



ADDENDUM NO. 4

Issue Date: January 25, 2022

Project Name: Hallstrom Farmstead Parking and Restrooms

Bid Number: 2022019

Bid Opening Date: February 9, 2022 at 2:00 p.m.

This addendum is being released to answer questions received to date and modify the bid documents. The information and documents contained in this addendum are hereby incorporated in Invitation to Bid. **This addendum must be acknowledged where indicated on the Bid Form, or the bid may be declared non-responsive.**

Modifications to Bid Documents:

REPLACE Sheets C1-C17 with Attached Sheets C1-C17 reflecting change date 1/7/22.

REPLACE Section 00310 with attached **Section 00310 Bid Form – Addendum 4**. Bids not submitted on the updated bid form will be rejected.

ADD Drawings LW-G3036-03, sheets 1-5, for added 30' x 30' RCP Shelter (to be provided by owner)

ADD Drawings LW-G2428-03, sheets 1-5, for added 24' x 24' RCP Shelter (to be provided by owner)

ADD Sections 10155 and 10800 to the Technical Specifications

Location of silt fence to be installed by owner prior to constructions is shown on attached **Proposed Silt Fence Location** image.

Replace Section 00520 – Agreement with attached **Section 00520 – Agreement for Public Works – Addendum 4**.

Questions and Answers

1. The bid form has two item (160-4-3 & 160-4-4) referencing Shellrock and washed shell hash respectively. These items are not show on the plan detail sheet (C-11). What is the thickness required for these shell items? Is there a description or specification of the required materials? Does the County or the project engineer have a source for the desired material?
The item 160-4-3 is now item 285-706 and is 6" thick. Item 160-4-4 is 2" thick. Both these are shown on sheet C11 in the details for the "Stabilized (ADA-Accessible) Walking Trail Section" and the "Stabilized Driveway and Parking Lot Section", respectively. Wild Turkey Mine confirmed they had the material on hand on December 8, 2021.
2. For the purpose of ordering a bid bond, does the County have a project estimate?
Estimate is \$300,000 excluding Force Account.

Addendum 4

3. What type of material is required for the partitions and what type of accessories are needed? Drawings show others but does not specify what they are looking for besides a baby changing station.

Please see added sections 10800 and 10155 to the technical specifications.

4. Are prevailing wages required?

Per the LWCF grant manual, Davis-Bacon does not apply, but the other provisions of 2 C.F.R. sections 318-327 do. Section 00520 – Agreement has been updated to incorporate the requirements.

HALLSTROM FARMSTEAD CONSERVATION AREA

SECTIONS 30 & 31, TOWNSHIP 33, RANGE 40
INDIAN RIVER COUNTY, FLORIDA

JUNE 2021
REVISED AUGUST 2021

OWNER / APPLICANT



INDIAN RIVER COUNTY PARKS DIVISION

5500 77TH STREET
VERO BEACH, FL 32967
PH: (772) 226-1883
MS. BETH POWELL, ASSISTANT DIRECTOR

ENGINEER



CIVIL ■ STRUCTURAL ■ SURVEYING ■ ENVIRONMENTAL

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PH: (772) 569-0035
MELBOURNE, FL - PH: (321) 253-1510
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SURVEYOR

HAYHURST LAND SURVEYING INC.

445 9TH STREET S.W. UNIT-7
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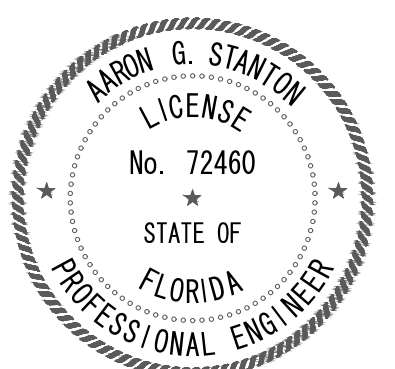
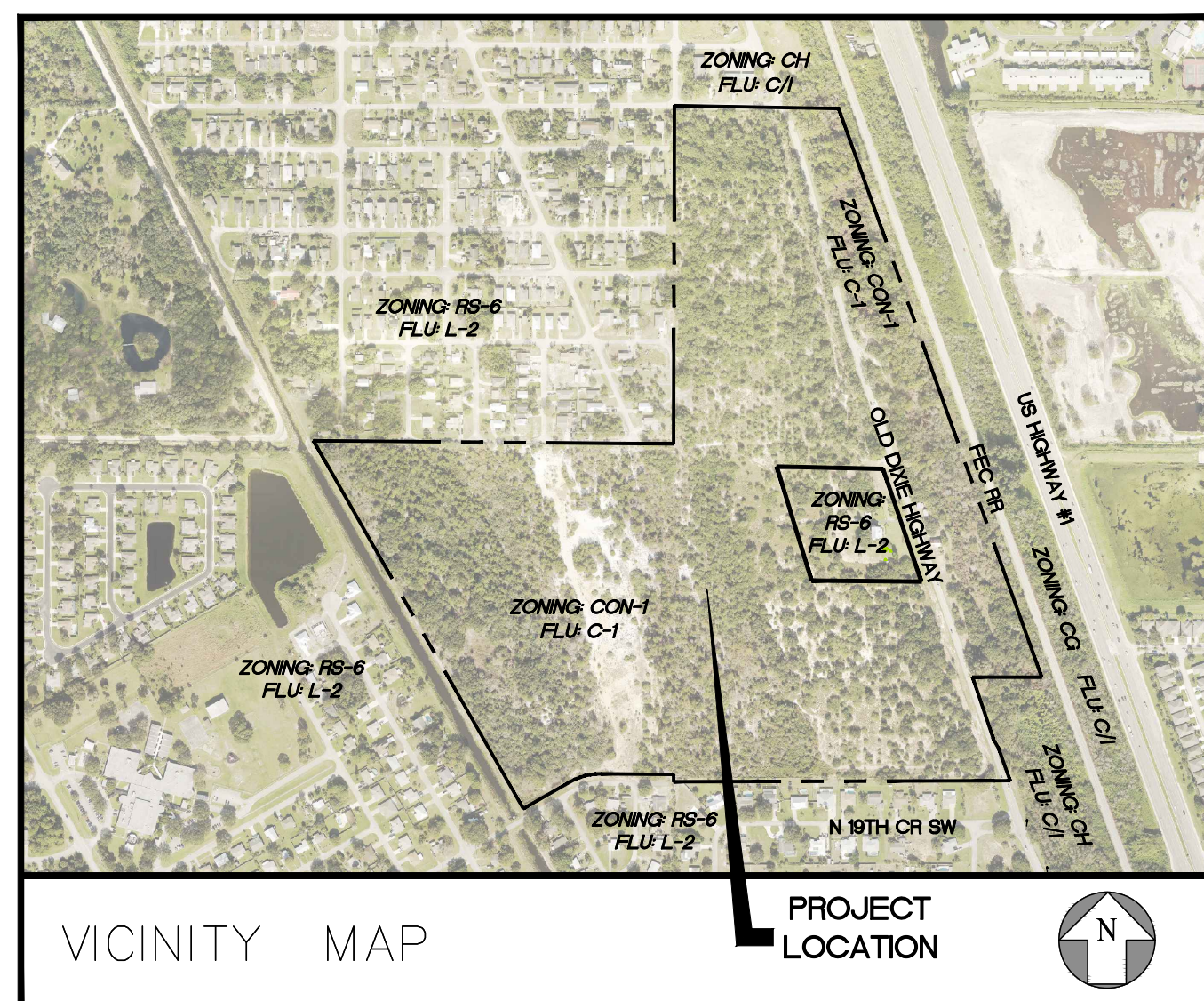
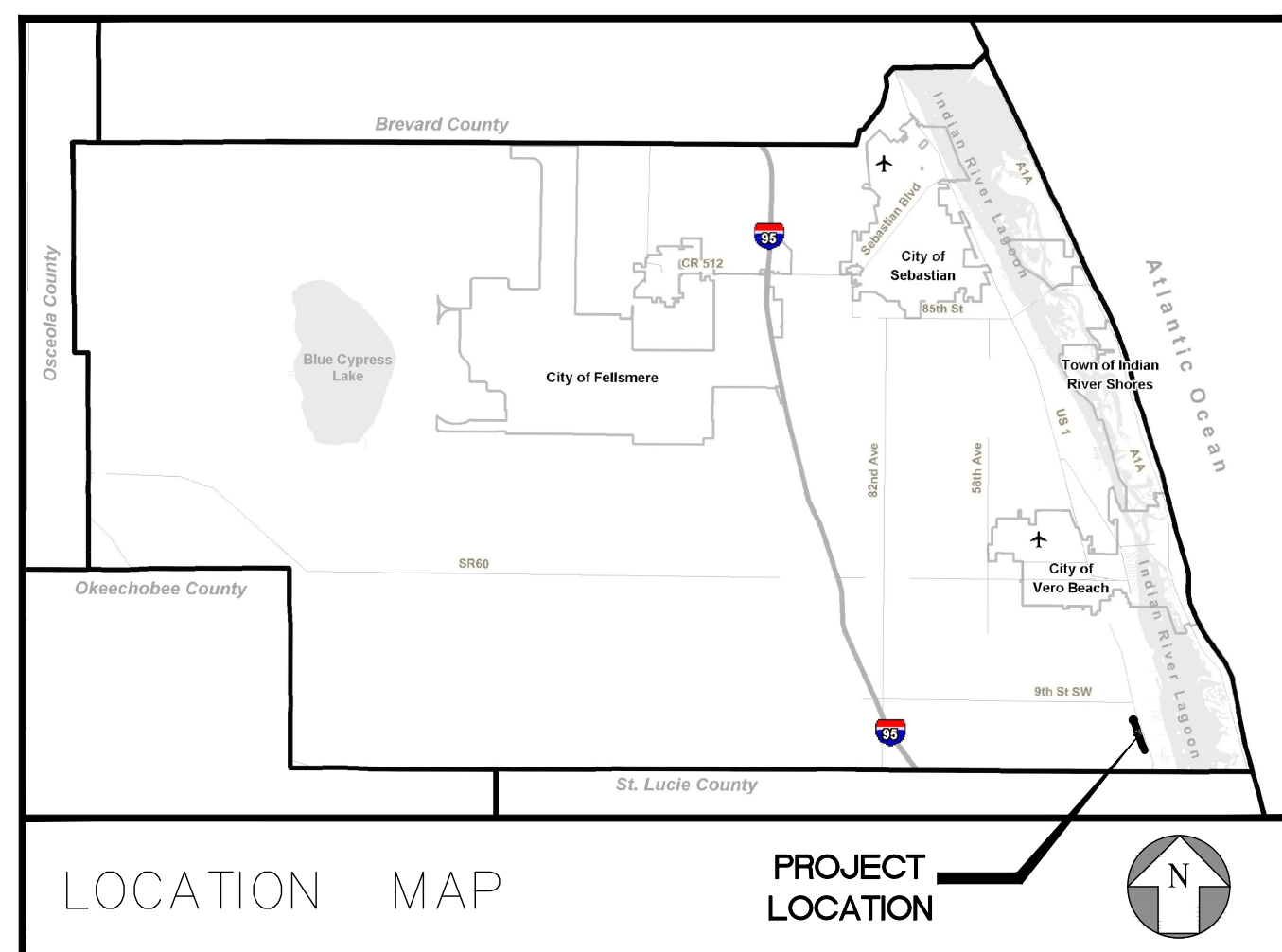
ARCHITECT

EDB ARCHITECTS & ASSOCIATES, P.A.

65 ROYAL PALM POINTE, SUITE D
VERO BEACH, FL 32960
PH: (772) 569-4320

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AARON G. STANTON
FL. P.E. #72460

DATE:
PROJECT: 20-0240

SHEET

C1

PRE-CONSTRUCTION REQUIREMENTS:

- THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE VARIOUS PERMITS WHICH WILL BE OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE (SEQUENCE OF OPERATIONS) PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR WILL ATTEND A PRE-CONSTRUCTION MEETING WITH THE DESIGN ENGINEER, MUNICIPALITY AND/ OR OWNER PRIOR TO LAND DISTURBANCE.
- SHOP DRAWINGS SHALL BE SUBMITTED BEFORE ORDERING MATERIAL FOR PLANNED PROJECT. CORRESPONDING SHALL BE BETWEEN THE DESIGN ENGINEER AND THE LOCAL GOVERNING AGENCY AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES:

- THE CONTRACTOR IS ADVISED TO THOROUGHLY REVIEW THIS PLAN PACKAGE SO AS TO BE TOTALLY PREPARED TO PRESENT HIS BID PRICES IN THE CONTRACT DOCUMENTS. THE PLAN PACKAGE SUFFICIENTLY DELINEATES THE SCOPE AND INTENT OF THE ROADWAY WORK TO BE ACCOMPLISHED. IT WILL, THEREFORE, BE INCUMBERT ON THE CONTRACTOR TO ADJUST HIS FEE DOLLARS TO REFLECT ANY AND ALL ITEMS WHICH MAY NOT BE CLEARLY OUTLINED OR THOSE ITEMS WHICH MAY NOT BE INDICATED BUT WHICH ARE NECESSARY FOR THE SUCCESSFUL COMPLETION OF THIS PROJECT WITHOUT ADDITIONAL COSTS TO THE OWNER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IRC AND FDOT STANDARDS AND SPECIFICATIONS.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR THE COORDINATION OF UTILITY RELOCATION.
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE FIELD WITH UTILITY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION, AS REQUIRED BY THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT. NOTIFY SUNSHINE AT 811.
- CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN EXCAVATING NEARBY EXISTING UTILITIES.
- CONTRACTOR SHALL INFORM ENGINEER OF ANY CONFLICT BEFORE ANY FURTHER WORK IS COMPLETED.
- UTILITIES ARE TO BE ADJUSTED BY UTILITY OWNER OR AS DIRECTED BY THE ENGINEER.
- SURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND IS TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IF SOIL OR SUBSURFACE CONDITIONS UNSUITABLE FOR CONSTRUCTION ARE ENCOUNTERED.
- ALL EXCAVATED SOILS DEEMED SUITABLE AS FILL MATERIAL AS DETERMINED BY THE ENGINEER SHALL BE UTILIZED ON SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE EXACT LOCATION OF DELIVERY ON SITE SHALL BE DETERMINED BY THE ENGINEER. ALL EXCAVATED SOILS DEEMED UNSUITABLE SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ITEMS IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT HIS OWN EXPENSE.
- CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
- IT SHOULD BE NOTED THAT THE OCCUPATIONAL SAFETY AND HEALTH ACT PROHIBITS THE OPERATING OF EQUIPMENT OR MACHINES CLOSER THAN TEN (10) FEET TO ENERGIZED ELECTRIC LINES RATES AT FIFTY KILOVOLTS OR BELOW. ALSO, NO EXCAVATION IS PERMITTED WITHIN FIVE (5) FEET OF POWER POLE FACILITIES.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
- ALL IRONS AND MONUMENTS (P, R, M, S) SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- ANY PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR WILL NOTIFY THE ENGINEER.
- WHEN REFERENCED TO, FDOT REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT EDITION.
- THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT WHICH IS NOW EXISTING.
- BACKFILL, GRADE AND SOD AS REQUIRED AROUND ALL NEW CONSTRUCTION AND ALL DEVELOPED LOTS TO PREVENT EROSION. SEED AND MULCH WILL ONLY BE ALLOWED TO RESTORE UNDEVELOPED LOTS AFFECTED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- SODDING TO BE USED AT LOCATIONS AS DIRECTED BY THE ENGINEER. SOD ALL DISTURBED AREAS UPON COMPLETION.
- ALL EXCESS CONSTRUCTION MATERIAL AND WASTE TO BE HAULED OFF-SITE AND DISPOSED OF PROPERLY AT CONTRACTOR'S EXPENSE.
- MAINTENANCE OF TRAFFIC SHALL BE ACCORDANCE WITH FDOT STANDARDS FOR TRAFFIC CONTROL THROUGH WORK ZONES AND MUTCD (PART VI).
- PROPERTY OWNERS AND BUSINESSES WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
- ALL MAILBOXES SHALL BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE U.S. POSTAL MAIL CARRIER.
- THE CONTRACTOR SHALL REMOVE, COVER OR OBLITERATE EXISTING ROADWAY SIGN AND PAVEMENT MARKINGS THAT CONFLICT WITH THE CONSTRUCTION TRAFFIC CONTROL PLANS.
- CONTRACTOR TO PROTECT ALL SPRINKLER HEADS NOT IN CONFLICT WITH DESIGN AND RELOCATE ALL THOSE WHICH ARE IN CONFLICT TO A LOCATION DETERMINED IN FIELD.
- SOD TWO (2) FEET MINIMUM ALONG SIDE PROPOSED EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY DRAINAGE MEASURES AS REQUIRED TO ADEQUATELY DRAIN THE PROJECT AND ANY TEMPORARILY TRAVELED ROADWAYS. TEMPORARY DRAINAGE DESIGN, CONSTRUCTION AND MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY; HOWEVER, ALL SUCH MEASURES MUST BE APPROVED BY THE ENGINEER.
- ALL ABANDONED UTILITIES (INCLUDING PIPES, CABLES AND STRUCTURES) FOUND IN THE RIGHT OF WAY AND NOT SHOWN ON THE PLANS, ARE TO BE REMOVED AND PROPERLY DISPOSED OF AT THE EXPENSE OF THE CONTRACTOR. THIS INCLUDES ALL EXOTIC PIPES LIKE ASBESTOS-CEMENT PIPE. COST TO BE INCLUDED IN CLEARING AND GRUBBING ITEM.
- DRIVEWAY LOCATIONS AND WIDTHS ARE APPROXIMATE AND ARE TO BE ADJUSTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- BENCHMARK DATUM IN NAVD 88.
- GRADE AND SOD SWALES TEN (10) FEET FROM PROPOSED DITCH BOTTOM INLETS AND MITERED END SECTIONS ON SIDE STREETS AS REQUIRED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN (L) (BASELINE) AND (C) (CENTERLINE) CONSTRUCTION THROUGHOUT THE PROJECT.
- ALL EXISTING SWALES SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE TO THE SWALE LINE SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR BID ITEMS.
- MAINTAIN A MINIMUM OF ONE (1) FOOT CLEARANCE BETWEEN POWER POLE AND EDGE OF SIDEWALK.
- WHEN ALL OTHER PERMANENT CONSTRUCTION IS COMPLETE, THE FINAL SURFACE COURSE SHALL BE PLACED.
- CONSTRUCTION OPERATIONS FOR PLACEMENT OF THE FINAL SURFACE COURSE SHALL BE LIMITED TO A DISTANCE, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR CAN COMPLETE IN ONE (1) DAY.
- THE CONTRACTOR SHALL IMPLEMENT TEMPORARY PAVEMENT MARKINGS UNTIL THE FINAL SURFACE COURSE HAS CURED (MINIMUM THIRTY (30) DAYS AFTER FINAL SURFACE COURSE PLACEMENT), ANY TEMPORARY PAINTED MARKINGS PLACED ON THE FINAL.
- PAVEMENT TRANSITION SHALL BE MADE IN ACCORDANCE WITH PAVEMENT TRANSITION DETAIL.
- ALL APPROVED PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO INDIAN RIVER COUNTY, ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT AND FDEP, SHALL BE MET BY CONTRACTOR PRIOR TO CERTIFICATION OF COMPLETION BY ENGINEER.

ROADWAY SPECIFICATIONS

GENERAL

IT IS INTENDED THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" MOST CURRENT EDITION BE USED WHERE APPLICABLE FOR VARIOUS WORK, AND THAT WHERE SUCH WORKING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THAT WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT.

IF WITHIN THAT PARTICULAR SECTION ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE A PART OF THE STANDARD SPECIFICATIONS ALSO.

THE CONTRACTOR SHALL GIVE THE ENGINEER **48 HOURS** NOTICE PRIOR TO REQUESTING INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK.

THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF TWO YEARS FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIALS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

GRADING

THE CONTRACTOR SHALL PERFORM ALL GRADING NECESSARY TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL SECTIONS.

ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS.

STAKING

CONSTRUCTION STAKING WILL BE PERFORMED BY THE CONTRACTOR.

STABILIZING

STABILIZED SUBGRADE SHALL BE CONSTRUCTED TO THE FLORIDA BEARING VALUE AS PER PLAN FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, AND IN ACCORDANCE WITH SECTION 160 OF THE STANDARD SPECIFICATIONS.

(TYPE C STABILIZATION). ALL STABILIZED AREAS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

BASE COURSE (SURFACE COURSE)

THE BASE SHALL BE CONSTRUCTED OF EITHER LIMEROCK MATERIAL OR CEMENTED COQUINA SHELL MATERIAL IN ACCORDANCE WITH SECTION 911 OF THE STANDARD SPECIFICATIONS.

LIMEROCK BASE AND CEMENTED COQUINA SHELL BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ROCK PIT CERTIFICATION FOR CEMENTED COQUINA SHELL MATERIAL. BASE SHALL BE COMPACTED BY AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. BASE SHALL BE APPROVED PRIOR TO PRIME COAT.

TESTING

THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED INDEPENDENT TESTING LABORATORY TO CONDUCT ALL REQUIRED TESTS ON SUBGRADE, BASE AND SURFACE COURSE MATERIALS. TEST RESULTS MUST BE SUBMITTED PRIOR TO ANY REQUEST FOR PAYMENT ON THE ABOVE ITEMS.

THE SCHEDULE FOR TESTING OF THE ROAD CONSTRUCTION SHALL BE AS FOLLOWS:

- SUBGRADE:
 - FLORIDA BEARING VALUE TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET, OR CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN SUBSOIL CONDITIONS.
 - DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET OR CLOSER AS MIGHT BE NECESSARY.
- BASE:
 - DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET OR CLOSER AS MIGHT BE NECESSARY.

ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 1 1/2 INCHES INSIDE THE LEFT EDGE, TO THE CENTER, TO A POINT 12 INCHES INSIDE THE RIGHT EDGE OF THE ITEM TESTED.

IF ANY TEST INDICATES THAT THE WORK DOES NOT MEET THE SPECIFICATIONS, THE SUBSTANDARD AREA SHALL BE REWORKED OR CORRECTED AND RETESTED, AT THE CONTRACTOR'S EXPENSE, UNTIL THE PROVISIONS OF THESE SPECIFICATIONS ARE MET.

ALL PASSING TESTS SHALL BE PAID FOR BY THE OWNER. ALL FAILING TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

CLEAN-UP

THE CONTRACTOR MUST PROVIDE CLEAN-UP OF EXCESS CONSTRUCTION MATERIAL UPON COMPLETION OF THE PROJECT. THE SITE MUST BE LEFT IN A NEAT, CLEAN, GRADED CONDITION.

CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

- OPEN ROAD CUTS REQUIRES PRIOR APPROVAL OF THE CITY, COUNTY, STATE OR ANY OTHER AGENCY WHICH MAY HAVE JURISDICTION.
- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.
- ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL RECEIVE SOLID SOD.
- STREET RESTORATION TO BE DONE AS PER INDIAN RIVER COUNTY STANDARDS.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITIES REGARDING CLOSING OR RESTRICTING THE USE OF PUBLIC STREETS OR HIGHWAYS.
- TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.

CERTIFICATION

INSPECTION

MINIMUM CONSTRUCTION INSPECTION CHECKPOINTS

THE ENGINEER SHALL BE NOTIFIED:

- PRIOR TO ANY MAJOR DEVIATION FROM THE APPROVED PLANS.
- PRIOR TO BACKFILLING ANY UTILITY TRENCHES.
- UPON COMPLETION OF SUBGRADE GRADING AND COMPACTION.
- UPON BEGINNING OF SPREADING OF ROCK BASE MATERIAL.
- UPON COMPLETION OF GRADING AND COMPACTION OF THE BASE MATERIAL AND PRIOR TO PRIMING.
- IMMEDIATELY PRIOR TO AND UPON APPLICATION OF A C.S.C. OR SURFACE COURSE.
- UPON COMPLETION OF CONSTRUCTION.

RECORD DRAWINGS

CONTRACTOR SHALL KEEP AND MAINTAIN RECORD DRAWINGS ON THE PROJECT SITE AT ALL TIMES WHICH SHALL BE ANNOTATED BY THE CONTRACTOR DEPICTING ANY CHANGES MADE IN THE FIELD WHICH DIFFER FROM THE CONTRACT DRAWINGS. RECORD DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, INVERT AND TOP ELEVATIONS OF CULVERTS AND INLET STRUCTURES. CONTRACTOR SHALL SUBMIT COMPLETE AND FINAL RECORD DRAWINGS TO ENGINEER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL INSPECTION AND FINAL PAYMENT.

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
- ALL WORK SHALL BE IN WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED TO BEGIN WORK.
- ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE INDIAN RIVER COUNTY, ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT, FDEP AND THESE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION OPERATIONS.
- NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONTRACTOR SHALL SUPPLY DENSITY TESTS TO ENGINEER ON ALL SUB-GRADE AND BASE. TESTS SHALL BE PREPARED PER AASHTO T-180 METHOD.
- SLOPE GRADES FROM ELEVATIONS SHOWN TO EXISTING GRADE AT PROPERTY LINE, MAXIMUM SLOPE 3:1.
- ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR ANY INSPECTION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH M.U.T.C.D. STANDARDS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- EROSION CONTROL FENCING MUST BE IN PLACE PRIOR TO GRADING.
- THIS PLAN CONTEMPLATES ACCESS CONNECTIONS TO ADJACENT ROADS AS SHOWN.
- ALL SIGNS SHALL BE PER M.U.T.C.D. STANDARDS.
- ALL PAVEMENT MARKINGS, EXCEPT PARKING STALL STRIPING, SHALL BE THERMOPLASTIC PER INDIAN RIVER COUNTY REQUIREMENTS.
- THE USES PROPOSED AS PART OF THIS PLAN DO NOT REQUIRE A SUBMITTAL OF A RISK MANAGEMENT PLAN PURSUANT TO U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS AND SHALL NOT EXCEED THE EPA'S RMP THRESHOLD QUANTITIES OF LISTED SUBSTANCES.
- WATER FOR FIRE FIGHTING PURPOSES SHALL BE INDICATED WITH A BLUE ROADWAY REFLECTOR, PLACE ONE FOOT OFF OF THE CENTERLINE OF THE ROAD FACING THE FIRE HYDRANT. THIS INCLUDES NEW AND EXISTING SOURCES.
- REGARDLESS OF PRIVATE OR PUBLIC DEDICATIONS, THERE SHALL BE NO UTILITY CONNECTIONS, METER BOXES OR VALVE BOXES IN EXISTING OR PROPOSED SIDEWALK OR DRIVEWAY AREAS.
- CONTRACTOR SHALL ADJUST INLET/STRUCTURE OR CONNECTION LOCATION AS REQUIRED TO ENSURE PROPOSED STRUCTURES AND PIPES ARE IN PROPER ALIGNMENT AND MATCH SLOPE OF EXISTING PIPES OR CONNECTIONS.
- ANY STATE AND FEDERAL PERMITS THAT MAY BE REQUIRED AS A RESULT OF LAND CLEARING AND LANDSCAPING ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE TO PROTECT AND/OR REPLACE ALL SURVEY MONUMENTATION BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA.
- ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FDOT STANDARD INDEX 711-001, FY 2021-22 EDITION.
- COMMERCIAL/MULTI-FAMILY BUILDINGS SHALL POST A MINIMUM 6 INCH NUMERICAL ADDRESS.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL BE REQUIRED ON EXISTING/PROPOSED DRIVEWAYS THAT CONNECT TO THE COUNTY RIGHT-OF-WAY (ROW) AND PROPOSED PAVEMENT MARKINGS WITHIN 25' OF THE COUNTY ROW.

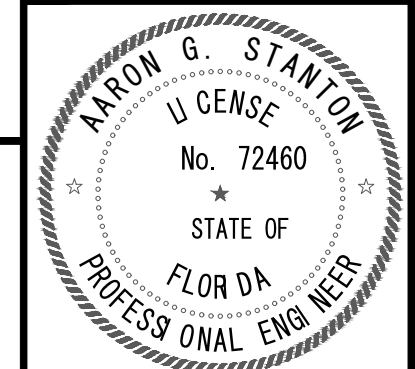
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4	PARKS DEPT. REVISIONS	AS	JOB	1/7/2022					
3	ADD SOD QUANTITIES	DRAWN		10/19/2021					
2	RCDDUS COMMENTS	DATE	JUNE 2021	9/23/2021					
1	IRC COMMENTS	CHECKED	TH	8/12/2021					
		DATE ISSUED		6/11/2021					

MBV ENGINEERING, INC.
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GENERAL NOTES

HALLSTROM FARMSTEAD
 CONSERVATION AREA

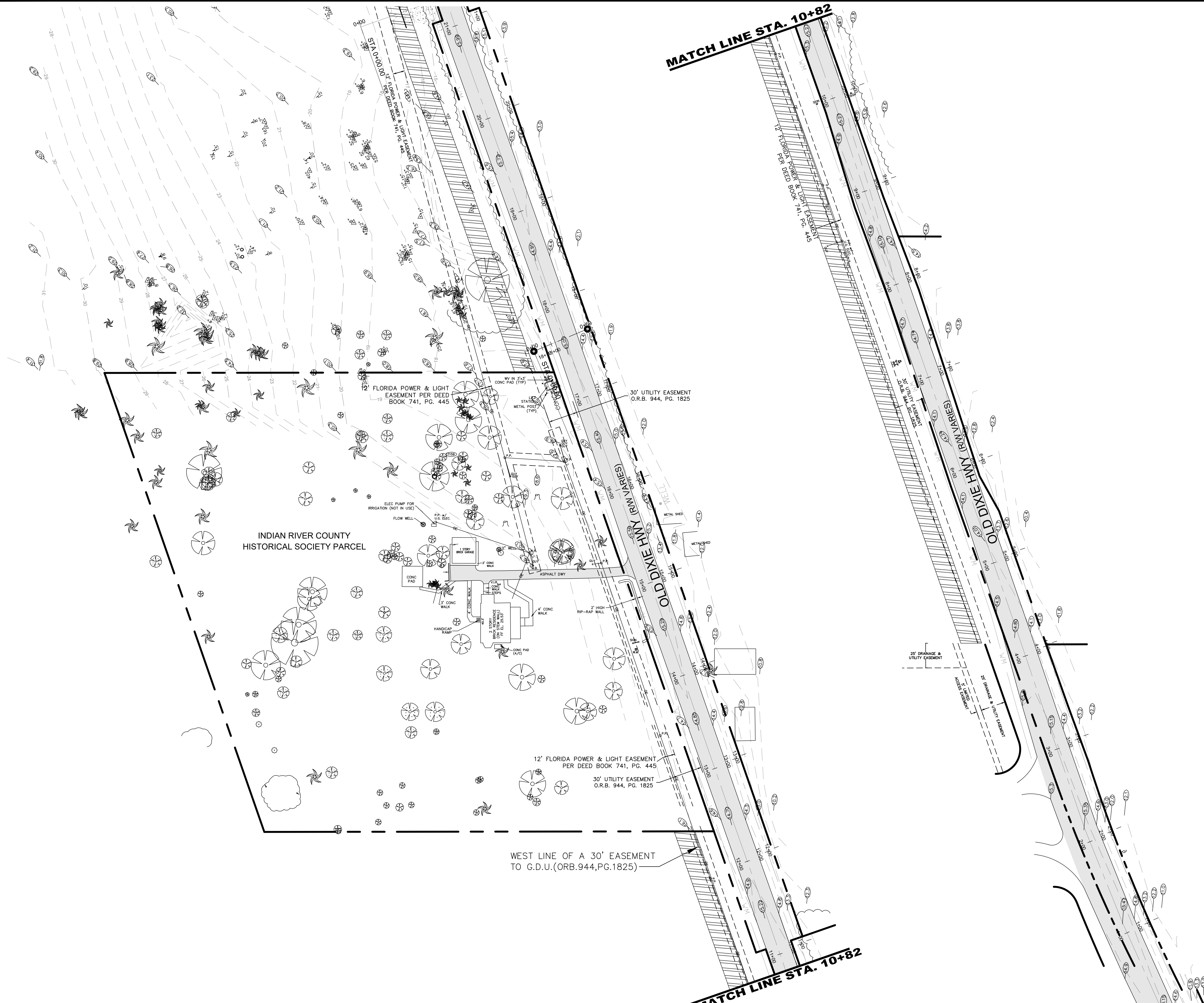
FLORIDA
 INDIAN RIVER COUNTY



AARON G. STANTON
 FL. P.E. #72460

SHEET
C2





LEGAL DESCRIPTION
 ALL THAT PORTION OF NE 1/4 OF NW 1/4 OF SECTION 31-30-40, LYING WEST OF R/W FOR OLD DIXIE HWY & LESS 5 AC PCL CONVEYED TO IRC HISTORICAL SOCIETY BY WD REC IN OR. BK. 1341 PG 776, TOGETHER WITH N 1/2 OF NE 1/4 OF NW 1/4.

VERO BEACH HIGHLANDS UNIT 1 REPLAT TRACT A PBI 7-40.

ALL THAT PORTION OF SE 1/4 OF SECTION 30-33-40, LYING WEST OF THE FECCR R/W, LESS & EXCEPT R/W FOR OLD DIXIE HWY.

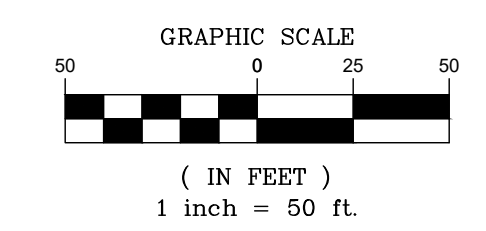
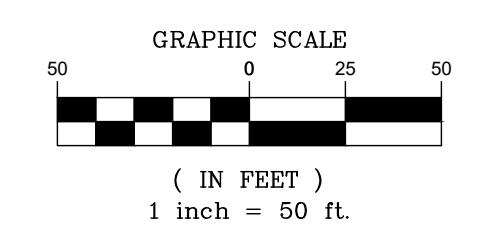
- SURVEY NOTES:**
- LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY AND/OR EASEMENTS OR RECORD.
 - THE SURVEY INFORMATION ON THIS PLAN WAS PROVIDED BY HAYHURST LAND SURVEYING, INC. ON 2/21/2021.
 - LEGAL DESCRIPTION SUPPLIED BY CLIENT.
 - SO. FT. OF HOUSE (IF SHOWN) SUPPLIED BY CLIENT.
 - NO STRUCTURES OR UTILITIES THAT ARE BENEATH THE SURFACE HAVE BEEN LOCATED.
 - ALL SET CAPS LABELED PSM WEH 4416 ARE SUPPORTED WITH AN 18" LONG #5 REBAR.
 - ALL FOUND CAPS ARE A 5/8" ROD WITH A CAP AS LABELED ON SURVEY.
 - ALL LOT DIMENSIONS ARE PLAT AND MEASURED UNLESS OTHERWISE NOTED.
 - BEARING BASE ON ORIGINAL IRC BM: NAVD 88.
 - ELEVATIONS (IF SHOWN) HEREON ARE BASED ON N.A.V.D. (1988), UNLESS OTHERWISE NOTED.

LEGEND OF SURVEY ABBREVIATIONS:

A	DELTA ANGLE	L	LENGTH		10" EXISTING PALM TREES
A/C	AIR CONDITIONER	M	MEASURE		12" EXISTING PINE TREES
AVE.	AVENUE	M.H.	MANHOLE		10" EXISTING OAK TREES
AVG.	AVERAGE	M.H.W.	MEAN HIGH WATER LEVEL		EXISTING GRADE
B.B.	BEARING BASE	MON.	MONUMENT		
B.M.	BENCH MARK	N&D	NAIL & DISK		
BLK.	BLOCK	N	NORTH		
BLVD.	BOULEVARD	No.	NUMBER		
C.	CURVE	N.I.C.	NOT INCLUDED		
C.B.	CHORD BEARING	O.H.W.	OVERHEAD WIRES		
C.B.S.	CONCRETE BLOCK	PG.	PAGE		
C.D.	CHORD DISTANCE	P.K.	PARKER KALON NAIL		
C	CENTERLINE	P	PLAT		
C.L.F.	CHAIN LINK FENCE	P.C.	POINT OF CURVATURE		
C.M.	CONCRETE MONUMENT	P.C.P.	PERMANENT CONTROL POINT		
CONC.	CONCRETE	P.I.	POINT OF INTERSECTION		
C.O.	CLEAN OUT	P.L.	PROPERTY LINE		
C.R.	COUNTY ROAD	P.M.	POWER METER		
CT.	COURT	P.O.B.	POINT OF BEGINNING		
C/S	CONCRETE SLAB	P.O.C.	POINT OF COMMENCEMENT		
COR.	CORNER	PRC	POINT OF REVERSE CURVE		
D.	DEED	P.R.M.	PERMANENT REFERENCE MONUMENT		
D.B.	DEED BOOK	PO	POWER POLE		
DEP.	DEPARTMENT OF	RAD.	RADIAL OR RADIUS		
DIST.	DISTANCE	R/W	RIGHT OF WAY		
DNR	DEPARTMENT OF	S.	SOUTH		
DR.	DRIVE	SEC.	SECTION		
E.	EAST	SO.FT.	SQUARE FEET		
ESMT.	EASEMENT	S.R.	STATE ROAD		
ELEC.	ELECTRICAL	ST.	STREET		
EL.	ELEVATION	STA.	STATION		
E.O.W.	EDGE OF WATER	STRUC.	STRUCTURE		
F.F.	FIRST FLOOR	SUB.	SUBDIVISION		
FND.	FOUND	T.B.M.	TEMPORARY BENCH MARK		
F.P.L.	FIRE HYDRANT	TELE.	TELEPHONE		
F.P.W.	FLORIDA POWER & LIGHT	T.O.B.	TOP OF BANK		
I.P.	IRON PIPE	TOPO.	TOPOGRAPHICAL		
I.R.	IRON ROD	TR.	TRACT		
INV.	INVERT	TWSP.	TOWNSHIP		
F/N	FOUND NAIL	U.R.	UNREADABLE		
GOV'T	GOVERNMENT	U & D	UTILITY & DRAINAGE		
GR.	GRADE	W.	WEST		
GND.	GROUND	WM	WATER METER		
HORZ.	HORIZONTAL	WV	WATER VALVES		
H.W.	HEAD WALL		COMBINED LOTS		

EXISTING CONDITIONS PLAN (NORTH)

EXISTING CONDITIONS PLAN (SOUTH)



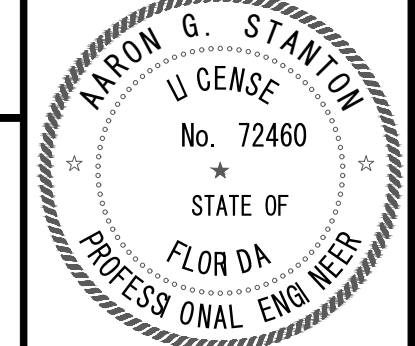
ALL ELEVATIONS IN NAVD 88

NO.	DATE	REVISIONS
8	6/11/2021	DATE ISSUED
7		CHECKED
6		DATE
5	JUNE 2021	JOB
4		AS
3		DESIGNED
2		DRAWN
1		20-0240

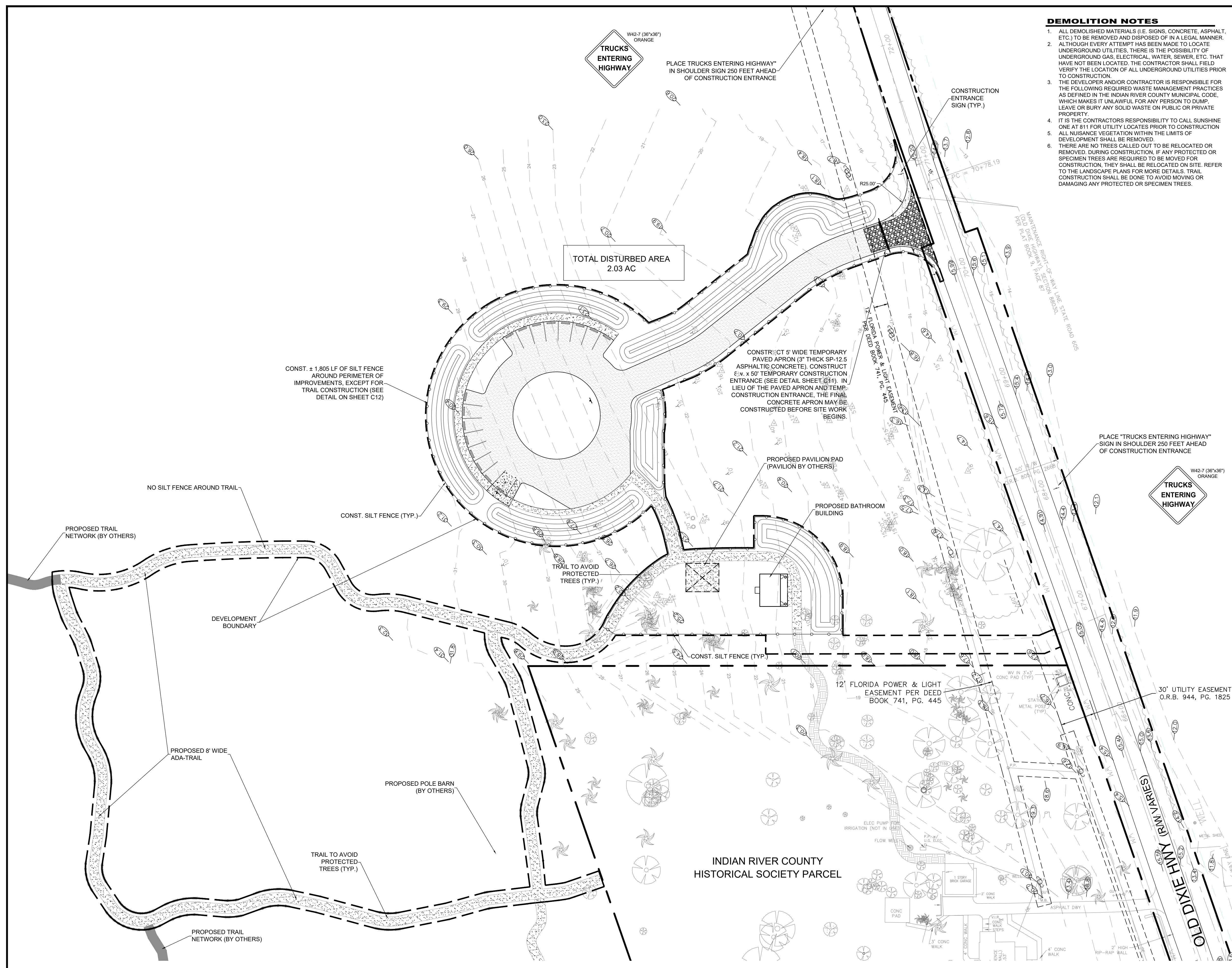
MBV ENGINEERING, INC.
 ENGINEERING & ASSOCIATES
 MOHA BOWLES VILLALBAZAR & ASSOCIATES
 ENGINEERING & ASSOCIATES
 1835 W. BEACH, SUITE 201, WEST PALM BEACH, FL 33411
 TEL: (561) 963-1510
 FAX: (561) 963-3817

EXISTING CONDITIONS PLAN

HALLSTROM FARMSTEAD CONSERVATION AREA



AARON G. STANTON
 FL. P.E. #72460
 SHEET
C3
 20-0240



DEMOLITION NOTES

1. ALL DEMOLISHED MATERIALS (I.E. SIGNS, CONCRETE, ASPHALT, ETC.) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
2. ALTHOUGH EVERY ATTEMPT HAS BEEN MADE TO LOCATE UNDERGROUND UTILITIES, THERE IS THE POSSIBILITY OF UNDERGROUND GAS, ELECTRICAL, WATER, SEWER, ETC. THAT HAVE NOT BEEN LOCATED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE INDIAN RIVER COUNTY MUNICIPAL CODE, WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
5. ALL NUISANCE VEGETATION WITHIN THE LIMITS OF DEVELOPMENT SHALL BE REMOVED.
6. THERE ARE NO TREES CALLED OUT TO BE RELOCATED OR REMOVED, DURING CONSTRUCTION, IF ANY PROTECTED OR SPECIMEN TREES ARE REQUIRED TO BE MOVED FOR CONSTRUCTION, THEY SHALL BE RELOCATED ON SITE. REFER TO THE LANDSCAPE PLANS FOR MORE DETAILS. TRAIL CONSTRUCTION SHALL BE DONE TO AVOID MOVING OR DAMAGING ANY PROTECTED OR SPECIMEN TREES.

EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FDEP AND INDIAN RIVER COUNTY EROSION AND SEDIMENT CONTROL REGULATIONS.
1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY (7) SEVEN DAYS OR AFTER EVERY 0.5 INCH RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION, IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.
 6. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCING WHEN IT BECOMES 6 INCHES DEEP AT THE FENCE. THE FENCING WILL BE PREPARED AS NECESSARY TO MAINTAIN A SUFFICIENT BARRIER.
 7. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
 8. CONSTRUCTION DRIVES SHALL SLOPE AWAY FROM THE ROADWAY AT A MINIMUM SLOPE OF 2% TO A DISTANCE OF NOT LESS THAN 10 FT. FROM THE EDGE OF PAVEMENT. THE MAXIMUM WIDTH OF THE DRIVE SHALL BE 30 FT. WITH #57 STONE, 6" THICK. SIGNS SHALL BE PLACED IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS TO WARN APPROACHING DRIVERS AND PEDESTRIANS.
 9. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
 10. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
 11. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
 12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
 13. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASINS, FILTER BAGS, ETC.)
 15. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - A. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
 - B. WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
 - C. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, AND
 - D. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
 16. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
 17. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT (SCR100 AND/OR SCS WATER QUALITY STANDARDS), IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
 18. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES.
 19. ALL DISTURBED AREAS NOT TO BE LANDSCAPED MUST BE GRASSED.
 20. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
 21. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
 22. REFER TO DETAILS ON SHEET C11.

LEGEND

	EXISTING PAVEMENT		PROPOSED STABILIZED PARKING
	EXISTING CONCRETE		PROPOSED CONCRETE
	TO BE DEMOLISHED		PROPOSED ADA-WALKING TRAIL
	EXISTING PALM TREES		PROPOSED WALKING TRAIL (BY OTHERS)
	EXISTING PINE TREES		PROPOSED MARL PATH (BY OTHERS)
	EXISTING OAK TREES		DEVELOPMENT BOUNDARY
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE		
	PROPOSED SILT FENCE		
	EXISTING GRADE		
	PROPERTY BOUNDARY / RIGHT OF WAY		

JOB NO.	DESIGNED	AS	DATE	ISSUED
20-0240	AS	JOB	17/2022	6/11/2021
	DRAWN	JOB	10/19/2021	
	DATE	DATE	9/23/2021	
	CHECKED	TH	8/12/2021	
	DATE	DATE	6/11/2021	

MBV ENGINEERING, INC.
 ENGINEERING & ASSOCIATES
 MOA, BONNIES VILLAZAR & ASSOCIATES
 ENGINEERING CA #3728
 1850 S. 20TH STREET
 MIAMI BEACH, FL 33136
 TEL: (305) 351-1510
 FAX: (305) 351-1511
 FT. PIERCE, FL - PH: (772) 468-9055

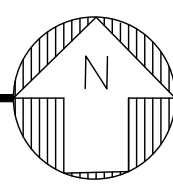
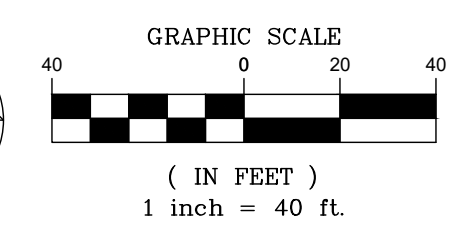
EROSION CONTROL AND DEMOLITION PLAN

HALLSTROM FARMSTEAD CONSERVATION AREA

AARON G. STANTON
 FL. P.E. #72460



EROSION CONTROL AND DEMOLITION PLAN





SITE INFORMATION

SITE ADDRESS

1701 OLD DIXIE HIGHWAY, SW
 VERO BEACH, FLORIDA 32962
 RESTROOMS: BLDG. A
 24' x 24' PAVILION: BLDG. B
 30' x 30' PAVILION: BLDG. C

ARCHITECT

EDB ARCHITECTS & ASSOCIATES, P.A.
 65 ROYAL PALM POINTE, SUITE D
 VERO BEACH, FLORIDA 32960
 PHONE (772) 569-4320

OWNER/APPLICANT

INDIAN RIVER COUNTY PARKS DIVISION
 5500 77TH STREET
 VERO BEACH, FLORIDA 32967
 PHONE (772) 226-1883

SURVEYOR

HAYHURST LAND SURVEYING, INC.
 445 9TH STREET S.W. UNIT 7
 VERO BEACH, FLORIDA 32962
 PHONE (772) 569-6880

ENGINEER

MBV ENGINEERING, INC.
 1835 20TH STREET
 VERO BEACH, FLORIDA 32960
 PHONE (772) 569-0035

TAX PARCEL I.D. NUMBER(S)

33-40-31-00000-1000-00003.3.33-40-31-00004-0001-00001.0 & 33-40-30-00000-5000-00009.1

PROJECT DESCRIPTION

CONSTRUCTION OF WALKING TRAILS, PARKING, BATHROOM, AND PAVILION PAD, WITH ASSOCIATED PARKING, STORMWATER MANAGEMENT AREAS AND UTILITIES, ON CONSERVATION LAND. THE DRIVEWAY, PARKING AND ADA-ACCESSIBLE TRAILS ARE TO BE CONSTRUCTED OF SEMI-PERVIOUS MATERIAL. THE STORMWATER IS TO BE DRY RETENTION SWALES AND PONDS. THE UTILITIES WILL INCLUDE WATER AND SEWER SERVICE FOR THE BATHROOM BUILDING. THE SEWER SERVICE SHALL BE VIA GRINDER STATION WITH PRESSURE CONNECTION TO THE EXISTING FORCEMAIN, LOCATED APPROXIMATELY 2,000 LINEAR FEET SOUTH ON THE EAST SIDE OF OLD DIXIE HWY.

ZONING

CON-1

LAND USE

C-1

BUILDING DATA	REQUIRED	PROPOSED
MAXIMUM DENSITY	---	---
MINIMUM LOT SIZE	---	---
MINIMUM LOT WIDTH	---	---
BUILDING SETBACKS		
FRONT (EAST)	50'	61.08'
SIDE (NORTH)	50'	1,348.20'
SIDE (SOUTH)	50'	50.27'
REAR (WEST)	50'	1,385.08'
MAXIMUM BUILDING HEIGHT	35'	94'
MAXIMUM LOT COVERAGE	---	---
MAXIMUM OPEN SPACE	---	---

EXISTING SITE DATA

TOTAL SITE AREA	= 3,859,852 SF	= 88.61 Ac	= 100.00 %
EXISTING BUILDING AREA	= 0 SF	= 0.00 Ac	= 0.00 %
EXISTING PAVEMENT AND CONCRETE AREA	= 0 SF	= 0.00 Ac	= 0.00 %
TOTAL IMPERVIOUS AREA	= 0 SF	= 0.00 Ac	= 0.00 %
TOTAL OPEN AREA	= 3,859,852 SF	= 88.61 Ac	= 100.00 %

PROPOSED SITE DATA

TOTAL SITE AREA	= 3,859,852 SF	= 88.61 Ac	= 100.00 %
DEVELOPED AREA	= 88,574 SF	= 2.03 Ac	= 2.29 %
EXISTING BUILDING AREA	= 0 SF	= 0.00 Ac	= 0.00 %
EXISTING PAVEMENT AND CONCRETE AREA	= 1,228 SF	= 0.03 Ac	= 0.03 %
PROPOSED BUILDING AREA	= 1,852 SF	= 0.04 Ac	= 0.05 %
PROPOSED HANDICAP STALL	= 18,270 SF	= 0.42 Ac	= 0.47 %
70% IMPERVIOUS AREA	= 12,780 SF	= 0.29 Ac	= 0.33 %
PROPOSED STABILIZED TRAIL	= 16,491 SF	= 0.38 Ac	= 0.43 %
70% IMPERVIOUS AREA	= 11,544 SF	= 0.26 Ac	= 0.30 %
TOTAL IMPERVIOUS AREA	= 27,411 SF	= 0.63 Ac	= 0.71 %
TOTAL OPEN AREA	= 3,832,441 SF	= 87.98 Ac	= 99.29 %
NET NEW IMPERVIOUS AREA	= 27,411 SF	= 0.63 Ac	= 0.71 %

PERMITS REQUIRED

- INDIAN RIVER COUNTY MAJOR SITE PLAN
- INDIAN RIVER COUNTY SPECIAL EXCEPTION USE APPROVAL
- INDIAN RIVER COUNTY CONDITIONAL & FINAL CONCURRENCY
- INDIAN RIVER COUNTY LAND CLEARING
- INDIAN RIVER COUNTY TREE REMOVAL
- INDIAN RIVER COUNTY STORMWATER
- INDIAN RIVER COUNTY RIGHT-OF-WAY
- INDIAN RIVER COUNTY UTILITIES CONSTRUCTION PERMIT
- INDIAN RIVER COUNTY FIRE DEPARTMENT APPROVAL
- FDEP DOMESTIC WASTEWATER
- FDEP NPDES NOI
- SRWMD 10-2 SELF CERTIFICATION

PARKING REQUIREMENTS

PARKING REQUIRED: PUBLIC PARKING = 2 SP / ACRE OF OPEN SPACE GENERATING DEMAND
 ADA PARKING REQUIRED: 1 SPACE UP TO 25 PARKING SPACES
 PARKING PROVIDED: 16 SPACES, INCLUDING 1 ADA SPACE

TRIP GENERATION

PER ITE, 10th ADDITION
 (411) PUBLIC PARK
 88.61 ACRES x 0.78 TRIPS/AC = 69 AVERAGE DAILY TRIPS

DESIGN SPEED

DESIGN: 45 MPH
 POSTED: 40 MPH

FLOOD ZONE

THE SUBJECT PROPERTY LIES IN FLOOD ZONE 'AE' (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - BASE ELEVATION DETERMINED) AND UNSHADE FLOOD ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), AS SCALED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS, No. 12061C0359H AND 12061C0378H, EFFECTIVE DECEMBER 4, 2012.

CONSTRUCTION SCHEDULE

CONSTRUCTION START: OCTOBER 2021
 CONSTRUCTION END: APRIL 2022

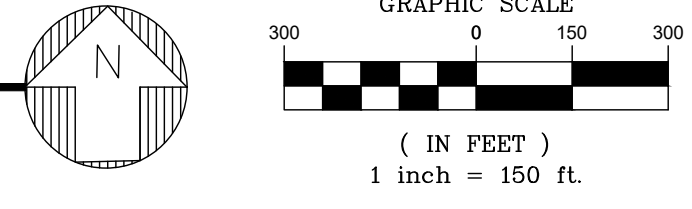
LEGAL DESCRIPTION

ALL THAT PORTION OF NE 1/4 OF NW 1/4 OF SECTION 31-30-40, LYING WEST OF R/W FOR OLD DIXIE HWY & LESS 5 AC PCL CONVEYED TO IRC HISTORICAL SOCIETY BY WD REC IN OR. BK. 1341 PG 776. TOGETHER WITH N 1/2 OF NE 1/4 OF NW 1/4.

VERO BEACH HIGHLANDS UNIT 1 REPLAT TRACT A PBI 7-40.

ALL THAT PORTION OF SE 1/4 OF SECTION 30-33-40, LYING WEST OF THE FECRR R/W, LESS & EXCEPT R/W FOR OLD DIXIE HWY.

OVERALL SITE PLAN



SITE LEGEND

- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED STABILIZED PARKING
- PROPOSED ADA-WALKING TRAIL
- PROPOSED WALKING TRAIL (BY OTHERS)
- PROPOSED MARL PATH (BY OTHERS)
- DEVELOPMENT BOUNDARY



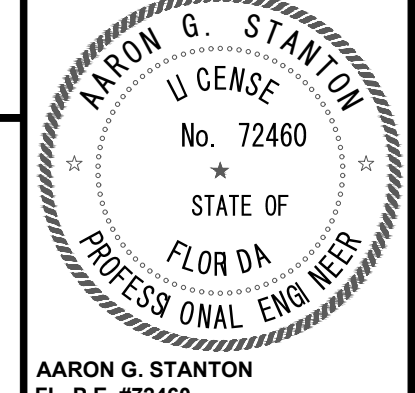
ALL ELEVATIONS IN NAVD 88

JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	TH	DATE ISSUED
20-0240	AS	JIB	JUNE 2021			6/11/2021
8						
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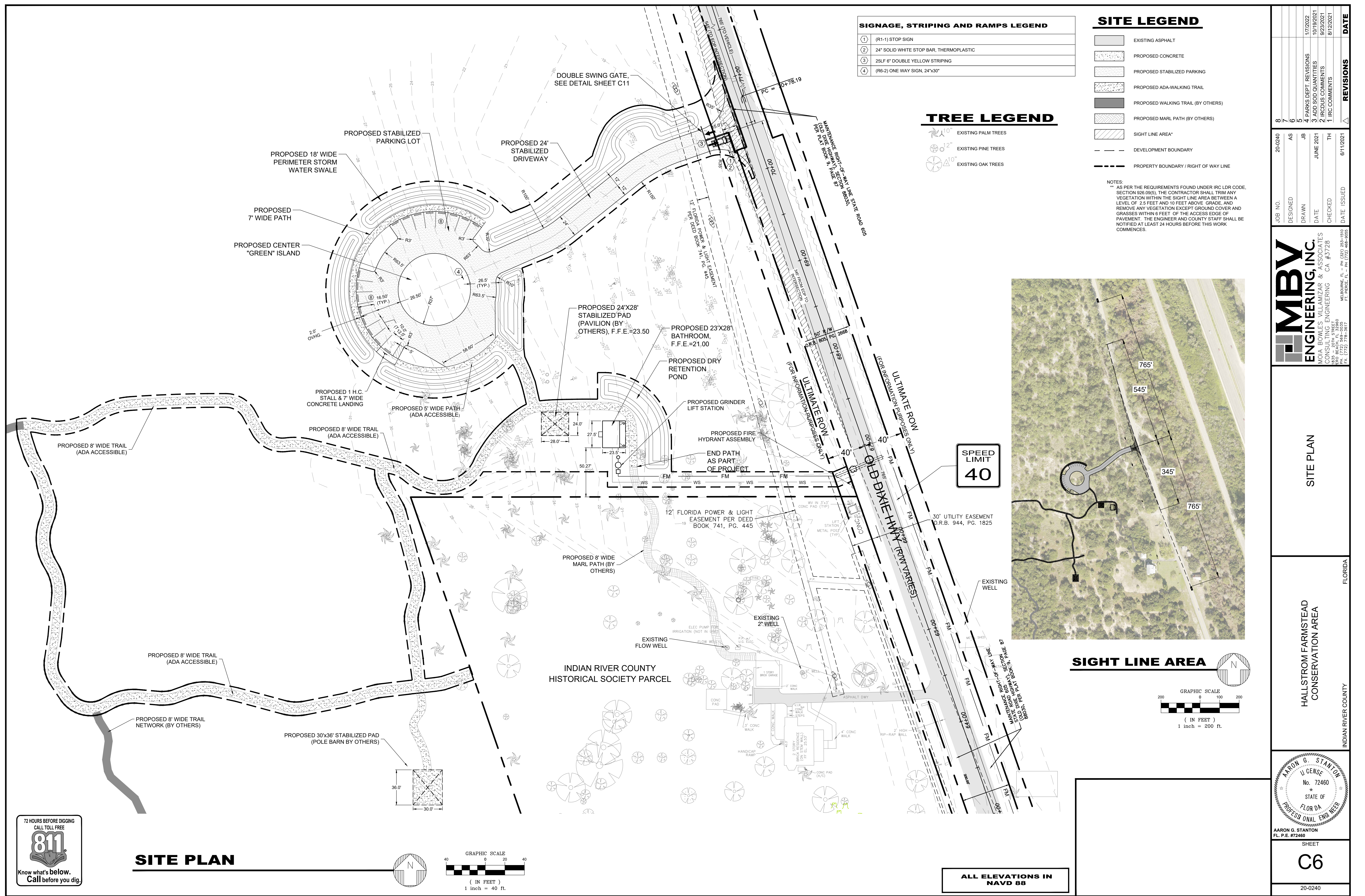
MBV ENGINEERING, INC.
 MOA, BONNIE VILLAMIZAR & ASSOCIATES
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 1835 20TH STREET
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OVERALL SITE PLAN

HALLSTROM FARMSTEAD CONSERVATION AREA



AARON G. STANTON
 FL. P. E. #72460
 SHEET
C5
 20-0240



SIGNAGE, STRIPING AND RAMPS LEGEND

①	(R1-1) STOP SIGN
②	24" SOLID WHITE STOP BAR, THERMOPLASTIC
③	25LF 6" DOUBLE YELLOW STRIPING
④	(R6-2) ONE WAY SIGN, 24"x30"

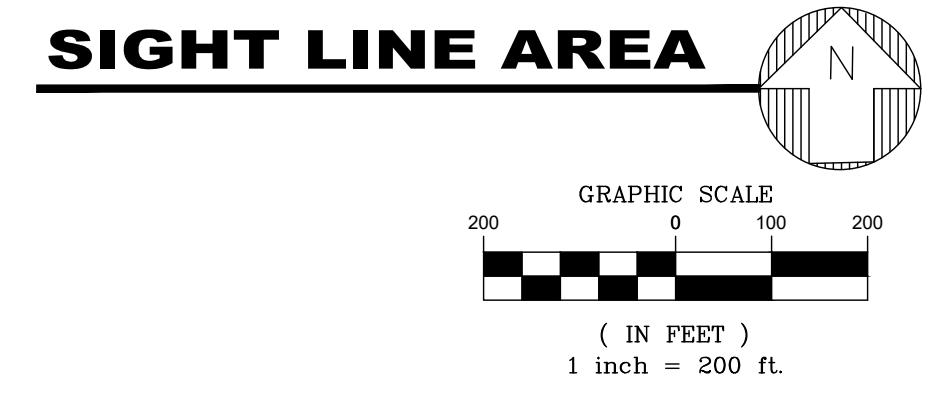
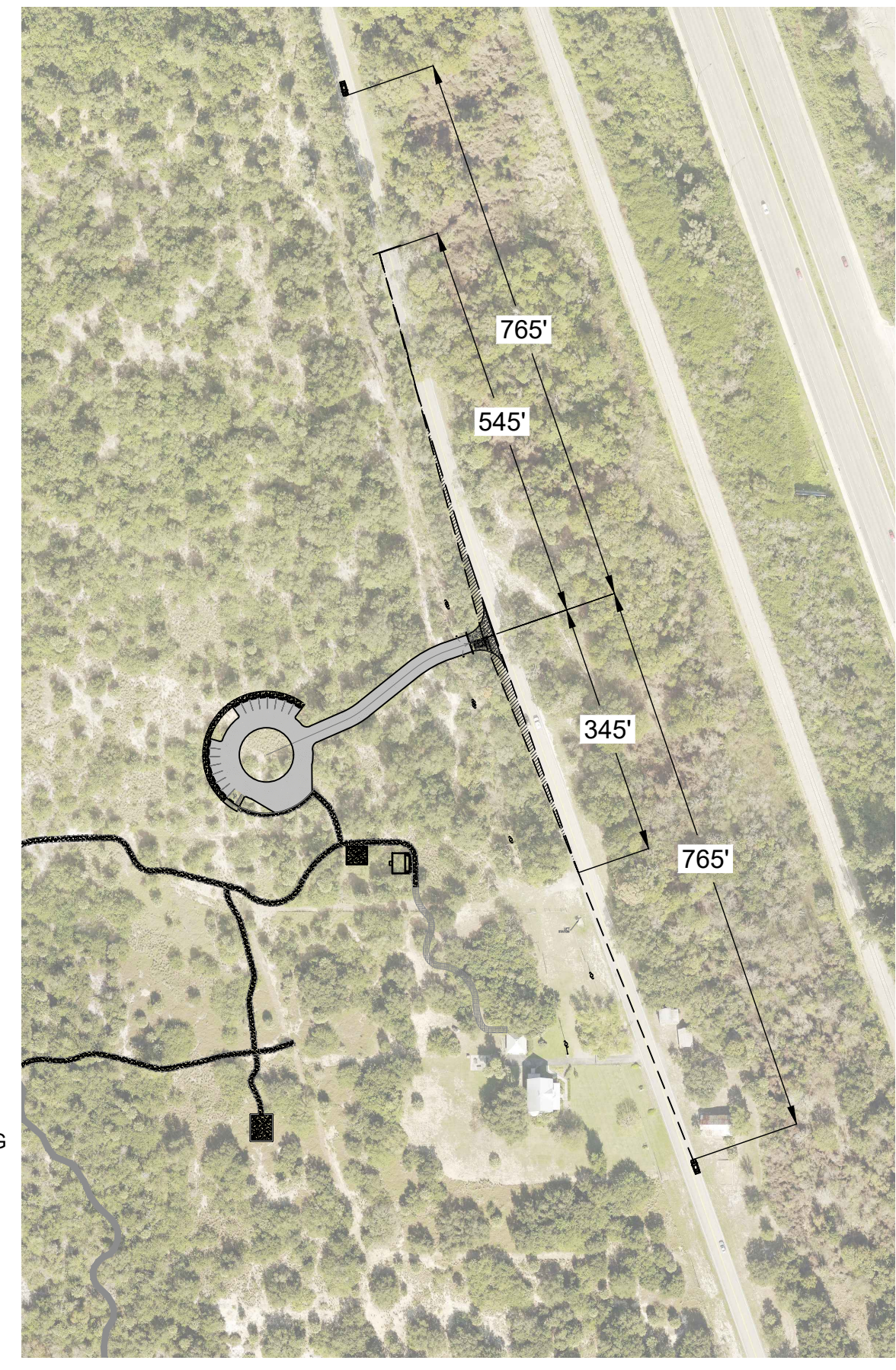
SITE LEGEND

[Pattern]	EXISTING ASPHALT
[Pattern]	PROPOSED CONCRETE
[Pattern]	PROPOSED STABILIZED PARKING
[Pattern]	PROPOSED ADA-WALKING TRAIL
[Pattern]	PROPOSED WALKING TRAIL (BY OTHERS)
[Pattern]	PROPOSED MARL PATH (BY OTHERS)
[Pattern]	SIGHT LINE AREA*
[Line]	DEVELOPMENT BOUNDARY
[Line]	PROPERTY BOUNDARY / RIGHT OF WAY LINE

TREE LEGEND

[Symbol]	EXISTING PALM TREES
[Symbol]	EXISTING PINE TREES
[Symbol]	EXISTING OAK TREES

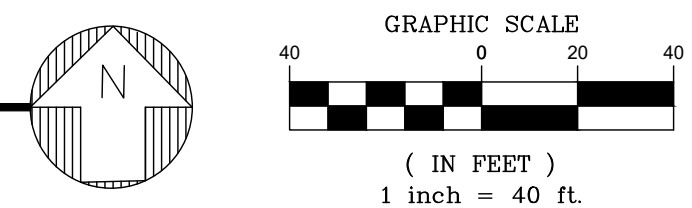
NOTES:
 * AS PER THE REQUIREMENTS FOUND UNDER IRC LDR CODE, SECTION 926.09(5), THE CONTRACTOR SHALL TRIM ANY VEGETATION WITHIN THE SIGHT LINE AREA BETWEEN A LEVEL OF 2.5 FEET AND 10 FEET ABOVE GRADE, AND REMOVE ANY VEGETATION EXCEPT GROUND COVER AND GRASSES WITHIN 6 FEET OF THE ACCESS EDGE OF PAVEMENT. THE ENGINEER AND COUNTY STAFF SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE THIS WORK COMMENCES.



