON CO. OF A FATTERNAL SHALL PROTECTION B)
- CONTRACTOR SYALL COORDINATE NEW WORK WITH THE LANDLORD TO ANDD WAPPIONS TO THE BALLING/TEMAY FACTIONES. OBTHAIN LANDLOSPH PARIES OR PUBLIC WAYS OF EAFFECTED, CONTRACTOR SWALL ALSO COORDINATE THE HOLIRS OF OPERATION, YEARS AND ALL RECESSARY JAPPROVALS OF AFFECTED, CONTRACTOR SWALL ALSO COORDINATE THE HOLIRS OF OPERATION, YORK/LANDLOSPH AFEAS and HOURS OF CONSTRUCTION.
- MATERIALS SHALL BE DELIVERED TO THE JAS STE IN THE GRADIAL CONTAINESS and IRED IN A SAFE, DRY PLACE PROTECTED FROM EXPOSURE TO THE ELEMENTS OR MACE ALL MATERIALS SHALL BE INSTALLED/APPLED FOR THE MANUFACTURER'S
- THE CONTRACTOR SHALL PROVIDE and PAY FOR ALL NECESSARY TEMPORARY WATER and ELECTRIC SERVICES and LIGHTING REQUIRED DURING THE EXTRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL SUBMIT TO VERZON WIRELESS PROJECT ENGNEER FOR AROHTECT'S REVIEW, REQUIRED SUBMITIALS WICLIONG SHOP DRAWNES, PROJECT DATA and SAMPLES.
- PRICE TO EACH SEBILITAL REVIEW and CODEDWATE ALL ASSECTION OF EACH SEBILITAL AFFIX CONTRACTICES STAMP and SHAULTIE TO EACH FEBRUARIA. THAT REVIEW/COORDINATION HAS BEEN FEBRUARIA. LACK OF CONTRACTICE'S CENTRACATION WILL BE CAUSE FOR REJECTION.
- THE CONTRACTOR SHALL PAY OF ALL PERMITS and FEES AND ARRANCE FOR ALL SOMERHADIT INSPECTIONS/APPROVALS AS REQUIRED and SHALL SECURE THE DESTRIPLATE OF OCCUPANCY, PROVIDE COPIES TO THE ARCHITECT/OWNER.
- THE CONTRACTOR SHALL TEST, ADJUST and BALANCE ALL SISTELUS and PROVIDE COPIES OF TEST REPORTS and OPERATING INSTRUCTIONS TO CHIEF.
- THE COMPACTOR SHALL PROVIDE THE ARCHITECT WITH ONE SET OF 11X7 REPRODUCINE AS-BUILT DRAININGS, CLEARLY MODICATE REVISIONS TO THE ORIGINAL COMPACT DRAININGS.

DIVISION 2 - SITE WORK and DRAINAGE

SECTION 02000 - EARTHWORK, EXCAVATION AND GRADING

- wark natured. Refer to the survey and architectural site $\mathbf{P}_{\mathbf{i},\mathbf{M}}$ for work walded.
- QUALITY ASSURANCE: APPLY SOL STERLIZER IN ACCORDANCE WITH LANGUAGHADIANDA (USZ. AS REQUED). RESETATION LANGUAGHAG. F INCLEDD WITH THE CONTRACT, SHALL BE PLACED and MANTANED AS RECOMMEDIDED BY NURSERY BIOUSTRY STANDARDS.
- SCHEDILING: WEIETY STAKES AS PROMDED BY SURVEYOR AND SET BEVANDA STAKES PARIC TO CONSTRUCTION, GRUB THE WEEK OF HEW WORK PRICE TO ECILANTION, BACK THAT OF FUNDATION WORK COMMENCES. APPLY SOIL STERUZER PRIOR TO PLACING BASE INTERNAS.
- MITALS. SUBMIT THO (2) COPES OF THE LANDSCAPE PLAN, IF APPLICABLE, TO COMERY, ARCHITECT FOR REARY/APPROVAL, AFTER COMPLICION OF PRODUCT and WARRANTY SIBLENT ON SOIL STERRIZED, GRASS SEED and FERTILIZER AND LANDSCAPE REARTY STATEMENT (F REQUIRED).
- ownth the compactor sual repar all damage of subschinding tenty caused by construction landscaping, if inclided, sual be wated for one (1) year from date of final respection.
- IPHENT: COMPACTION SHALL BE BY MECHANICAL MEAKS. LARBER AREAS SHALL COMPACTED BY SPEEPS FOOT, VIBRATORY or RUBBER TED ROLLERS WEIGHING LEAST RIVE. TONES, SMALLER AREA SHALL BE COMPACTED BY POWER, HAND HELD PRE-EMERGENCE DESIGN, WEED BARRIER: GEOTEXTILE SOOK OR APPROVED EQUAL

- distallation the area of work shall be at sub-base colbese denation proof to provide planations, clear excess sall for the job stit spread because because the job with spread because decidents of the owers lease property, ando deathne depressions where water have prod. The prices gave shall extend a modula of one from the stie feace and shall cover the area as indicated.
- QUALITY CONTROL: COMPACTION SHALL BE MANAGEM EDISTY I ACCORDANCE WITH ASTALD—1997 RTM STE WORK and 95% UNDER SLAB AREAS, AREAS OF SCITLEMENT WILL BE EXCAVATED AND REPILED AT CONTRACTION'S DYPHISE.
- PROTECTION: ALL EXPOSED AREA SHALL BE PROTECTED AGAINST WASHKUTS and SOIL EROSON.

SECTION 02880 - SOIL TREATMENT FOR TERMITE CONTROL

- iork waludzi: all ground osturged by New Work, akluding but not Juited to Equipment concrete pad, trenching, etc., svall be treated Gavist Ground Texnite infestation.
- PART 2 PRODUCTS NOT USED inatanth provide wotten wardanty, period to be at a idmaalii of two (2) years for materials and installation.

ART 3 - EXECUTION: NOT USED

DIVISION 3 - CONCRETE (SEE STRUCTURAL)

DIVISION 4 - MASONRY (SEE STRUCTURAL)

DIVISION 5 - METALS

ECTION 05500 - METAL FABRICATION

CULLITY ASSERMACE COMETY WITH THE LATEST CONERRING CODES and REED N REGULATIONS, PROVIDE PRODUCTS FROM MANUFACTURES WHICH HAVE BEEN N SATISFACTORY USE TRAY A MANUFACTURE TO THATE OF THE PRODUCTS FROM MANUFACTURES RECOMMENDATIONS.

CONCRETE MESTITS: GALVANZED FEBROUS CASTIMASS
NON-SHORK MORPHROOLS GROUT: CC COD C589
GALVANZING: MOT-OP GALVANZING IN ACCORDANCE WITH ASTA A 123
ELECTRODES FOR WELDING: COMPLY WITH ANS CODE USE E70CK ELECTRODES

nstalator nstal wor plae of Lee With Haring Joints of Goldo Rish Wedg, Wed Combaucisty Grop Flush of Mare Skooth on Excess Surface, Toush-up Damaged Coatings with Sady Project and Galyange. Refair Parit.

DIVISION 6 - WOOD and PLASTICS (NOT USED)

SECTION 07560 - FLUID APPLIED ROOFING DIVISION 7 - THERMAL and MOISTURE PROTECTION

11 — SDEPAL DESCRIPTION FILED APPLED FLERRE ACTUO WATERPROOFING SISTEM OVER STRUCTURAL CONCRETE. THIS WORK SMALL NOLLING THE PREPARATION OF THE ROOF DECK, APPLICATION OF THE ROOF STISTEM, FLASHING STISTEM, AND CLEAN UP.

SIGP DRAINNES: SUBAIT A SCALED DRAINNE SHOWED THE LAYDUT OF JOHN REPREASED AND ALL FLASHING DETAILS.

REPREASED AND ALL FLASHING DETAILS.

