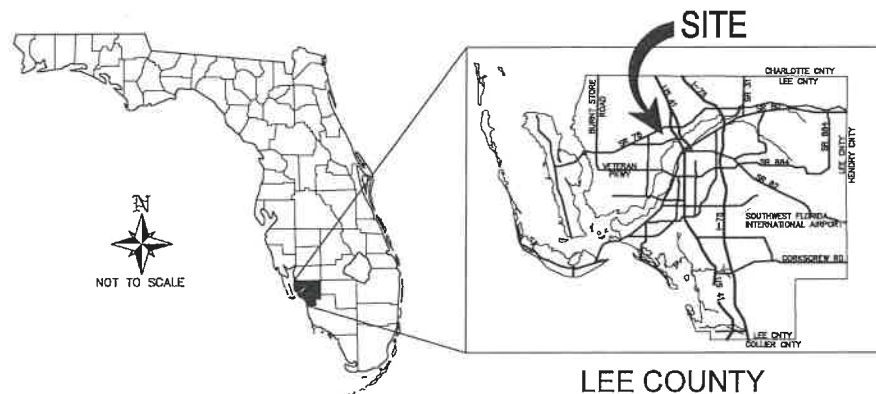
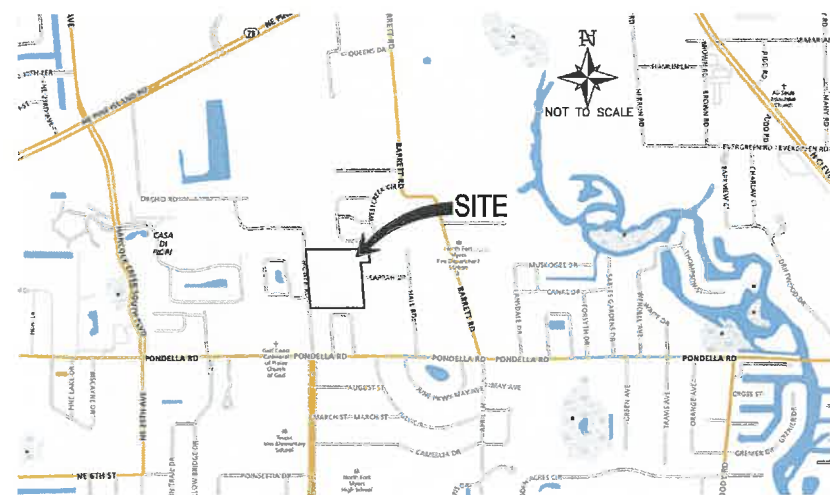


# HABITAT MCNEILL, LLC.

PREPARED FOR:  
**HABITAT MCNEILL, LLC.**  
 1288 NORTH TAMIAMI TRAIL  
 NORTH FORT MYERS FL. 33903



GENERAL LOCATION MAP



LOCATION MAP  
 SECTION 04, TOWNSHIP 44 SOUTH, RANGE 24 EAST  
 LEE COUNTY, FLORIDA

**SITE INFORMATION**

**PROJECT AREA:** 10.54 ACRES  
**PARCEL STRAP NO.:** 04-44-24-00-00047.0010  
 04-44-24-00-00047.0030  
**PARCEL ADDRESS:** 1268 MCNEILL ROAD  
 NORTH FORT MYERS, FL 33903  
**CURRENT ZONING:** RPD(LCO) & RS-1(LCO)  
**PROPOSED USE:** RESIDENTIAL

**UTILITY SERVICE PROVIDERS**

**WATER:**  
 LEE COUNTY UTILITIES 1500 MONROE STREET  
 FORT MYERS, FL 33901  
 PH (239) 533-8181

**SEWER:**  
 LEE COUNTY UTILITIES 1500 MONROE STREET  
 FORT MYERS, FL 33901  
 PH (239) 533-8181

**ELECTRIC:**  
 LEE COUNTY ELECTRIC COOPERATIVE 4941 BAYLINE DRIVE  
 NORTH FORT MYERS, FL 33917  
 PH (239) 995-2121

**PHONE:**  
 CENTURY LINK 2820 CARGO STREET  
 FORT MYERS, FL 33901  
 PH (239) 366-2114

**FIRE PROTECTION:**  
 NORTH FORT MYERS FIRE AND RESCUE 2800 TRAIL DAIRY CIRCLE  
 NORTH FORT MYERS, FL 33917  
 PH (239) 997-8654

**SOLID WASTE DISPOSAL:**  
 WASTE PRO 1311D RICKENBACKER PKWY.  
 FORT MYERS, FL 33913  
 PH (239) 337-0800

**PROJECT CONTACTS**

**CIVIL ENGINEER:**  
 BANKS ENGINEERING 10511 SIX MILE CYPRESS PKWY.  
 FORT MYERS FLORIDA 33966  
 PHONE: (239) 939-5490

**SURVEYOR:**  
 BANKS ENGINEERING 10511 SIX MILE CYPRESS PKWY.  
 FORT MYERS FLORIDA 33966  
 PHONE: (239) 939-5490

**TRAFFIC ENGINEER:**  
 TR TRANSPORTATION CONSULTANTS, INC. 2726 OAK RIDGE COURT, SUITE 503  
 FORT MYERS, FL 33901-9356  
 PHONE: (239) 278-3090

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04	MASTER SITE PLAN
05	MASTER DRAINAGE PLAN
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12	PAVING, GRADING & DRAINAGE DETAILS - 1
13	UTILITY DETAILS (WATER)
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17	BEST MANAGEMENT PRACTICES PLAN

ALL EXISTING ELEVATIONS AND PROPOSED GRADES ARE N.A.V.D. 1988

NAVD88 + 1.2' = NGVD29

## BANKS ENGINEERING

Professional Engineers, Planners, & Land Surveyors  
 Serving The State Of Florida

10511 SIX MILE CYPRESS PARKWAY  
 FORT MYERS, FLORIDA 33966  
 PHONE: (239) 939-5490 FAX: (239) 939-2523  
 ENGINEERING LICENSE # EB 6469  
 SURVEY LICENSE # LB 6690  
 WWW.BANKSENG.COM



SAMUEL W. MARSHALL  
 P.E. LIC. #48881

NO.	DATE	REVISION DESCRIPTION	BY



LEE COUNTY UTILITIES STANDARD PLAN NOTES:

- A. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LEE COUNTY UTILITIES OPERATIONAL MANUAL WHICH IS ON FILE AT THE DIVISION OF LEE COUNTY UTILITIES OFFICE MONROE STREET, P.O. BOX 398, FORT MYERS, FLORIDA 33902.
B. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LOU.
C. AT THE SITE KEEP AND MAINTAIN ONE RECORD COPY OF ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND ALL TECHNICAL DOCUMENTS SUBMITTED IN GOOD ORDER. AS THE WORK PROGRESSES THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL RECORD ON ONE SET OF REPRODUCIBLE DRAWINGS ALL CHANGES AND CONDITIONS FROM THE ORIGINAL DRAWINGS. HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT BY OFFSETS AND TIES AT EACH; SEWER, WATER, ELECTRIC, GAS, COMMUNICATION AND OTHER SERVICES BY OFF-SET DISTANCE TO PERMANENT IMPROVEMENTS SUCH AS BUILDING AND CURBS.
THESE RECORD DRAWINGS MUST BE CERTIFIED BY THE FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO PREPARED THE PLANS AND SIGNS AND SEALS THESE PLANS. THE RECORD DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT OF ALL WATER, SEWER, AND EFFLUENT REUSE LINES, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, PUMP STATIONS, SERVICE CONNECTIONS, METER BOXES AND/OR PADS, AND OTHER PERTINENT STRUCTURES. PERMITS FOR EXCESS 152.4M (500') WITHOUT FITTINGS SHALL INCLUDE VERTICAL ALIGNMENT INFORMATION AT 152.4M (500') INTERVALS. SAID ALIGNMENT SHALL BE TIED TO PERMANENT IMPROVEMENTS, SUCH AS ROADWAY AND/OR RAILROAD CENTERLINES AND RIGHTS-OF-WAY, BUILDING AND PROPERTY CORNERS, AND SHALL BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. THE PROFESSIONAL LAND SURVEYOR CAN COORDINATE WITH THE CONTRACTOR TO INSTALL THE NECESSARY APPURTENANCES ON BURIED UTILITIES TO FACILITATE THE SURVEY AFTER CONSTRUCTION IS COMPLETED. IN ADDITION, PROPERTY STRIP NUMBERS AND STREET NAMES SHALL BE SHOWN ON THE PLAN.
ON A CASE BY CASE BASIS, LEE COUNTY UTILITIES MAY WAIVE THE REQUIREMENT FOR CERTIFICATION BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. HOWEVER, PRIOR CONSENT MUST FIRST BE OBTAINED FROM LEE COUNTY UTILITIES. THE COUNTY SHALL WITHHOLD FINAL ACCEPTANCE OF THE PROJECT UNTIL THE REQUIREMENT FOR RECORD DRAWINGS AND RELATED RECORDS HAS BEEN MET. RECORD DRAWINGS WITHOUT DETAILED FIELD VERIFIED HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES SHOWN WILL BE REJECTED.
D. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. LEE COUNTY UTILITIES SHALL BE NOTIFIED 48 HOURS PRIOR TO PROJECT MOBILIZATION.
E. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
F. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
G. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO SATISFY THE SPECIFICATIONS AND TO COMPLETE WORK.
H. LCU INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.
I. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
J. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE, TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.
K. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND LCU.
L. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.
M. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
N. IN THE EVENT THAT HARD LIMESTONE FORMATION IS ENCOUNTERED, MAKING IT IMPOSSIBLE TO EXCAVATE TO THE DEPTH REQUIRED UNDER THIS CONTRACT, THE CONTRACTOR MAY BE ALLOWED TO REDUCE THE PIPE COVER TO NOT LESS THAN TWO (2) FEET WHILE MAINTAINING THE LCU REQUIRED THICKNESS OF BEDDING UNDER THE PIPE. SUCH DEVIATION FROM THE PLANS MUST BE FIRST BE APPROVED BY LCU AND THE ENGINEER PRIOR TO THE PIPE LAYING. IF TWO FEET OF COVER OR MORE CAN NOT BE ATTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHOD OF CONSTRUCTION OR PIPE PROTECTION WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY.
O. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DID NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.
P. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
Q. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
R. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND FDOT AND LCDOT PRIOR TO CONSTRUCTION.
S. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
T. WITHIN THE FOOT AND LODOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOO.
U. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
V. ALL FRAMES, COVERS VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PERFORMED VALVE PADS ALLOWED.

ENGINEERING/RIGHT-OF-WAY NOTES CONT:

- ALL PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PRESERVED. IF A PROPERTY CORNER OR MONUMENT IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE PROPERTY CORNERS OR MONUMENTS SHALL BE RESTORED WITH LIKE AND KIND OF MATERIALS PRIOR TO ENGINEERING FINAL.
ALL MAIL BOXES IN OR ADJACENT TO THE RIGHT-OF-WAY THAT MUST BE RELOCATED SHALL BE COORDINATED WITH THE COUNTY TRAFFIC DEPARTMENT AND THE LOCAL POST OFFICE FOR FINAL PLACEMENT. MAILBOXES MUST BE MADE AVAILABLE TO THE OWNER AND POSTAL DELIVERY SERVICE DURING CONSTRUCTION. TEMPORARY RELOCATION SHALL BE COORDINATED WITH THE LOCAL POST OFFICE.
A PRE CONSTRUCTION MEETING WITH THE LEE COUNTY INSPECTORS, THE CONTRACTOR AND ANY SUBCONTRACTORS IS REQUIRED PRIOR TO COMMENCING WORK IN THE LEE COUNTY'S RIGHT-OF-WAYS.
A COMPLETE SITE SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN MEETING REQUIREMENTS OF M.U.T.C.D. IS REQUIRED FOR REVIEW PRIOR TO PERFORMING ANY WORK IN THE LEE COUNTY RIGHTS-OF-WAY. SEE F.D.O.T. INDEX 600 SERIES FOR APPROPRIATE TRAFFIC CONTROL COMPLIANCE OF THE AFOREMENTIONED STANDARDS. THE RIGHT OF WAY USAGE PERMIT IS NEEDED PRIOR TO THE START OF ANY CONSTRUCTION AND WILL BE ISSUED UPON ANY APPROVED MAINTENANCE OF TRAFFIC PLAN. FOR MORE INFORMATION THE CONTRACTOR SHOULD REFERENCE THE CURRENT VERSION OF SECTION 600 AND SECTION 700 OF FDOTS STANDARDS SPECIFICATIONS. TRAFFIC CONTROL PLAN WILL REQUIRE FIELD INSPECTION OF THE CONTROLS IN PLACE PRIOR TO COMMENCING WORK IN THE LEE COUNTY RIGHTS-OF-WAY AND THROUGHOUT THE PROJECT. CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS COULD RESULT IN THE LEE COUNTY IMPOSING A STOP WORK ORDER ON THE PROJECT.
CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TESTING OF RIGHT-OF-WAY IMPROVEMENTS AT THE APPROPRIATE TIME DURING DEVELOPMENT TO ENSURE COMPLIANCE WITH MINIMUM DESIGN STANDARDS. CERTIFIED TEST REPORTS ARE REQUIRED FOR COMPACTION AND IN PLACE PAVEMENT THICKNESS OF NEW ROAD AND/OR ALLEY CONSTRUCTION PRIOR TO AN ENGINEERING RIGHT-OF-WAY FINAL. THE LEE COUNTY MAY REQUIRE CORE SAMPLES TO VERIFY COMPLIANCE WITH COMPACTION AND THICKNESS REQUIREMENTS.
CONCRETE FORMS ARE REQUIRED ON BOTH SIDES OF ALL REPLACEMENT CURBS AS OUTLINED ON SHEET F-3 OF THE CITY ENGINEERING DESIGN STANDARDS. INSPECTIONS SHALL BE REQUESTED AND APPROVED PRIOR TO PLACEMENT OF CONCRETE AND/OR ASPHALT IN THE LEE COUNTY'S RIGHT-OF-WAY.
ROUND STORM DRAINS ADJACENT TO INLETS ARE SUMP WELLS THAT CONNECT TO UNDER GROUND RETENTION SYSTEMS THAT PARALLEL THE RIGHT-OF-WAY AND SHALL BE ATTACHED TO INLETS AS PER DETAILS SHOWN.
THE COUNTY ENGINEERING DEPARTMENT WOULD ADVISE THAT THE CONTRACTOR NOTIFY LEE COUNTY D.O.T. TRAFFIC SIGNAL MAINTENANCE DIVISIONS PRIOR TO STARTING CONSTRUCTION AND HAVE THEM CHECK ALL TRAFFIC CONTROL LEADS AND WIRING LOOPS TO ENSURE THAT THEY ARE OPERATIONAL. LEE COUNTY TRAFFIC CONTROL MAINTENANCE DEPT. WILL PROVIDE ASSISTANCE ON MOVING OF ALL TRAFFIC SIGNAL BOXES.
THE CONTRACTOR SHALL RESTORE ALL CITY RIGHTS-OF-WAYS DISTURBED OR DAMAGED PRIOR TO A SITE DEVELOPMENT REVIEW FINAL.
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
VERTICAL SAW CUTS THROUGH EXISTING LIMEROCK ARE REQUIRED WHERE NEW PAVEMENT MATCHES TO EXISTING PAVEMENT.
CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS FOR SUB-BASE AND LIMEROCK AREAS TO ENGINEER PRIOR TO PAYMENT AND/OR FINAL ACCEPTANCE (3 EACH).
CONTRACTOR SHALL PERFORM REQUIRED TESTING FOR WORK IN COUNTY RIGHT-OF-WAY TO ENSURE COMPLIANCE WITH THE MINIMUM DESIGN.
ALL PAVEMENT STRIPES AND MARKINGS WITHIN THE COUNTY RIGHTS-OF-WAY SHALL BE THERMOPLASTIC PER FDOT STANDARD SPECIFICATIONS SECTION 711.
MAINTENANCE OF TRAFFIC FOR LANE WIDENING SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD INDEX 600 & 604, AND THE LEE COUNTY ENGINEERING DESIGN STANDARD G-4.
ALLEY RIGHT-OF-WAY SHALL BE BARRICADED AT THE START OF CONSTRUCTION, ON BOTH SIDE. PROPERTY LINES WITH A MINIMUM OF TYPE III D.O.T. BARRICADES AND WITH SIGNS STATING "DO NOT ENTER OR ROAD CLOSED" ON BOTH BARRICADES. BARRICADES SHALL REMAIN IN PLACE UNTIL THE SITE DEVELOPMENT REVIEW FINAL INSPECTION.
ANY DIFFERENCES IN GRADE BETWEEN THE ALLEY PAVEMENT EDGE AND PRIVATE PROPERTY SHALL BE GRADED AT A 4:1 SLOPE.
CONTRACTOR SHALL NOTE THAT A FINAL ENGINEERING INSPECTION IS REQUIRED AFTER ALL WORK IN THE RIGHT-OF-WAY IS COMPLETE. THE FINAL INSPECTION WILL REQUIRE THAT ALL RIGHT-OF-WAY TEST REPORTS TO BE SUBMITTED AND APPROVED PRIOR TO THE REQUEST FOR A FINAL INSPECTION. DELAY IN RECEIVING AN APPROVED RIGHT-OF-WAY FINAL COULD RESULT IN DELAYS IN RECEIVING THE CERTIFICATE OF OCCUPANCY FOR THE COMPLETED PROJECT.
LEE COUNTY INSPECTIONS ARE REQUIRED PRIOR TO PLACEMENT OF CONCRETE AND/OR ASPHALT IN LEE COUNTY RIGHTS-OF-WAY. ALL CONCRETE PLACED IN THE LEE COUNTY RIGHTS-OF-WAY SHALL BE MINIMUM OF 3,000 PSI.
ALL WORK WITHIN THE LEE COUNTY RIGHTS-OF-WAY SHOULD BE CLOSELY COORDINATED WITH THE APPROPRIATE LEE COUNTY DEPARTMENT AT ALL PHASES OF THE WORK. INITIAL COORDINATION SHOULD BE FOLLOWED UP BY ANY REQUIRED INSPECTIONS.
CONTRACTOR SHALL PROTECT ALL COUNTY REGULATORY SIGNS DURING CONSTRUCTION AND REPLACE THOSE IN THE COUNTY RIGHT-OF-WAY WHEN CONSTRUCTION IS COMPLETED PRIOR TO ENGINEER FINAL.