SPEED LIMIT 40



SITE PLAN



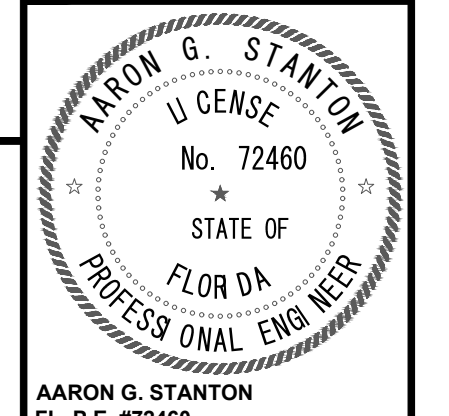
ALL ELEVATIONS IN NAVD 88

JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	DATE ISSUED
20-0240	AS	JIB	JUNE 2021	TH	6/11/2021

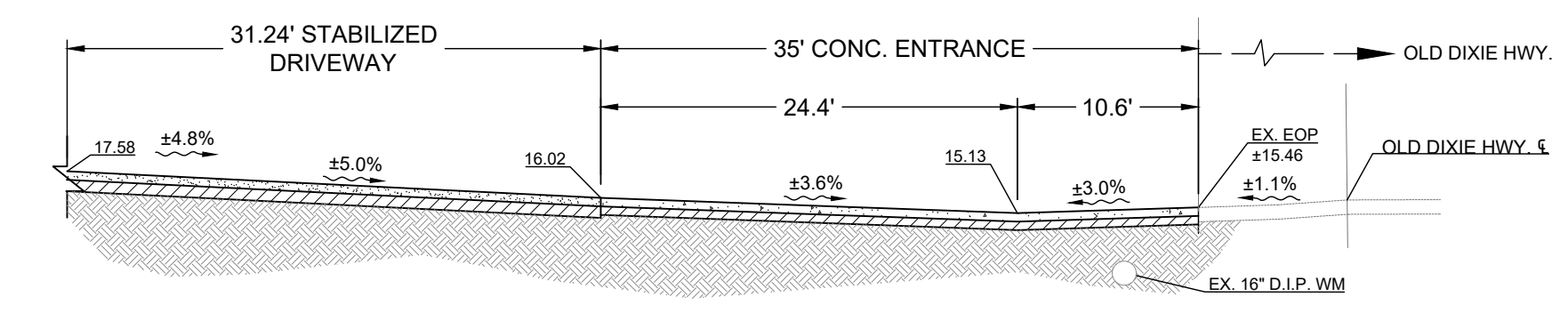
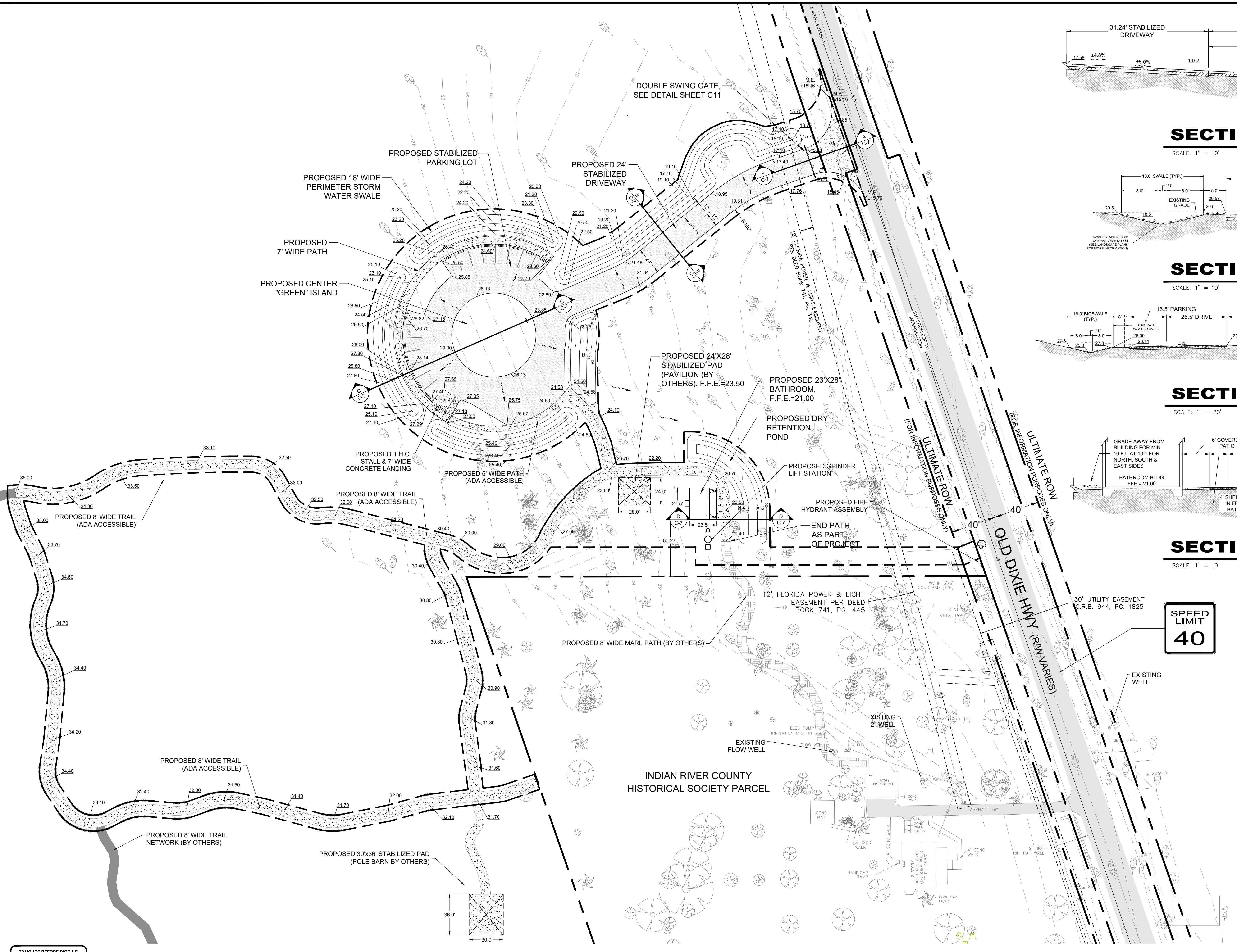
MBV ENGINEERING, INC.
 MOHA BOWLES VILLAMIZAR & ASSOCIATES
 ENGINEERING CA #57128
 1835 S. 20TH STREET
 BOCA RATON, FL 33480
 MIAMI, FL - PH (305) 953-1510
 FT. PIERCE, FL - PH (772) 468-9025

SITE PLAN

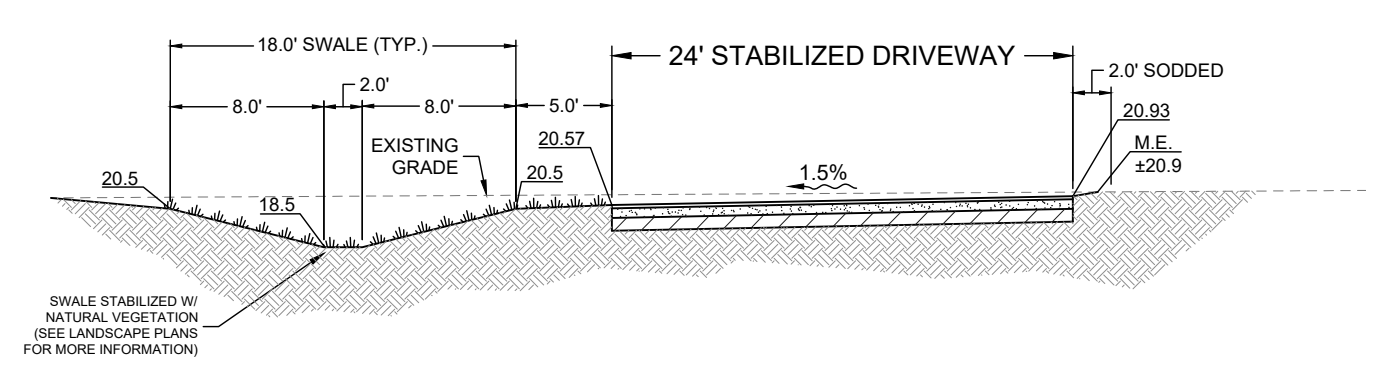
HALLSTROM FARMSTEAD
 CONSERVATION AREA
 INDIAN RIVER COUNTY, FLORIDA



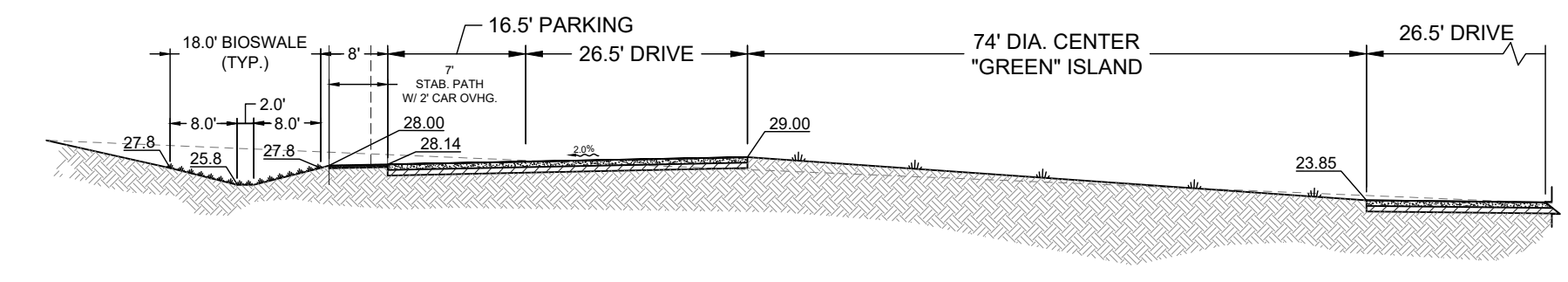
AARON G. STANTON
 FL. P.E. #72460
 SHEET
C6
 20-0240



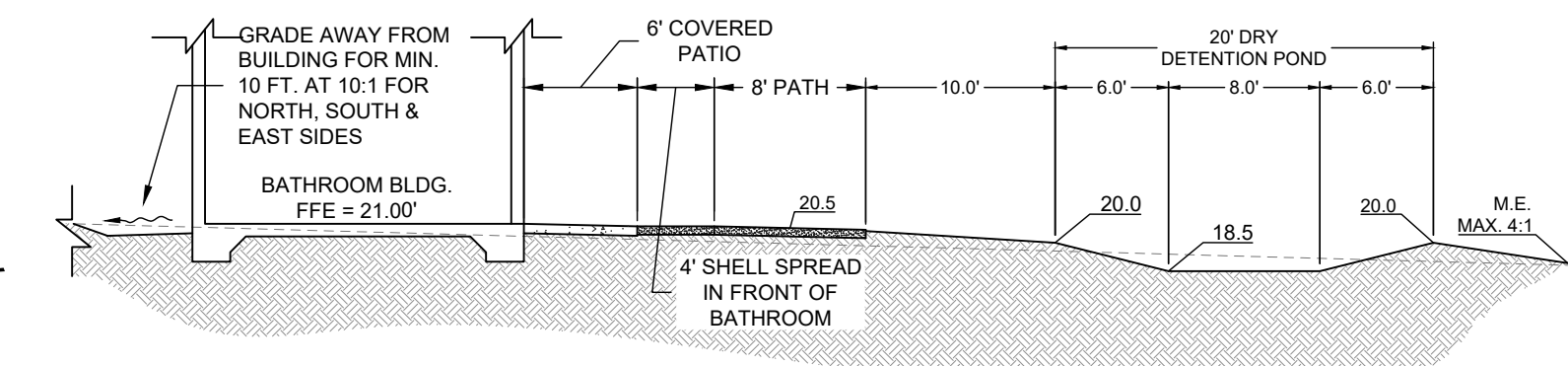
SECTION A-A
SCALE: 1" = 10'



SECTION B-B
SCALE: 1" = 10'



SECTION C-C
SCALE: 1" = 20'



SECTION D-D
SCALE: 1" = 10'

PGD NOTES:

1. GRADING FOR THE ADA-PORTION OF TRAIL SHALL COMPLY WITH CROSS-SLOPES NO GREATER THAN 2.0% AND LONGITUDINAL SLOPES NO GREATER THAN 5.0%.

SITE LEGEND

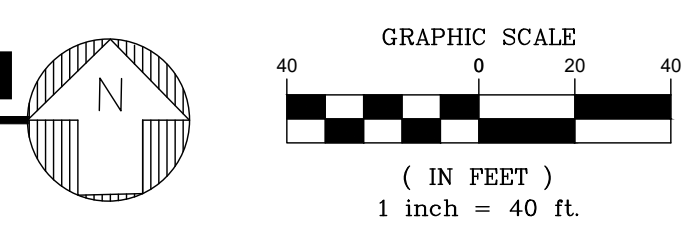
- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED STABILIZED PARKING
- PROPOSED ADA-WALKING TRAIL
- PROPOSED WALKING TRAIL (BY OTHERS)
- PROPOSED MARL PATH (BY OTHERS)
- SIGHT LINE AREA
- DEVELOPMENT BOUNDARY
- PROPERTY BOUNDARY / RIGHT OF WAY LINE
- EXISTING ELEVATION
- PROPOSED ELEVATION
- DRAINAGE FLOW PATTERN



ALL ELEVATIONS IN NAVD 88



PAVING, GRADING, AND DRAINAGE PLAN

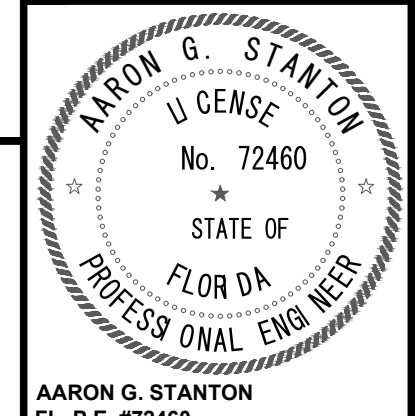


NO.	DATE	REVISIONS
8	6/11/2021	DATE ISSUED
7		
6		
5		
4	10/19/2021	4 PARKS DEPT. REVISIONS
3	9/23/2021	3 ADD SOD QUANTITIES
2	9/23/2021	2 IRCUS COMMENTS
1	8/12/2021	1 IRC COMMENTS

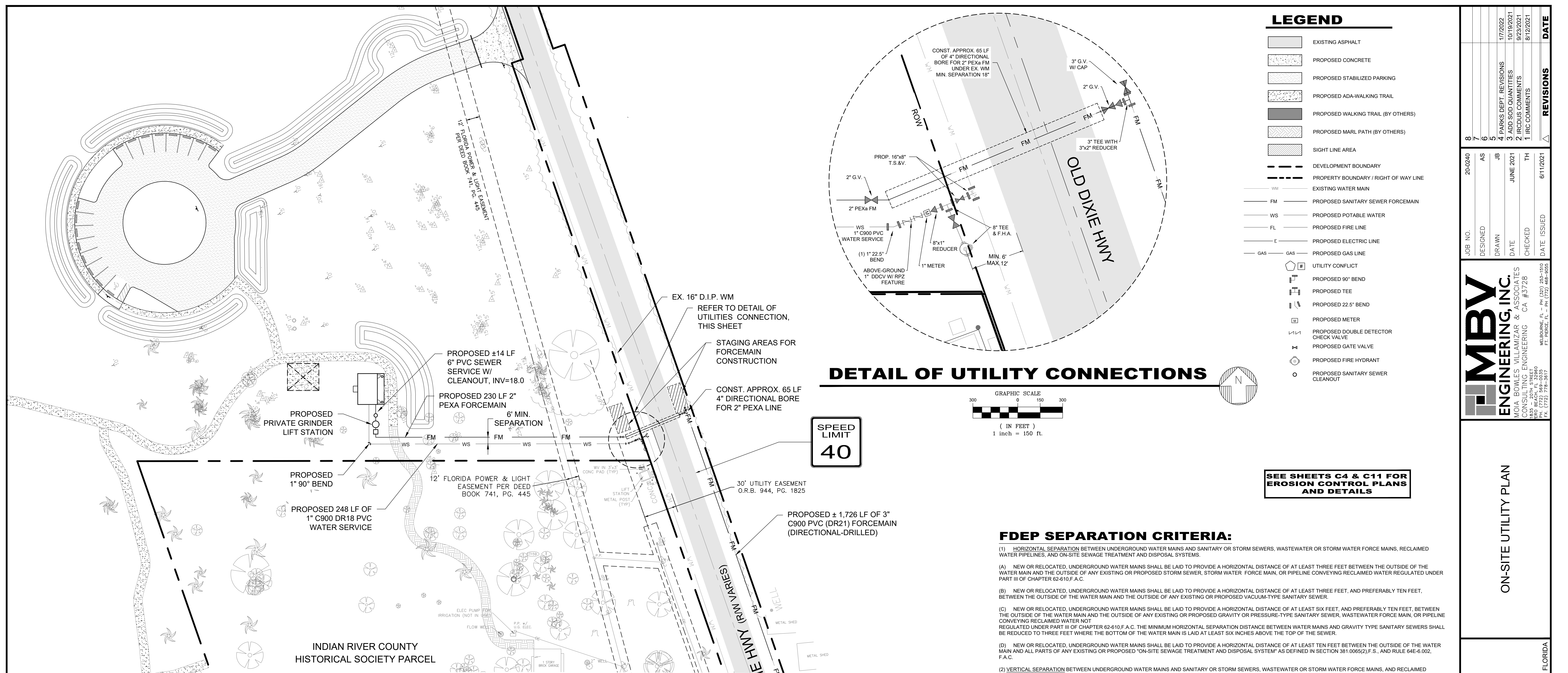
MBV ENGINEERING, INC.
 MOA BONLES-VILLAMIZAR & ASSOCIATES
 ENGINEERING & ARCHITECTURE
 1835 S. 20TH STREET
 BOCA RATON, FL 33432
 TEL: (561) 393-1510
 FAX: (561) 393-1511
 FT. PIERCE, FL - PH: (772) 468-9055

PAVING, GRADING AND DRAINAGE PLAN

HALLSTROM FARMSTEAD CONSERVATION AREA



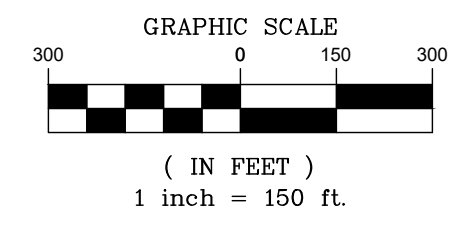
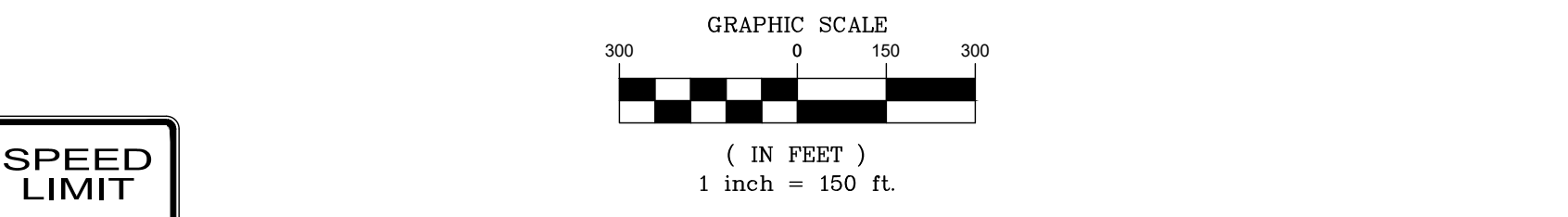
AARON G. STANTON
 FL. P.E. #72460
 SHEET
C7
 20-0240



LEGEND

- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED STABILIZED PARKING
- PROPOSED ADA-WALKING TRAIL
- PROPOSED WALKING TRAIL (BY OTHERS)
- PROPOSED MARL PATH (BY OTHERS)
- SIGHT LINE AREA
- DEVELOPMENT BOUNDARY
- PROPERTY BOUNDARY / RIGHT OF WAY LINE
- EXISTING WATER MAIN
- PROPOSED SANITARY SEWER FORCEMAIN
- PROPOSED POTABLE WATER
- PROPOSED FIRE LINE
- PROPOSED ELECTRIC LINE
- PROPOSED GAS LINE
- UTILITY CONFLICT
- PROPOSED 90° BEND
- PROPOSED TEE
- PROPOSED 22.5° BEND
- PROPOSED METER
- PROPOSED DOUBLE DETECTOR CHECK VALVE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER CLEANOUT

DETAIL OF UTILITY CONNECTIONS



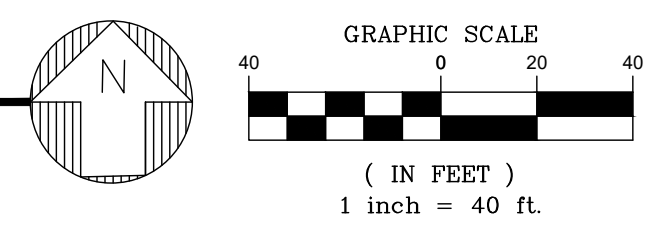
SPEED LIMIT
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SEE SHEETS C4 & C11 FOR EROSION CONTROL PLANS AND DETAILS

FDEP SEPARATION CRITERIA:

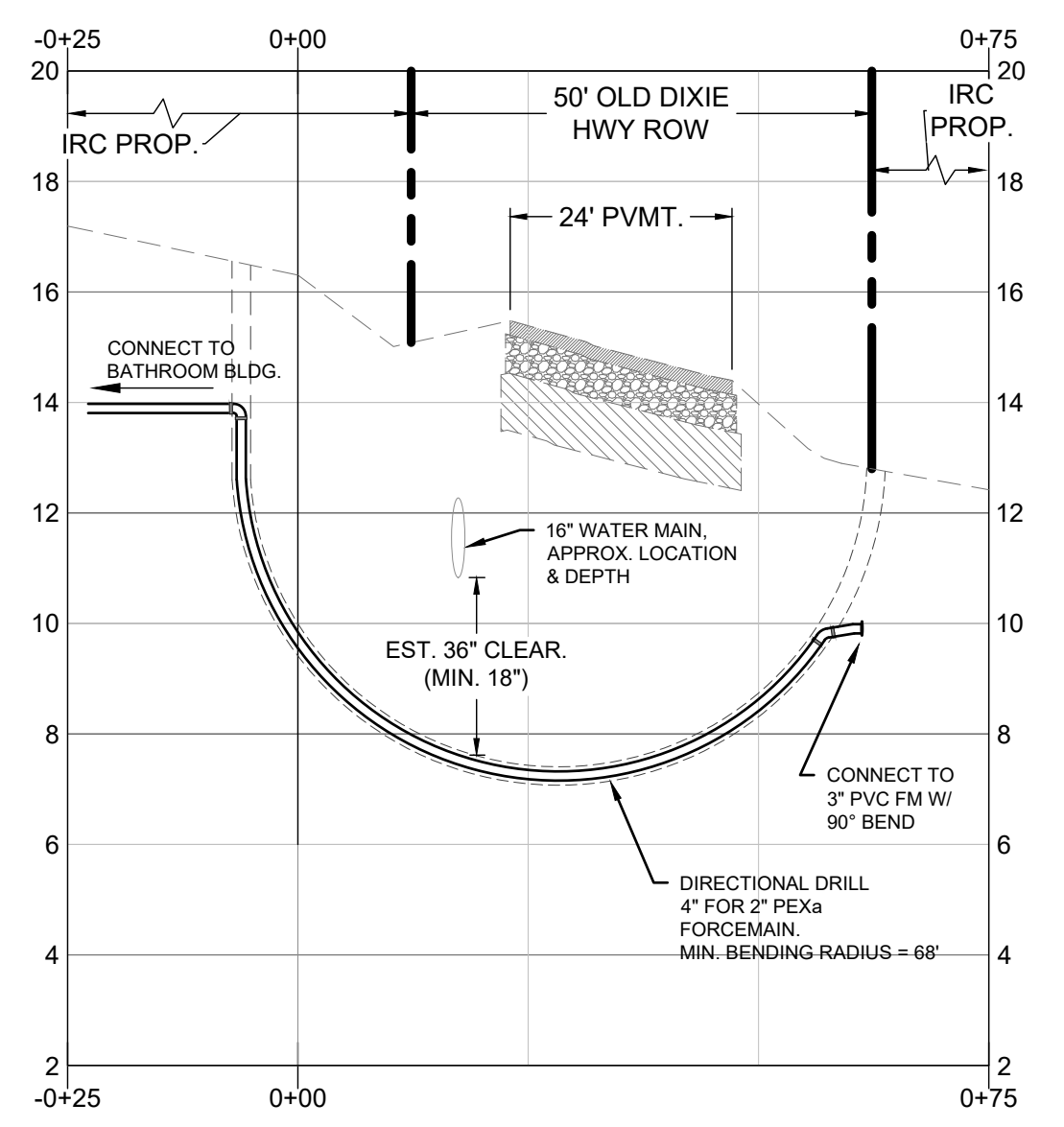
- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - (B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - (C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - (D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY TEN INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - (B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES
 - (A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
 - (B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.
- (4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

UTILITY PLAN

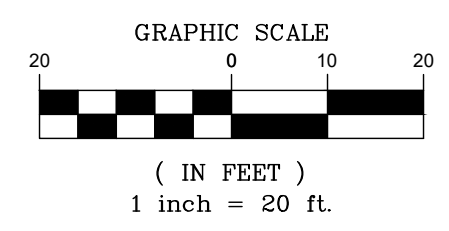


UTILITY NOTES:

1. THE LOCATION OF ANY FORCEMAIN REDIRECTION PITS SHALL BE PROVIDED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.



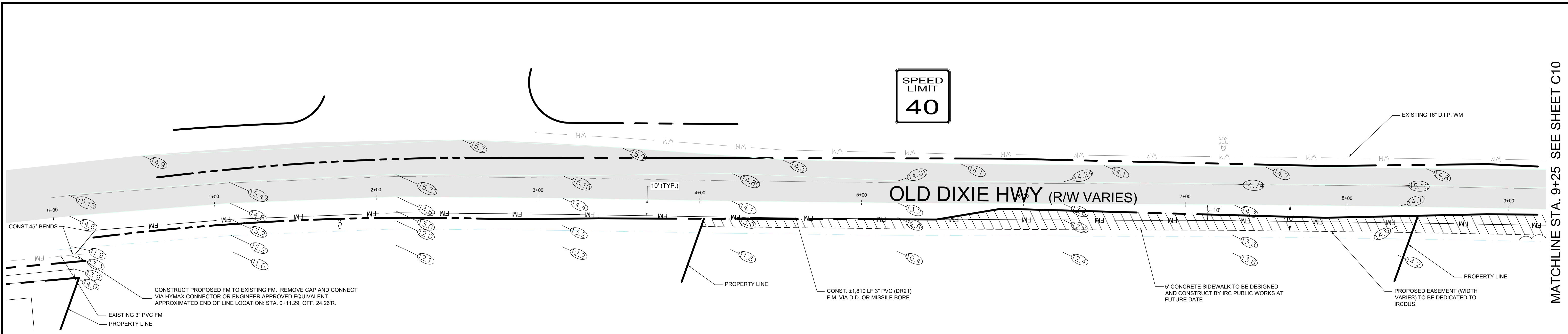
DIRECTIONAL BORE SECTION



ALL ELEVATIONS IN NAVD 88



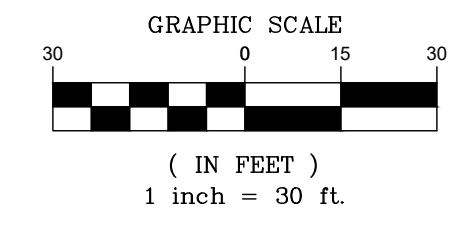
JOB NO. 20-0240		DESIGNED AS	DRAWN JIB	DATE JUNE 2021	CHECKED TH	DATE ISSUED 6/11/2021
4 PARKS DEPT. REVISIONS 1/7/2022		3 ADD SOD QUANTITIES 10/19/2021		2 IRC COMMENTS 9/23/2021		1 IRC COMMENTS 8/12/2021
						REVISIONS
<p>ENGINEERING, INC. MOA BONLES-VILLANAZAR & ASSOCIATES REGISTERED PROFESSIONAL ENGINEERING - CA #57128 1835 S. 20TH STREET MIAMI BEACH, FL 33136 TEL: (305) 953-1510 FAX: (305) 953-1511 FL. PERM. NO. - PH (772) 448-9055</p>						
ON-SITE UTILITY PLAN						
HALLSTROM FARMSTEAD CONSERVATION AREA						
FLORIDA						
INDIAN RIVER COUNTY						
SHEET						
C8						
20-0240						



LEGEND

	EXISTING ASPHALT
	EXISTING ASPHALT
	PROPERTY BOUNDARY / RIGHT OF WAY LINE
	EXISTING WATER MAIN
	PROPOSED SANITARY SEWER FORCEMAIN
	EXISTING GRADE

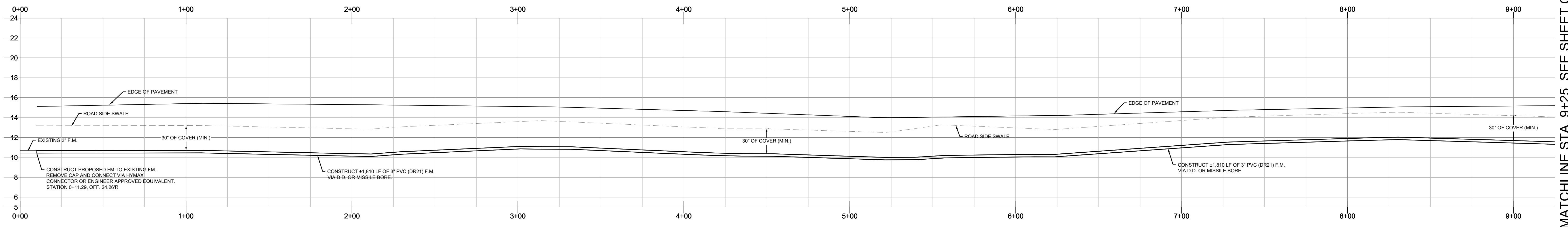
OLD DIXIE HIGHWAY OFF-SITE PLAN VIEW



MATCHLINE STA. 9+25 SEE SHEET C10

NO.	DATE	REVISIONS
8	6/11/2021	DATE ISSUED
7		CHECKED
6		DATE
5		DRAWN
4		DESIGNED
3		JOB
2		TH
1		DATE

MBV ENGINEERING, INC.
 MOA BOWLES-VILLANIZAR & ASSOCIATES
 ENGINEERING CA #3728
 1830 20TH STREET
 BREVARD COUNTY, FL 32960
 TEL: (772) 778-3817
 FAX: (772) 778-3817
 MICHIGNE, FL - PH (321) 953-1510
 FT. PIERCE, FL - PH (772) 468-9055



NOTES

- EXISTING 3" F.M. END LOCATION IS APPROXIMATED FROM COUNTY ASBUILTS IN PDF FORMAT. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
- F.M. EXTENSION ALONG OLD DIXIE SHALL BE VIA DIRECTIONAL OR MISSILE BORE.

OLD DIXIE HIGHWAY OFF-SITE PROFILE VIEW (0+00 - 9+25)

SCALE: 1" = 30' H.
1" = 10' V.

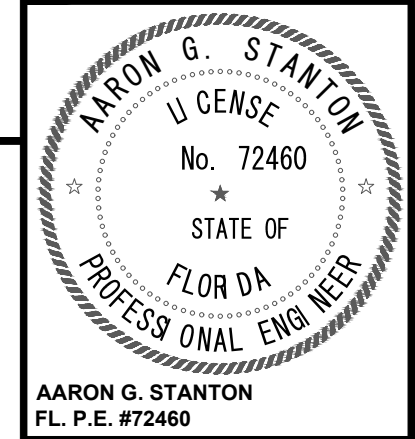
MATCHLINE STA. 9+25 SEE SHEET C10

OLD DIXIE HIGHWAY OFF-SITE PLAN & PROFILE

HALLSTROM FARMSTEAD CONSERVATION AREA
INDIAN RIVER COUNTY
FLORIDA

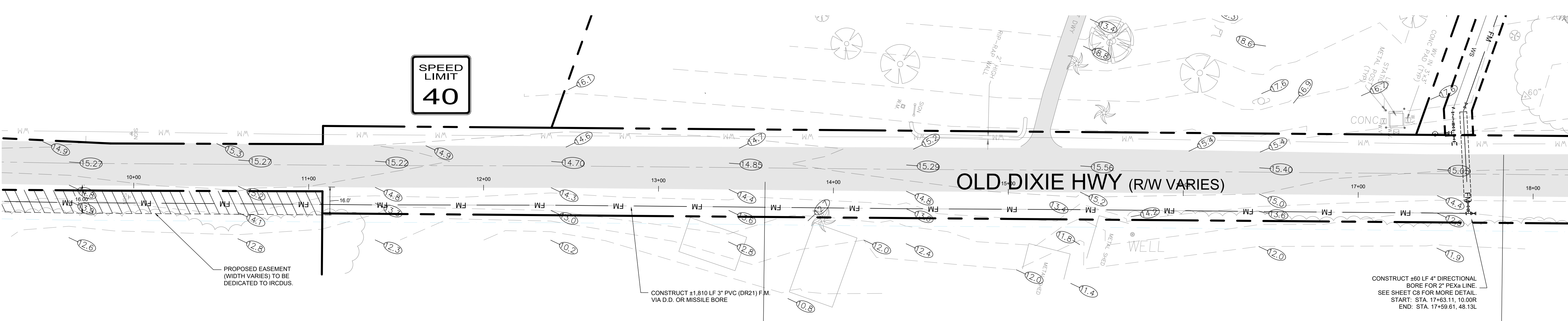


ALL ELEVATIONS IN NAVD 88

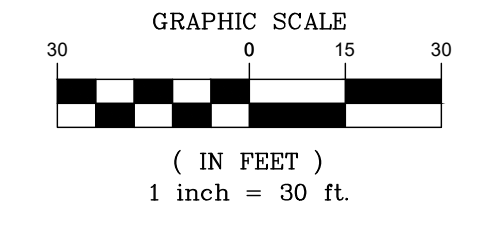


AARON G. STANTON
FL. P.E. #72460
SHEET
C9
20-0240

MATCHLINE STA. 9+25 SEE SHEET C9



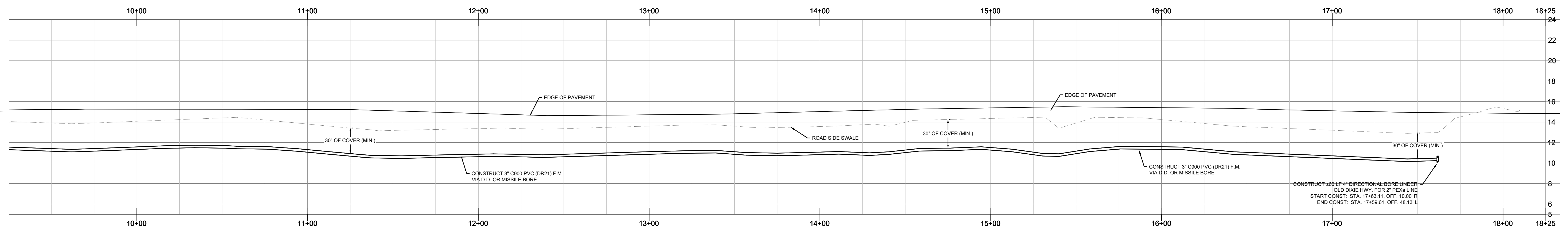
OLD DIXIE HIGHWAY OFF-SITE PLAN VIEW



LEGEND

- EXISTING ASPHALT
- EXISTING ASPHALT
- PROPERTY BOUNDARY / RIGHT OF WAY LINE
- EXISTING WATER MAIN
- PROPOSED SANITARY SEWER FORCEMAIN
- EXISTING GRADE

MATCHLINE STA. 9+25 SEE SHEET C9



NOTES

1. EXISTING 3" FM END LOCATION IS APPROXIMATED FROM COUNTY ASBUILTS IN PDF FORMAT. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
2. FM EXTENSION ALONG OLD DIXIE SHALL BE VIA DIRECTIONAL OR MISSILE BORE.

OLD DIXIE HIGHWAY OFF-SITE PROFILE VIEW (9+25 - 18+25)

SCALE: 1" = 30' H.
1" = 10' V.

ALL ELEVATIONS IN
NAVD 88

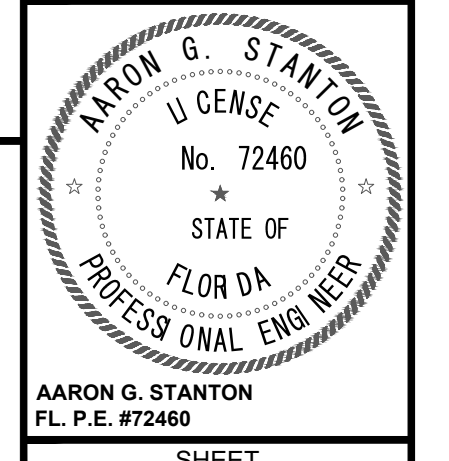


NO.	DATE	REVISIONS
8	6/11/2021 <td>DATE ISSUED</td>	DATE ISSUED
7		CHECKED
6		DRAWN
5		DESIGNED
4	17/2022	4 PARKS DEPT. REVISIONS
3	10/19/2021	3 ADD SOD QUANTITIES
2	9/23/2021	2 IRCUS COMMENTS
1	8/12/2021	1 IRC COMMENTS

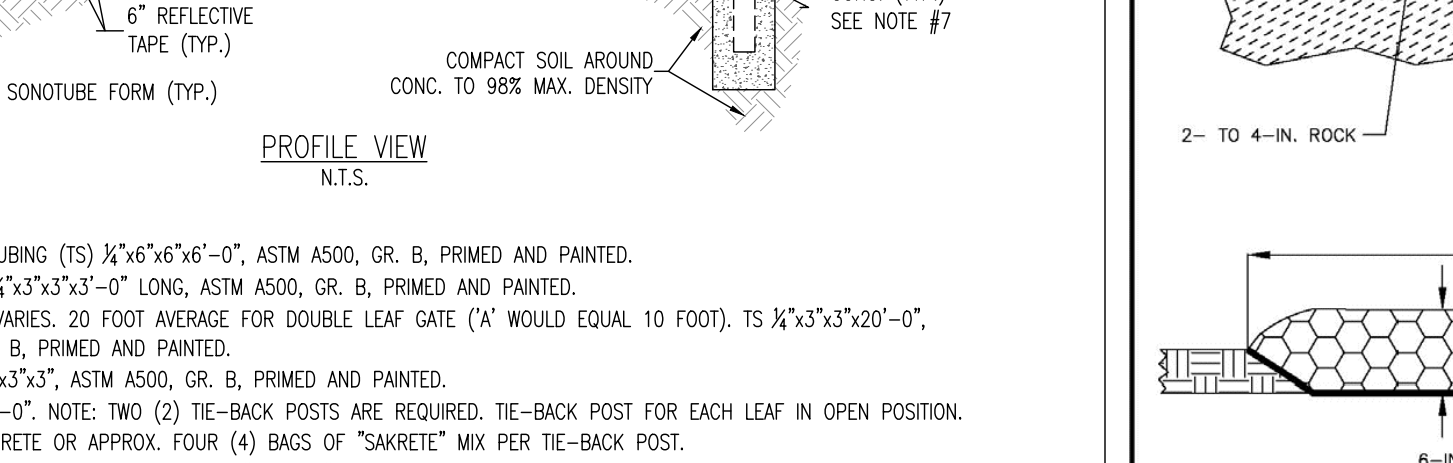
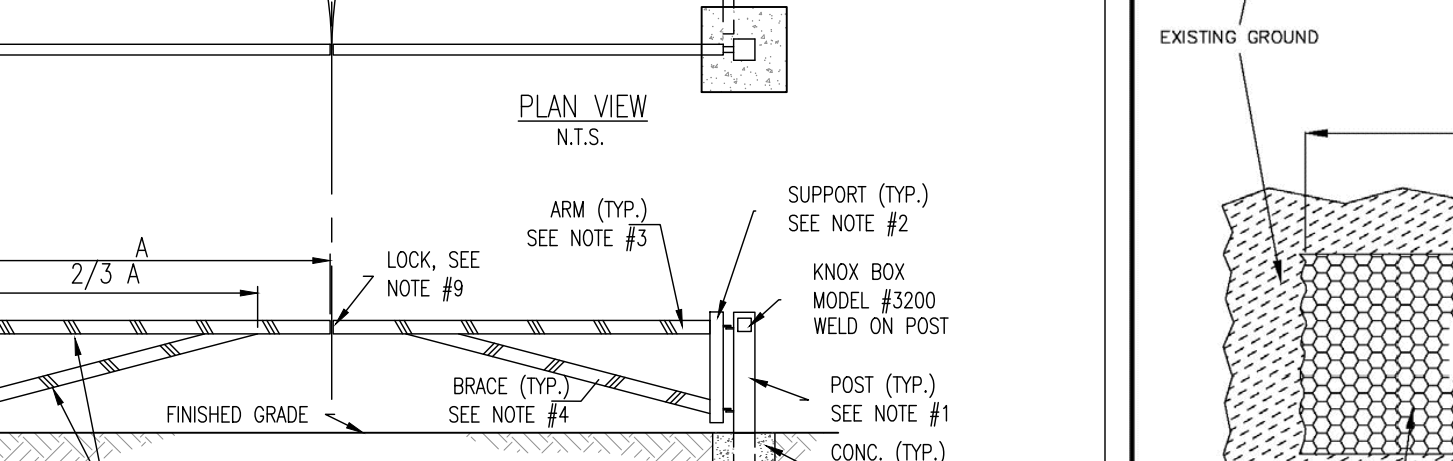
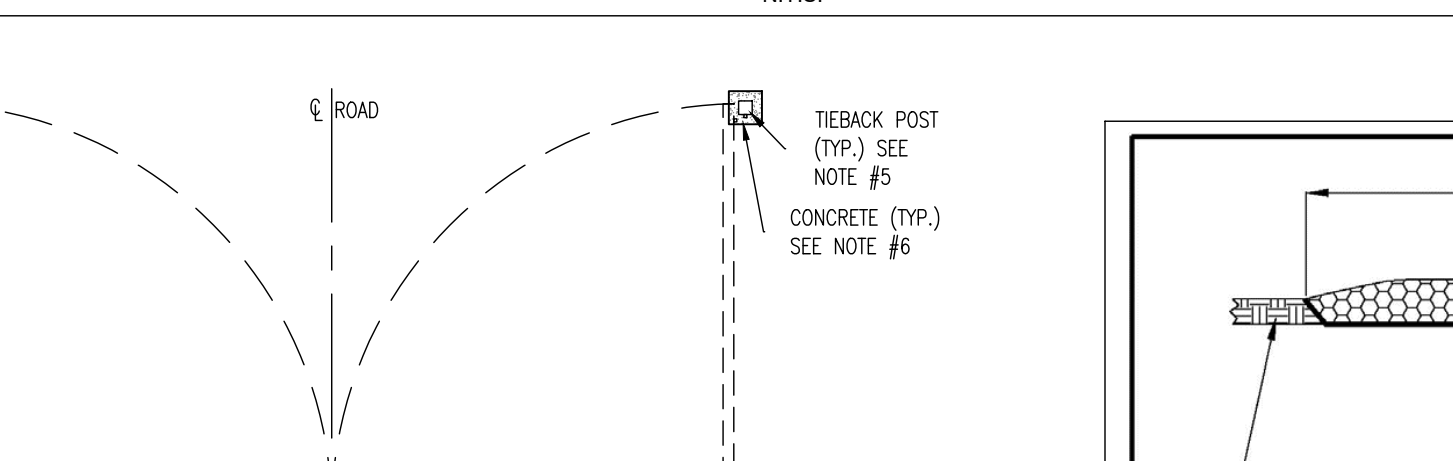
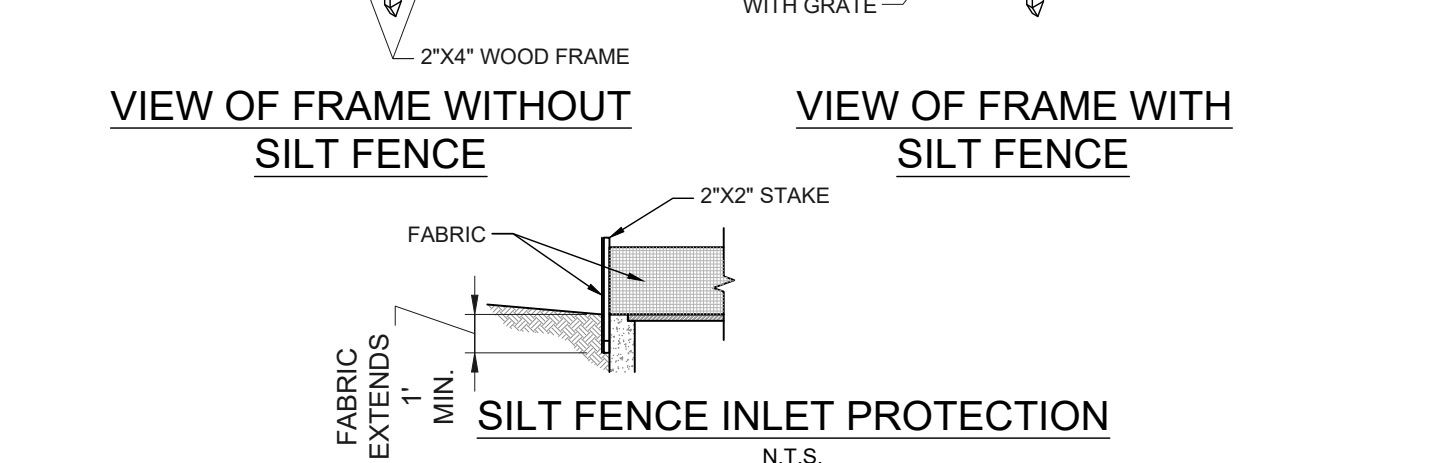
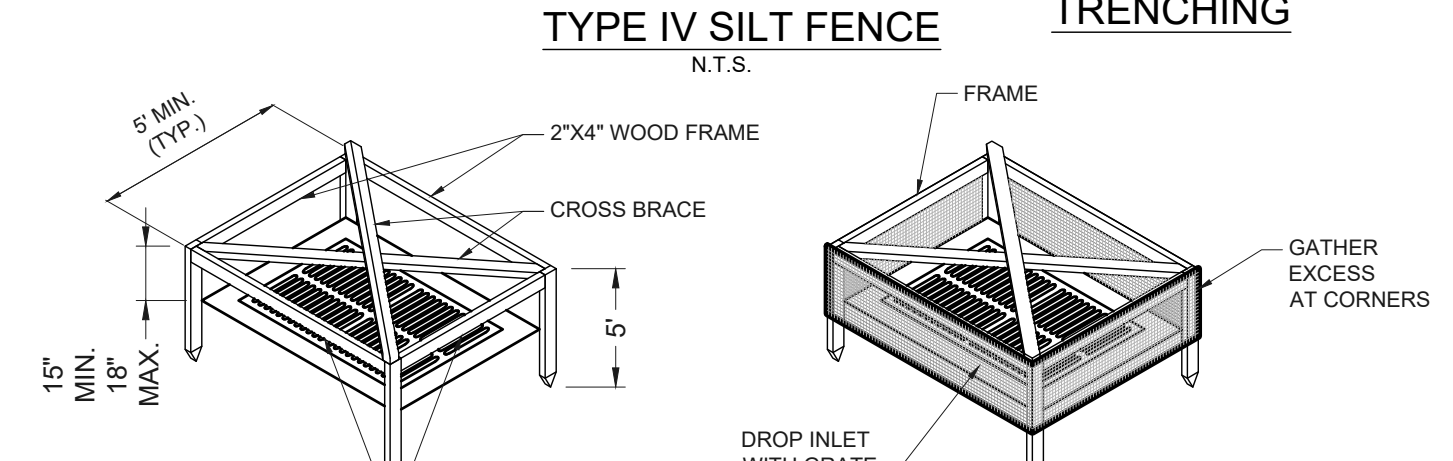
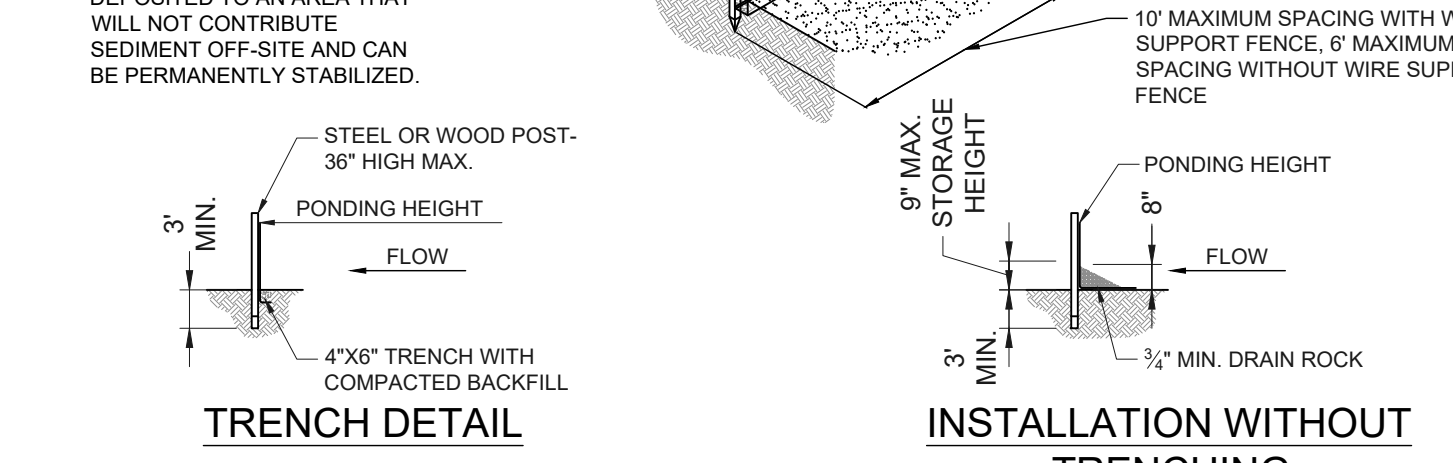
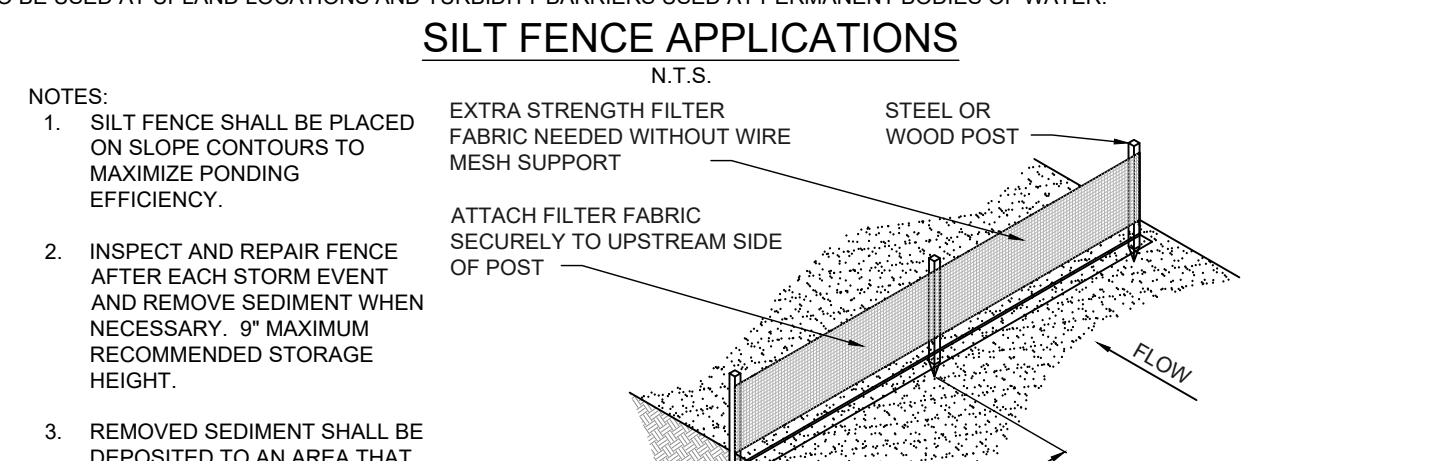
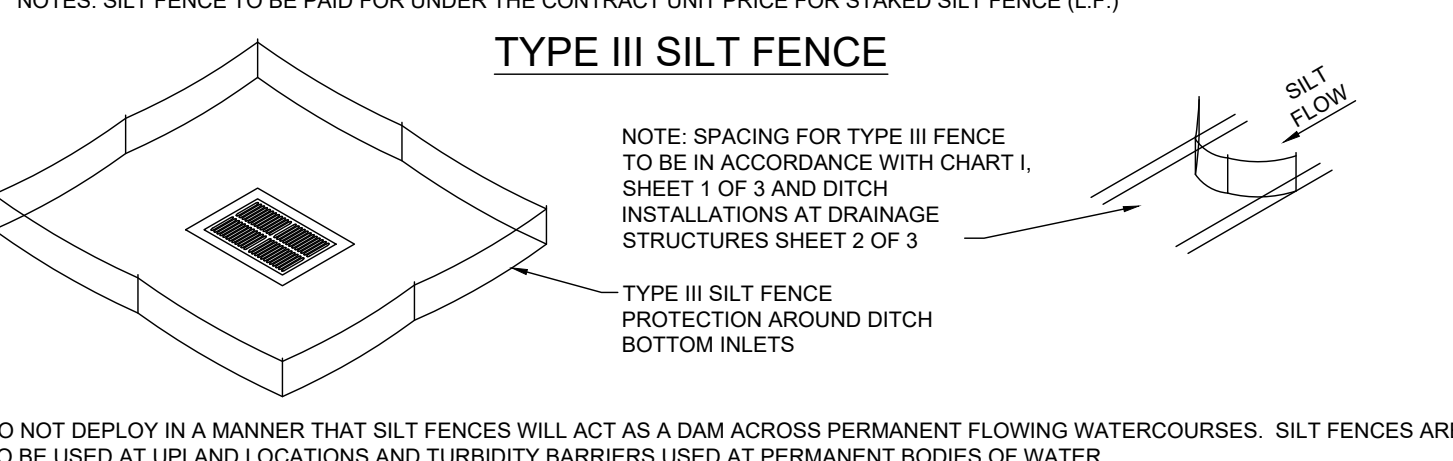
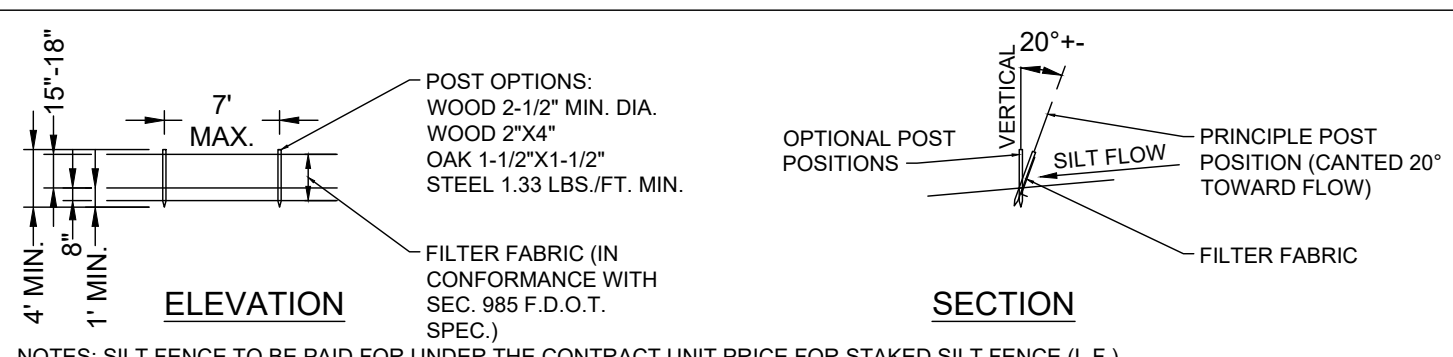
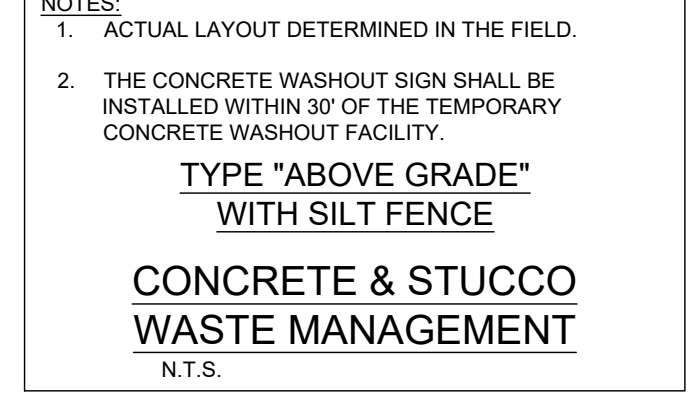
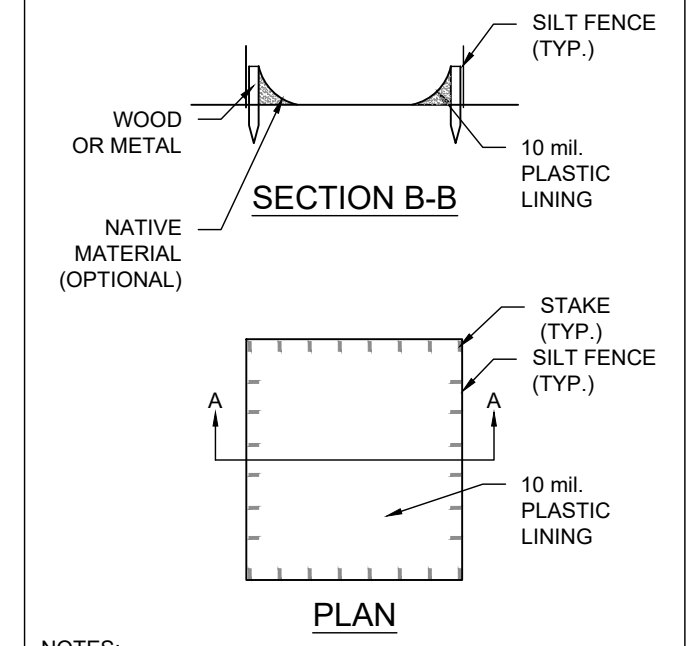
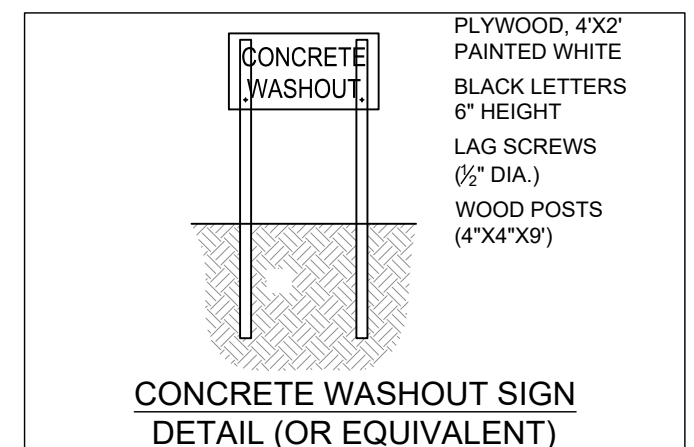
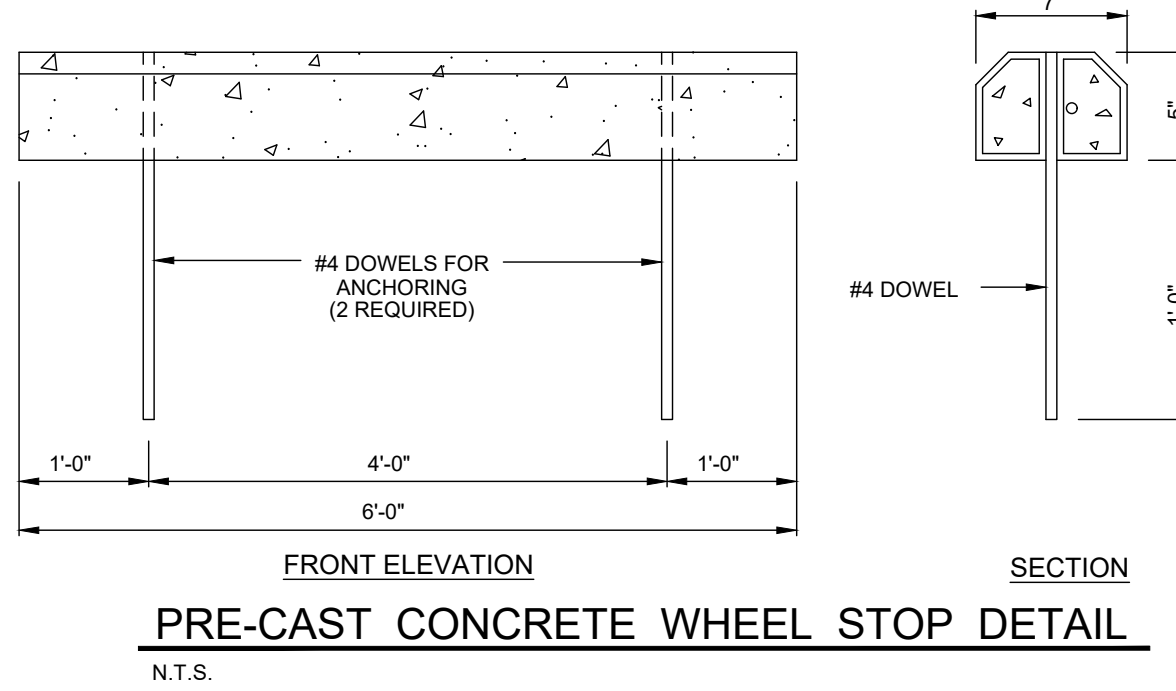
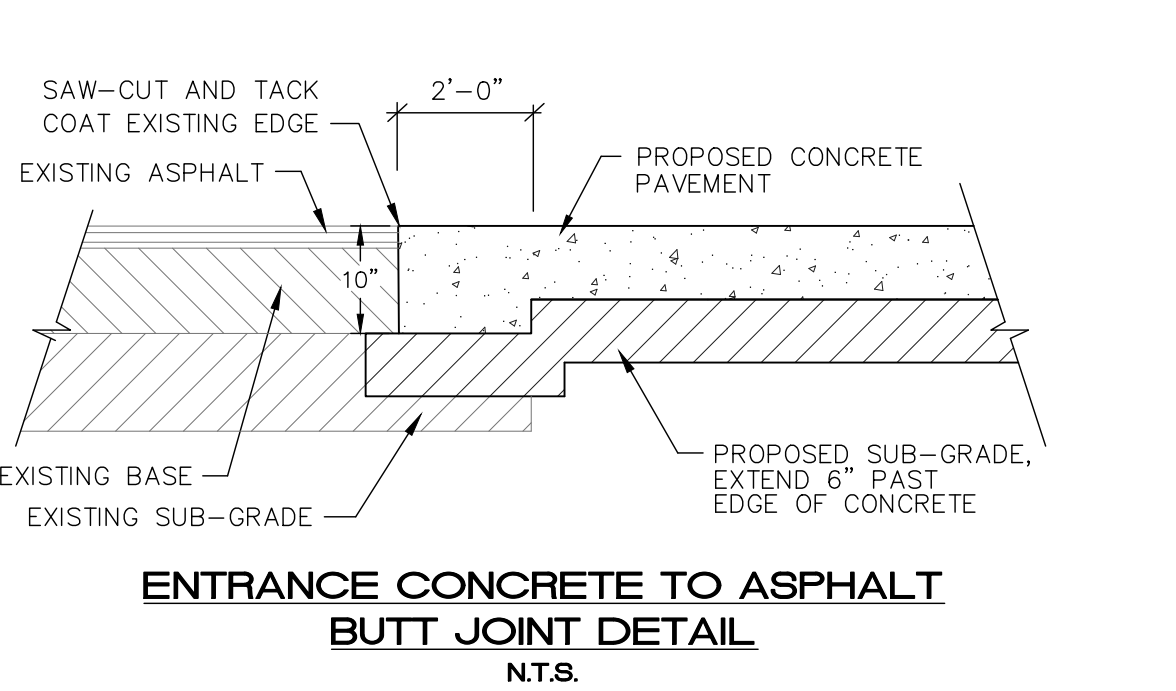
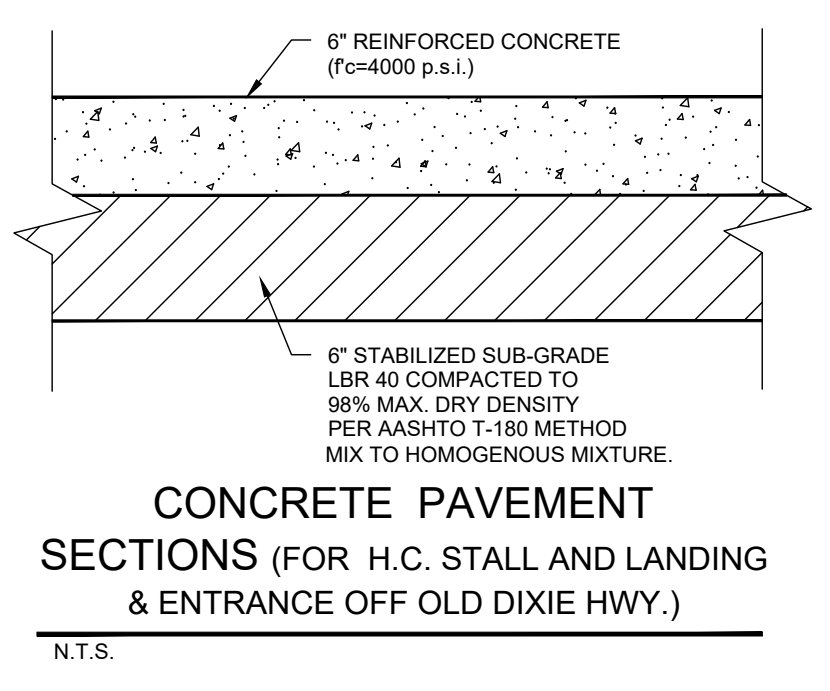
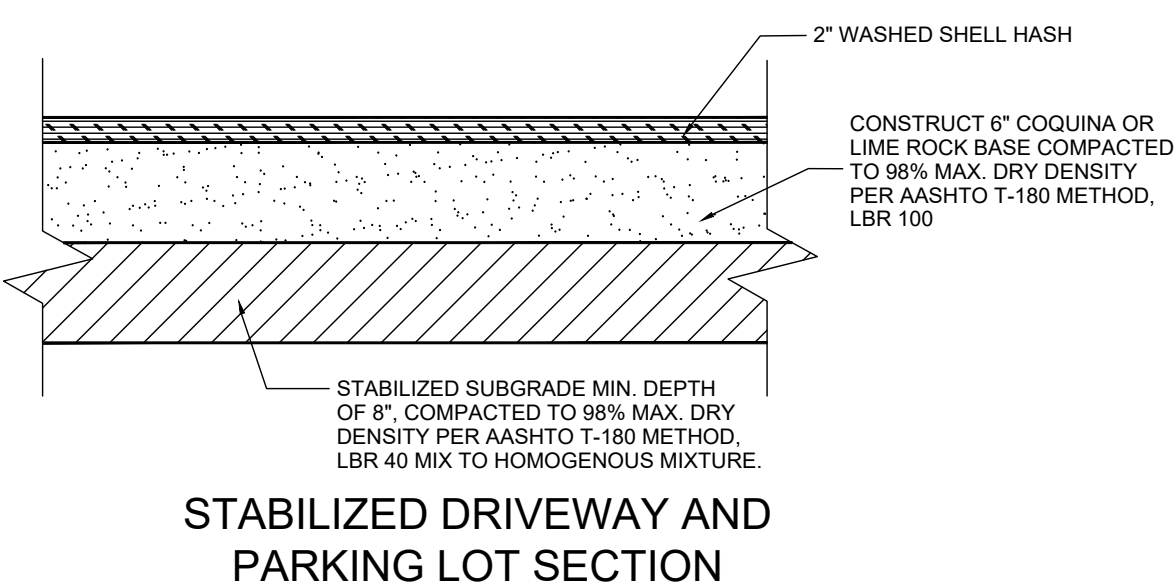
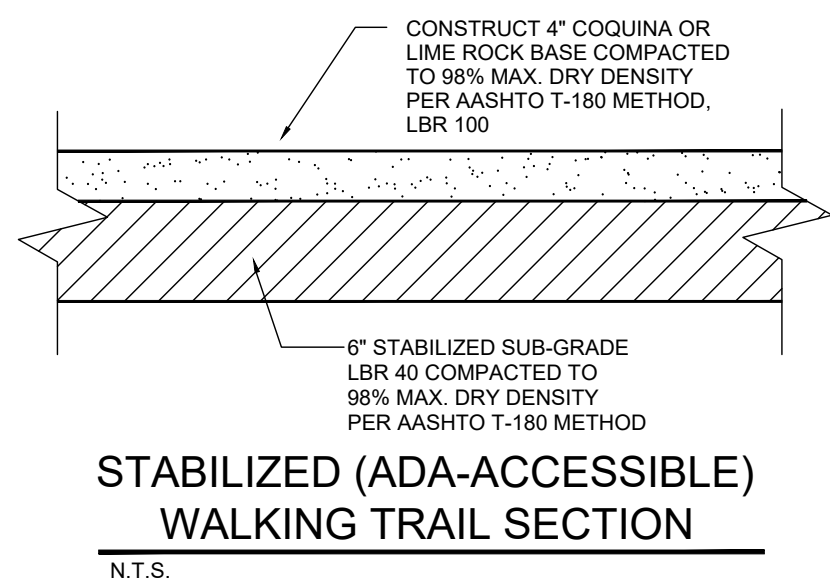
MBV ENGINEERING, INC.
 MOA BOWLES-VILLAMIZAR & ASSOCIATES
 ENGINEERING & ASSOCIATES
 CA #57128
 1835 W. 20TH STREET
 BOCA RATON, FL 33460
 TEL: (561) 993-1510
 FAX: (561) 993-3817
 MIAMI, FL - PH: (772) 448-9055
 FT. PIERCE, FL - PH: (772) 448-9055

OLD DIXIE HIGHWAY OFF-SITE
PLAN & PROFILE

HALLSTROM FARMSTEAD
CONSERVATION AREA
INDIAN RIVER COUNTY
FLORIDA



SHEET
C10
20-0240



EROSION AND SEDIMENTATION CONTROL NOTES

CONSTRUCTION ACTIVITIES CAN RESULT IN THE GENERATION OF SIGNIFICANT AMOUNTS OF POLLUTANTS WHICH MAY REACH SURFACE OR GROUND WATERS. ONE OF THE PRIMARY POLLUTANTS OF SURFACE WATERS IS SEDIMENT DUE TO EROSION. EXCESSIVE AMOUNTS OF SEDIMENT WHICH REACH WATER BODIES OF FLOOD PLAINS HAVE BEEN SHOWN TO ADVERSELY AFFECT THEIR PHYSICAL, BIOLOGICAL AND CHEMICAL PROPERTIES. TRANSPORTED SEDIMENT CAN OBSTRUCT STREAM CHANNELS, REDUCE HYDRAULIC CAPACITY OF WATER BODIES OF FLOOD PLAINS, REDUCE THE DESIGN CAPACITY OF CULVERTS AND OTHER WORKS, AND ELIMINATE BENTHIC INVERTEBRATES AND FISH SPAWNING SUBSTRATES BY SILTATION. EXCESSIVE SUSPENDED SEDIMENTS REDUCE LIGHT PENETRATION AND THEREFORE, REDUCE PRIMARY PRODUCTIVITY.