PRODUCT DATE PROPONE NAMEACH/DIBER'S RECANCIAL LITERATURE ON PRODUCTS THAT MAKE UP THE ROOFING STSTEM. THIS SHALL MILLION, BUT IS NOT DRAINS, FASTICIDES, ETC. DAVINS, REPREASED FLASHING MERITALIZION, SEEDIM ALL DAVIN, SPEETS AND ABLE THOSE INVAFACTURES ON THE INSTALLATION OF THE ROOFING SYSTEM APPLICABLE.

R'S CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED

A APPLIXITIO QUALIFICATIONS: THE APPLIXITIO OF THE ROOFING MATERIAL SPECIFED HERBIN SHALL BE AN APPROVED APPLIXITION, PROOF OF THIS QUALIFICATION SHALL PROVIDED ON WRITTING FOR THE ROOFING SYSTEM.

1.4 WARRANTY: RECONDE TEN YEAR MANUFACTURERY'S WARRANTY.

21 MANIFACTURER
A HYDDO-STOP, INC.
1468 PREFITIER STREET MORTH CHARLESTON, SC. 29405
TOLL FREE. (800) 7739-5560, PHONE: (843) 749-9600, FAX: (843) 749-9602
TOLL FREE. (800) 7739-5560, PHONE: (843) 749-9600, FAX: (843) 749-9602
TOLL FREE. (800) 7739-5560, PHONE: (843) 749-9602
TOLL FREE WILLIAMON-STOP AND TOLL FASTOR REDIFFRACE, FASTOR

TOTAIS MATURAL: PRESIDE OAN TREE-FINAS, FARRIC RORFORDS, ALDRES CONTRACT, AND THE RORFORDS OF STARS TO FIRE ORE CONTRACTOR. S. WATERTREM MASSAME: 40 AL MOMANIA CHIED TOTAL STEED HECKERS, D. OF THE TALLORING TO CAN'T PREMIUM COAT FOLORITON COAT TRUMBITION AND STATEMATICAL COATS. PREMIUM COAT FOLORITON COAT idation and saturation coats. Premium coat foundation coat HLY FLOORE water based 100% pure acting polymer resin coatings). We hydro—stop polyester, how—woven, stitch—bonded, and heat—set

FIRSH CAAT: PREMIUM COAT FIRSH COAT (ALTRAMOLET LIGHT RESISTIANT, BLOG OF MIGHLY FLORMER MICTR 98-525) 100 % PIRE ACRYLLE FOLVINER RESIN CAATING); CALORA SES SELECTED FROM MAMIFACTIRERYS STANDIARD COLORS, REMYCOCHIE FARRIC, THIS MATERIAL SYMAL BE NON-WOYEN, STITCH BODIED, BEAT SET FABRIC.

3 ACESSINES Surface Primer Hydro-Stop Barriergiand Csubhicus Waterproofing Sealer for Structural Comprete.

BY SUBSTRATE SUPFACES ARE DURABLE, FREE OF FROZEN MATTER, DAMPNESS, SE PARTICULES, CRACKS, FITS, PROJECTIONS, OR FOREOM MATTER DETRIBUTIAL ESIGN OR APPLICATION OF INTERPROCEING SYSTEM.
BY HANT SUBSTRATE SUPPACES ARE SMOOTH, AND NOT DETRIBUTIAL TO FALL INCL. BOOD OF INVESTRECTOR MATERIALS.

ECT JOJACHT SURFACS NOT DESCHAID TO RECENT WITEPROOFING.

1 AND REPUME SURFACS TO RECENT WITEPROOFING BY REJAMANG ALL LOSS.

FLANDS PARTICLES, REJACE AND LUTBICS.

FLANDS PARTICLES, REJACE AND LUTBICS.

COLOSS AND LINES WITH SCLARE THATEFACH USING DEPTH TO WOTH RATIO AS

MANDRICH BY SCALART WARFACTURED.

IX BARRERGIARD SLIRRY IN ACCIRDANCE WITH WARLEACTURER'S INSTRUCTIONS AND PPLY OVER MASSINEY SLIRRAZE AT A COVERAGE RATE OF 200 SQ. FT./Sq. PAT-SQ. PAT

I'Y FOUNDATION COAT TO THE PREPARED AREA, EURED FARRIC ORRESTLY ANTO THE TING WHILE STILL WET, OMEILAP ADJACENT RUNS OF FABRIC & NOTES WINNAUM. STATELY FOLLOW WITH A SATURATION COAT TO COMER FABRIC AND ALLOW TO DRY

A MULTIPROCERS STEEL TO A TOTAL TRICKESS OF 40 MIS. TOTAL CURED.

A MULTIPROCESS OF THE A COMBINED TOTAL RATE OF 70 SQ. FT./GAL.

FUND CARTS OF THESH COAT AT A COMBINED TOTAL RATE OF 70 SQ. FT./GAL.

FUND CARTS OF THESH COAT AT A COMBINED TOTAL RATE OF 70 SQ. FT./GAL.

FUND ROOF STEEL TO A TOTAL TRICKESS OF 40 MIS. TOTAL CURED.

MAEDIATELY CLEAN HATERPROOFING SYSTEM FROM UNISCHEDULED SUPFACES RECEIVAGE IN ACCORDANCE WITH MANUFACTURER'S RECONNEHDATIONS.

SECTION 07900 - JOINT SEALERS

SENERAL CHARACTERSTICS. PROME THE, GRADE CLASS HARDNESS, and SIMLAY WIN CHARACTERSTICS OF MATERAL AS ROCATED OF, WHERE MOT MOCATED, TO COMPLY WIN MANUFACTURERY'S RECOMMENDATIONS FRACTING TO EPOSTICS, TAPPER, MEATER CONDITIONS OF OFFICE ADMIT STEED FOR REST POSSBEE OVERALL PROFORMANCE AND STAFFER ASTRONOMY MAPFIRM OF MATERIAL PROFORMANCE STALES ARE REQUIRED TO PERMANENTLY MAPFIRM ARTIGHT and WATERPROFE STALES, WINDOWS FALLERS ARE REQUIRED TACKNOWNING, CONESION, AMERICAN MARGINET MARKET PROFORMANCES AS SPECIFIED.

PART 2 - PRODUCTS

MATERIALS -- SEALANT: ONE-PART POLYMETHANE, CLASS A, TYPE II, AS MANUFACTURED BY TREMOIL OF APPROVED EQUAL. atemas -- Selant Backe Rod. Wah-Absopptie Closd CSI. Dapressble/Aldible Pastic & Rubber Rod Stock Which is compatible with Salant (Polistiandre, Buthl, Neoprole, Poliarethwie, Pac)

DIVISION 8 - DOORS and WINDOWS Stallation netall extende sealwits when temperature is in the rakes coloradored by Manfacturer for nestallation, clean Jana Seperates and Prime of Ecoloradored by Sealwit name accurate, support Sealwits from Back With Distribution as Shown, or with Joint Filer of Backer Rod.

SECTION 08100 - HOLLOW METAL DOORS and FRAMES

PROVIDE ONE-HOUR HOLLOW METAL DOOR and FRAME WHERE DIDICATED ON THE DRAWINGS

<u>PART 2 - PRODUCTS</u>
COORS SHALL BE FILL FLUSH WITH WISHE EDGE SZAMS, FABRICATED FROM 18 CA. ADD GRAWARDD STEEL MATERIAS WITH MANIFACTURER'S STANDARD PRIME COAT FRIESH.
DOOR CONSTRUCTION SHALL BE AS STANDARD WITH THE MANIFACTURER, NOLLDING ALL HRIGE, LOCK AND CLOSER REDIFFRICIABITS. APPROVED HAMIFACTURER. CHRREIS DOORS OF APPROVED EQUAL.

PRIMADES PRIMADES SHALL BE FORMED FROM 16 GA. AND GALVANZED STED. MATERIALS WITH THE MANEFACTURETYS STANDAND FRIBE COAN FRIESE. FRAMES SHALL BE RARRISHED MOOD COOM AND WITH FACE, STRING AND CLOSES RECEIVEDS WITH THE CHARACTER THAT. SHAMES SHALL BE RARRISHED WITH THE CHARACTER THAT FRAMES SHALL BE RARRISHED WITH THE CHARACTER AS REQUESTED FOR THE WALL CONSTRUCTION. APPROVED MANEFACTURED; CLORESS DOORS OF APPROVED EQUAL.