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL INSURE THAT ALL WATER AND SEWER LINES MAINTAIN 10' (TEN FEET) HORIZONTAL SEPARATION AND/OR 18" (EIGHTEEN INCHES) VERTICAL CLEARANCE BETWEEN EACH OTHER OR HAVE ONE LINE CONCRETE ENCASED 10' (TEN FEET) EACH WAY FROM CONFLICT.
2. THE CONTRACTOR SHALL INSURE THAT ALL REUSE IRRIGATION LINES MAINTAIN 5' (FIVE FEET) MINIMUM HORIZONTAL SEPARATION AND/OR 18" (EIGHTEEN INCHES) VERTICAL CLEARANCE FROM ALL WATER AND SEWER LINES OR HAVE THE IRRIGATION LINE ENCASED IN CONCRETE 10' (TEN FEET) EACH WAY FROM THE CONFLICT.
3. THE CONTRACTOR TO MAINTAIN 6" (SIX INCHES) MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND STORM WATER PIPES, AND BETWEEN SANITARY SEWERS AND STORM WATER PIPES.
4. THE CONTRACTOR TO MAINTAIN 30" (THIRTY INCHES) COVER FOR ALL UTILITY MAINS.
5. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE ENGINEER IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
6. THE ENGINEER'S INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF AS-BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE COPY TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION.

ENGINEERING/RIGHT-OF-WAY NOTES:

- CONTRACTOR IS REQUIRED TO FOLLOW ALL STATE AND LOCAL BUILDING AND DEVELOPMENT CODES AND STANDARDS. ALL WORK WITHIN THE LEE COUNTY RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH LEE COUNTY ENGINEERING DESIGN STANDARDS AND FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION. FEDERAL A.D.A. REQUIREMENTS WILL SUPERSEDE ALL CONFLICTS WITH STATE AND LOCAL STANDARDS. ALL DEVIATIONS FROM THE LEE COUNTY ENGINEERING DESIGN STANDARDS SHALL BE SPECIFICALLY ADDRESSED IN WRITING FOR REVIEW AND APPROVAL BY THE LEE COUNTY ENGINEER PRIOR TO RIGHT-OF-WAY FINAL. ALL OTHER ERRORS, OMISSIONS OR CONFLICTS WITH THE SITE PLAN OR SPECIFICATIONS SHALL BE RESOLVED IN FAVOR OF THE LEE COUNTY DESIGN STANDARDS.
ALL WORK OR MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATION OF THE LEE COUNTY ENGINEERING DESIGN STANDARDS OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR ANY WORK PERFORMED WITHOUT AN INSPECTION BY A REPRESENTATIVE OF THE LEE COUNTY PUBLIC WORKS DEPARTMENT IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL THE NECESSARY RIGHT-OF-WAY PERMITS AND PROVIDE ALL NECESSARY WORK ZONE CONTROLS AND SAFETY REQUIREMENTS FOR THE PROJECT. TRAFFIC CONTROLS ARE REQUIRED FOR ALL WORK WITHIN THE RIGHT-OF-WAY. THE LEE COUNTY HAS ADOPTED THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND REQUIRES A MAINTENANCE OF TRAFFIC PERMIT TO ENSURE COMPLIANCE WITH THESE STANDARDS. A TRAFFIC MAINTENANCE PLAN IS REQUIRED FROM THE CONTRACTOR AND MUST BE APPROVED BY THE CITY TRANSPORTATION DEPARTMENT PRIOR TO STARTING WORK IN THE RIGHT-OF-WAY. FOR MORE INFORMATION THE CONTRACTOR SHOULD REFERENCE CITY ENGINEERING DESIGN STANDARDS SHEET G-4 AND THE CURRENT VERSION OF SECTION 600 AND SECTION 700 OF F.D.O.T. STANDARD SPECIFICATIONS. CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS COULD RESULT IN THE CITY IMPOSING A STOP WORK ORDER ON THE PROJECT.
CONTRACTOR TO NOTE THAT DESIGN ELEVATIONS FOR THE RIGHT-OF-WAY SHOWN ON THE PLANS MAY DIFFER FROM THE COUNTY'S MASTER DESIGN PLAN. THE COUNTY'S SURVEY DEPARTMENT WILL SET THE GRADES FOR CURB AS PER THE COUNTY'S CURB AND ROAD WIDENING MASTER PLAN. THE CONTRACTOR SHOULD CHECK WITH THE COUNTY'S ENGINEERING DEPARTMENT TO OBTAIN RIGHT-OF-WAY DESIGN INFORMATION AND LATEST CHANGES IF ANY.
THE CONTRACTOR SHALL ENSURE THAT WITH ALL ROAD IMPROVEMENTS, THE EXISTING ASPHALT ROAD EDGE IS CUT BACK A MIN. OF 1 FT FOR THE ENTIRE LENGTH OF THE ASPHALT ROAD TO BE CONSIDERED. IN-PLACE THICKNESS OF ROAD THERMOPLASTIC STRIPING REMAINING ALONG THE CUT EDGE WILL BE GROUND OFF. THE SUB-BASE AND CUT EDGE ARE TO BE TACK COATED PRIOR TO THE INSTALLATION OF THE NEW ASPHALT, AND THAT ALL NEW STRIPING SHALL BE THERMOPLASTIC AND PLACED ALONG THE CURB PER M.U.T.C.D. SPECIFICATIONS.
ALL BROKEN AND VERTICALLY MISALIGNED SECTIONS OF EXISTING SIDEWALKS AND CURB IN THE CITY RIGHT-OF-WAY DIRECTLY ADJACENT TO THIS SITE THAT DO NOT MEET A.D.A. MINIMUM REQUIREMENTS ARE REQUIRED TO BE REPLACED.
SIDEWALKS PASSING THROUGH DRIVEWAY APRONS SHALL COMPLY WITH LATEST VERSION OF THE FEDERAL A.D.A. SEE ALSO F.D.O.T. INDEX 515 PAGES 1-6 FOR MORE DETAILS.
CONTRACTOR SHALL INSTALL EXPANSION JOINTS AT INTERVALS OF 100 FT. ON CENTER FOR ALL CURB CUTTER AND SIDEWALKS INSTALLED IN THE RIGHT-OF-WAY PROJECT. CONTRACTION JOINTS ARE TO BE SAW CUT AT 8' ON CENTER FOR SIDEWALKS AND 10' ON CENTER FOR CURB. EXPANSION MATERIAL IS NOT TO BE PLACED BETWEEN THE BACK OF THE CURB AND THE SIDEWALK OR DRIVEWAY APRON. FOR ADDITIONAL DETAILS REFER TO F.D.O.T. INDEXES 300 AND 310.
LEE COUNTY REQUIREMENTS FOR MATERIALS TEST REPORTS SHOULD BE DETERMINED AT THE BEGINNING OF THE PROJECT AND SHOULD BE AVAILABLE TO THE INSPECTOR AT THE TIME OF REQUIRED INSPECTION. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TESTING OF RIGHT-OF-WAY IMPROVEMENTS AT THE APPROPRIATE TIME DURING DEVELOPMENT TO ENSURE COMPLIANCE WITH MINIMUM LEE COUNTY DESIGN STANDARDS. CERTIFIED TEST REPORTS ARE REQUIRED FOR COMPACTION AND SUB-BASE AND ASPHALT THICKNESS OF ROAD BASE AND ASPHALT FOR NEW ROAD AND/OR ALLEY CONSTRUCTION IS ALSO REQUIRED PRIOR TO AN ENGINEERING RIGHT-OF-WAY FINAL. DELAY IN RECEIVING AN APPROVED RIGHT-OF-WAY FINAL COULD RESULT IN DELAYS IN RECEIVING THE CERTIFICATE OF OCCUPANCY FOR THE COMPLETED PROJECT. TESTING IMPROVEMENTS IN THE RIGHT-OF-WAY IS REQUIRED TO ENSURE COMPLIANCE WITH THE MINIMUMS OF THE DESIGN CROSS SECTIONS.
CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL LEE COUNTY RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION UP AND TO THE POINT THAT FINAL APPROVAL IS RECEIVED FROM LEE COUNTY. RIGHT-OF-WAY, SWALE AND OTHER DIFFERENCES IN GRADE INCLUDING PRIVATE PROPERTY SHOULD BE GRADED AT A 4:1 SLOPE. THESE AREAS SHALL BE COVERED WITH HYDRO SEED OR SOO. SIGN ONLY IS TO BE PLACED ALONG THE EDGE OF NEW OR EXISTING PAVEMENT AND 10-FEET IN ALL DIRECTIONS AROUND STORM WATER INLETS. THIS INCLUDES PROPERTIES LOCATED ACROSS ALLEYS IMPROVED AS PART OF THE PROJECT.
THE CONTRACTOR WILL BE REQUIRED TO CONTACT THE SITE DEVELOPMENT AND REVIEW DIVISION TO COORDINATE THE INSTALLATION AND INSPECTIONS FOR RESTORATION OF THE LEE COUNTY STORM WATER SYSTEM. AFTER ALL OF THE NEW PIPES AND STRUCTURE HAVE BEEN INSTALLED AND APPROVED BY LEE COUNTY, THE OLD PIPES AND ANY STRUCTURES ON THE PROPERTY MUST BE REMOVED. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A SURVEYOR TO DO THE LAYOUT FOR INSTALLATION OF THE NEW SYSTEM.
THE CONTRACTOR SHALL PROVIDE EROSION CONTROLS FOR THE STORM WATER SYSTEM OF THE LEE COUNTY RIGHT-OF-WAY AT THE START OF CONSTRUCTION. CONTROLS MUST BE MAINTAINED UNTIL THE RIGHT-OF-WAY CONSTRUCTION IS COMPLETE AND RESPONSIBILITY FOR THE WORK IS ACCEPTED BY THE LEE COUNTY. SHOULD THE CONTRACTOR'S STORM WATER PROTECTIVE SYSTEM NOT BE INSTALLED OR FAIL THE CONTRACTOR SHALL UPON COMPLETION CLEAR AND CLEAN THE ENTIRE STORM SYSTEM TO THE CANAL. EROSION CONTROL METHODS ARE DETAILED ON SHEETS M-1 TO M-27 OF THE LEE COUNTY ENGINEERING DESIGN STANDARDS. (SEE ALSO FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTION MANUAL FOR ADDITIONAL INFO.)
ALL SIGNS IN OR ADJACENT TO THE RIGHT-OF-WAY THAT MUST BE RELOCATED SHALL BE COORDINATED WITH THE LEE COUNTY TRAFFIC DEPARTMENT. STOP SIGNS MUST BE MAINTAINED DURING CONSTRUCTION BY RELOCATING THE EXISTING SIGN IF POSSIBLE. USE A TEMPORARY SIGN OR A COMBINATION OF BOTH. PLEASE GET IN TOUCH WITH THE TRAFFIC DEPARTMENT FOR RELOCATION OF SIGNS. APPROVAL OF NEW SIGNS AND REQUIRED STRIPING OF ADJACENT RIGHT-OF-WAY. ALL RIGHT-OF-WAY STRIPING AND SIGNS MUST COMPLY WITH THE LATEST VERSION OF THE M.U.T.C.D. ALL PRIVATE TRAFFIC SIGNS AND STOP BARS ARE TO BE LOCATED ON PRIVATE PROPERTY BEHIND THE CITY RIGHT-OF-WAY LINE. TEMPORARY TRAFFIC SIGNS MAY BE PLACED WITHIN THE RIGHT-OF-WAY TO IDENTIFY STREET LOCATIONS. COORDINATION WITH THE LEE COUNTY TRAFFIC DEPARTMENT IS REQUIRED.
THE SITE CONTRACTOR WILL BE RESPONSIBLE TO ENSURE THAT ALL ABOVE GROUND PUBLIC UTILITY STRUCTURES IN THE RIGHT-OF-WAY WILL BE RELOCATED TO THE UTILITY EASEMENT BEHIND THE RIGHT-OF-WAY LINE. THIS WOULD INCLUDE ALL TYPES SUCH AS POWER POLES, TELEPHONE CONNECTION BOXES, SWITCH GEAR BOXES AND ANY STRUCTURES USED TO SUPPLY OR SUPPORT A PUBLIC SERVICE NOT SUPPLIED BY THE LEE COUNTY UTILITY. FOR ALL OTHER UTILITIES, MAINTAINED BY THE COUNTY CONTACT LEE COUNTY UTILITY DEPARTMENT.
ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
CONSTRUCTION OF THE TYPE-4 CURB INLET SHALL BE PER QTY DETAILS AND SPECIFICATIONS. SEE SHEET C-3 AND SHEET C-9 OF THE CAPE CORAL ENGINEERING DESIGN STANDARDS AND F.D.O.T. INDEX 210 FOR ADDITIONAL INFORMATION. THE LAST STRUCTURE IN THE SYSTEM PRIOR TO A CANAL IS REQUIRED TO HAVE A TWO FOOT BOTTOM SLUMP BELOW THE LOWEST PIPE.
ALL PROPERTY SURVEY MONUMENTS IN THE LEE COUNTY'S RIGHT-OF-WAY ARE TO BE IN PLACE AND MARKED PRIOR TO REQUESTING SERVICES FOR SURVEYING LAY OUT AND/OR INSPECTIONS.

SITE DATA
TOTAL SITE: 10.54 AC 100%
LAKE: 1.15 AC 10.91%
PAVEMENT/CONCRETE: 1.31 AC 12.43%
BUILDINGS: 1.59 AC 15.09%
TOTAL IMPERVIOUS: 4.05 AC 38.43%
TOTAL PERVIOUS: 6.49 AC 61.57%

DRAINAGE BASIN ELEVATION TABLE

ALL ELEVATIONS NAVD 88
FEMA FLOOD ZONE: AREA OF MINIMUM FLOOD HAZARD ZONE "X"
MINIMUM DESIGN
WET SEASON WATER TABLE: 8.50 FT 8.50 FT 10.25 FT MIN. 10.25 FT MIN.
CENTERLINE RD ELEV.: 10.14 FT (5 YR 1 DAY) 11.50 FT MIN.
PERIMETER BERM ELEV.: 11.59 FT (25 YR 3 DAY) 12.25 FT MIN.
FINISH FLOOR ELEV.: 12.14 FT (100 YR 3 DAYS)

RAINFALL AMOUNT

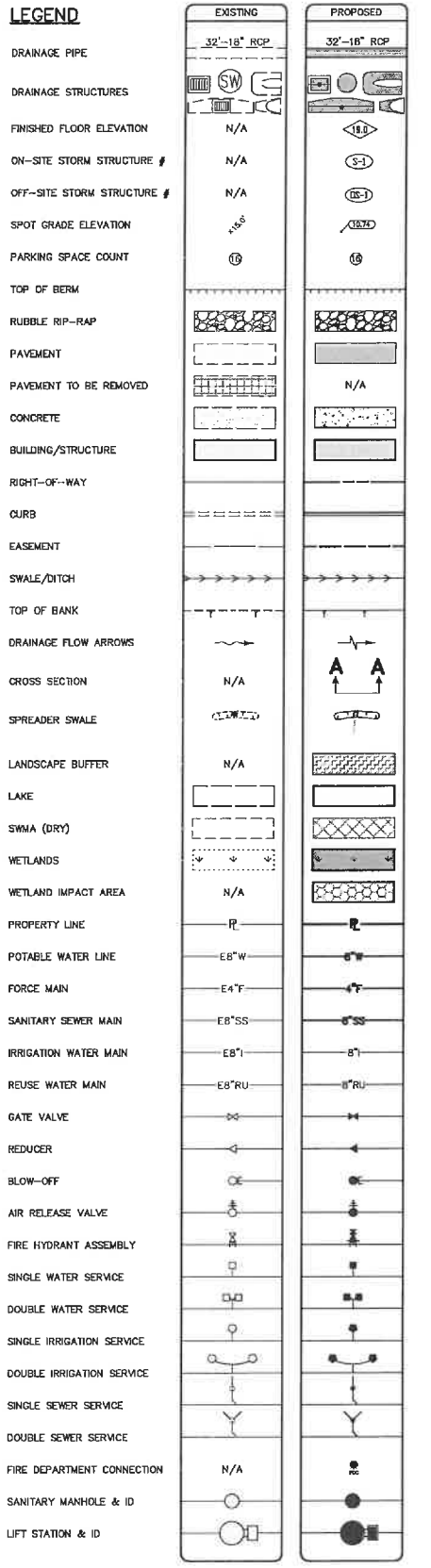
5 YEAR-1 DAY STORM: 5.50 in.
25 YEAR-3 DAY STORM: 11.00 in.
100 YEAR-3 DAY STORM: 14.00 in.

ALLOWABLE DISCHARGE:

1.05 CFS
DESIGN DISCHARGE: 1.03 CFS

GENERAL NOTES:

- 1. ALL EXISTING AND PROPOSED GRADES ARE N.A.V.D. OF 1988.
2. THE SUBJECT PARCEL SHOWN HEREON IS LOCATED IN FLOOD ZONE AE-EL7 (NAVB88) PER FEMA FIRM RATE HAZEL 1207100418F OF 6/28/08.
3. THIS PROJECT PRESENTS NO ADVERSE IMPACTS ON LOCAL GROUNDS OR SURFACE WATERS, AND DOES NOT ADVERSELY AFFECT THE FLOOD ZONE.
4. THIS PROJECT DOES NOT IMPACT ANY KNOWN UNMITIGATED WETLANDS, AND THE SITE DOES NOT EXHIBIT ANY KNOWN SALTWATER PONDING.
5. THIS SITE CAN BE USED FOR THE DEVELOPMENT AS SHOWN WITHOUT UNIQUE DANGER FROM FLOOD, ADVERSE SOIL, AND/OR FOUNDATION CONDITIONS, SUBJECT TO PROPER GEOTECHNICAL INVESTIGATION, SITE DESIGN, AND STRUCTURE DESIGN.
6. NO KNOWN ARCHAEOLOGICAL SITES EXIST WITHIN THE PROJECT AREA.
7. ALL ON-SITE ROADS SHALL BE PRIVATELY OWNED AND MAINTAINED.
8. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 OR LATEST EDITION.
9. ALL WORK SHOWN BY INDEX NUMBER SHALL BE IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARDS, JANUARY 1, 2010 OR LATEST EDITION.
10. ALL REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL MEET ASTM C 76, CLASS III, TYPE "B" WALL FOR ROUND PIPE AND MEET ASTM C 507, TABLE 1 FOR RECTANGULAR PIPE AND OTHERWISE BE INSTALLED AND MANUFACTURED IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS 430 & 841.
11. CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS AND OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
12. ALL PAVEMENT STRIPING TO BE TWO COATS OF HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.
13. ALL TRAFFIC SIGNS TO BE DRIVEN STEEL POST TYPE GROUND SIGNS IN ACCORDANCE WITH F.D.O.T. INDEX DRAWINGS 11860 AND 11863 (80 M.P.H. WIND LOAD) AND F.D.O.T. SPECIFICATIONS SECTION 700-HIGHWAY SIGNING.
14. ALL EMBANKMENT AND FILL TO BE SUITABLE MATERIAL COMPLYING WITH AASHTO CLASSIFICATION GROUPS A-1, A-2, A-3, A-4, A-5, A-6, OR A-7-5 AND OTHERWISE PLACED AND COMPACTED IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS, SECTION 110.
15. STABILIZED SUBGRADE MATERIAL SHALL CONFORM TO F.D.O.T. STANDARD SPECIFICATIONS, SECTION 160 WITH A MINIMUM L.B.R. OF 40. (ALLOWABLE UNDER TOLERANCE PER SECTION 160-7.2 WILL NOT APPLY).
16. SUBGRADE AND LIMEROCK BASE COURSES TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180 TESTING.
17. UNLESS OTHERWISE NOTED, FILL SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE BEDDING DETAILS.
18. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATIONS AND ELEVATIONS OF ANY BURIED UTILITY LINES OR CABLES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY UTILITY LINES OR CABLES DISTURBED BY THE CONSTRUCTION OPERATIONS.
19. THE CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS OF SUBGRADE AND LIMEROCK BASE MATERIALS TO THE ENGINEER PRIOR TO PAYMENT AND/OR FINAL ACCEPTANCE. (ONE TEST PER COURSE PER 600 SQUARE YARDS).
20. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS OR RELOCATION OF EXISTING UTILITIES WITH APPROPRIATE UTILITY OWNERS.
21. THE CONTRACTOR SHALL SECURE ALL PERMITS NEEDED TO WORK IN PUBLIC RIGHTS-OF-WAY.
22. THE CONTRACTOR SHALL COORDINATE ALL WORK IN THE CITY RIGHTS-OF-WAY WITH THE LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT).
23. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS AND INDEXES AND THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART IV.
24. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE ENGINEER IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
25. THE ENGINEER'S INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.
26. THE SOURCE OF IRRIGATION WATER SHALL BE PROVIDED BY AN ON-SITE PRIVATE GROUNDWATER WELL.
27. ALL ON-SITE POTABLE WATER AND SANITARY SEWER SYSTEM INFRASTRUCTURES SHALL BE PRIVATELY OWNED AND MAINTAINED.
28. NO DEWATERING WILL BE CONDUCTED WITHIN THE PROPOSED PROJECT.



