

Seal:

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 CIVIL ENGINEER:
 Meridian Engineering, LLC
 LANDSCAPE ARCHITECT:
 Craig Reynolds, RLA
 IRRIGATION DESIGN:
 Crawford Irrigation Design, Inc.

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NELSON ENGLISH / WILLIE WARD
PARK ENHANCEMENT PROJECT
mbi | k2m
CITY OF KEY WEST
 300 Catherine Street, Key West, Florida 33040

Drawing Size | Project #:
 Drawn By: | Checked By:

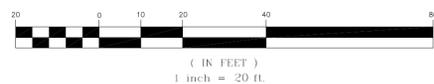
Title:
DRAINAGE PLAN

Sheet Number:
C-1
 Date: October 01, 2012
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KEY NOTES:

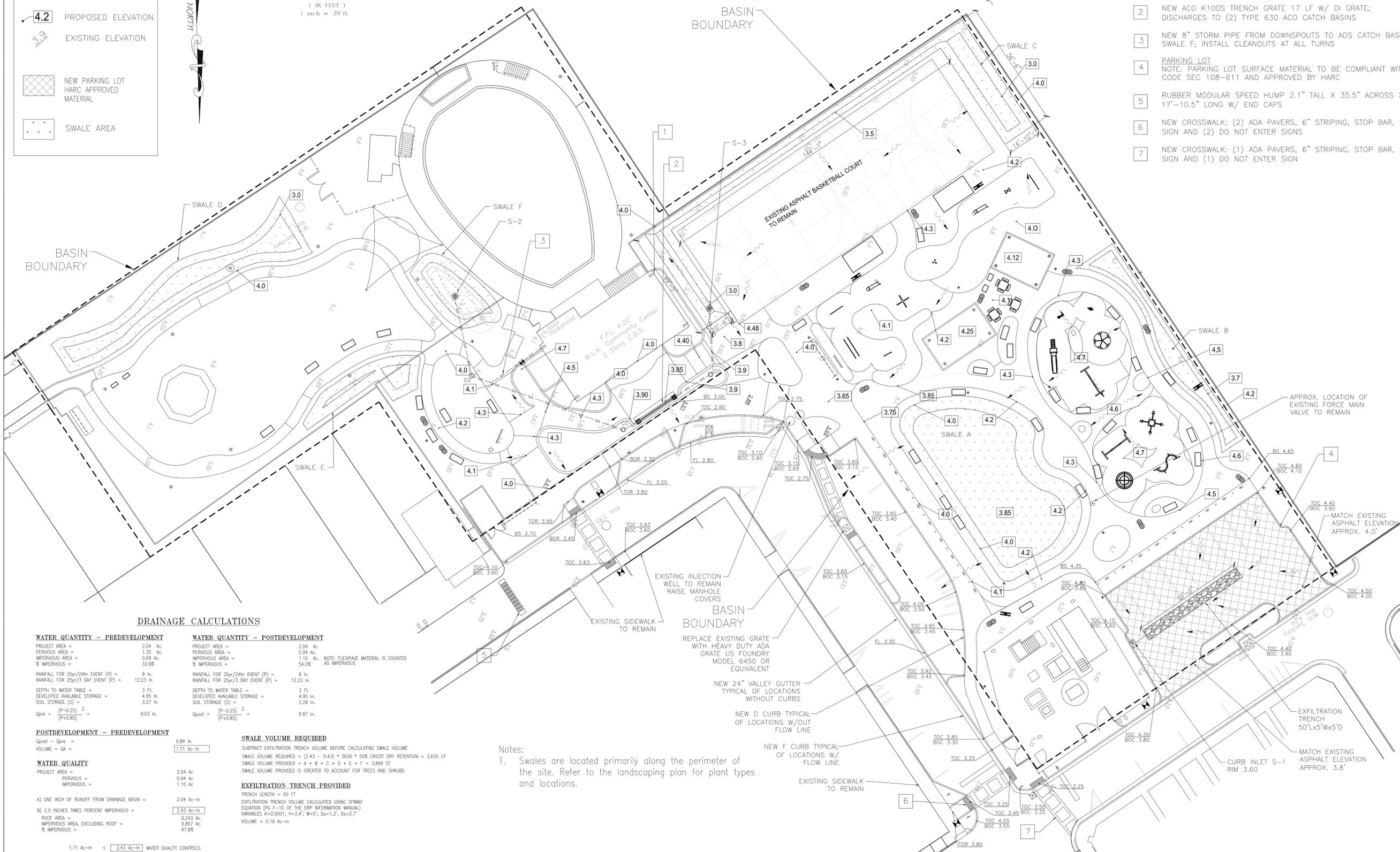
- 1 DOWNSPOUTS ON WEST SIDE OF BUILDING DISCHARGE TO SWALE C
- 2 NEW ACO K100S TRENCH GRATE 17 LF W/ DI GRATE; DISCHARGES TO (2) TYPE 630 ACO CATCH BASINS
- 3 NEW 8" STORM PIPE FROM DOWNSPOUTS TO ADS CATCH BASIN IN SWALE F; INSTALL CLEANOUTS AT ALL TURNS
- 4 **PARKING LOT**
 NOTE: PARKING LOT SURFACE MATERIAL TO BE COMPLIANT WITH KW CODE SEC 108-611 AND APPROVED BY HARC
- 5 RUBBER MODULAR SPEED HUMP 2.1" TALL X 35.5" ACROSS X 17'-10.5" LONG W/ END CAPS
- 6 NEW CROSSWALK: (2) ADA PAVERS, 6" STRIPING, STOP BAR, STOP SIGN AND (2) DO NOT ENTER SIGNS
- 7 NEW CROSSWALK: (1) ADA PAVERS, 6" STRIPING, STOP BAR, STOP SIGN AND (1) DO NOT ENTER SIGN