THESE BAKED ENAMEL OF COLOR SELECTED. COAT NSDE OF FRAME PROFILE WITH THEMPOOLS COATING TO A THICKNESS OF 1/16 INCH. COATING MAY BE SHOP OF RELD

<u> ART 3 — EXECUTION INSTALLATION</u>

FURNISH and INSTALL ALL HARDWARE COMPLETE AS INDICATED.

SUBJUTIALS

PART 2 - PRODUCTS

PROPRET/ARY PRODUCTS:
RESERVACES TO SECURIC PROPRET/ARY PRODUCTS: ARE USED TO EST/ABLISH MINIMUM
RESERVACES OF UTILITY and QUALITY, ACCEPTABLE MANUFACTURERS: MACRONEY, SAREDHT,
QUALITY, PEMOD, NES, SCHLARE, BEST, TIBMOD, IDANFE VOST.

PART 3 - EXECUTION:

Hardware St. 2344 ϕ_{λ}^{p} , ϕ_{λ}^{p} , usx20—har hares, 1 each sargent 10606 il usz80, 3 each machanent tacht, och i, each sargent 455 angle charge devicati, 15 each sargent 455 angle charge devicati, 15 each sargent 455 angle charge devicati, 15 each sargent 455 angle charge devication in each peak of the hard 17 angles angles charge devication in the camera. All hardware uses a market and hardware and the camera an

DIVISION 9 - FINISHES

SECTION 09200 - FIBER REINFORCED STUCCO

PART 1 - GENERAL

NOUGROSSIO MELSAS COOPLICA

A DESCRIPTION OF PAREX I COAT STUCCO SYSTEM:

PAREX I COAT STUCCO SYSTEM: A PROPRETARY MOTURE OF PORTLAND COMENT, SAND,
QLASS REDIS AND PROPRETARY MARKDIGHTS HESTALLED OVER CONCRETE OR MASCHET,
B. PAREX I COAT STUCCO SYSTEM FLANCTIONAL CRITERIA: EDIENU: STUDDO APPLICATION SAMUL BE VEXTICAL OR SAMUL BE PROTECTED FROM WEATHER DOPOSITIE HARMAIL TO COMITING PERFORMANCE, AND SHALL BE SLOPED FOR POSITIVE DRAWAGE.

PRODUCT DELIVERY, STORAGE, AND HANDLING A. DELMERY: DELMER COATING PRODUCTS IN ORIGINAL PACKAGING WITH MANUFACTURER'S IDENTIFICATION.

STORAGE: STORE STUCCO STSTEM PRODUCTS IN DRY LOCATION, OFF THE GROUND, PROTECTED FROM MOSTURE CONDITIONS HARMFUL TO PRODUCT PERFORMANCE.

PROJECT / SITE CONDITIONS A. ENVIRONMENTAL CONDITIONS COMPLY WITH MANUFACTURER'S RECOMMENDATIONS OF ENVIRONMENTAL CONDITIONS AFFECTING PRODUCT PERFORMANCE. Wildiant Wather do not apply stucco system during noldiant Wather, Unless approprate protection is employed, which would regate manufacturer's warranty for installation.

mlight eiposure: Avod Stucoq, system mstallation where frigh coat Eiposed to A hot sun, comply with marifacturer's recommendations R warranty installation.

O SYSTEM MATERIALS SHALL HOT BE APPLED IF AMBERT S 125° (49°C) WIRM 24 HOURS OF APPLICATION, PROTECT A AND CRESSIVE EMPERATION OURSIGN 64°C, INC. WALL SHALL BE FREE OF RESIDUAL MOSTURE.

8. COORDINATION AND SCHEDULING:
COORDINATION: COORDINATE STUCCO SYSTEM INSTALLATION WITH OTHER CONSTRUCTION GREATIONS. <u>2008/01/ANION</u>: UPON FULL CURE OF SURFACES TO BE SEALED, 2008/DAVICE WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.

ART 2 - PRODUCTS ARRANTY: UPON REQUEST, ANDARD LIMITED COATING AT COMPLETION OF INSTALLATION, PROVIDE PAREX STSTEMS WARRANTY.

MANUFACTUREDE PAREX, DIC., P.O. BOX 189, REDAM, GA 30074

A. STUCKOD MATERIALS. FREE-REBIFICACIO (COMEDITRATE): 1 COAT STUCKO DISTRIA IS A PROPRETARY MATURE OF PARTILAND CADENT, SAMD, CLASS FRENS, WITER AND PROPABLINIS 5-7 AUL. (19-27) LITERS) OF POPULEE WATER AND APPROMANTELY 225 LES. (102 KG) OF SAMD, COMPLYING WITH ASTAI C-144 TO BE FRED ACCED.

8. PLATE, PRIMERS.

8. PLATE, PRIMERS.

SAMDED PRIMER 313: 1003 ACTILIC BASED COATING TO PREPARE SURFACES FOR PAREX, SINFACE FOR PAREX, SEVASTONE PRIESA.

C. PAREX FINISH.

PAREX 400 SERIES FINISH
LASTOMERIC SYNTHETIC FI
COLOR AS SELECTED BY PAREX FINISH COAT: -WISH TIPE, TEXTURE AND COLOR AS SELECTED BY ARCHITECT. H COAT: FACTORY BLEWED, 100% ACRYLIC POLYMER BASED PRISH, MTERVALLY COLORED, FRASH TYPE, TEXTURE AND ARCHITECT.

RELATED MATERIALS
A. GENERAL: RELATED MATERIALS
EVALUATION REPORT NO. 48:
B. SUBSTRATE MATERIALS: C BRALS SHALL CONFORM TO THE REQUIREMENTS OF 1250 ES 658, AND SHALL CONFORM TO THIS SPECIFICATION CONCRETE (POURED OR PRECAST) AND MASOIRY

ART 3 - EXECUTION
ANUFACTURER'S INSTRUCTIONS

DIRECTION SOMETH IN MUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF STUCCO SYSTEM

PART 1 - GENERAL SCORE OF WORKS SECTION 09900 - PAINTING

THE WORK TO BE DONE BY THE WORK TO BE DONE BY THE OTHER TOWN TO AND THE OTHER TOWN TOWN THE OTHER THE OTHE HE PANTHO CONTRACTOR SIALL NICLIDE THE RUBNISHING OF S., and GELIPHON REQUESTS and BY SURFACE MOUNTED AND LESS TO PORTRACE DECETS and BY SURFACE MOUNTED AND LESS OF SURFACE MOUNTED AND REMOVED BY THE SCOPE SURFACES IN CONCELLED SPACES INCOMESTY AND REMOVED AND LIBERT AND LIB

MERCHANSIP.

ALL INITERIALS SHALL DE APPLED FROE FROM RUPS, SMS. WRINGES, STREAKS, SPRETS,
ALL INITERIALS SHALL DE APPLED FROE DIME ORDER. IN REDUCTION OF THE
COATINGS MEXISTED INECESSARY IT SHALL DE DOME IN ACCORDANCE WITH THE
LIMIT ACTUREDS LABEL DIRECTIONS. BETTER PARTING COMMENCES, ALL OTHER COAPTS SHALL
HAVE COMPLETED THER WORK, and SHALL HAVE RESIDNED ALL DRY and DEBROS RESULTING
THEREFROM.

SPECIFICATIONS ARE BASED ON COATINGS AS MANIFACTURED BY SHERMIN INLIMANS DICEPT AND COMPRACTOR IN INSTINC. COLORS SHALL BE THOSE APPROVED BY THE ARCHTEST THE SPECIFIC THREE AND MERCHAL COLORS SHALL BE THOSE APPROVANTE SHADE OF THE SPECIFIED PINSH COAT. (AS APPLICABLE)

PART 3 - EXECUTION

SJRFACE PREPARATION - CLEAN ALL SURFACES ARE TO BE FREE OTHER FOREIGN MATTER WHICH (MANG E OF LOOSE MORTAR, DIRT, GREASE, OIL, LOOSE PAINT and COULD PREMENT PROPER ADMESION.