MINIMUM STANDARDS

- SEDIMENT BASIN AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UNSLOPE LAND DISTURBANCE TAKES PLACE.
- ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENIED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENIED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENIED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE REVIEWER, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.
- AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LININGS SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

13. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

14. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

16. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.

17. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

C. EFFLUENT FROM Dewatering OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

D. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

18. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

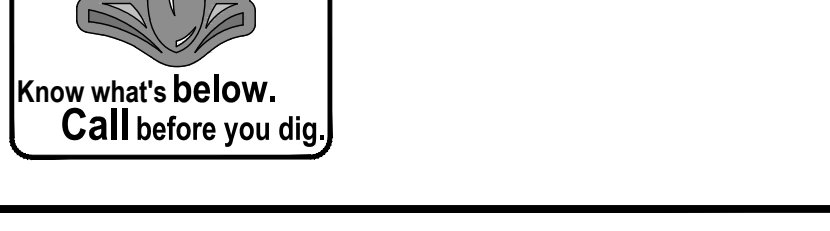
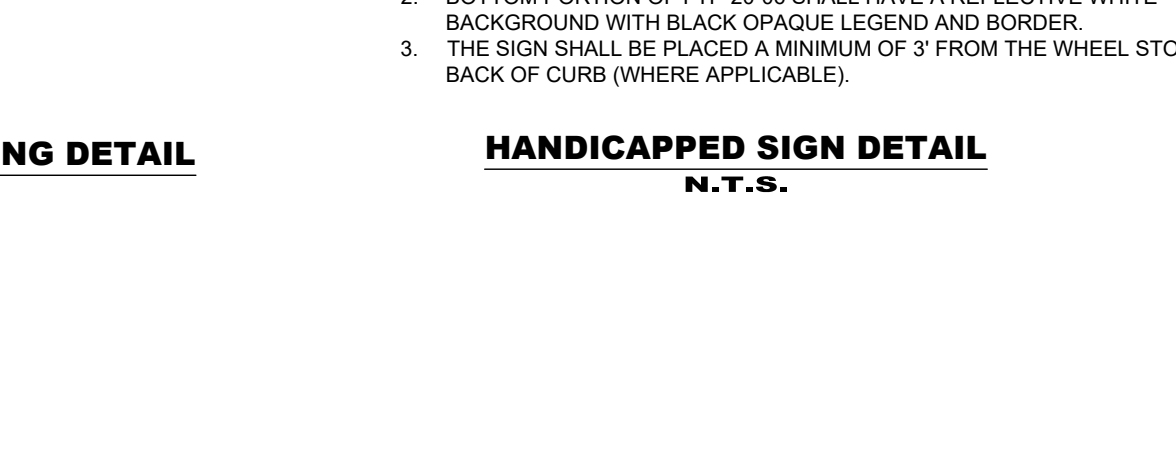
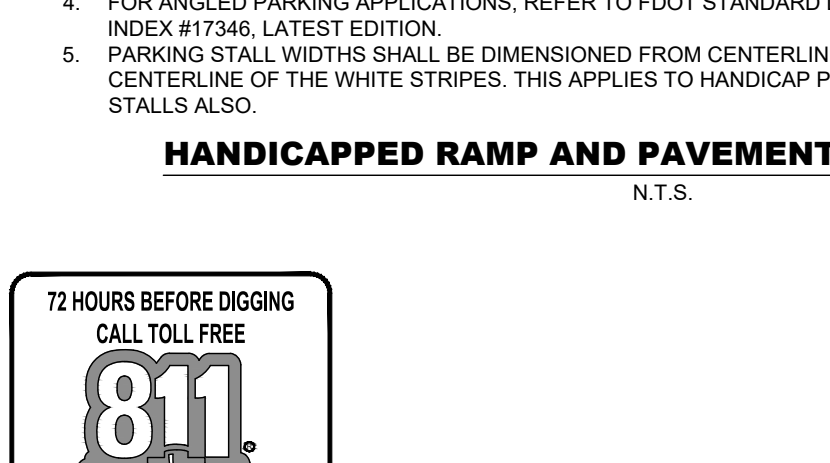
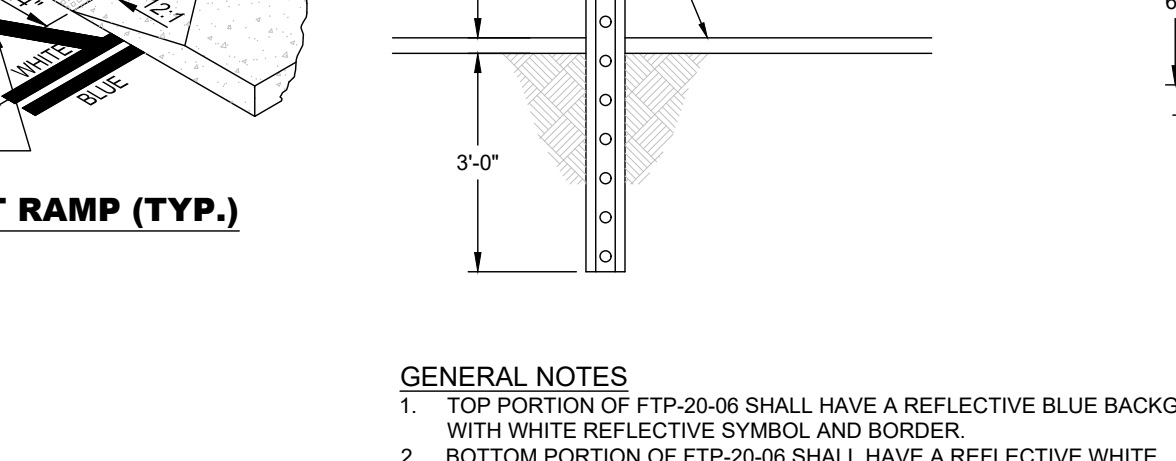
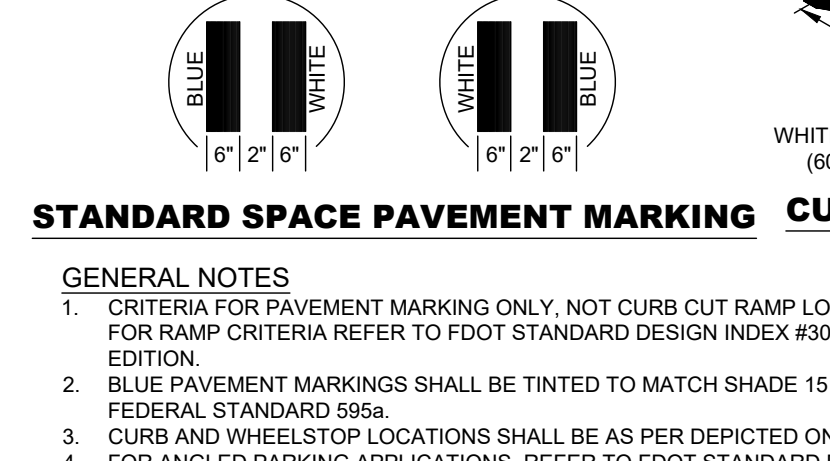
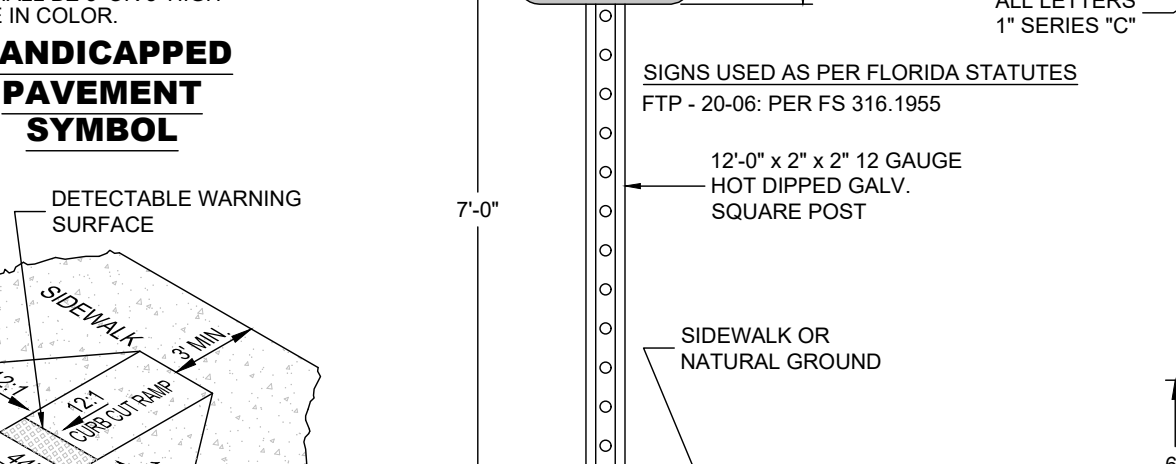
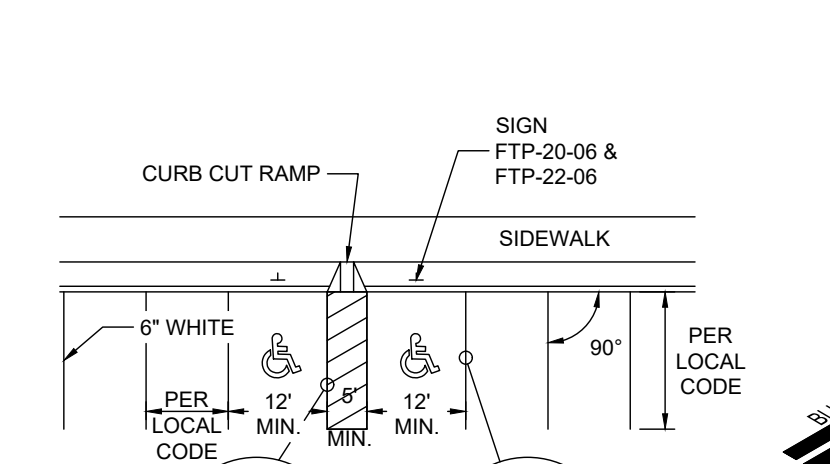
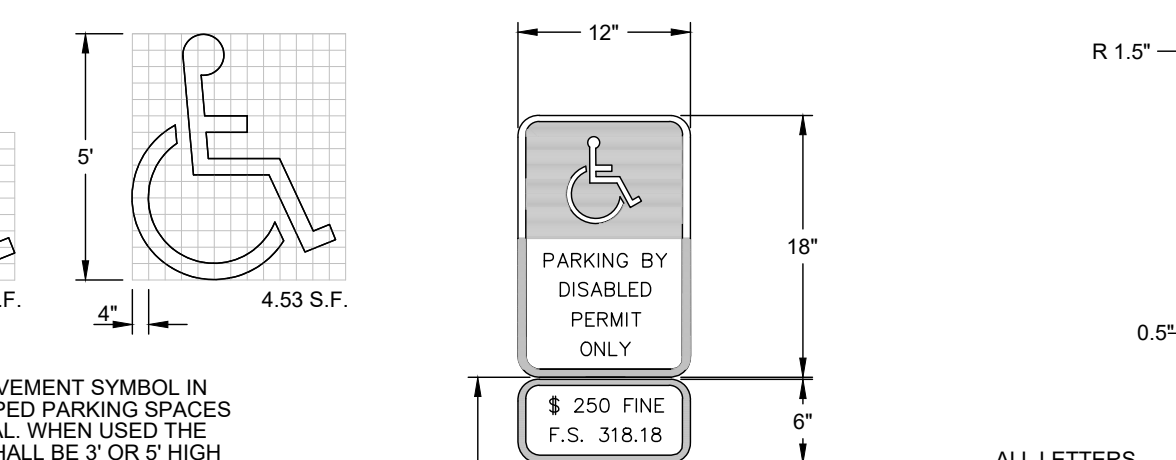
19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 90 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, IN THE OPINION OF THE REVIEWER. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

20. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DISPOSITION AND EROSION.

21. PHASED PROJECTS SHOULD BE CLEARED IN CONJUNCTION WITH CONSTRUCTION OF EACH PHASE.

22. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NOS. 104 AND 105 OF FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS.

23. THE REVIEWER MAY APPROVE MODIFICATIONS OR ALTER PLANS TO THESE EROSION CONTROL CRITERIA DUE TO SITE SPECIFIC CONDITIONS.



NO.	REVISIONS	DATE
1	RC COMMENTS	8/12/2021
2	RC COMMENTS	9/23/2021
3	ADD SOD QUANTITIES	10/19/2021
4	PARKS DEPT. REVISIONS	1/7/2022
5	JOB NO.	20-0240
6	DESIGNED	AS
7	DRAWN	JB
8	DATE	JUNE 2021
9	CHECKED	TH
10	DATE ISSUED	6/11/2021

JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	DATE ISSUED
20-0240	AS	JB	JUNE 2021	TH	6/11/2021

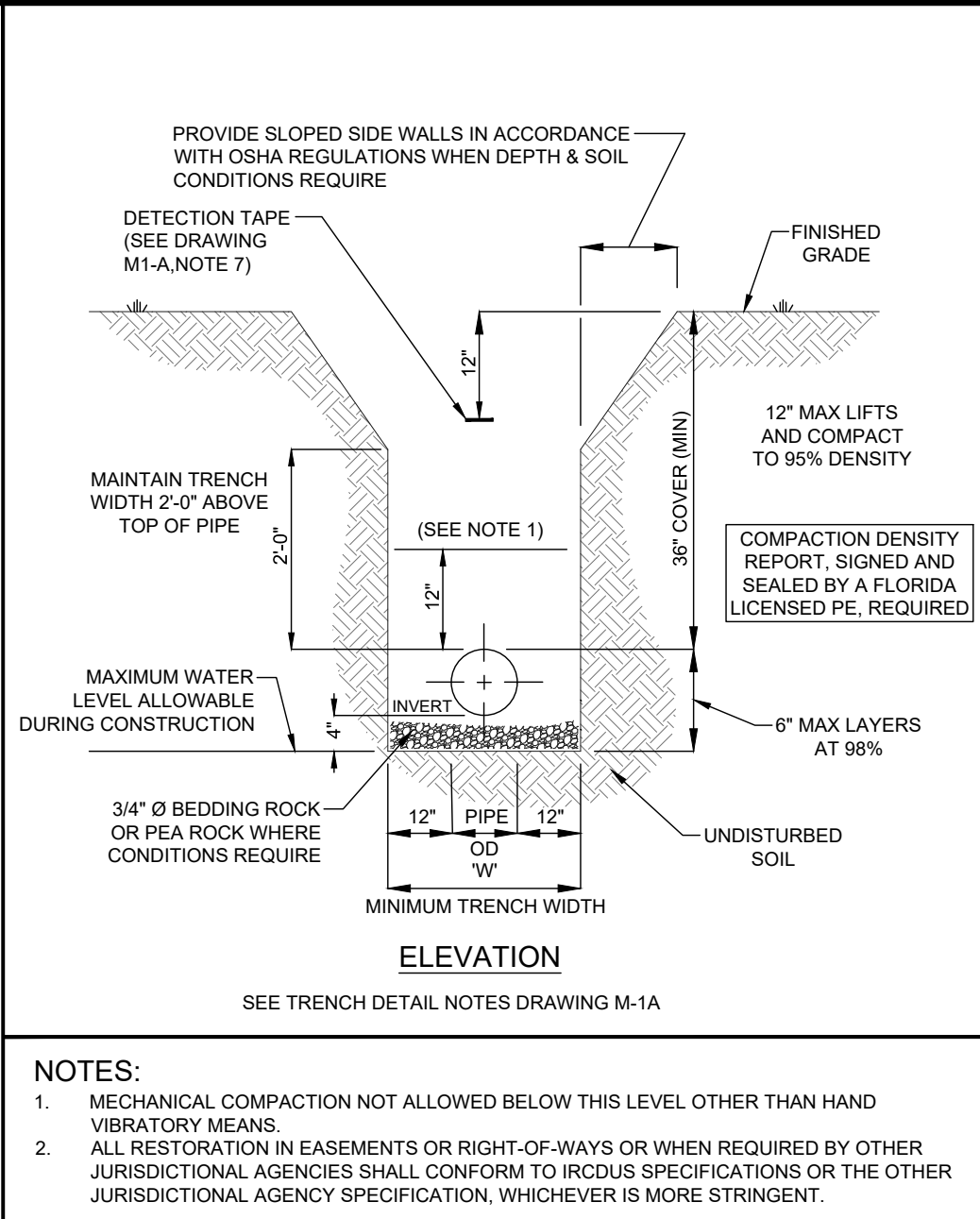
MBV ENGINEERING, INC.
MOHA BOWLES VILLALBAZ & ASSOCIATES
ENGINEERING & ARCHITECTURE
1830 N. 20TH STREET
BOCA RATON, FL 33486
TEL: (561) 993-1510
FAX: (561) 993-1511
FL. REG. NO. 17724

PAVING, GRADING, DRAINAGE & EROSION CONTROL DETAILS

HALLSTROM FARMSTEAD CONSERVATION AREA

AARON G. STANTON
LICENSED PROFESSIONAL ENGINEER
FL. P.E. #72460

C11
20-0240



NOTES:

- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCDUS FOR APPROVAL.
- SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
- COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
- COMPACTION REPORTS REQUIRED.
- MINIMUM TRENCH WIDTH "W" + PIPE O.D. PLUS 2'-0".
- TRACE WIRE TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
- ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
- ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
- EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNER.

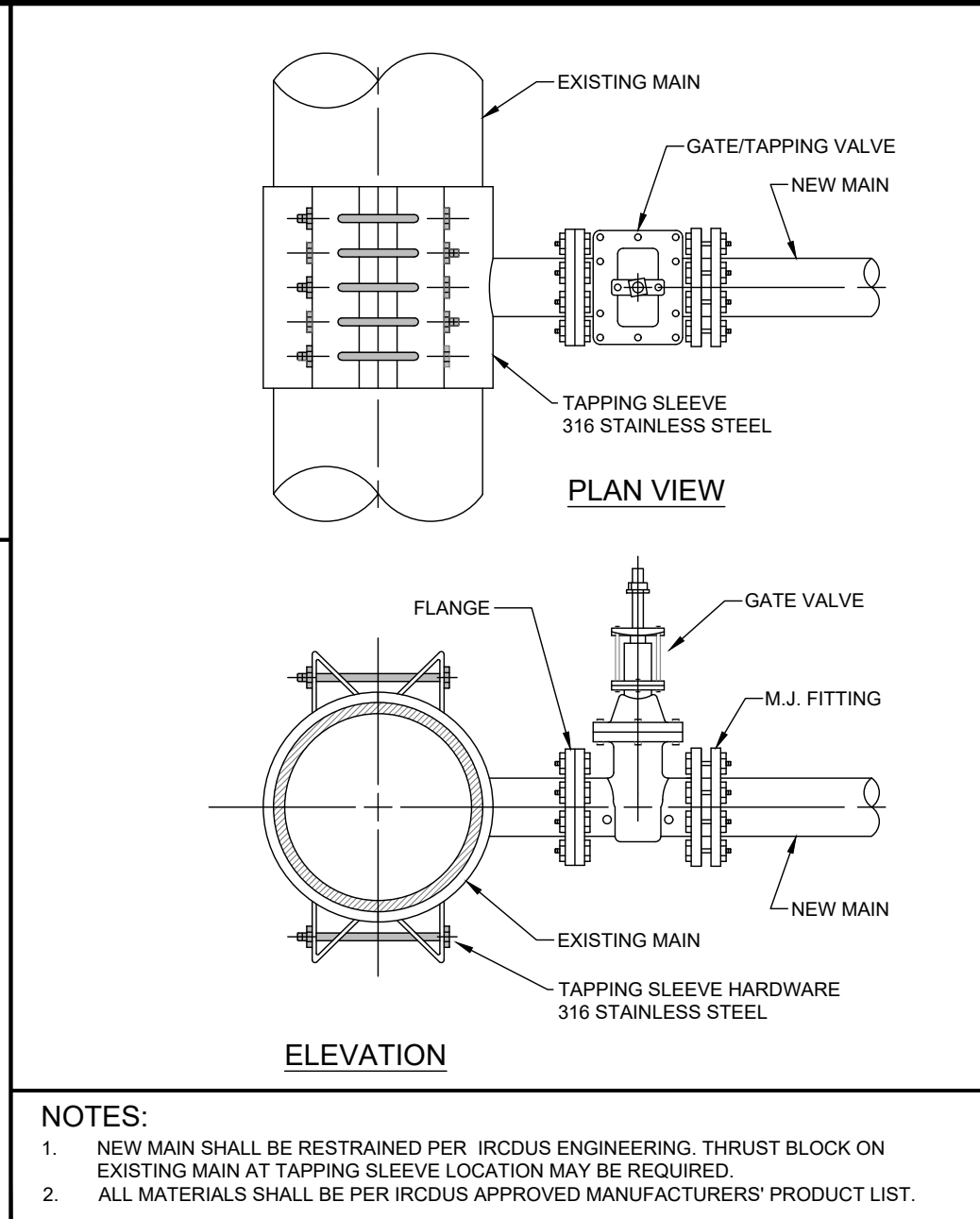
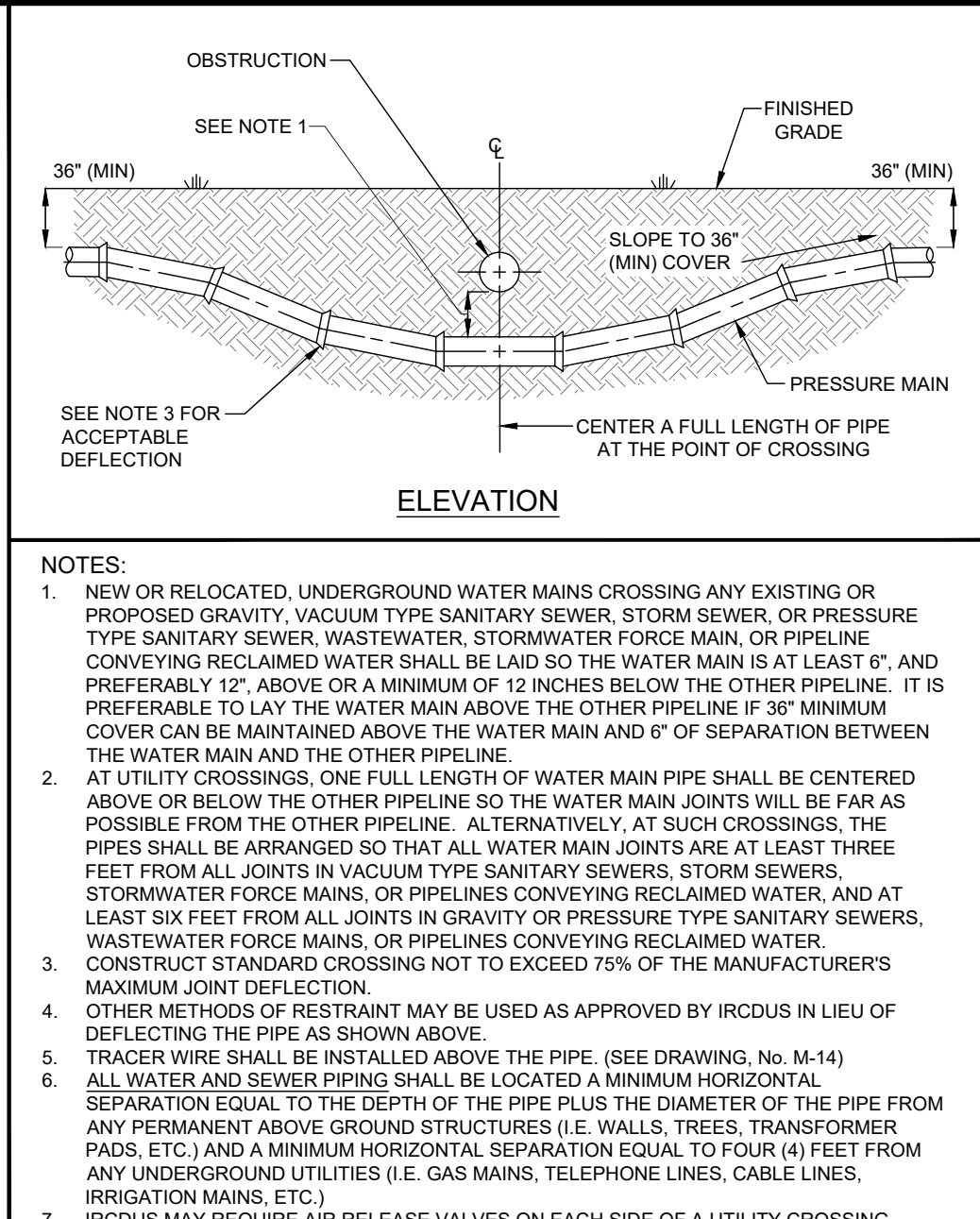
RESTRAINED LENGTH IN FEET EACH SIDE OF BEND

PIPE DIAMETER (INCHES)	D.I.P.				P.V.C.			
	90°	45°	22 1/2°	11 1/4°	90°	45°	22 1/2°	11 1/4°
3"	30	15	10	5	40	20	10	5
4"	35	15	10	5	55	25	15	10
6"	55	25	10	5	80	35	20	10
8"	65	30	15	10	90	40	20	10
10"	80	35	20	10	110	50	25	15
12"	95	40	20	10	130	55	30	15
16"	120	50	25	15	165	70	35	20
20"	150	65	30	15	200	85	40	20
24"	180	70	35	20	210	90	45	25
30"	190	80	40	20	250	105	50	25
36"	220	95	45	25	0	0	0	0
42"	245	105	50	25	0	0	0	0
48"	260	120	60	30	0	0	0	0

RESTRAINED LENGTHS FOR LARGER DIAMETER PIPES

PIPE DIAMETER (INCHES)	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	40	0	0	0	0	0	0	0	0	0
6"	50	45	0	0	0	0	0	0	0	0
8"	75	70	40	0	0	0	0	0	0	0
10"	95	90	70	40	0	0	0	0	0	0
12"	120	115	100	75	40	0	0	0	0	0
16"	160	155	140	125	100	70	0	0	0	0
20"	200	195	185	170	150	130	75	0	0	0
24"	160	155	150	140	135	120	90	50	0	0
30"	195	190	185	180	170	160	120	105	70	0
36"	225	220	215	210	205	195	180	150	125	70
42"	245	240	235	230	225	220	205	180	155	105
48"	255	250	245	240	235	230	215	195	175	125

ALL IN-LINE VALVES SHALL BE TREATED AS DEAD END WITH RESTRAINED PIPE JOINTS UP AND DOWN



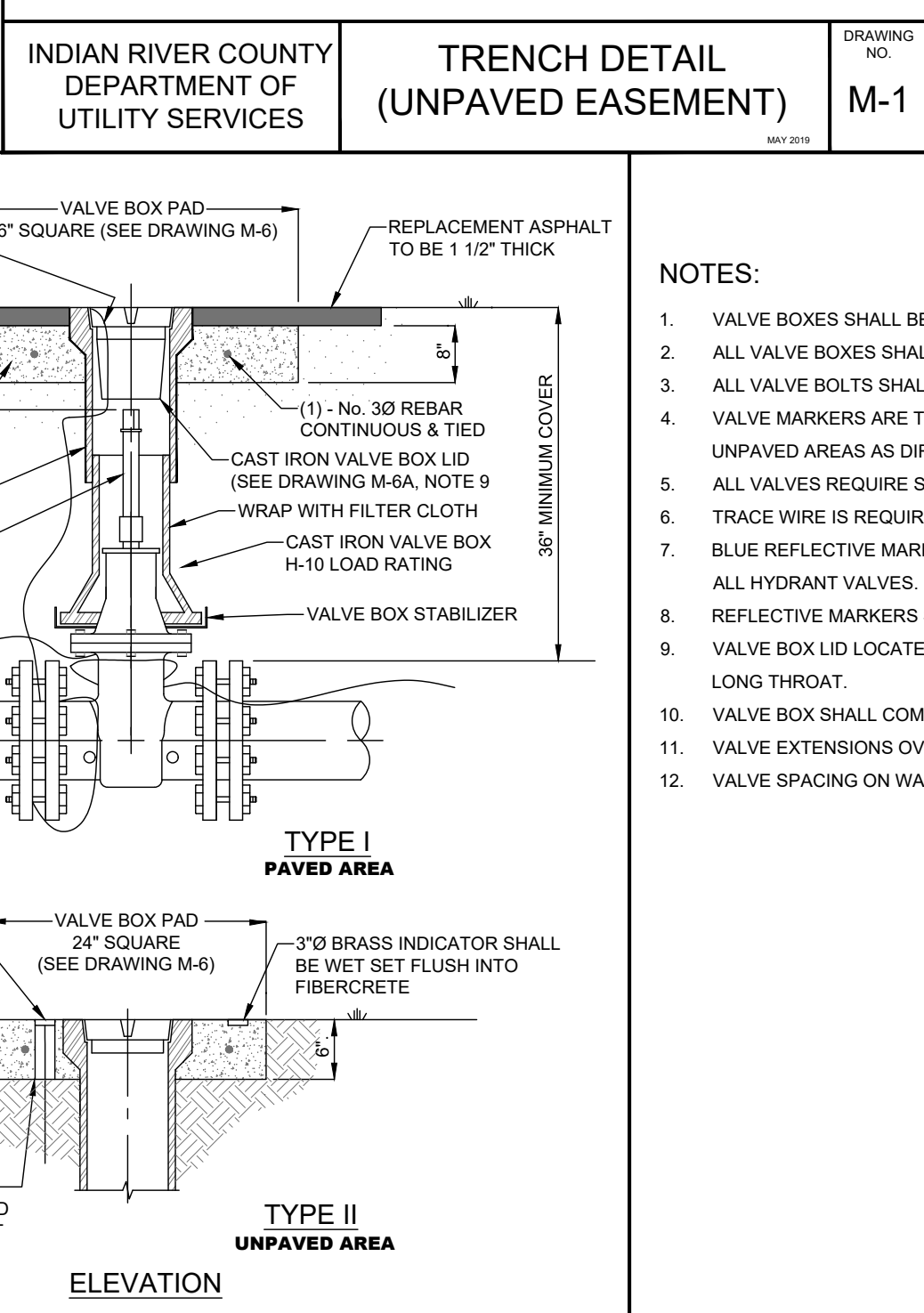
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TAPPING SLEEVE AND VALVE ASSEMBLY

DRAWING NO. M-5

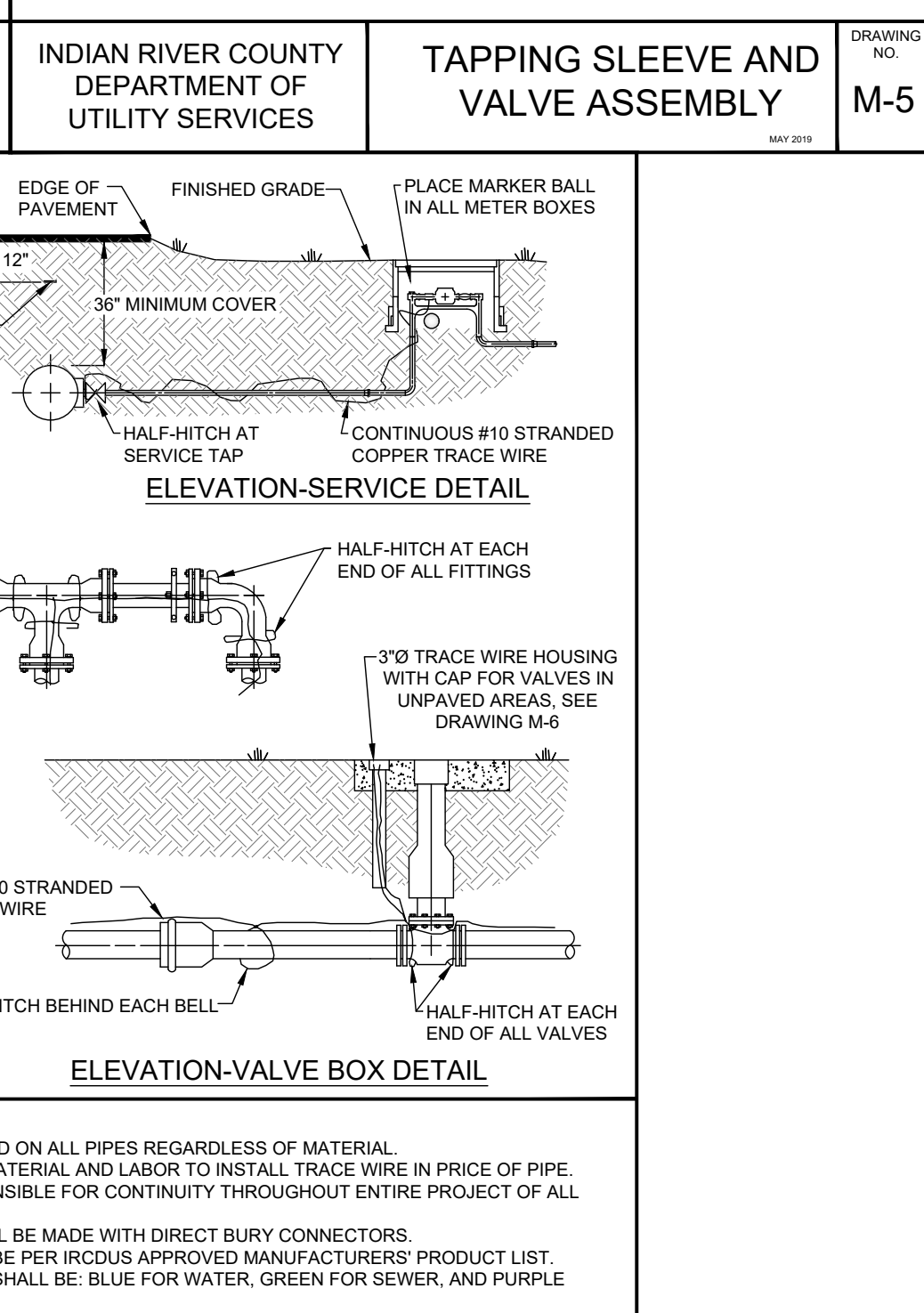
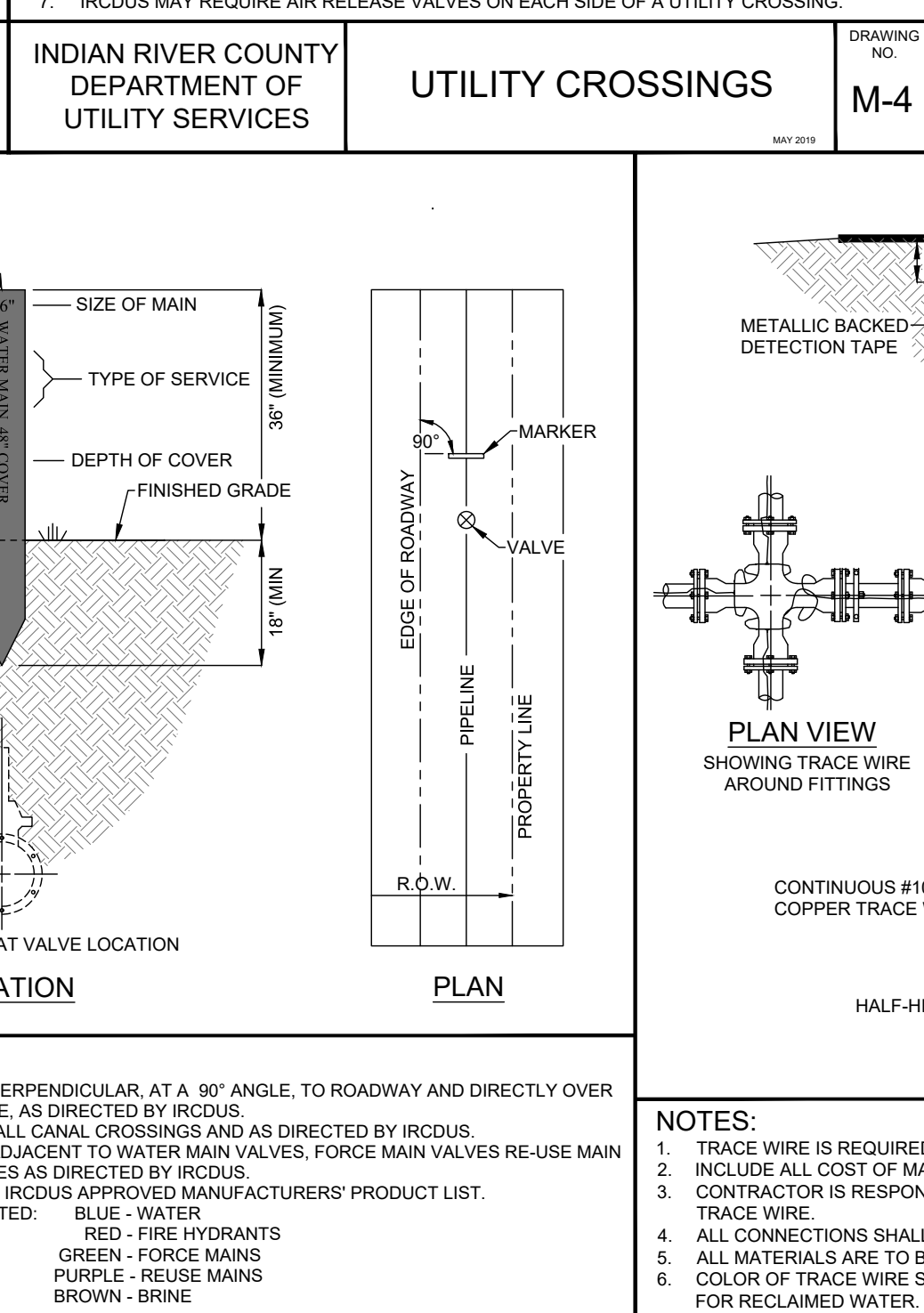
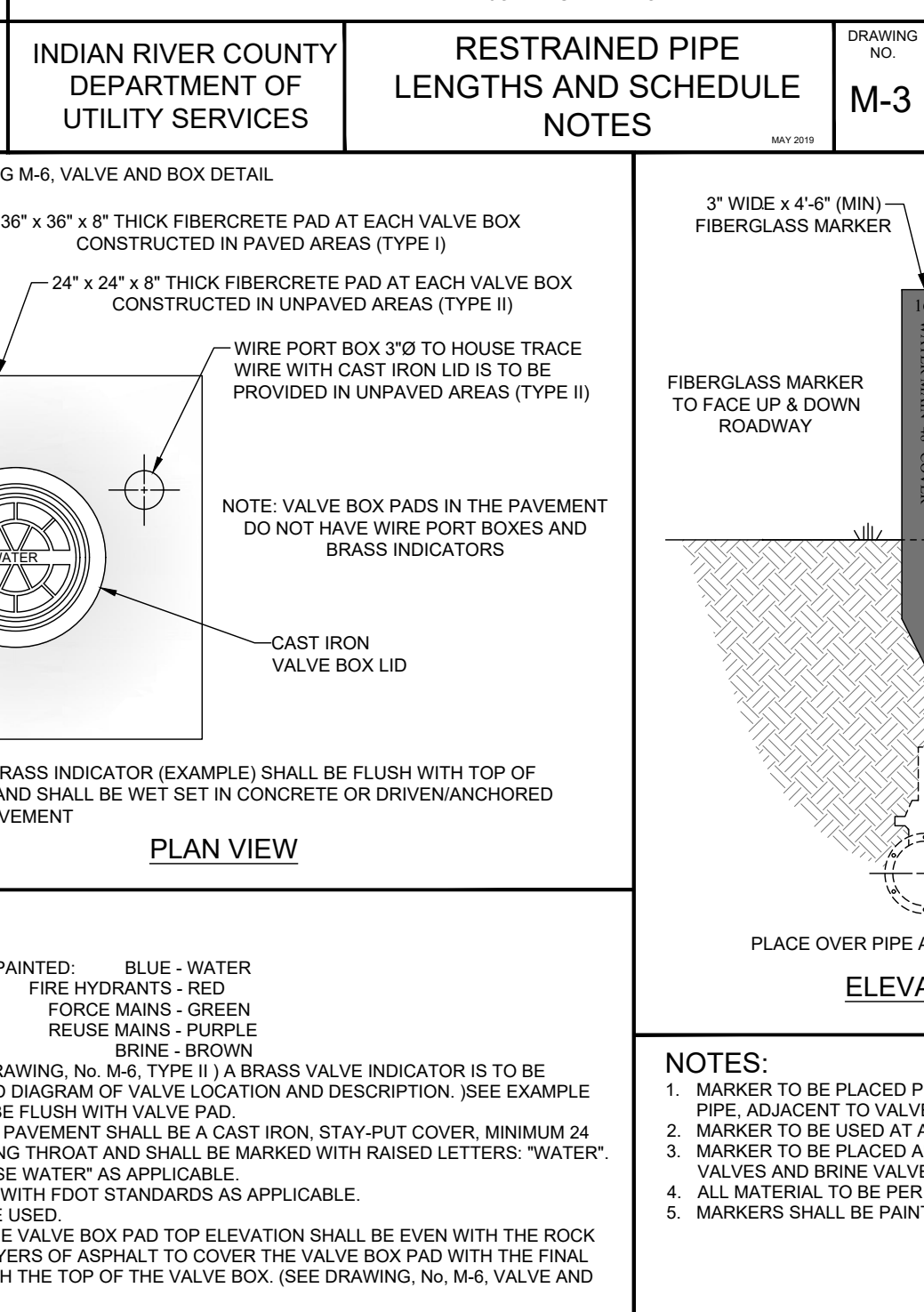
REVISIONS

NO.	DATE	DESCRIPTION
1	01/20/21	ISSUED
2	01/20/21	ISSUED
3	01/20/21	ISSUED
4	01/20/21	ISSUED
5	01/20/21	ISSUED
6	01/20/21	ISSUED
7	01/20/21	ISSUED
8	01/20/21	ISSUED



NOTES:

- VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION.
- ALL VALVE BOXES SHALL BE SHAFT-SCREW TYPE AND CANNOT REST ON THE VALVE.
- ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
- VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCDUS. (SEE DRAWING, No. M-10, VALVE MARKER)
- ALL VALVES REQUIRE STATE PLANE COORDINATES.
- TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)
- BLUE REFLECTIVE MARKERS (RPMs) ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)
- REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES.
- VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.
- VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
- VALVE EXTENSIONS OVER 36" REQUIRE IRCDUS ENGINEERING APPROVAL.
- VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM.



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

VALVE AND BOX DETAIL

DRAWING NO. M-6

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

VALVE AND BOX DETAIL NOTES

DRAWING NO. M-6 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

VALVE BOX PAD

DRAWING NO. M-7

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

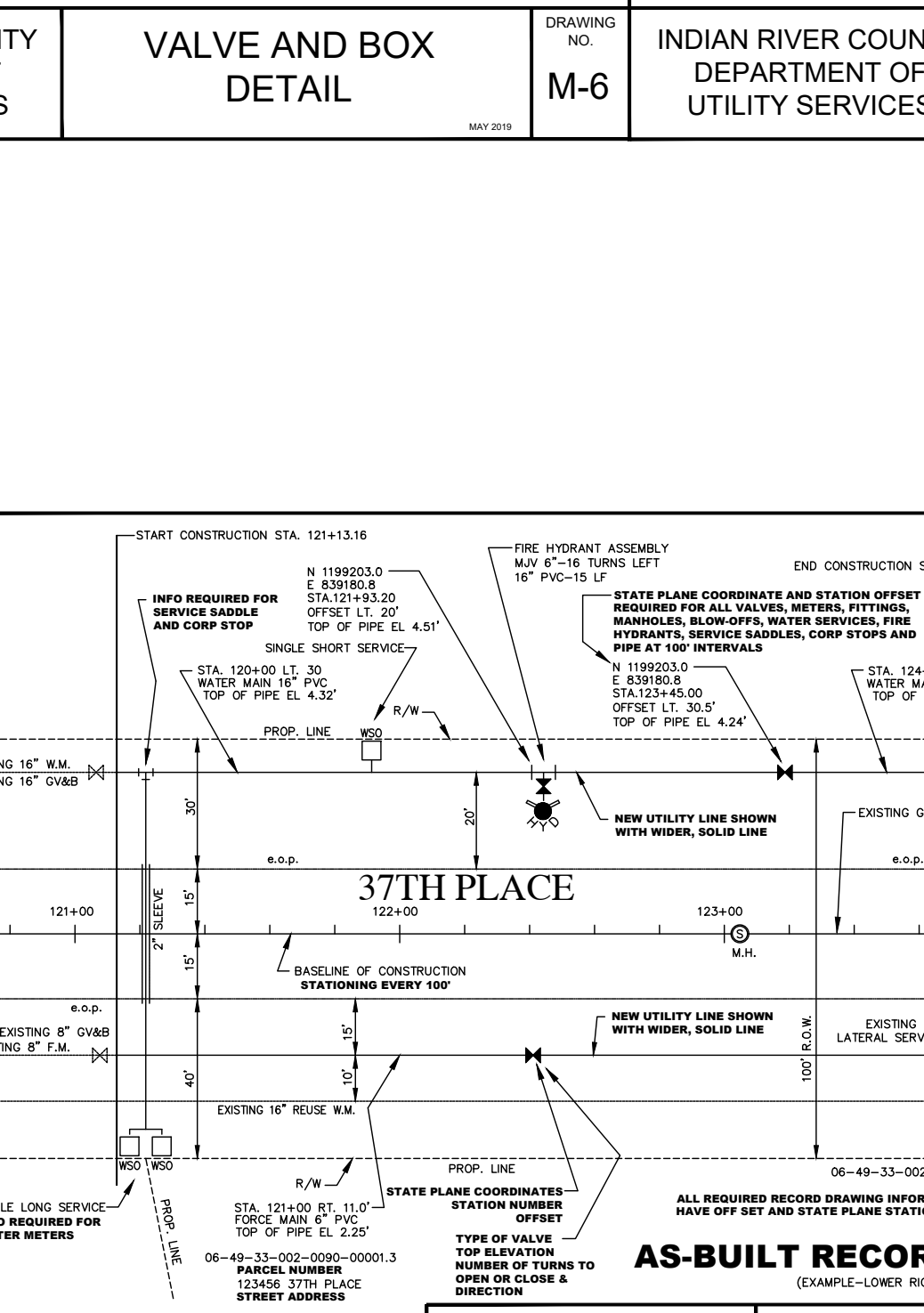
VALVE MARKER

DRAWING NO. M-10

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TRACE WIRE DETAILS

DRAWING NO. M-14



GENERAL NOTES

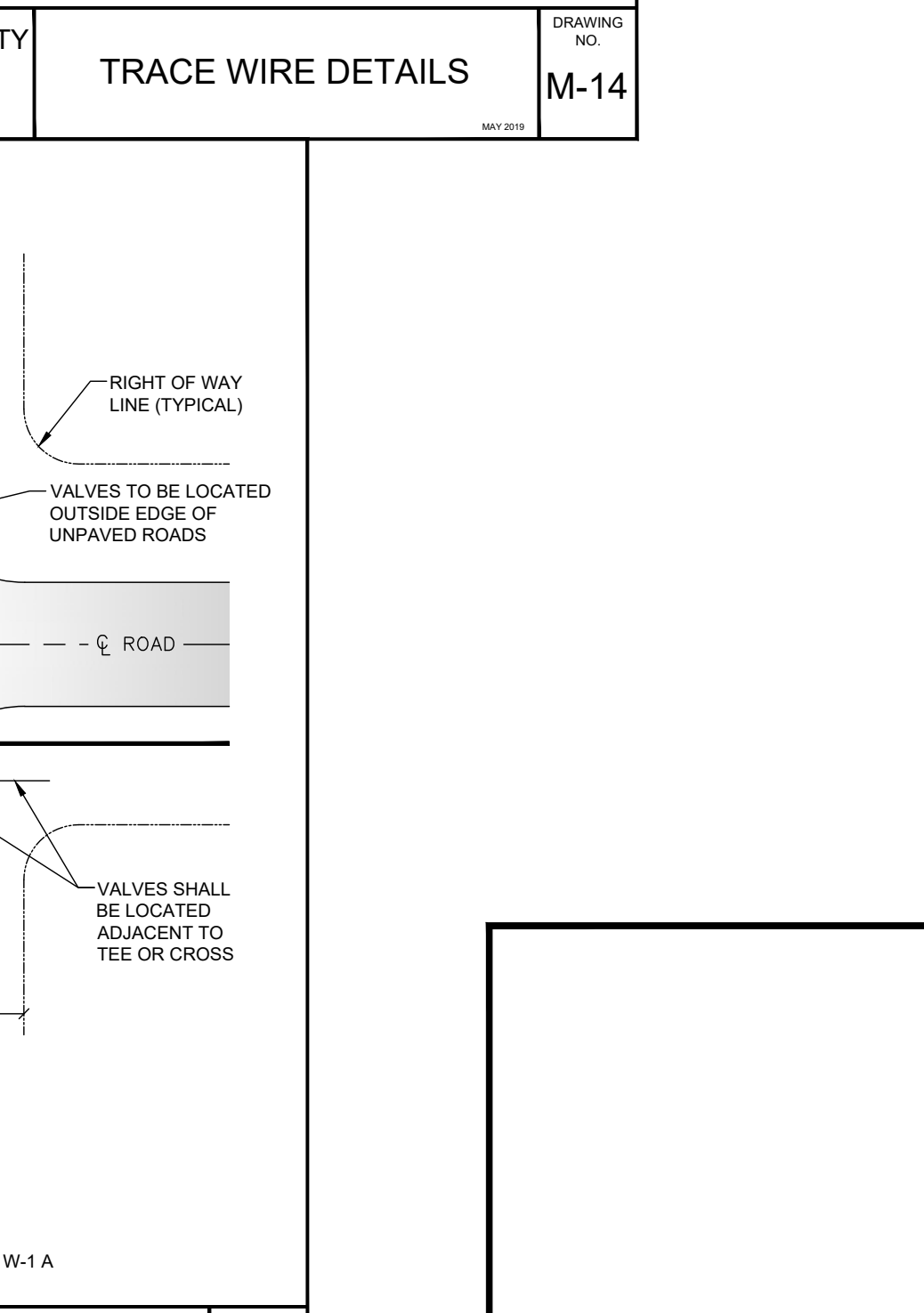
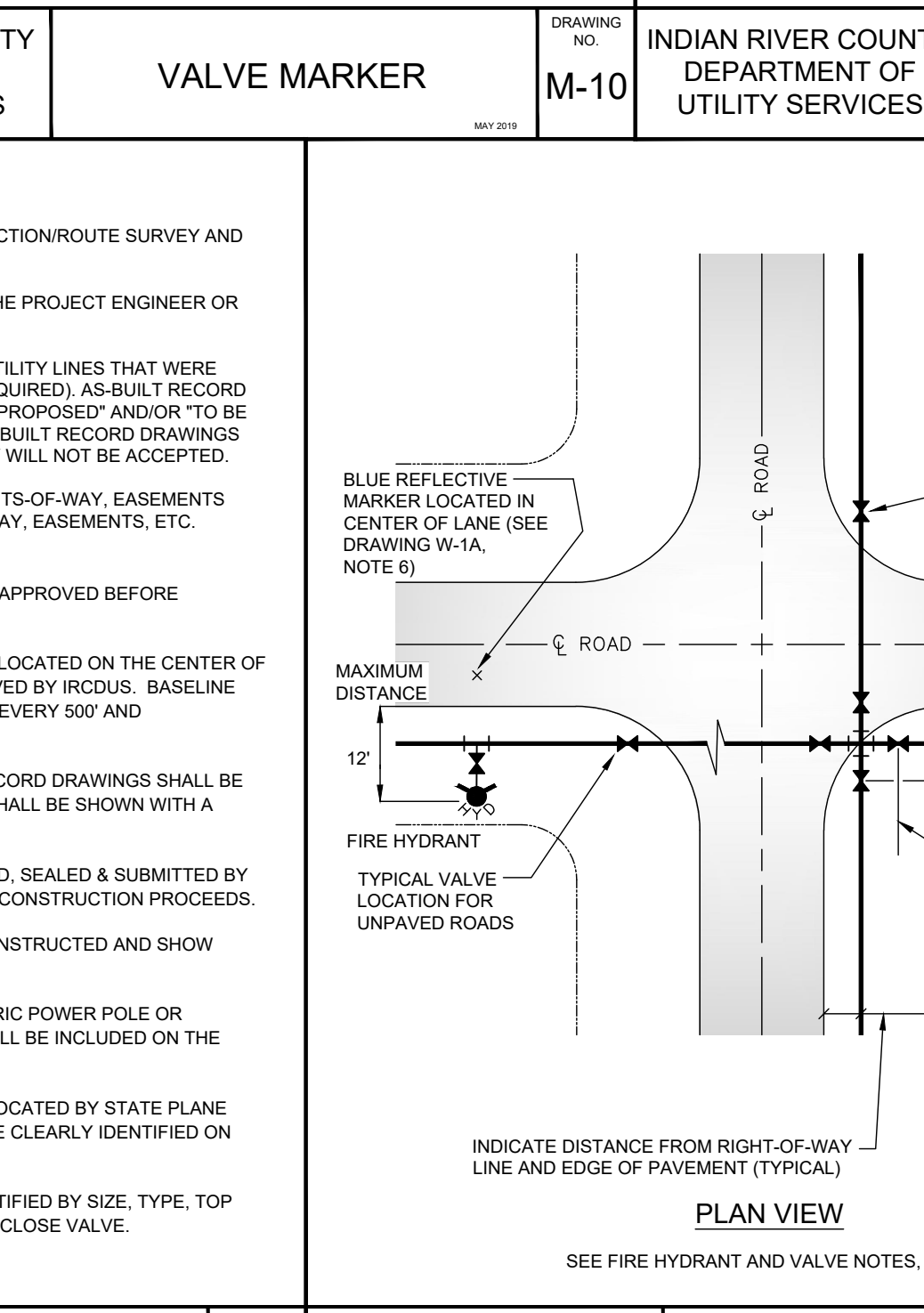
- ALL AS-BUILT RECORD DRAWINGS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CHAPTER AJ-17, FLORIDA ADMINISTRATION CODE PURSUANT TO SECTION 472 OF THE FLORIDA STATUTES.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE IN STATE PLANE COORDINATES. STATE PLANE COORDINATES SHALL BE BASED ON THE FLORIDA STATE PLANE HORIZONTAL DATA (EAST ZONE), OR FLORIDA HIGH PRECISION GEODETIC NETWORK (SUPERSTATION) AND NAD 83/1999 - FINAL ADJUSTMENT, OR THE MOST CURRENT DATUM ADOPTED BY INDIAN RIVER COUNTY.
- FLORIDA STATE PLANE HORIZONTAL DATA AND STATION OFF-SET SHALL BE TIED TO VALVES, METERS, FITTINGS, MANHOLES, BLOW-OFFS, WATER SERVICES, FIRE HYDRANTS, SERVICE SADDLES, CORP STOPS AND PIPE (PIPE AT 200' INTERVALS).
- ALL ELEVATIONS SHOWN SHALL BE BASED ON 1988 NAVD (NORTH AMERICAN VERTICAL DATUM).
- ALL AS-BUILT RECORD DRAWINGS SHALL BE TIED TO A MINIMUM OF ONE (1) PERMANENT REFERENCE MONUMENT (P.R.M.) AT THE END OF EACH PROJECT. ONE P.R.M. SHALL BE TIED TO A MINIMUM OF ONE (1) SECTION CORNER OR ONE-QUARTER (1/4) SECTION CORNER WHICHEVER IS CLOSEST TO THE PROJECT. STATE PLANE COORDINATES SHALL BE PHYSICALLY SHOWN ON THE DRAWING NEXT TO THE P.R.M. USED.
- HORIZONTAL CONTROL MONUMENTATION FOR UTILITY LINES SHALL BE A MINIMUM OF TWO (2) POINTS AT A MAXIMUM OF 1,400 FEET BETWEEN POINTS AND SHOWN ON ALL PLANS.
- VERTICAL CONTROL (WHEN REQUIRED) FOR LINEAR UTILITY LINES, SUCH AS WATER AND SEWER, SHALL HAVE A MAXIMUM OF 1,100 FEET BETWEEN EXISTING CONSTRUCTION OR ESTABLISHED BENCHMARKS.
- PRIOR TO SUBMITTING THE ELECTRONIC COPY, ONE (1) COPY OF EACH AS-BUILT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- AFTER ALL APPROVALS, ALL INCOMING RECORD DRAWINGS SHALL BE RECEIVED ON A CD AS AN ELECTRONIC COPY, AUTOCAD 2015 OR LATEST VERSION, WITH A TIE TO A MINIMUM OF (2) TWO STATE PLANE COORDINATES. (1) ONE (24"x36") SIGNED AND SEALED COPY OF EACH AS-BUILT SHALL BE SUBMITTED. ALL RECORD DRAWINGS SHALL STATE IN 1/2" LETTERING "RECORD DRAWING" AND THE DATUM USED (1/2" LETTERING) IN THE LOWER RIGHT HAND SIDE OF THE ORIGINAL DRAWING OR COPY ALONG WITH THE AS-BUILT DATE. ALL RECORD DRAWINGS SHALL BE IN A MINIMUM SCALE OF 1"=40'. MINIMUM TEXT SHALL BE 1/8".
- ELECTRONIC COPY OF RECORD DRAWINGS SHALL BE FORMATTED WITH ALL NEWLY CONSTRUCTED IRCDUS UTILITIES IN THE FOLLOWING LAYER STATES:

AUTOCAD LAYER NAME	DATA TO BE CONTAINED IN LAYER
WATER MAIN	WATER MAIN ONLY
WATER FITTINGS	WATER FITTINGS, METERS, VALVES, SERVICES, LATERALS, ETC.
GRAVITY SEWER	GRAVITY SEWER MAIN ONLY
SEWER FORCE MAINS	SEWER FORCE MAIN ONLY
SEWER FITTINGS	SEWER FITTINGS, MANHOLES, SERVICE LATERALS, VALVES, ETC.
R/O CONCRETE	RECLAIMED WATER

GENERAL NOTES

(continued)

- A MINIMUM TEXT SIZE OF 1/8" IS REQUIRED ON ALL CONSTRUCTION/ROUTE SURVEY AND RECORD DRAWINGS.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE CERTIFIED BY THE PROJECT ENGINEER OR CONTRACTING SURVEYOR.
- ALL AS-BUILT RECORD DRAWINGS SHALL CLEARLY DEPICT UTILITY LINES THAT WERE CONSTRUCTED ALONG THEIR RESPECTIVE EASEMENT (IF REQUIRED). AS-BUILT RECORD DRAWINGS WILL NOT BE ACCEPTED UNLESS THE VERBAGE "PROPOSED" AND/OR "TO BE CONSTRUCTED" HAVE BEEN DELETED ON THE DRAWING. AS-BUILT RECORD DRAWINGS WITH "PROPOSED" OR "TO BE CONSTRUCTED" TERMINOLOGY WILL NOT BE ACCEPTED.
- ALL NEW UTILITY CONSTRUCTION LOCATED WITHIN THE RIGHTS-OF-WAY, EASEMENTS AND ALIKS SHALL BE TIED TO THE RESPECTIVE RIGHTS-OF-WAY, EASEMENTS, ETC. EVERY 1,000 FEET AND CHANGE OF DIRECTION.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE COMPLETE AND APPROVED BEFORE COMMENCEMENT OF FIELD TEST.
- BASILINE OF CONSTRUCTION AND STATION OF ITEMS TO BE LOCATED ON THE CENTER OF THE ROADWAY, UNLESS CONDITIONS WARRANT AND APPROVED BY IRCDUS. BASILINE STATIONING SHALL BE EVERY 100', CONTROL POINTS SET AT EVERY 500' AND ANGLE CHANGE OF DIRECTION.
- ALL NEW UTILITY CONSTRUCTION LINES ON ALL AS-BUILT RECORD DRAWINGS SHALL BE SHOWN WITH A WIDER, SOLID LINE EXISTING UTILITY LINES SHALL BE SHOWN WITH A THINNER, DASHED LINE.
- TOP OF PIPE ELEVATIONS & STATIONING TO BE TYPED, LISTED, SEALED & SUBMITTED BY THE ENGINEER FOR LOCATING THE AIR RELEASE VALVES AS CONSTRUCTION PROCEEDS.
- SHOW TOP ELEVATION OF THE UTILITY LINES THAT WERE CONSTRUCTED AND SHOW EXISTING UTILITY LINES FOR ALL UTILITY CROSSINGS.
- PUMP STATION POWER SUPPLY FROM FR&I OR COVB ELECTRIC POWER POLE OR TRANSFORMER TO THE PUMP STATION ELECTRICAL PANEL SHALL BE CLEARLY IDENTIFIED ON AS-BUILT RECORD DRAWING.
- ALL FIRE HYDRANTS AND FIRE HYDRANT VALVES SHALL BE LOCATED BY STATE PLANE COORDINATES, STATION NUMBER AND OFFSET AND SHALL BE CLEARLY IDENTIFIED ON AS-BUILT RECORD DRAWING.
- ALL NEWLY CONSTRUCTED VALVES SHALL BE CLEARLY IDENTIFIED BY SIZE, TYPE, TOP ELEVATION AND DIRECTION/NUMBER OF TURNS TO OPEN OR CLOSE VALVE.