GENERAL NOTES
HABITAT MCNEILL, LLC.
LEE COUNTY, FLORIDA

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Serving The State Of Florida
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ENGINEERING LICENSE # EB 6468
SURVEY LICENSE # LR 8580
WWW.BANKSENG.COM

DATE: 7/9/2018
PROJECT: 8268
DRAWING: GEN NOTES
DESIGN: JRK
DRAWN: JLS
CHECKED: SWM
SCALE: N.T.S.
SHEET: 03

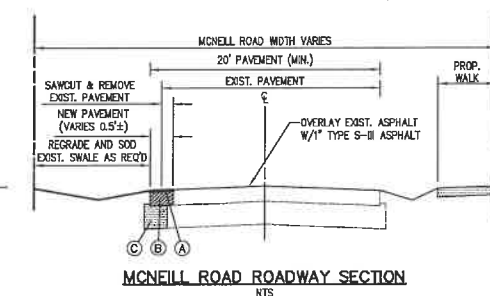
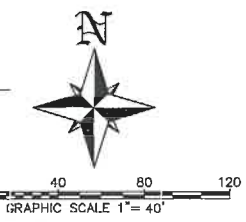
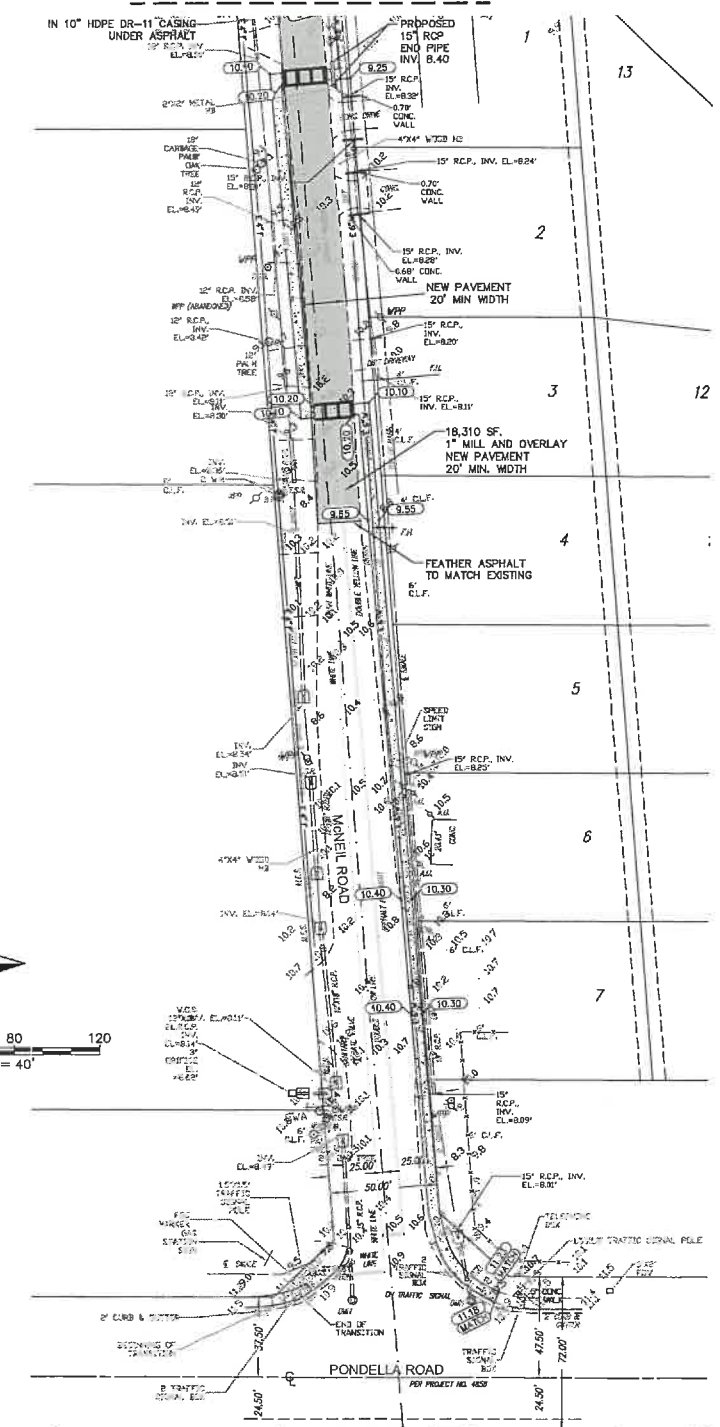
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HABITAT MCNEILL, LLC.
1288 NORTH TAMiami TRAIL
NORTH FORT MYERS FL 33903
NO. DATE REVISION DESCRIPTION BY

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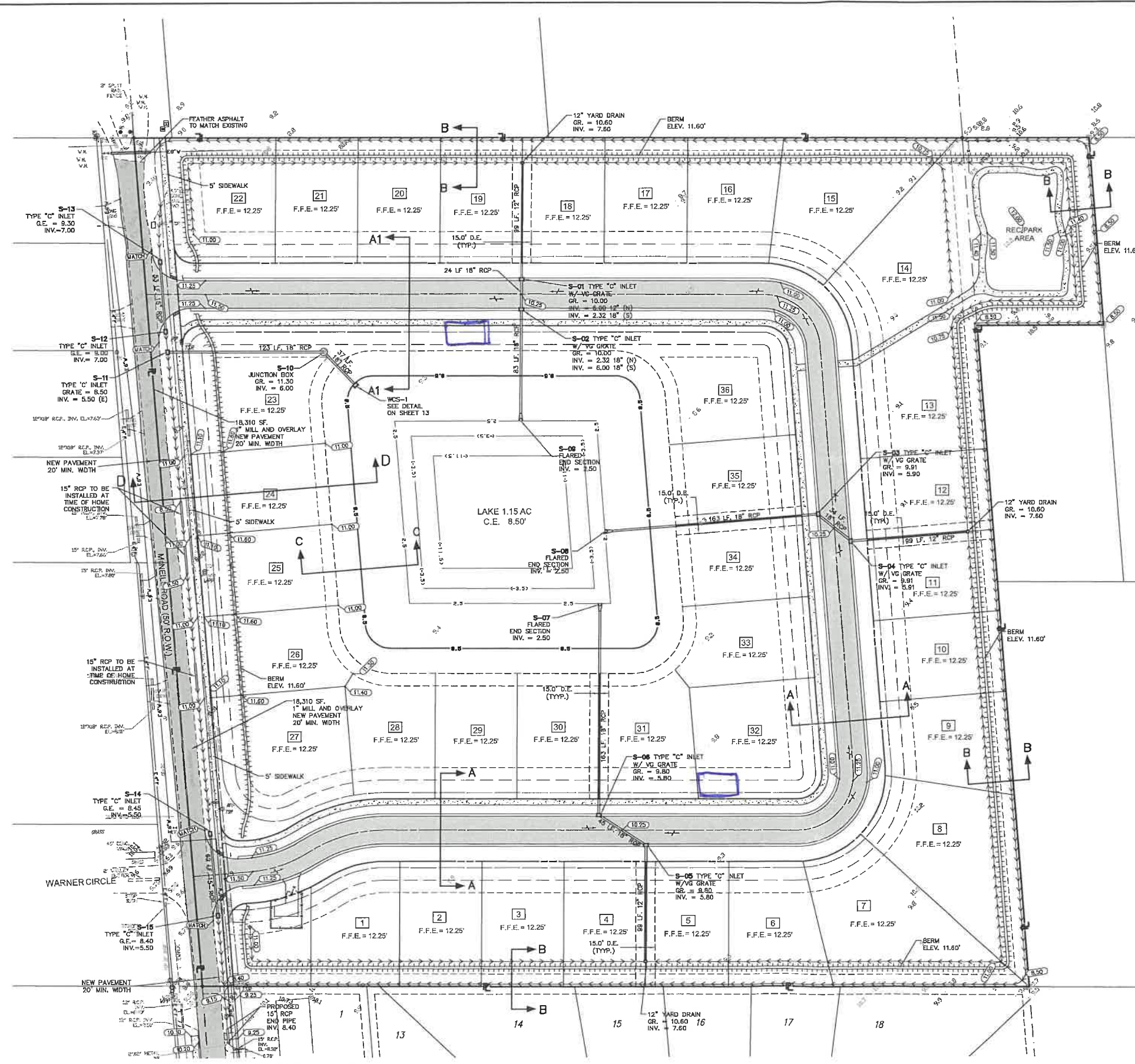
HABITAT MCNEILL, LLC.



MATCH LINE



- ① 1.5"± TYPE S-III ASPHALT
- ② 6" THICK LIMEROCK BASE (LBR 100 MIN. 98% AASHTO T-180)
- ③ 6" THICK TYPE "B" STABILIZATION (LBR 40 MIN. 98% AASHTO T-180)



MATCH LINE

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**HABITAT MCNEILL, LLC.**  
 1288 NORTH TAMiami TRAIL  
 NORTH FORT MYERS FL 33903