SURFACE REPAIRS: REPAIR ALL CRACKS, HOLES, (COATINGS, callions and scalart compounds shall be allowed to care for times stated in Hamifacturers literature fror to being coated.

REMOSS and BREAKS ON SUBSTRATE PRIOR TO APPLYING

APPLY COATINGS STRICTLY PER

MANUFACTURERS FRINTED APPLICATION INSTRUCTIONS.

SCHEDULE OF FINENESS

1 OCHOSETE and MASSINET SHERKESS. 2—COLATS LATEX BASE DRYLON MASSINET

NUTERPROFERS APPLIED FEE MANUFACTURER SPECIFICATIONS. 1—COLAT FRO BUILSTRAM.

ZERO VOC ACRYLLE (SEAM—GLOSS).

10 CONCENTE FLOORS. ARANCRISM. 31 EPONY PRIMER/SEALER, 2—COLATS ARANCR SEAL 1000

11 SALVANIZED METALS: 1—COLAT PRO BOULSTRAM. PRO—CRYL UNIVERSAM. ACRYLLE PROMER.

2—COLATS PRO BOUSTRAM. ZERO VOC ACRYLLE (SEAM—GLOSS).

10 WOOD: 1 COLAT EXCERNOR LATEX PRIMER, 2—COLATS PRO BIOLISTRAM. ZERO VOC ACRYLLE (SEAM—GLOSS). EBATE).
--CANT PRO BOUSTRAW, PRO-CRYT, UNIVERSAL ACRYLIC PRIMER, BAL ZERO VOC ACRYLIC (SEMI-BLOSS).
--BAL ZERO VOC ACRYLIC (SEMI-BLOSS).
--CANTS PRO BOUSTRAW. ZERO VOC ACRYLIC CRY LAIEX PRIMER, 2—COATS PRO BOUSTRAW. ZERO VOC ACRYLIC

 \underline{PANEL} antenas: 1 malti-furpose latex primer, 2—coats fro industrial zero voc acrylic (Sem—gloss).

675311 19365: 1 COAT FREADM WALL & WOOD PRINER, 2 COATS SUPERPAINT INTERIOR ACTIVIC LATEX (SEM-GLOSS), LATEX PRIMER, 2-COATS PRO INDUSTRIAL ZERO VOC ACRILIC (SEM-GLOSS). PREJULIM WALL & WOOD PREMER, 2 COATS SUPERPAINT INTERFORDS.).

DIVISION 10 - SPECIALTIES (NOT USED)

DIVISION 11 - EQUIPMENT (NOT USED)
DIVISION 12 - FURNISHINGS (NOT USED)

DIVISION 13 - SPECIAL CONSTRUCTION (NOT USED)

DIVISION 16 - ELECTRICAL (SEE ELECTRICAL) DIVISION 15 - MECHANICAL (NOT USED) DIVISION 14 - CONVEYING SYSTEMS (NOT USED)

THE MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS. TESTING SHALL BE PERFORMED BY USING FALL POTENTIAL METHOD.

SHEET NUMBER:-

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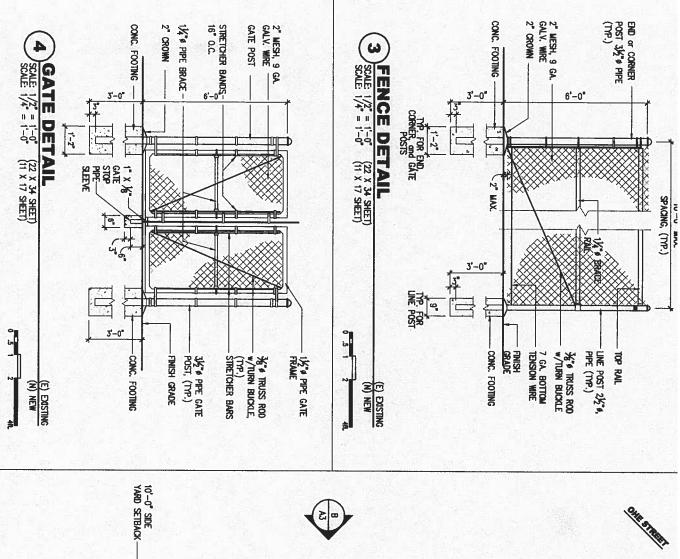
EACH CONDUCTOR OF ALL SYSTEMS MUST BE PERMANENTLY LABELED/TAGGED IN EACH PANEL BOARD, PULLBOX, J-BOX, ETC.



ARCHITECTS INTERIORS

THE RESERVE THE PERSON NAMED IN
SOO ALA MOANA BOLLEVARD 5 WATERFRONT PLAZA, SUITE 345 PHONOLULU, KAWAII 98813 PHONE 808.524.3446

REV. DATE: SHEET TITLE: CURRENT ISSUE DATE/ISSUED FOR: ·ISSUE: LICENSURE: HONOLULU, HAWAII 96813 111 OHE STREET HAWAII CHILDREN'S DISCOVERY CTR HON POINT PANIC NEW TELECOM. FACILITY TMK: 2-1-060:017 ROJECT INFORMATION-PROFESSIONAL ARCHITECT erizon wireless 7/13/2015 -- PERMIT No. 9115 SPECIFICATIONS DESCRIPTION: Say out JOB NO.:-



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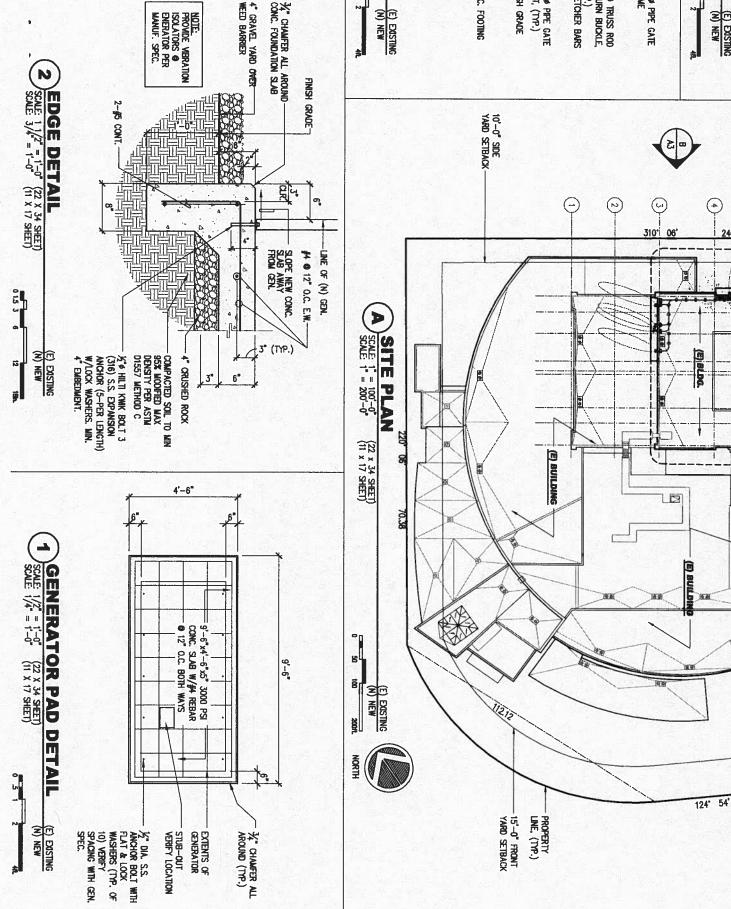
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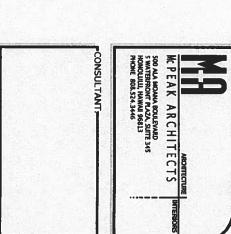


1. FENCING MATERIALS SHALL BE OF ALUMINUM OR GALVANIZED STEEL TO MATCH EXISTING.

CHAIN LINK FENCE NOTES

- POST, BRACES and GATE FRAMES SHALL BE SCH. 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE NOMINAL DIAMETER
- DOUBLE SWING GATE SHALL BE PROVIDED W/TUBULAR PLUNGER BAR, 1 LOCK KEEPER, 1 LOCK KEEPER GUIDE, 2 LATCH FORKS, 2 FORK CATCHES, 1 CATCH FOR PLUNGER BAR, and 2 GATE STOPS.
- POSTS, CAPS and other necessary fence fittings shall be as manuf. By the fence manuf. Of equal except hinges shall be of galv. Steel
- POSTS SHALL BE SPACED EQUIDISTANT BUT NOT MORE THAN 10' O.C. ALUMINUM POSTS EMBEDDED IN CONCRETE SHALL BE COATED INSIDE and OUT TO DEPTH OF EMBEDMENT PLUS 4" w/ZINC CHROMATE PRIMER and ALUMINUM PIGMENTED BITUMINUS PAINT.
- WHERE GALVANIZED STEEL HINGES ARE USED ON ALUMINUM POSTS THEY SHALL BE INSULATED TO PREVENT GALVANIC ACTION.