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

FIRE HYDRANT AND VALVE LOCATIONS

DRAWING NO. W-1

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

GENERAL NOTES

DRAWING NO. M-16 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

AS-BUILT RECORD DRAWING (EXAMPLE)

DRAWING NO. M-15

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

AS-BUILT RECORD DRAWING (EXAMPLE)

DRAWING NO. M-16

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

AS-BUILT RECORD DRAWING (EXAMPLE)

DRAWING NO. M-16 A

72 HOURS BEFORE DIGGING CALL TOLL FREE 811 Know what's below. Call before you dig.

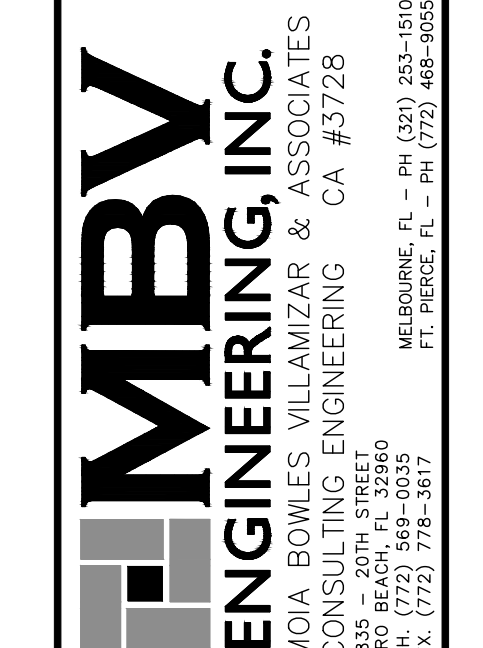
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

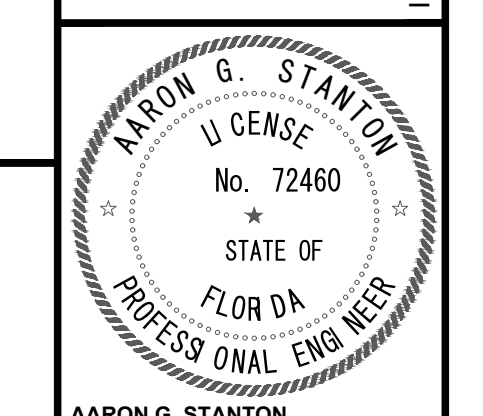
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES



UTILITY DETAILS

HALLSTROM FARMSTEAD CONSERVATION AREA



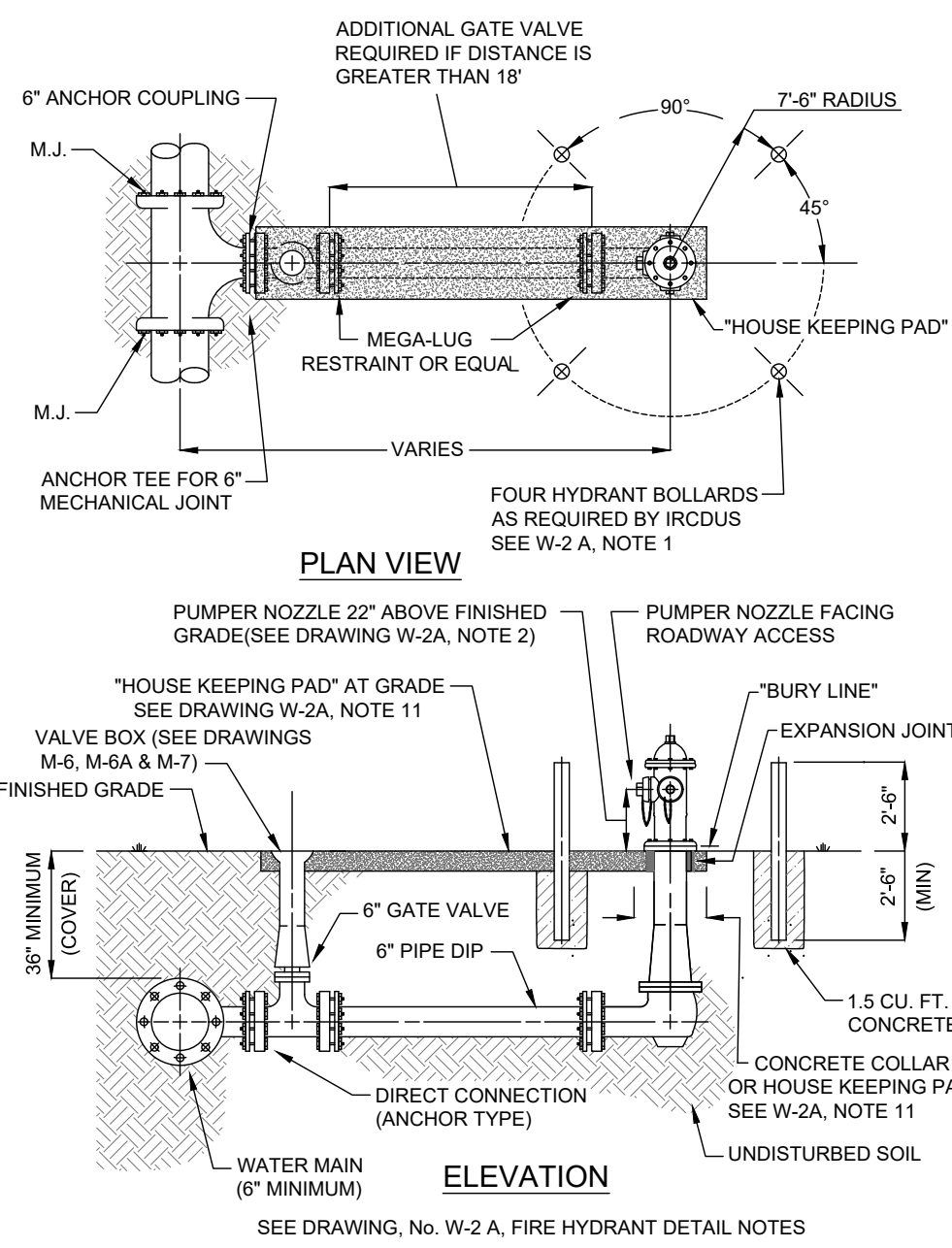
AARON G. STANTON
FL. P.E. #72460

SHEET
C12

20-0240

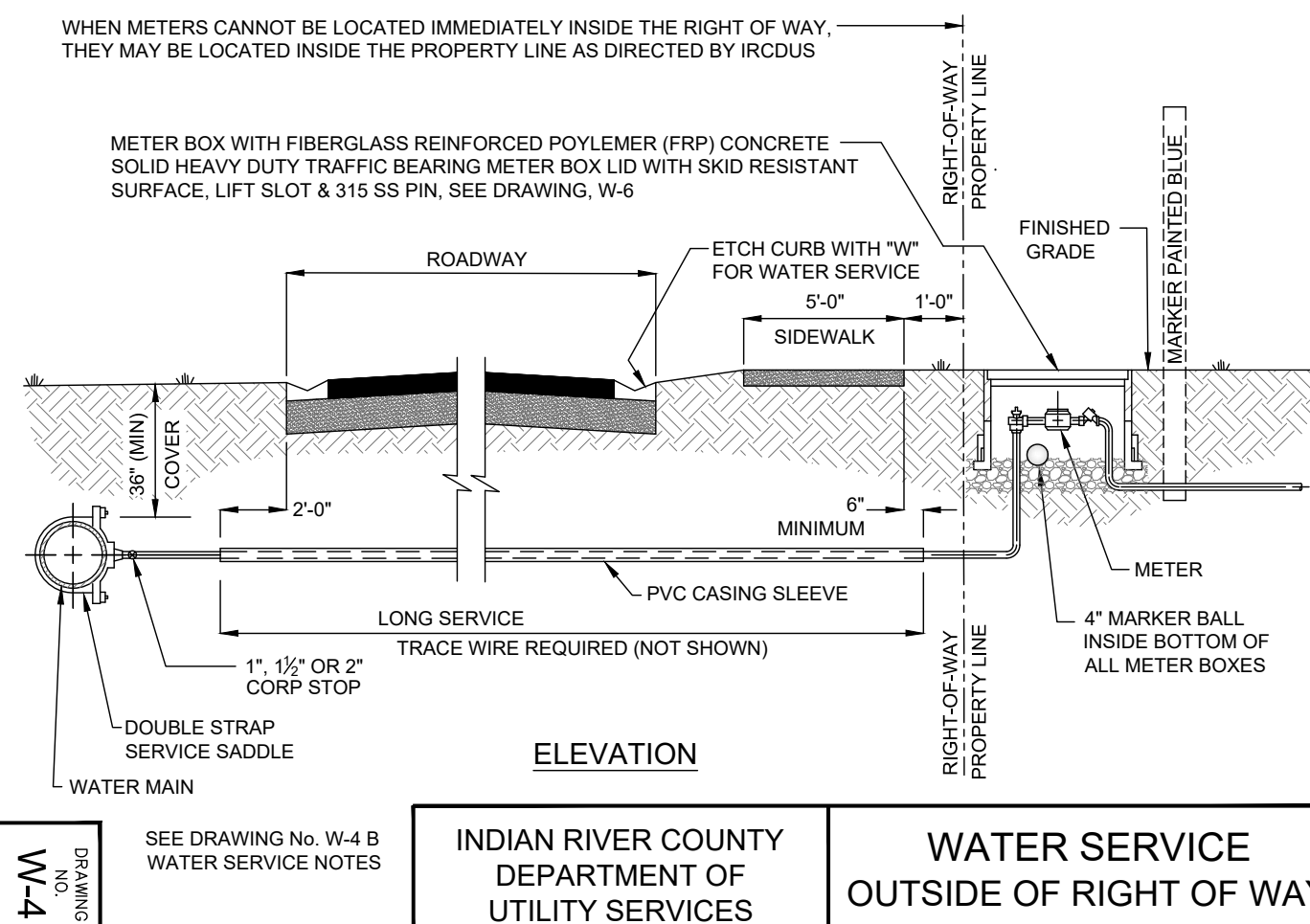
NOTES:

1. VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1000'.
2. A MINIMUM COVER OF 36" IS REQUIRED ABOVE THE TOP OF ALL PIPE BELLS.
3. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF BLUE REFLECTIVE MARKERS (RPM) INDICATING A FIRE HYDRANT. BLUE REFLECTIVE MARKER SHALL BE LOCATED IN THE CENTERLINE OF THE LANE CLOSEST TO THE HYDRANT. DEAD END LINES, VALVES, AND HYDRANTS SHALL BE RESTRAINED.
4. ALL LINES SHALL BE A MINIMUM 10' OFFSET FROM BUILDINGS.
5. REFLECTIVE MARKER (RPM'S) FOR FIRE HYDRANTS SHALL BE BLUE.
6. REFLECTIVE MARKERS SHALL BE AFFIXED TO PAVEMENT WITH A FDOT APPROVED PRODUCT.
7. SEE DRAWINGS, No. M-6, VALVE AND BOX & M-7, VALVE BOX PAD.
8. ALL FIRE HYDRANT VALVE COVERS SHALL BE PAINTED RED. ALL IN-LINE VALVE COVERS SHALL BE PAINTED BLUE.



NOTES:

1. HYDRANT BOLLARD TO BE 4" DIAMETER GALVANIZED STEEL OR DUCTILE IRON PIPE FILLED WITH CONCRETE WHEN REQUIRED BY IRCUDS. GUARDS TO BE PAINTED RED, SAME AS HYDRANTS AND VALVE COVER.
2. THE HYDRANT SHALL BE SET SUCH THAT THE "BURY LINE" ON THE HYDRANT BARREL IS SET AT FINISHED GRADE OR THAT THE OPERATING NUT OF THE PUMPER NOZZLE IS A MINIMUM OF 22" ABOVE FINISHED GRADE.
3. ALL HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE.
4. COMPLETE ANCHORED FIRE HYDRANT ASSEMBLY MAY BE UTILIZED IN LIEU OF ABOVE.
5. FIRE HYDRANT SHOULD BE LOCATED A MINIMUM 3' AND MAXIMUM 12' FROM EDGE OF PAVEMENT WHERE POSSIBLE.
6. ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
7. TRACE WIRE TO BE INSTALLED AS PER DRAWING, No. M-14, TRACE WIRE DETAIL. (FOR CLARITY THE TRACE WIRE IS NOT SHOWN IN DRAWING, No. W-2, FIRE HYDRANT DETAILS).
8. MAINTAIN CLEAR ZONE RADIUS OF 7'-6" AROUND HYDRANT PERPENDICULAR TO ROADWAY OR CURB FACE (EXAMPLE MUST BE CLEAR OF SIGNS, TREES, SHRUBS, TRANSFORMERS, UTILITY POLES, ETC.)
9. HYDRANTS AND PROTECTION DEVICES SHALL HAVE CLEARANCES OF 7'-6" IN FRONT AND THE SIDES OF THE FIRE HYDRANT, WITH A 4" MINIMUM CLEARANCE TO THE REAR OF THE HYDRANT UNLESS THE AHJ (AUTHORITY HAVING JURISDICTION) REQUIRES A LARGER CLEAR ZONE.
10. SEE DRAWINGS, No. M-6 VALVE AND BOX DETAIL, M-6A VALVE AND BOX DETAIL NOTES AND M-7 VALVE BOX PAD.
11. HOUSE KEEPING PAD IS REQUIRED. HOUSE KEEPING PAD SHALL BE 6" THICK x 2' WIDE (MINIMUM) AND LOCATED AT FINISHED GRADE. BREAKAWAY FLANGES SHALL BE 2" ABOVE HOUSEKEEPING PAD. (SEE DRAWING, No. W-2, FIRE HYDRANT DETAIL).



NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE A MINIMUM OF 18" ON CENTER.
2. ALL SERVICES REQUIRE 36" MINIMUM COVER.
3. MINIMUM SERVICE SIZE SHALL NOT BE LESS THAN 1" Ø. DUAL SERVICES SHALL BE A MINIMUM OF 1 1/2" Ø. TRIPLE SERVICES SHALL BE 1" MINIMUM OF 2" Ø. QUADRUPLE SERVICES SHALL BE APPROVED BY IRCUDS.
4. 1" Ø & 1 1/2" Ø LONG SERVICES REQUIRE A 2" MINIMUM I.D. CASING SLEEVE. 2" Ø LONG SERVICES REQUIRE A 3" MINIMUM CASING SLEEVE. CASING SLEEVE SHALL BE SCHEDULE 40 P.V.C.
5. ALL METERS 2" Ø OR SMALLER SHALL BE SUPPLIED AND INSTALLED BY IRCUDS. ALL METERS GREATER THAN 2" Ø SHALL BE SUPPLIED AND INSTALLED BY THE DEVELOPER/PROPERTY OWNER. REFER TO APPROVED MANUFACTURERS' PRODUCT LIST FOR METERS GREATER THAN 2" Ø.
6. PIN LOCKS WITH PLASTIC DUST CAPS SHALL BE PURCHASED BY THE DEVELOPER/AND/OR CONTRACTOR AND SHALL BE INSTALLED ON ALL LOCKING CURB STOPS INSIDE METER BOX, SAMPLING POINTS, AND WATER SERVICE CONNECTIONS AT THE TIME OF ACTIVATING ALL WATER MAINS OR AT SUCH TIME AS DIRECTED BY IRCUDS.
7. CURB STOPS SHALL BE THE SAME SIZE AS THE METERS THAT ARE INSTALLED.
8. TRACE WIRE TO BE INSTALLED AS PER DRAWING, No. M-14, TRACE WIRE DETAILS.
9. PLACE A 4" ELECTRONIC MARKER BALL INSIDE BOTTOM OF ALL METER BOXES.
10. ALL RESIDENTIAL AND ONE ERU SERVICES SHALL BE 5/8" METERS.
11. OPEN BOTTOM AND PRE-PLUMBED (ENCLOSED) METER BOXES ARE ACCEPTABLE.
12. ALL METER BOXES TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
13. AN UNOBSTRUCTED CLEAR ZONE IS REQUIRED AROUND ALL METER BOXES. (SEE DRAWING, No. W-6 A.)

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

FIRE HYDRANT AND VALVE NOTES

DRAWING NO. W-1 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

FIRE HYDRANT DETAIL

DRAWING NO. W-2 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

FIRE HYDRANT DETAIL NOTES

DRAWING NO. W-2 A

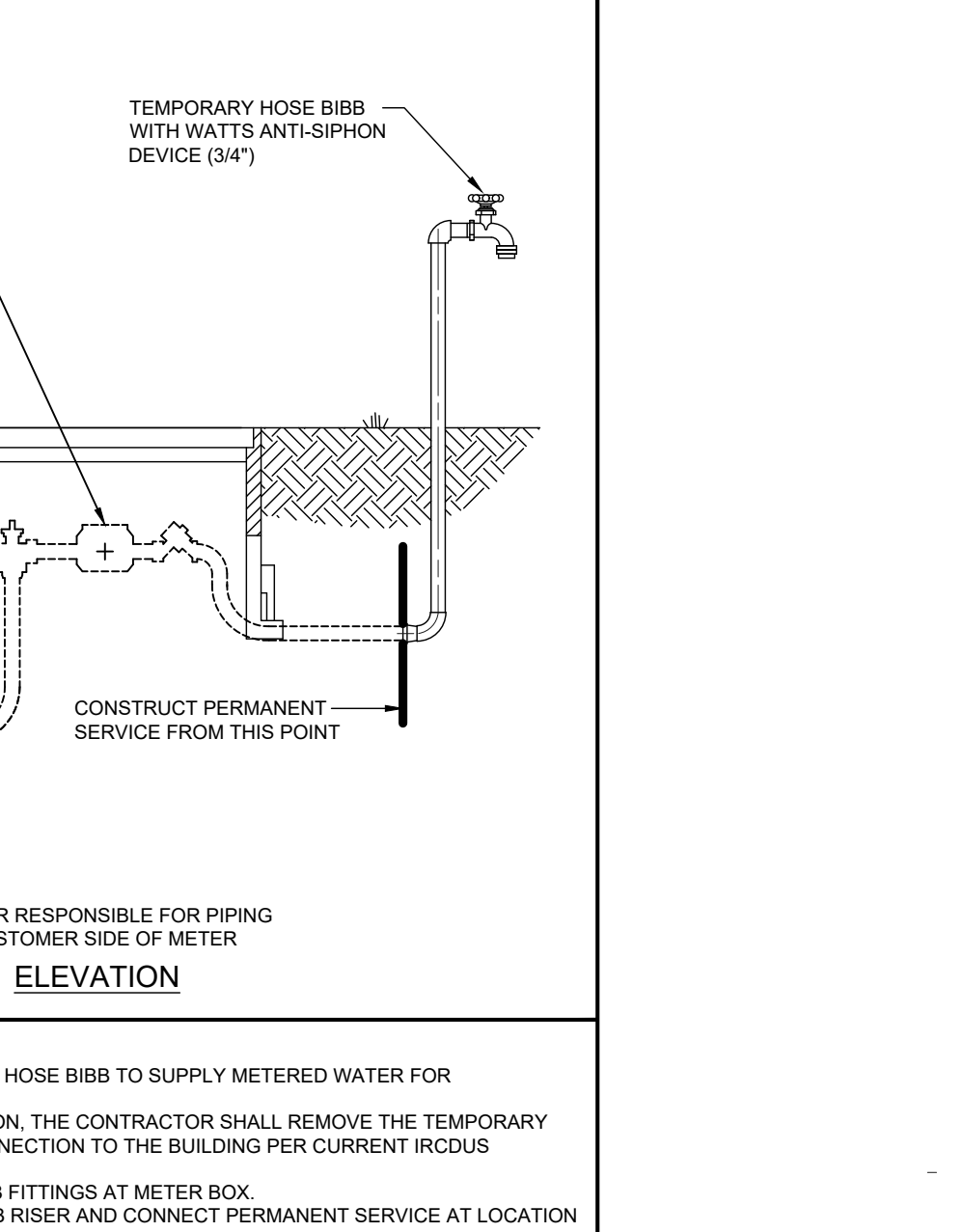
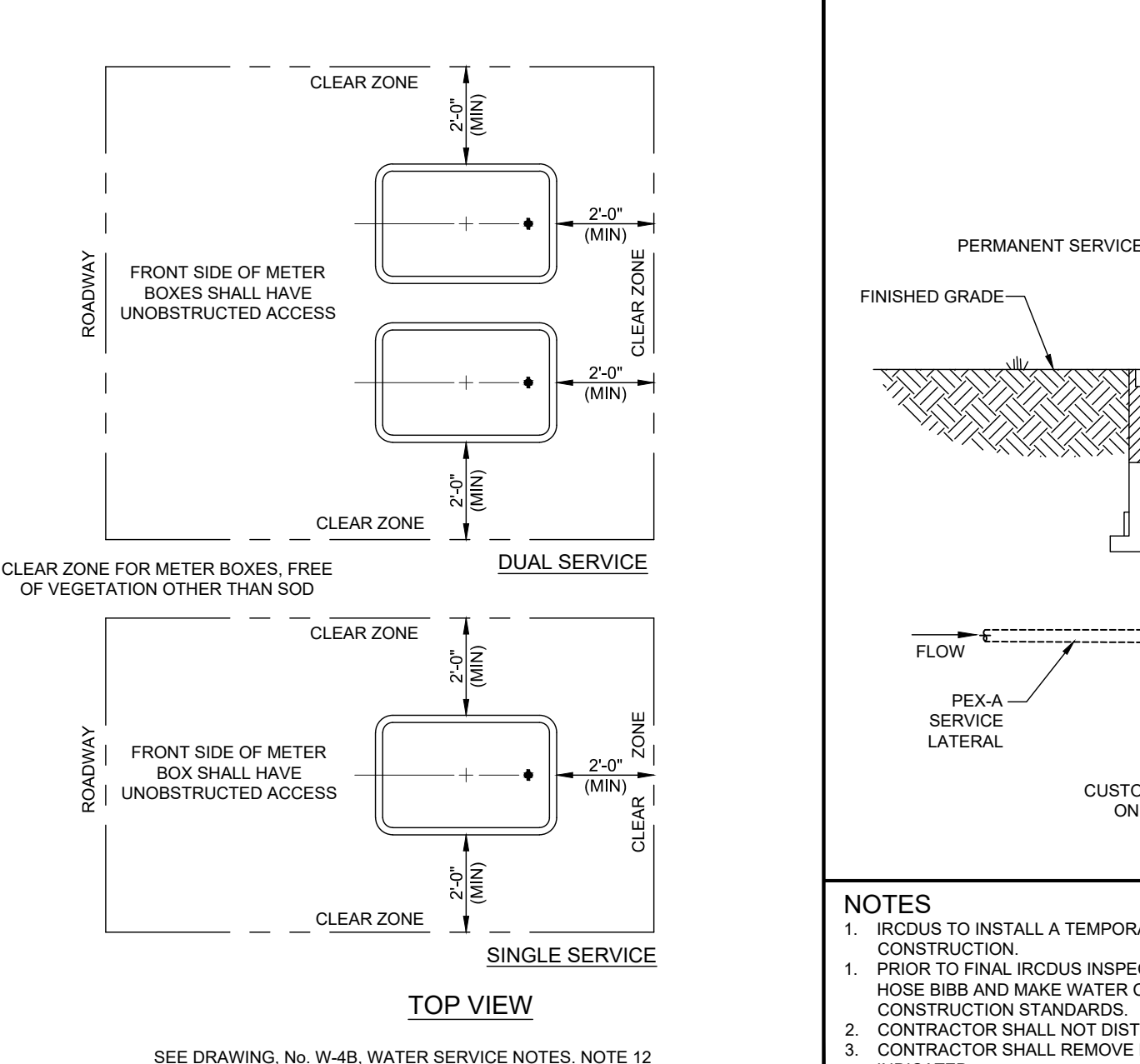
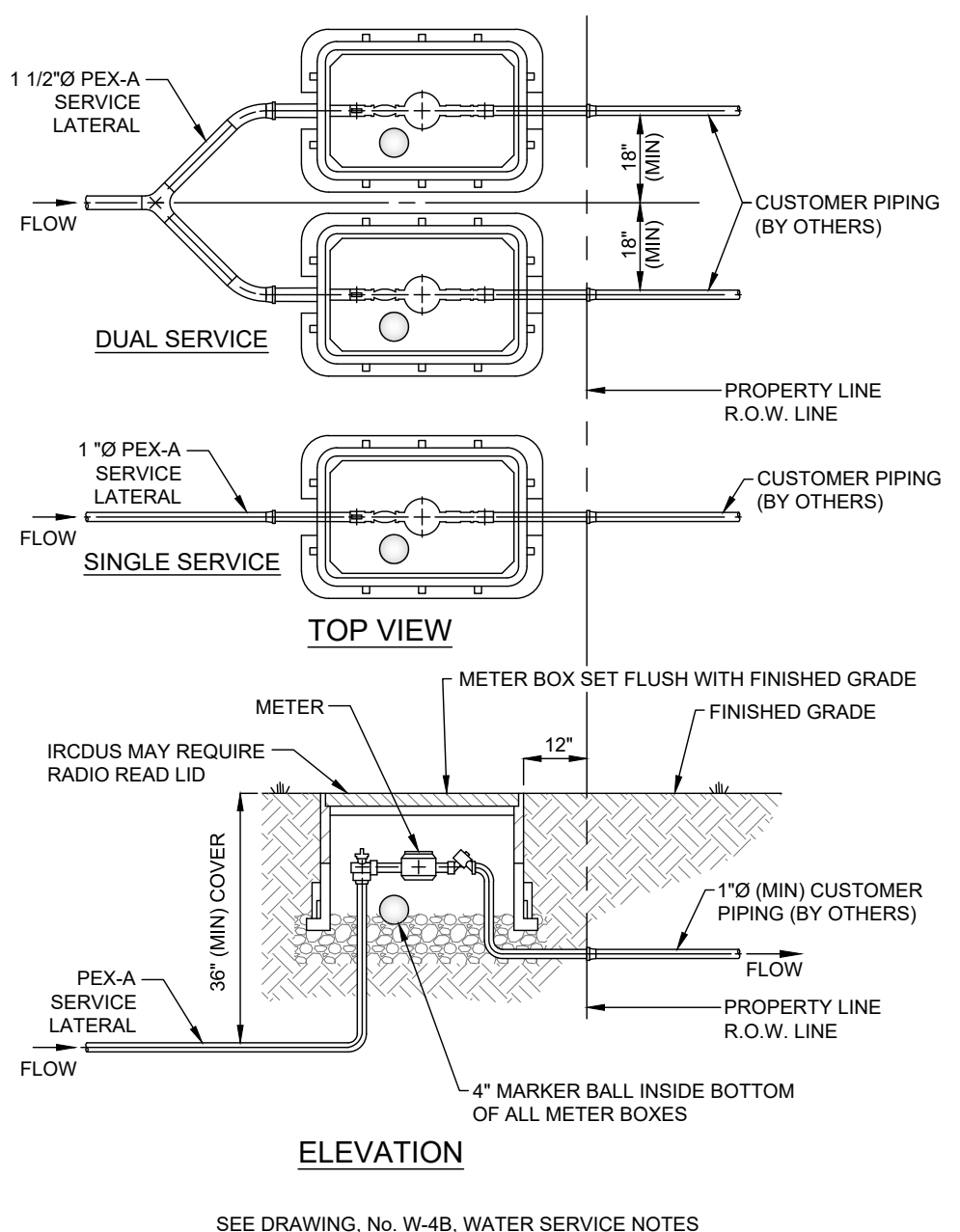
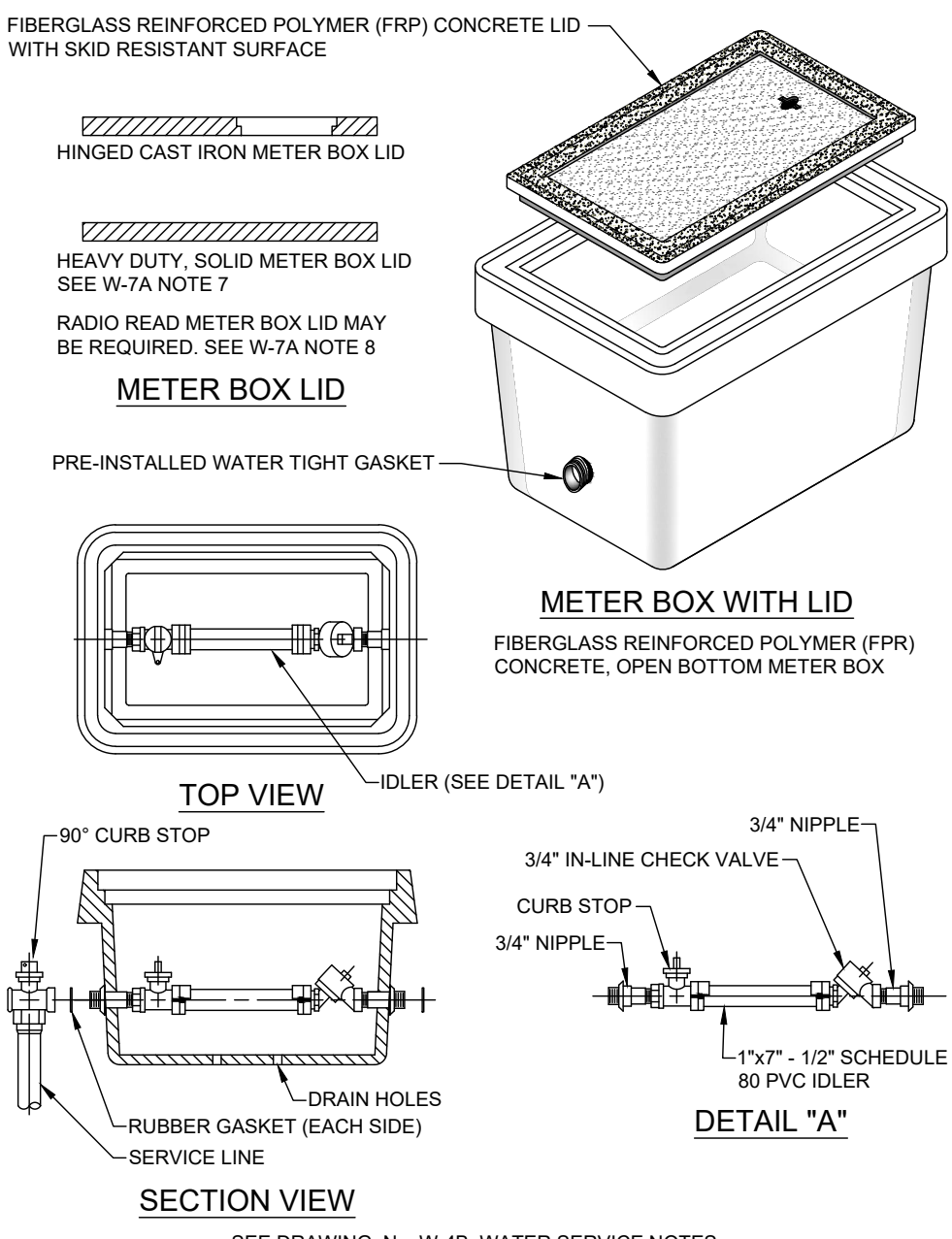
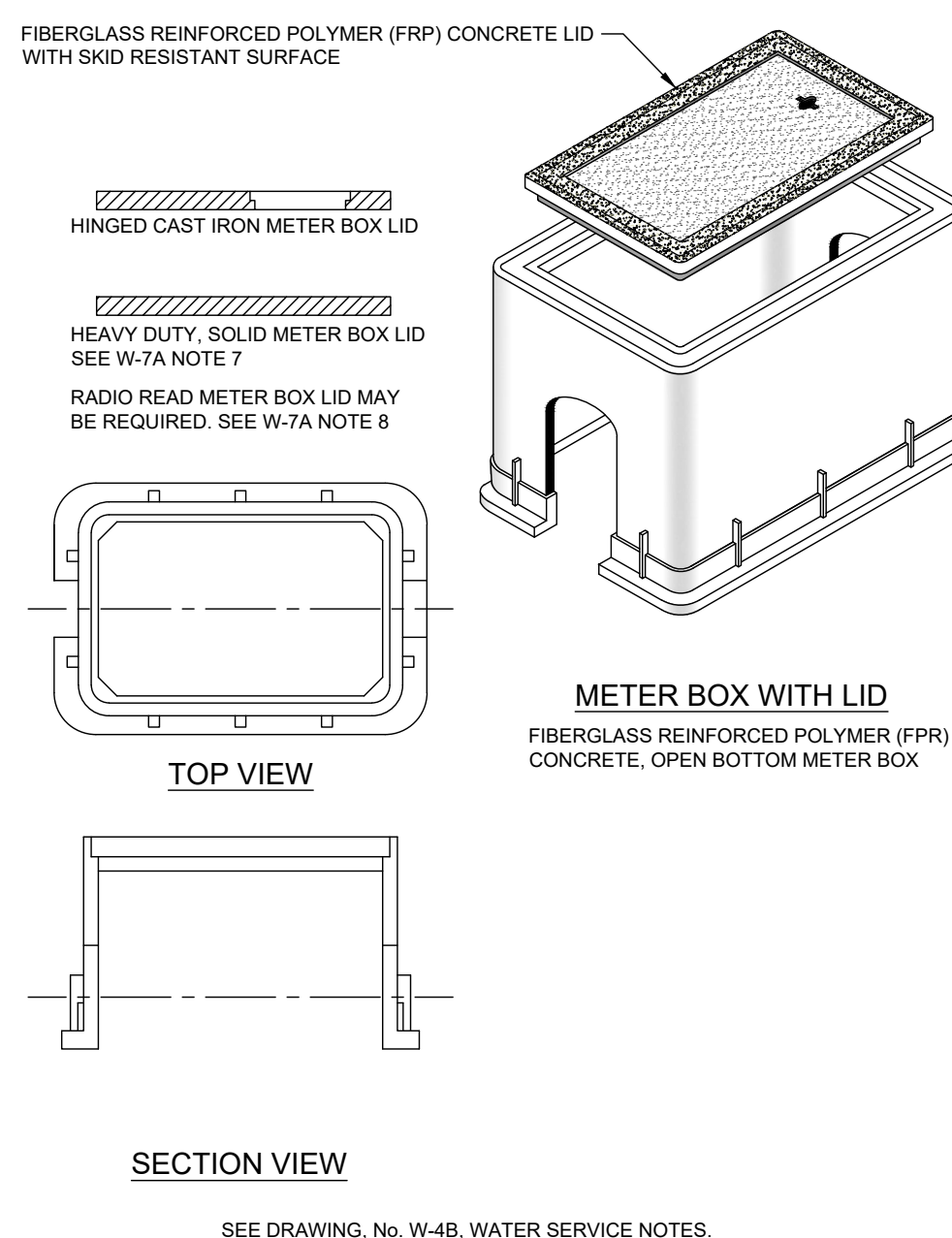
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

WATER SERVICE OUTSIDE OF RIGHT OF WAY

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

WATER SERVICE NOTES

DRAWING NO. W-4 B



- NOTES:**
1. IRCUDS TO INSTALL A TEMPORARY HOSE BIBB TO SUPPLY METERED WATER FOR CONSTRUCTION.
 2. PRIOR TO FINAL IRCUDS INSPECTION, THE CONTRACTOR SHALL REMOVE THE TEMPORARY HOSE BIBB AND MAKE WATER CONNECTION TO THE BUILDING PER CURRENT IRCUDS CONSTRUCTION STANDARDS.
 3. CONTRACTOR SHALL NOT DISTURB FITTINGS AT METER BOX.
 4. CONTRACTOR SHALL REMOVE BIBB RISER AND CONNECT PERMANENT SERVICE AT LOCATION INDICATED.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

METER BOX TYPICAL OPEN BOTTOM

DRAWING NO. W-5

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

METER BOX TYPICAL PRE-PLUMBED (ENCLOSED)

DRAWING NO. W-5 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

METER BOX INSTALLATION

DRAWING NO. W-6

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

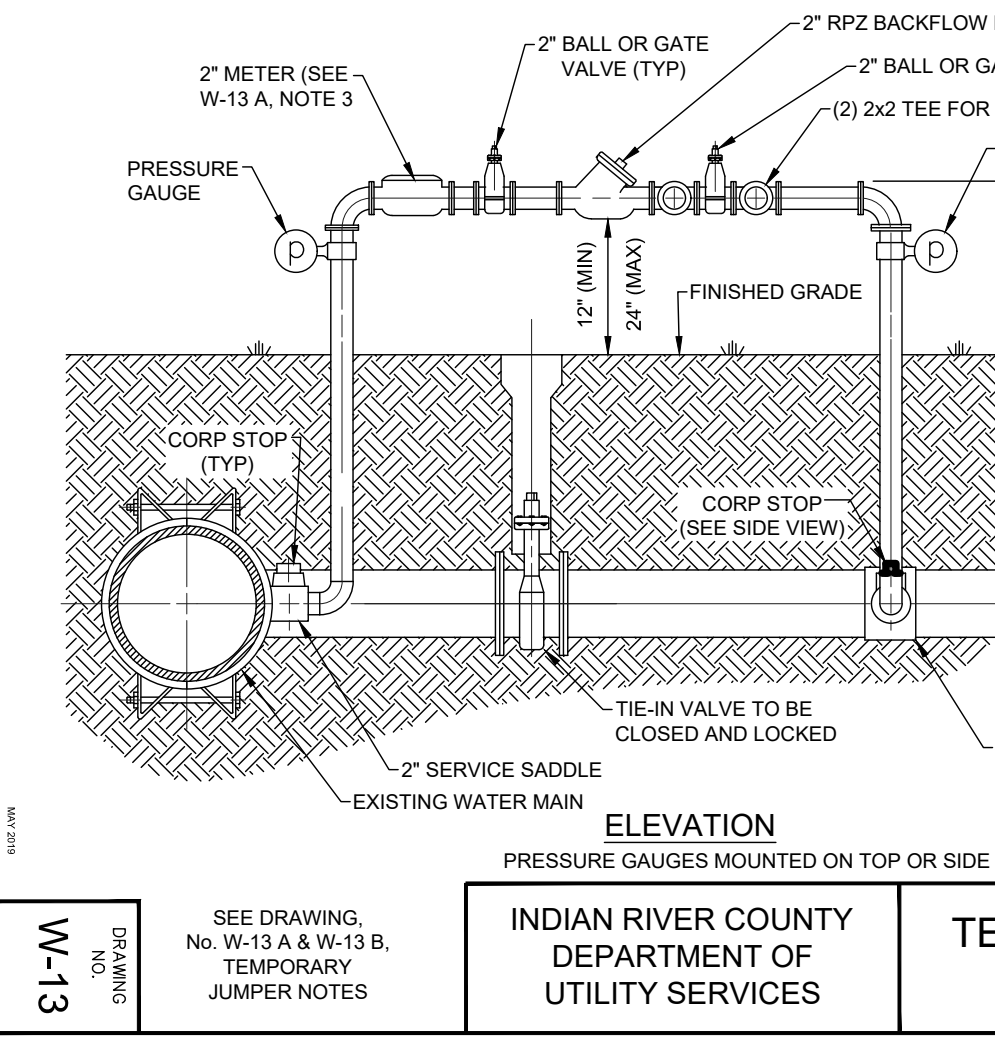
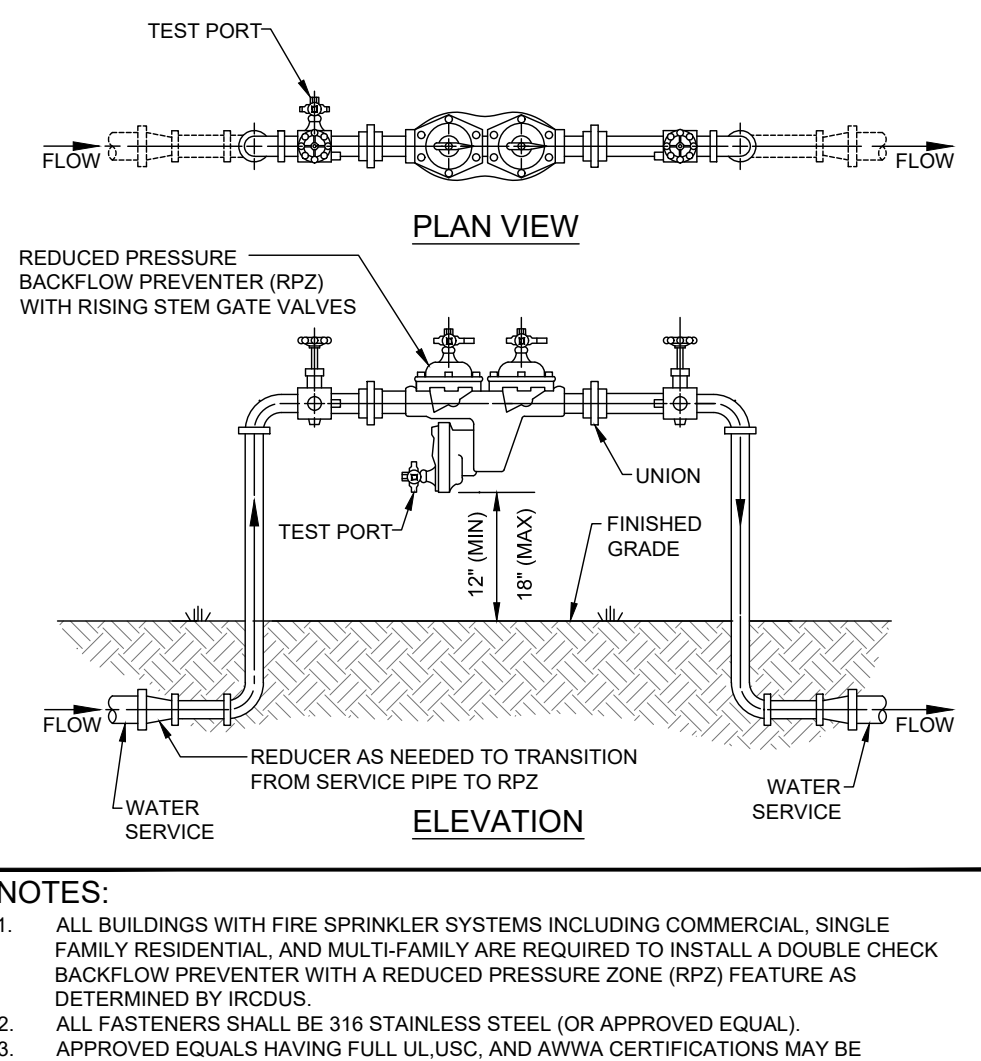
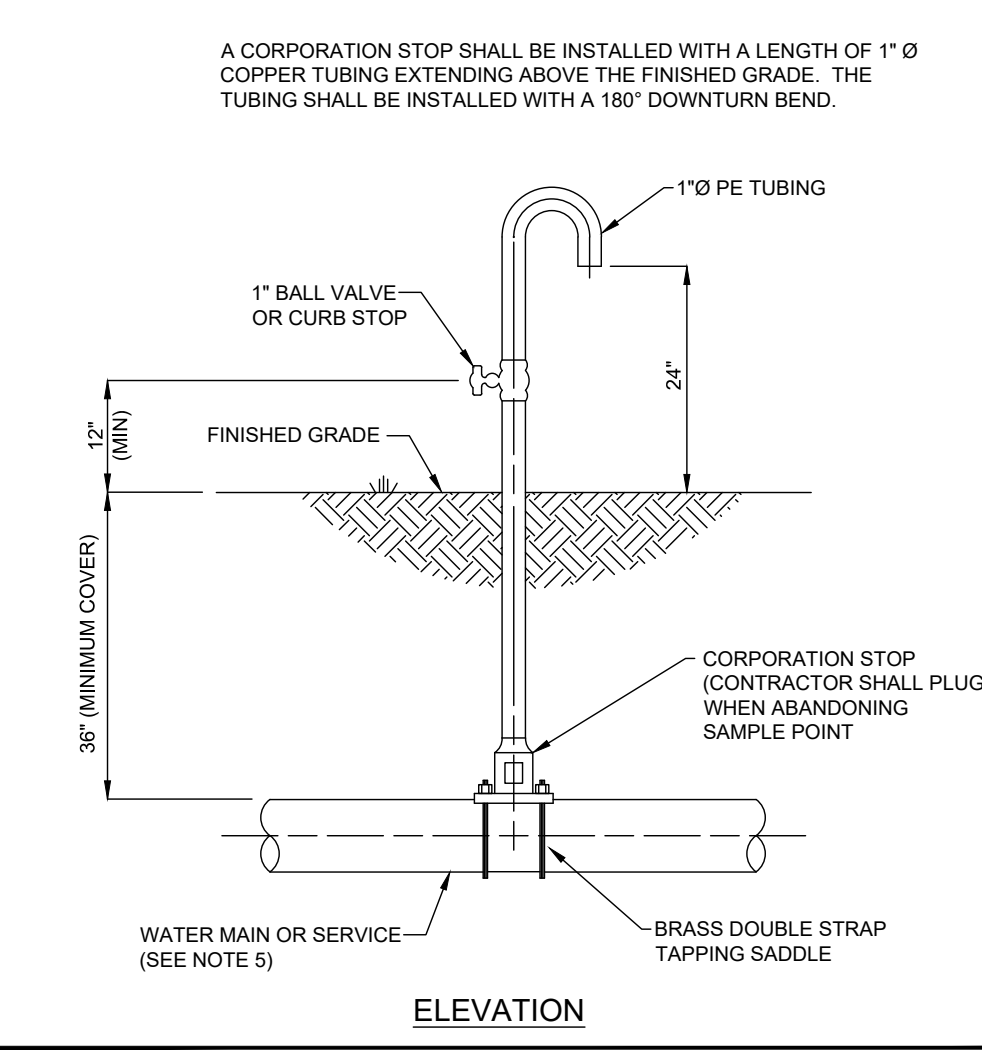
METER BOX ACCESS

DRAWING NO. W-6 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TEMPORARY HOSE BIBB (FOR CONSTRUCTION)

DRAWING NO. W-7



- TEMPORARY JUMPER DETAIL NOTES**
1. A TEMPORARY JUMPER CONNECTION IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM THE EXISTING ACTIVE WATER MAINS AND FOR THE FLUSHING OF NEW MAINS UP TO 6" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE.
 2. TIE-IN VALVE SHALL BE OPERATED BY IRCUDS PERSONNEL ONLY AND IN THE PRESENCE OF THE ENGINEER OF RECORD.
 3. IRCUDS SHALL PROVIDE METER FOR SERVICE AFTER APPLICATION, DEPOSIT AND ALL FEES HAVE BEEN PAID.
 4. A 2" TEMPORARY JUMPER TO BE USED UNLESS OTHERWISE DIRECTED BY IRCUDS.
 5. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 6. ALL MATERIALS TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 7. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED WITH LIQUID CHLORINE (SODIUM HYPOCHLORITE) PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. THE TAPPING SLEEVE AND EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABING PER AWWA C651 SECTION TWO. THE USE OF CHLORINE TABLETS IS STRICTLY PROHIBITED.
 8. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
 9. PRESSURE GAUGES ARE REQUIRED ON EACH SIDE OF THE 2" GATE OR BALL VALVE.
 10. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE RPZ HAS BEEN TESTED BY A QUALIFIED BACKFLOW TECHNICIAN AS APPROVED BY IRCUDS. THE CONTRACTOR SHALL HAVE EACH RPZ TESTED PRIOR TO USE ON EACH PROJECT.
 11. EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 6" DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE FDEP.
 12. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED.
 13. UPON RECEIPT OF CLEARANCE FOR USE BY FDEP, THE CONTRACTOR SHALL REMOVE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS OR PVC PLUGS.

- NOTES:**
1. TEMPORARY SAMPLING POINT SHALL BE CONSTRUCTED USING A SERVICE LINE WHEN POSSIBLE. SCHEDULE 40 PVC OR OTHER MATERIALS CAN BE USED, AS APPROVED BY IRCUDS.
 2. NO SAMPLE POINTS SHALL BE CONSTRUCTED ON FIRE HYDRANTS.
 3. CERTIFICATION OF PRESURE TEST: TWO CONSECUTIVE DAYS OF SUCCESSFUL BACTERIOLOGICAL TESTS, AND CLEARANCE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS REQUIRED BEFORE THE SAMPLE TAP CAN BE ABANDONED.
 4. WHEN SAMPLING IS COMPLETE, TUBING SHALL BE REMOVED AND CORPORATION STOP PLUGGED.
 5. USE A SERVICE FOR A SAMPLE POINT WHEN WHERE POSSIBLE.

- NOTES:**
1. ALL BUILDINGS WITH FIRE SPRINKLER SYSTEMS INCLUDING COMMERCIAL, SINGLE FAMILY RESIDENTIAL, AND MULTI-FAMILY ARE REQUIRED TO INSTALL A DOUBLE CHECK BACKFLOW PREVENTER WITH A REDUCED PRESSURE ZONE (RPZ) FEATURE AS DETERMINED BY IRCUDS.
 2. ALL FASTENERS SHALL BE 316 STAINLESS STEEL (OR APPROVED EQUAL).
 3. APPROVED EQUALS HAVING FULL UL LIST, AND AWWA CERTIFICATIONS MAY BE INSTALLED ONLY AFTER SPECIFIC APPROVAL BY IRCUDS.
 4. SUPPORT BACKFLOW PREVENTER FROM WALL, IF REQUIRED, WITH APPROVED PIPE SUPPORT SYSTEM. PIPE SUPPORT SYSTEM SHALL BE BRASS, COPPER OR D.I.P., AS APPROVED BY IRCUDS.
 5. PIPING 2 1/2" Ø OR GREATER SHALL BE FLANGED DUCTILE IRON PIPE.
 6. ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 7. RPZ'S SHALL BE INSPECTED, CERTIFIED AND REPORTED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE INDIAN RIVER COUNTY CONNECTION CONTROL PROGRAM REQUIREMENTS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TEMPORARY JUMPER DETAIL NOTES

DRAWING NO. W-13 A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TEMPORARY SAMPLING POINT (BACTERIOLOGICAL)

DRAWING NO. W-8

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

REDUCED PRESSURE BACKFLOW PREVENTER RPZ

DRAWING NO. W-11

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

TEMPORARY JUMPER DETAIL NOTES

DRAWING NO. W-13 A



NO.	REVISIONS	DATE
8		
7		
6		
5		
4		
3		
2		
1		

MBV ENGINEERING, INC.
 MOHA BOWLES VILLALBAZAR & ASSOCIATES
 ENGINEERING & ARCHITECTURE
 1800 S. BEACH, P.O. BOX 32860
 MIAMI, FL 33102
 TEL: (305) 953-1510
 FAX: (305) 468-9055

UTILITY DETAILS

HALLSTROM FARMSTEAD CONSERVATION AREA

AARON G. STANTON
 FL. P.E. #72460
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SHEET
C13
 20-0240

SPECIFICATIONS FOR SUBMERSIBLE GRINDER LIFT STATION

1.01 GENERAL

- FURNISH AND INSTALL A PRE-FABRICATED FIBERGLASS DUPLEX SERVICE LIFT STATION. TWO GRINDER PUMPS SHALL BE SUPPLIED TO DELIVER 441 GPM AGAINST A TOTAL HEAD OF 3 FEET TOTAL DYNAMIC HEAD (TDH). THE MOTOR SHALL BE AUTOMATICALLY MARKED WITH THE FOLLOWING INFORMATION: 1 PHASE 60 HERTZ. THE MOTOR SHALL BE AN INTEGRAL PART OF THE PUMPING UNIT. PUMP DISCHARGE SIZE SHALL BE 1.25 INCHES.

1.02 QUALITY ASSURANCE

- UNIT INTEGRITY: THE PUMPS, MOTORS, CONTROL PANEL, ACCESS COVER, AND GUIDE RAIL ASSEMBLIES SHALL BE SUPPLIED BY THE PUMP SUPPLIER TO INSURE UNIT INTEGRITY.
- PHASE TESTS: THE PUMP SUPPLIER SHALL PERFORM THE FOLLOWING TESTS ON EACH PUMP BEFORE SHIPMENT FROM THE SUPPLIER.
 - A MEGGER THE PUMP FOR INSULATION BREAKS OR MOISTURE.
 - INTERNALLY PRESSURIZE THE MOTOR HOUSING TO 5 PSI WITH A HALOGEN GAS. CHECK ALL O-RING MATING SURFACES FOR GAS LEAKS AND LEAKAGE.
 - CHECK VOLTAGE, CURRENT, AND PHASE BALANCE.
 - DYNAMIC BALANCE.
 - A WRITTEN CERTIFIED TEST REPORT GIVING THE ABOVE INFORMATION SHALL BE SUPPLIED WITH EACH PUMP AT THE TIME OF SHIPMENT.
- EACH PUMP CABLE END SHALL BE FITTED WITH A RUBBER SHINK FIT BOOT TO PROTECT CABLE ENDS. GUARANTEED PARTS STOCKING PROGRAM: THE PUMP SUPPLIER SHALL HAVE A GUARANTEED PARTS STOCKING PROGRAM IN THE STATE OF FLORIDA. THESE PARTS SHALL INCLUDE AT LEAST ONE SET OF SPARE PARTS LISTED BELOW FOR EACH PUMP SUPPLIED ON THIS CONTRACT. IF THE PUMP SUPPLIER DOES NOT MEET THIS REQUIREMENT FOR A GUARANTEED STOCK PROGRAM, THE CONTRACTOR SHALL FURNISH THE FOLLOWING SPARE PARTS FOR EACH PUMP:
 - UPPER SEAL
 - LOWER MECHANICAL SEAL
 - CUTTERS
 - MOTOR CABLE
 - BEARING COMPLETE SET OF 2 O-RINGS

1.03 SUBMITTALS

- DESIGN: THE PUMP SUPPLIER SHALL SUBMIT DESIGN SUBMITTALS TO THE ENGINEER. DESIGN SUBMITTALS SHALL INCLUDE AT LEAST THE FOLLOWING:
 - MECHANICAL DIMENSION DRAWINGS, ANCHOR BOLT LAYOUTS, AND WEIGHTS.
 - MECHANICAL DATA ON THE PUMP AND MOTOR MATERIALS OF CONSTRUCTION.
 - MECHANICAL PERFORMANCE CURVES.
 - HYDRAULIC PERFORMANCE CURVES.
 - CONTROL PANEL LAYOUT DRAWINGS, SCHEMATICS, AND BILLS OF MATERIALS.
- CONSTRUCTION: THE PUMP SUPPLIER SHALL SUBMIT CONSTRUCTION SUBMITTALS TO THE ENGINEER. CONSTRUCTION SUBMITTALS SHALL INCLUDE AT LEAST THE FOLLOWING:
 - CONSTRUCTION AND MAINTENANCE MANUALS SHALL BE FURNISHED IN QUANTITIES AS REQUIRED BY THE COUNTY COUNTY. MANUALS SHALL INCLUDE ALL NECESSARY INFORMATION TO INSTRUCT OPERATING AND MAINTENANCE PERSONNEL UNFAMILIAR WITH SUCH EQUIPMENT.

1.04 WARRANTY

THE PUMP MANUFACTURER SHALL WARRANT THE PUMPS BEING SUPPLIED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR UNDER NORMAL USE, OPERATION AND SERVICE. THE MANUFACTURER SHALL FURNISH ANY PARTS, INCLUDING LABOR, TO REPAIR DEFECTS IN WORKMANSHIP OR MATERIALS. DEFECTS FOR A PERIOD OF ONE YEAR. THE WARRANTY SHALL BE IN PUBLISHED FORM AND APPLY TO ALL SIMILAR UNITS.

1.05 PARTS

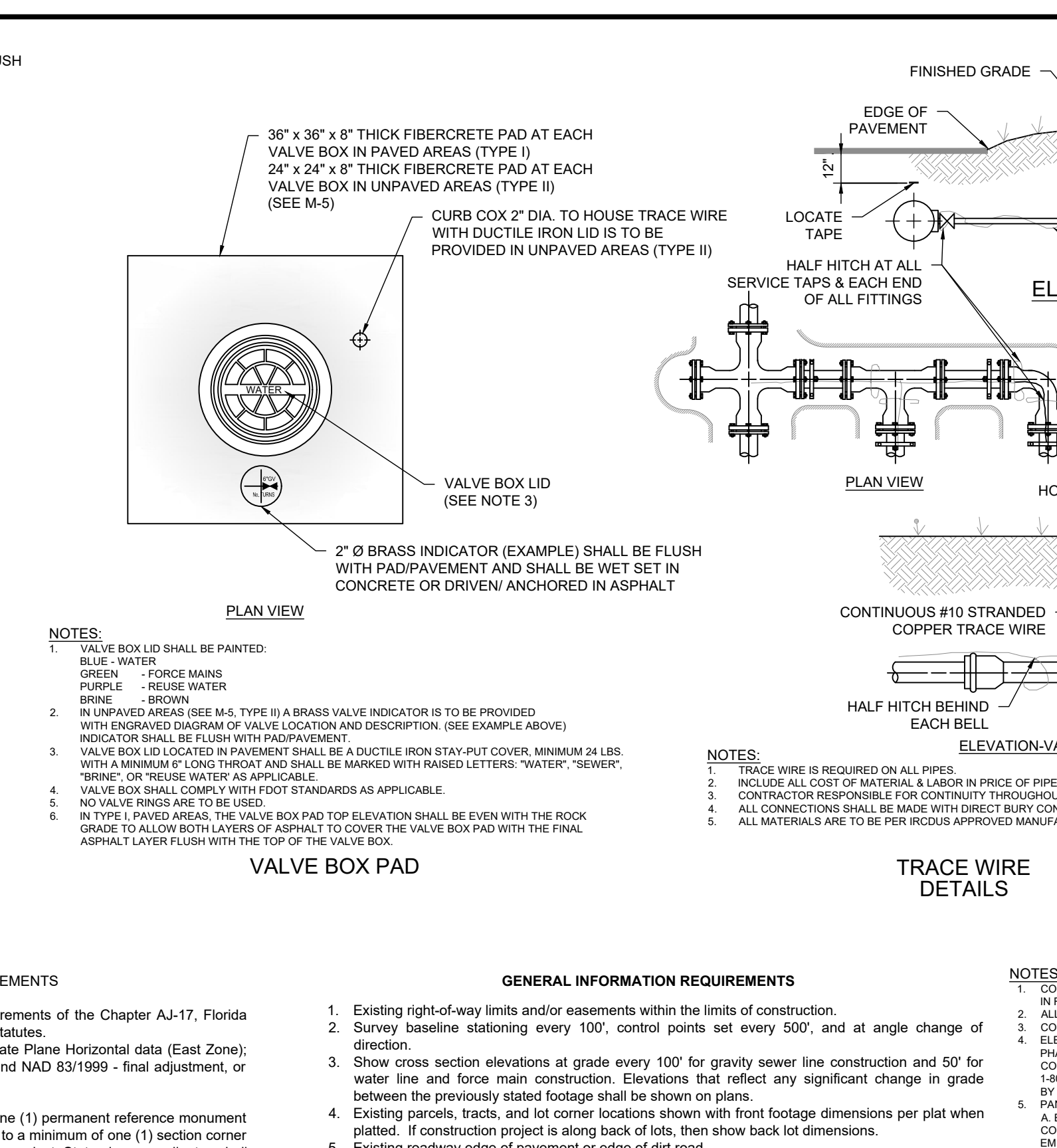
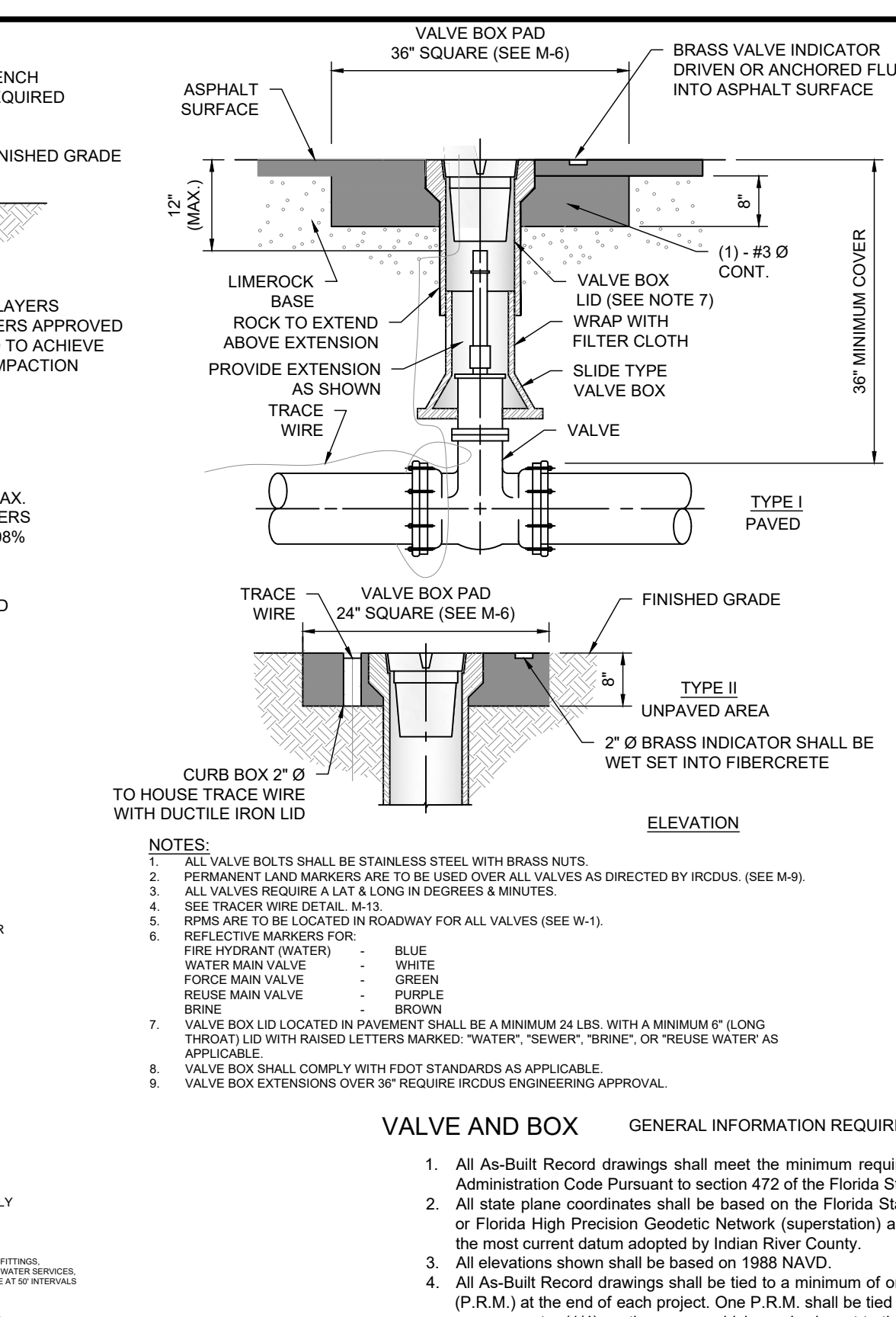
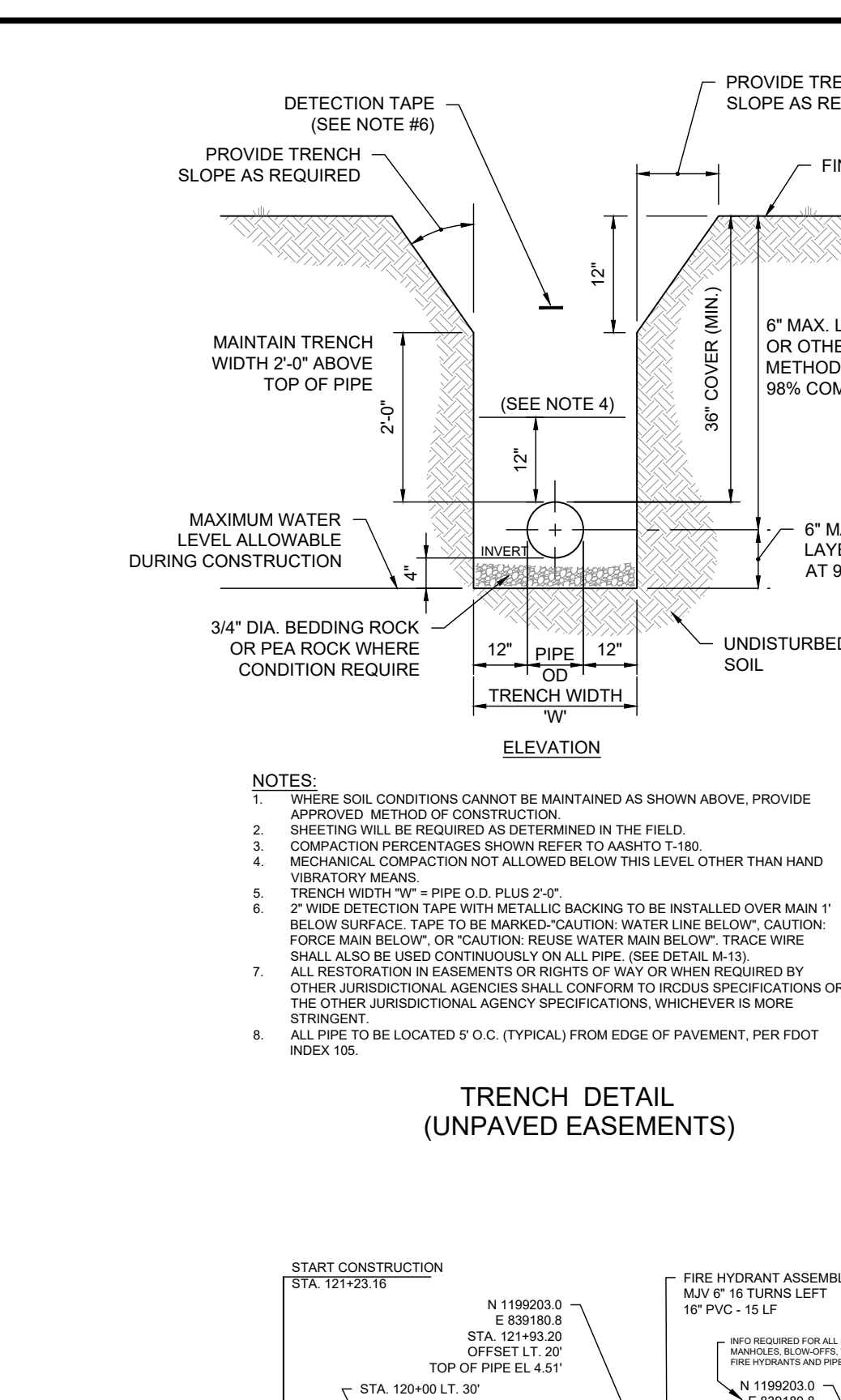
1.05.1 MATERIALS

ALL METAL COMPONENTS IN THE LIFT STATION WITH THE EXCEPTION OF THE PUMPS, MOTORS, GUIDE RAIL BASES, AND STATION PUMP SHALL BE TYPE 304 STAINLESS STEEL.