GRAPHIC SCALE



LEGEND

- DRAINAGE FLOW
- PROPOSED ELEVATION
- EXISTING ELEVATION
- NEW PARKING LOT HARC APPROVED MATERIAL
- SWALE AREA



DRAINAGE CALCULATIONS

WATER QUANTITY - PREDEVELOPMENT		WATER QUANTITY - POSTDEVELOPMENT	
PROJECT AREA =	2.04 Ac.	PROJECT AREA =	2.04 Ac.
PERVIOUS AREA =	1.35 Ac.	PERVIOUS AREA =	0.94 Ac.
IMPERVIOUS AREA =	0.69 Ac.	IMPERVIOUS AREA =	1.10 Ac.
% IMPERVIOUS =	33.8%	% IMPERVIOUS =	54.0%
RAINFALL FOR 25yr/24hr EVENT (P) =	9 in.	RAINFALL FOR 25yr/24hr EVENT (P) =	9 in.
RAINFALL FOR 25yr/3 DAY EVENT (P) =	12.23 in.	RAINFALL FOR 25yr/3 DAY EVENT (P) =	12.23 in.
DEPTH TO WATER TABLE =	3 Ft.	DEPTH TO WATER TABLE =	3 Ft.
DEVELOPED AVAILABLE STORAGE =	4.95 in.	DEVELOPED AVAILABLE STORAGE =	4.95 in.
SOIL STORAGE (S) =	3.27 in.	SOIL STORAGE (S) =	2.28 in.
Qpre = $\frac{(P-0.2S)^2}{(F+0.8S)}$	9.03 in.	Qpost = $\frac{(P-0.2S)^2}{(F+0.8S)}$	9.87 in.

POSTDEVELOPMENT - PREDEVELOPMENT

Qpost - Qpre = 0.84 in.
 VOLUME = QA = 1.71 Ac-in

WATER QUALITY

PROJECT AREA = 2.04 Ac.
 PERVIOUS = 0.94 Ac.
 IMPERVIOUS = 1.10 Ac.

A) ONE INCH OF RUNOFF FROM DRAINAGE BASIN = 2.04 Ac-in
 B) 2.5 INCHES TIMES PERCENT IMPERVIOUS = 2.43 Ac-in
 ROOF AREA = 0.243 Ac.
 IMPERVIOUS AREA, EXCLUDING ROOF = 0.857 Ac.
 % IMPERVIOUS = 47.8%

1.71 Ac-in < 2.43 Ac-in WATER QUALITY CONTROLS

SWALE VOLUME REQUIRED

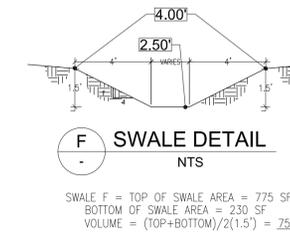
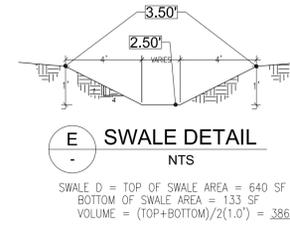
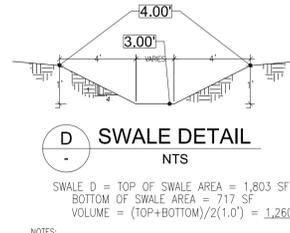
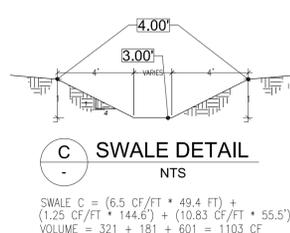
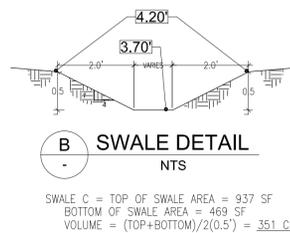
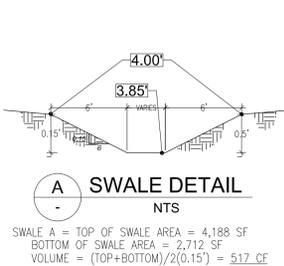
SUBTRACT INFILTRATION TRENCH VOLUME BEFORE CALCULATING SWALE VOLUME
 SWALE VOLUME REQUIRED = (2.43 - 0.43) * 3630 * 50% CREDIT DRY RETENTION = 3,630 CF
 SWALE VOLUME PROVIDED = A + B + C + D + E + F = 3,899 CF
 SWALE VOLUME PROVIDED IS GREATER TO ACCOUNT FOR TREES AND SHRUBS