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YARD SETBACK

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AREA OF WORK

(N) VERIZON WRELESS EQUIPMEN
AND PANEL ANTENNAS

ISSUE: JOB NO.:-

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ROJECT INFORMATION:

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HAWAII CHILDREN'S DISCOVERY CTR 111 OHE STREET HONOLULU, HAWAII 96813 MK: 2-1-060:017

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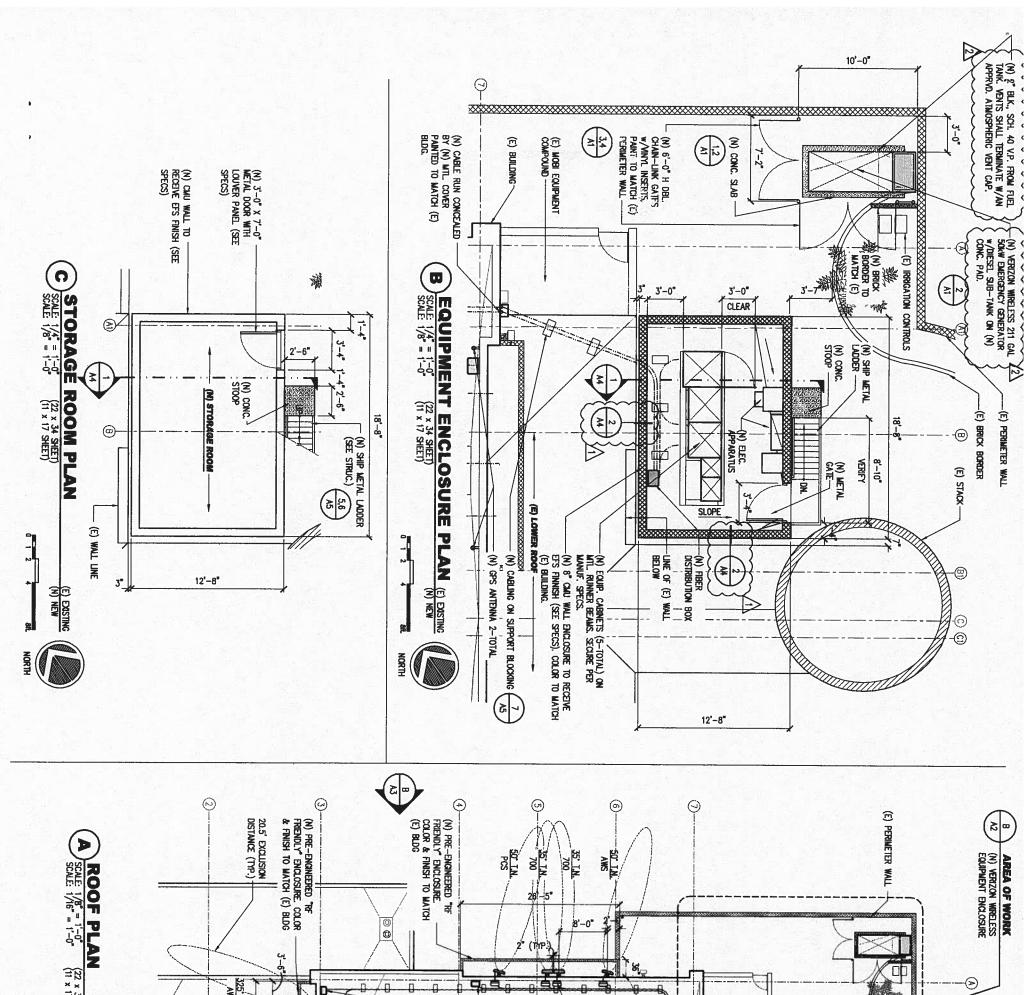