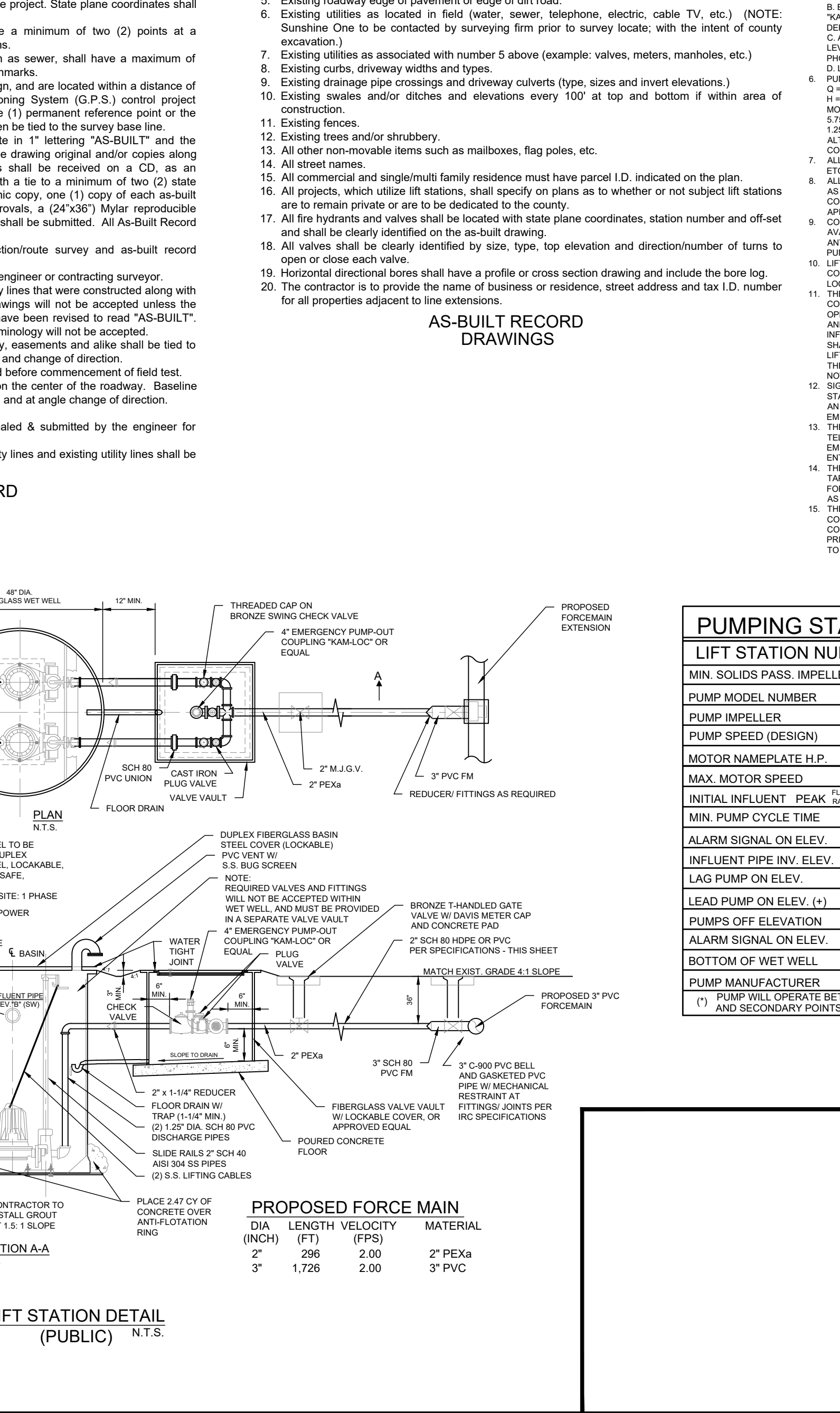
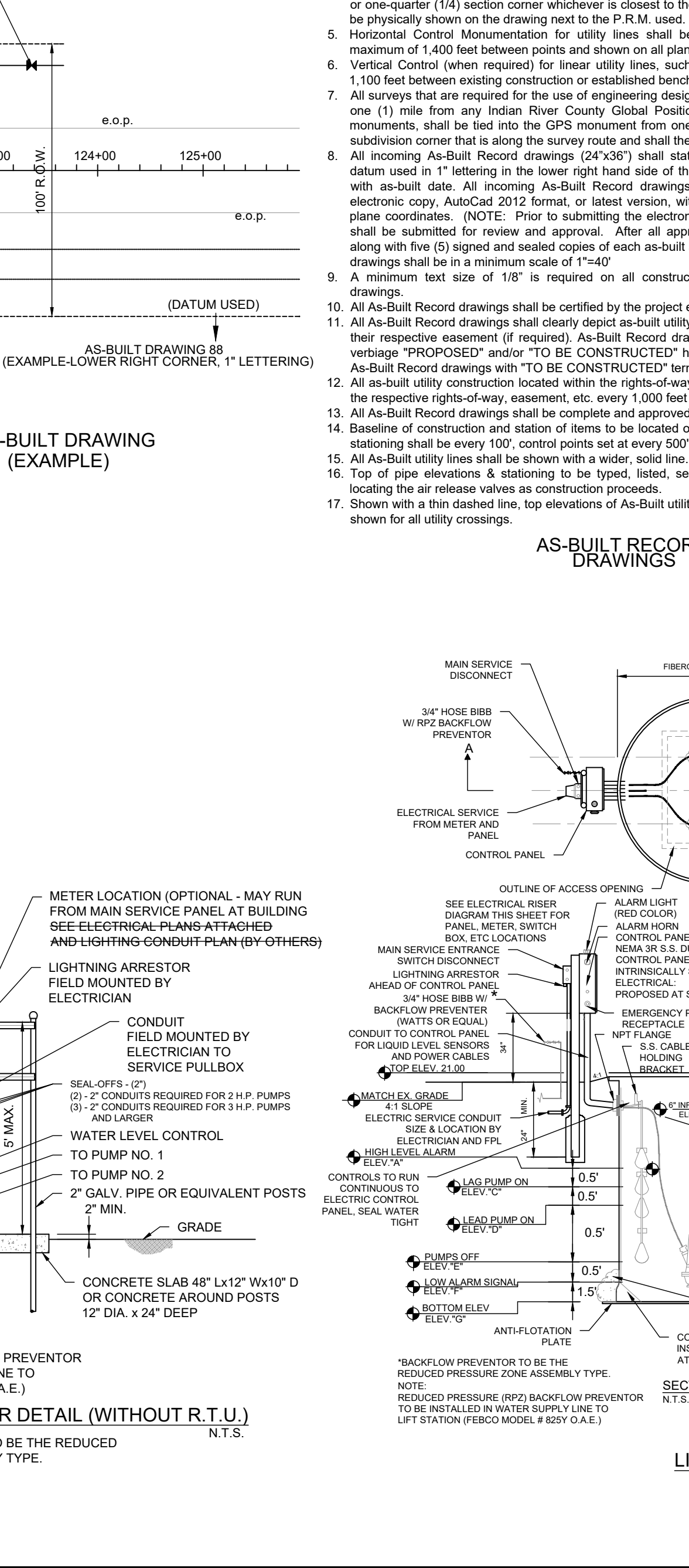
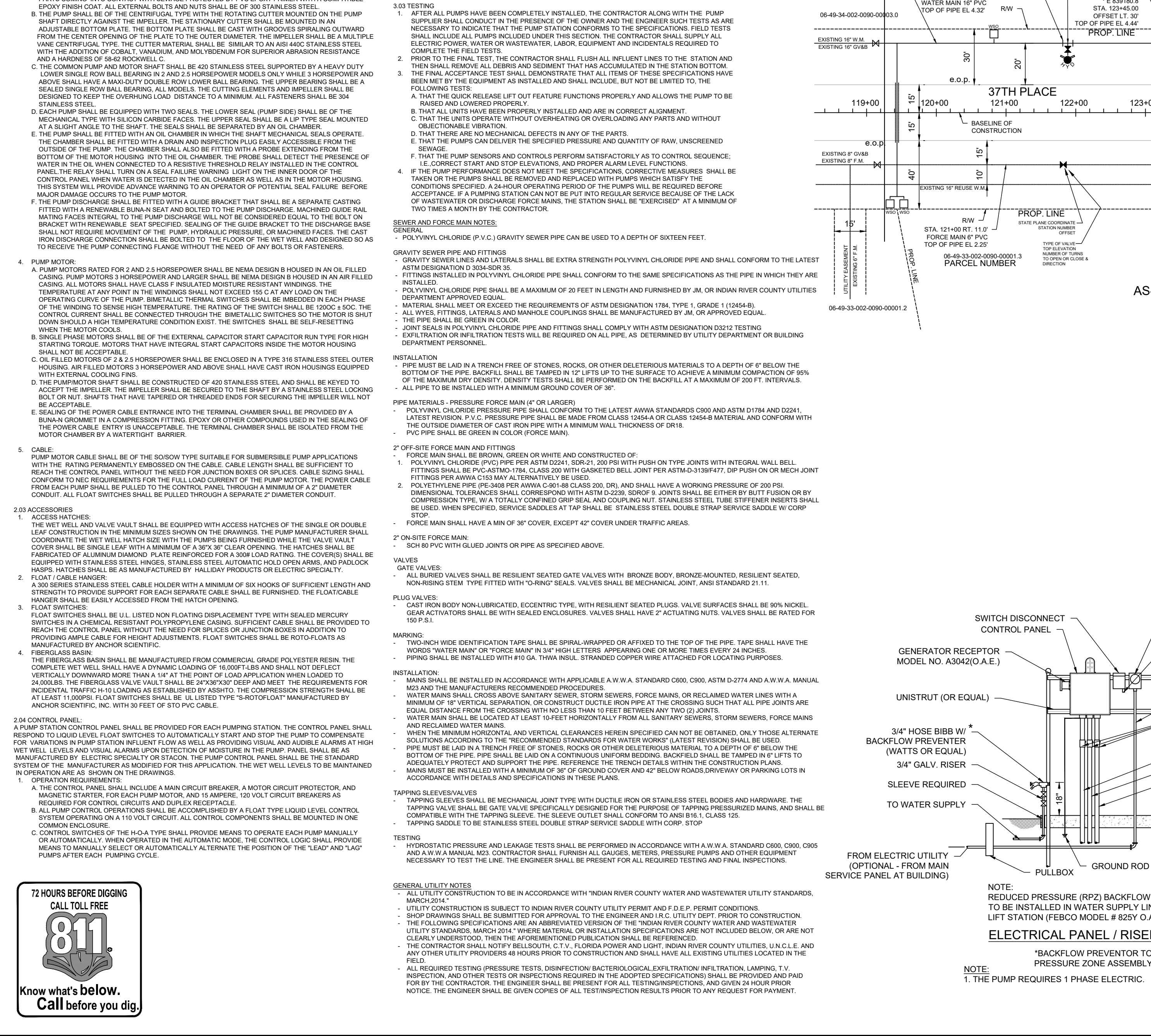
1.05.2 PARTS

GRINDER PUMP STATION EQUIPMENT

- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC MOTOR DRIVEN TOTALLY SUBMERSIBLE GRINDER PUMPS AS MANUFACTURED BY ABS PUMPS, INC. ORANGE COUNTY, FL OR PUMP STATION EQUIPMENT OF EQUAL QUALITY.
- PUMP DESIGN: THE PUMPS SHALL BE CAPABLE OF HANDLING RAW, UNSCREENED SEWAGE. THE GRINDER UNIT SHALL BE CAPABLE OF SHEARING AND REDUCING TO A FINE SLURRY ALL MATERIAL NORMALLY FOUND IN DOMESTIC AND COMMERCIAL SANITARY WASTE, DISPOSABLE PAPERS, CLOTH PAPERS, WASH RAGS, WOOD, PLASTIC, ETC. THE SLURRY SHALL BE CAPABLE OF FREELY PASSES THROUGH A 2" PIPING SYSTEM INCLUDING CHECK AND VALVES.
- DESIGN: THE GRINDER SHALL BE AUTOMATICALLY CONNECTED TO THE DISCHARGE PIPING WHEN LOWERED INTO THE DISCHARGE CONNECTION GUIDED BY ONE (1) D.C. SO# 40-304 STAINLESS STEEL GUIDE RAIL. THE GUIDE RAIL SHALL BE EASILY REMOVABLE FOR INSPECTION OR SERVICE, REQUIRING NO BOLTS, NUTS OR OTHER FASTENINGS TO BE REMOVED FOR THIS PURPOSE AND NO NEED FOR PERSONNEL TO ENTER THE PUMP CHAMBER. THE GRINDER SHALL BE FITTED WITH TWO 304 STAINLESS STEEL LIFTING LUGS WITH AN OPENING OF AT LEAST EIGHT INCHES IN DIAMETER AND A SERIES 300 STAINLESS STEEL LIFTING COLLAR FOR STRENGTH AND LENGTH TO PERMIT HANGING THE PUMP FOR INSPECTION AND REMOVAL.
- GRINDER PUMP CONSTRUCTION:
 - A TYPE STATOR CASING, OIL BEARING AND IMPELLER SHALL BE OF GRAY IRON CONSTRUCTION, WITH ALL PARTS COMING INTO CONTACT BEING PROTECTED BY AN EPDM RUBBER WITH A COMPATIBLE EPDM FINISH COAT. ALL EXTERNAL BOLTS AND NUTS SHALL BE OF 304 STAINLESS STEEL.
 - THE PUMP SHALL BE OF THE CENTRIFUGAL TYPE WITH THE ROTATING CUTTER MOUNTED ON THE PUMP SHAFT DIRECTLY AGAINST THE CUTTER. THE CUTTER SHALL BE MOUNTED ON AN ADJUSTABLE BOTTOM PLATE. THE BOTTOM PLATE SHALL BE CAST WITH GROOVES SPIRALING OUTWARD FROM THE CENTER OF ROTATION TO ALLOW FOR EASY REMOVAL FOR INSPECTION OR SERVICE. THE IMPELLER SHALL BE OF THE CENTRIFUGAL TYPE. THE CUTTER MATERIAL SHALL BE SIMILAR TO AN AISI 440C STAINLESS STEEL WITH THE ADDITION OF BORON FOR WEAR RESISTANCE.
 - THE COMMON IMPELLER MOTOR SHAFT SHALL BE 400 STAINLESS STEEL SUPPORTED BY A HIGH DUTY LOWER SINGLE ROW BALL BEARING N1 AND 2 HORSERPOWER MOTORS. ONLY WELLS HORSERPOWER AND ABOVE SHALL HAVE A MAX DUTY DOUBLE LOWER ROLLER BEARING. THE UPPER BEARING SHALL BE A SEALSIDE SINGLE ROW BALL BEARING. ALL MODELS THE CUTTING ELEMENTS AND IMPELLER SHALL BE DESIGN TO LAST THE OVERHUNG LOAD DISTANCE TO A MINIMUM. ALL FASTENERS SHALL BE 304 STAINLESS STEEL.
 - THE PUMP SHALL BE EQUIPPED WITH TWO SEALS. THE LOWER SEAL (FUSION SEAL) SHALL BE OF THE MECHANICAL TYPE WITH SILICON CARBIDE FACES. THE UPPER SEAL SHALL BE OF THE MECHANICAL TYPE AT A SLIGHT ANGLE TO THE SHAFT. THE SEALS SHALL BE SEPARATED BY AN OIL CHAMBER. THE PUMP SHALL BE FITTED WITH A RUBBER IMPELLER SEAL WHICH SHALL BE MOUNTED IN A CHAMBER WHICH SHALL BE FITTED WITH A DRAIN AND INSPECTION FLAP EASILY ACCESSIBLE FROM THE OUTSIDE OF THE PUMP. THE IMPELLER SEAL SHALL BE SEPARATED BY A WATER SEAL WHICH SHALL BE OF THE CENTRIFUGAL TYPE. THE CUTTER MATERIAL SHALL BE SIMILAR TO AN AISI 440C STAINLESS STEEL WITH THE ADDITION OF BORON FOR WEAR RESISTANCE.
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PUMPING STATION DATA TABLE			
LIFT STATION NUMBER			
MIN. SOLIDS PASS. IMPELLER	INCHES	1.25"	
PUMP MODEL NUMBER	NO.	S26/2W	
PUMP IMPELLER	I.P.M.	5.75	
PUMP PUMP (DESIGN)	R.P.M.	3520	
MOTOR NAMEPLATE H.P.	H.P.	3.49	
MAX. MOTOR SPEED	R.P.M.	3525	
INITIAL INFLUENT PEAK FLOW RATE	G.P.M.	44.1	
MIN. PUMP CYCLE TIME	MIN.	15	
ALARM SIGNAL ON ELEV.	ELEV."A"	17.50	
INFLUENT PIPE INV. ELEV.	ELEV."B"	17.00	
LAG PUMP ON ELEV.	ELEV."C"	18.00	
LEAD PUMP ON ELEV. (+)	ELEV."D"	16.50	
PUMPS OFF ELEVATION	ELEV."E"	16.50	
ALARM SIGNAL ON ELEV.	ELEV."F"	--	
BOTTOM OF WET WELL	ELEV."G"	14.50	
PUMP MANUFACTURER		ABS	



LIFT STATION DETAIL (PUBLIC)			
1. VALVE BOX LID SHALL BE PAINTED: BLUE - WATER, GREEN - FORCE MAIN, BRN - REUSE WATER, BRN - BROWN.			
2. IN UNPAVED AREAS, TYPE III VALVE INDICATOR IS TO BE PROVIDED WITH ENGRAVED DIAGRAM OF VALVE LOCATION AND DESCRIPTION. (SEE EXAMPLE ABOVE) INDICATOR SHALL BE BEAR WITH ADR1576A/1576.			
3. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6\"/>			

72 HOURS BEFORE DIGGING
CALL TOLL FREE
811
Know what's below.
Call before you dig!

HALSTROM FARMSTEAD
CONSERVATION AREA
INDIAN RIVER COUNTY, FLORIDA
ALAN G. STANTON
No. 72460
State of
FLORIDA
Professional Engineer
FLORIDA
SHEET

PROPOSED ±46,000 SF LANDSCAPE MAINTENANCE AREA OUTSIDE THE LIMITS OF DEVELOPMENT. INCLUDES REGULAR TREATMENTS FOR EXOTIC REMOVAL AND REPLANTING NATIVE VEGETATION AS NECESSARY.

PROPOSED ±1,645 SY BAHIA SOD FOR RETENTION AREA SIDE SLOPES, BUT NOT BOTTOMS (TYP.)

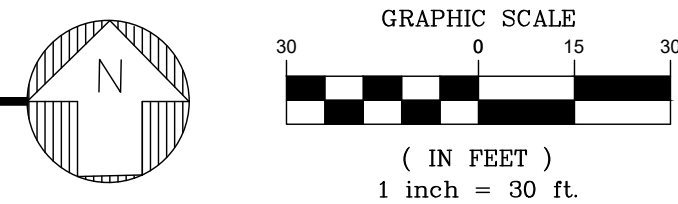
PROPOSED 5,996 SF INTERIOR PARKING LANDSCAPED AREA

PROPOSED WOOD TIMBERS AROUND LANDSCAPE PERIMETER

20 LF THOROUGHFARE BUFFER

NOTE: ALL PROTECTED TREES SHALL BE AVOIDED DURING CONSTRUCTION OF THE TRAIL NETWORK

LANDSCAPE PLAN



LANDSCAPING LEGEND

- PROPOSED INTERIOR PARKING LANDSCAPED AREAS
- PROPOSED 40' WIDE MAINTENANCE AREA WHERE INVASIVE VEGETATION WILL BE REMOVED AND NATIVE VEGETATION PLANTED

CALLOUT SYMBOL LEGEND

- SPECIES
- M = MITIGATION TREE
- R = RELOCATED TREE
- QUANTITY

LANDSCAPE MATERIAL SCHEDULE

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HGT	OTHER	NATIVE	DROUGHT TOLERANCE	MISCELLANEOUS
QV	2	Quercus virginiana	Live Oak	7 GAL.	-	15' SPREAD, 5' C.T.	YES	HIGH	
QG	2	Quercus geminata	Sand Live Oak	3 GAL.	-	15' SPREAD, 5' C.T.	YES	HIGH	
CF	2	Carya floridana	Scrub Hickory	3 GAL.	-	15' SPREAD, 5' C.T.	YES	HIGH	
PE	3	Pinus elliotii	Slash Pine	7 GAL.	-	15' SPREAD, 5' C.T.	YES	HIGH	
GROUND COVER									
SOD	1,645 SY	Paspalum notatum	Bahia Grass	-	-	100% Insect/disease free			



SIGHT LINE TRIANGLE

20 LF THOROUGHFARE BUFFER

SPEED LIMIT 40

40'

40'

40'

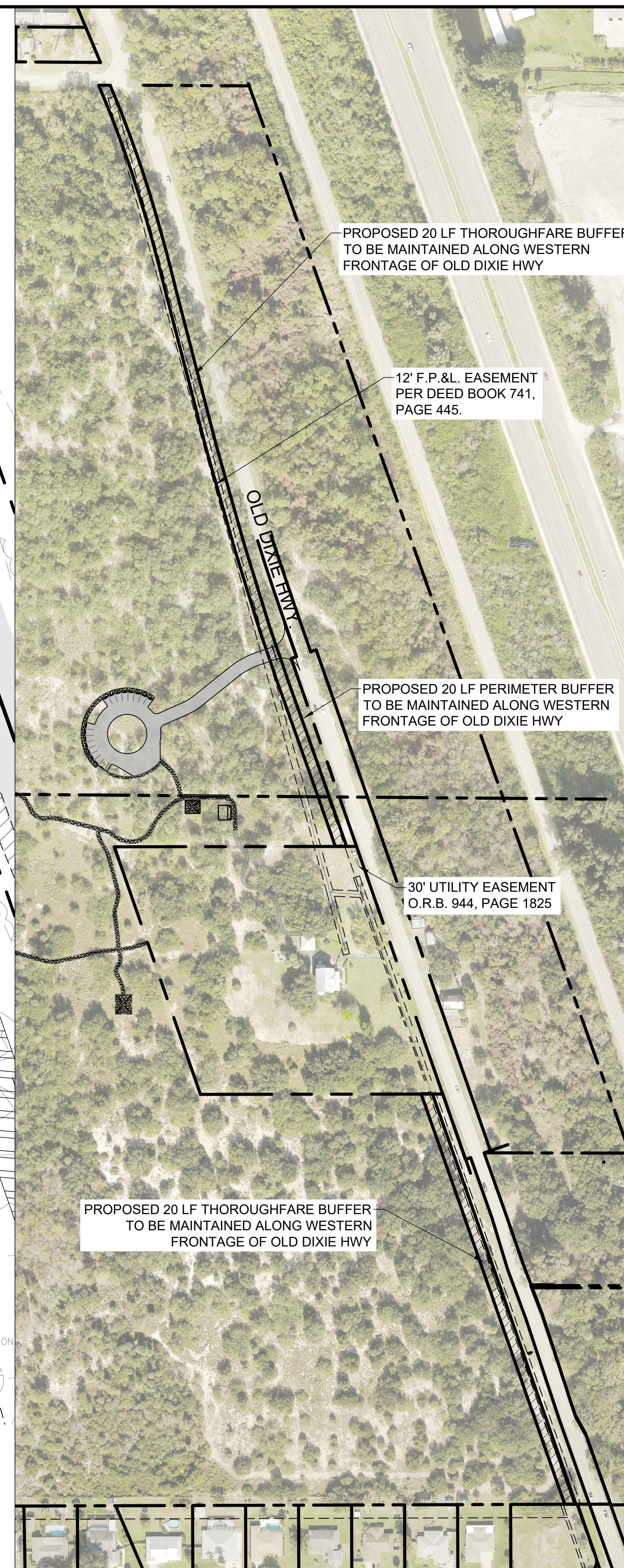
12' FLORIDA POWER & LIGHT EASEMENT PER DEED BOOK 741, PG. 445

LANDSCAPING LEGEND

- PROPOSED INTERIOR PARKING LANDSCAPED AREAS
- PROPOSED 40' WIDE MAINTENANCE AREA WHERE INVASIVE VEGETATION WILL BE REMOVED AND NATIVE VEGETATION PLANTED

CALLOUT SYMBOL LEGEND

- SPECIES
- M = MITIGATION TREE
- R = RELOCATED TREE
- QUANTITY



PROPOSED 20 LF THOROUGHFARE BUFFER TO BE MAINTAINED ALONG WESTERN FRONTAGE OF OLD DIXIE HWY

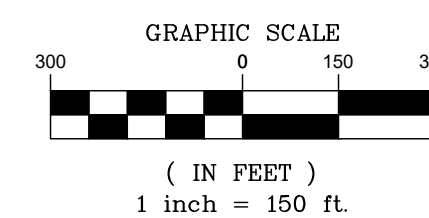
12' F.P.&L. EASEMENT PER DEED BOOK 741, PAGE 445.

PROPOSED 20 LF PERIMETER BUFFER TO BE MAINTAINED ALONG WESTERN FRONTAGE OF OLD DIXIE HWY

30' UTILITY EASEMENT O.R.B. 944, PAGE 1825

PROPOSED 20 LF THOROUGHFARE BUFFER TO BE MAINTAINED ALONG WESTERN FRONTAGE OF OLD DIXIE HWY

OLD DIXIE HWY. BUFFER



ALL ELEVATIONS IN NAVD 88

SITE LEGEND

- PROPOSED INTERIOR PARKING LANDSCAPE AREA
- PROPOSED LANDSCAPE MAINTENANCE AREA
- PROPOSED 20' THOROUGHFARE BUFFER (150' SCALE)
- PROPOSED 20' THOROUGHFARE BUFFER (30' SCALE)
- PROPOSED SIGHT LINE AREA (30' SCALE)
- PROPOSED STABILIZED PARKING
- PROPOSED ADA-WALKING TRAIL
- PROPOSED MARL PATH (BY OTHERS)
- PROPOSED BAHIA SOD
- PROPERTY BOUNDARY / RIGHT OF WAY LINE

TREE LEGEND

- EXISTING PALM TREES
- EXISTING PINE TREES
- EXISTING OAK TREES

LANDSCAPE POINT SYSTEM

DESIGN OPTIONS	POINTS
(1)(1) FLORIDA NATIVE LANDSCAPE	30
ONE HUNDRED (100) PERCENT OF LANDSCAPE AREA IS PRESERVED OR RE-ESTABLISHED FLORIDA NATIVE VEGETATION, OR NEW NATIVE PLANTINGS OF SPECIES LISTED IN APPENDIX A AND APPENDIX C. PLAN MUST INCLUDE TREES, UNDERSTORY, AND GROUND COVER WITH A MAXIMUM OF FIFTY (50) PERCENT OF SITE SODDED/GRASSED	
TOTAL	30

LANDSCAPE CALCULATIONS

- BUFFERS**
 - EAST PROPERTY LINE** (IRC LDC SECTION 926)
 - REQUIRED: 20' WIDE THOROUGHFARE PLAN ROAD BUFFER ALONG OLD DIXIE HWY.
 - 2,305 LF EAST PERIMETER
 - 2,305 LF - 24 LF DRIVEWAY = 2,281 LF
 - 4.0 CANOPY TREES PER 100 LF = 92 CANOPY TREES
 - 5.0 UNDERSTORY TREES PER 100 LF = 114 UNDERSTORY TREES
 - 60 SHRUBS PER 100 LF = 1,140 SHRUBS
 - PROVIDED: THE EXISTING BUFFER IS MUCH WIDER THAN 20 FT AND CONTAINS A NATIVE SCRUB HABITAT INCLUDING LIVE OAKS AND CABBAGE PALMETTOS, AND A THICK UNDERSTORY OF SMALLER TREES AND SAW PALMETTOS.
- SOUTH PROPERTY LINE** (IRC LDC SECTION 926)
 - REQUIRED: NONE
 - PROVIDED: EXISTING VEGETATION TO REMAIN
- WEST PROPERTY LINE** (IRC LDC SECTION 926)
 - REQUIRED: NONE
 - PROVIDED: EXISTING VEGETATION TO REMAIN
- NORTH PROPERTY LINE** (IRC LDC SECTION 926)
 - REQUIRED: NONE
 - PROVIDED: EXISTING VEGETATION TO REMAIN
- OFF STREET PARKING AREAS** (IRC LDC SECTION 926.09)
 - REQUIRED: TWELVE (12) PERCENT OF THE TOTAL PAVED AREA (DRIVING AISLES, DRIVEWAYS, PARKING SPACES, LOADING AREAS) SHALL BE PLANTED WITH INTERIOR LANDSCAPING
 - 20,810 SF OF DRIVE AISLE & PARKING SPACES X 12% = 2,498 SF OF REQUIRED INTERIOR LANDSCAPING
 - (INTERIOR LANDSCAPE AREA) / 300 SF = # OF REQUIRED TREES = 2,498 / 300 = 9 TREES
 - PROVIDED: 6,026 SF OF LANDSCAPE AREA
 - CANOPY TREES: = 9 TREES
- FOUNDATION PLANTING AREAS** (IRC LDC SECTION 911)
 - REQUIRED: NONE
 - PROVIDED: ALL EXISTING VEGETATION TO REMAIN
- NONVEHICULAR LANDSCAPE AREAS** (IRC LDC SECTION 926)
 - REQUIRED: NONE
 - PROVIDED: ALL EXISTING VEGETATION TO REMAIN

IRRIGATION SOURCE WATER TRUCK TO ESTABLISH

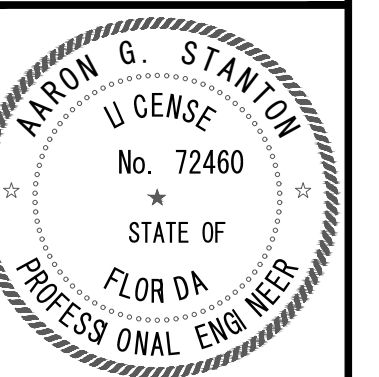
JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	DATE	ISSUED	DATE
20-0240	AS	JIB	JUNE 2021	TH	6/11/2021		

MBV ENGINEERING, INC.
 MOA BONLES VILLAMIZAR & ASSOCIATES
 ENGINEERING & CA #57128
 1850 S. 20TH STREET
 BOCA RATON, FL 33480
 REV. PHONE: FL - PH (305) 953-1510
 FT. PIERCE, FL - PH (772) 468-9055

LANDSCAPING PLAN

HALLSTROM FARMSTEAD CONSERVATION AREA

FLORIDA INDIAN RIVER COUNTY

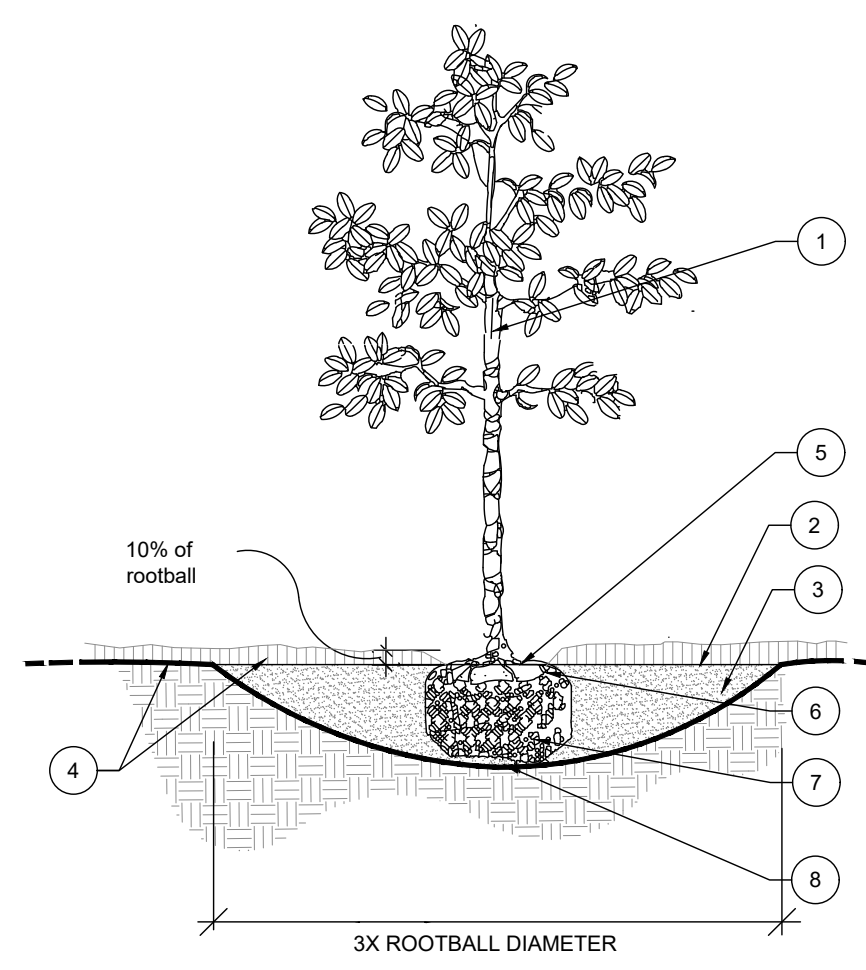


AARON G. STANTON FL. P.E. #72460

SHEET

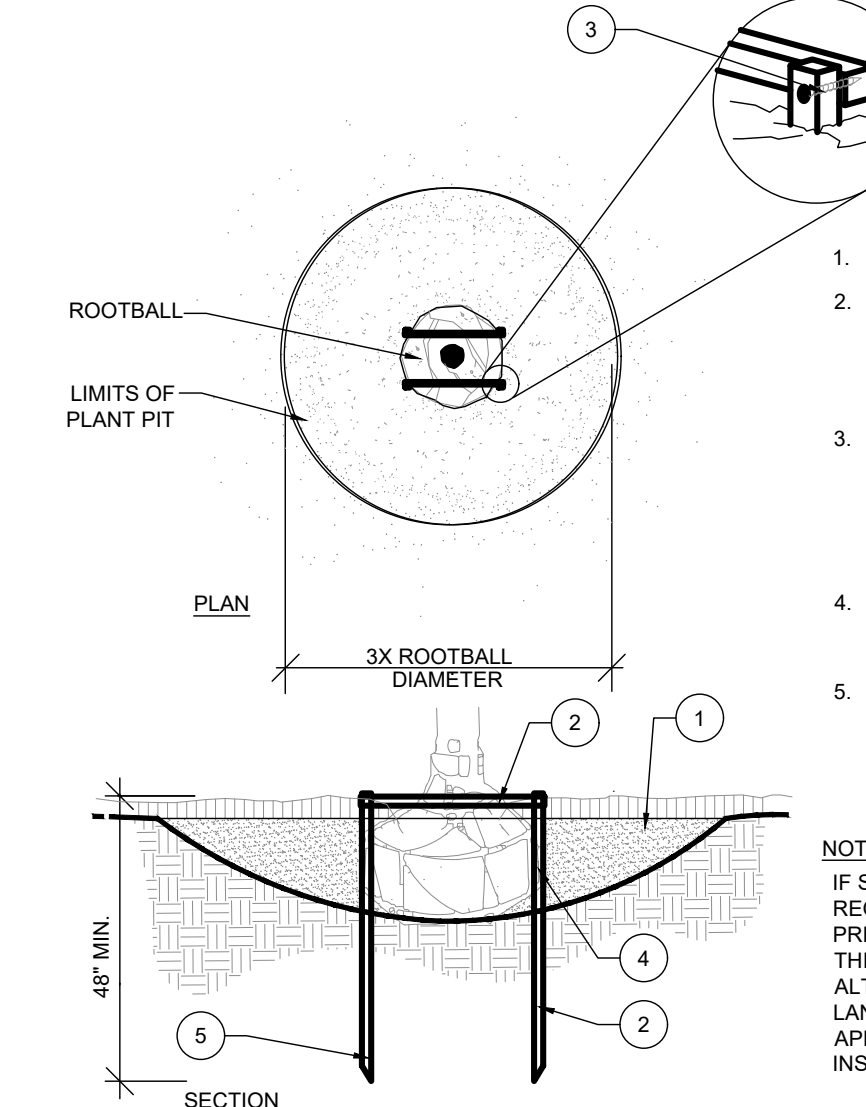
C15

20-0240



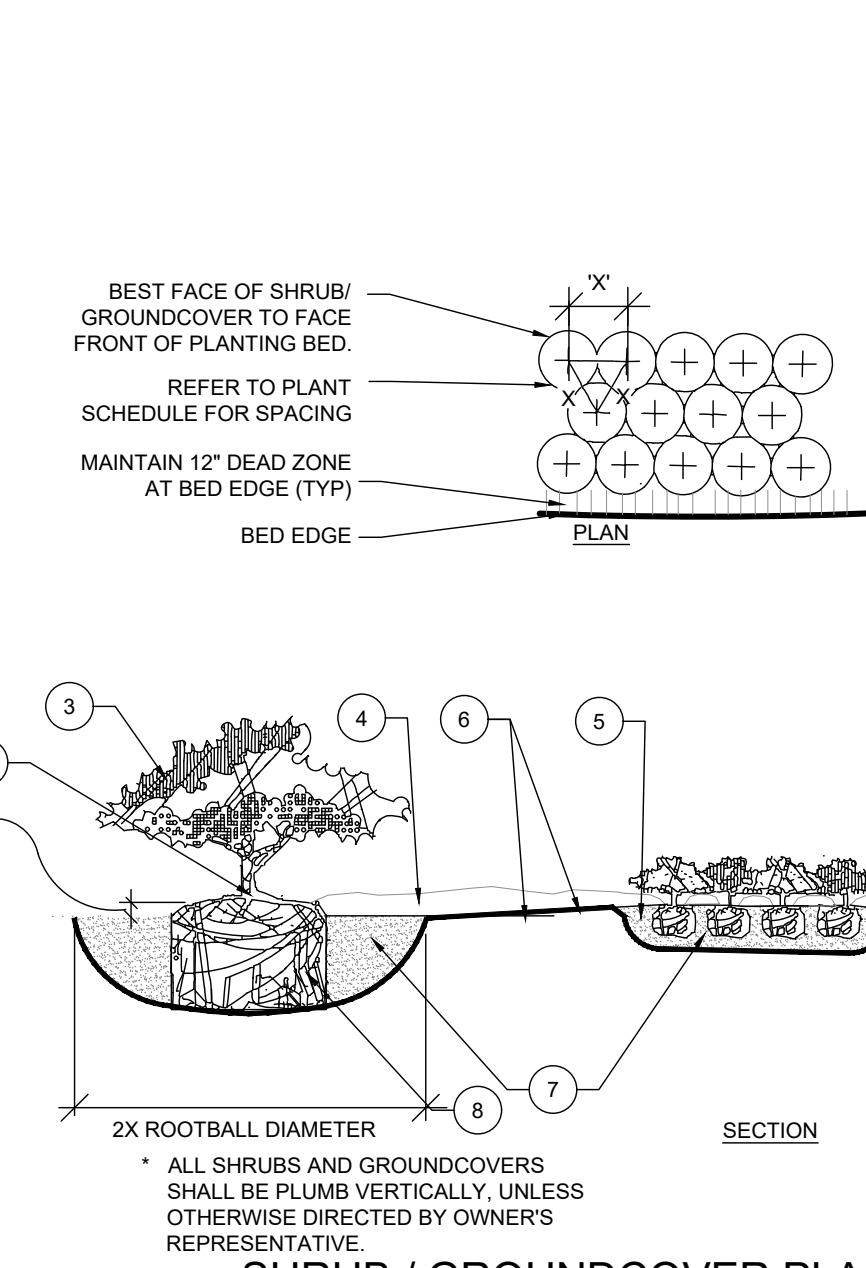
TREE PLANTING

SECTION NTS



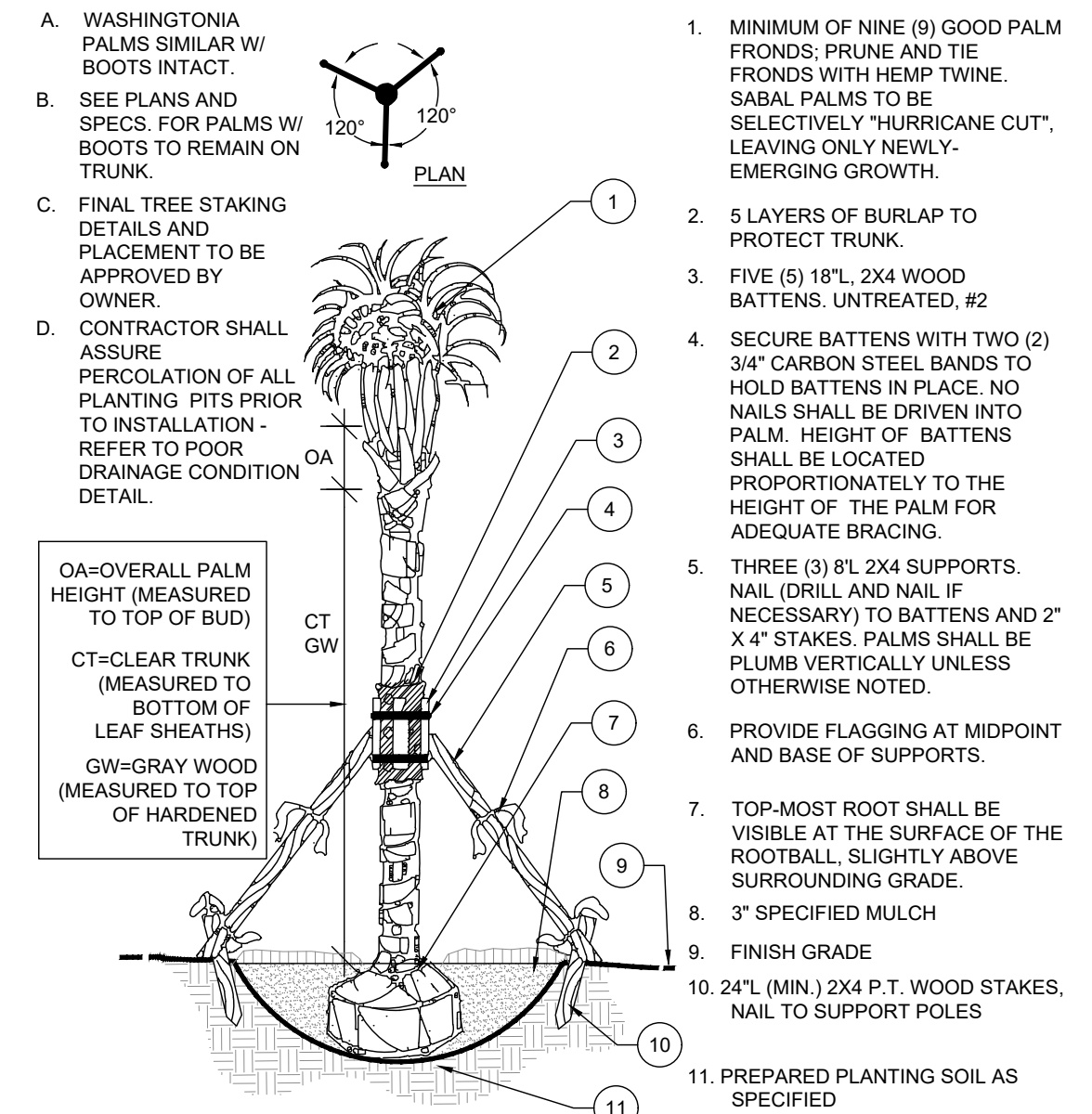
STAKING - UP TO 65 GAL. OR B&B TO 3-1/2" CAL.

PLAN/SECTION NTS



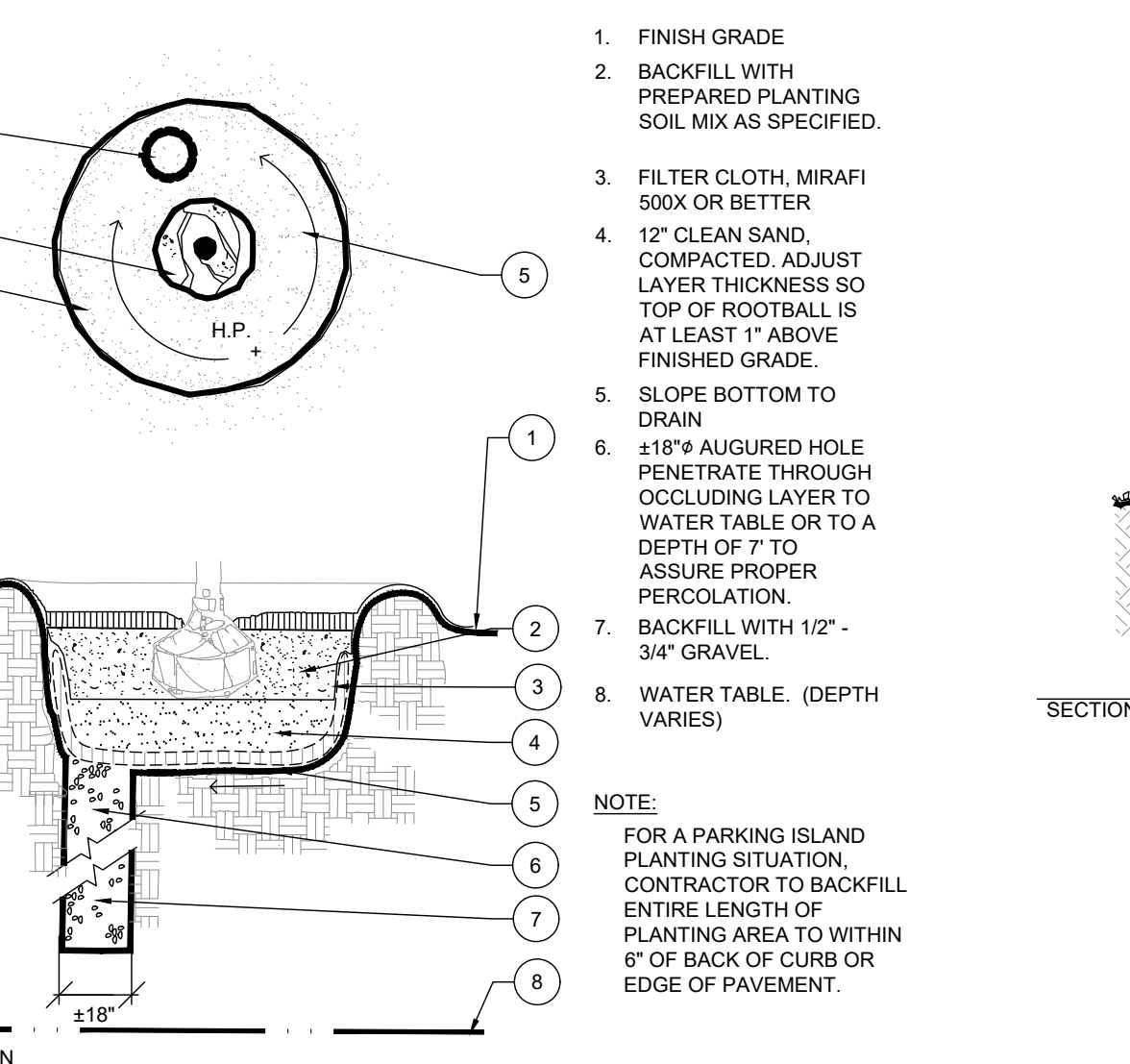
SHRUB / GROUNDCOVER PLANTING

SECTION NTS



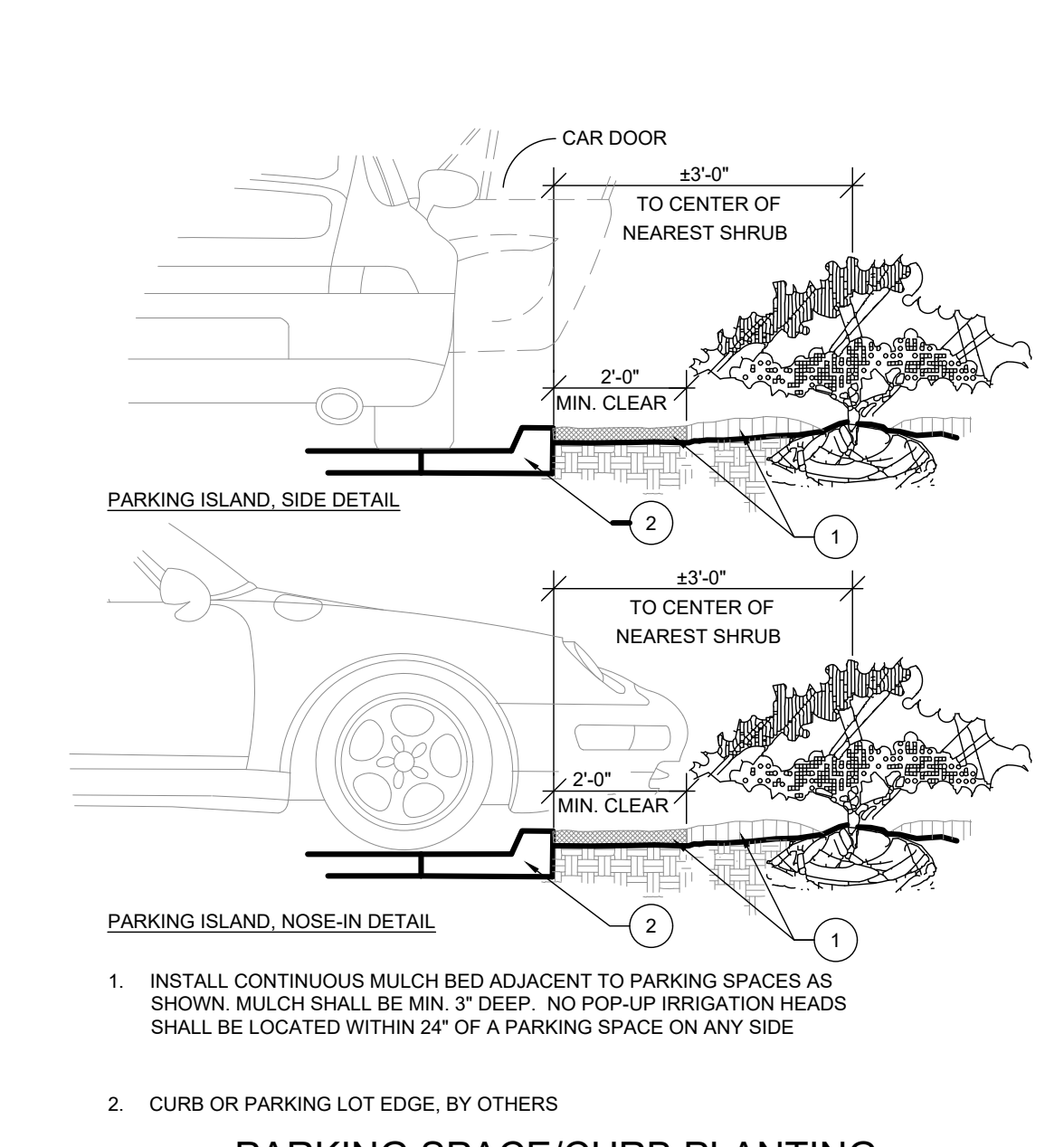
PALM PLANTING AND STAKING

SECTION NTS



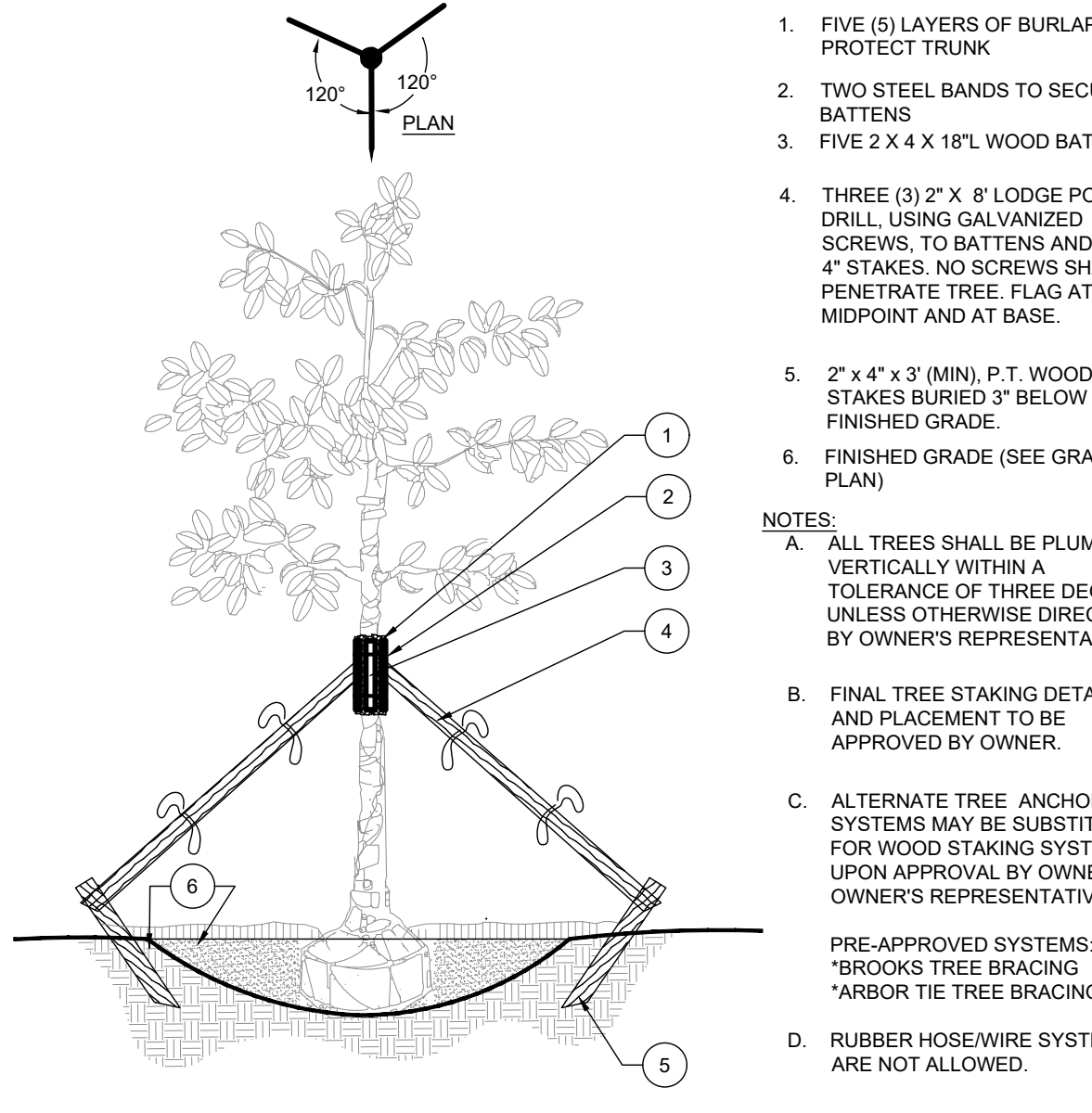
POOR DRAINAGE CONDITION

PLAN/SECTION NTS



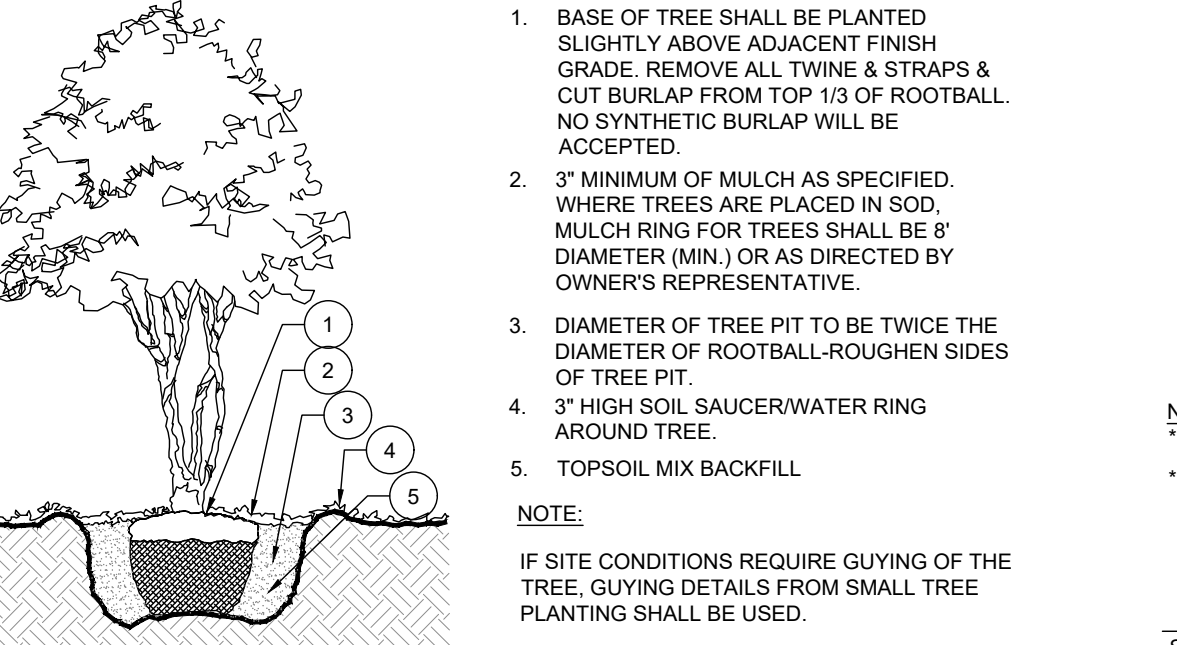
PARKING SPACE/CURB PLANTING

SECTION NTS



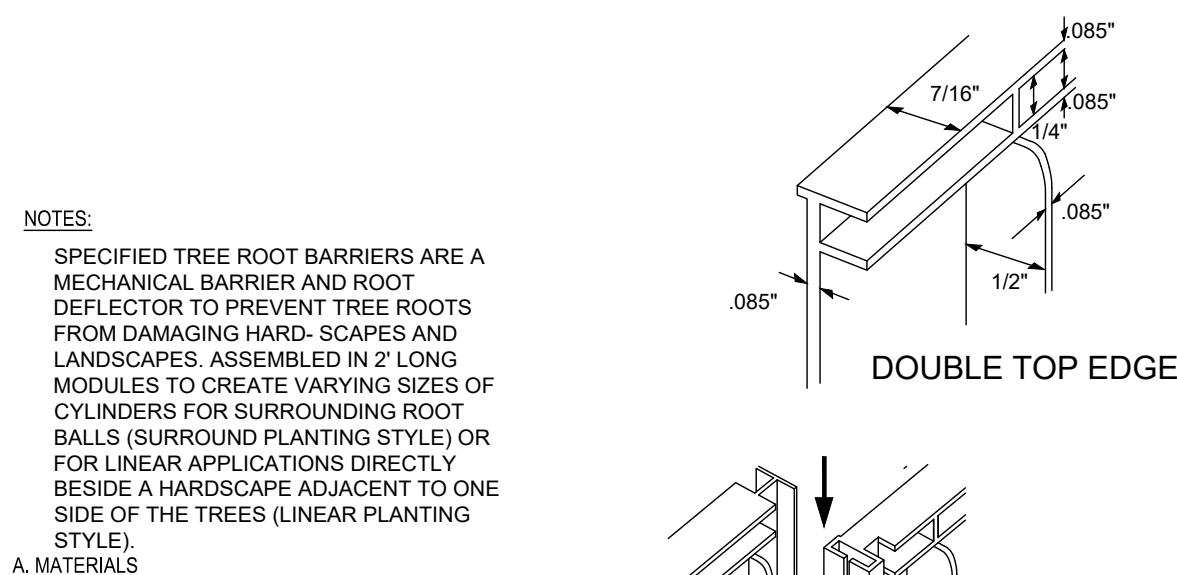
LARGE TREE STAKING - 100 GAL + OR B&B 4" +