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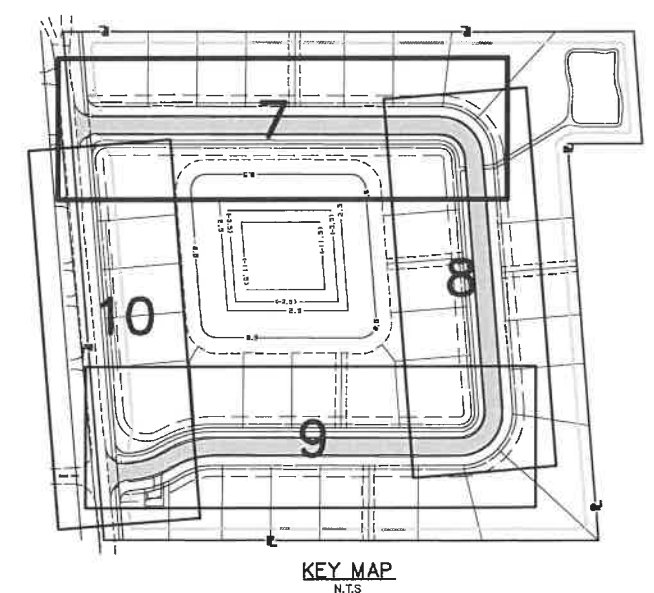
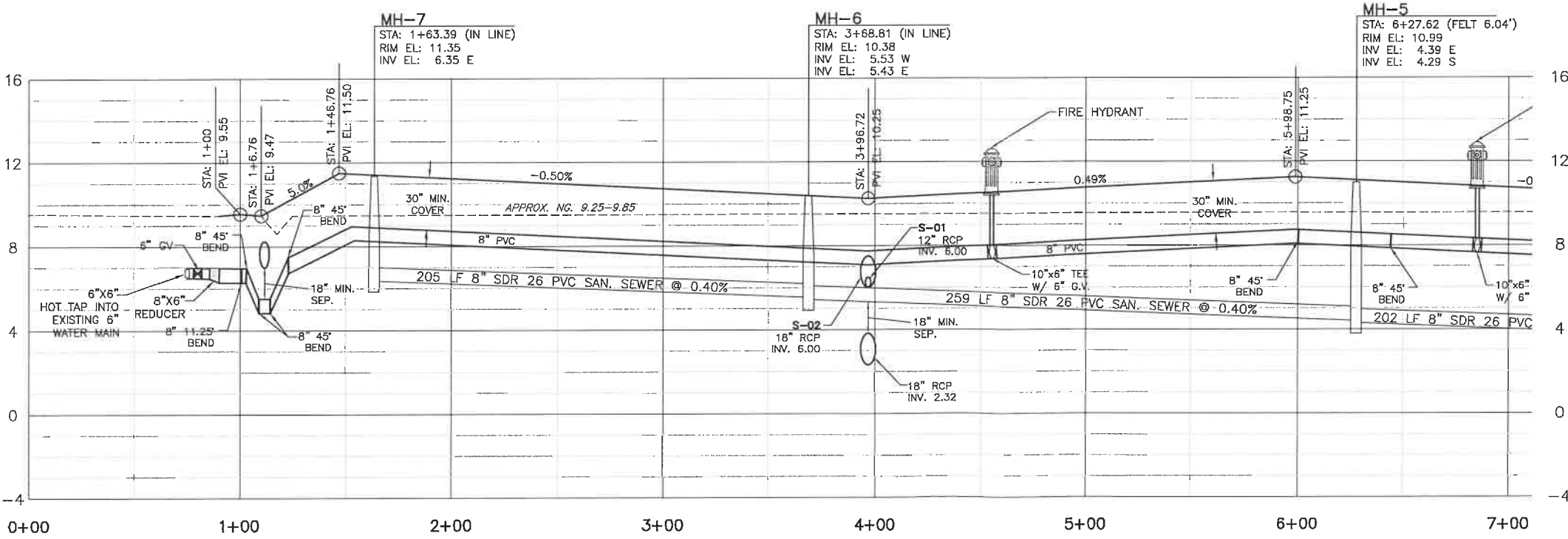
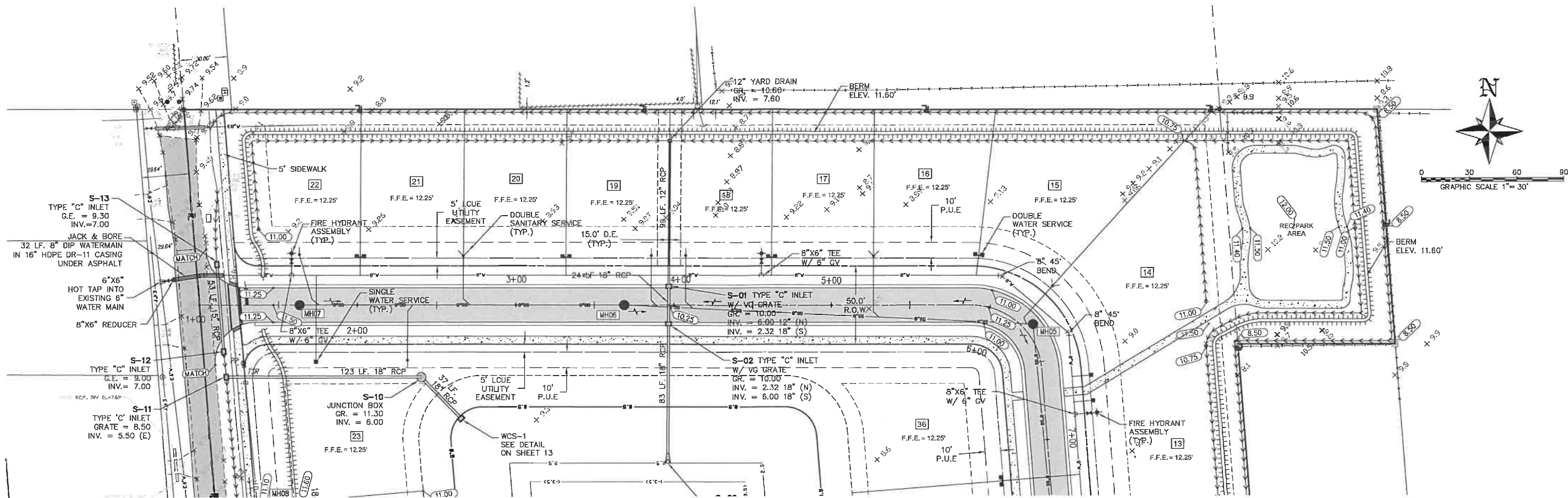
10511 SIX MILE CYPRESS PARKWAY  
 FORT MYERS, FLORIDA 33988  
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DATE		PROJECT		DRAWING		DESIGN		DRAWN		CHECKED		SCALE		SHEET	
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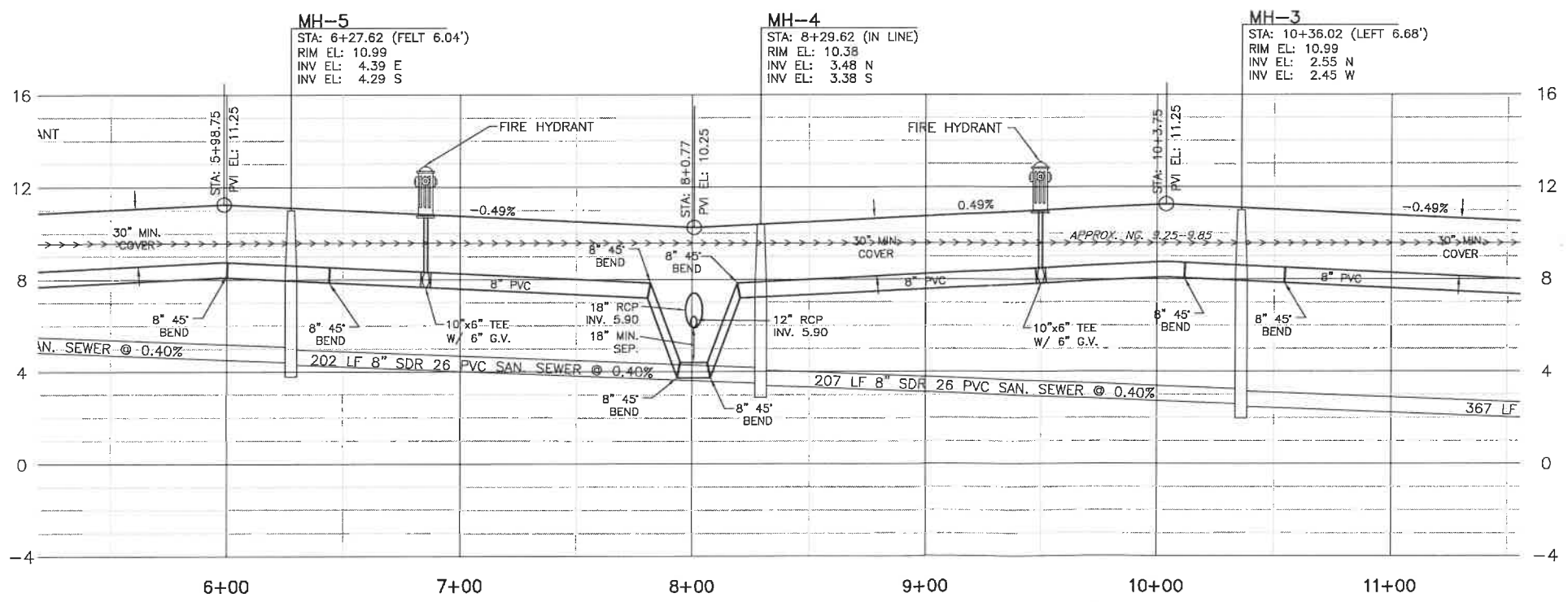
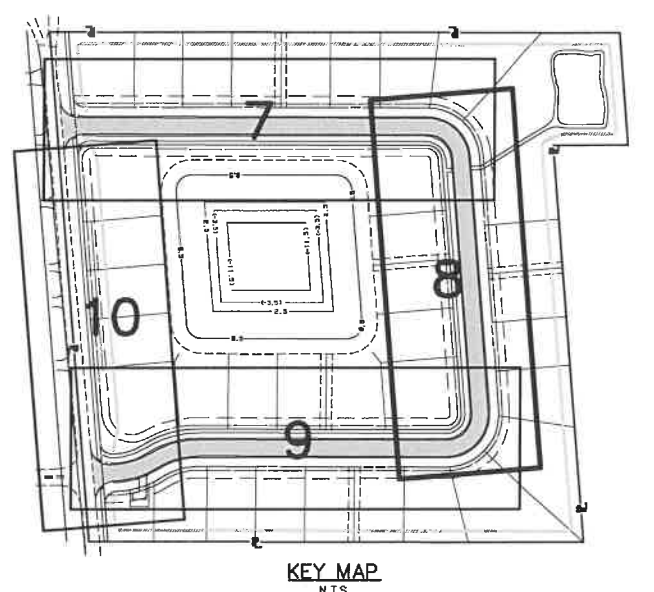
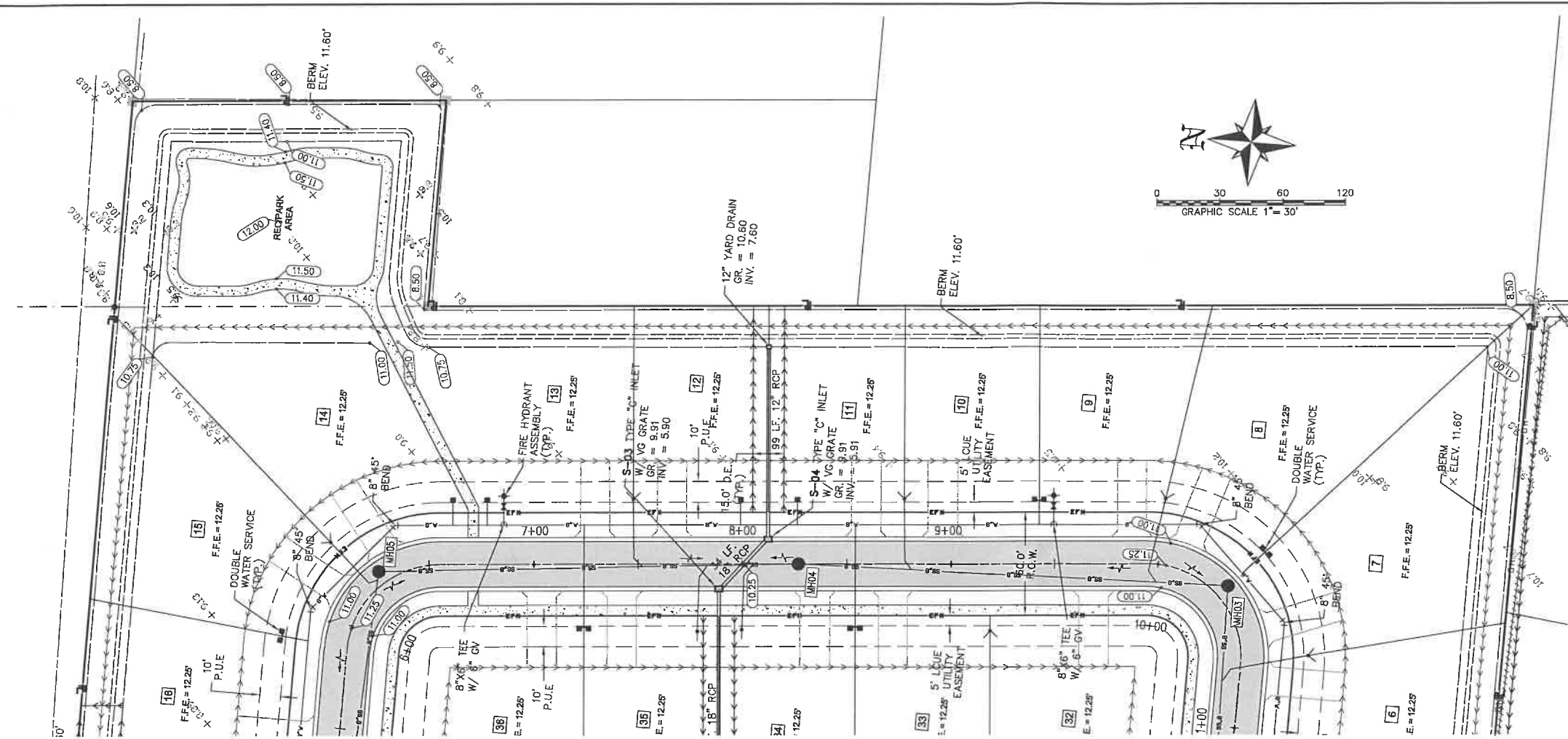
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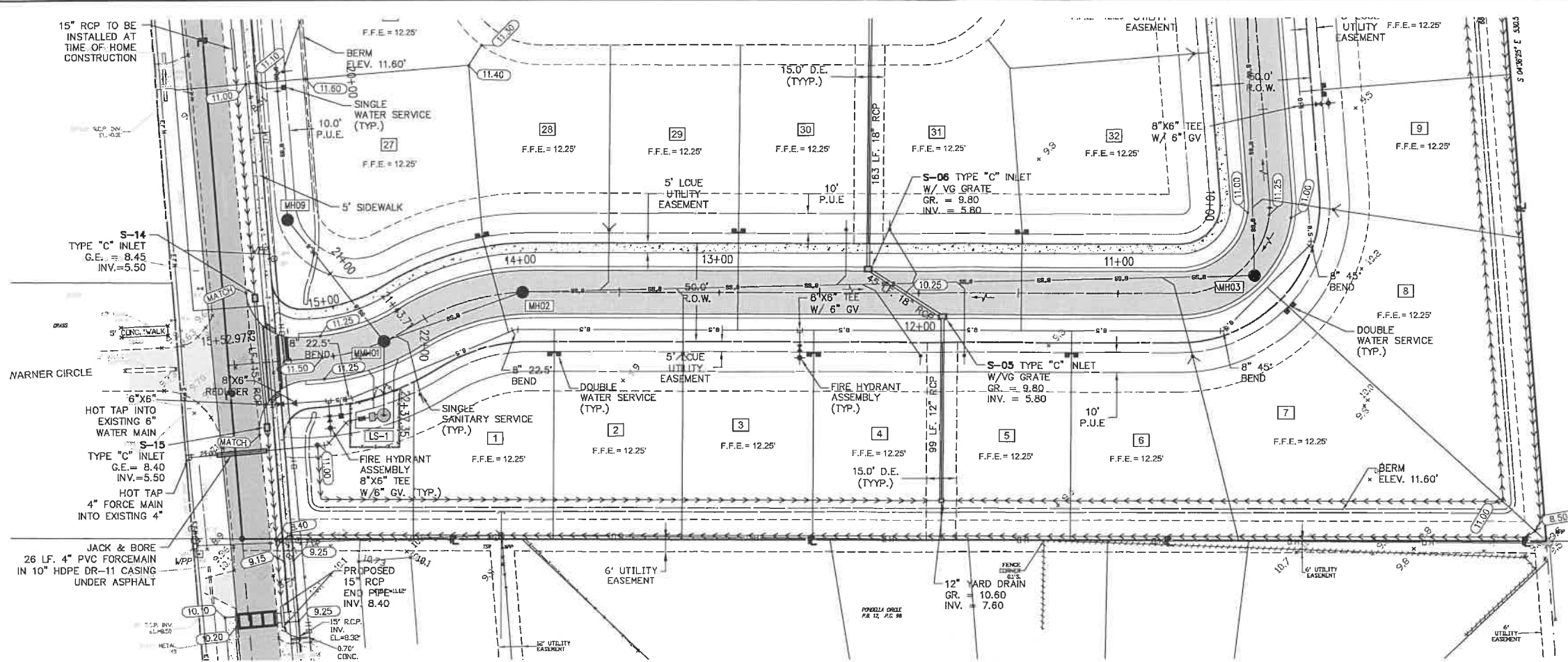
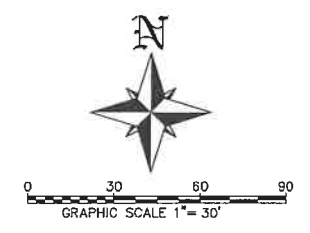
<b>PREPARED FOR:</b> <b>HABITAT MCNEILL, LLC.</b> 1288 NORTH TAMiami TRAIL NORTH FORT MYERS FL. 33903		<b>BANKS ENGINEERING</b> Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida 10511 SIX MILE CYPRESS PARKWAY FORT MYERS, FLORIDA 33966 PHONE: (239) 939-5490 FAX: (239) 939-2523 ENGINEERING LICENSE # EB 6468 SURVEY LICENSE # LD 5690 WWW.BANKSENG.COM		Digitally signed by Samuel W. Marshall DN: cn=Samuel W. Marshall, o=BANKS ENGINEERING, ou=Professional Engineers, Planners, & Land Surveyors, email=samuel.marshall@bankseng.com, c=US Date: 2018.07.09 10:54:00 -0400		<b>PLAN &amp; PROFILE - 1</b> <b>HABITAT MCNEILL, LLC.</b> LEE COUNTY, FLORIDA	
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	B268	P&P-1	JRK	JLS	SWM	(V) 1"=3' (H) 1"=30'	07



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PREPARED FOR: <b>HABITAT MCNEILL, LLC.</b> 1288 NORTH TAMiami TRAIL NORTH FORT MYERS FL 33903		<b>BANKS ENGINEERING</b> Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida		10511 SIX MILE CYPRESS PARKWAY FORT MYERS, FLORIDA 33966 PHONE: (239) 938-8400 FAX: (239) 938-2523 ENGINEERING LICENSE # EB 6489 SURVEY LICENSE # LB 6690 WWW.BANKSENG.COM		PLAN & PROFILE - 2 <b>HABITAT MCNEILL, LLC.</b> LEE COUNTY, FLORIDA	
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	8268	P&P-2	JRK	JLS	SWM	SCALE (V) 1"=3' (H) 1"=30'	08

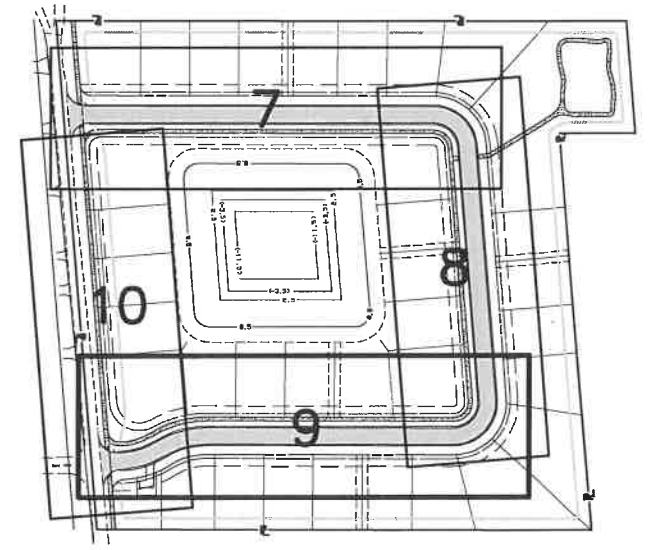
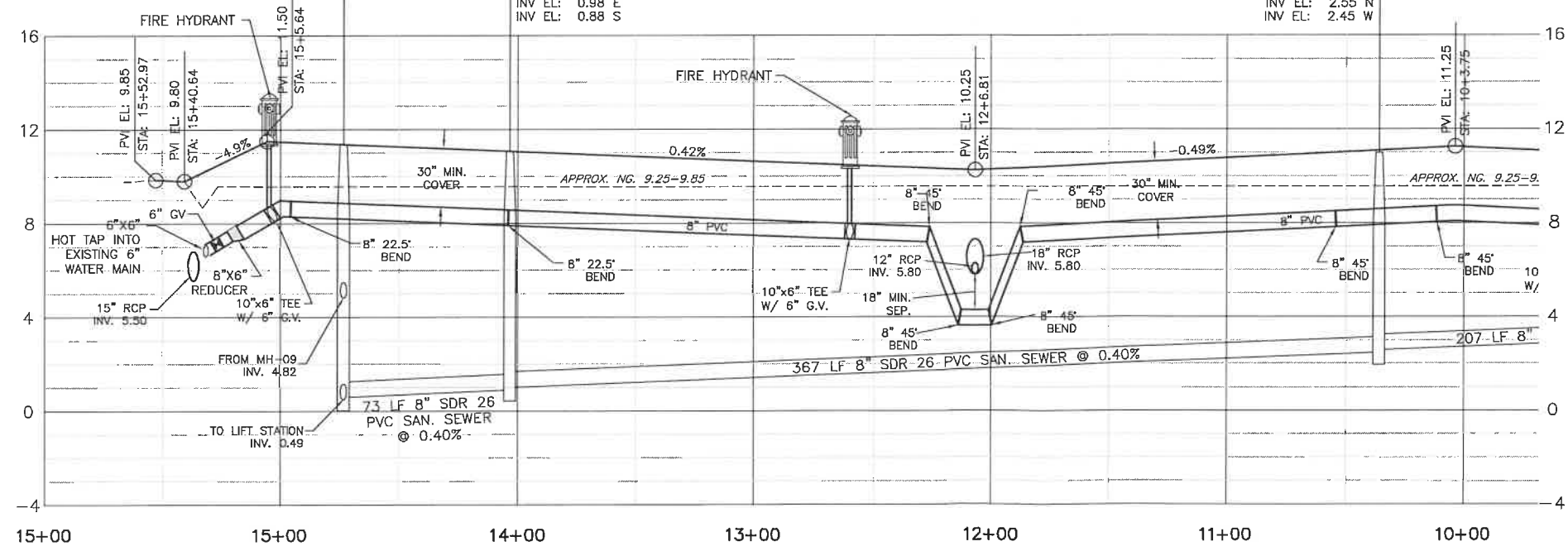




(DROP MH) MMH-1  
 STA: 14+73.46 (IN LINE)  
 RIM EL: 11.36  
 INV EL: 0.59 NE  
 INV EL: 0.49 S

MH-2  
 STA: 13+98.97 (IN LINE)  
 RIM EL: 11.07  
 INV EL: 0.98 E  
 INV EL: 0.88 S

MH-3  
 STA: 10+36.02 (LEFT 6.68')  
 RIM EL: 10.99  
 INV EL: 2.55 N  
 INV EL: 2.45 W



KEY MAP  
 N.T.S.