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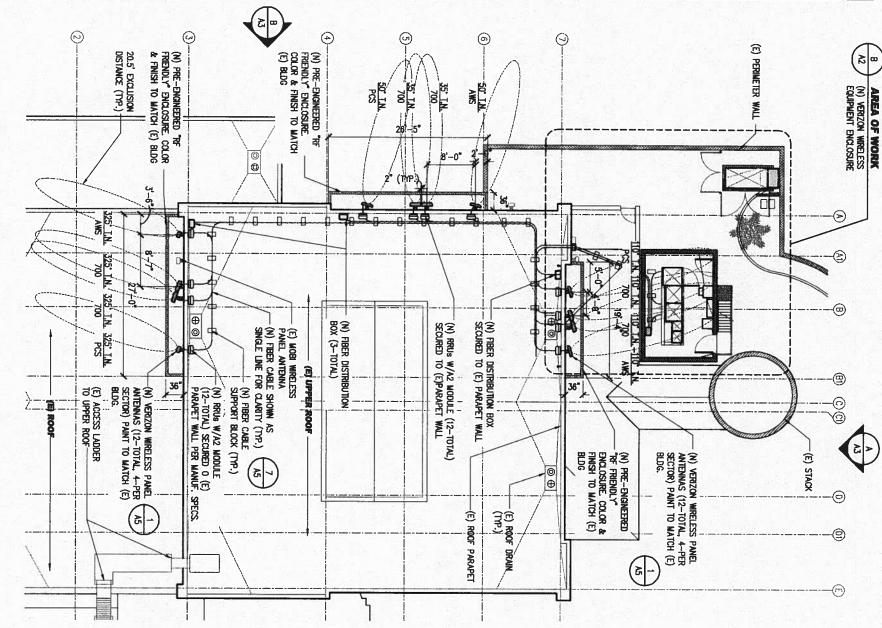
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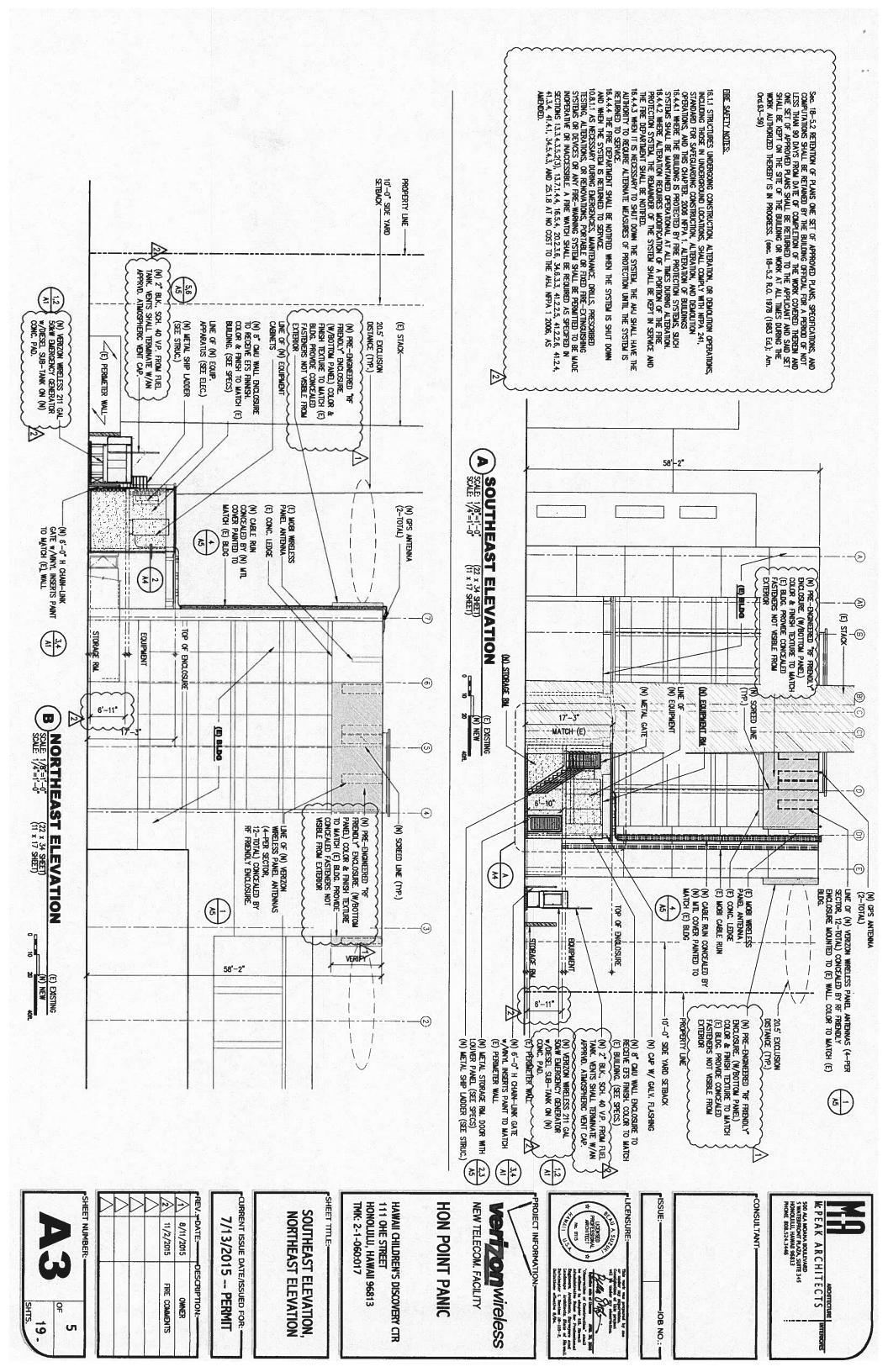
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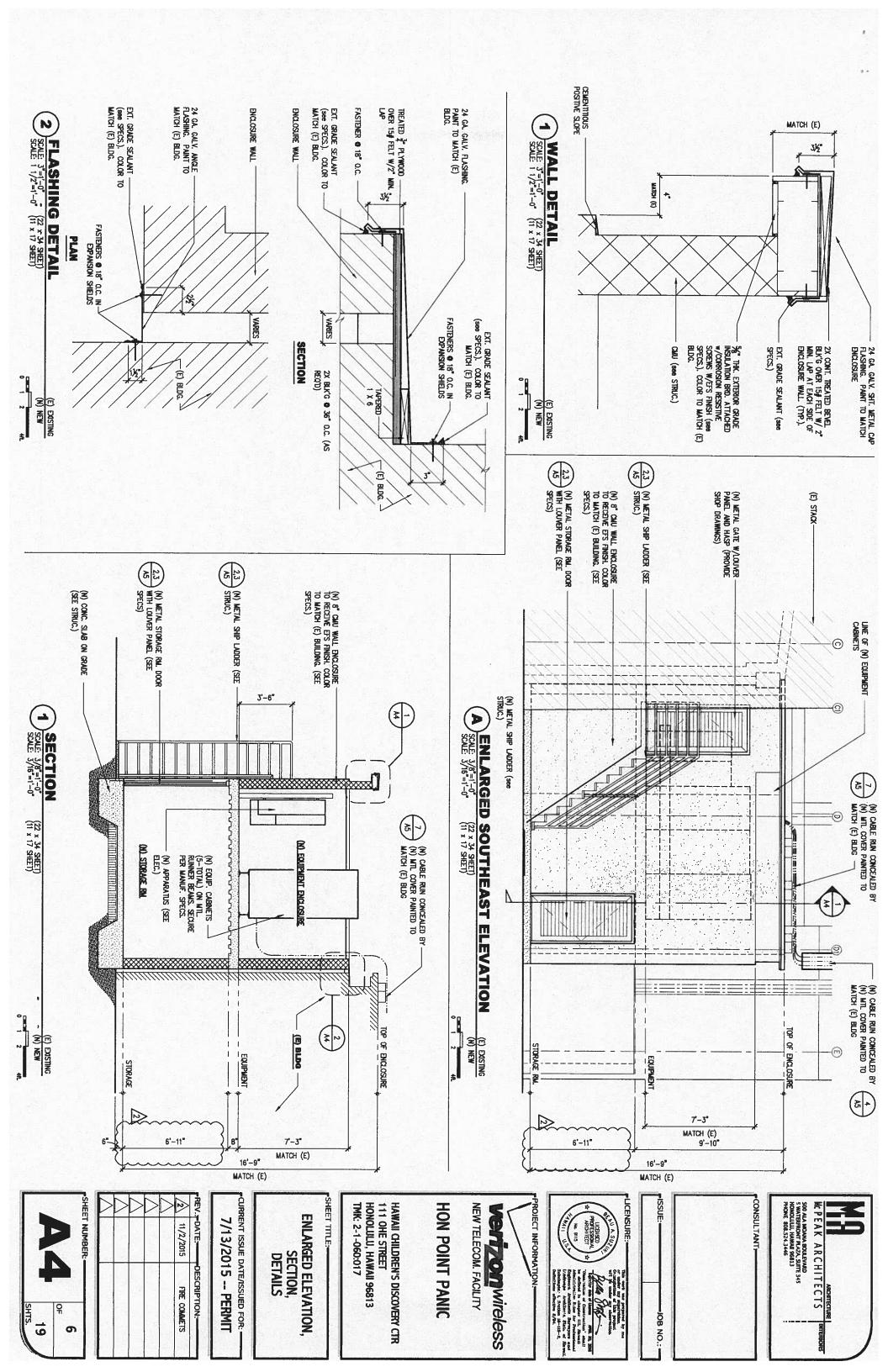
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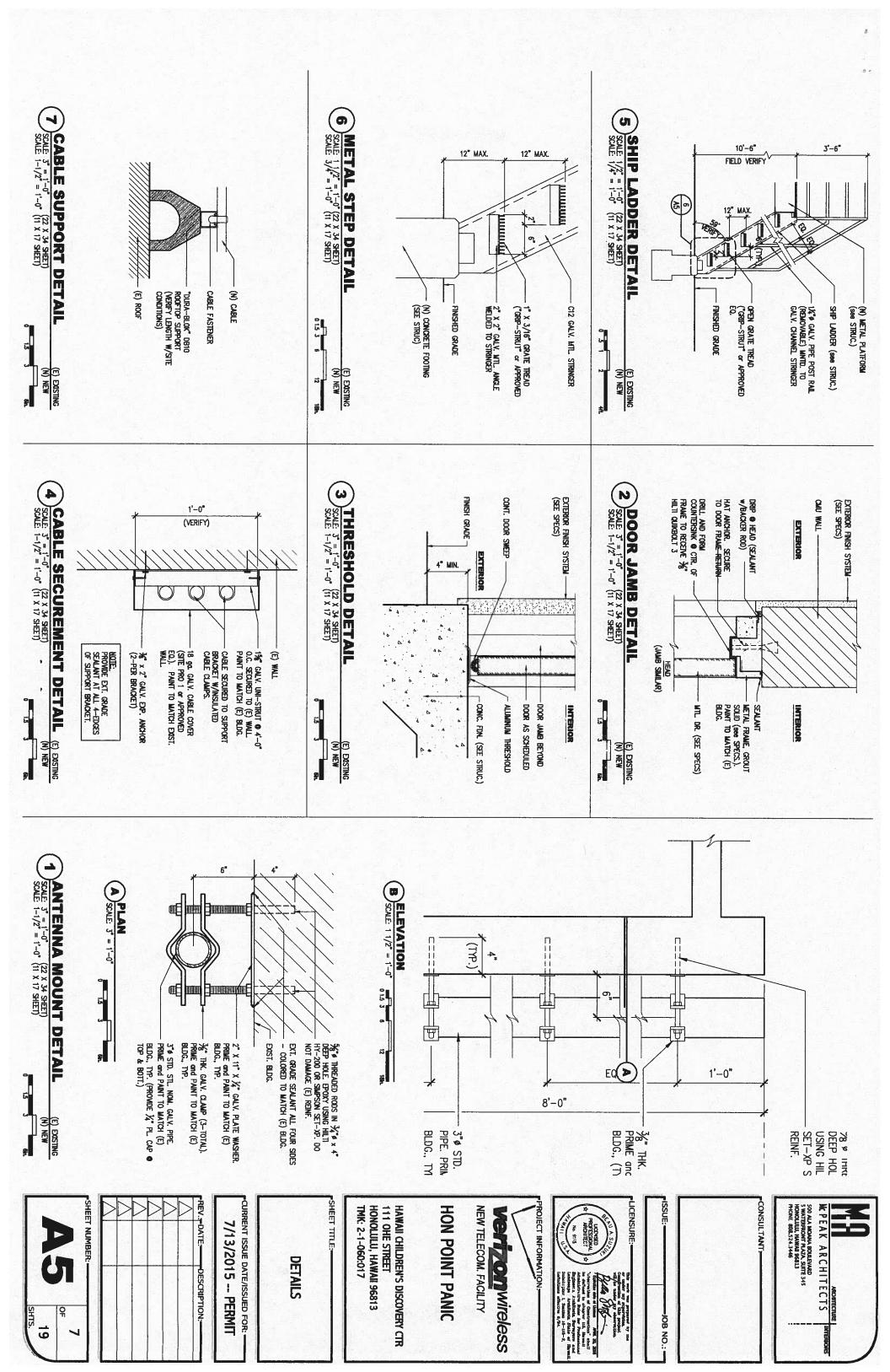
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SOO ALA MOANA BOULEVARD 5 WATERFRONT PLAZA, SUITE 345 HONOLULU, HAWAII 96813 PHONE 808.524.3446