SECTION NTS



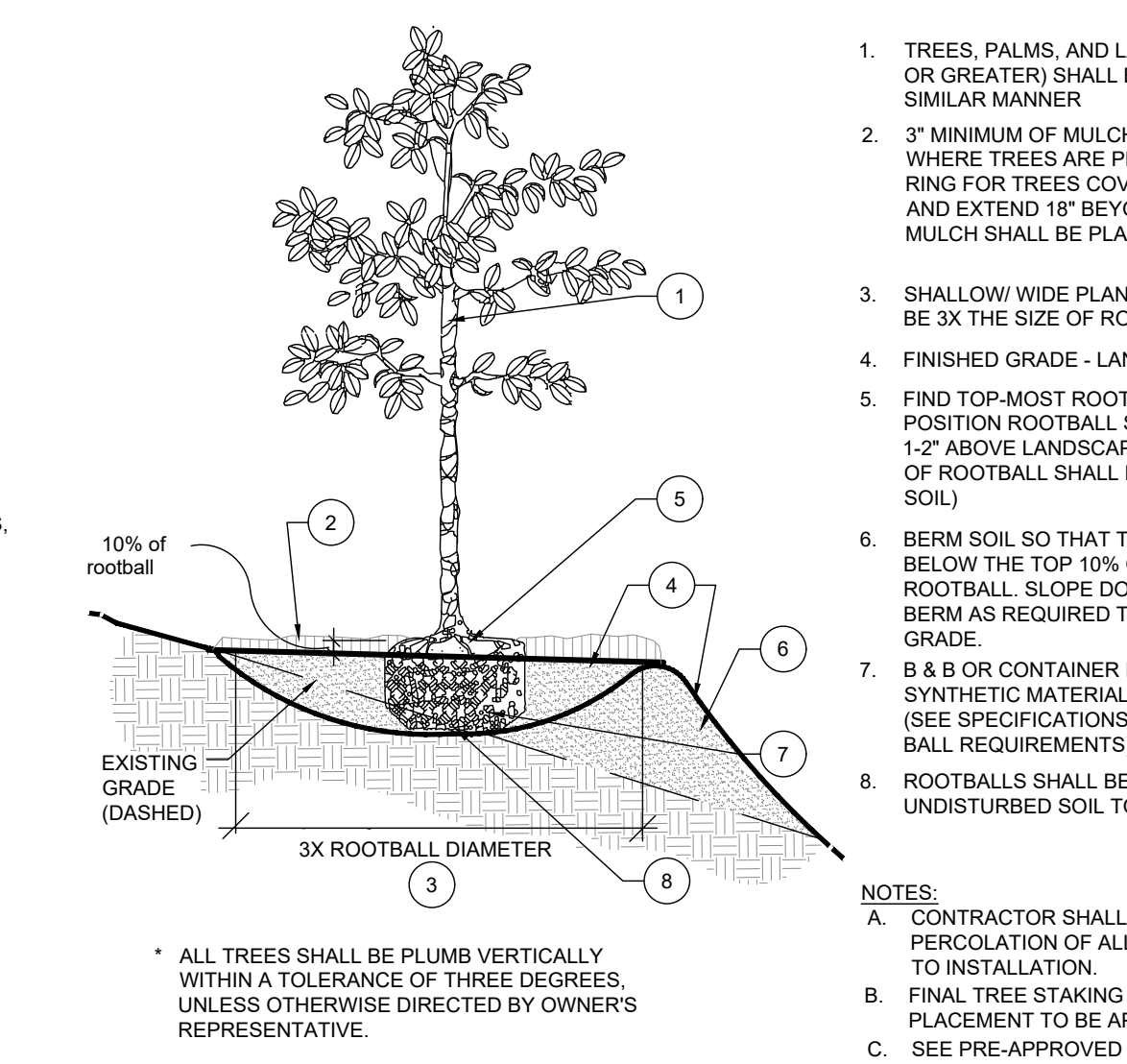
MULTI-TRUNK TREE PLANTING DETAIL

SECTION NTS



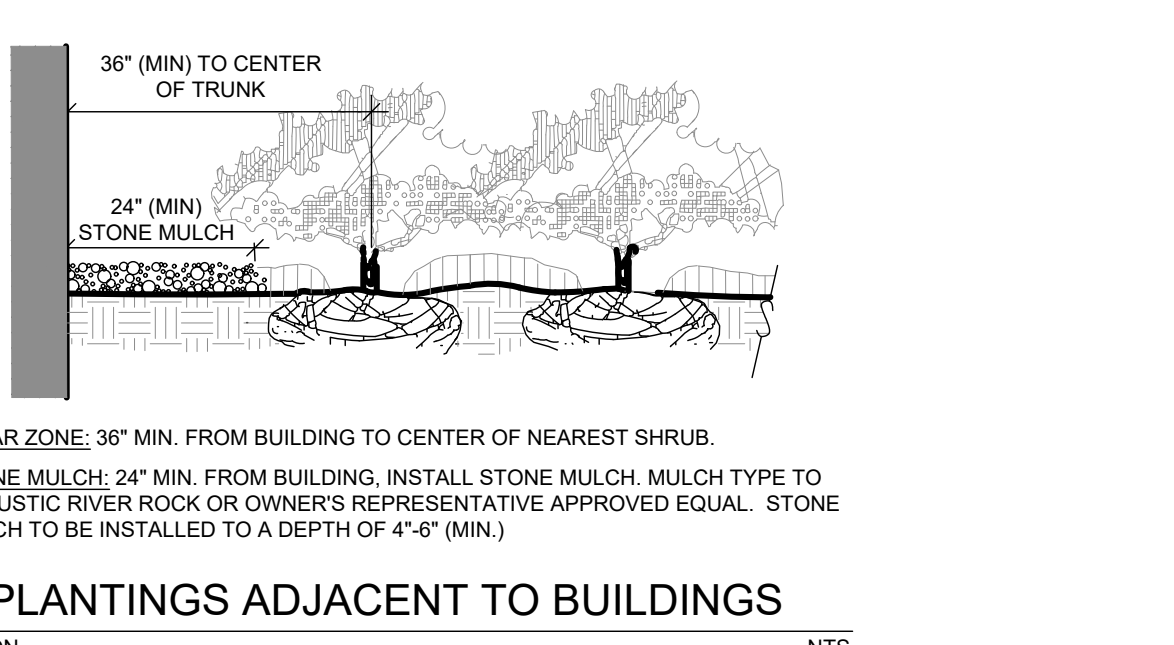
24" DEEPROOT TREE ROOT BARRIERS

SECTION NTS



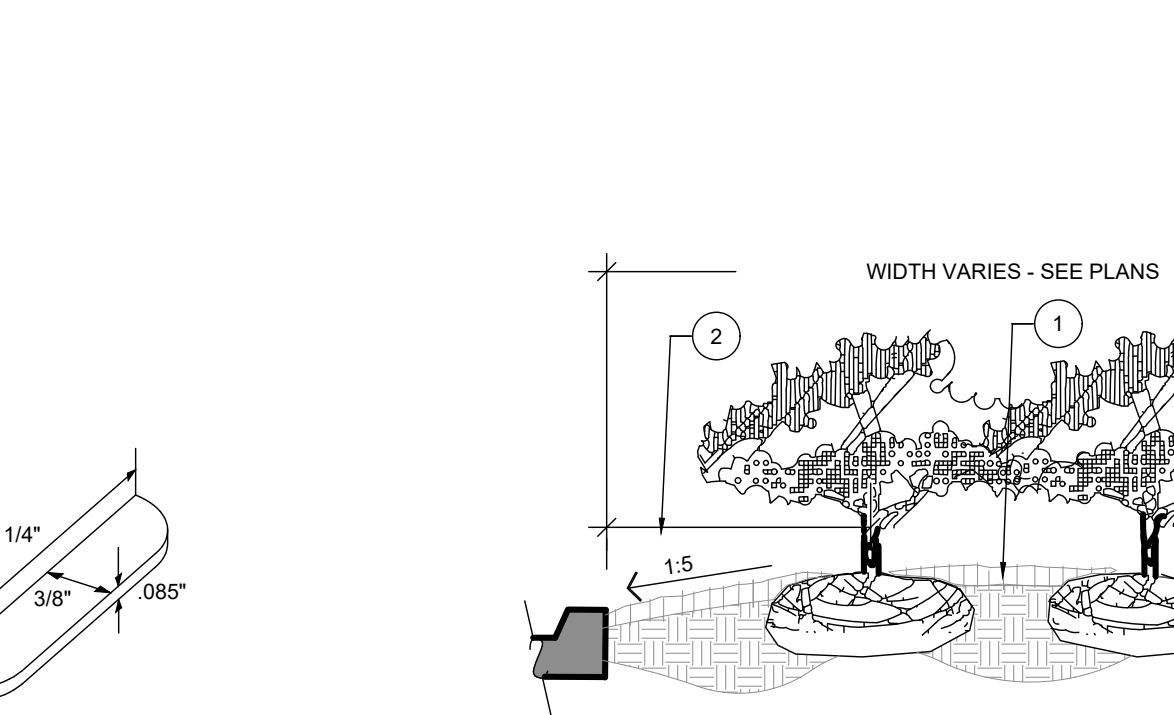
PLANTING ON A SLOPE

SECTION NTS



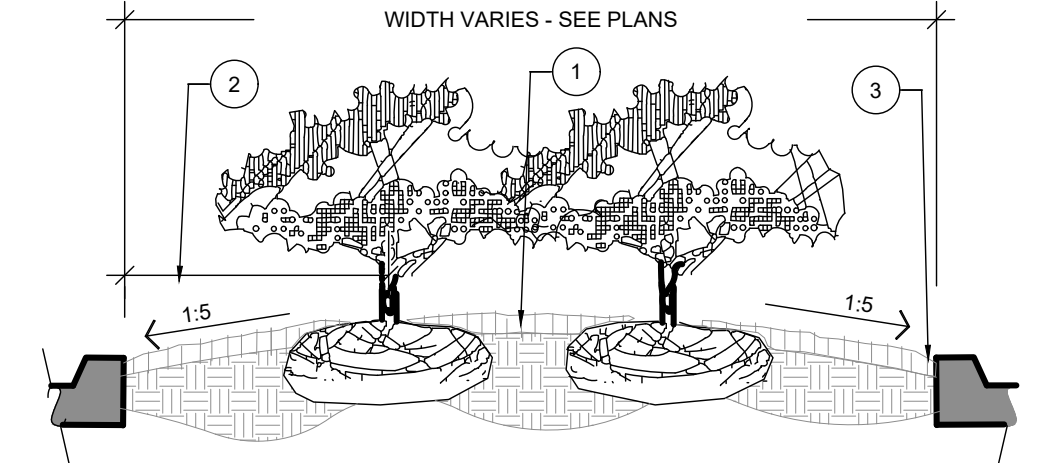
PLANTINGS ADJACENT TO BUILDINGS

SECTION NTS



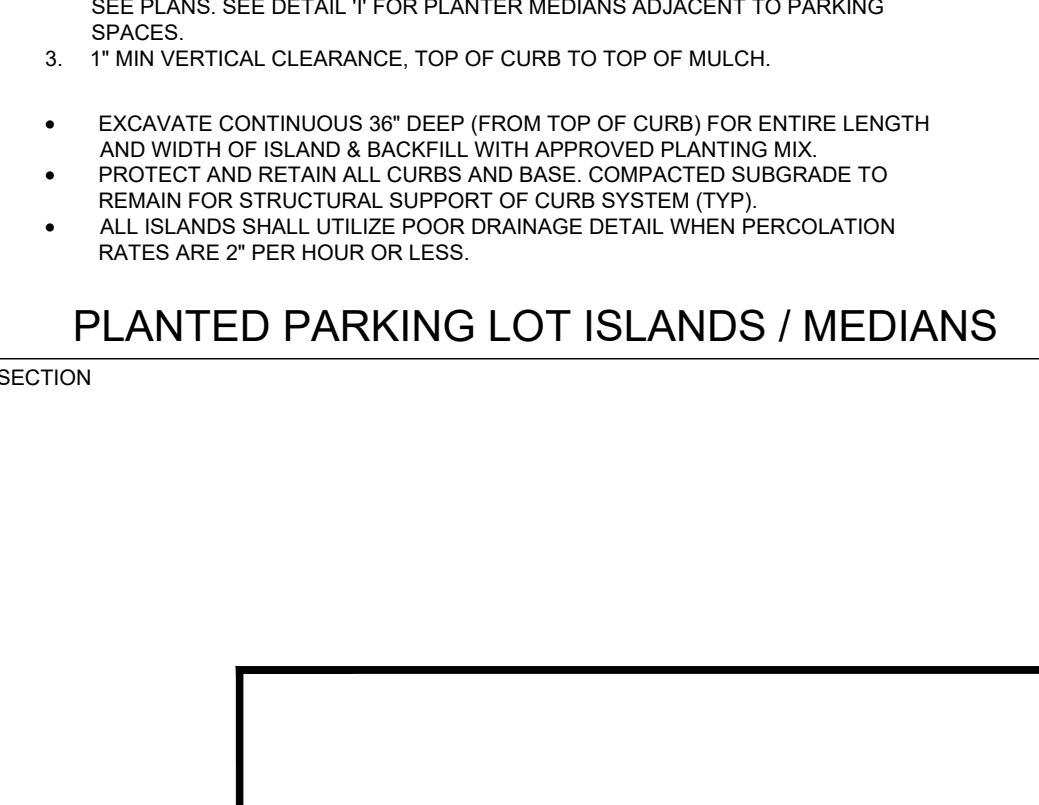
ZIPPER JOINING SYSTEM

SECTION NTS



PLANTER ISLAND NOTES

SECTION NTS



PLANTED PARKING LOT ISLANDS / MEDIANS

SECTION NTS

DESIGNED	AS	DATE	1/7/2022
DRAWN	JIB	DATE	10/19/2021
CHECKED	TH	DATE	9/23/2021
ISSUED	TH	DATE	8/12/2021

MBV ENGINEERING, INC.
MOA, BONNIE VILLAMIZAR & ASSOCIATES
ENGINEERING & ARCHITECTURE
1850 W. 20TH STREET
BOCA RATON, FL 33480
TEL: (561) 993-1510
FL. REG. NO. EC-11177
FL. REG. NO. PE-11177

HALLSTROM FARMSTEAD CONSERVATION AREA
INDIAN RIVER COUNTY, FLORIDA

AARON G. STANTON
FL. P.E. #72460

SHEET
C16
20-0240



SECTION 00310 – Bid Form – Addendum 4

PROJECT IDENTIFICATION:

Project Name: **Hallstrom Farmstead Parking Lot, Trail & Restroom Construction**

Bid Number: **2022019**

Project Address: **1701 Old Dixie Highway SW
Vero Beach, FL 32962**

Project Description: ***The project includes the construction of a parking lot, restroom, and walking paths at the Hallstrom Farmstead Conservation Area.***

THIS BID IS SUBMITTED TO:

INDIAN RIVER COUNTY
1800 27th Street
VERO BEACH, FLORIDA 32960

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged.

<u>Addendum Date</u>	<u>Addendum Number</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities)

which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

[The remainder of page intentionally left blank]

ITEMIZED BID SCHEDULE - ADDENDUM 4

PROJECT NAME: Hallstrom Farmstead Parking Lot, Trail & Restroom Construction

BID NO. 2022019

BIDDER'S NAME: _____

Item No.	Description	Unit	Unit Price	Quantity	Amount
101-1	MOBILIZATION/DEMobilIZATION	LS	\$	1	\$
102-1	MAINTENANCE OF TRAFFIC	LS	\$	1	\$
104-2	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	\$	1	\$
110-1-1	CLEARING & GRUBBING	LS	\$	1	\$
120-4	SUBSOIL EXCAVATION	CY	\$	707	\$
120-6	EMBANKMENT	SY	\$	4,055	\$
160-4-1	6" STABILIZED SUBGRADE FOR TRAILS AND PAVILIONS	SY	\$	2,300	\$
160-4-2	8" STABILIZED SUBGRADE FOR DRIVEWAY, PARKING & ENTRANCE	SY	\$	2,236	\$
160-4-4	SHELL FOR SURFACE COURSE (WASHED SHELL HASH)	SY	\$	2,070	\$
285-701	4" COQUINA BASE FOR TRAIL SURFACE & PAVILIONS	SY	\$	2,050	\$
285-706	6" COQUINA SHELLROCK FOR TRAIL SURFACE	SY	\$	2,070	\$
522-2	6" CONCRETE SIDEWALK, ADA PARKING AND ENTRANCE	SY	\$	210	\$
570-1-2	PERFORMANCE TURF (SOD)(BAHIA)	SY	\$	2,650	\$
995-1	BUILDING PAD (RESTROOM)	LS	\$	1	\$
995-2	ELECTRICAL SERVICES TO BUILDING TRANSFORMER PAD/LIFT STATION ELECTRIC	LS	\$	1	\$
995-3	RESTROOM BUILDING COST (INCLUDING COVERED PATIO)	LS	\$	1	\$
995-4	PAVILION INSTALLATION	LS	\$	1	\$
996-1	PARKING LOT, DRIVEWAY AND WALKWAY SIGNAGE	LS	\$	1	\$
996-2	STRIPING	LS	\$	1	\$
996-3	WHEEL STOPS	EA	\$	16	\$
997-1	8" C900 PVC WATER LINE	LF	\$	22	\$
997-2	1" C900 PVC WATER SERVICE (DR18)	LF	\$	248	\$
997-3	16" x 8" TAPPING SLEEVE & VALVE ASSEMBLY	LS	\$	1	\$
997-4	FIRE HYDRANT ASSEMBLY	EA	\$	1	\$
997-5	8" x 1" REDUCER	EA	\$	1	\$
997-6	1" DDCV W/RPZ FEATURE	EA	\$	1	\$
997-7	1" METER & BOX	EA	\$	1	\$
997-8	2" PEXa LINE	LF	\$	290	\$

00310-3

ITEMIZED BID SCHEDULE - ADDENDUM 4

PROJECT NAME: Hallstrom Farmstead Parking Lot, Trail & Restroom Construction

BID NO. 2022019

BIDDER'S NAME: _____

Item No.	Description	Unit	Unit Price	Quantity	Amount	
997-9	PRIVATE GRINDER LIFT STATION	LS	\$	1	\$	
997-10	3" C900 PVC SEWER MAIN DIRECTIONAL BORED	LF	\$	1,810	\$	
997-11	DIRECTIONAL BORE 2" PEXa LINE	LF	\$	65	\$	
997-12	2" GATE VALVE	LF	\$	2	\$	
997-13	3" GATE VALVE W/CAP	LF	\$	1	\$	
997-14	3" X 2" REDUCER	EA	\$	1	\$	
997-15	WATER TESTING	LS	\$	1	\$	
997-16	SEWER TESTING	LS	\$	1	\$	
998-1	LANDSCAPING	LS	\$	1	\$	
999-1	CONSTRUCTION LAYOUT/ RECORD DRAWINGS (WORK WITHIN LWCF GRANT)	LS	\$	1	\$	
999-2	CONSTRUCTION LAYOUT/ RECORD DRAWINGS (WORK NOT INCLUDED IN LWCF GRANT)	LS	\$	1	\$	
Hallstrom Farmstead Parking Lot & Restroom Construction					SUB TOTAL	\$
999-25	FORCE ACCOUNT				\$75,000.00	
TOTAL BID AMOUNT (INCLUDING FORCE ACCOUNT)					\$	

LS=Lump Sum EA=Each PI=Per Intersection AS=Assembly SF= Square Foot SY=Square Yard
GAL=Gallon LF=Linear Foot CY=Cubic Yard TN=TON

NOTE: IF THERE IS A DISCREPANCY BETWEEN THE PLANS (SUMMARY OF PAY ITEMS) AND THE ITEMIZED BID SCHEDULE, THE BID SCHEDULE WILL BE UTILIZED FOR BIDDING PURPOSES.

TOTAL PROJECT BID AMOUNT IN WORDS _____

5.01 Bidder shall complete the Work in accordance with the Contract Documents for the price(s) contained in the Bid Schedule:

- A. The Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.
- B. The Owner reserves the right to omit or add to the construction of any portion or portions of the work heretofore enumerated or shown on the plans. Furthermore, the Owner reserves the right to omit in its entirety any one or more items of the Contract without forfeiture of Contract or claims for loss of anticipated profits or any claims by the Contractor on account of such omissions.
- C. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided. The quantities actually required to complete the contract and work may be less or more than so estimated, and, if so, no action for damages or for loss of profits shall accrue to the Contractor by reason thereof.
- D. Unit Prices have been computed in accordance with paragraph 11.03.B of the General Conditions.

6.01 Bidder agrees that the Work will be substantially completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of this Bid:

- A. Itemized Bid Schedule;
- B. Required Bid security in the form of _____;
- C. Sworn Statement under Section 105.08, Indian River Code, on Disclosure of Relationships;
- D. Qualifications Questionnaire;
- E. List of Subcontractors;
- F. Certification Regarding Prohibition Against Contracting with Scrutinized Companies

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on _____, 20__.

State Contractor License No. _____

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Email: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone No.: _____ FAX No.: _____

Email: _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest _____
(Signature of Corporate Secretary)

Business address: _____

Phone No.: _____ FAX No.: _____

Email: _____

Date of Qualification to do business is _____.

A Joint Venture

Joint Venture Name: _____ (SEAL)

By: _____
(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Email: _____

Joint Venture Name: _____ (SEAL)

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Email: _____

Phone and FAX Number, and Address for receipt of official communications:

(Each joint venturor must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

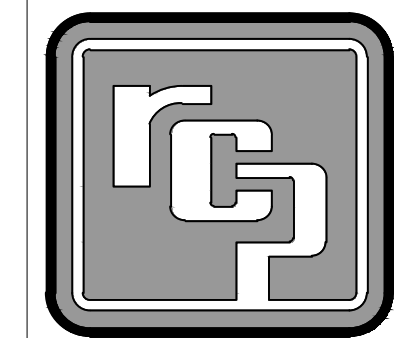
**** END OF SECTION ****

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LW-G3036-03
HALLSTROM FARMSTEAD
VERO BEACH, FL

RCP SHELTERS, INC.

2100 SE RAYS WAY, STUART, FL 34994
 PO BOX 25, STUART, FL 34995 - 0025
 ■ SHELTERS ■ PAVILIONS ■ CONCESSIONS ■ KIOSKS ■ FABRIC SHADE
 ■ RESTROOMS ■ BANDSHELLS ■ MINI-SHELTERS ■ DUGOUTS ■ FABRIC SAIL
 Phone 772-288-3600 Fax 772-288-0207
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PROJ. NO.:	21-304-A	
DRAWN:	DPS	1-3-22
CHKD:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	21-304-A1	
EEC JOB NO.:	14184 R	
SHEET NO.:	1 OF 5	

CONTRACT NOTE:
 Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

LAMINATED WOOD SPECIFICATIONS:
 SPECIES ----- SOUTHERN PINE
 LAMINATION THICKNESS ----- 2" NOMINAL
 STRESS COMBINATION ----- SEE MEMBER DETAILS
 ADHESIVE ----- RESORCINOL
 APPEARANCE GRADE ----- ARCHITECTURAL
 FINISH ----- SEAL & STAIN; COLOR = _____
 PROTECTION ----- INDIVIDUAL WRAP
 PRESERVATIVE TREATMENT -- CCA 0.4 PCF (MIN) RETENTION @ COLUMNS, TREATED PRIOR TO GLUING
 HARDWARE ----- PER DETAILS & LIST

SOLID TIMBER SPECIFICATIONS
 2 x 4 Nailer ----- #1 SYP, S4S, KD, Seal & Stain; color = _____
 2 x 6 Fascia ----- #1 AY, S4S, KD, Seal & Stain; color = _____
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, Seal & Stain; color = _____
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:
 TWO LAYERS OF COVERPRO 2000 SYNTHETIC UNDERLAYMENT (FL PRODUCT APPROVAL 17873.2).
 ATTACH UNDERLAYMENT IN COMPLIANCE WITH PRODUCT APPROVAL OR BUILDING CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

WOOD SHOP NOTES:
 1. Materials, Manufacture and Quality Control of glulam shall be in conformance with, "American National Standard for Wood Products-Structural Glued Laminated Timber ANSI A190.1-2017".
 2. Members shall be marked (in an unseen location) with an AITC or APA/EWS Quality Mark and, in addition, an AITC or APA/EWS Certificate of Conformance shall be provided to indicate conformance with "ANSI A190.1-2017".

STEEL & HARDWARE SHOP NOTES:
 1. All steel plate to be ASTM A572 Grade 50.
 2. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
 3. All fabricated steel to be powder coated; color selected by owner.
 4. Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:
 All wood members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Pre-drill wood for screws and nails if necessary to avoid splitting.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:
 Florida Building Code 7th Ed. (2020)
 Type of Construction: Type V-B
 Occupancy Classification: Assembly A-3
 Building Risk Category II
 Mean Roof Height = 10'-2"
 Building Volume = 10,980 ft³
 No. of Occupants = 60 (15 ft² per person)

ROOF DL

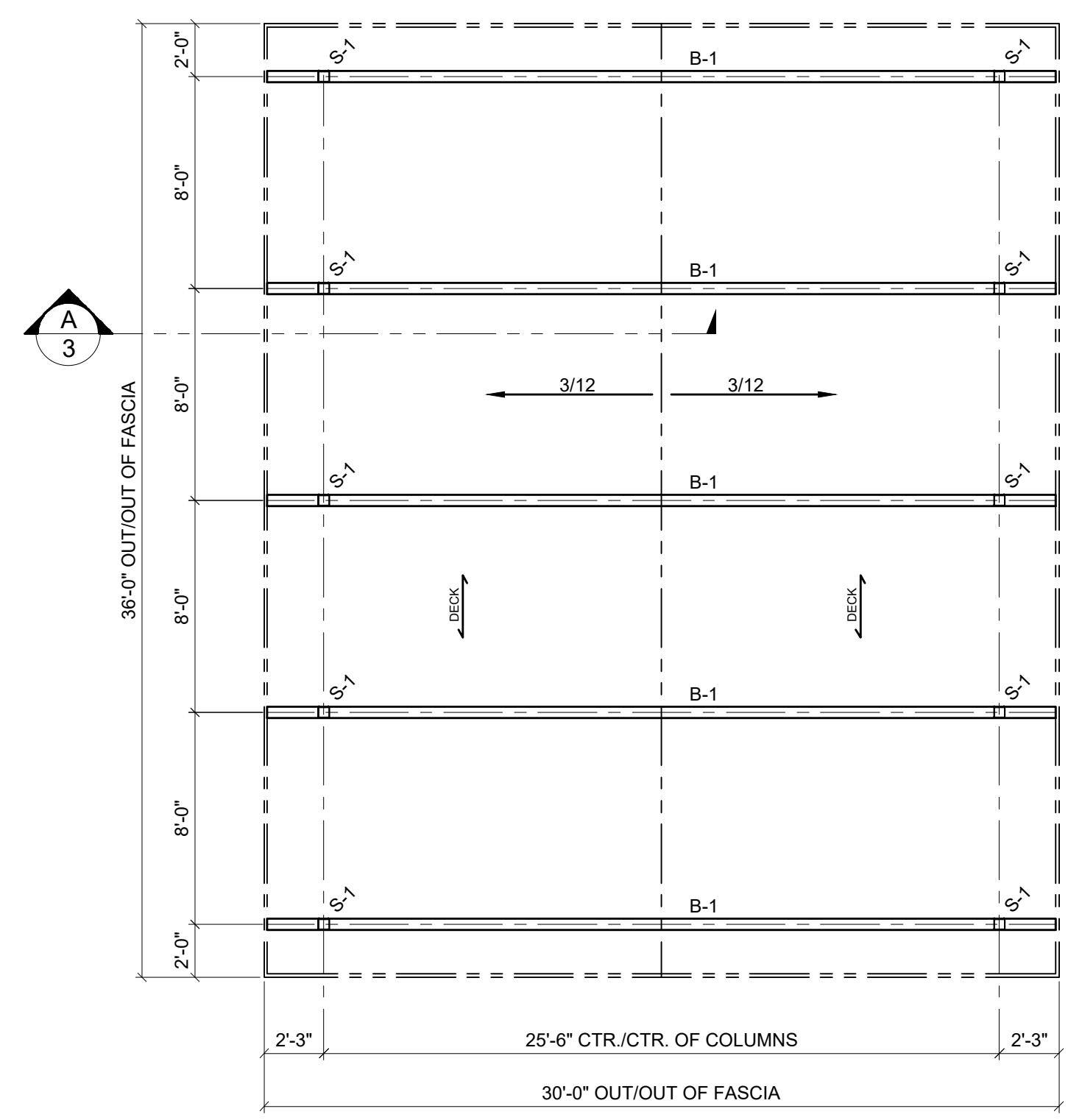
Metal Roofing	0.9 psf
Underlayment	0.1
2" Diaphragm	1.5
2" Nom. T&G Deck	4.6
Misc.	1.9
Total	9 psf + weight of framing

FLOOR LL
 L = 100 psf

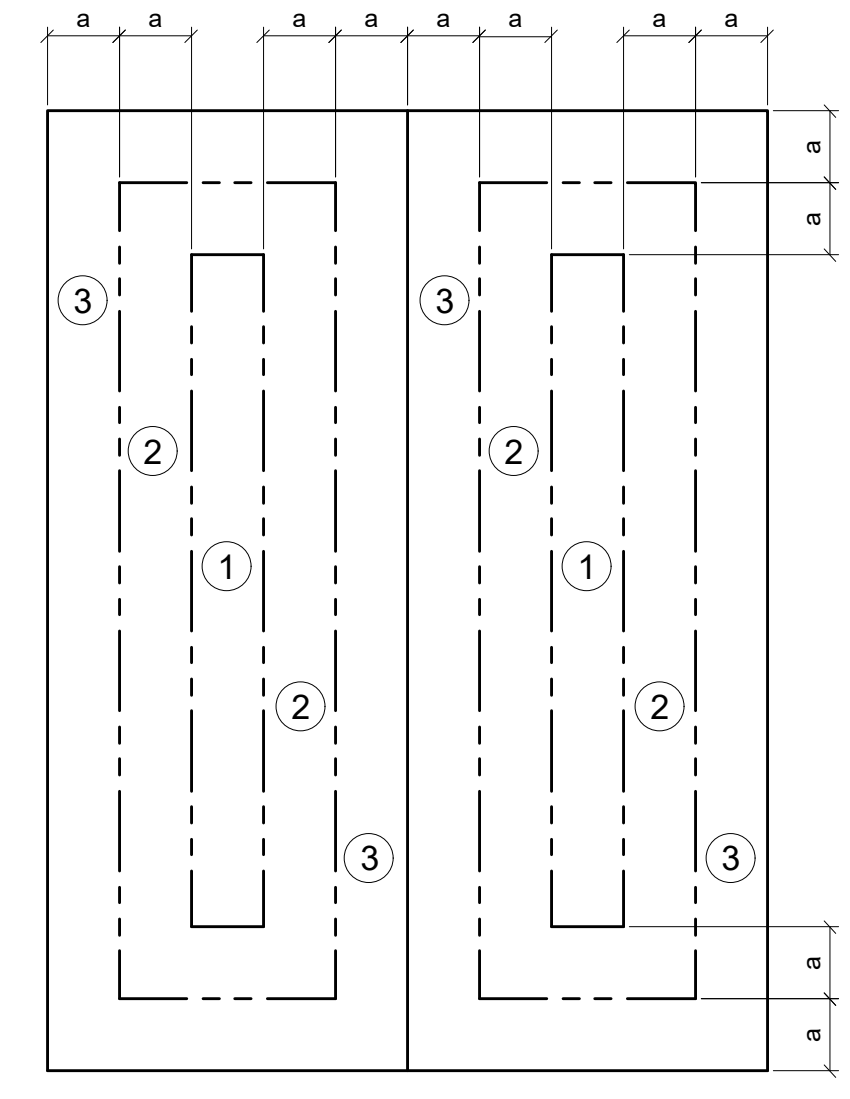
ROOF LL
 L = 20 psf

WIND LOAD
 V_{ult} = 160 mph, V_{asn} = 124 mph
 Exposure 'C', Open Building w/ GC_e = 0
 Component & Cladding Ultimate Wind Pressures: See Sheet #1

SEISMIC
 I_e = 1.0
 S_{DS} = 0.050, S_{S1} = 0.029
 Site Class D (assumed)
 S_{DS} = 0.054, S_{S1} = 0.046
 Seismic Design Category A
 Minimum Lateral Force Procedure
 F_v = 0.01*w.



ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"



ROOF PLAN
 a = 3'-0"

ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION
1	44.3 PSF	44.8 PSF
2	68.4 PSF	68.9 PSF
3	88.5 PSF	98.5 PSF

UNLOADING, HANDLING, & STORAGE OF GLU-LAM & DECKING

LAMINATED MEMBERS ARE WRAPPED FOR PROTECTION IN TRANSIT. THE ERECTOR IS RESPONSIBLE FOR PROTECTION OF MATERIALS AT ALL TIMES AFTER ARRIVAL AT DESTINATION. IF STORED TEMPORARILY, MEMBERS SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND & SEPARATED WITH WOOD STRIPS SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER. COVER THE TOP & SIDES WITH MOISTURE RESISTANT PAPER OR OPAQUE PLASTIC. USE NON-MARRING SLINGS WHEN HANDLING. ROOF COVERING SHOULD BE APPLIED SOON AFTER ERECTION. PROTECTIVE WRAPPING SHOULD REMAIN ON THE MEMBERS UNTIL DECK HAS BEEN INSTALLED & ROOFING APPLIED. HOWEVER, IF THE PAPER HAS BEEN TORN OR PARTIALLY REMOVED DURING STORAGE OR ERECTION, IT SHOULD BE REPLACED OR ENTIRELY REMOVED TO PREVENT DISCOLORATION OF LAM MEMBERS BY SUNLIGHT.

LAMINATED MEMBERS RECEIVE ONE FACTORY APPLIED COAT OF CLEAR WOOD SEALER. (FACTORY STAIN IS OPTIONAL AT EXTRA COST). IF THEY SHOULD BECOME WET DURING SHIPMENT OR INSTALLATION, OR IF THEY ARE CLEANED IN ANY WAY, THESE LAMINATED MEMBERS SHOULD BE UNIFORMLY RESEALED BEFORE ADDITIONAL STAINING OR FINISHING IS DONE IN THE FIELD.

DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY TWO TONS. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS.

IT IS THE ERECTORS RESPONSIBILITY TO TALLY THE DECKING UPON ARRIVAL. NOTIFY "MANUFACTURER" AT ONCE OF ANY SHORTAGES.

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

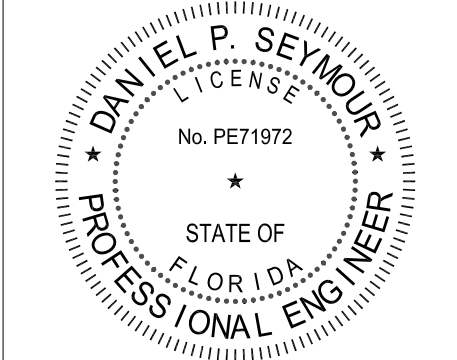
METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

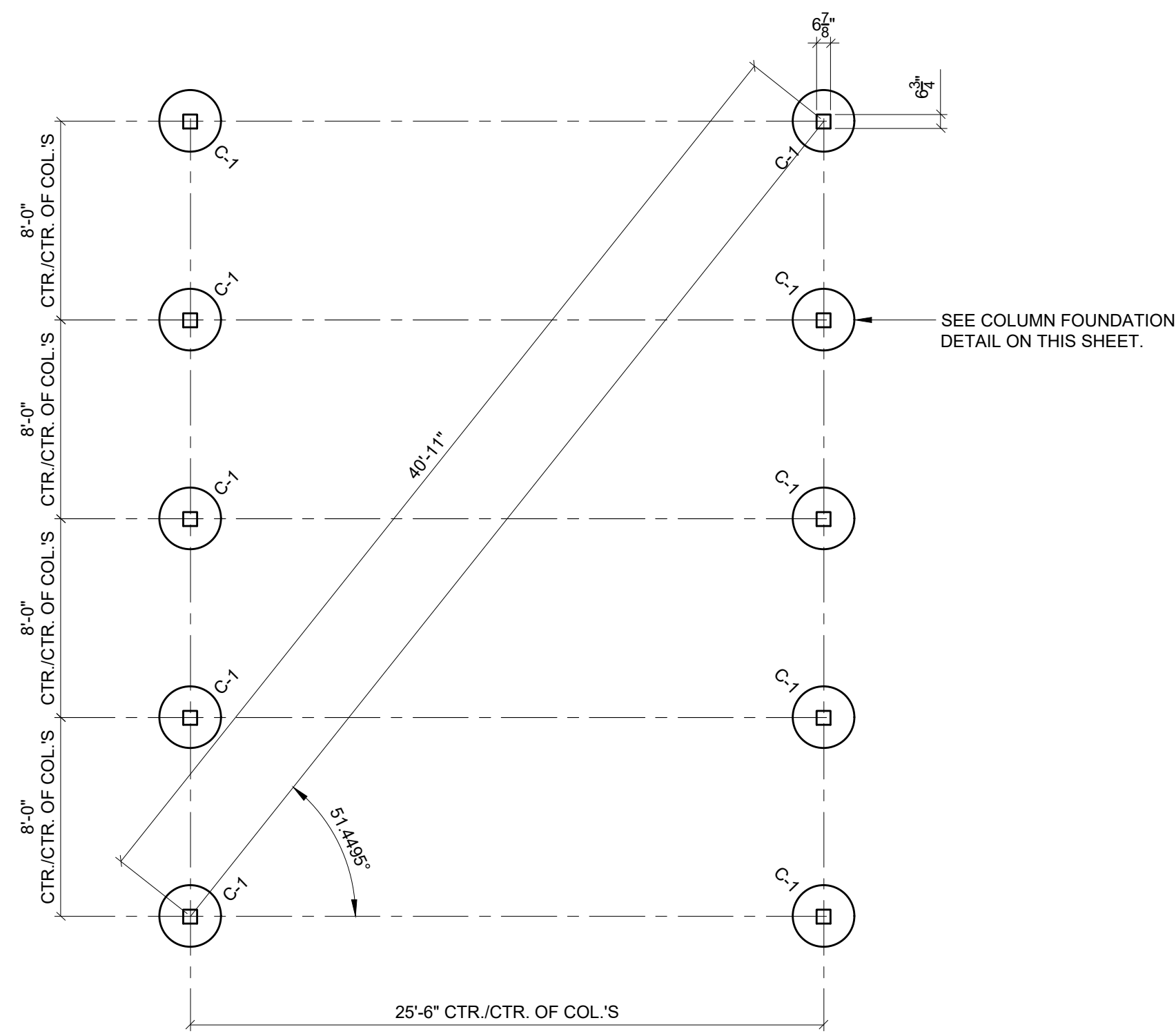
DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. SEYMOUR, P.E. ON 01/03/22.

DESIGN CERTIFICATION FOR:
 BUILDING SIZE: 30' x 36'
 BUILDING LOCATION: VERO BEACH, FL
 THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS, INC. AND ONLY IF MATERIALS ARE PAID FOR IN FULL.
 IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, INC., OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL & VOID.

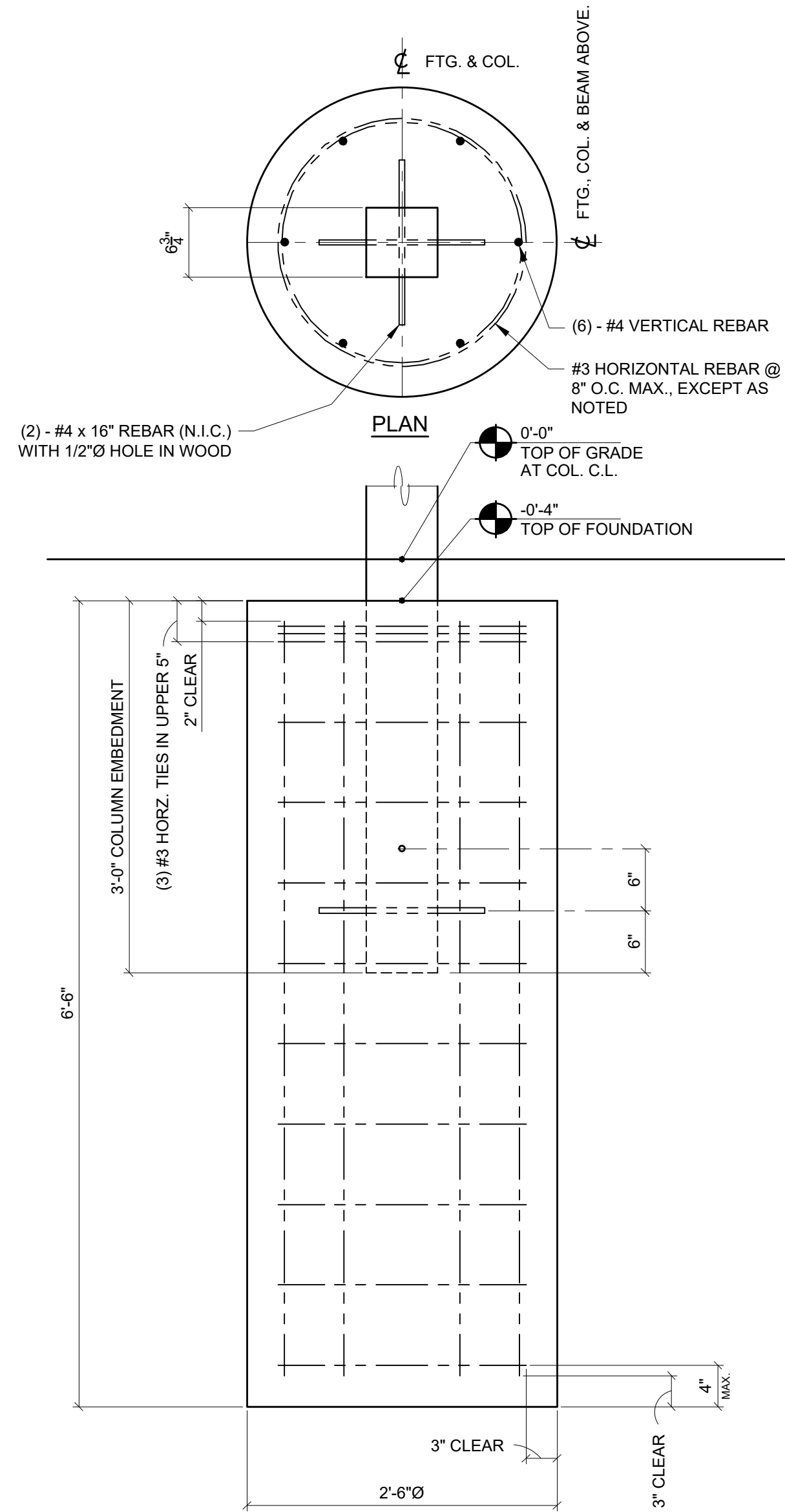
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 Enterprise Engineering Consultants, LTD.
 710 French Street
 Peshigo, WI 54157
 FL Corp. Certificate No.: F00000005724
 FL PE. NO.: 71972





FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

COLUMN BASE REACTIONS:	
↑	$V_{DL+3/4(L+0.6*WL)} = 4,800\#$
↓	$V_{0.6DL+0.6*WL \text{ UPLIFT}} = -1,800\#$
→	$H_{DL+0.6*WL} = 1,000\#$
⤵	$M_{0.1, DL+0.6*WL} = 7,450\#-ft$



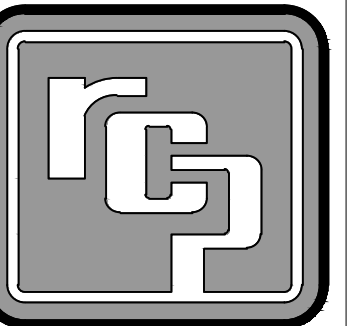
- CONCRETE NOTES:**
- Excavate the very loose sand within the proposed building limits and five feet beyond the perimeter of the building and replace with structural fill in accordance with the recommendations in the geotechnical report prepared by KSM Engineering and Testing dated 9-16-2020.
 - Footings are to bear on undisturbed, natural soil or engineered fill and to be compacted to 95% Proctor density.
 - Concrete foundation, re-bar, leveling nuts, grout & anchor bolts (if required) are N.I.C.
 - All concrete reinforcing steel to be grade 60, deformed bars.
 - F'_c of concrete to be 3000 psi @ 28 days.
 - All concrete work to be in accordance w/ latest ACI code.
 - Allowable vertical soil bearing pressure = 2000 psf per geotech report. Assumed allowable passive lateral soil bearing = 150 pcf. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).
 - Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

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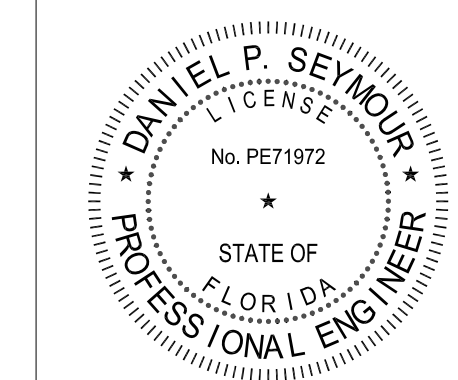
LW-G3036-03
HALLSTROM FARMSTEAD
VERO BEACH, FL

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PROJ. NO.: **21-304-A**

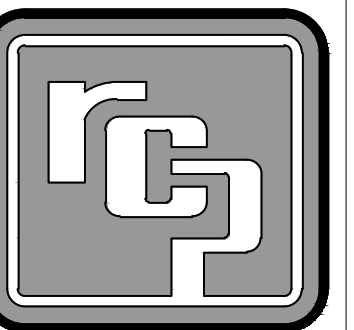
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REV 1:	
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REV 4:	
SHOP DWG NO.:	21-304-A2
EEC JOB NO.:	14184 R
SHEET NO.:	

LW-G3036-03
HALLSTROM FARMSTEAD
VERO BEACH, FL

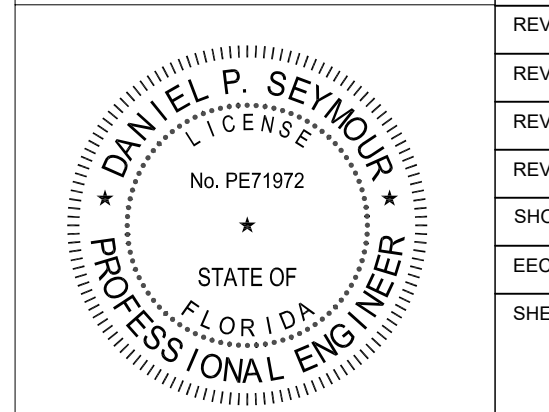
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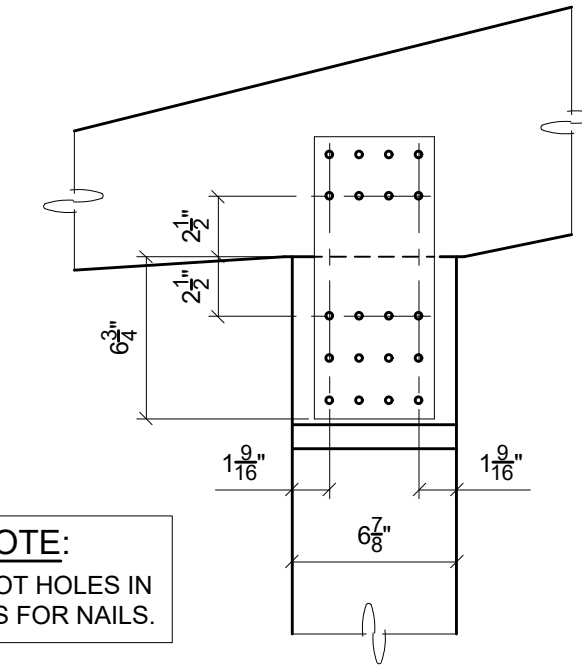


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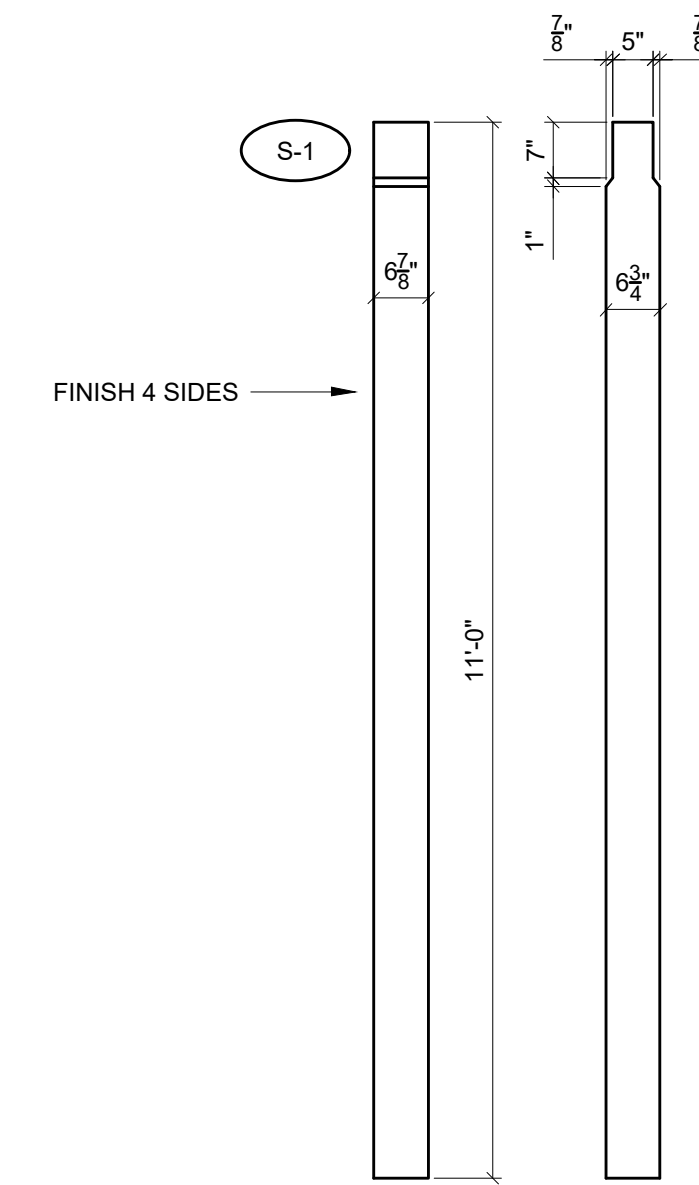
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SHEET NO.:		



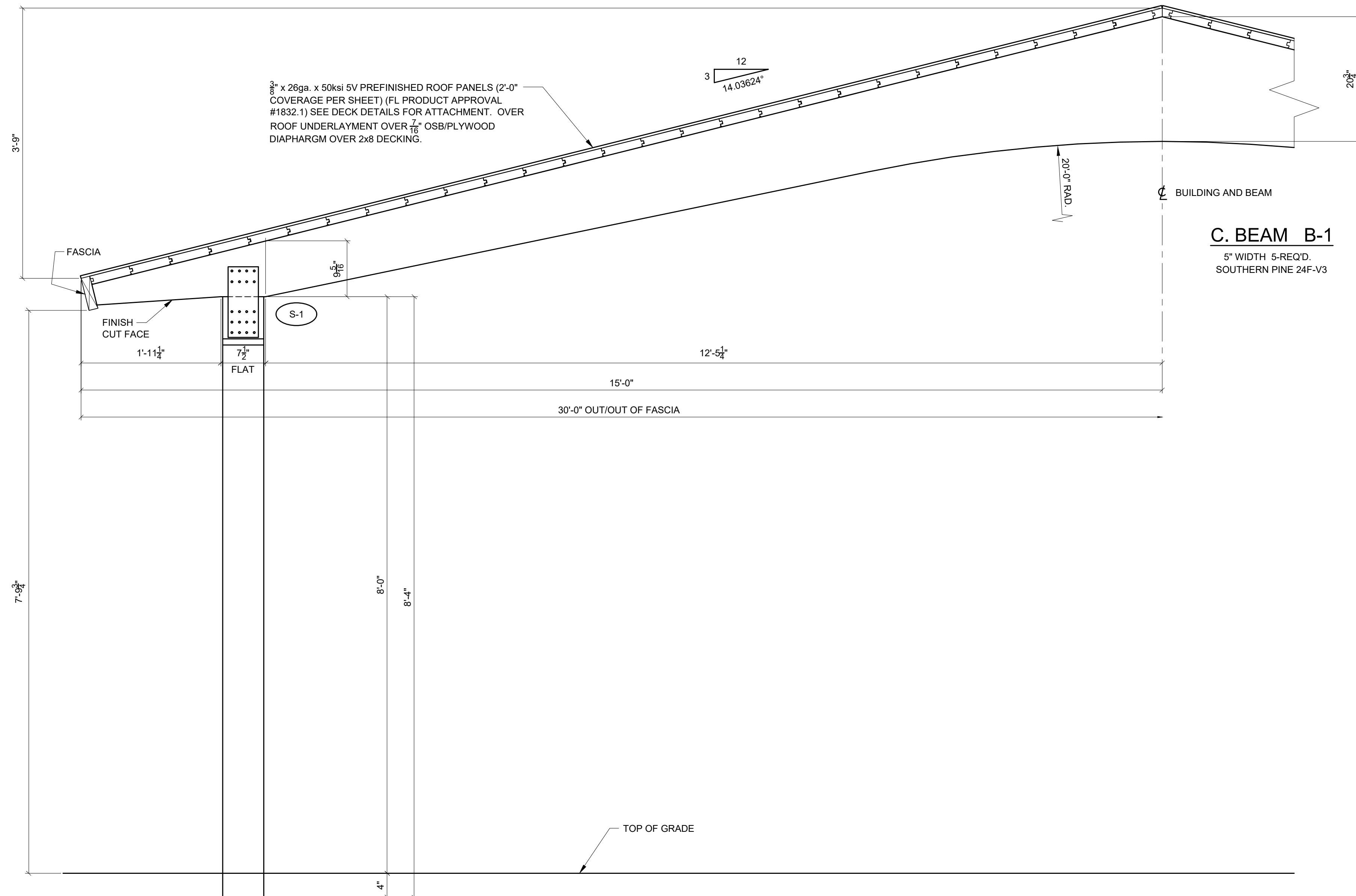
ERECTOR NOTE:
 DRILL 5/32" Ø PILOT HOLES IN WOOD MEMBERS FOR NAILS.

CONN S-1 10-req'd.

- 2 - MK-1 PLATE (SP000005x11A00.2500)
- 40 - 4 GA. x 2 1/2" ANNULAR RING NAIL, GALV.



COL. C-1 6 3/4" x 6 7/8"
10-REQ'D. TRT'D - #50 (1:10)



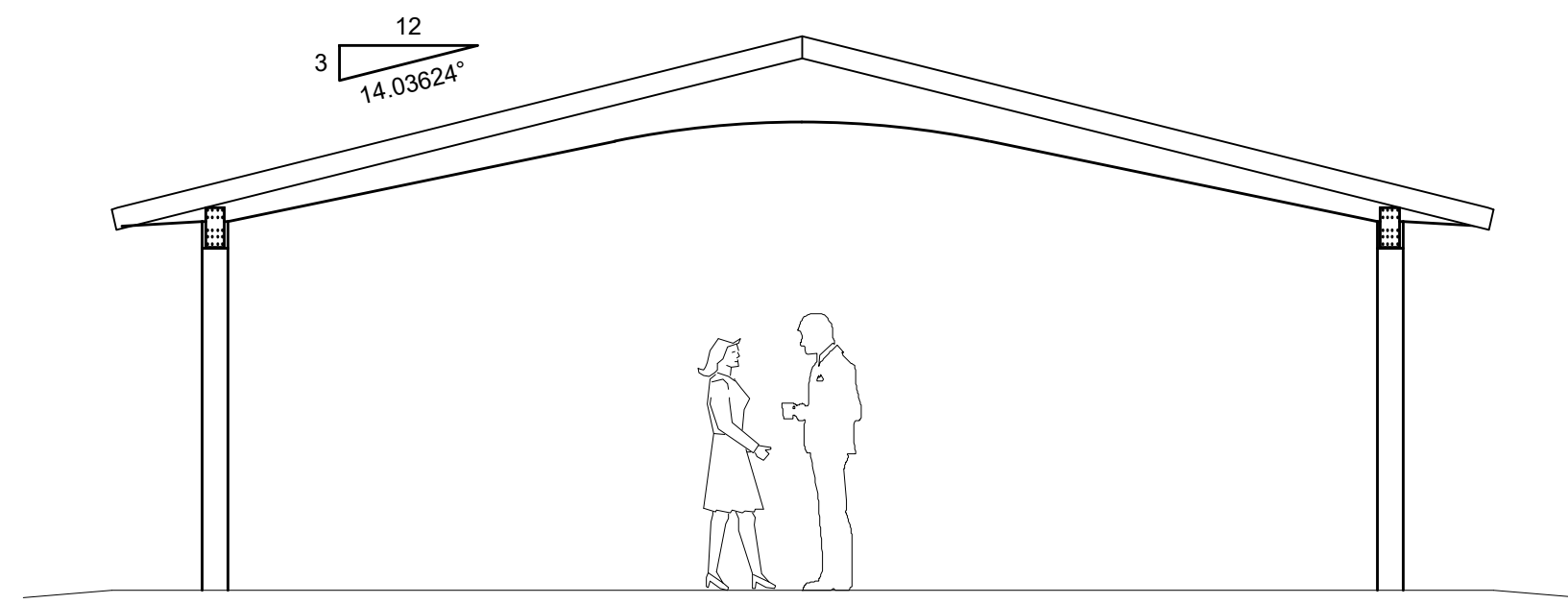
3/8" x 26ga. x 50ksi 5V PREFINISHED ROOF PANELS (2'-0" COVERAGE PER SHEET) (FL PRODUCT APPROVAL #1832.1) SEE DECK DETAILS FOR ATTACHMENT. OVER ROOF UNDERLAYMENT OVER 7/16" OSB/PLYWOOD DIAPHRAGM OVER 2x8 DECKING.

C. BEAM B-1
 5" WIDTH 5-REQ'D.
 SOUTHERN PINE 24F-V3

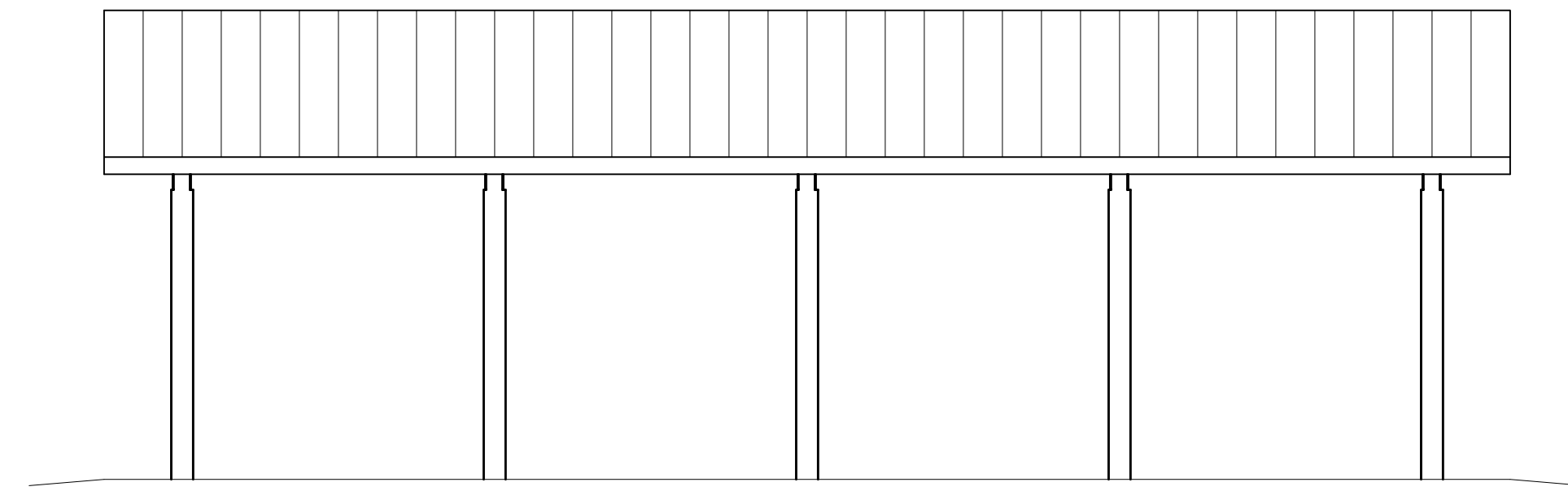
SEE COLUMN FOOTING DETAIL FOR ADDITIONAL INFORMATION.

SECTION A
 SCALE: 1"=1'-0"

LW-G3036-03
HALLSTROM FARMSTEAD
VERO BEACH, FL



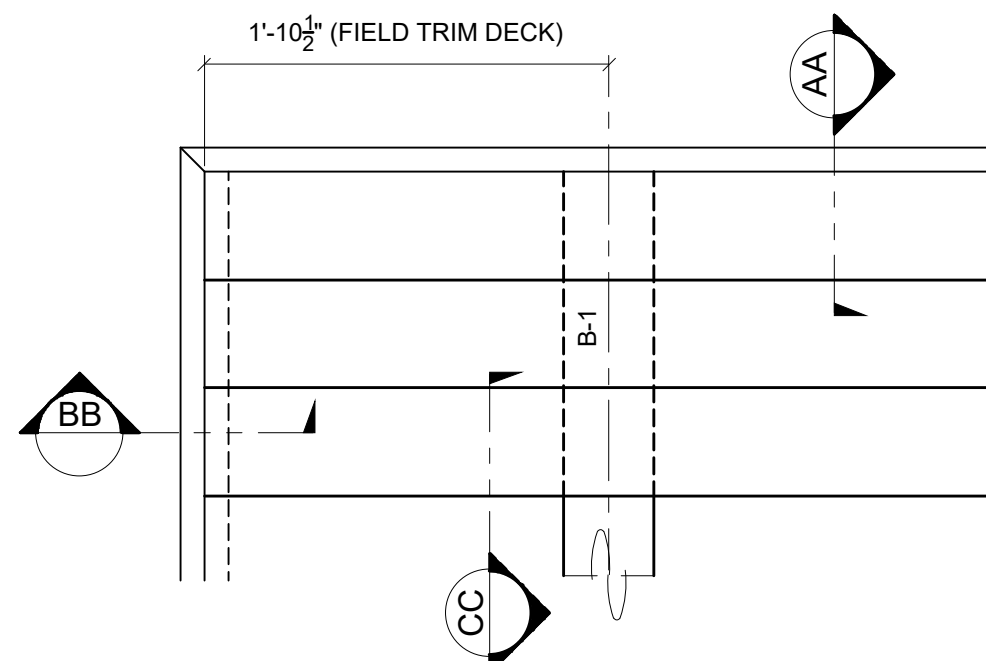
END ELEVATION
 SCALE: 1/4" = 1'-0"



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

TYPICAL DECK LAY-UP

1. START LAYING DECK AT EAVE W/ TONGUES UP.
2. DRIVE COURSES TIGHT W/ BLOCKING.
3. TOE NAIL & FACE NAIL AT EACH SUPPORT (BEAMS) USING 16d COMMON NAILS.
4. SNAP CHALK LINE AT BUILDING RAKE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS, ALTERNATE COURSES 10'16"/10' AND 18'18'



DECK PLAN AT CORNERS

FASCIA NOTES:

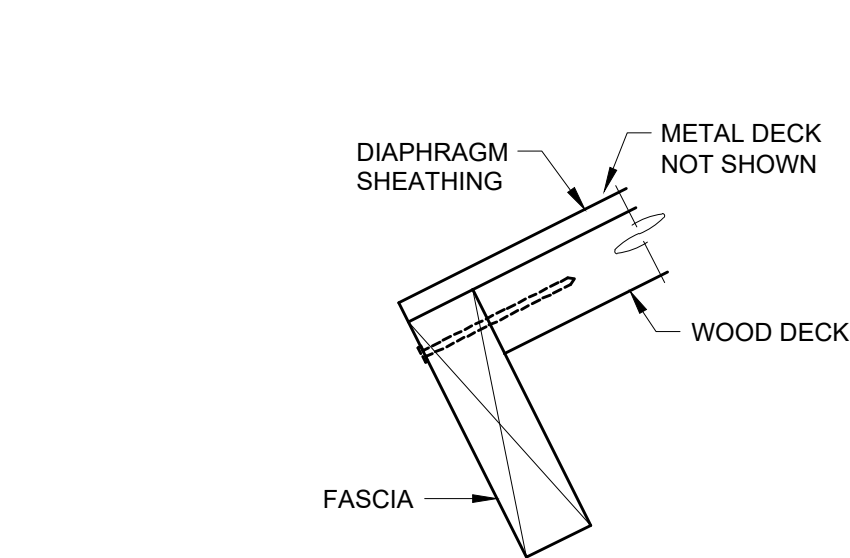
1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAILS A & B FOR SPLICE DETAILS.
3. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO BEAM ENDS - 3 NAILS PER FASCIA
 - c. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - d. AT CORNERS - 2 NAILS EACH DIRECTION
 - e. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

2 x 4 NAILER

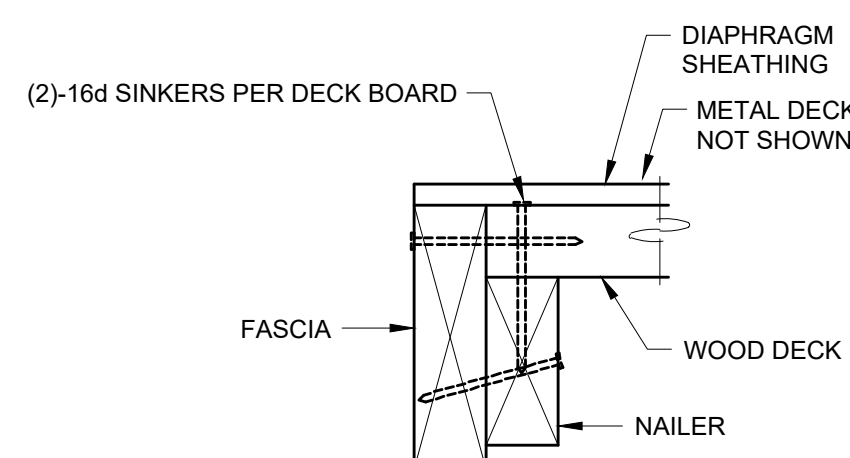
- A. MITER ALL SPLICES
- B. NAIL SPLICES TOGETHER WITH (2) 10d HDG CASING NAILS, DRIVE NAILS AT AN ANGLE TO AVOID PUNCHING THRU FASCIA.