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 1288 NORTH TAMiami TRAIL  
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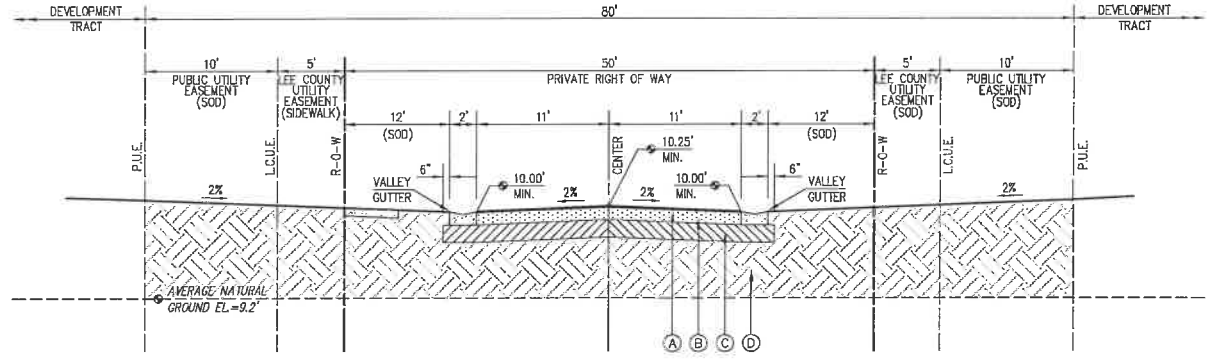
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 SURVEY LICENSE # LP 8890  
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PLAN & PROFILE - 3 HABITAT MCNEILL, LLC. LEE COUNTY, FLORIDA		DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
		7/9/2016	B268	P&P-3	JRK	JLS	SWM	(V) 1"=3' (H) 1"=30'	09

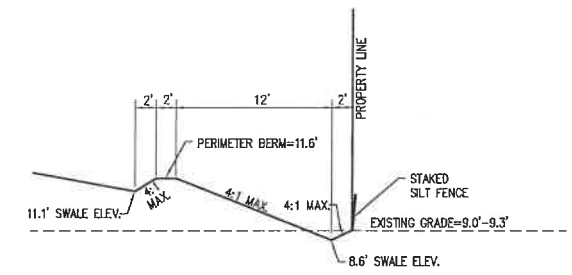




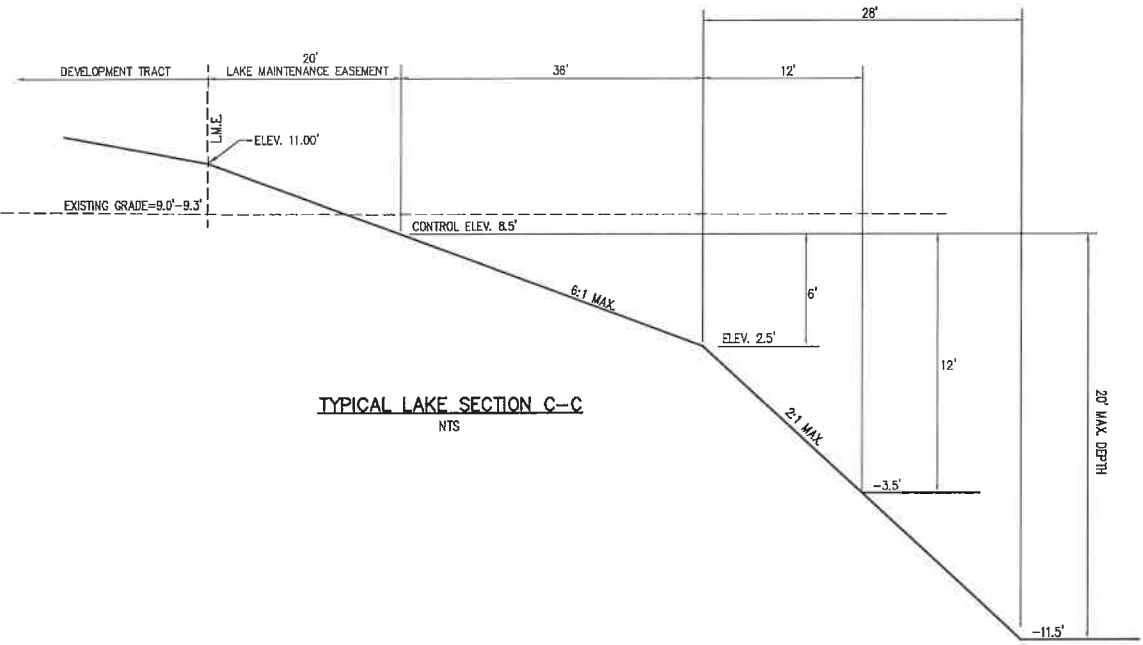
**TYPICAL ROADWAY SECTION SECTION A-A**  
NTS

**NOTE: ALL ELEVATIONS NAVD88**  
**TYPICAL PAVEMENT DESIGN**

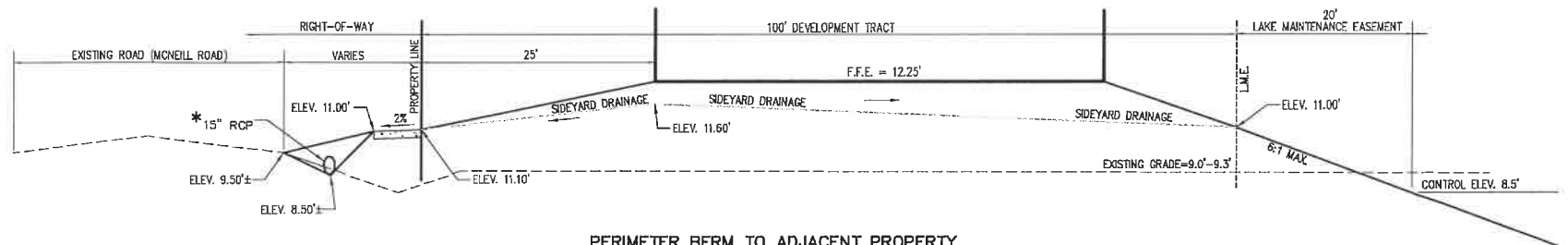
- (A) (2) LIFTS 3/4" TYPE S-III ASPHALT
- (B) 6" THICK (MIN.) COMPACTED LIMEROCK LBR 100
- (C) 12" THICK (MIN.) STABILIZED SUBGRADE, LBR 40
- (D) EMBANKMENT PLACED IN 12" LIFTS TO 98% AASHTO T-180. (MATERIAL PER F.O.D.T. INDEX NO. 505)



**PERIMETER BERM TO ADJACENT PROPERTY SECTION B-B**  
NTS



**TYPICAL LAKE SECTION C-C**  
NTS



**PERIMETER BERM TO ADJACENT PROPERTY SECTION D-D**  
NTS

\* PIPE TO BE INSTALLED AT TIME OF DRIVEWAY CONSTRUCTION IN ACCORDANCE WITH LEE COUNTY D.O.T. REQUIREMENT.

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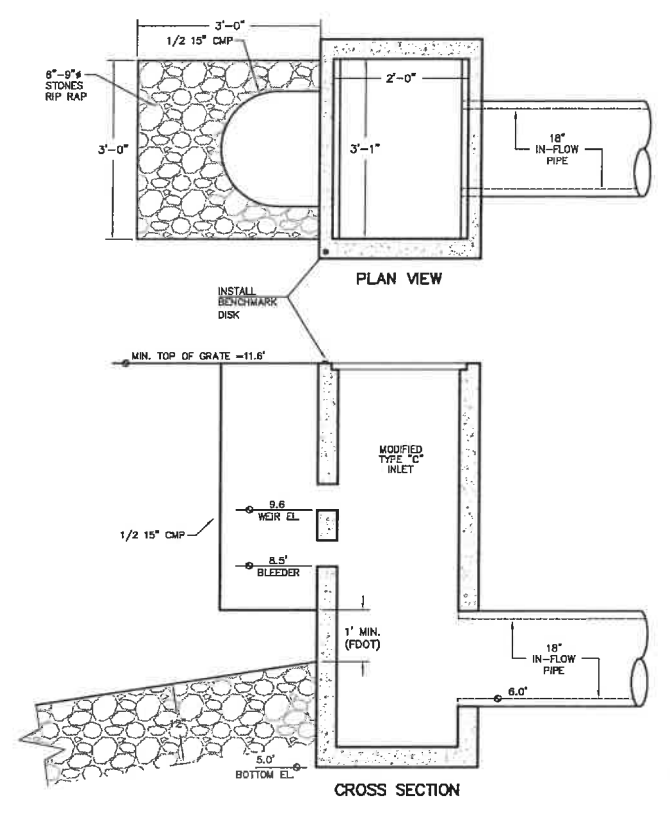
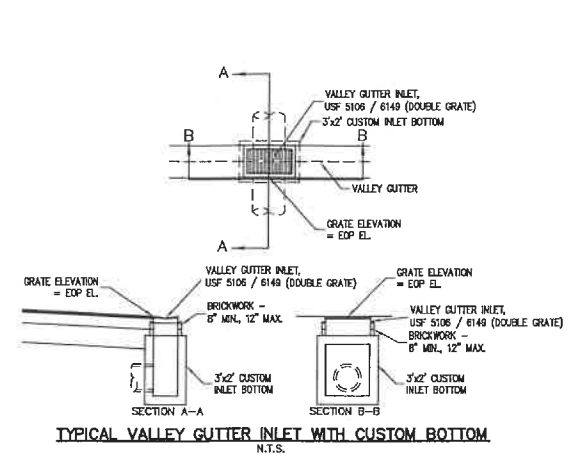
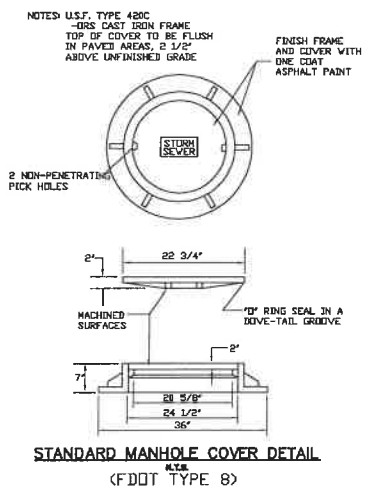
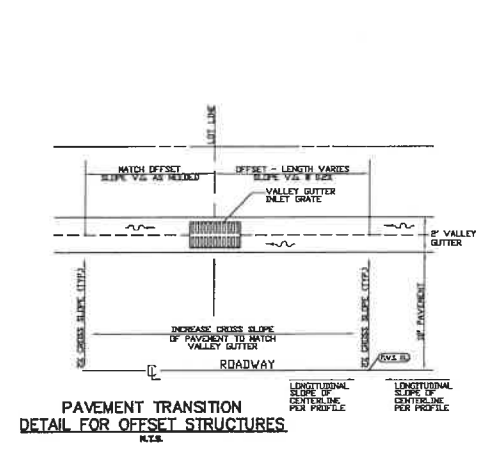
PREPARED FOR:  
**HABITAT MCNEILL, LLC.**  
1288 NORTH TAMiami TRAIL  
NORTH FORT MYERS FL. 33903

NO.	DATE	REVISION DESCRIPTION	BY

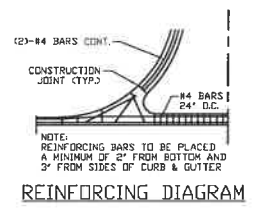
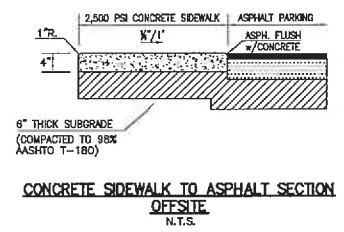
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CROSS SECTIONS									
HABITAT MCNEILL, LLC.									
LEE COUNTY, FLORIDA									
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET		
7/9/2018	8268	X-SECTIONS	JRK	JLS	SWM	N.T.S.	11		

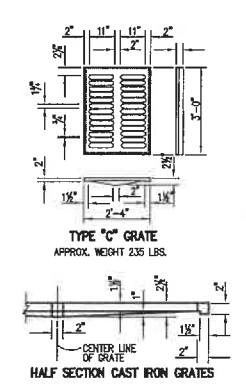
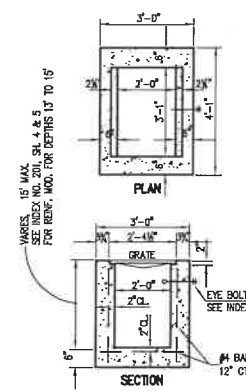
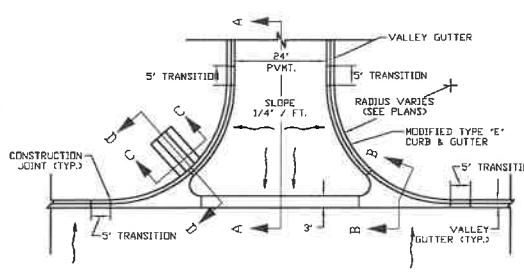
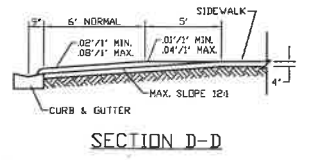
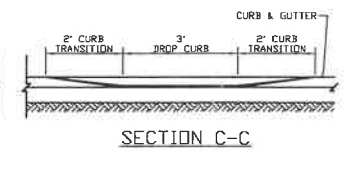
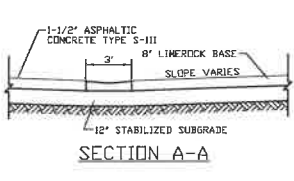
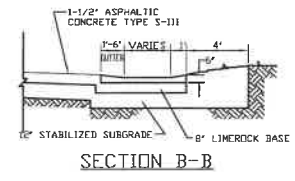


NOTE:  
FURTHER DESIGN OF TYPE 'C' INLET  
SEE FDOT STD INDEX #232  
USF 6300 GRATE

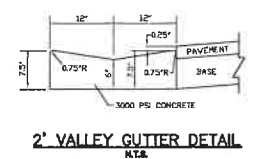
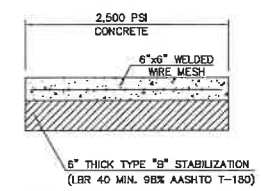


**CONCRETE CURB JOINTS**

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, UNLESS OTHERWISE NOTED.
- AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50' WITH CONTRACTION JOINTS AT 10' INTERVALS BETWEEN.
- PVC SLIP JOINTS SHALL BE CONSTRUCTED TO PERMIT EXPANSION & CONTRACTION OF STEEL ACROSS JOINT.
- EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2\"/>

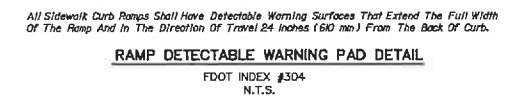
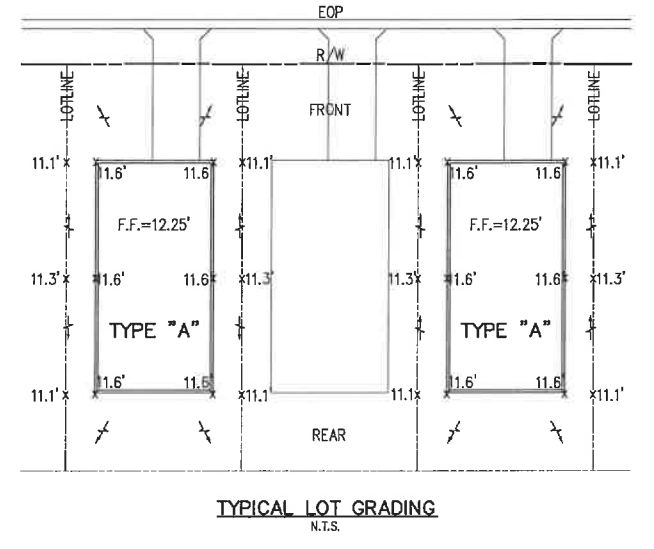
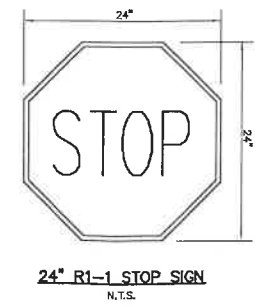
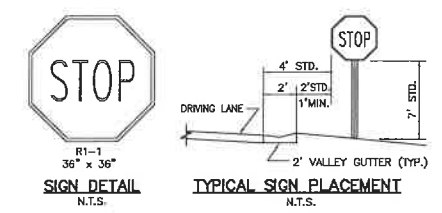
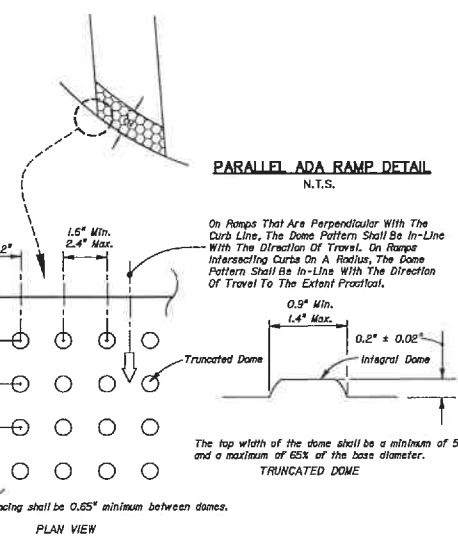


NOTES:  
1. 6\"/>



NOTES:  
1. SIDEWALKS TO BE 4\"/>

2. SOLID WASTE PAD TO BE 6\"/>



PREPARED FOR:

**HABITAT MCNEILL, LLC.**  
1288 NORTH TAMiami TRAIL  
NORTH FORT MYERS FL 33903

NO.	DATE	REVISION DESCRIPTION	BY

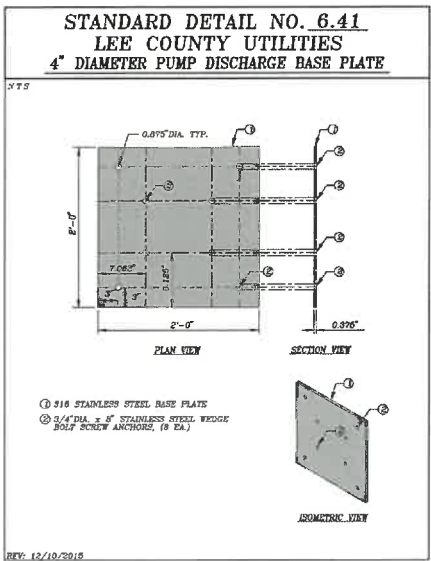
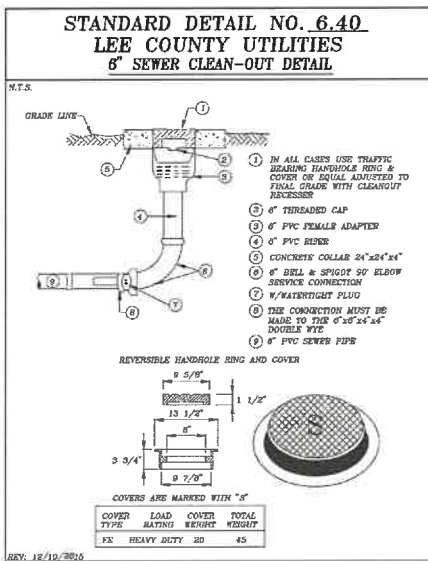
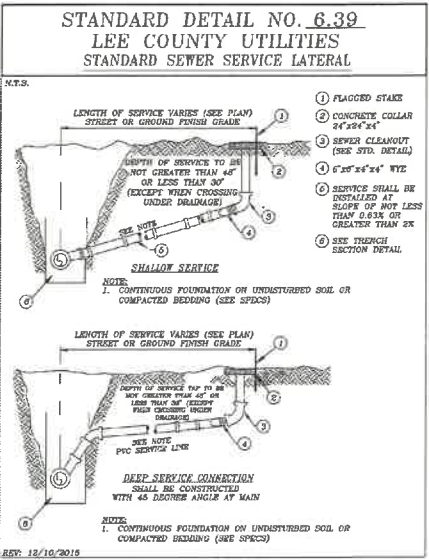
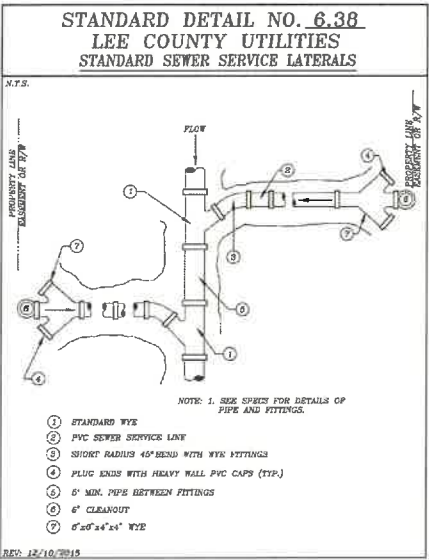
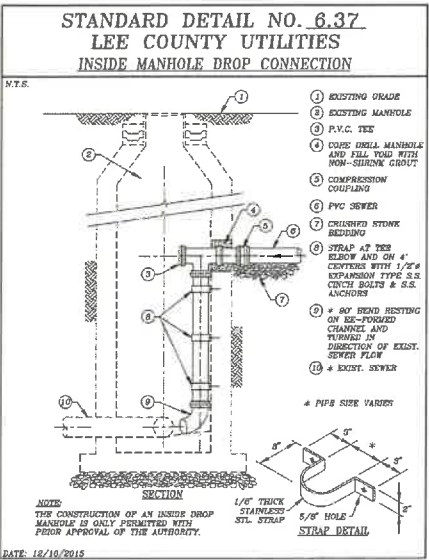
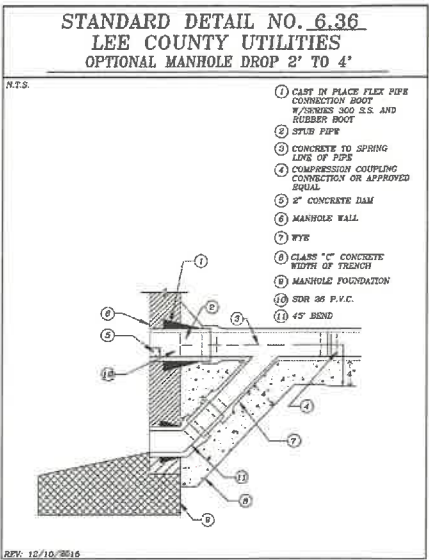
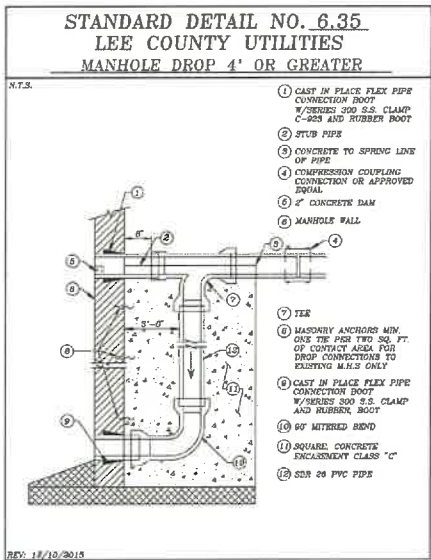
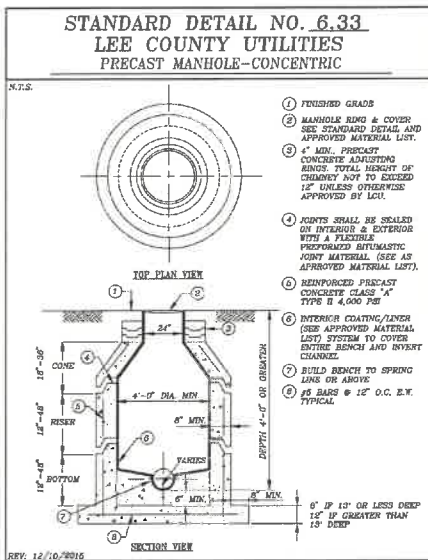
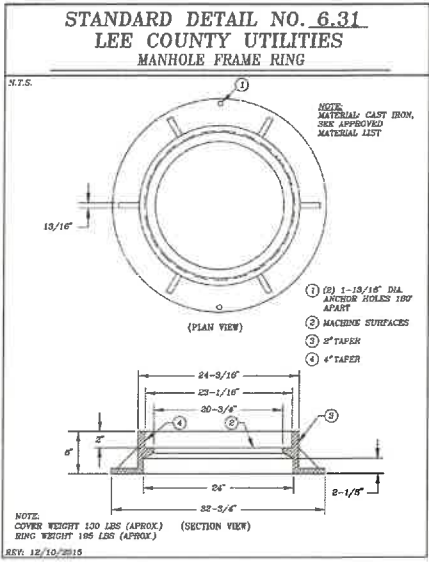
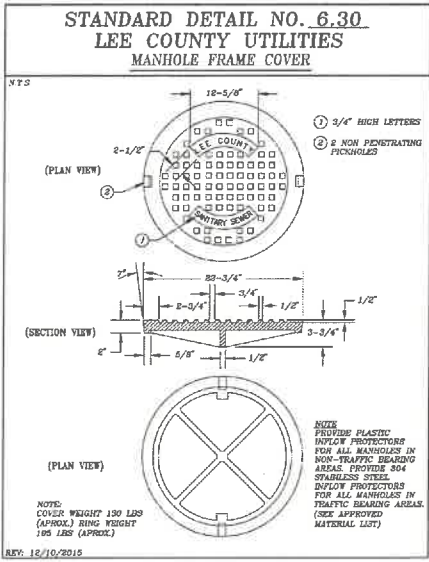
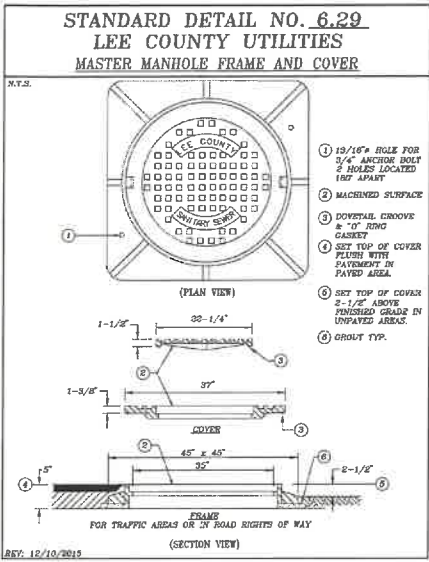
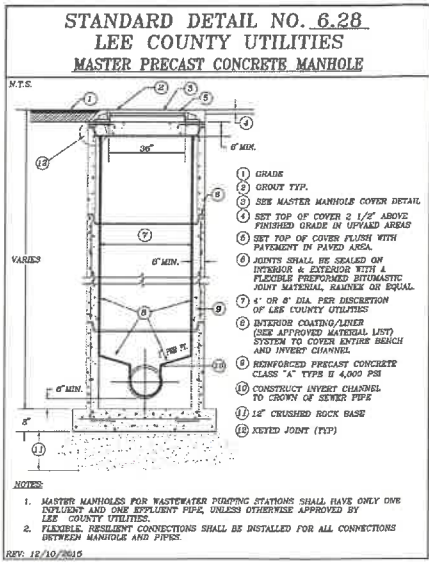
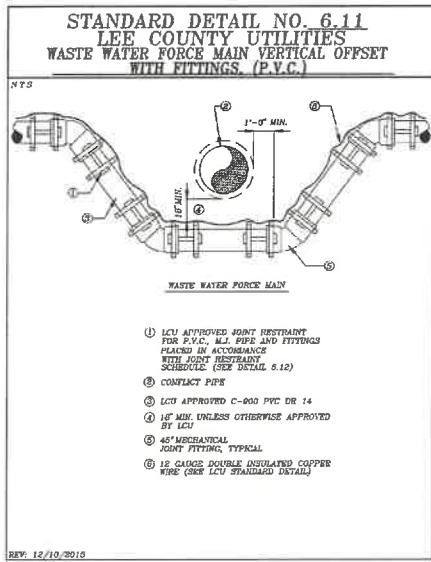
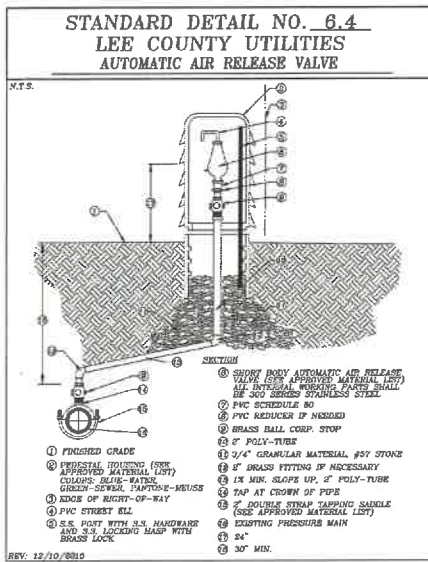
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PAVING, GRADING & DRAINAGE DETAILS - 1  
**HABITAT MCNEILL, LLC.**  
LEE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	8268	PG&D DTLS	JRK	JLS	SWM	N.T.S.	12





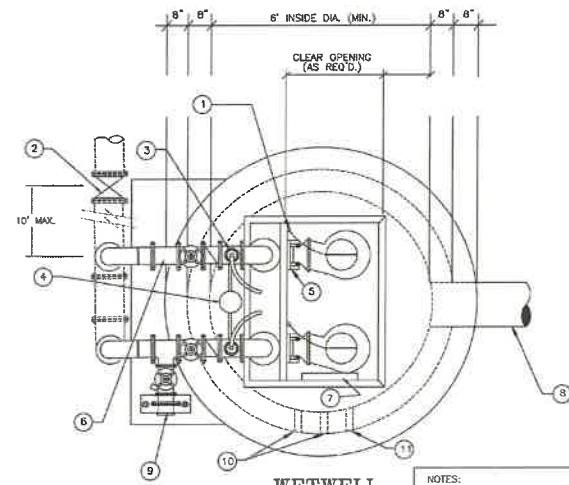
PREPARED FOR:  
**HABITAT MCNEILL, LLC.**  
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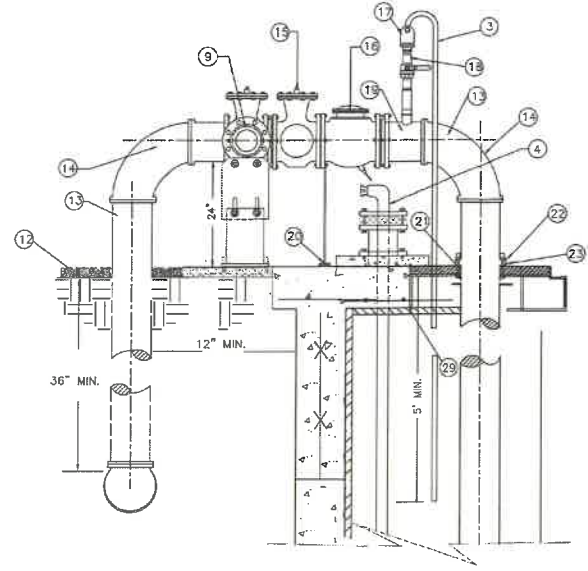
Professional Engineer  
Samuel W. Marshall, P.E.  
Professional Engineer  
Samuel W. Marshall, P.E.  
Professional Engineer  
Samuel W. Marshall, P.E.

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	8268	UTL-SEWER	JRK	JLS	SWM	N.T.S.	14

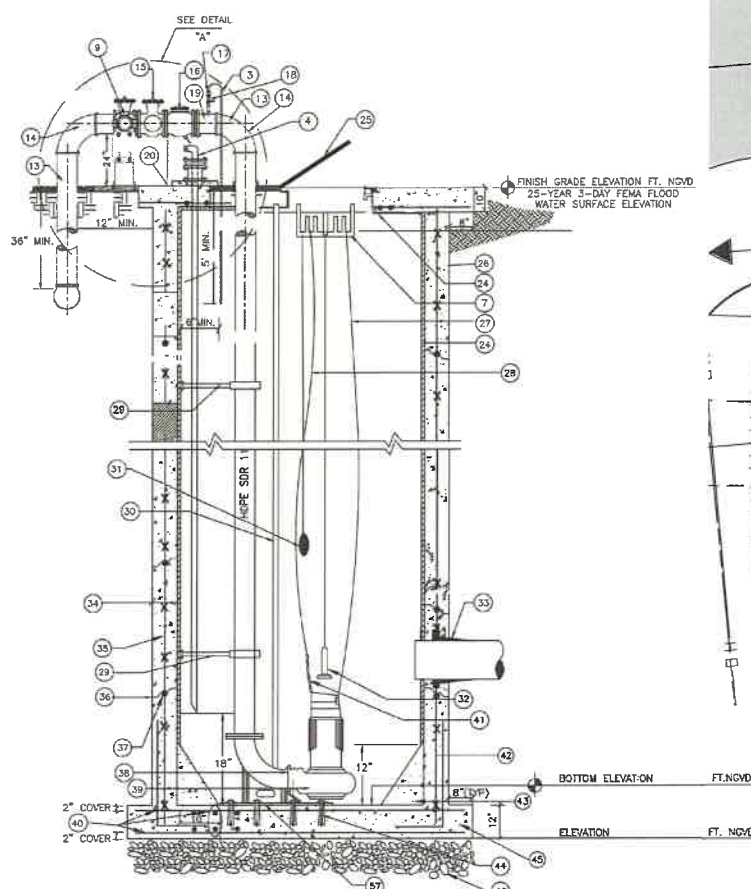


**WETWELL  
PLAN  
N.T.S.**

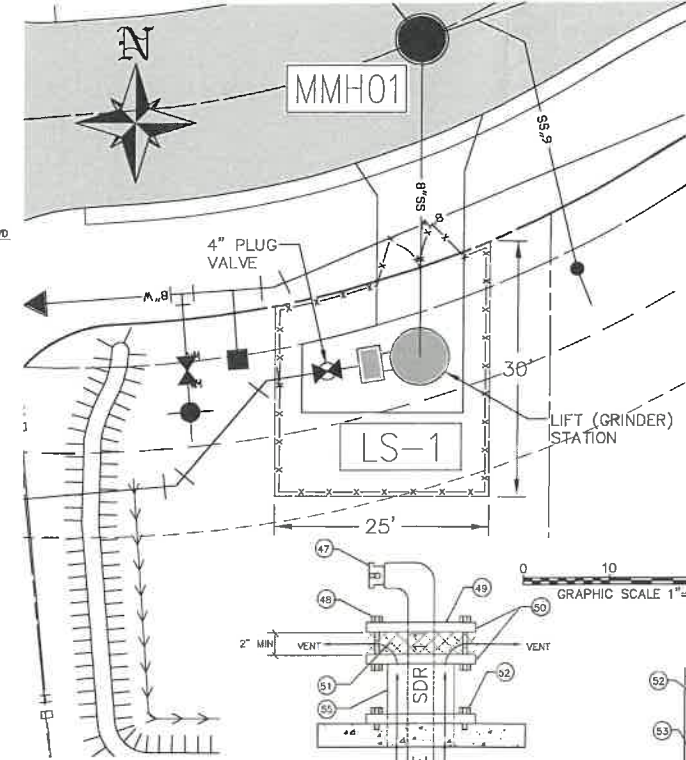
**NOTES:**  
CONTRACTOR TO SET PUMPS AND ACCESS COVER TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS.  
CONDUIT FOR PUMP POWER CABLES & FLOAT SWITCH CABLES, PLACEMENT IS TO BE DETERMINED BY LOCATION OF CONTROL PANEL.



**DETAIL "A"  
N.T.S.**



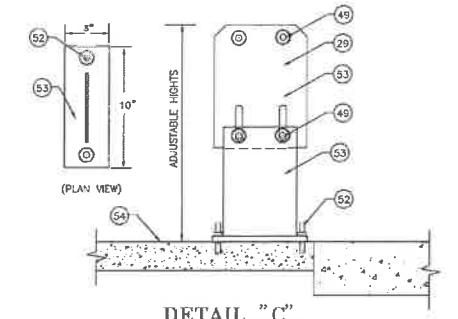
**SECTION  
N.T.S.**



**DETAIL "B"  
N.T.S.**

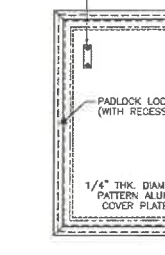
**GENERAL NOTES AND REQUIREMENTS**

- 1 1/4" THK. SERIES 300 STAINLESS STEEL HOOKS FOR HOIST CABLES
- 2 PLUG VALVE
- 3 PVC DRAIN LINE FROM AIR RELEASE VALVE TO WET WELL
- 4 EMERGENCY PUMP OUT AND AIRVENT (SAME DIAMETER AS DISCHARGE PIPING) (SEE DETAIL "B")
- 5 GUIDE RAILS
- 6 SPOOL PIECE
- 7 STAINLESS STEEL FLOAT CABLE SUPPORT
- 8 INFLUENT PIPE INSTALLED RADIALLY FROM WETWELL CENTER
- 9 FEMALE QUICK CONNECT COUPLER WITH CAP AND PLUG VALVE
- 10 POWER CABLE
- 11 FLOAT CONTROLS
- 12 FILTER CLOTH WITH 4" OF COMPACTED #57 STONE
- 13 HDPE PIPE
- 14 LONG RADIUS 90° BEND
- 15 PLUG VALVE (PAINT BLACK)
- 16 SWING FLEX CHECK VALVE (PAINT BLACK)
- 17 2" AUTOMATIC AIR RELEASE VALVE; (SEE LCU APPROVED MATERIAL LIST) ON EACH DISCHARGE PIPE
- 18 2" STAINLESS STEEL BALL VALVE (SEE APPROVED MATERIAL LIST)
- 19 HOPE BRANCH SADDLE PE 3408 ASTM D3350 (BLACK) WITH FEMALE THREADED INSERT BRASS ALLOY
- 20 STAINLESS STEEL PIPE SUPPORT (SEE DETAIL "C")
- 21 NEOPRENE GASKET
- 22 STAINLESS STEEL FLANGE RING
- 23 HDPE RIM (FUSED TO HDPE PIPE)
- 24 LINER OR COATING (SEE LCU APPROVED MATERIAL LIST)
- 25 ALUMINUM HATCH (SEE DETAIL D)
- 26 COAL TAR EPOXY (BELOW FINISHED GRADE)
- 27 SENSOR CABLE
- 28 SERIES 316 STAINLESS STEEL 1/4" CABLE
- 29 SERIES 316 STAINLESS STEEL PIPE SUPPORT
- 30 2" SERIES 316 STAINLESS STEEL GUIDE RAILS
- 31 HIGH WATER ALARM SIGNAL CN
- 32 SUBMERSIBLE LEVEL TRANSMITTER
- 33 CAST IN PLACE FLEXIBLE PIPE CONNECTION WITH SERIES 316 STAINLESS STEEL CLAMP, C-923, CHARCON RUBBER, 0/2 (TYP.) WALL THICKNESS 8" MIN.
- 34 STEEL REINFORCEMENT
- 35 RAM-NEK BLANKET OUTER SIDE OF WET WELL
- 36 RAM-NEK OR EQUAL PREFORMED PLASTIC GASKET MATERIAL BETWEEN PRECAST UNITS (TYP.)
- 37 AUTOMATIC DISCHARGE CONNECTION TO SUIT PUMP SUBMERSIBLE PUMPS
- 38 #5 AT 8" CENTER
- 39 SERIES 316 STAINLESS STEEL 3/8" CHAIN (1'-6" LONG)
- 40 #4 AT 8" CENTER
- 41 CONC/CR PORTLAND TYPE II & SAND MIX
- 42 3/4" DIA. x 8" STAINLESS STEEL WEDGE BOLT SCREEN ANCHORS, 8 EA. REFER TO LCU STANDARD DETAIL
- 43 BASE SECTION TO BE A MONOLITHIC CASTING
- 44 12" MIN. COMPACTED #57 STONE
- 45 CAM LOCK COUPLING ON EMERGENCY PUMP OUT
- 46 STAINLESS STEEL BOLTS
- 47 BLIND FLANGE
- 48 STAINLESS STEEL CLAMP
- 49 STAINLESS STEEL SCREEN CLOTH
- 50 STAINLESS STEEL CONCRETE BOLTS
- 51 3/8" STAINLESS STEEL
- 52 4" THICK 3,000 P.S.I. CONCRETE SLAB
- 53 AIR VENT TO BE 2 PIPE SIZES LARGER THAN EMERGENCY PUMP OUT, THE ACTUAL LOCATION IS TO BE DETERMINED IN THE FIELD.
- 54 LCU PREFERRED THE LIFT STATION FENCE TO HAVE DARK GREEN VINYL COATING, HOWEVER, BLACK VINYL IS ACCEPTABLE.
- 55 PUMP DISCHARGE BASE PLATE, REFER TO LCU STANDARD DETAIL