MC PEAK ARCHITECTS







- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STATE BUILDING CODE OF HAWAII (BC, 2006 EDITION AS AMENDED BY THE CITY AND COUNTY OF HONOLULU). HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE ARCHITECT ALL INCONSISTENCIES AND OMISSIONS.
- THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ARCHITECT ALL INCONSISTENCIES AND OMISSIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORMING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.
- CONSTRUCTION LOADING SHALL NOT EXCEED DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED FULL DESIGN STRENGTH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.

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3,000 PSI 3,000 PSI

- DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS.

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DESIGN CRITERIA:

DESIGN LIVE LOADS A. PLATFORM — B. STAIRS — NS NS A. SEISMIC IMPORTANCE FACTOR: B. MAPPED SPECITIAL RESPONSE ACCELERATIONS: A. SS B. SI C. SPECITIAL RESPONSE COEFFICINITS: SEISMIC BASIC SEISMIC FORCE RESIS DESIGN BASE SHEAR: SEISMIC RESPONSE COEFFICENT: RESPONSE MODIFICATION FACTOR: ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE WIND EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING WIND IMPORTANCE FACTOR & BUILDING CATEGORY— SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY -100 PSF 0.18 -29 PSF 0.613 19.3 KIPS 0.191 3.5 .5 8 MPH

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CLEAR CONCRETE COVER FOR FOLLOWS, UNLESS OTHERWISE

REINFORCING BARS SHALL BE AS NOTED:

FOOTINGS CAST AGAINST EARTH
FOOTINGS FORMED AND EXPOSED
TO EARTH OR WEATHER —

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

REINFORCING STEEL:

- CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATION FROM SURFACE WATER, GROUND WATER OR SEEPAGE.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING SHEETING, AND SHORING NECESSARY TO PRESERVE EXCAVATIONS AND EARTH

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CLEAR DISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF A MASONRY UNIT SHALL BE NOT LESS THAN 1/2 INCH, UNLESS OTHERWISE NOTED.

FACES EXPOSED TO EARTH OR WEATHER -1 1/2"

REINFORCING STEEL SHALL BE SPUCED WHERE INDICATED ON PLANS. PROVIDE LAP SPUCE LENGTH PER TYPICAL DETAILS AND SCHEDULE, UNLESS OTHERWISE NOTED.

- FOOTINGS SHALL BEAR ON UNDISTURBED IN—SITU FIRM SOILS OR PROPERLY COMPACTED STRUCTURAL FILL. STRUCTURAL FILL SHALL CONSTST OF SELECT GRANULAR MATERIAL. BOTTOM OF FOOTINGS SHALL BE COMPACTED TO PROVIDE A RELATIVELY FIRM AND SMOOTH BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. BOTTOM OF FOOTINGS SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.
- IF SOFT AND/OR LOOSE MATERIALS ARE ENCOUNTERED AT THE BOTTOM OF FOOTING EXCAVATONS, THEY SHALL BE OVER-EXCAVATED TO EXPOSE THE UNDERLYING FIRM MATERIALS. THE OVER-EXCAVATION SHALL BE BACKFILLED WITH STRUCTURAL FILL PLACED IN LIFTS NO GREATER THAN 6 INCHES THICK PRIOR TO COMPACTION, AND COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION OR THE FOOTING BOTTOM MAY BE EXTENDED DOWN TO THE JNDERLYING COMPETENT MATERIAL
- SLAB-ON-GRADE SUBGRADES SHALL BEAR ON UNDISTURBED IN-SITU FIRM SOILS OR PROPERLY COMPACTED STRUCTURAL FILL STRUCTURAL FILL SHALL CONSIST OF SELECT GRANULAR MAIERIAL. BOTTOM OF SLABS-ON-GRADE SHALL BE COMPACTED TO PROVIDE A RELATIVELY FIRM AND SMOOTH BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. SLAB-ON-GRADE SUBGRADES SHALL BE COMPACTED TO A MINIMUM OF 95%

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BAR BENDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE WITH ACI 318.

CONCRETE MASONRY UNITS (CMU)

FOUNDATION (CONT):

- IF SOFT AND/OR LOOSE MATERIALS ARE ENCOUNTERED AT THE BOTTOM OF SLAB-ON-GRADE EXCAVATIONS, THEY SHALL BE OVER-EXCAVATION TO EXPOSE THE UNDERLYNG FIRM MATERIALS. OVER-EXCAVATION SHALL BE BACKFILLED WITH STRUCTURAL FILL PLACED IN LIFTS NO GREATER THAN 6 INCHES THICK PRIOR TO COMPACTION, AND COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. 末 REINFORCED MASONRY ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
- œ CONCRETE MASONRY UNITS SHALL BE TYPE II, NORMAL WEIGHT HOLLOW LOAD-BEARING UNITS CONFORMING TO ASTM C-90 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI.
- MORTAR SHALL BE TYPE "N" CONFORMING TO ASTM C270 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

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- GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- ALL CELLS AND BOND COURSES WITH REINFORCEMENT AND INSERTS SHALL BE SOULD GROUTED. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5'-4" IN HEIGHT.
- 'n WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1 1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE

CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE ACI 318R-05.

CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED THEIR FULL DESIGN STRENGTH.