FASCIA LAY-UP

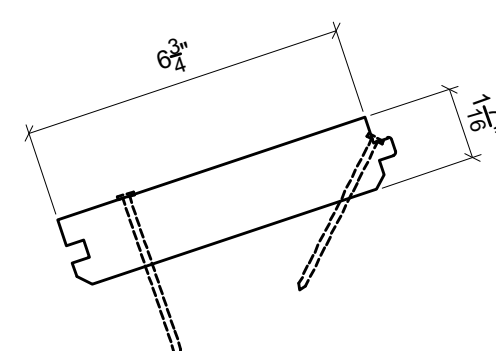
AT EAVE 12"/16"/12"
 AT RAKE 16"



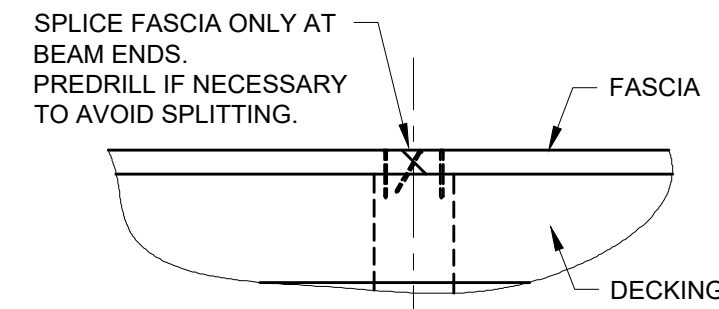
SECTION AA



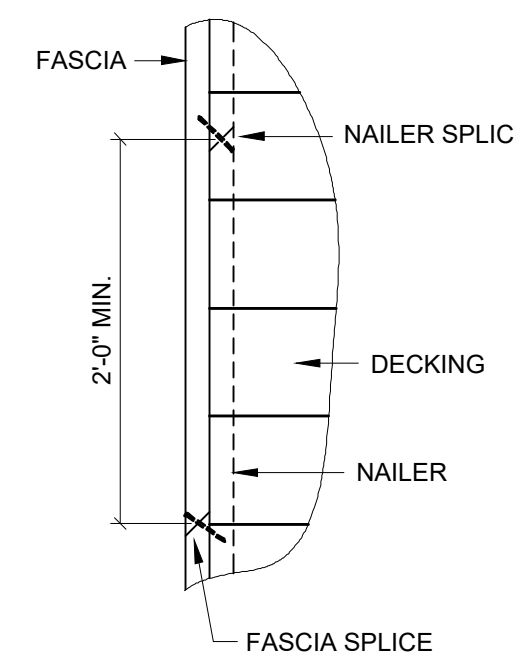
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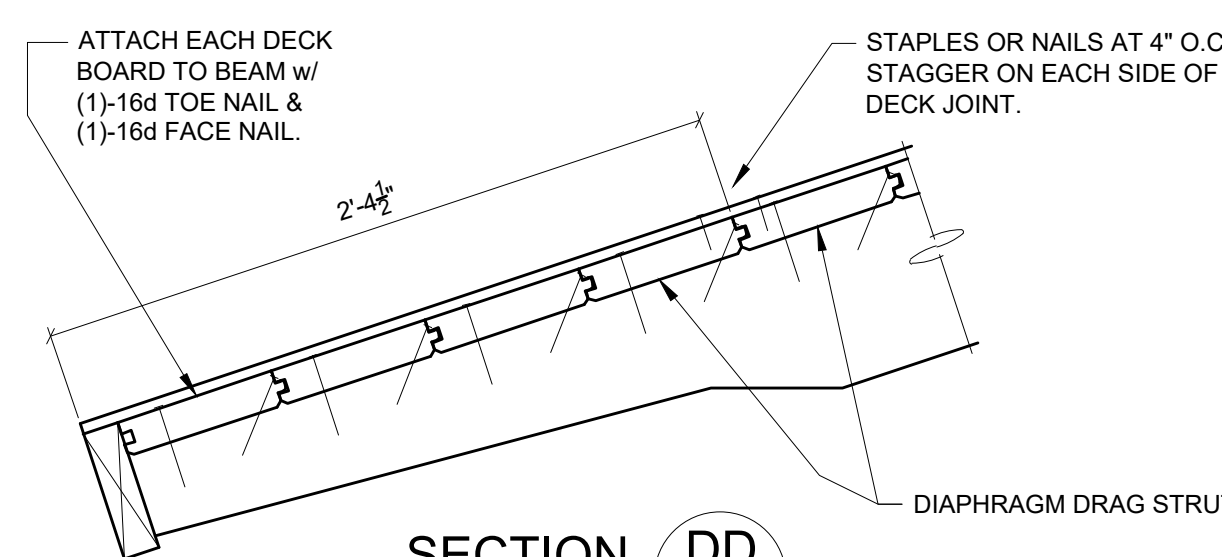
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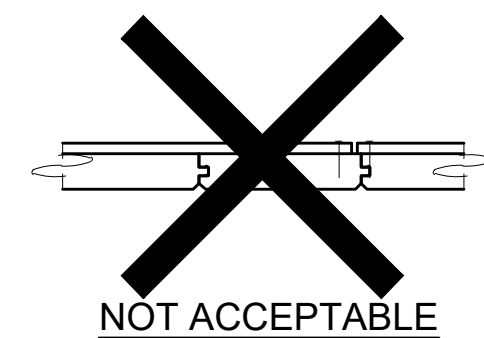
DETAIL A



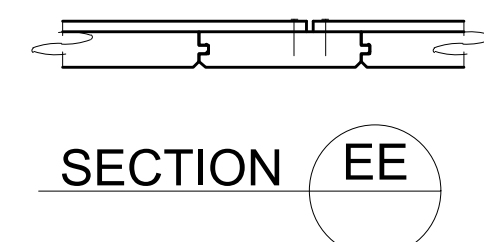
DETAIL B



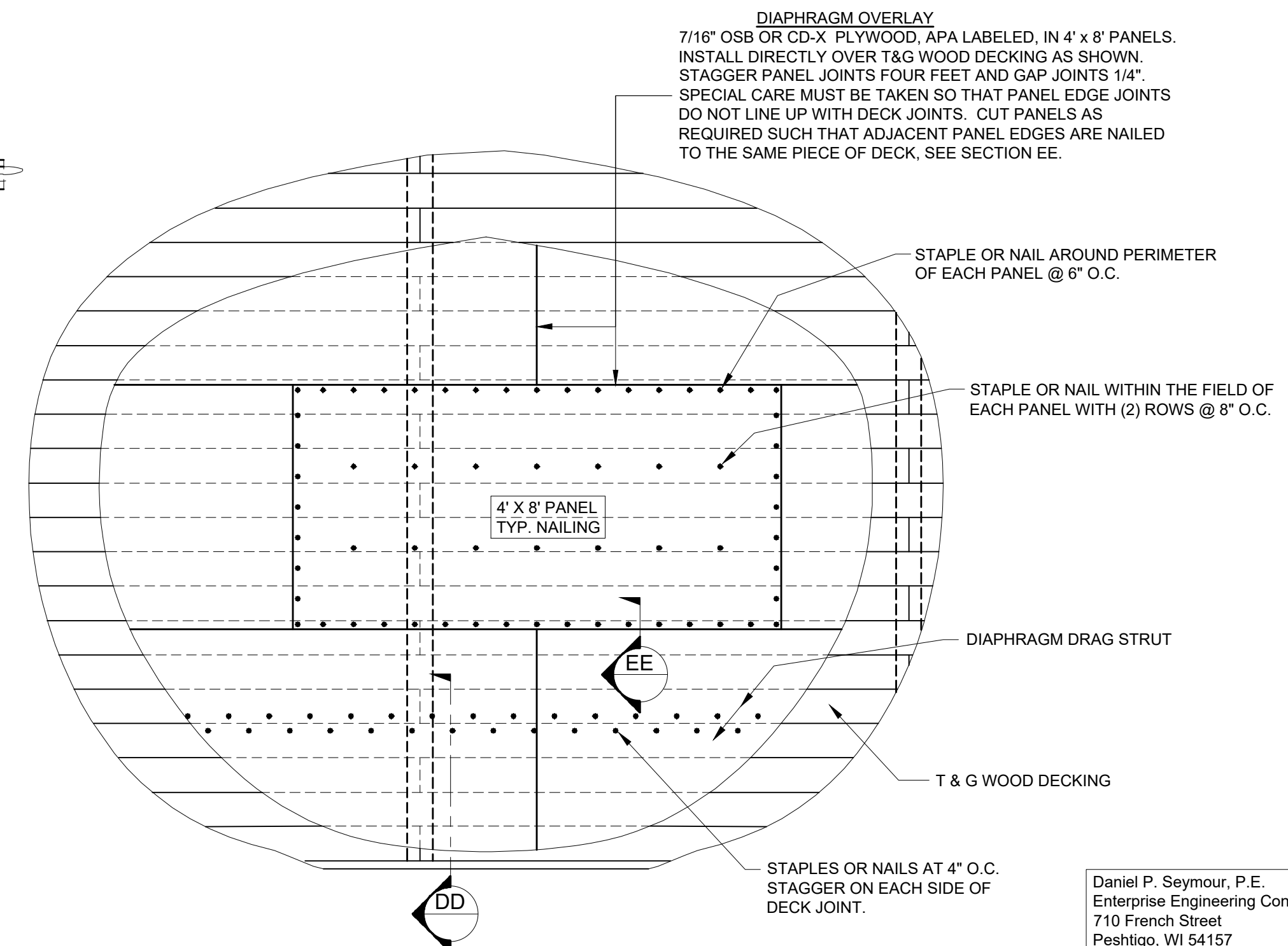
SECTION DD



NOT ACCEPTABLE



SECTION EE



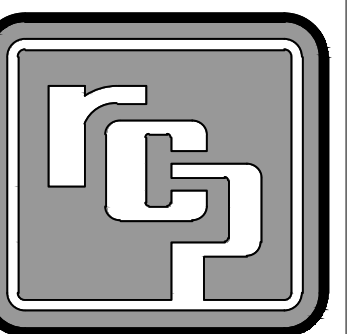
ROOF DIAPHRAGM DETAIL

GENERAL NOTES REGARDING ROOF DIAPHRAGM:

1. T&G DECKING SHALL BE INSTALLED PER SUPPLIER'S SPECIFICATIONS USING COMMON OR RING SHANK NAILS.
2. INSTALL DIAPHRAGM PANELS (PLYWOOD OR OSB) DIRECTLY OVER T&G WOOD DECK. STAGGER JOINTS APPROXIMATELY 4 FT. PROVIDE 1/4" GAP AT ALL JOINTS.
3. STAPLES SHALL BE 16 GAUGE x 1 1/2" WITH 7/16" MIN. O.D. CROWN.
4. STAPLES SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS.
5. NAILS SHALL BE 0.131"Ø x 1 1/2".
6. PROTECT SHEATHING WITH ROOF UNDERLAYMENT IMMEDIATELY AFTER INSTALLATION.

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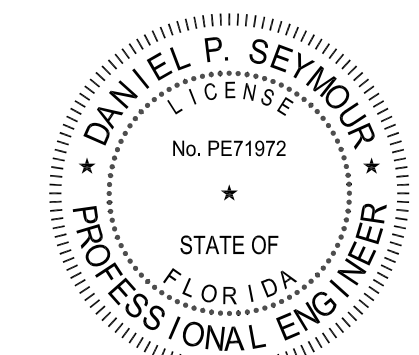
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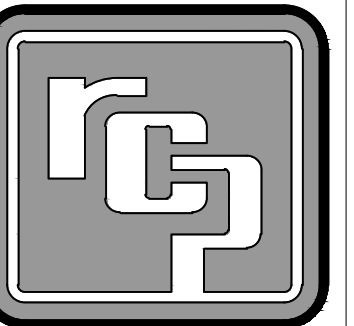
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SHEET NO.:

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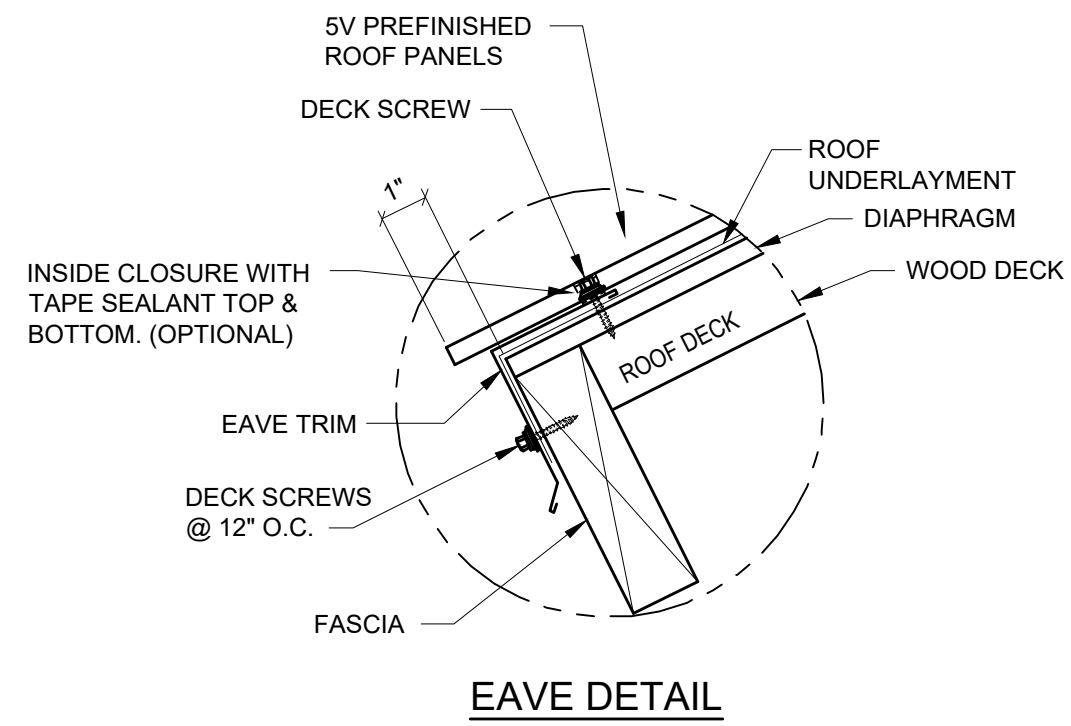
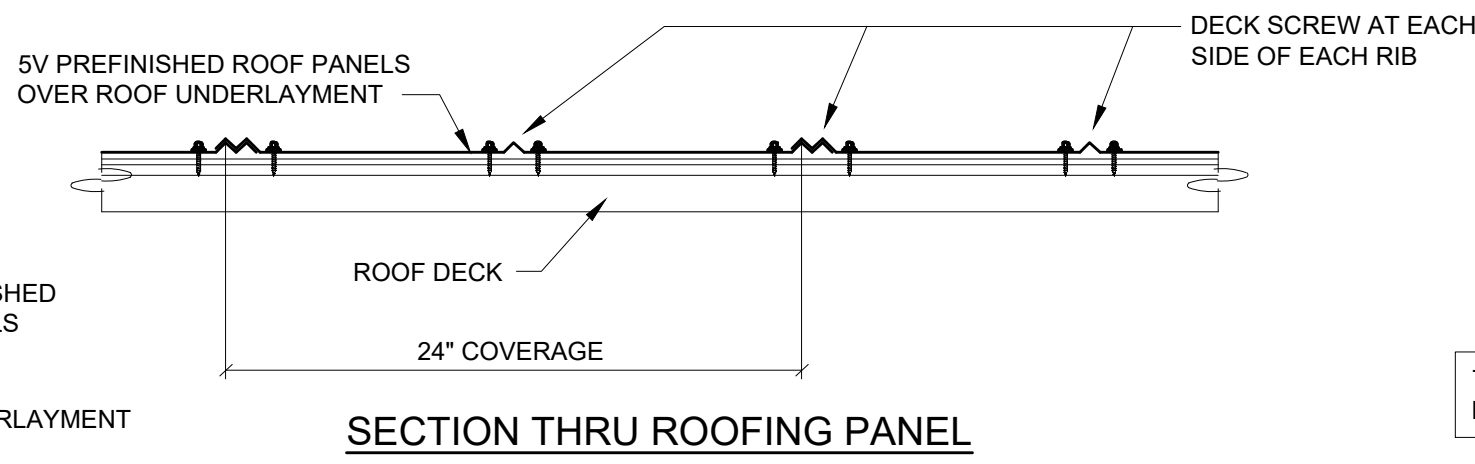
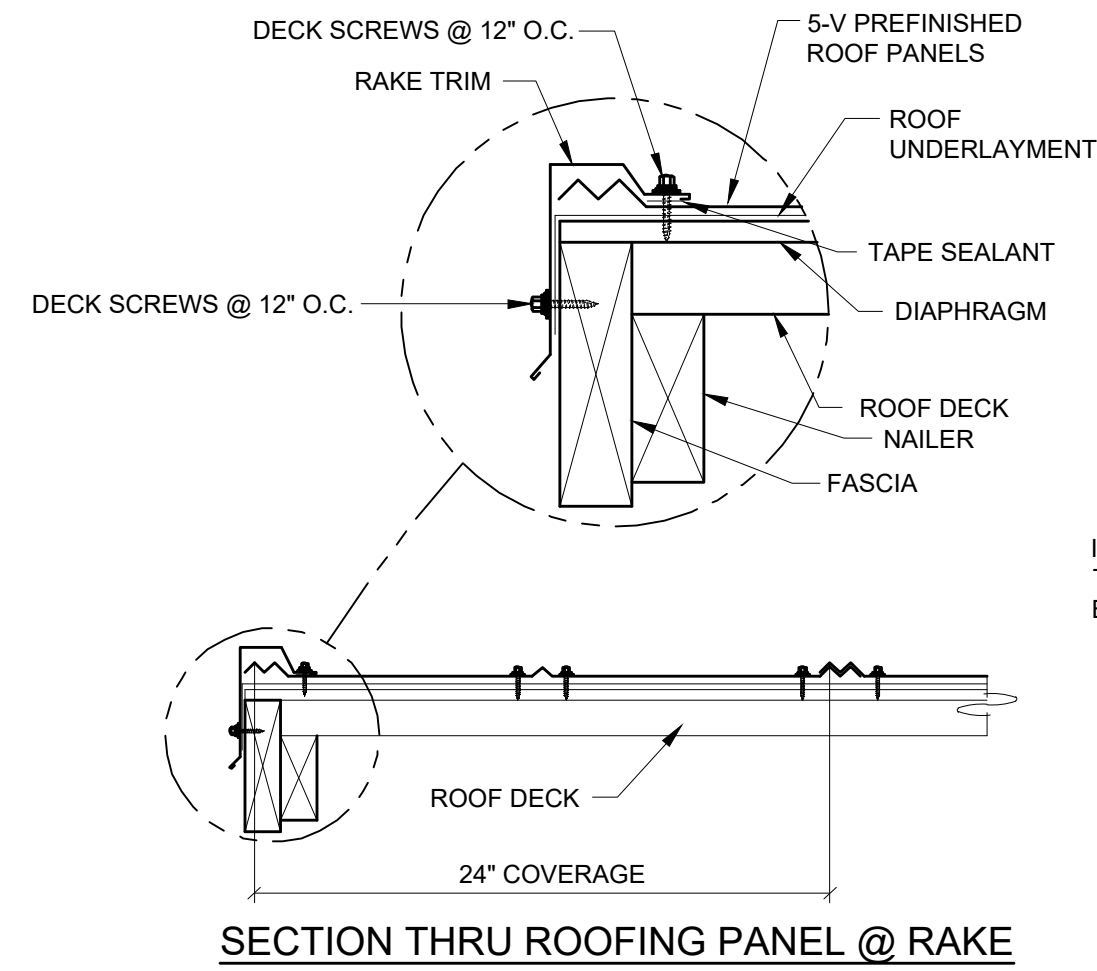
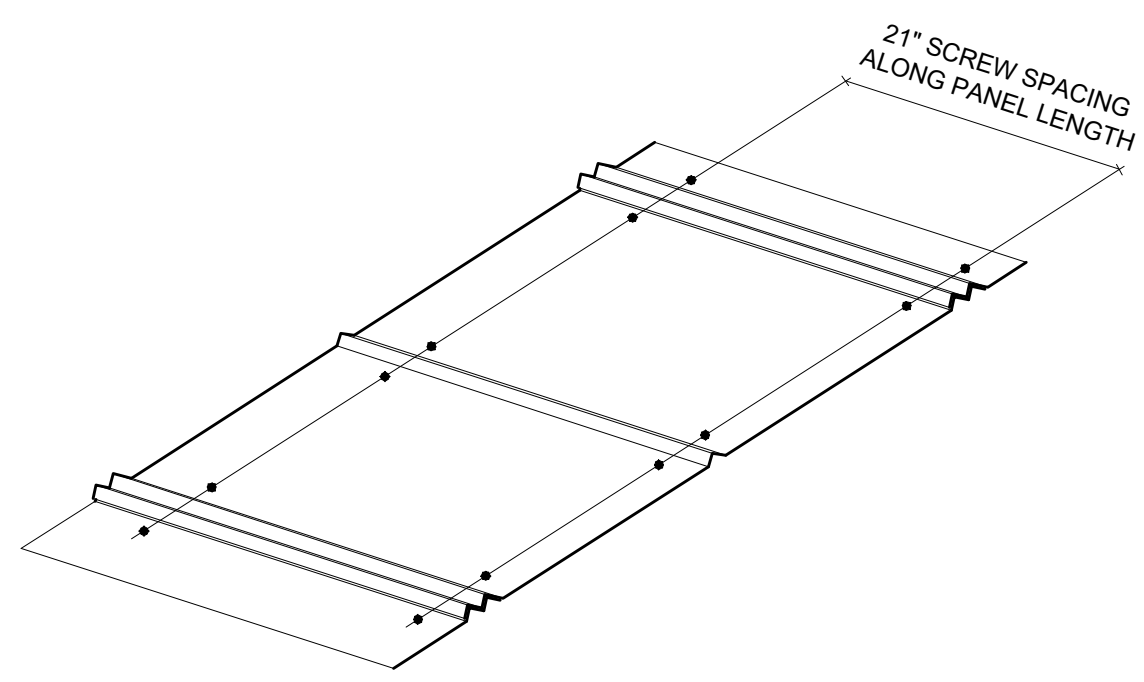
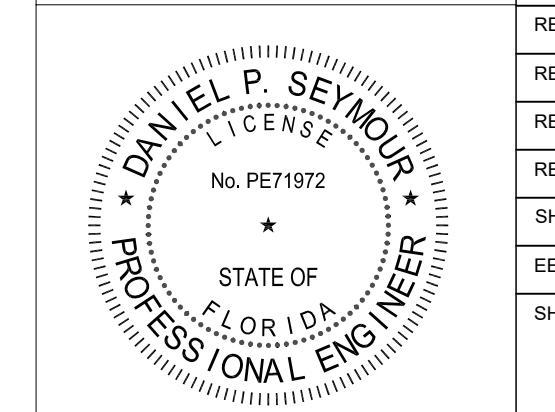




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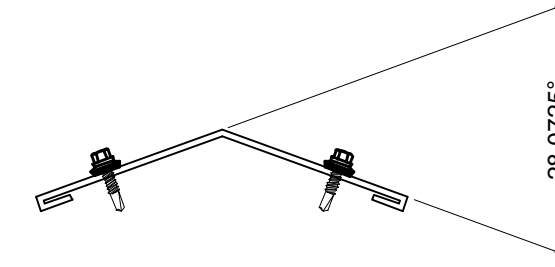
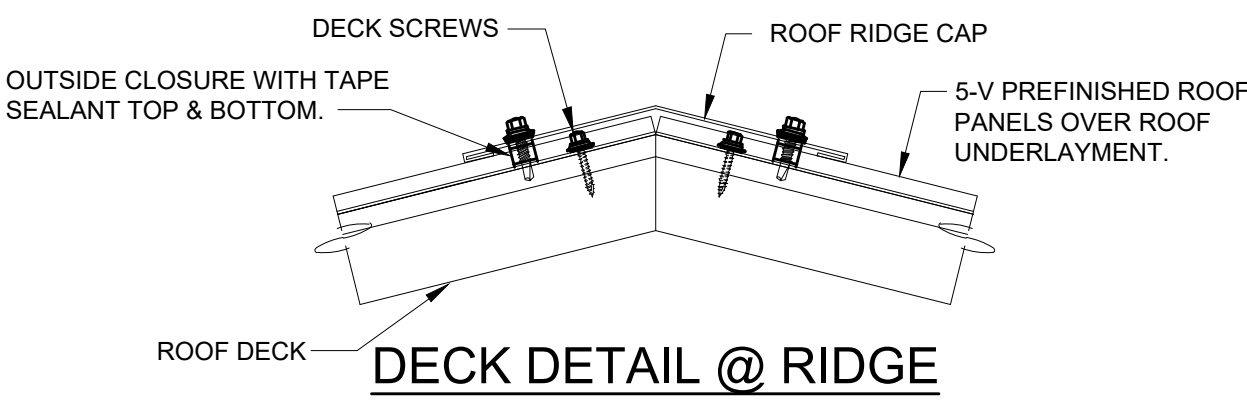
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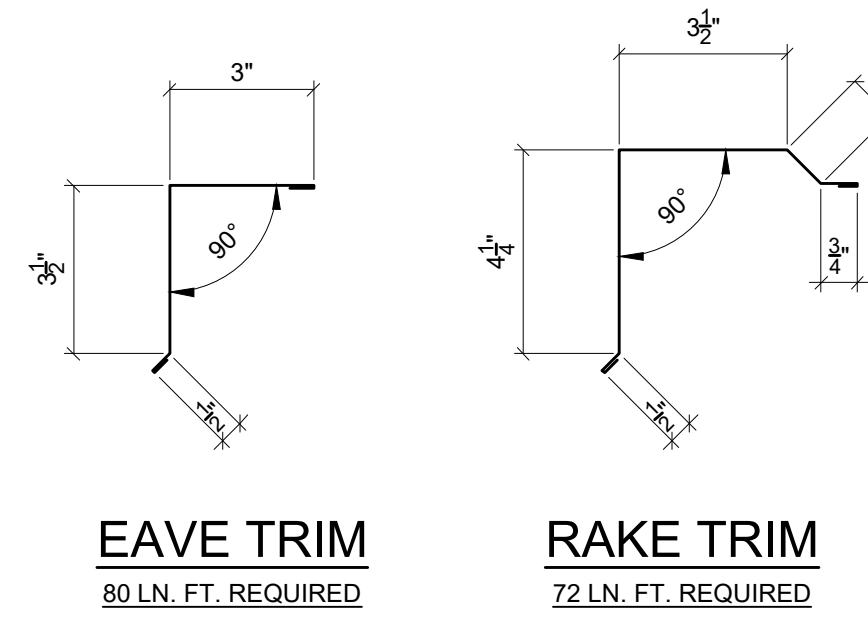


THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.

SELF-DRILLING SCREW SPECIFICATIONS:
 LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD
 DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT



9" RIDGE CAP
 40 LN. FT. REQUIRED
 INSTALLATION: FASTEN RIDGE CAP TO EACH ROOFING PANEL AT HIGH RIB. (1) LAP SCREW PER RIB, PER SIDE.



EAVE TRIM
 80 LN. FT. REQUIRED

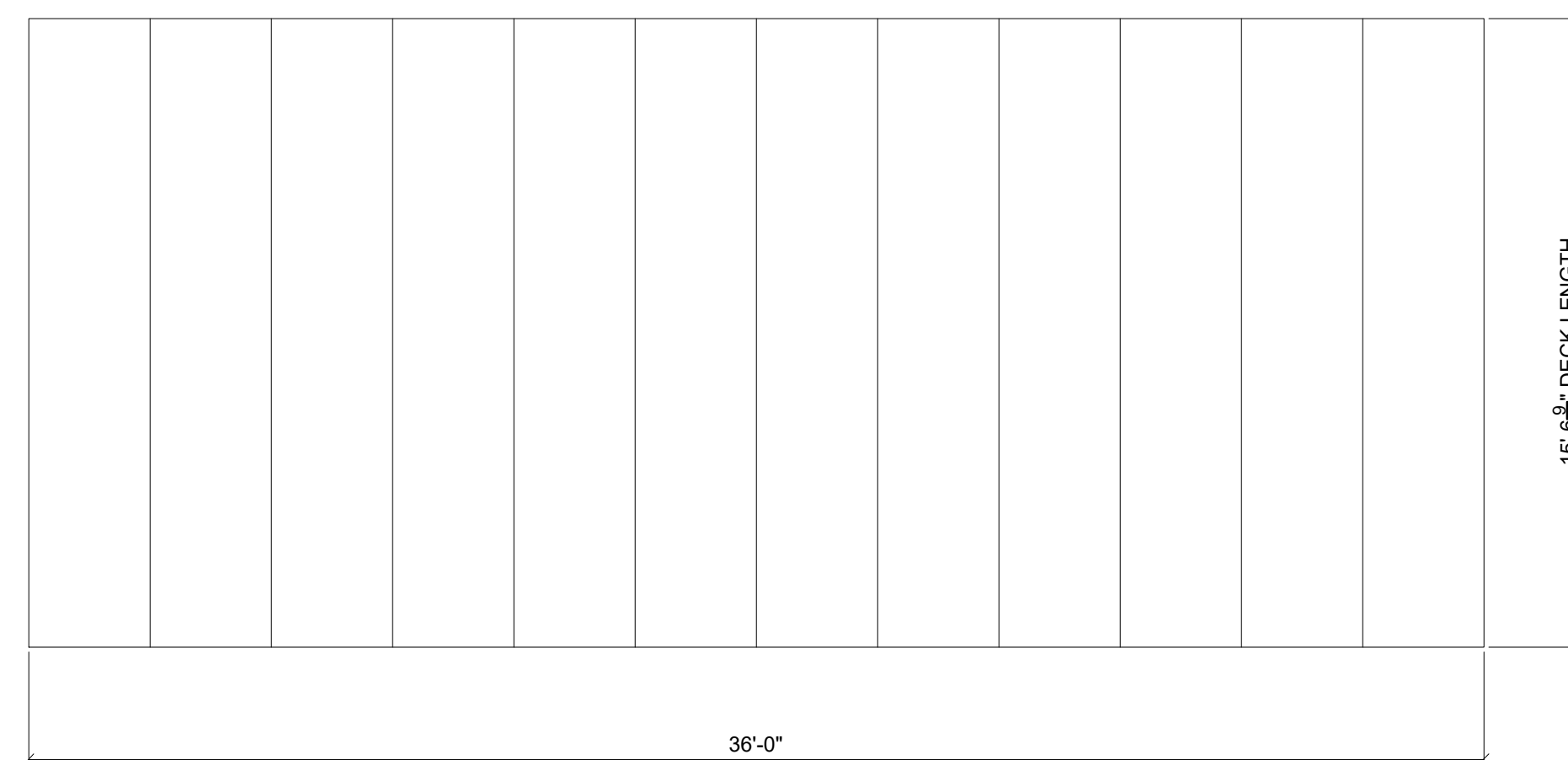
RAKE TRIM
 72 LN. FT. REQUIRED

METAL ROOFING NOTES:

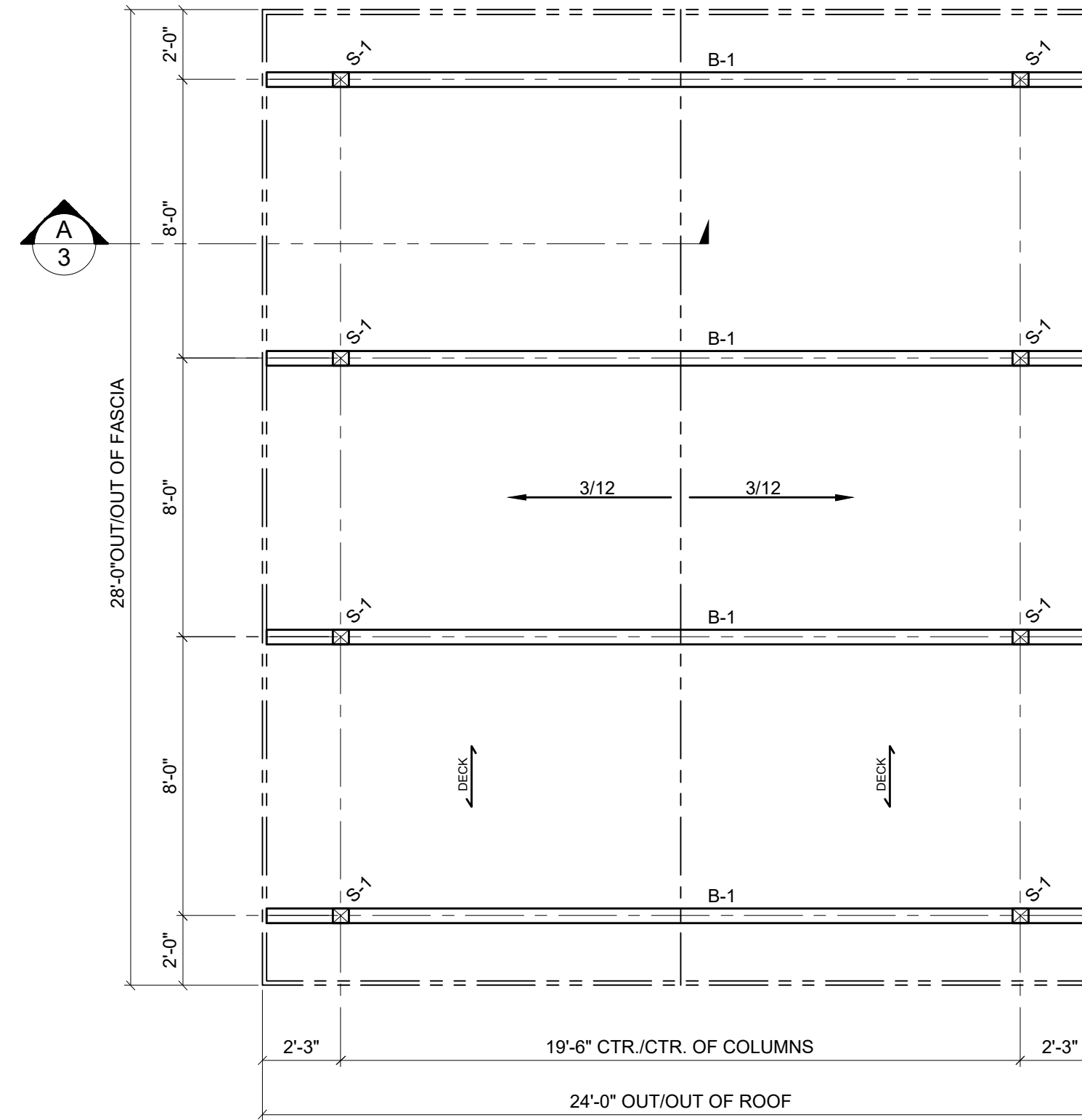
CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

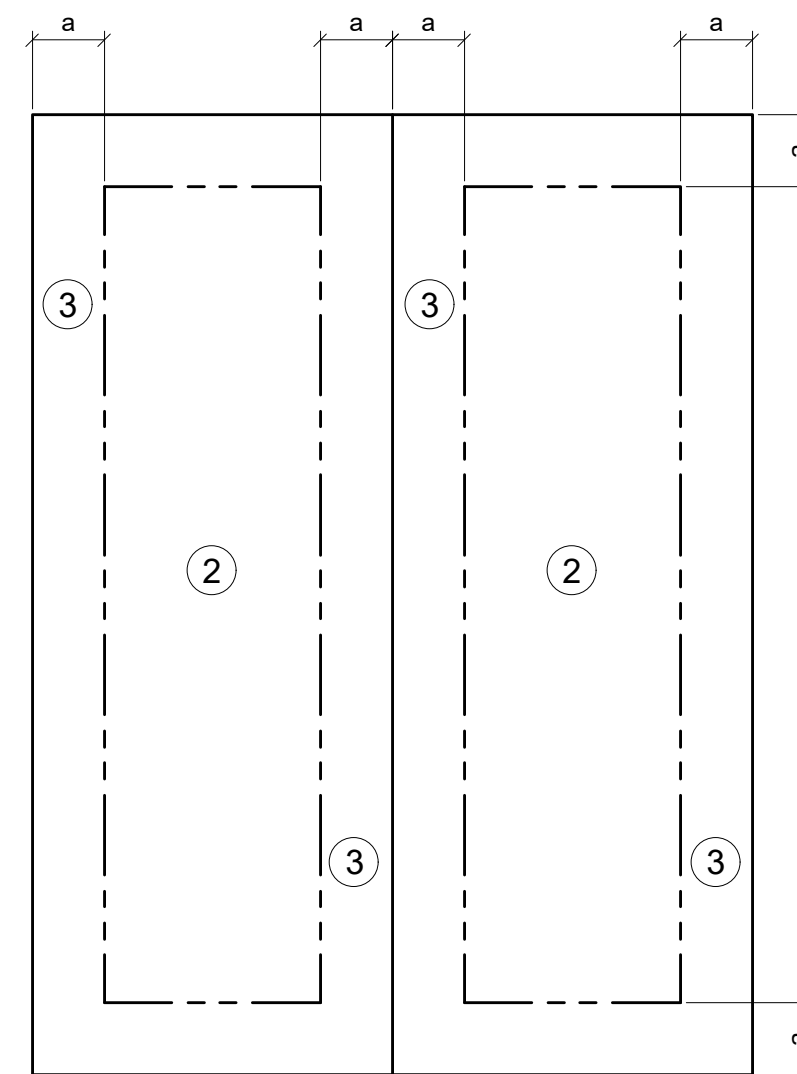


TRUE PLAN AT ROOF PLANE 2-REQ'D
 SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN

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



ROOF PLAN

a = 3'-0"

CONTRACT NOTE:

Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

LAMINATED WOOD SPECIFICATIONS:

SPECIES ----- SOUTHERN PINE
 LAMINATION THICKNESS ----- 2" NOMINAL
 STRESS COMBINATION ----- SEE MEMBER DETAILS
 ADHESIVE ----- RESORCINOL
 APPEARANCE GRADE ----- ARCHITECTURAL
 FINISH ----- SEAL & STAIN; COLOR = _____
 PROTECTION ----- INDIVIDUAL WRAP
 PRESERVATIVE TREATMENT -- CCA 0.4 PCF (MIN) RETENTION @ COLUMNS, TREATED PRIOR TO GLUING
 HARDWARE ----- PER DETAILS & LIST

SOLID TIMBER SPECIFICATIONS

2 x 4 Nailer ----- #1 SYP, S4S, KD, Seal & Stain; color = _____
 2 x 6 Fascia ----- #1 AYC, S4S, KD, Seal & Stain; color = _____
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, Seal & Stain; color = _____
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:

TWO LAYERS OF COVERPRO 2000 SYNTHETIC UNDERLAYMENT (FL PRODUCT APPROVAL 17873.2).
 ATTACH UNDERLAYMENT IN COMPLIANCE WITH PRODUCT APPROVAL
 OR BUILDING CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

WOOD SHOP NOTES:

1. Materials, Manufacture and Quality Control of glulam shall be in conformance with, "American National Standard for Wood Products-Structural Glued Laminated Timber ANSI A190.1-2017".
2. Members shall be marked (in an unseen location) with an AITC or APA/EWS Quality Mark and, in addition, an AITC or APA/EWS Certificate of Conformance shall be provided to indicate conformance with "ANSI A190.1-2017".

STEEL & HARDWARE SHOP NOTES:

1. All steel plate to be ASTM A572 Grade 50.
2. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
3. All fabricated steel to be powder coated; color selected by owner.
4. Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:

All wood members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Pre-drill wood for screws and nails if necessary to avoid splitting.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:

Florida Building Code 7th Ed. (2020)
 Type of Construction: Type V-B
 Occupancy Classification: Assembly A-3
 Building Risk Category II
 Mean Roof Height = 9'-8"
 Building Volume = 6,500 ft³
 No. of Occupants = 44 (15 ft² per person)

ROOF DL

Metal Roofing	0.9 psf
Underlayment	0.1
2" Nom. T&G Deck	4.6
Misc.	1.4
Total	7 psf + weight of framing

FLOOR LL

L = 100 psf

ROOF LL

L = 20 psf

WIND LOAD

V_{ult} = 160 mph, V_{add} = 124 mph
 Exposure 'C', Open Building w/ GC₀ = 0
 Component & Cladding Ultimate Wind Pressures: See Sheet #1

SEISMIC

I_e = 1.0
 S_s = 0.050, S₁ = 0.029
 Site Class D (assumed)
 S_{DS} = 0.054, S_{D1} = 0.046
 Seismic Design Category A
 Minimum Lateral Force Procedure
 F_x = 0.01*w_x

ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION
2	68.4 PSF	68.9 PSF
3	88.5 PSF	98.5 PSF

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. SEYMOUR, P.E. ON 01/03/22.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

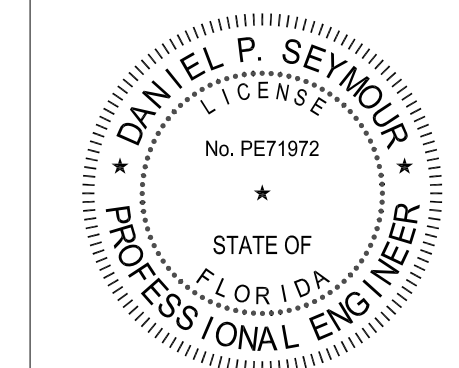
Daniel P. Seymour, P.E.
 Enterprise Engineering Consultants, LTD.
 710 French Street
 Peshigo, WI 54157
 FL Corp. Certificate No.: F00000005724
 FL PE. NO.: 71972

DESIGN CERTIFICATION FOR:

BUILDING SIZE: 24' x 28'
 BUILDING LOCATION: VERO BEACH, FL

THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS, INC. AND ONLY IF MATERIALS ARE PAID FOR IN FULL.

IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, INC., OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL & VOID.



UNLOADING, HANDLING, & STORAGE OF GLU-LAM & DECKING

LAMINATED MEMBERS ARE WRAPPED FOR PROTECTION IN TRANSIT. THE ERECTOR IS RESPONSIBLE FOR PROTECTION OF MATERIALS AT ALL TIMES AFTER ARRIVAL AT DESTINATION. IF STORED TEMPORARILY, MEMBERS SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND & SEPARATED WITH WOOD STRIPS SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER. COVER THE TOP & SIDES WITH MOISTURE RESISTANT PAPER OR OPAQUE PLASTIC. USE NON-MARRING SLINGS WHEN HANDLING. ROOF COVERING SHOULD BE APPLIED SOON AFTER ERECTION. PROTECTIVE WRAPPING SHOULD REMAIN ON THE MEMBERS UNTIL DECK HAS BEEN INSTALLED & ROOFING APPLIED. HOWEVER, IF THE PAPER HAS BEEN TORN OR PARTIALLY REMOVED DURING STORAGE OR ERECTION, IT SHOULD BE REPLACED OR ENTIRELY REMOVED TO PREVENT DISCOLORATION OF LAM MEMBERS BY SUNLIGHT.

LAMINATED MEMBERS RECEIVE ONE FACTORY APPLIED COAT OF CLEAR WOOD SEALER. (FACTORY STAIN IS OPTIONAL AT EXTRA COST). IF THEY SHOULD BECOME WET DURING SHIPMENT OR INSTALLATION, OR IF THEY ARE CLEANED IN ANY WAY, THESE LAMINATED MEMBERS SHOULD BE UNIFORMLY RESEALED BEFORE ADDITIONAL STAINING OR FINISHING IS DONE IN THE FIELD.

DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY TWO TONS. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS.

IT IS THE ERECTOR'S RESPONSIBILITY TO TALLY THE DECKING UPON ARRIVAL. NOTIFY "MANUFACTURER" AT ONCE OF ANY SHORTAGES.

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

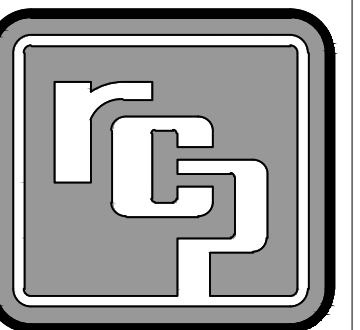
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DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

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 HALLSTROM FARMSTEAD
 VERO BEACH, FL

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PROJ. NO.:
21-304-B

DRAWN: DPS 1-3-22

CHKD:

REV 1:

REV 2:

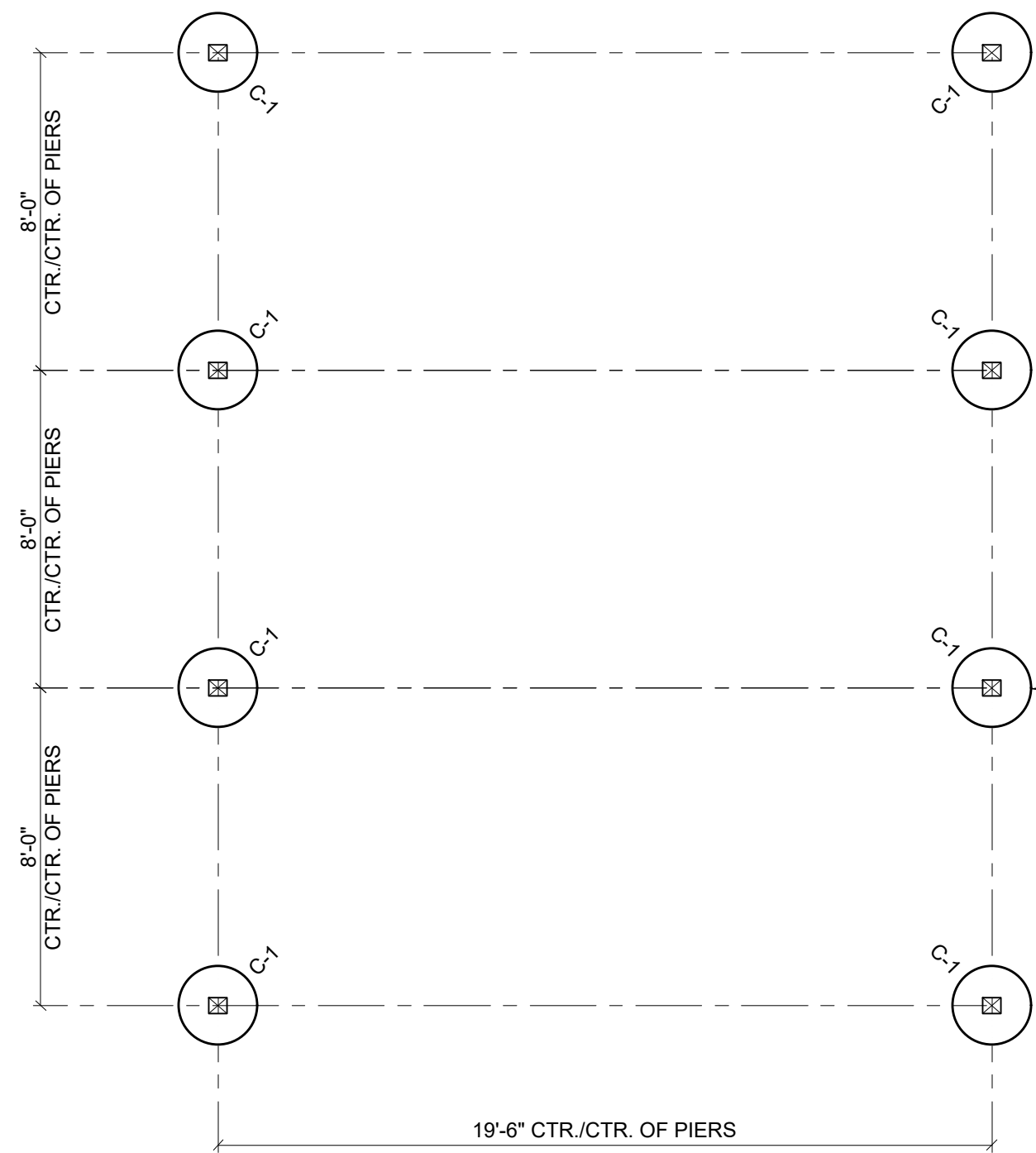
REV 3:

REV 4:

SHOP DWG NO.: 21-304-B

EEC JOB NO.: 14185 R

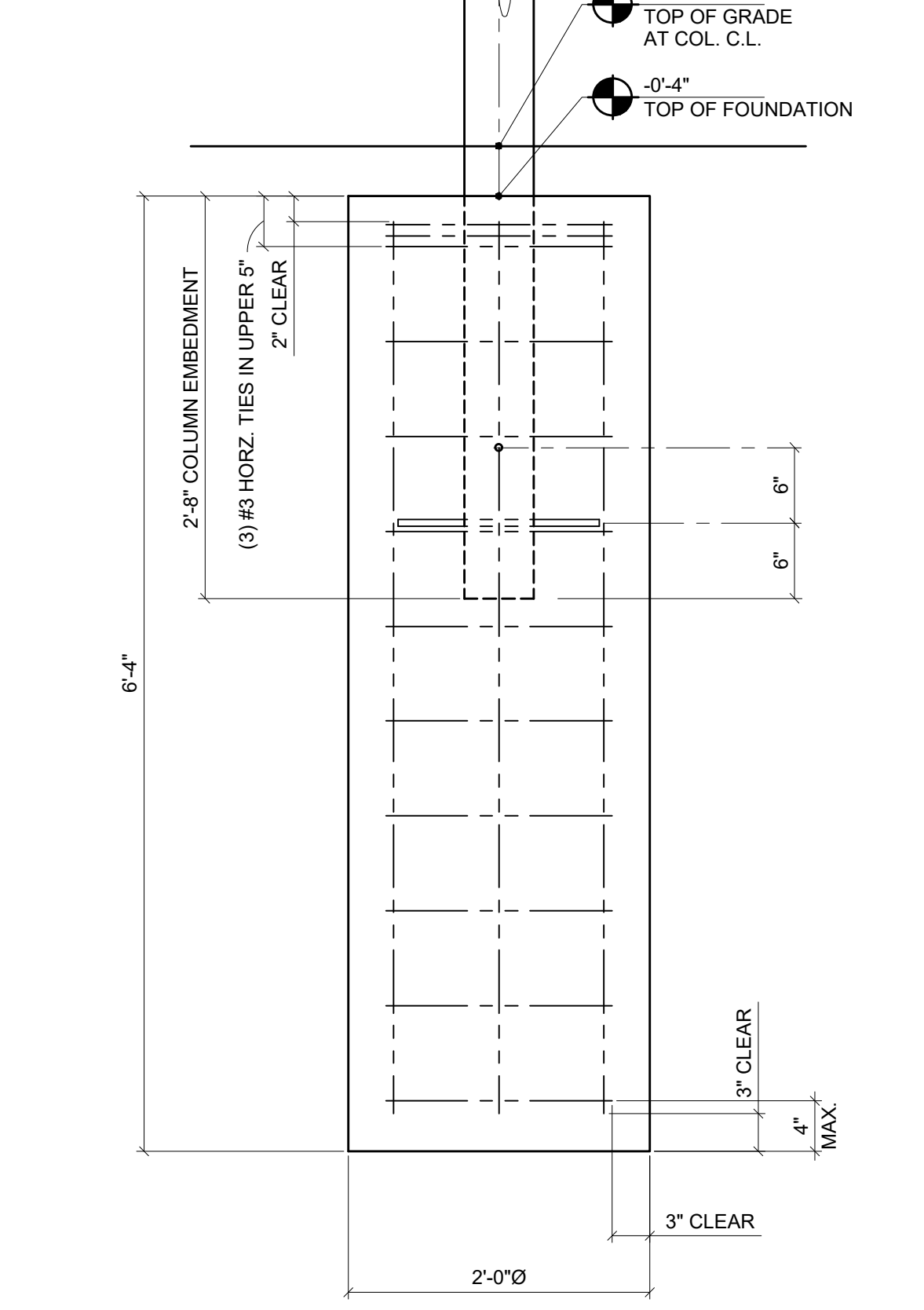
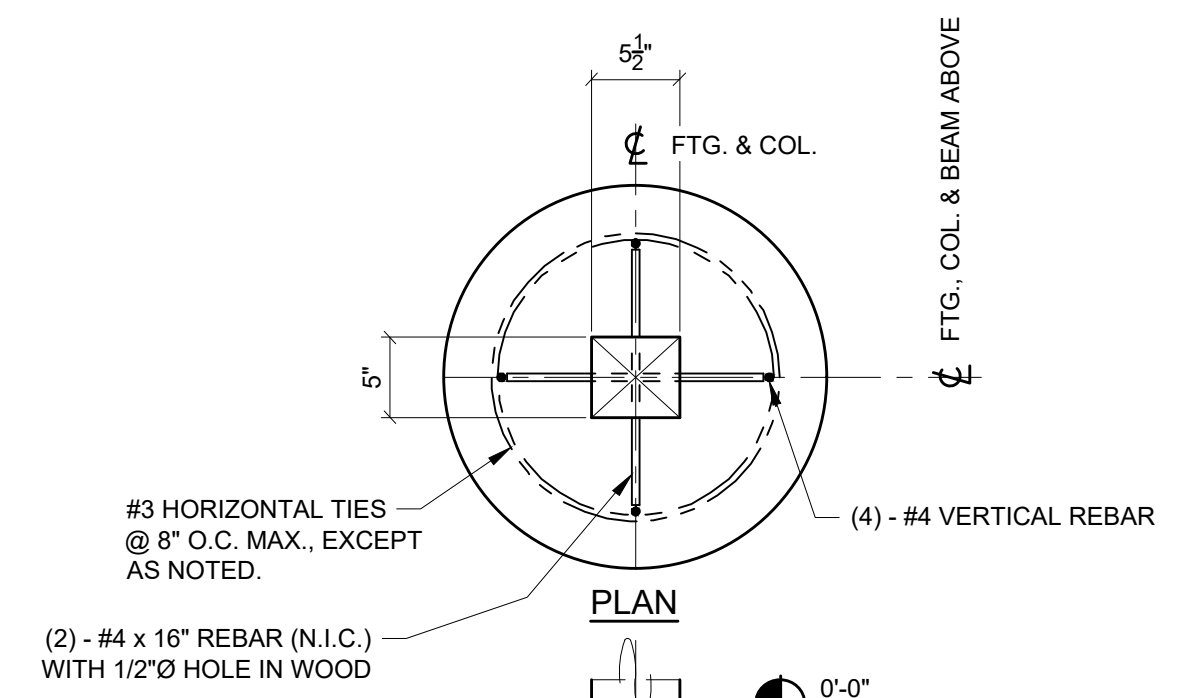
SHEET NO.:



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

COLUMN BASE REACTIONS:

↑	$V_{DL+3/4(L+0.6*WL)} = 3,710\#$
↓	$V_{0.6*DL+0.6*WL \text{ UPLIFT}} = -1,550\#$
→	$H_{DL+0.6*WL} = 730\#$
⤵	$M_{O.T. DL+0.6*WL} = 5,550\#-ft$



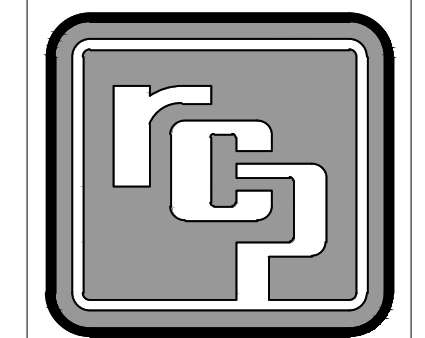
COLUMN FOOTING DETAIL

- CONCRETE NOTES:**
- Excavate the very loose sand within the proposed building limits and five feet beyond the perimeter of the building and replace with structural fill in accordance with the recommendations in the geotechnical report prepared by KSM Engineering and Testing dated 9-16-2020.
 - Footings are to bear on undisturbed, natural soil or engineered fill and to be compacted to 95% Proctor density.
 - Concrete foundation, re-bar, leveling nuts, grout & anchor bolts (if required) are N.I.C.
 - All concrete reinforcing steel to be grade 60, deformed bars.
 - F'_c of concrete to be 3000 psi @ 28 days.
 - All concrete work to be in accordance w/ latest ACI code.
 - Allowable vertical soil bearing pressure = 2000 psf per geotech report. Assumed allowable passive lateral soil bearing = 150 pcf. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).
 - Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

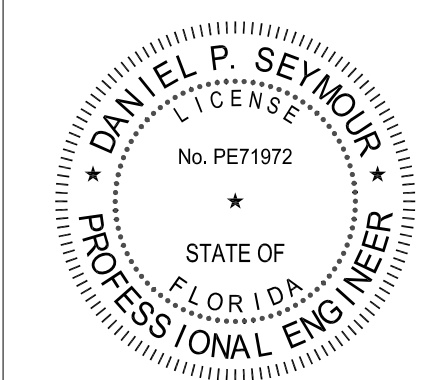
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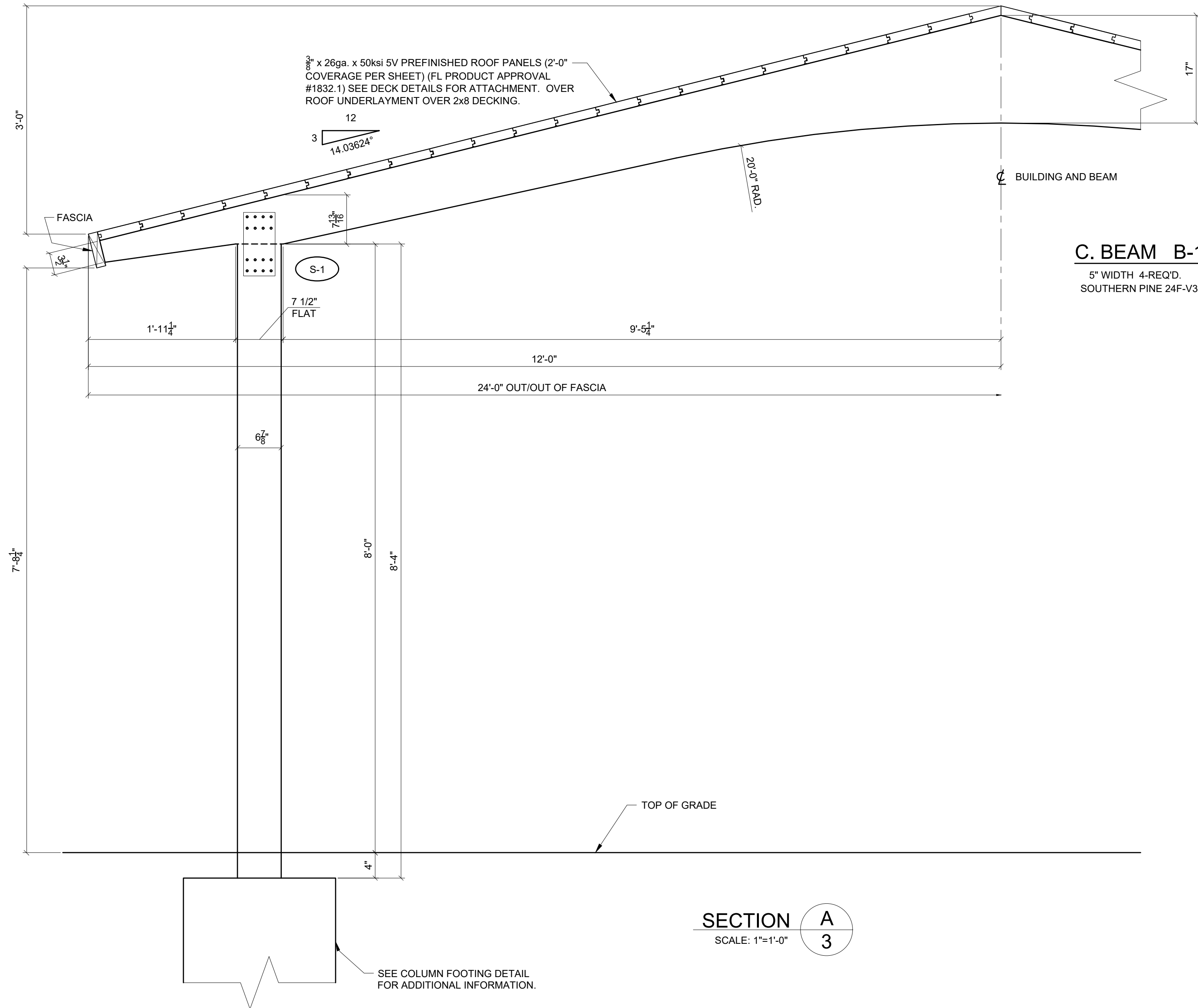
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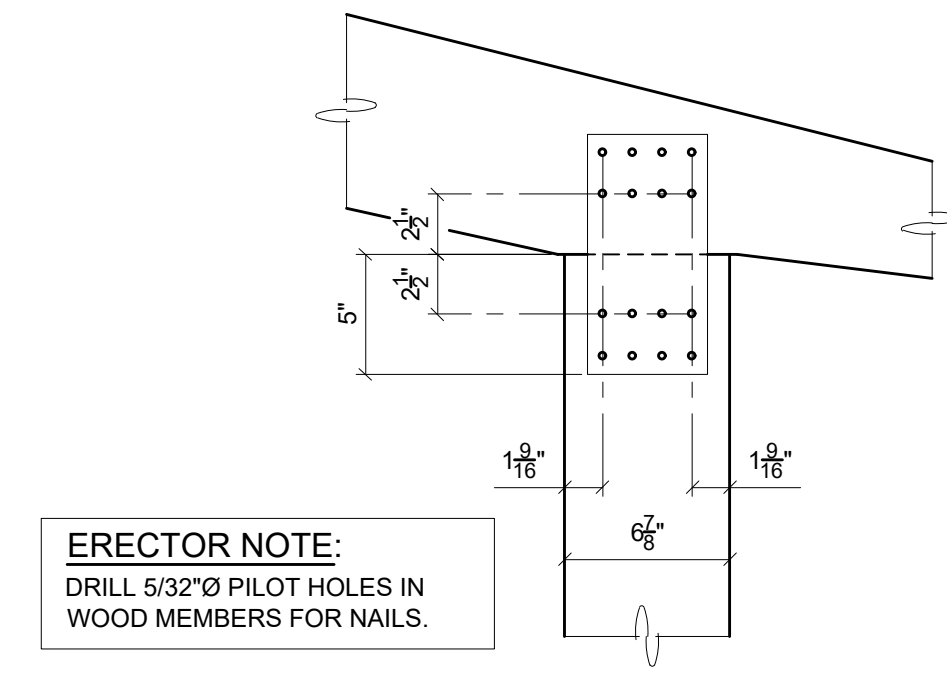
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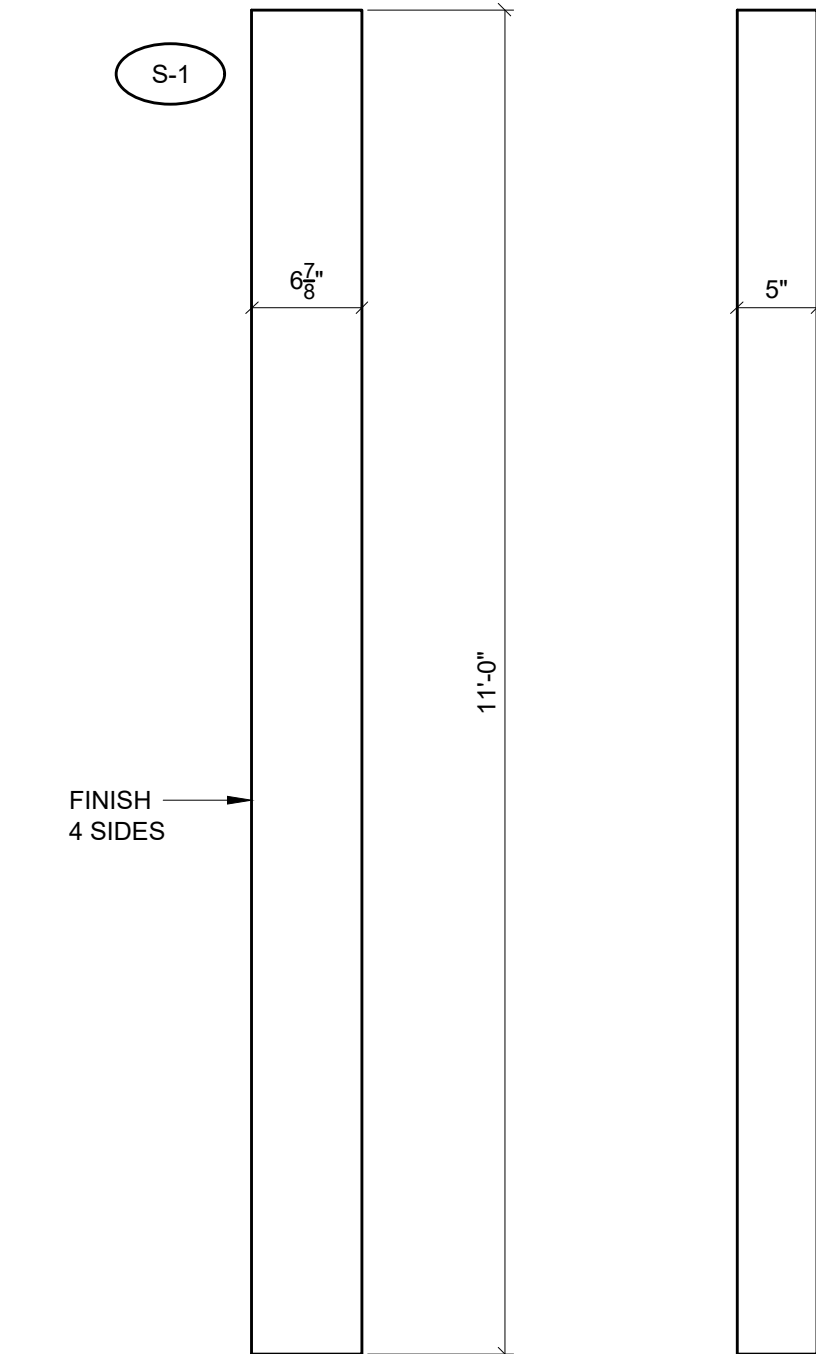
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CHKD:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	21-304-B	
EEC JOB NO.:	14185 R	
SHEET NO.:	2 OF 5	



C. BEAM B-1
5" WIDTH 4-REQ'D.
SOUTHERN PINE 24F-V3

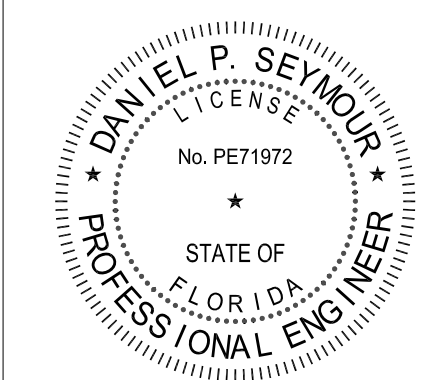


CONN S-1 8-req'd.
2 - MK-1 PLATE (SP000005x10C00.2500)
32 - 4 GA. x 2 1/2" ANNULAR RING NAIL, GALV.