**DETAIL "C"  
N.T.S.**

**NOTES:**  
1- MATERIAL: ALUMINUM  
2- LOADING: 300 LBS. PER SQ. FT.  
3- 304 STAINLESS STEEL BOLTS



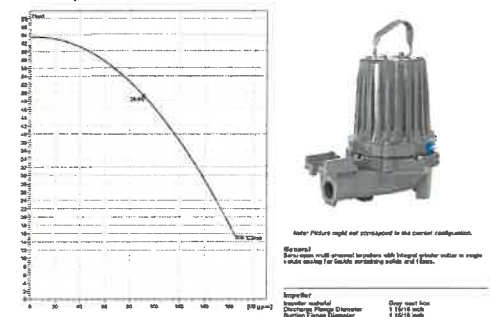
**DETAIL "D"  
WETWELL ACCESS HATCH  
N.T.S.**

NUMBER OF PUMPS	# 1	# 2	# 3
PUMP MANUFACTURER	FLYGT	FLYGT	
PUMP MODEL NUMBER	MP3102	MP3102	
IMPELLER NUMBER	216	216	
TYPE OF PUMP	GRINDER		
DESIGN CAPACITY PER PUMP	100	100	(GPM)
TOTAL DYNAMIC HEAD	40	40	(FEET)
SHUT-OFF HEAD	63	63	(FEET)
DESIGN SPEED	3450	3450	(PRM)
MIN. HORSEPOWER PER PUMP	6	6	(HP)
VOLTS	220	220	(VOLTS)
PHASE POWER	3	3	(PH)
PUMP DISCHARGE SIZE	2	2	(INCHES)
DIAMETER RISER PIPE	4	4	(INCHES)
PUMP ON ELEVATION	-1.16	-1.16	(FEET)
HIGH WATER ALARM	-0.66		(FEET)
PUMP OFF ELEVATION	-2.16		(FEET)
DIAMETER PIPE AFTER RISER	4		(INCHES)
DIAMETER WETWELL (L.D.)	6		(FEET)
TOP OF WETWELL ELEVATION	11.6'		(FEET)
BOTTOM ELEVATION	-2.66		(FEET)
INFLUENT GRAVITY PIPE ELEVATION	0.34		(FEET)

	BASIS OF DESIGN		
	ADF (gpm)	PHF (gpm)	EDU (1 EDU=250 gpd)
EXISTING	N/A	N/A	N/A
INTERIM	N/A	N/A	N/A
FUTURE	28	100	576



**MP 3102 LT 3- 216**  
Technical specification



Property	Value
Motor	3000 RPM 1/2 HP 115V 1-Phase
Impeller	3000 RPM 1/2 HP 115V 1-Phase
Material	304 Stainless Steel
Weight	15 lbs
Dimensions	12" x 12" x 12"
Flow Rate	100 GPM
Head	63 Feet
Power	6 HP
Motor	3000 RPM 1/2 HP 115V 1-Phase
Impeller	3000 RPM 1/2 HP 115V 1-Phase
Material	304 Stainless Steel
Weight	15 lbs
Dimensions	12" x 12" x 12"
Flow Rate	100 GPM
Head	63 Feet
Power	6 HP

FILE: S:\ENGINEERING\AD\AD-LOC-CAP-STATION\EDU DETAILS\CAD FILES  
SCALE: 1/8" = 1'-0"  
DATE: 12/10/2015

**LEE COUNTY  
ENGINEERING**  
1500 Monroe St., Fort Myers, Florida 33901  
Ph. (239) 533-8181 Fax. (239) 485-8285

STANDARD DETAIL NO. 6.42  
PUMP STATION DETAIL  
USING ABOVE GROUND  
DISCHARGE PIPING

SHEET: 1 of 2

PREPARED FOR:  
**HABITAT MCNEILL, LLC.**  
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NO.	DATE	REVISION DESCRIPTION	BY

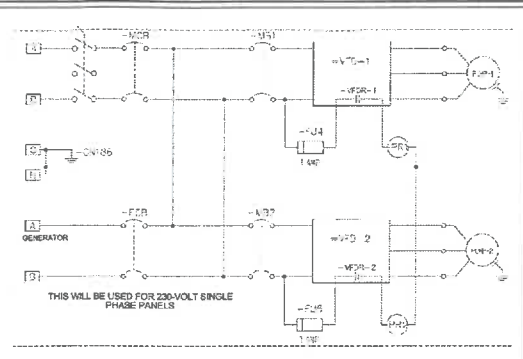
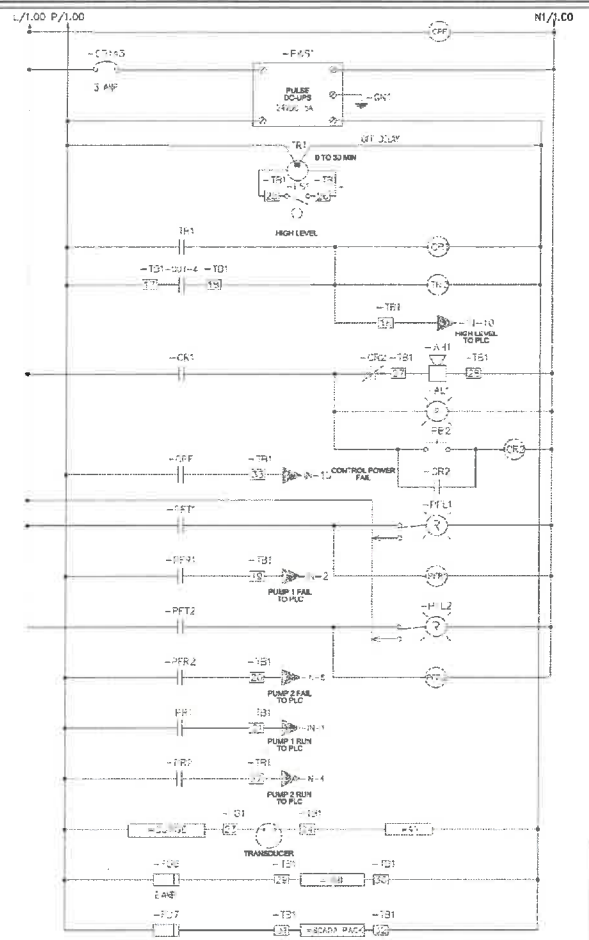
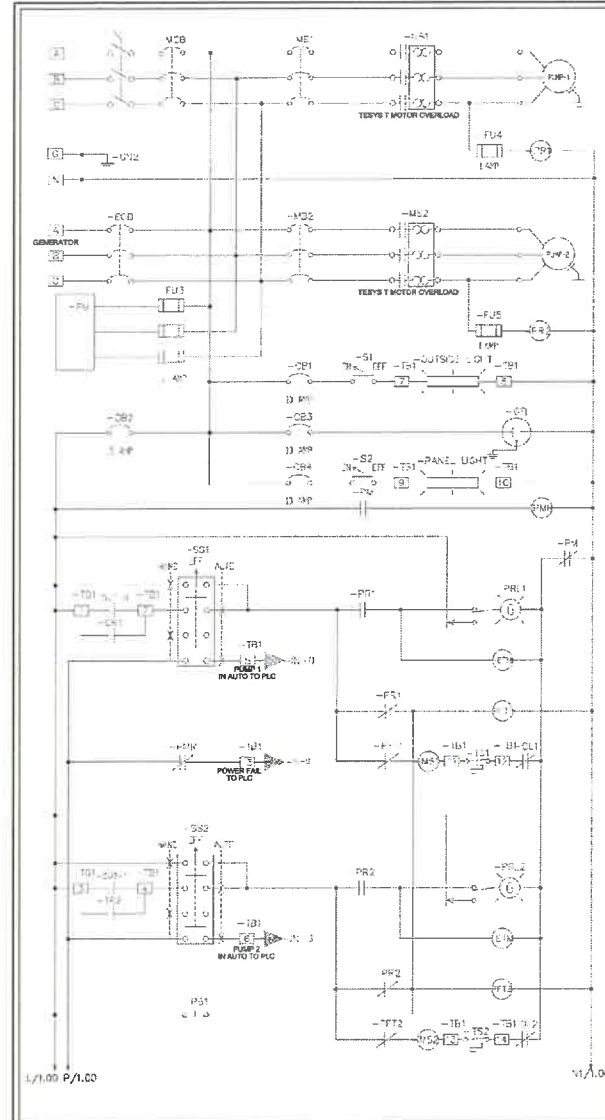
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Samuel W. Marshall  
P.E. LIC. #48881

LIFT STATION DETAILS - 1  
HABITAT MCNEILL, LLC.  
LEE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	8268	LS-1	JRK	JLS	SWM		15



**COMPONENT LEGEND**

AL - ALARM LIGHT	LCB - LIGHT CONTROL BREAKER
ALT - ALTERNATOR	MB - MOTOR BREAKER
ATS - ALTERNATOR TEST SWITCH	MCB - MAIN CIRCUIT BREAKER
AV - AIR VENT	MS - MOTOR STARTER
BCB - BLOWER CONTROL BREAKER	DL - OVERLOAD
CCB - CONTROL CIRCUIT BREAKER	PF - PUMP FAILURE
DDPT - DOUBLE-POLE, DOUBLE-THROW	PFT - PUMP FAILURE TIMER
DR - DISABLE RELAY	PM - PHASE MONITOR
DRB - DUPLEX RECEPTACLE BREAKER	PR - PUMP RUN
ECB - EMERGENCY CIRCUIT BREAKER	R - RELAY
ETM - ELAPSED TIME METER	RCB - RTU CIRCUIT BREAKER
F - FUSE	RECB - RECEPTACLE CONTROL BREAKER
FB - FUSE BLOCK	RL - RUNNING LIGHT
FL - FLASHER	RTU - REMOTE TELEMETRY UNIT
FLG - FLUORESCENT LIGHT	T - TERMINAL
FLS - FLUORESCENT LIGHT SWITCH	TB - TERMINAL BLOCK
FR - FLOAT REGULATOR	TD - TIME DELAY
FTS - FLOAT TEST SWITCH	TDDE - TIME DELAY ON DE-ENERGIZE
GFDR - GROUND FAULT DUPLEX RECEPTACLE	TDDEE - TIME DELAY ON ENERGIZE
GRD - EARTH GROUND	TDPT - TRIPLE-POLE, DOUBLE-THROW
GR - GENERATOR RECEPTACLE	TT5 - THERMAL TERMINAL STRIP
HDA - HAND-OFF-AUTO SELECTOR SWITCH	XFMR - TRANSFORMER
LA - LIGHTNING ARRESTOR	PPR - PUMP FAIL RESET

**GENERAL NOTES AND REQUIREMENTS**

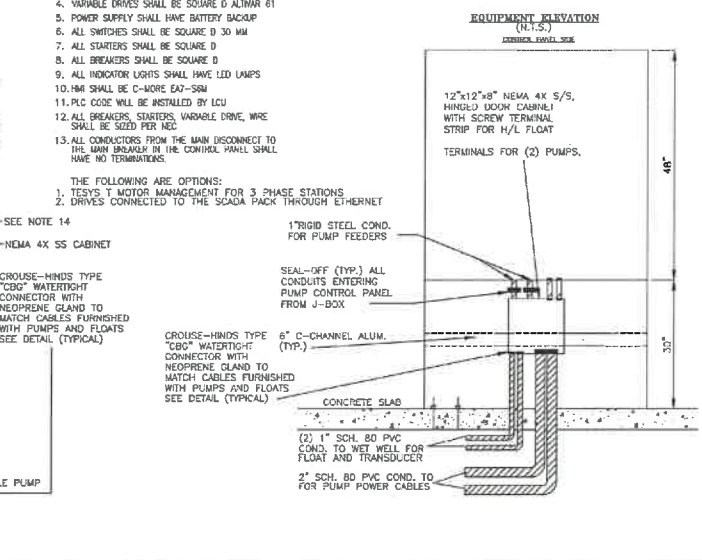
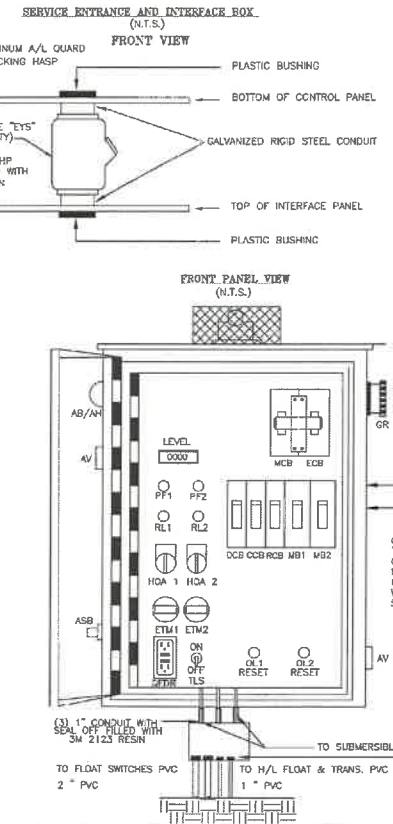
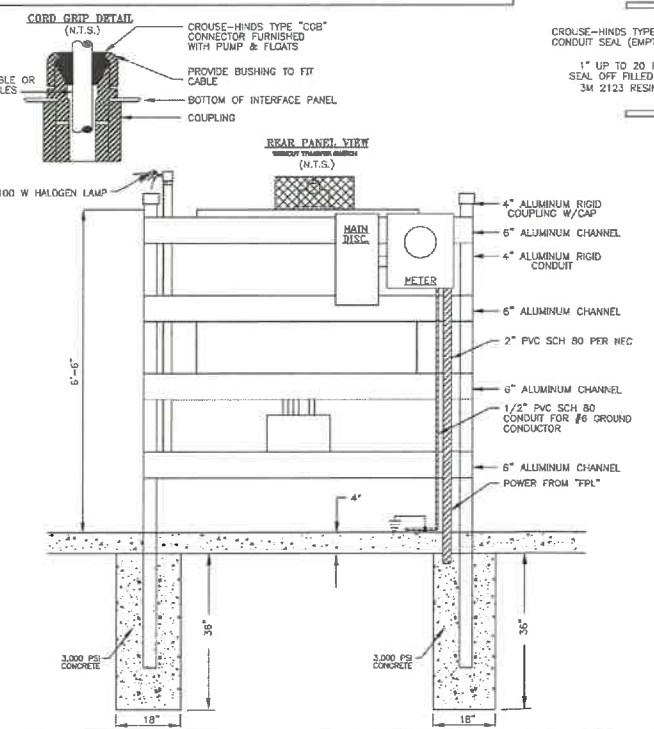
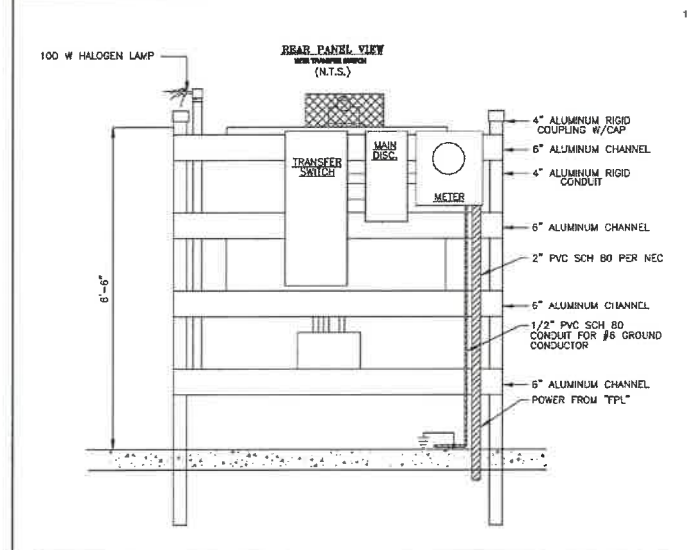
1. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE STANDARD BUILDING CODES AND LOCAL CODES AS MAY BE APPLICABLE. SIX SHOP DRAWINGS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED PRIOR TO ORDERING EQUIPMENT.
2. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND COSTS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.
3. ALL EQUIPMENT, FIXTURES, ETC., SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THIS CONTRACTOR WHO SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF (1) ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY (C.O.), AND SHALL REPAIR SUCH DEFECTS WITHOUT COST TO THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY, AND THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S GUARANTEES AND WARRANTIES.
4. ALL WIRE SIZES SHOWN ARE FOR TINNED COPPER CONDUCTORS.
5. THE ELECTRICAL CONTRACTOR SHALL INSTALL METERING OF A TYPE APPROVED BY THE UTILITY COMPANY AND LISTED. THIS METER SHALL BE MADE OF ALUMINUM OR STAINLESS.
6. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL DETAILS OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS SUCH AS HARDWARE, CONDUIT FITTINGS, P.T.C., AS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM IN WORKING ORDER.
7. PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ART. 250, PART 74 MINIMUM INSTALLATION TO INCLUDE FOOTER/FOUNDATION REINFORCING STEEL (20' OF #4 MIN. SIZE), TURNED UP OR OTHERWISE EXPOSED AT THE SERVICE WITH APPROVED CONDUCTORS BONDING A GROUNDING CONDUCTOR SIZED PER TABLE 250-94 TO THE STEEL AND A DRIVEN ROD GROUND (MIN. 5/8" X 8' DEPT) WITH #6 COPPER GROUNDING CONDUCTOR. ALSO BOND METAL PIPING AND EQUIPMENT.
8. ALL FASTENERS FOR CONSTRUCTION OF THE PANEL ENCLOSURE SHALL BE TYPE 304 5/8 SCREWS, NUTS, DOLTS & WASHERS.
9. PLASTIC WARNING LABELS STATING "DANGER HIGH VOLTAGE" "PUMP STATION VOLTAGE" IN RED WITH 1" WHITE LETTERS, SECURE LABEL TO DOOR.
10. NON FUSED SAFETY DISCONNECT SWITCH SHALL BE SO-D CLASS J110 IN NEMA 4X STAINLESS STEEL ENCLOSURE C/W HANDLE WITH POWER ON POSITION LOCKING PLATE. POWER SUPPLY TO CONTROL PANEL SHALL EXIT THRU UNDERSIDE. DISCONNECT BOX SHALL HAVE LOCKABLE QUICK RELEASE DOOR LATCH ON CABINET ENCLOSURE. (NO SCREW DOWN COVER WILL BE ACCEPTED) NOTE: IF SITE HAS GENERATOR DISCONNECT SHALL HAVE A BREAKER SIZED PER NEC IN A CLASS 610 SO-D NEMA 4X SS BREAKER ENCLOSURE.
11. LADDER DIAGRAM IS DRAWN FOR THREE PHASE 230V. CHANGES ARE REQUIRED FOR SINGLE PHASE 230V, THREE PHASE 208V OR THREE PHASE 480V.
12. CONTROL PANEL ENCLOSURE SHALL HAVE A PAINTED STEEL BACKPLATE, AND ALUMINUM HEADFRONT DOOR. ENCLOSURE SHALL BE TYPE 304 STAINLESS STEEL, NEMA 4X CASING TYPE WITH PAD LOCKABLE HASP, THREE POINT LATCH SYSTEM AND WIND RESTRAINER ARM THAT INCLUDES HARDWARE TO RESTRAIN DEADFRONT DOOR WHEN OPEN. ALL METAL COMPONENTS OF LATCH SYSTEM AND RESTRAINER TO BE MANUFACTURED OF TYPE 304 STAINLESS STEEL. ALL DEVICES MOUNTED ON ENCLOSURE ARE TO BE GASKETED OR CALKED WITH SEALANT TO RETAIN NEMA RATING. ENCLOSURE SHALL BE FURNISHED WITH TYPE 304 STAINLESS STEEL 1-7/8 UNISTRUTS, WELDED. PROVIDE 1-7/8" STAINLESS STEEL CHANNEL STRUT C/W TYPE 304 STAINLESS STEEL NUTS AND BOLTS TO SUIT, AS SUPPLIED BY B-LINE SYSTEMS INC. OR EQUAL. ISOLATE DISSIMILAR METALS WITH TEFLON GASKETING. PROVIDE PAD LOCKING PROVISIONS. PANEL SHALL BE ASSEMBLED IN A UL 40B RATED SHOP.
13. ALL ELECTRICAL CONDUITS TO/TROM CONTROL PANELS AND SERVICE FEEDER ARE TO DROP VERTICALLY TO CONCRETE SLAB AND ROUTED UNDER SLAB TO THEIR RISE LOCATION AND CONTINUE VERTICALLY TO DESTINATION.
14. AFTER ALL WIRING IS COMPLETED, ALL COB'S MUST BE TIGHTENED TO SEAL AROUND CABLES.
15. FLOATS SHALL HAVE MERCURY CONTACTS.
16. PLC, RTU SHALL PROVIDE THE FUNCTIONS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.
17. WHEN AN ODOOR CONTROL SYSTEM IS REQUIRED THE PANEL MANUFACTURER SHALL PROVIDE AN APPROPRIATELY SIZED BREAKER AND AN ALARM CONTACT FOR THE RTU.
18. THE VARIABLE DRIVE SHALL BE A SOLID STATE VFD 61 OR APPROVED EQUAL BY LCU. PROPER VENTILATION SHALL BE PROVIDED AS PER MANUFACTURER SPEC.
19. THE CONTRACTOR SHALL PROVIDE A LIGHTNING SURGE ARRESTOR RATED FOR THE INCOMING VOLTAGE AND CURRENT.
20. WHEN PANEL IS SUPPLIED WITH 480 VOLT A SIGN SHALL BE ADDED BY GFI RECEPTACLE STATING NOT RATED FOR POWER TOOLS.
21. ALL FEEDER WIRING FROM THE MAIN DISCONNECT TO THE CONTROL PANEL MAIN BREAKER SHALL HAVE NO TERMINATIONS, OR SPLICES NO EXCEPTIONS.