EXFILTRATION TRENCH PROVIDED

TRENCH LENGTH = 50 FT
 EXFILTRATION TRENCH VOLUME CALCULATED USING SPWIND EQUATION (PG F-10 OF THE ERP INFORMATION MANUAL)
 VARIABLES K=0.0001; H=2.4'; W=5'; Du=1.5'; Ds=2.7'
 VOLUME = 0.19 Ac-in

Notes:

1. Swales are located primarily along the perimeter of the site. Refer to the landscaping plan for plant types and locations.



NOTES:
 1. ALL SWALES SHALL HAVE GROUND COVER.

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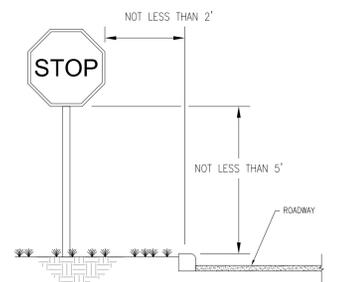
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MK-11035
Drawn By: Checked By:

Title:
CIVIL DETAILS

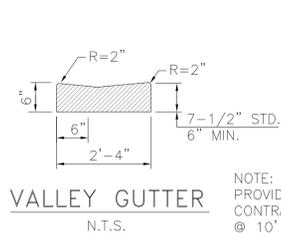
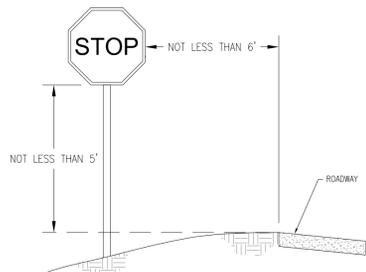
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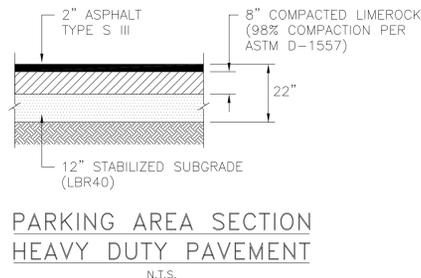
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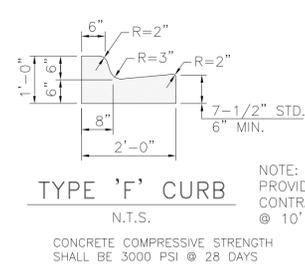
STOP SIGN DETAIL
N.T.S.



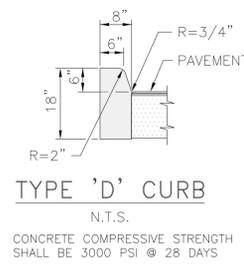
VALLEY GUTTER
N.T.S.
NOTE: PROVIDE 1/8"-1/4" CONTRACTION JOINTS @ 10' CENTERS. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI @ 28 DAYS



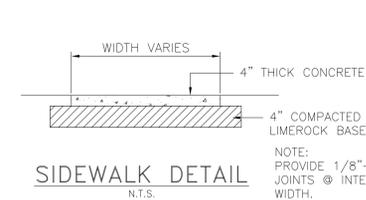
PARKING AREA SECTION
HEAVY DUTY PAVEMENT
N.T.S.



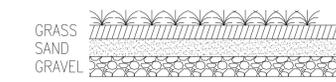
TYPE 'F' CURB
N.T.S.
NOTE: PROVIDE 1/8"-1/4" CONTRACTION JOINTS @ 10' CENTERS. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI @ 28 DAYS