- 9 CONDUITS SHALL BE LOCATED A MINIMUM OF TWO CELLS AWAY FROM WALL ENDS, CORNERS, AND INTERSECTIONS.
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- THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES.
- all inserts, anchor bolts, plates, and other items to be cast in the concrete shall be hot-dipped galvanized unless otherwise noted. CONCRETE DELIVERY TICKETS SHALL RECORD ALL FREE WATER IN THE MIX: AT BATCHING BY PLANT, FOR CONSISTENCY BY DRIVER, AND ANY ADDITIONAL REQUEST BY CONTRACTOR IF PERMITTED BY THE MIX DESIGN. WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND, UNLESS OTHERWISE NOTED.
- REINFORCING BARS, ANCHOR BOLTS, INSERTS, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE. UNLESS OTHERWISE NOTED, CMU WALLS SHALL BE REINFORCED AS FOLLOWS: 8 INCHES THICK #4624" O.C. VERTICAL REINF 2-#4648" HORIZ REINF
- THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:
- A. STEEL RENFORCEMENT SHOP DRAWINGS WHICH SHALL INCLUDE DETAILS OF FABRICATION, BENDING, PLACEMENT, MATERIAL, GRADE, SCHEDULES, AND BENDS, PREPARED ACCORDING TO ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT. B. MATERIAL CERTIFICATES, SIGNED BY MANUFACTURERS CERTIFYING THAT THE MATERIAL AND GRADE INDICATED FOR REINFORCING BARS COMPLY WITH THE REQUIREMENTS.

THE ARCHITECT SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS PRIOR TO ANY CONCRETE POUR. NO CONCRETE SHALL BE POURED PRIOR TO OBSERVATION BY THE ARCHITECT OR HIS REPRESENTATIVE.

NON-SHRINK GROUT SHALL BE A PREMIXED NON-METALLIC FORMULA, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 1 DAY AND 5,000 PSI IN 28 DAYS.

THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:

CONCRETE MIX DESIGNS SHALL BE PREPARED FOR EACH TYPE AND STRENGTH OF CONCRETE REQUIRED, DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD DATA BASES, AS FOLLOWS:

1. NORMAL WEIGHT CONCRETE SHALL BE PROPORTIONED ACCORDING TO ACI 211.1 AND ACI 301.

2. CONCRETE FOR FOUNDATIONS SHALL HAVE A 5" MAXIMUM STILLE

CONCRETE FOR SLABS-ON-GRADE SHALL HAVE A MINIMUM CEMENT CONTENT OF 470 LBS/C.Y. AND A 4" MAXIMUM SLUMP.

EPOXIED ANCHOR INSTALLATIONS:

- EPOXY USED FOR ANCHORING THREADED RODS AND REINFORCING STEEL INTO EXISTING CONCRETE SHALL BE HILTI HIT HY-200A SYSTEM, SIMPSON SET-XP SYSTEM, OR APPROVED EQUAL, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- EPOXY USED FOR ANCHORING THREADED RODS AND REINFORCING STEEL INTO EXISTING MASONRY SHALL BE HILTI HIT HY-70 SYSTEM, SIMPSON SET-XP SYSTEM, OR APPROVED EQUAL, AND SHALL BE INSTALLED PER ANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VERBY THAT DRILLED ANCHORS ARE INSTALLED IN SOLID/FULLY GROUTED EXISTING MASONRY WALLS/CELLS. WHERE WALLS/CELLS ARE NOT FULLY GROUTED, THEY SHALL BE GROUTED WITH GROUT CONFORMING TO ASTIM C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS, TO PROVIDE A MINIMUM OF 8 INCHES ALL AROUND EACH ANCHOR INSTALLATION, UNLESS OTHERWISE CONTRACTORS.
- ANCHORS SHALL BE INSTALLED WITH THE MINIMUM EMBEDMENT REQUIREMENTS AS INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL:

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION. 7
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.
- STEEL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992.
- STEEL CHANNELS SHALL CONFORM TO ASTM A36.
- STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B.

BAR LAPS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS. UNLESS NOTED OTHERWISE, SPLICES, LAPS, DOWEL EXTENSIONS AND EMBEDNENTS SHALL BE 48 BAR DIAMETERS, BUT NOT LESS THAN 24 INCHES. SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

UNLESS OTHERWISE NOTED, ALL HORIZONTAL REINFORCING STEEL AT WALL AND WALL FOOTING CORNERS AND INTERSECTIONS SHALL EXTEND TO THE FAR FACE OF THE CORNER AND HOCKED A LENGTH OF 48 BAR CHARLETERS, BUT NOT LESS THAN 24 INCHES, AROUND THE

- INDICATOR WASHERS. HIGH-STRENGTH BOLTS FOR STRUCTURAL STEEL TO STRUCTURAL STEEL CONNNECTIONS SHALL CONFORM TO ASTM A325, TYPE N. USE LOAD
- THREADED RODS SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED
- ANCHOR RODS FOR STRUCTURAL STEEL TO CMU WALL OR CONCRETE FOOTING ANCHORAGE SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS
- WELDING CODE AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
- WELDING SHALL BE PERFORMED BY WELDERS PREQUALIFIED FOR WELDING PROCEDURES TO BE USED.
- MELDING ELECTRODES SHALL BE E70XX

STRUCTURAL STEEL (CONT)

- ALL STEEL SHALL BE HOT-DIPPED GALVANIZED.
- THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:
- SHOP DRAWINGS DETAILING FABRICATION OF S' COMPONENTS INCLUDING DETAILS OF CUTS, CO WELDS: TYPE, SIZE AND LENGTH OF BOLTS; A STRUCTURAL STEEL CONNECTIONS, HOLES; AND OTHER PERTINENT
- CURRENT WELDER'S CERTIFICATION OF EACH INDIVIDUAL PERFORMING WORK.

 WELDING WORK.

 MILL TEST REPORTS SIGNED BY MANUFACTURERS CERTIFYING THAT STRUCTURAL STEEL, BOLTS, AND OTHER COMPONENTS COMPLY WITH REQUIREMENTS.

SPECIAL INSPECTION:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU, IS MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND PAY FOR RE—INSPECTION.
- THE FOLLOWING STRUCTURAL WORK REQUIRES SPECIAL INSPECTION:
- CONCRETE
 DRILLED AND EPOXIED THREADED RODS IN MARCHEOROUG STEEL
 STRUCTURAL WELDING
 HIGH STRENGTH BOLTING
 STRUCTURAL MASONRY MASONRY & CONCRETE

- PERIODIC INSPECTION OF THE REINFORCING OF REQUIRED. ALL CONCRETE FOOTINGS SHALL BE

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- D. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE OWNER. LUCKNEED ENGINEER OR ARCHITECT OF RECORD, AND OTHER OWNER-DESIGNATED PERSONS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE OWNER AND LUCENSED ENGINEER OR ARCHITECT OF RECORD, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE. PRIOR TO THE FINAL INSPECTION REQUIRED UNDER THE BUILDING CODE SECTION 109.3.10 THE LUCKNSED ENGINEER OR ARCHITECT OF RECORD SHALL SUBMIT A WRITTEN STATEMENT VERFITING RECEIPT OF THE FINAL INSPECTION REPORTS AND DOCUMENTING THAT THERE ARE NO UNRESOLVED CODE REQUIREMENTS THAT CREATE SIGNIFICANT PUBLIC SAFETY DEFICIENCIES.
- CONTRACTOR SHALL SUBMIT A STATEMENT CONTAINING AN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED ON THE DRAWNIGS AND THAT THE CONSTRUCTION REQUIRING SPECIAL INSPECTIONS WILL BE MADE ACCESSIBLE FOR INSPECTIONS.

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98-029 HEWAN STREET, SUITE 37 AIEA, HAWAII 98-70.1 PH; (808) 486-520.2 FAX: (808)486-520.6 email: mail@iwamotallc.com STRUCTURAL ENGINEERS IWAMOTO & ASSOCIATES, LLC

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ROJECT INFORMATION:

NEW TELECOM. FACILITY enzon wireless

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111 OHE STREET HONOLULU, HAWAII 96813 MK: 2-1-060:017

HAWAII CHILDREN'S DISCOVERY CTR

SHEET TITLE:

GENERAL NOTES

CURRENT ISSUE DATE/ISSUED FOR: -7/13/2015 -- PERMIT

REV .; DATE:--DESCRIPTION:-

SHEET NUMBER: -19 00