**ELECTRICAL NOTES:**

1. RTU SHALL BE SCADA PACK 334E
2. MODEM OR ANY OTHER COMMUNICATIONS WILL BE SUPPLIED BY LCU
3. VARIABLE DRIVES TO BE USED ON ALL SINGLE PHASE POWER
4. VARIABLE DRIVES SHALL BE SQUARE D ALUMIN 61
5. POWER SUPPLY SHALL HAVE BATTERY BACKUP
6. ALL SWITCHES SHALL BE SQUARE D 30 MM
7. ALL STARTERS SHALL BE SQUARE D
8. ALL BREAKERS SHALL BE SQUARE D
9. ALL INDICATOR LIGHTS SHALL HAVE LED LAMPS
10. RM SHALL BE C-MORE EX-SW
11. PVC COSE WILL BE INSTALLED BY LCU
12. ALL BREAKERS, STARTERS, VARIABLE DRIVE, WIRE SHALL BE SIZED PER NEC
13. ALL CONDUCTORS FROM THE MAIN DISCONNECT TO THE MAIN BREAKER IN THE CONTROL PANEL SHALL HAVE NO TERMINATIONS.

**THE FOLLOWING ARE OPTIONS:**

1. TESYS T MOTOR MANAGEMENT FOR 3 PHASE STATIONS
2. DRIVES CONNECTED TO THE SCADA PACK THROUGH ETHERNET



SCALE: 1/8" = 1'-0" (ELECTRICAL)  
DATE: 12/17/2018

LEE COUNTY UTILITIES ENGINEERING  
1500 Monroe St., Fort Myers, Florida 33901  
Ph. (239) 633-9181 Fax. (239) 485-8385

STANDARD DETAIL NO. 6.43  
ELECTRICAL DIAGRAM AND NOTES

SHEET: 29

PREPARED FOR:  
**HABITAT MCNEILL, LLC.**  
1288 NORTH TAMiami TRAIL  
NORTH FORT MYERS FL 33903

**BANKS ENGINEERING**  
Professional Engineers, Planners, & Land Surveyors  
Serving The State of Florida

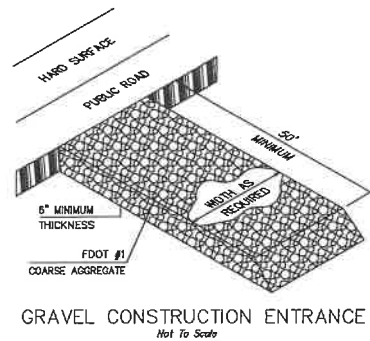
10511 SIX MILE CYPRESS PARKWAY  
FORT MYERS, FLORIDA 33998  
PHONE: (239) 939-5490 FAX: (239) 939-2523  
ENGINEERING LICENSE # EB 6469  
SURVEY LICENSE # LB 6690  
WWW.BANKSENG.COM



DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
7/9/2018	8268	LS-2	JRK	JLS	SWM		16

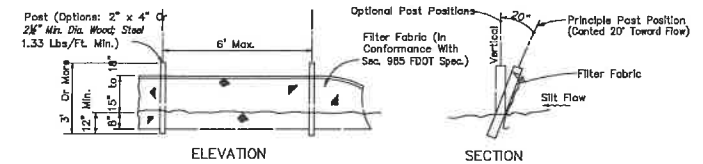
LIFT STATION DETAILS - 2  
**HABITAT MCNEILL, LLC.**  
LEE COUNTY, FLORIDA



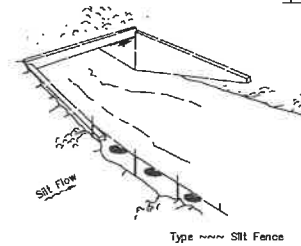


**GENERAL NOTES:**

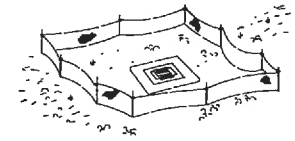
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL THE SURROUNDING AREAS ARE ESTABLISHED.
- THE FOLLOWING MINIMUM REQUIREMENTS ARE RECOMMENDED: (REFERENCE FLORIDA DEVELOPMENT MANUAL, FDER, PPS 6-301 TO 6-500).
  - A) BMP 1.01 - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
  - B) BMP 1.05 - STRAW BALE BARRIER
  - C) BMP 1.06 - SILT FENCE
  - D) BMP 1.08 - STORM INLET DRAIN PROTECTION
- THESE BEST MANAGEMENT PRACTICES (BMP) ARE TYPICAL OF THE REQUIREMENTS FOR SOIL EROSION CONTROL PER DIVISION 3.7 OF THE LEE COUNTY LAND DEVELOPMENT CODE. THEY MAY NOT CONSTITUTE COMPLETE REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND SPECIFIC PERMIT CONDITIONS.



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).  
**TYPE ~~~ SILT FENCE**  
 Not To Scale



Note: Spacing for Type ~~~ Fence to be in accordance with Chart 1, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

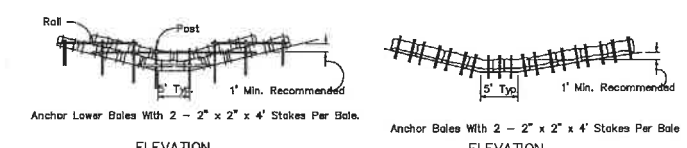
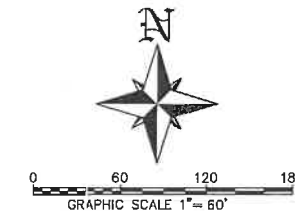


Type ~~~ Silt Fence Protection Around Ditch Bottom Inlets.

Type ~~~ Silt Fence

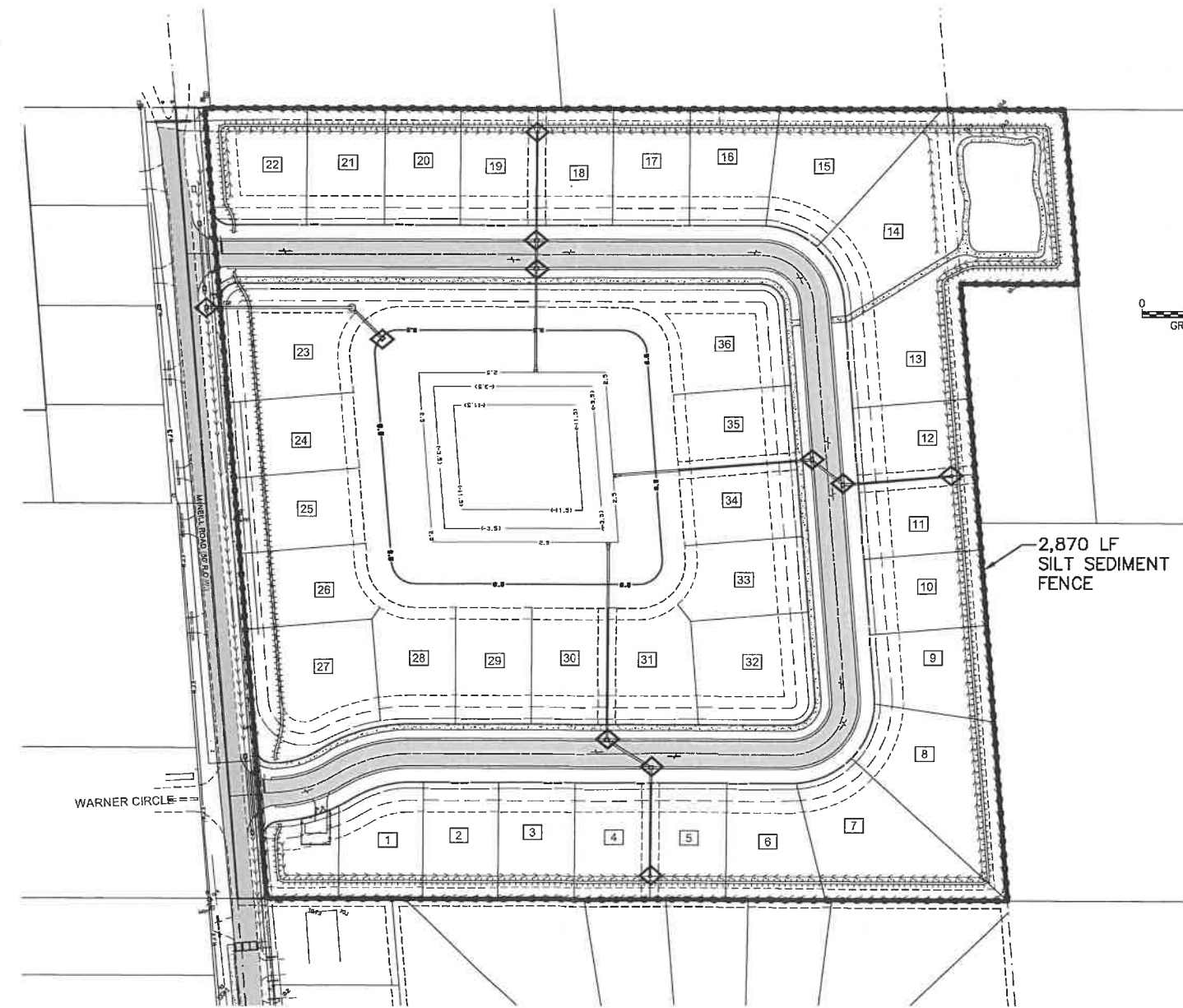
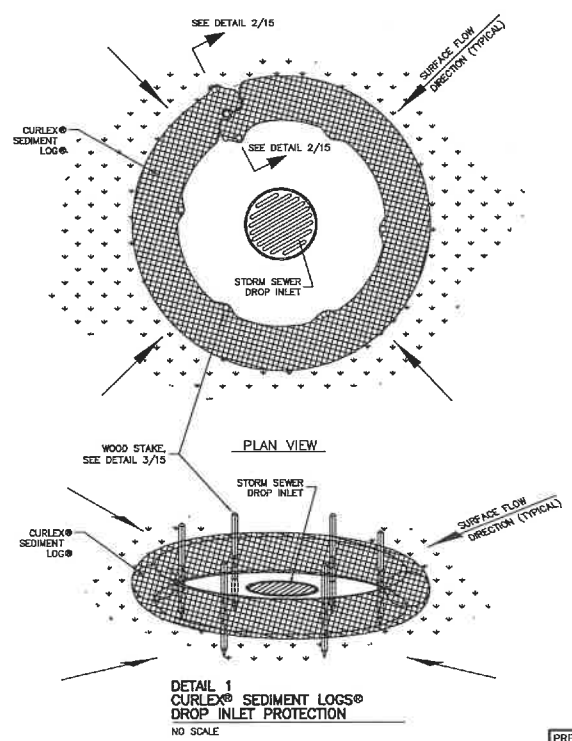
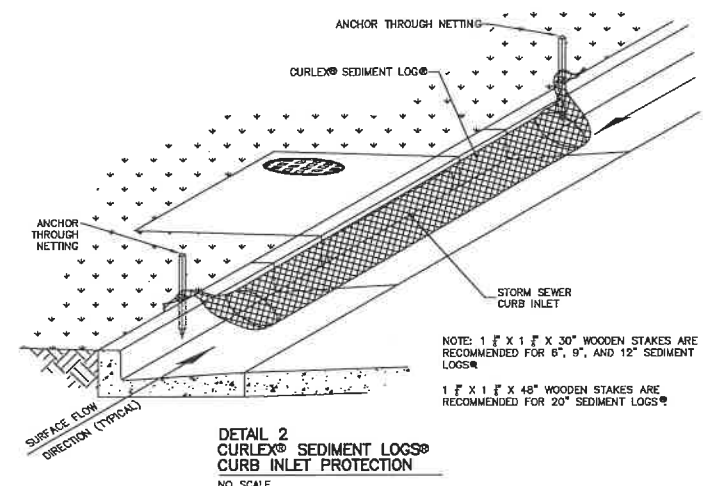
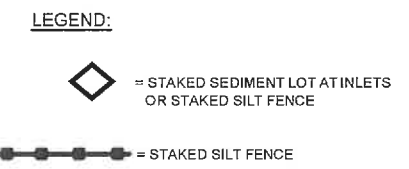
Do not deploy in a manner that all fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

**SILT FENCE APPLICATIONS**  
 Not To Scale



Application and Spacing: The use of Type I & II bale barriers should be limited to the conditions outlined in Chart 1, Sheet 1 of 3, Index No. 102.

**TYPE II BARRIER FOR UNPAVED DITCHES**  
 Not To Scale



**SILT FENCE AND INLET PROTECTION PLACEMENT LOCATIONS**

PREPARED FOR: <b>HABITAT MCNEILL, LLC.</b> 1288 NORTH TAMiami TRAIL NORTH FORT MYERS FL 33903	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION	BY					<b>BANKS ENGINEERING</b> Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida 10511 SIX MILE CYPRESS PARKWAY FORT MYERS, FLORIDA 33906 PHONE: (239) 938-5490 FAX: (239) 938-2523 ENGINEERING LICENSE # EB 6469 SURVEY LICENSE # LB 6890 WWW.BANKSENG.COM	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>PROJECT</th> <th>DRAWING</th> <th>DESIGN</th> <th>DRAWN</th> <th>CHECKED</th> <th>SCALE</th> <th>SHEET</th> </tr> </thead> <tbody> <tr> <td>7/9/2018</td> <td>8268</td> <td>BMP</td> <td>JRK</td> <td>JLS</td> <td>SWM</td> <td>1"=60'</td> <td>17</td> </tr> </tbody> </table>	DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET	7/9/2018	8268	BMP	JRK	JLS	SWM	1"=60'	17
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