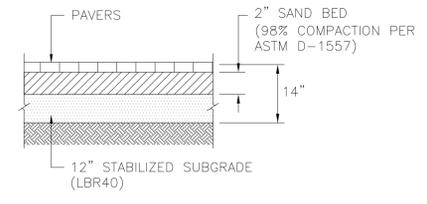
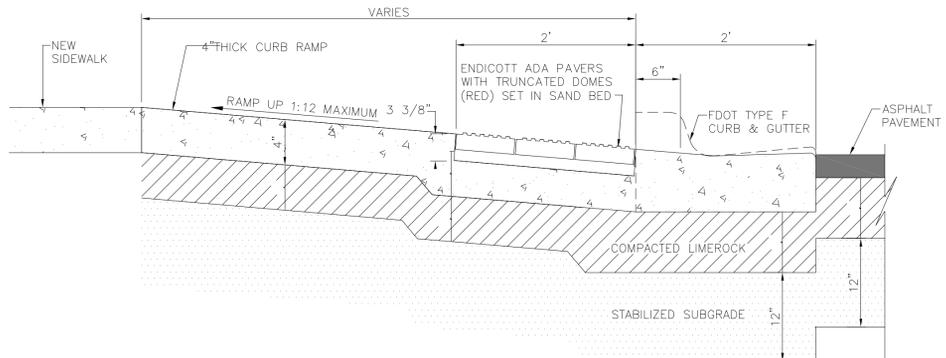
TYPE 'D' CURB
N.T.S.
NOTE: PROVIDE 1/8"-1/4" CONTRACTION JOINTS @ 10' CENTERS. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI @ 28 DAYS



SIDEWALK DETAIL
N.T.S.
NOTE: PROVIDE 1/8"-1/4" CONTRACTION JOINTS @ INTERVALS EQUAL TO WIDTH. PROVIDE EXPANSION JOINTS WHERE NEW SIDEWALKS ADJUT STRUCTURES. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI @ 28 DAYS



SWALE A SOD SECTION
N.T.S.
NOTES:
1. THICKNESS OF LAYERS SHALL BE DETERMINED BY LANDSCAPE ARCHITECT.



PARKING AREA SECTION
PAVEMENT DETAIL
N.T.S.

STOP BAR
STOP BAR SHALL BE 2' WIDE. SEE SHEET C-1 FOR THE LENGTH, AND BE WHITE IN COLOR.

CROSSWALK STRIPING:
CROSSWALK STRIPING SHALL BE APPROX. 6" WIDE. STRIPING SHALL BE WHITE IN COLOR.

PARKING SPACE STRIPING:
PARKING SPACE STRIPING SHALL BE 4" WIDE AND EXTEND THE LENGTH OF THE PARKING SPACE (TYPICALLY 18'). STRIPES SHALL BE WHITE IN COLOR.

SIGNS

STOP SIGNS SHALL CONFORM TO FDOT SPECIFICATIONS (R1-1). DO NOT ENTER SHALL CONFORM TO FDOT SPECS (R5-1) SIGNS SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)

CURB PAINTING

THE TOP AND ROADWAY FACING SIDE OF THE CURBING AT ALL INTERSECTIONS SHALL BE PAINTED YELLOW FOR A MINIMUM DISTANCE OF 8' BEYOND THE CROSSWALK STRIPING.

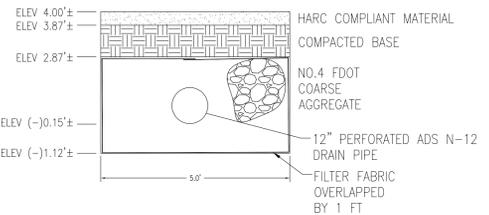
TRAFFIC STRIPING SPECIFICATION

- 1. PAVEMENT TRAFFIC STRIPES AND MARKINGS SHALL BE A COMPOSED ONLY OF THERMOPLASTIC MATERIALS LISTED ON THE FDOT QUALIFIED PRODUCTS LIST (OPL). ALL STRIPING SHALL CONFORM TO SECTION 711 AND SECTIONS 971-5 THROUGH 971-7 OF THE FDOT 2007 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. PRIOR TO APPLICATION OF THERMOPLASTIC STRIPING, THE SURFACE SHALL BE CLEANED OF ALL DUST AND DEBRIS TO INSURE PROPER BONDING.
- 3. WHEN NEW LAYOUTS ARE NECESSARY, PAVEMENT MARKINGS SHALL BE ACCURATELY MEASURED AND MARKED.

STRIPING DETAIL
N.T.S.

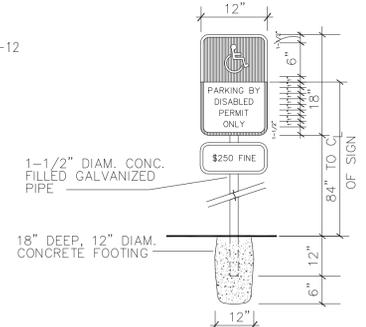
S-1	S-2	S-3
TYPE C CURB INLET	ADS 24" INLET	ADS 24" INLET
G.E. = 3.60	G.E. = 3.50	G.E. = 3.50
INV. = (-)0.15 (15" PIPE)	INV. = 0.5 (8" PIPE)	INV. = 0.5 (8" PIPE)

- NOTES:
- 1. STORM PIPE SHALL BE ADS N-12 ST IB OR ENGINEER APPROVED EQUAL.
 - 2. STORM PIPE SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - 3. TYPE C CATCH BASIN SHALL BE US PRECAST PRODUCT NO. USP 3-3.0 AND US FOUNDRY GRATE 4160-6212 OR ENGINEER APPROVED EQUAL.
 - 4. TYPE C CATCH BASIN GRATE SHALL BE USF 5130-6168 OR ENGINEER APPROVED EQUIVALENT
 - 5. TYPE C CURB INLET GRATE SHALL BE USF 5130-6168 OR ENGINEER APPROVED EQUIVALENT.
 - 6. ADS GRATES SHALL BE 24" LIGHT DUTY PEDESTRIAN RATED



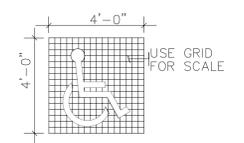
EXFILTRATION TRENCH
N.T.S.

NOTES:
1. FILTER FABRIC SHALL BE MARAFI FILTERWEAVE 300 OR ENGINEER APPROVED EQUIVALENT. FILTER FABRIC SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.



HANDICAP SIGN DETAIL

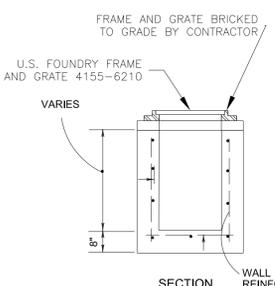
CURB RAMP
N.T.S.



HANDICAP GRAPHIC DETAIL

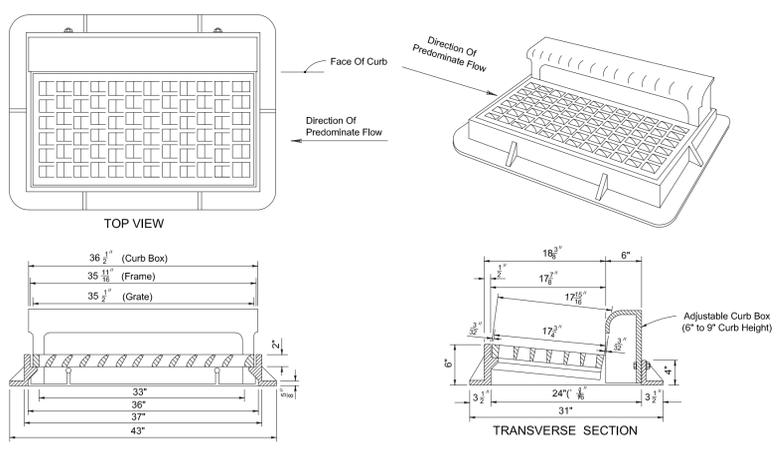
NOTES:
ALL LETTERS ARE 1" SERIES "C". TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER.

ADA DETAIL
N.T.S.

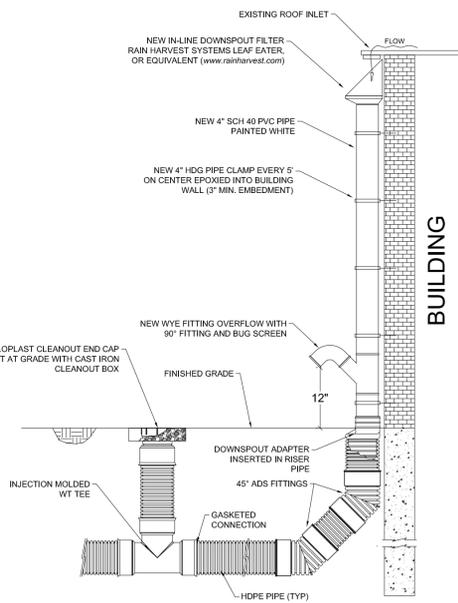


- NOTES:
- 1. CONCRETE SHALL BE 4000 PSI @ 28 DAYS, TYPE II CEMENT
 - 2. FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR.
 - 3. BOTTOM INLETS SHALL BE USP PRODUCT NO. 3-3.0 OR EQUAL.
 - 4. STRUCTURES TO BE SET ON COARSE AGGREGATE BEDDING

TYPE C CATCH BASIN
N.T.S.



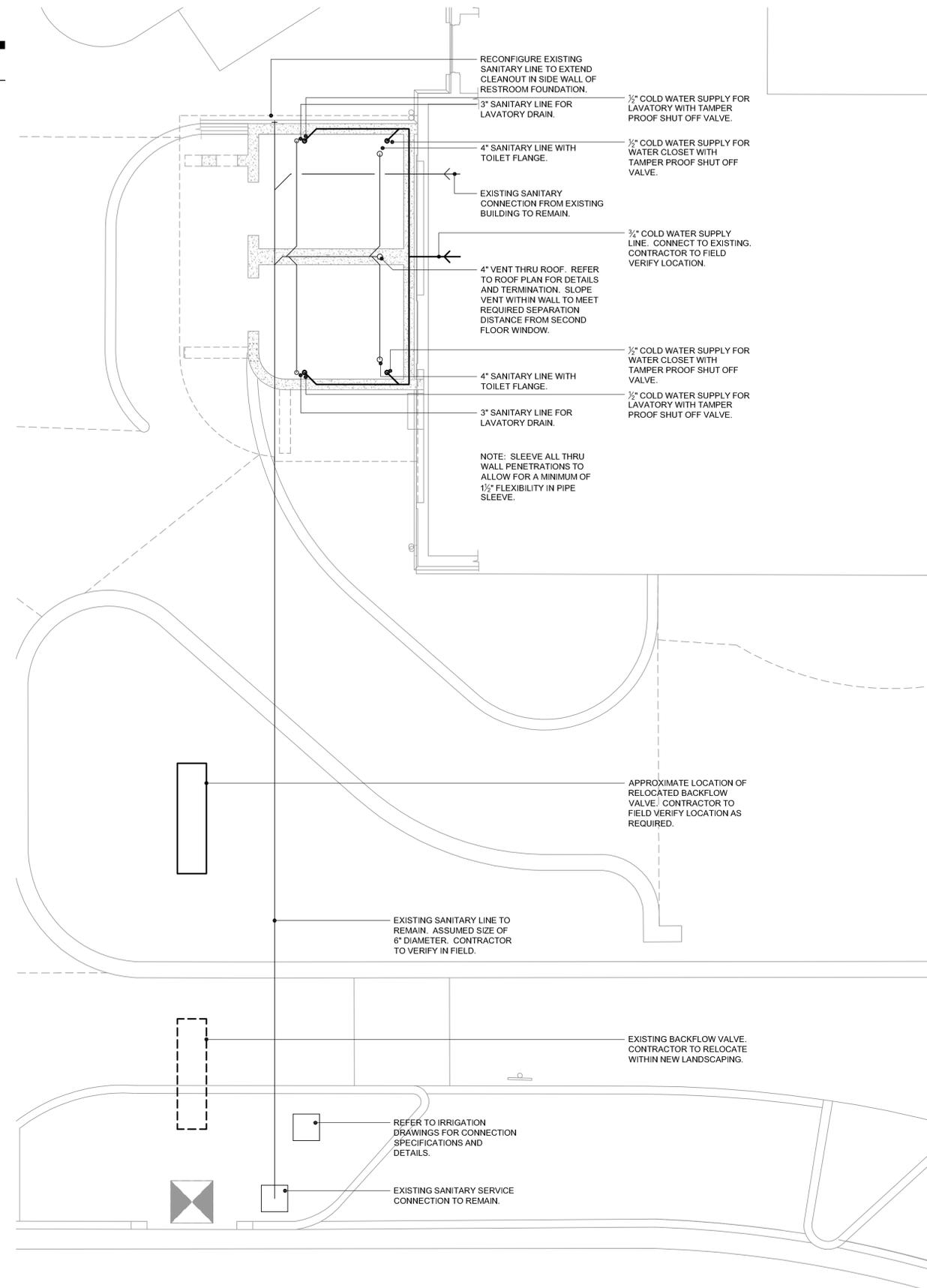
FRAME AND GRATE
CURB INLET DETAIL
N.T.S.



DOWNSPOUT DETAIL
N.T.S.

GENERAL PLUMBING NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL ORDINANCES.
2. BUILDING DRAINAGE SYSTEM TO BE SLOPED AT 1/6" PER FT. MIN. FALL FOR 3" PIPE AND LARGER 1/4" PER FT. SLOPE FOR 2" PIPE SIZE AND SMALLER DEVIATIONS SHALL BE APPROVED BY ARCHITECT.
3. PROVIDE CLEAN OUTS EVERY 75 FT. AND AT BASE OF EVERY WASTESTACK. ALL CLOSE-OUTS TO BE FLUSH MOUNTED.
4. MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
 - 4.1. DRAINAGE WASTE AND VENT PIPING INCLUDING PVC DRAINAGE WASTE AND PIPING (DW) CONFORMING TO ASN D-2665, UNDERGROUND NO HUB CAST IRON CISPI STANDARD 301 ABOVE GROUND AND CAST IRON HUB, PLAIN END ASTII A-74 WITH NEOPRENE GASKETS UNDERGROUND. INSTALL PLASTIC (PVC) PIPES ONLY WHEN IT'S APPROVED BY LOCAL AUTHORITIES.
 - 4.2. WATER PIPING: COPPER TYPE "L" ASTII B-BB ABOVE GROUND AND COPPER TYPE "K" ASN B-88 UNDERGROUND.
 - 4.3. FLOOR CLEAN OUTS: JOSAM SERIES 56020 OR EQUAL.
 - 4.4. WALL CLEAN OUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
 - 4.5. VALVES: 125 PSI NIBCO SCOTT, STOCKHAM OR EQUAL.
5. PERFORM THE FOLLOWING TESTS:
 - 5.1. WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
 - 5.2. DRAINAGE SYSTEM: BEFORE INSTALLATION OF ANY DRAINS, THE END OF THE SYSTEM SHALL BE CAPPED & ALL LINES FILLED WITH WATER TO HIGHEST POINT & ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT.
 - 5.3. CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.
 - 5.4. COMPLETE SYSTEM FIXTURE & EQUIPMENT SHALL BE GIVEN AN IN SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.
 - 5.5. STERILIZE ALL WATER LINES WITH A MIXTURE OF (2) POUNDS OF CHLORINATED LIME TO EACH 1,000 gal. OF WATER (50 PPM OF AVAILABLE CHLORINE.) RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
6. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL AT HIS EXPENSE REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.
7. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION BEFORE COMMENCING ANY WORK.
8. PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHARGES REQUIRED.
9. OFFSET PIPING AS REQUIRED TO CLEAR BUILDING STRUCTURE, DUCTWORK, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS.
10. PLUMBING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.
11. COORDINATE WORK WITH OTHER TRADES.
12. FURNISH AND INSTALL FIXTURES AS SPECIFIED IN SCHEDULE.
13. EACH BATHROOM GROUP SHALL BE PROVIDED WITH SHOCK ABSORBER PER FLORIDA BUILDING CODE.
14. PROVIDE SHUTOFF VALVE FOR EACH FIXTURE, JUST BEFORE CONNECTING TO FIXTURE.
15. WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.



ARCHITECT:
mbi | k2m
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 Architecture, Interior Design,
 Procurement,
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PLOTTED: 10/9/2012 4:00 PM

Drawing Size	Project #:
24x36	MK-11035
Drawn By:	Checked By:
AAG	ADS

Title:

PLUMBING PLAN

Sheet Number:

P1.1.1

Date: October 01, 2012
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01
 P1.1.1

PARTIAL PLUMBING SITE PLAN

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

0 4 8 12
 GRAPHIC SCALE: 1/4" = 1'-0"

P:\City\2011\MK-11035 - City of Key West - Park Enhancement\Design\Arch\111.dwg, 10/9/2012 4:00 PM, Issue: 1/0, Plot: 1/4" = 1'-0", ariano

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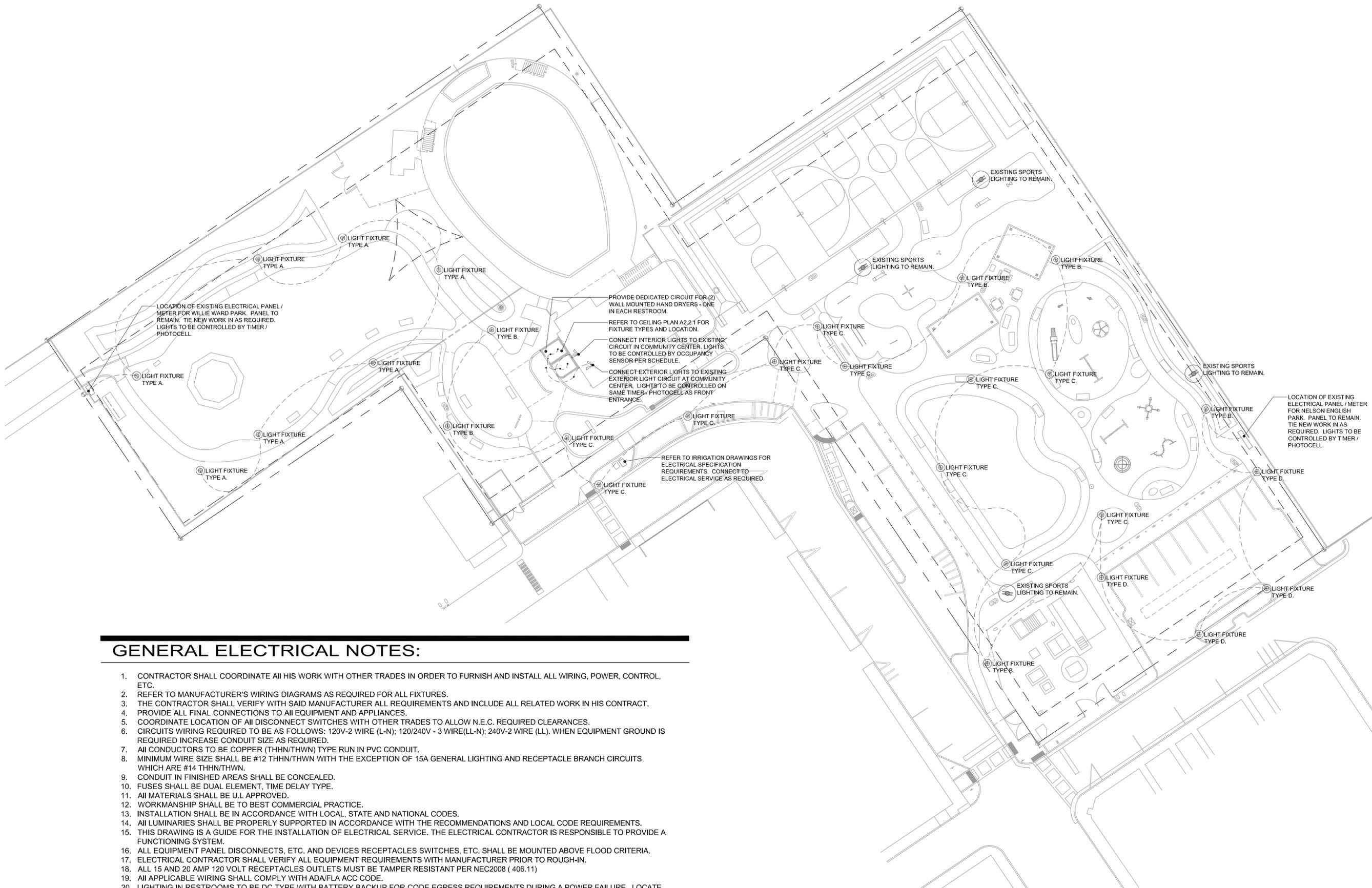
Title:
ELECTRICAL PLAN

Sheet Number:

E1.1.1

Date: October 01, 2012

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GENERAL ELECTRICAL NOTES:

- 1. CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER TRADES IN ORDER TO FURNISH AND INSTALL ALL WIRING, POWER, CONTROL, ETC.
- 2. REFER TO MANUFACTURER'S WIRING DIAGRAMS AS REQUIRED FOR ALL FIXTURES.
- 3. THE CONTRACTOR SHALL VERIFY WITH SAID MANUFACTURER ALL REQUIREMENTS AND INCLUDE ALL RELATED WORK IN HIS CONTRACT.
- 4. PROVIDE ALL FINAL CONNECTIONS TO ALL EQUIPMENT AND APPLIANCES.
- 5. COORDINATE LOCATION OF ALL DISCONNECT SWITCHES WITH OTHER TRADES TO ALLOW N.E.C. REQUIRED CLEARANCES.
- 6. CIRCUITS WIRING REQUIRED TO BE AS FOLLOWS: 120V-2 WIRE (L-N); 120/240V - 3 WIRE(LL-N); 240V-2 WIRE (LL). WHEN EQUIPMENT GROUND IS REQUIRED INCREASE CONDUIT SIZE AS REQUIRED.
- 7. ALL CONDUCTORS TO BE COPPER (THHN/THWN) TYPE RUN IN PVC CONDUIT.
- 8. MINIMUM WIRE SIZE SHALL BE #12 THHN/THWN WITH THE EXCEPTION OF 15A GENERAL LIGHTING AND RECEPTACLE BRANCH CIRCUITS WHICH ARE #14 THHN/THWN.
- 9. CONDUIT IN FINISHED AREAS SHALL BE CONCEALED.
- 10. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE.
- 11. ALL MATERIALS SHALL BE U.L. APPROVED.
- 12. WORKMANSHIP SHALL BE TO BEST COMMERCIAL PRACTICE.
- 13. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.
- 14. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
- 15. THIS DRAWING IS A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
- 16. ALL EQUIPMENT PANEL DISCONNECTS, ETC. AND DEVICES RECEPTACLES SWITCHES, ETC. SHALL BE MOUNTED ABOVE FLOOD CRITERIA.
- 17. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 18. ALL 15 AND 20 AMP 120 VOLT RECEPTACLES OUTLETS MUST BE TAMPER RESISTANT PER NEC2008 (406.11)
- 19. ALL APPLICABLE WIRING SHALL COMPLY WITH ADA/FLA ACC CODE.
- 20. LIGHTING IN RESTROOMS TO BE DC TYPE WITH BATTERY BACKUP FOR CODE EGRESS REQUIREMENTS DURING A POWER FAILURE. LOCATE BATTERY IN SERVICEABLE AREA IN EXISTING COMMUNITY CENTER.



ELECTRICAL PLAN

SCALE: 1"=20'-0"