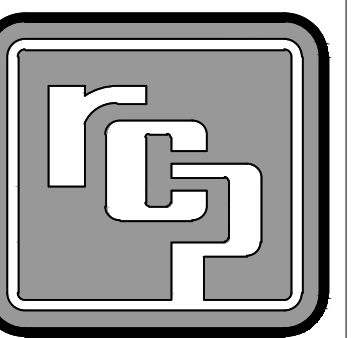
COLUMN C-1 5" x 6 7/8" 8-req'd.
COMB. #50(1:12) TREATED

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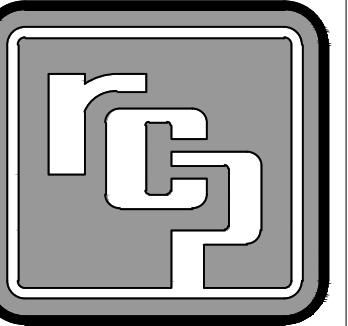
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REV 1:		
REV 2:		
REV 3:		
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EEC JOB NO.:	14185 R	
SHEET NO.:	3 OF 5	

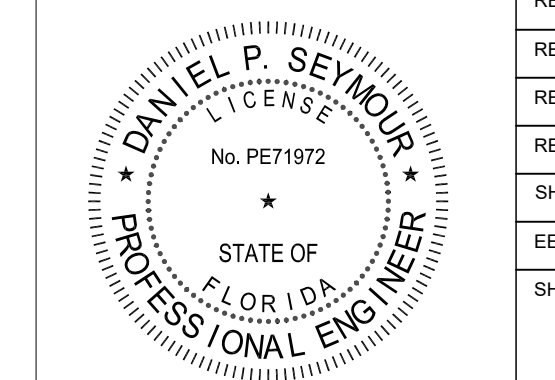
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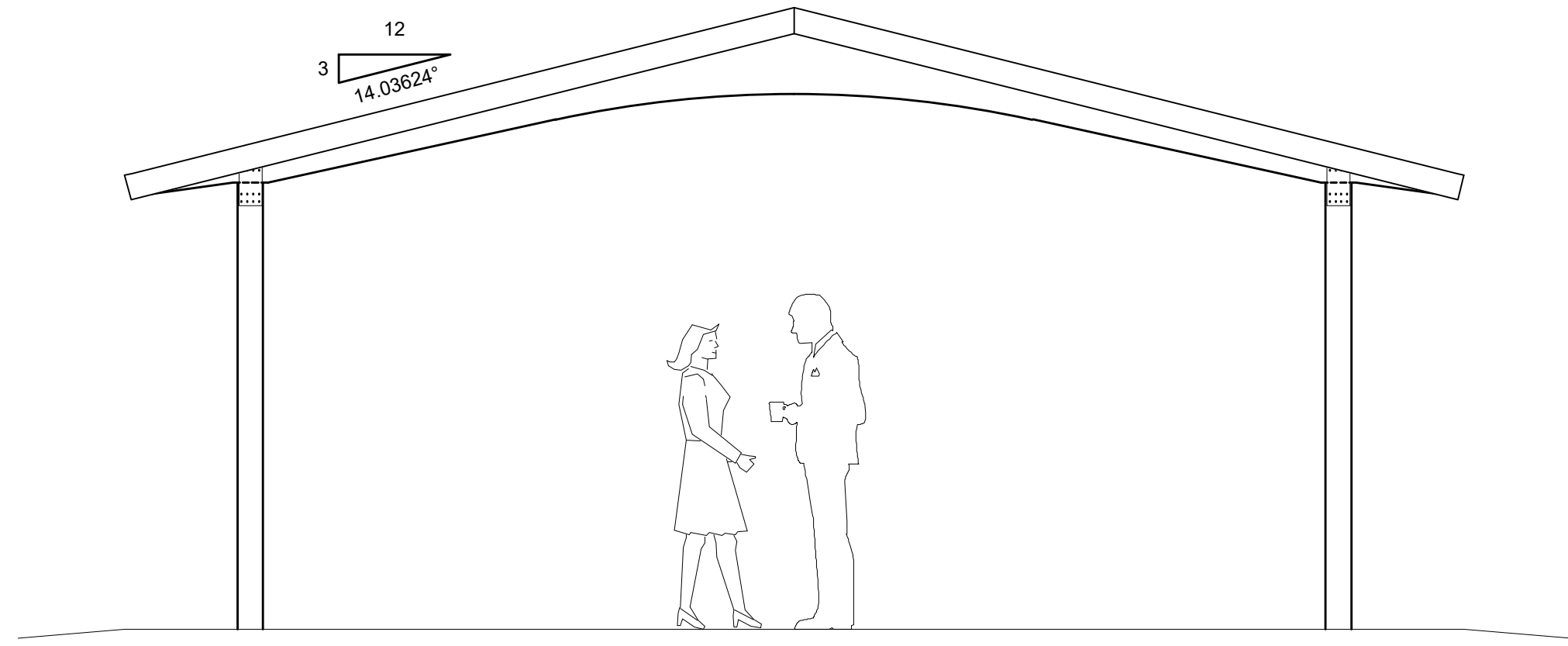


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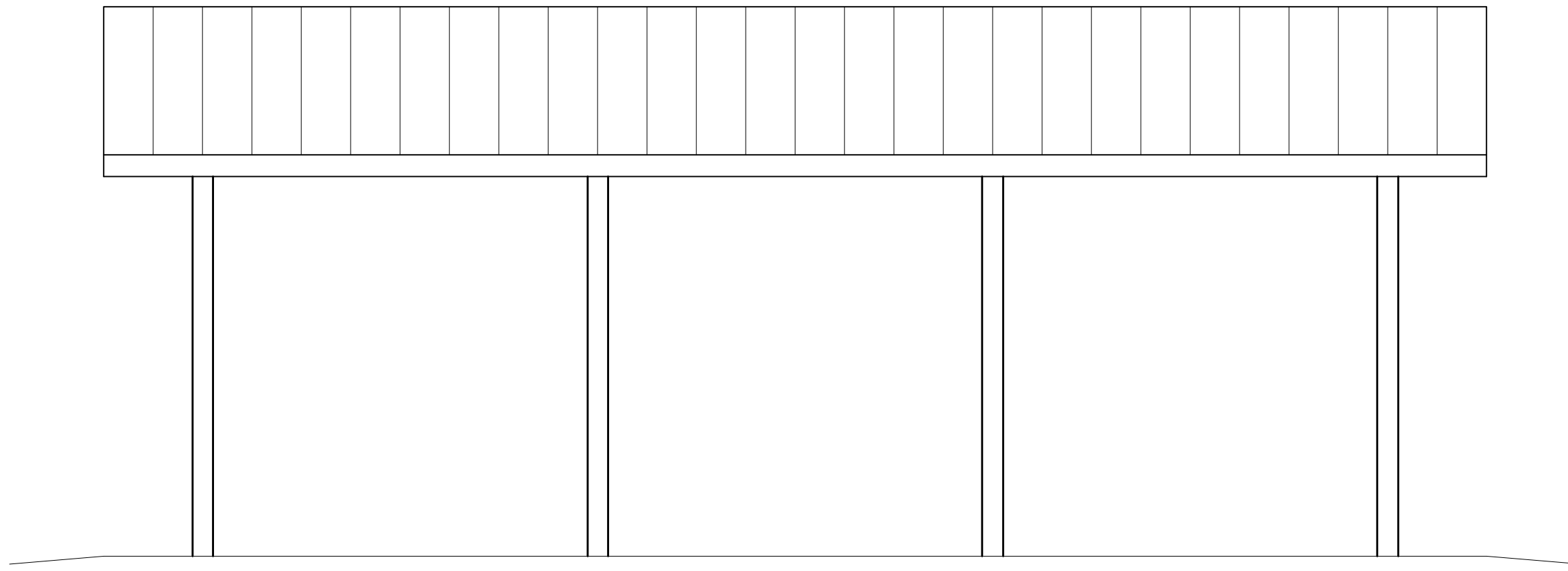
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REV 1:		
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EEC JOB NO.:	14185 R	
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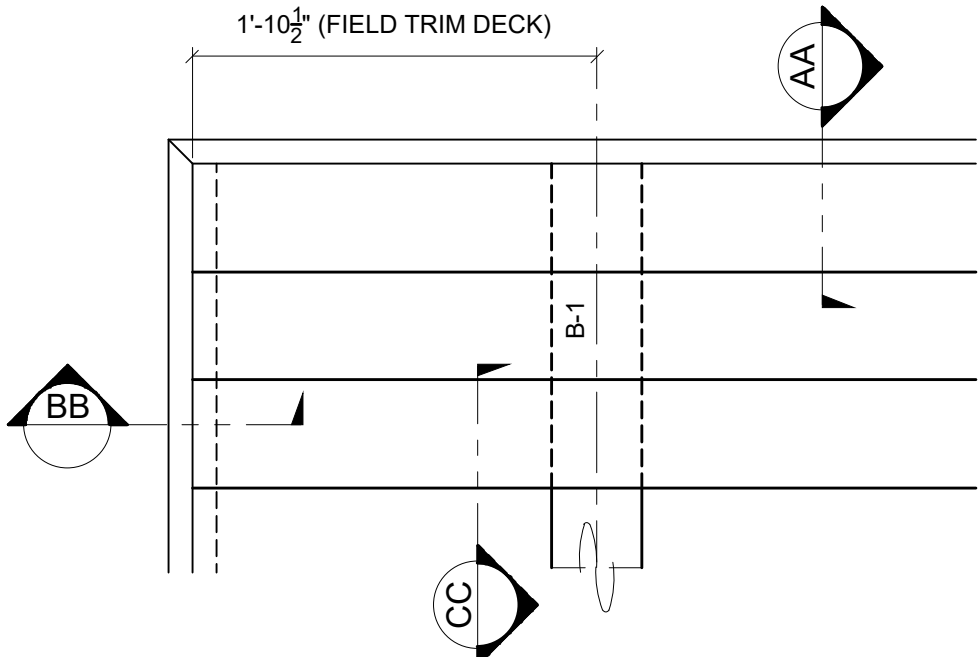
END ELEVATION
SCALE: 3/8" = 1'-0"



SIDE ELEVATION
SCALE: 3/8" = 1'-0"

TYPICAL DECK LAY-UP

1. START LAYING DECK AT EAVE W/ TONGUES UP.
2. DRIVE COURSES TIGHT W/ BLOCKING.
3. TOE NAIL & FACE NAIL AT EACH SUPPORT (BEAMS) USING 16d COMMON NAILS.
4. SNAP CHALK LINE AT BUILDING RAKE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS. ALTERNATE COURSES 10'/18" AND 18'/10".



DECK PLAN AT CORNERS

FASCIA NOTES:

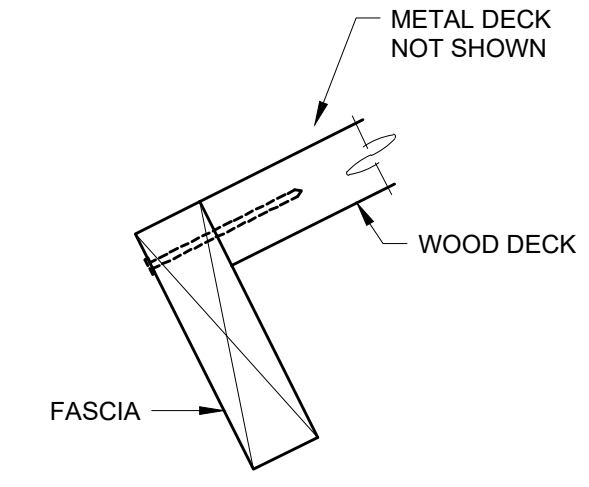
1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAILS A & B FOR SPLICE DETAILS.
3. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO BEAM ENDS - 3 NAILS PER FASCIA
 - c. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - d. AT CORNERS - 2 NAILS EACH DIRECTION
 - e. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

2 x 4 NAILER

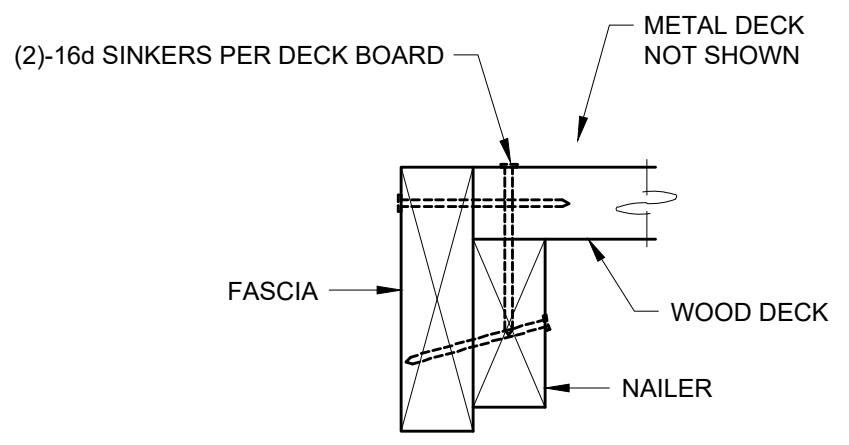
- A. MITER ALL SPLICES
- B. NAIL SPLICES TOGETHER WITH (2) 10d HDG CASING NAILS, DRIVE NAILS AT AN ANGLE TO AVOID PUNCHING THRU FASCIA.

FASCIA LAY-UP

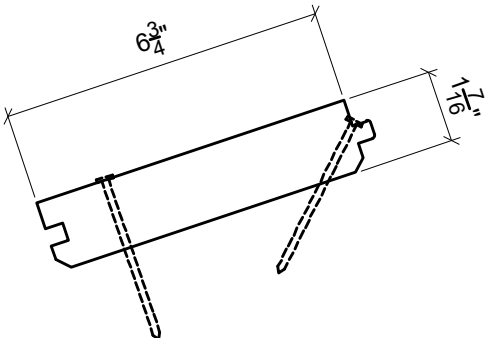
AT EAVE 12'/8"12'
AT RAKE 14'



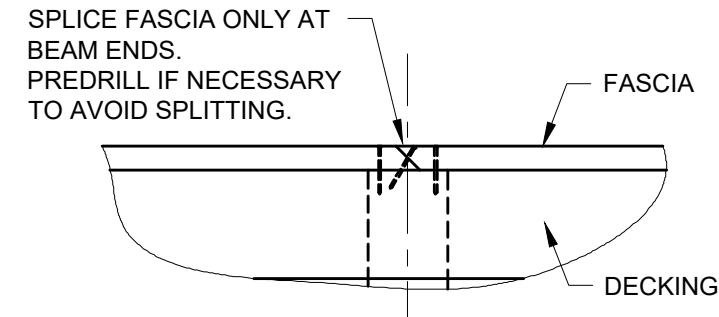
SECTION AA



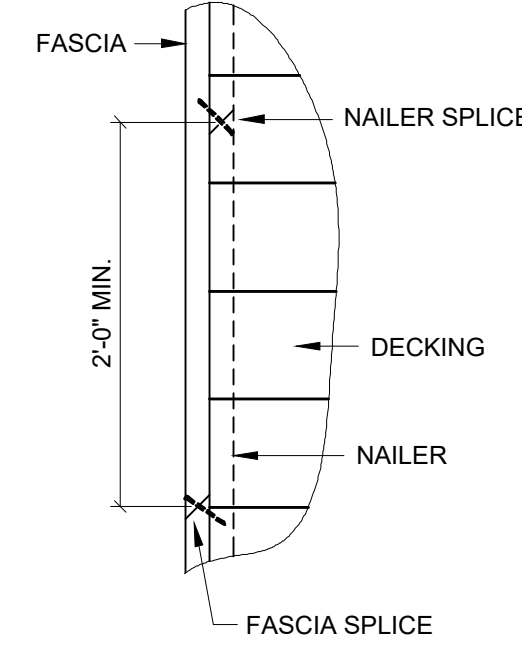
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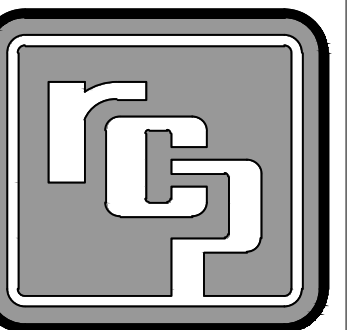
SECTION CC



DETAIL A



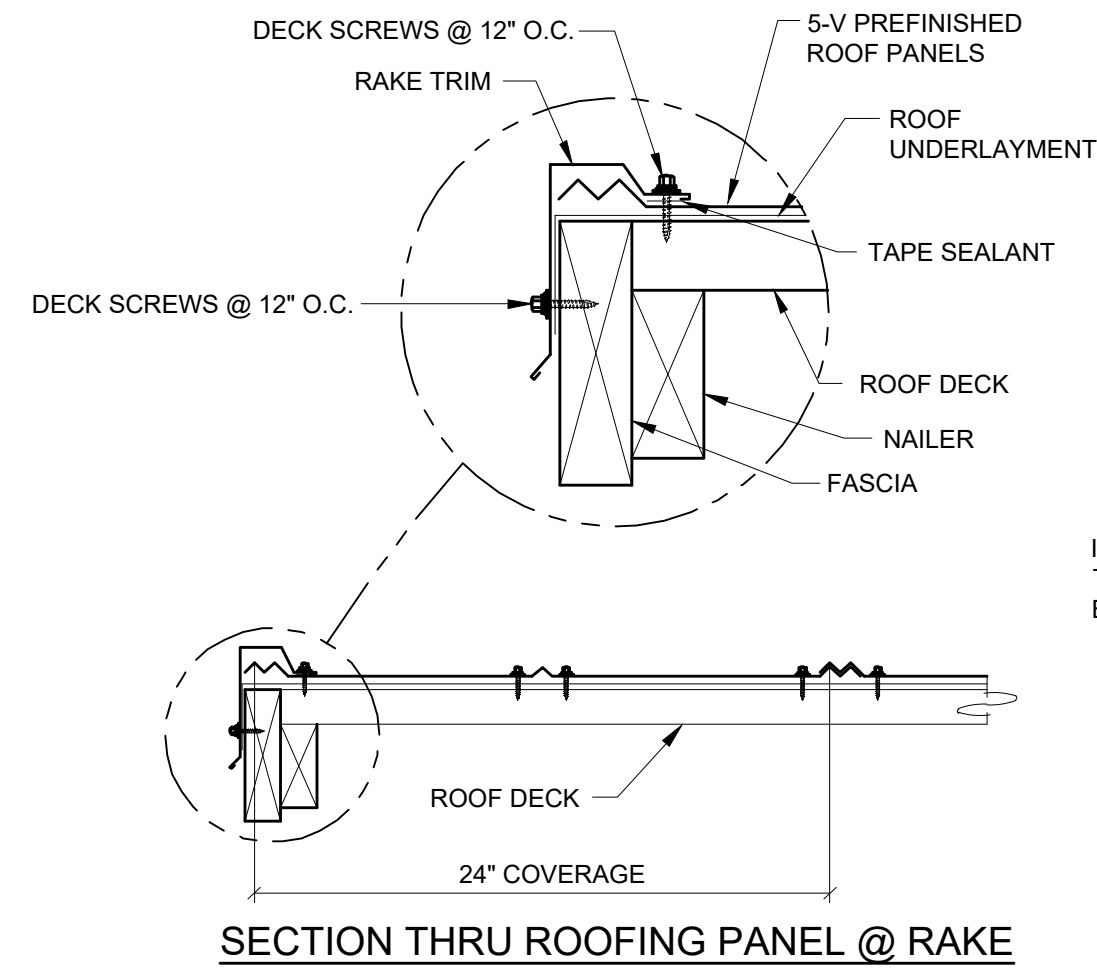
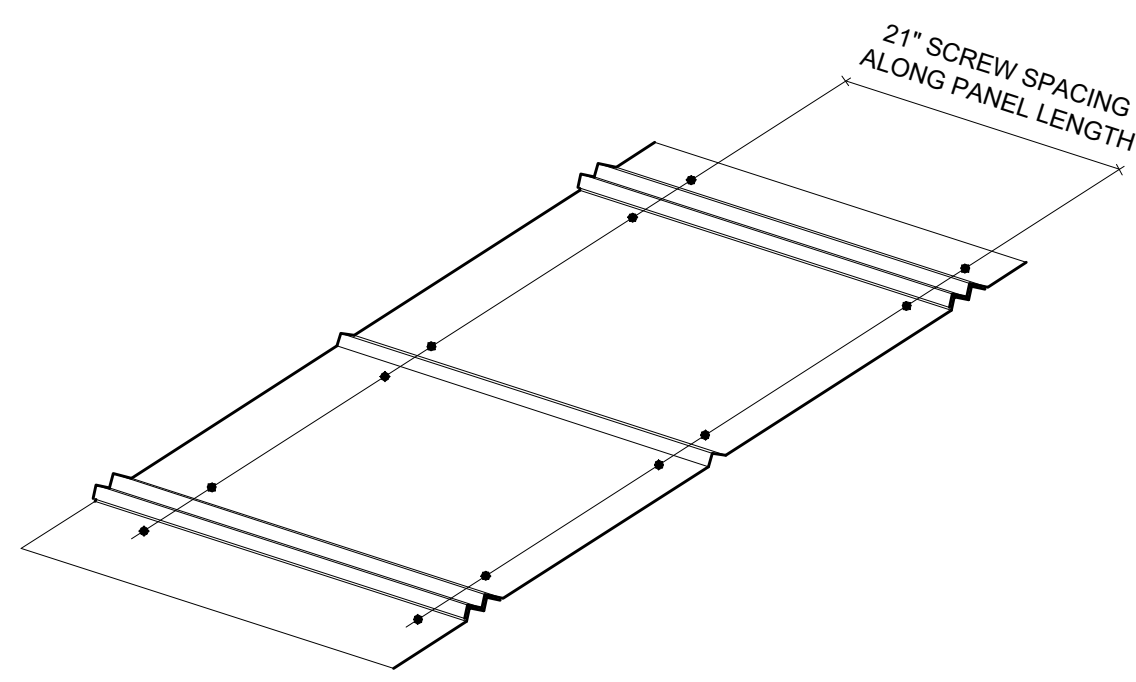
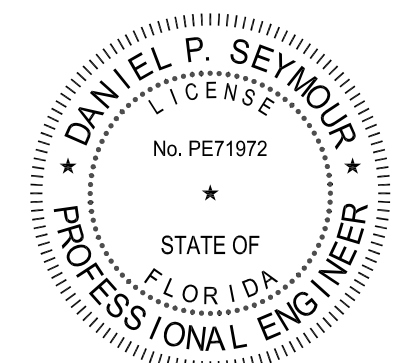
DETAIL B



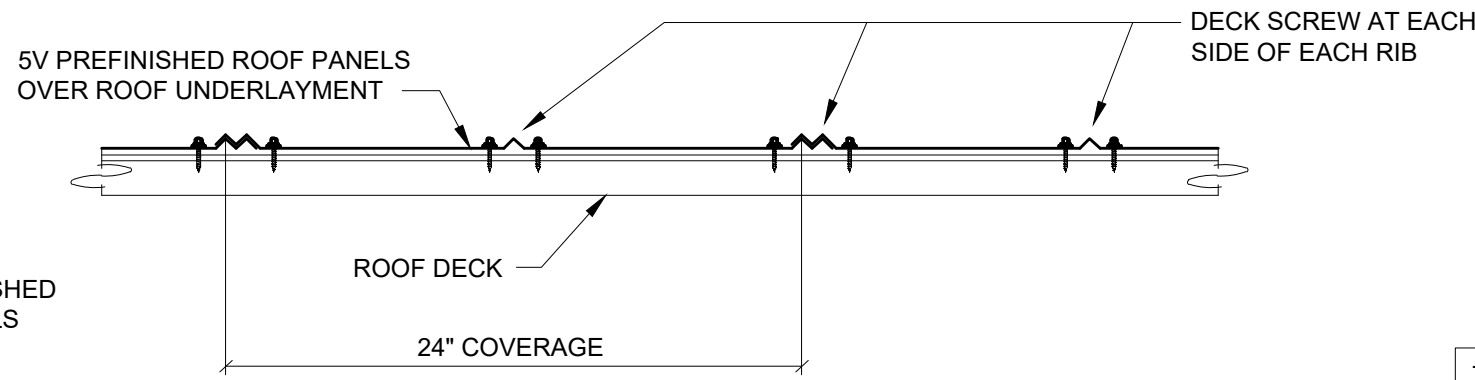
PROJ. NO.: 21-304-B

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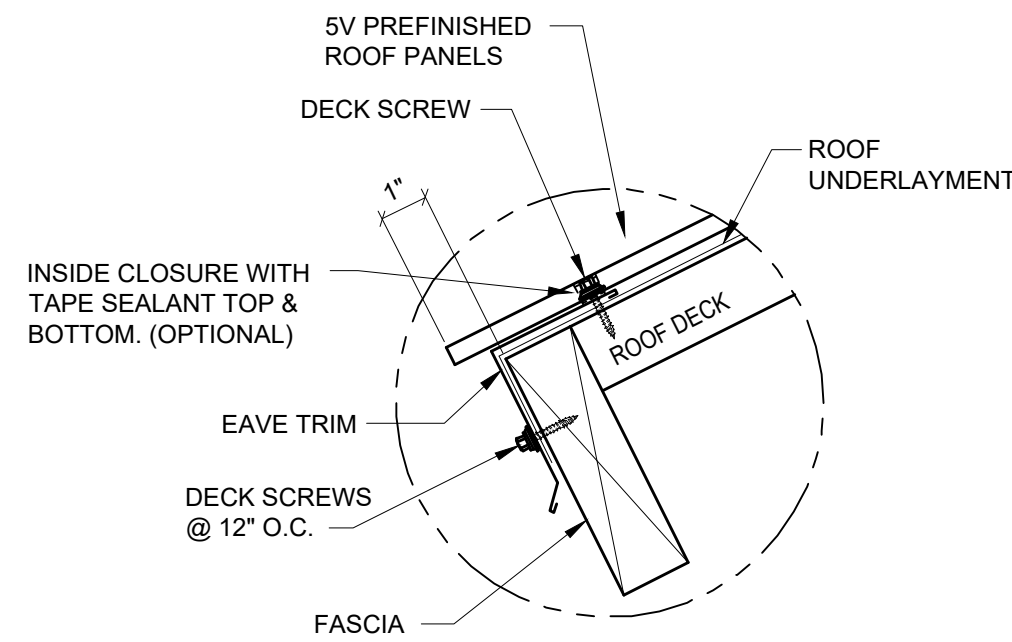
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CHKD:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	21-304-B	
EEC JOB NO.:	14185 R	
SHEET NO.:		



SECTION THRU ROOFING PANEL @ RAKE



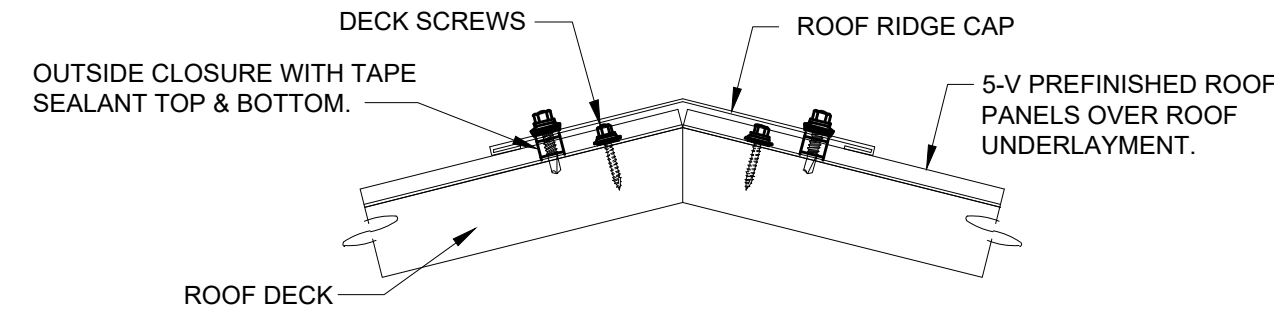
SECTION THRU ROOFING PANEL



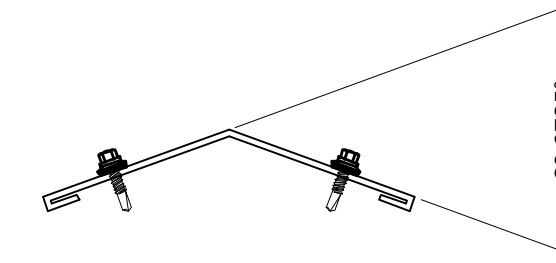
EAVE DETAIL

THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.

SELF-DRILLING SCREW SPECIFICATIONS:
LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD
DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT

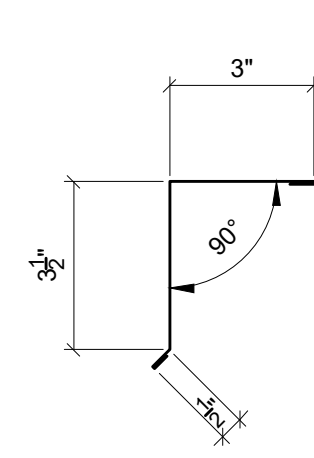


DECK DETAIL @ RIDGE

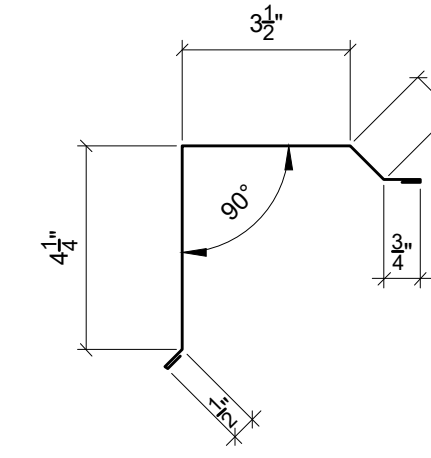


9" RIDGE CAP

30 LN. FT. REQUIRED
INSTALLATION:
FASTEN RIDGE CAP TO EACH ROOFING PANEL AT HIGH RIB. (1) LAP SCREW PER RIB, PER SIDE.



EAVE TRIM
80 LN. FT. REQUIRED



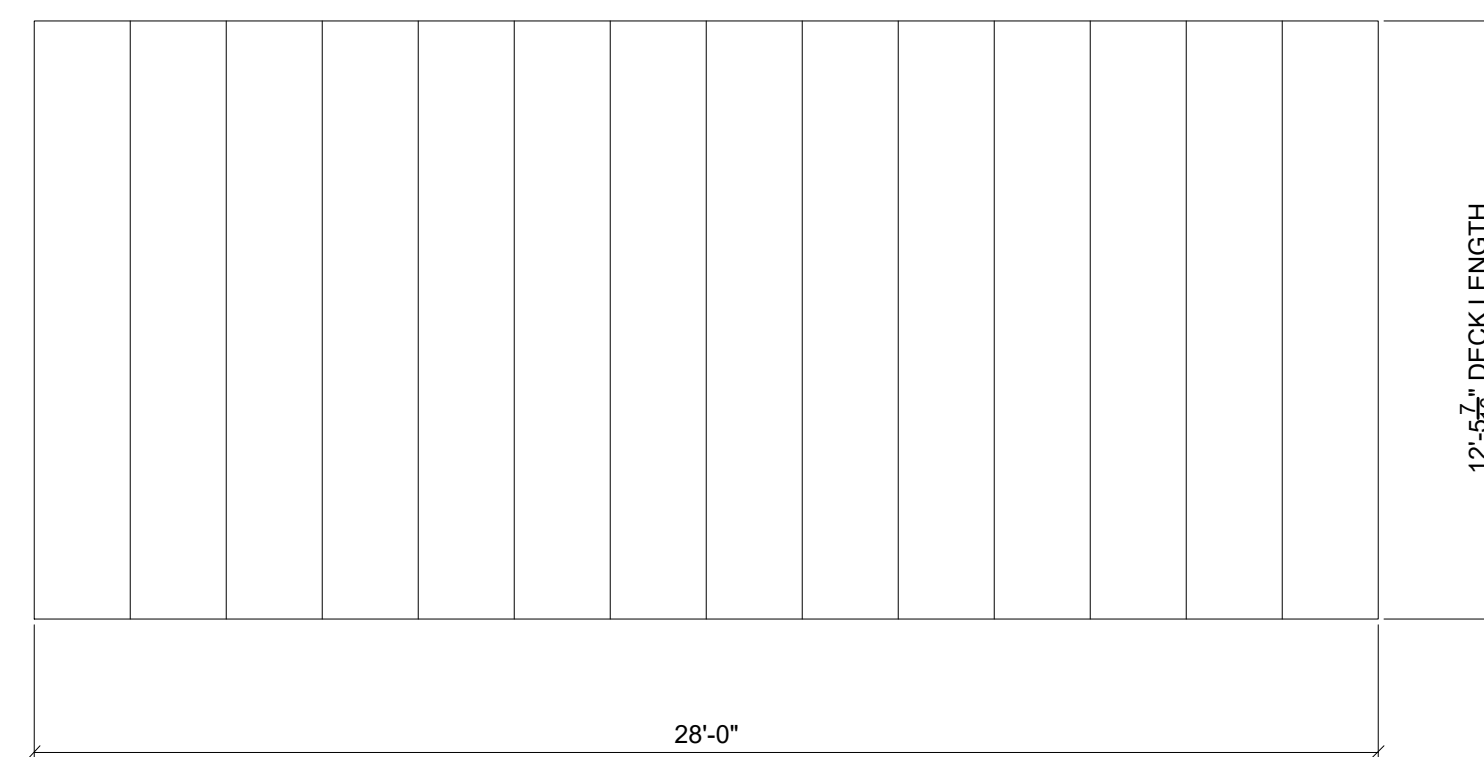
RAKE TRIM
56 LN. FT. REQUIRED

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.



TRUE PLAN AT ROOF PLANE 2-REQ'D

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

SECTION 10155 - SOLID PLASTIC TOILET PARTITIONS

PART I - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.02 SUMMARY

Extent of toilet partitions as indicated on drawings.

Types of toilet compartments include: 1" thick, solid plastic (polymer) homogenous in color.

Styles of toilet compartments include: Floor-anchored, overhead braced, with integral hinge system.

Styles of screens include: Floor-anchored, wall hung, and overhead braced.

Toilet accessories, such as toilet paper holders and grab bars, are specified elsewhere in Section 10800.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's detailed technical data for materials, fabrication, and installation, including catalog cuts of anchors, hardware, fastenings, and accessories.
- B. Recycled Content: Indicate recycled content; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.
- C. Local/Regional materials: Indicate location of manufacturing facility; indicate distance between manufacturing facility and the project site.
- D. Submit environmental data in accordance with Table 1 of ASTM E2129 for products provided under work of this section.
- E. Verify that plastic products to be incorporated into this Project are labeled in accordance with ASTM D1972.
- F. Shop Drawings: Submit shop drawings for fabrication and erection of toilet partition assemblies not fully described by product drawings, templates, and instructions for installation for installation of anchorage devices built into other work. Backing in walls and ceilings supplied under Section 06100.

- G. Samples: Submit full range of color samples for each type of unit required. Submit 6" square samples of each color and finish on same substrate to be used in work, for color verification after selections have been made.

1.04 QUALITY ASSURANCE

- A. Field Requirements: Take field measurements prior to preparation of shop drawings and fabrication where possible, allowing for acceptable tolerances, to ensure proper fittings of work.
- B. Coordination: Furnish inserts and anchorages which must be built into other work for installation of toilet partitions and related work; coordinate delivery with other work to avoid delay.
- C. Regulatory Requirements: Conform to ANSI A117.1 and FBC Chapter 11 codes for access for the handicapped operation of toilet compartment door and hardware and screens for urinal access.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

Manufacturer: Subject to compliance with requirements, provide products of one of the following:

Accurate Partitions Div., U.S. Gypsum Co.
Bobrick Washroom Equipment, Inc.
Santana Products Company
AMPCO, Hialeah, FL
Capitol Partitions, Inc.
Global Steel Products Corporation
Rockville Partitions Inc.
Columbia Partitions, a division of PSISC

2.02 MATERIALS

- A. General: Provide materials that have been selected for surface flatness and smoothness. Exposed surfaces that exhibit pitting, seam marks, roller marks, stain, discoloration, telegraphing of core material, or other imperfection on finished units are not acceptable.
- B. Solid Plastic: High Density Polyethylene (HDPE) with homogenous color throughout. Provide material not less than 1" thick, seamless construction with edges eased to a radius of .250".
 - 1. Recycled Content: Minimum 20% post-consumer recycled content OR a

minimum of 40% pre-consumer recycled content at Contractor's option.

- C. Pilaster Shoes: ASTM A 167, Type 302/304 stainless steel, not less than 3" high, 20-gauge, finished to match hardware. Anchor to finish floor with plastic anchors and #14 X 1 1/2" star head security pin, stainless steel screws.
- D. Stirrup Brackets: Manufacturer's standard design for attaching panels to walls and pilaster, either chromium-plated non-ferrous cast alloy ("Zamac") or anodized aluminum. Continuous stirrups required.
- E. Edging Strips: Anodized aluminum.
- F. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories of chromium-plated non-ferrous cast alloy ("Zamac").
- G. Wall Brackets: Full length, continuous, (6063-T Alloy) with mill finish weighing not less than .822 lbs. per linear foot. Wall brackets shall be pre-drilled by manufacturer with holes spaced every 6" along full length of brackets. Wall brackets shall be thru-bolted to panels and pilaster with one-way anti-theft bolts. Attachment of brackets to adjacent wall construction shall be accomplished by (1) theft proof Zamac mushroom nail in head anchor directly behind the vertical edge of panels and pilasters at every 12" along the full length of bracket and (2) No. 5 plastic anchors and No. 14 x 1 1/4" stainless steel phillips head screws at each 12" interval alternately spaced between anchor connections.
- H. Headrail: Shall be heavy aluminum extrusion (6063-T6 Alloy) with mill finish in anti-grip configuration weighing not less than 1.88 lbs. per linear foot. Headrail shall be fastened to tops of pilasters and headrail brackets by thru-bolting with star-head security pins, stainless steel barrel bolts (no cadmium plated bolts will be accepted).
- I. Headrail Brackets: Shall be of 16 or 18-gauge stainless steel.
- J. Anchorages and Fasteners: Unless otherwise indicated, use manufacturer's standard exposed fasteners of stainless steel, with theft-resistant type heads and nuts.

2.03 FABRICATION

- A. General: Furnish standard doors, panels, screens, and pilasters fabricated for partition system, unless otherwise indicated. Furnish units with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. Door Dimensions: Unless otherwise indicated, furnish 24" wide inswinging doors for ordinary toilet stalls and 32" to 36" wide (clear opening) outswinging or inswinging doors at stalls equipped for use by handicapped. See plans for sizes

and configurations of stall components.

- C. Doors: Fabricated 55" in length to be mounted 13" A.F.F. with edging strip fastened to full bottom edge unless stipulated otherwise on interior elevations.
- D. Pilasters: 82" high and fastened to floor and to wall brackets with pilaster shoes.
- E. Overhead-Braced Partitions: Furnish galvanized steel supports and leveling bolts at pilasters, as recommended by manufacturer to suit floor conditions. Make provisions for setting and securing continuous extruded aluminum anti-grip overhead-bracing at top for each pilaster. Furnish shoe at each pilaster to conceal supports and leveling mechanism.
- F. Floor-Supported Screens: Furnish pilasters not less than 1" in thickness, panels and pilasters of same construction and finish as toilet partitions. Furnish specified anchorage devices, complete with threaded rods, lock washers, and leveling adjusting nuts at pilasters, to permit structural connection to floor. Furnish shoe at pilaster to conceal anchorage.
- G. Hardware: Furnish hardware for each compartment partition system, as follows:
- H. Hinges: Heavy aluminum extrusion (6063-T6 Alloy) with bright dip anodized finish with wrap around flanges, and thru-bolted to doors and pilasters with one-way anti-theft bolts. Hinges will be factory set to a full close position unless otherwise noted. (Recessed flush mounted hinges not acceptable).
- I. Door Pull: Heavy chrome plated Zamac. Include wall stop in handicapped stall.
- J. Coat Hook/Bumper: Heavy chrome plated Zamac with rubber bumper.
- K. Door Strike and Keeper: Heavy aluminum extrusion (6063-T6 Alloy) with bright dip anodized finish with wrap-around flange surface, mounted, and thru bolted to pilaster with one-way anti-theft bolts.
- L. Door Latch Housing: Heavy aluminum extrusion (6063-T6-Alloy) with bright dip anodized finish surface mounted and thru-bolted to door with one-way ant-theft bolts. Slide bolt and bottom shall be heavy aluminum with "Tough-Coat Black" finish.

2.04 FINISHES

- A. Surface: Of all Polymer Resin components to be similar and equal to "Plasti-Glaze 280" by Santana products Co., or approved manufacturer listed. Colors are to be selected from manufacturer's standard colors by Architect and confirmed during the submittal process with a maximum of two colors.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. **General:** Comply with manufacturer's recommended procedures and installation sequence. Install partitions rigid, straight, plumb, and level. Provide clearances of not more than 1/2" between pilasters and panels, and not more than 1" between panels and walls. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel. Locate wall brackets so that holes for wall anchorages occur in masonry or tile joints. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.
- B. **Overhead-Braced Partitions:** Secure pilasters to floor and level, plumb, and tighten installation with devices furnished. Secure overhead-brace to each pilaster with not less than two fasteners. Hang doors and adjust so that tops of doors are parallel with overhead-brace when doors are in closed position.
- C. **Screens:** Attach with concealed anchoring devices, as recommended by manufacturer to suit supporting structure. Set units to provide support and to resist lateral impact.

3.02 ADJUST AND CLEAN

- A. **Hardware Adjustment:** Adjust and lubricate hardware for proper operation. Set hinges on inswinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on outswinging doors (and entrance swing doors) to return to fully closed position.
- B. **Cleaning:** Clean exposed surfaces of partition system using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

*****END OF SECTION*****

SECTION 10800 - TOILET ACCESSORIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary conditions and Division - 1 Specifications sections, apply to work of this Section.

1.02 DESCRIPTION OF WORK

A. Extent and location of each type of toilet accessory is shown on drawings. Provide accessory only if drawn and identified on the Architectural Drawings.

B. Types of toilet accessories required may include the following:
(Refer to plans and interior elevations for locations of specific items)

- Paper towel dispensers
- Toilet tissue dispensers
- Grab bars
- Soap dispensers
- Shower Rods
- Mirrors
- Heavy Duty Clothes Hook
- Shelf with Mop and Broom Holders
- Reversible Folding Shower Seat
- Diaper Changing Stations
- Wall Mounted Electric Hand Dryers

C. Some type of toilet accessories are included as part of toilet partitions elsewhere in Division 10.

1.03 QUALITY ASSURANCE

A. Inserts and Anchorages: Furnish inserts and anchoring devices which must be set in concrete or built into masonry; provide PT wood backing as required, coordinate delivery with other work to avoid delay.

B. Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

C. Manufacturer: Provide each type of toilet accessory required as manufactured by one of the following:

1. American Specialties Inc.
2. Bradley Corporation
3. Nutone
4. ASI Group Watrous

5. Bobrick Washroom Equipment, Inc.
6. Gamco
7. Franklin Brass
8. A & J Washroom Accessories
9. San Jamar Dispensers
10. Brocar
11. Koala
12. World Dryer

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data and installation instructions for each toilet accessory.
- B. Setting Drawings: Provide setting drawings, templates, instructions, and directions for installation of anchorage devices and cut out requirements in other work.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Stainless Steel: AISI Type 302/304, with satin No. 4 finish, 22 gage minimum, unless otherwise indicated.
- B. Galvanized Steel Mounting Devices: ASTM A 153, hot dip galvanized after fabrication.
- C. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

2.02 FABRICATION

- A. General: Stamped names or labels on exposed faces of toilet accessory units are not permitted, except where otherwise indicated. Wherever locks are required for a particular type of toilet accessory, provide same keying throughout project. Furnish two keys for each lock.
- B. Surfaced-Mounted Toilet Accessories, General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous piano hinge or minimum of two 1 ½" pin hinges of same metal as unit cabinet. Provide concealed anchorage wherever possible.
- C. Recessed Toilet Accessories, General: Except where otherwise indicated, fabricate units of all welded construction, without mitered corners. Hang doors or

access panels with full-length stainless steel piano hinge. Provide anchorage which is fully concealed when unit is closed.

2.03 TOILET TISSUE DISPENSERS

- A. General Toilet Rooms – Toilet Tissue Dispenser: BOBRICK B - 2740
- B. Public Park Restroom Buildings (non-oceanfront): BOBRICK B-2892
- C. Public Park Restroom Buildings (oceanfront): SAN JAMAR SANR4000TBK

2.04 SURFACE MOUNTED TOWEL DISPENSERS

BOBRICK B - 262

2.05 GRAB BARS (GR BR)

Stainless Steel Type: Equal to Bobrick B-6806 x 36 and B - 6806 x 42.

2.06 SOAP DISPENSERS

Bobrick B-4112 or Bradley 6542 Surface Mounted Dispensers capable of dispersing anti-bacterial soaps.

2.07 SHOWER RODS

Bradley Model 9531 Heavy Duty 1 1/4" O.D., 18 ga. Satin finish stainless steel.

2.08 MIRRORS

- A. General Toilet Rooms: Bobrick B-165, 18" X 30" mirror. Satin finish stainless steel frame with 1/4" float/plate glass mirror electrolytically copper plated. Mount with reflecting surface a maximum of 40 inches above finished floor.
- B. Public Park Restroom Buildings: Polished Stainless Steel Mirror BOBRICK B-1656, 24" wide X 48" high. Same mounting height requirement as above.

2.09 HEAVY DUTY CLOTHES HOOK

Bobrick B-2116, heavy duty clothes hook with concealed mounting. Withstands 300-lb downward pull. Hook and flange are one-piece brass casting with satin nickelplated finish. Supply 2 X 6 pressure treated wood backing in wall for proper mounting. Flange diameter is 2 3/4" and unit projects 3 7/16" from wall.

2.10 SHELF WITH MOP AND BROOM HOLDERS

Bobrick B-239 X 34, 18-gauge, type 304 stainless steel, satin finish, 13" high, 8" deep, 34" long. Anti-slip mop holders have spring loaded rubber cam that grips handles 7/8" to 1 1/4" diameter. Stainless steel hooks.

2.11 REVERSIBLE FOLDING SHOWER SEAT

Bobrick B-5181, complying with ADA accessibility standards. Seat is ivory colored solid phenolic. Reversible for left- or right-hand installation in the field. Frame and mounting brackets are type 304 stainless steel and feature a self-locking mechanism. Seat measures 33" wide, projects 22 5/16" from wall. Average mounting height 17 to 20" from top of floor to seat.

2.12 DIAPER CHANGING STATION

ASI Model No. 9012, Bobrick B-2200, Brocar Model 100EH, Koala KB100-00, or World Dryer ABC-100, colors grey or white. Sizes are 34.5 to 35 inches wide, 19 to 20 inches high, and 4 inches deep. Changing surface mounted at 34" to 38" above the finished floor. Use manufacturer's mounting hardware and comply with their installation requirements to support a minimum 100-pound load in the open position. Surface mount only, do not recess unit.

2.13 WALL MOUNTED ELECTRIC HAND DRYERS

As manufactured by one of the following: World Dryer SLIMdri Model #L-971 110-120V, 8.3-amp Hand Dryer with brushed chrome cover, Bobrick Model B-7120 115V, 15-amp Hand Dryer with stainless steel cover, Saniflow SPEEDFLOW Model M06ACS, 100-120V, 9.5-amp Hand Dryer with satin finish stainless steel cover or NOVA 1 Model 0830 120V, 10-amp Hand Dryer with white epoxy enamel on die cast aluminum cover. All units include infrared sensors for automatic hands-free operation and both include auto shutoff. Projection off wall is 4 inches to comply with ADA requirements. Mounting height to bottom edge of units for front approach is 44 to 48 inches.

2.14 INSTALLATION

Install toilet accessory units in accordance with manufacturers' instructions, using fasteners which are appropriate to substrate and recommend by manufacturer of unit. Install units plumb and level, firmly anchored in locations indicated.

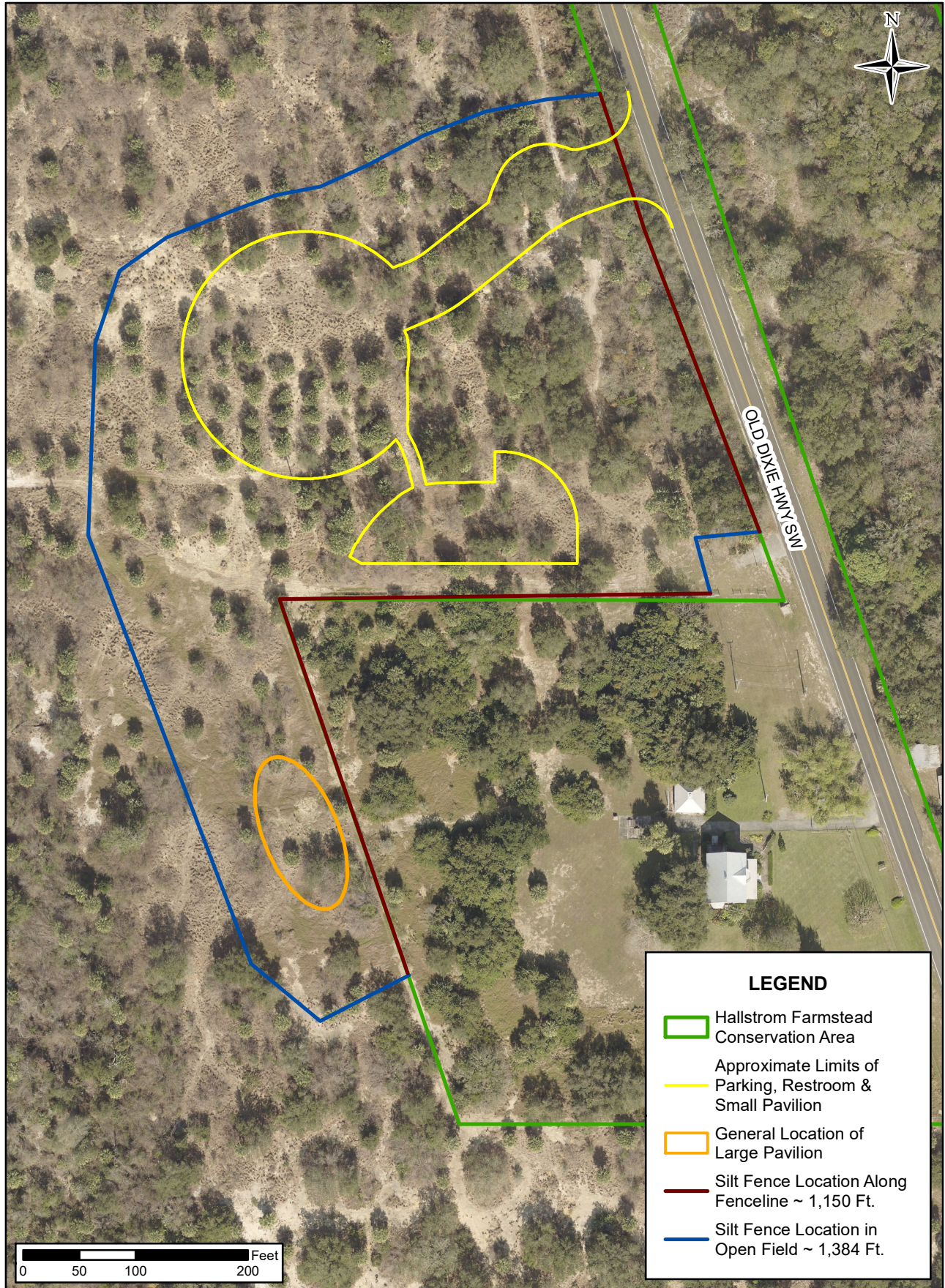
2.15 ADJUST AND CLEAN

- A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly.
- B. Replace damaged or defective units.
- C. Clean and polish all exposed surfaces after removing protective coatings.

***** END OF SECTION*****



Hallstrom Farmstead Conservation Area Proposed Silt Fence Location



SECTION 00520 - Agreement (Public Works)

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SECTION 00520 - Agreement (Public Works)

THIS AGREEMENT is by and between INDIAN RIVER COUNTY, a Political Subdivision of the State of Florida organized and existing under the Laws of the State of Florida, (hereinafter called OWNER)

and _____
(hereinafter called CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 - WORK

1.01 CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

The construction of a parking lot, restroom, walking paths and associated appurtenances depicted on the Project Plans in Appendices 2 & 3.

ARTICLE 2 - THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

Project Name: **Hallstrom Farmstead Parking Lot, Trail & Restroom Construction**
FM Number: **N/A**
Bid Number: **2022019**
Project Address: **1701 Old Dixie Highway SW, Vero Beach, FL 32960**

ARTICLE 3 - ENGINEER

3.01 The Indian River County Parks and Recreation Division is hereinafter called the ENGINEER and will act as OWNER's representative, assume all duties and responsibilities, and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

4.01 *Time of the Essence*

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Days to Achieve Substantial Completion, Final Completion and Final Payment*

A. The Work will be substantially completed on or before the **90** calendar day after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions on or before the **120** calendar day after the date when the Contract Times commence to run.

4.03 *Liquidated Damages*

- A. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work on the LWCF funded portion of the work is not completed by April 30, 2022, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. Liquidated damages will commence for this portion of work. The parties also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay OWNER \$1,197.00 for each calendar day that expires after April 30, 2022 for Substantial Completion until the Work is substantially complete. After Substantial Completion, if CONTRACTOR shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay OWNER \$1,197.00 for each calendar day that expires after the time specified in paragraph 4.02 for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 5 - CONTRACT PRICE

5.01 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents, an amount in current funds equal to the sum of the amounts determined pursuant to paragraph 5.01.A and summarized in paragraph 5.01.B, below:

- A. For all Work, at the prices stated in CONTRACTOR's Bid, attached hereto as an exhibit.
- B. THE CONTRACT SUM subject to additions and deductions provided in the Contract:

Numerical Amount: \$ _____

Written Amount: _____

ARTICLE 6 - PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

- A. CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by OWNER as provided in the General Conditions and the Contract Documents.

6.02 *Progress Payments.*

- A. The OWNER shall make progress payments to the CONTRACTOR on the basis of the approved partial payment request in accordance with the provisions of the Local Government Prompt Payment Act, Florida Statutes section 218.70 et. seq. The OWNER shall retain five percent (5%) of the payment amounts due to the CONTRACTOR until final completion and acceptance of all work to be performed by CONTRACTOR under the Contract Documents.

6.03 *Pay Requests.*

- A. Each request for a progress payment shall be submitted on the application provided by OWNER and the application for payment shall contain the CONTRACTOR'S certification. All progress payments will be on the basis of progress of the work measured by the schedule of values established, or in the case of unit price work based on the number of units completed.

6.05 *Acceptance of Final Payment as Release.*

- A. The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER from all claims and all liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with the work under this Contract and for every act and neglect of the OWNER and others relating to or arising out of the work. Any payment, however, final or otherwise, shall not release the CONTRACTOR or its sureties from any obligations under the Contract Documents or the Public Construction Bond.

ARTICLE 7 - INDEMNIFICATION

7.01 CONTRACTOR shall indemnify OWNER and others in accordance with paragraph 6.20 (*Indemnification*) of the General Conditions to the Construction Contract.

ARTICLE 8 - CONTRACTOR'S REPRESENTATIONS

8.01 In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations:

- A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
- B. CONTRACTOR has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. CONTRACTOR has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.
- E. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means,

methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto

- F. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- G. CONTRACTOR is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Contract Documents.
- H. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- I. CONTRACTOR has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.
- J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- K. Contractor is registered with and will use the Department of Homeland Security's E-Verify system (www.e-verify.gov) to confirm the employment eligibility of all newly hired employees for the duration of this agreement, as required by Section 448.095, F.S. Contractor is also responsible for obtaining proof of E-Verify registration for all subcontractors.

ARTICLE 9 - CONTRACT DOCUMENTS

9.01 *Contents*

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages 00520-1 to 00520-10, inclusive);
 - 2. Notice to Proceed (page 00550-1);
 - 3. Public Construction Bond (pages 00610-1 to 00610-3, inclusive);
 - 4. Sample Certificate of Liability Insurance (page 00620-1);
 - 5. Contractor's Application for Payment (pages 00622-1 to 00622-6 inclusive);
 - 6. Certificate of Substantial Completion (pages 00630-1 to 00630-2, inclusive);
 - 7. Contractor's Final Certification of the Work (pages 00632-1 to 00632-2, inclusive);
 - 8. Professional Surveyor & Mapper's Certification as to Elevations and Locations of the Work (page 00634-1);
 - 9. General Conditions (pages 00700-1 to 00700-37, inclusive);

10. Supplementary Conditions (pages 00800-i to 00800-12, inclusive);
11. Specifications as listed in Division 1 (General Requirements) and Division 2 (Technical Provisions);
12. Drawings consisting of a cover sheet and sheets numbered 1 through _____, inclusive, with each sheet bearing the following general title:N/A;
13. Addenda (if applicable _____);
14. CONTRACTOR'S BID (pages 00310-1 to 00310-8, inclusive);
15. Bid Bond (page 00430-1);
16. Qualifications Questionnaire (page 00456-1 to 00456-3, inclusive);
17. List of Subcontractors (page 00458-1);
18. Sworn Statement Under Section 105.08, Indian River County Code, on Disclosure of Relationships (pages 00452-1 to 00452-2, inclusive);
19. Certification Regarding Prohibition Against Contracting with Scrutinized Companies (page 00460-1);
20. Certification Regarding Lobbying (page 00474-1);
21. LWCF Permit 12-00695, included as Appendix 6 of the Invitation to Bid and including all attachments. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
 - a) Written Amendments;
 - b) Work Change Directives;
 - c) Change Order(s);

ARTICLE 10 - MISCELLANEOUS

10.01 *Terms*

- A. Terms used in this Agreement will have the meanings indicated in the General Conditions.

10.02 *Assignment of Contract*

- A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 *Successors and Assigns*

- A. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 *Severability*

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 *Venue*

- A. This Contract shall be governed by the laws of the State of Florida. Venue for any lawsuit brought by either party against the other party or otherwise arising out of this Contract shall be in Indian River County, Florida, or, in the event of a federal jurisdiction, in the United States District Court for the Southern District of Florida.

10.06 *Public Records Compliance*

- A. Indian River County is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law. Specifically, the Contractor shall:

- (1) Keep and maintain public records required by the County to perform the service.
- (2) Upon request from the County's Custodian of Public Records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119 or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the County.
- (4) Upon completion of the contract, transfer, at no cost, to the County all public records in possession of the Contractor or keep and maintain public records required by the County to perform the service. If the Contractor transfers all public records to the County upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the County, upon request from the Custodian of Public Records, in a format that is compatible with the information technology systems of the County.

- B. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE**

CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

(772) 226-1424

publicrecords@ircgov.com

Indian River County Office of the County Attorney

1801 27th Street

Vero Beach, FL 32960

C. Failure of the Contractor to comply with these requirements shall be a material breach of this Agreement.

ARTICLE 11 – FEDERAL TERMS AND CONDITIONS

11.01 OWNER and CONTRACTOR will adhere to the following, as applicable to this work:

A. Equal Employment Opportunity. During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

B. Compliance with the Copeland "Anti-Kickback" Act.

(1) Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.

(2) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

(3) Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

C. Compliance with the Contract Work Hours and Safety Standards Act:

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The OWNER shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the

subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

D. Clean Air Act:

(1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

(2) The contractor agrees to report each violation to the OWNER and understands and agrees that the OWNER will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

(3) The contractor agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FEMA.

E. Federal Water Pollution Control Act:

(1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

(2) The contractor agrees to report each violation to the OWNER and understands and agrees that the OWNER will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

(3) The contractor agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FEMA.

F. Debarment and Suspension

(1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

(2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

(3) This certification is a material representation of fact relied upon by OWNER. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to OWNER, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

(4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

G. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

H. Procurement of Recycled/Recovered Materials:

(1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—

(i) Competitively within a timeframe providing for compliance with the contract performance schedule;

(ii) Meeting contract performance requirements; or

(iii) At a reasonable price.

(2) Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

(3) The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

I. Access to Records: The following access to records requirements apply to this contract:

(1) The contractor agrees to provide OWNER, the State of Florida, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

(2) The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

(3) The contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.

(4) In compliance with the Disaster Recovery Act of 2018, the OWNER and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

J. Compliance with Federal Law, Regulations, and Executive Orders:

This is an acknowledgement that federal financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, and LWCF policies, procedures, and directives.

K. No Obligation by Federal Government: The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

L. Program Fraud and False or Fraudulent Statements or Related Acts: The contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.

M. Affirmative Steps: CONTRACTOR shall take the following affirmative steps to ensure minority business, women's business enterprises and labor surplus area firms are used when possible:

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists.

(2) Ensuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources.

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises.

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises.

(5) Using the services and assistance of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

N. Prohibition on Contracting for Covered Telecommunications Equipment or Services:

(a) Definitions. As used in this clause, the terms backhaul; covered foreign country; covered telecommunications equipment or services; interconnection arrangements; roaming; substantial or essential component; and telecommunications equipment or services have the meaning as defined in FEMA Policy 405-143-1, Prohibitions on Expending FEMA Award Funds for Covered Telecommunications Equipment or Services (Interim), as used in this clause—

(b) Prohibitions.

(1) Section 889(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, and 2 C.F.R. § 200.216 prohibit the head of an executive agency on or after Aug.13, 2020, from obligating or expending grant, cooperative agreement, loan, or loan guarantee funds on certain telecommunications products or from certain entities for national security reasons.

(2) Unless an exception in paragraph (c) of this clause applies, the contractor and its subcontractors may not use grant, cooperative agreement, loan, or loan guarantee funds from the Federal Emergency Management Agency to:

(i) Procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

(ii) Enter into, extend, or renew a contract to procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

(iii) Enter into, extend, or renew contracts with entities that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system; or

(iv) Provide, as part of its performance of this contract, subcontract, or other contractual instrument, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

(c) Exceptions.

(1) This clause does not prohibit contractors from providing—

(i) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) By necessary implication and regulation, the prohibitions also do not apply to:

(i) Covered telecommunications equipment or services that:

i. Are not used as a substantial or essential component of any system; and

ii. Are not used as critical technology of any system.

(ii) Other telecommunications equipment or services that are not considered covered telecommunications equipment or services.

(d) Reporting requirement.

(1) In the event the contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the contractor is notified of such by a subcontractor at any tier or by any other source, the contractor shall report the information in paragraph (d)(2) of this clause to the recipient or subrecipient, unless elsewhere in this contract are established procedures for reporting the information.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

(i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments.

O. Domestic Preference for Procurements

As appropriate, and to the extent consistent with law, the contractor should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States. This includes, but is not limited to iron, aluminum, steel, cement, and other manufactured products.

For purposes of this clause:

Produced in the United States means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

Manufactured products mean items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

[The remainder of this page was left blank intentionally]

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in duplicate. One counterpart each has been delivered to OWNER and CONTRACTOR. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or on their behalf.

This Agreement will be effective on _____, 2022 (the date the Contract is approved by the Indian River County Board of County Commissioners, which is the Effective Date of the Agreement).

OWNER:

CONTRACTOR:

INDIAN RIVER COUNTY _____

By: _____
Peter D. O'Bryan, Chairman

By: _____
(Contractor)

By: _____
Jason E. Brown, County Administrator

(CORPORATE SEAL)

Attest _____

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

By: _____
Dylan Reingold, County Attorney

Address for giving notices:

Jeffrey R. Smith, Clerk of Court and Comptroller

License No. _____
(Where applicable)

Attest: _____
Deputy Clerk

Agent for service of process: _____

(SEAL)

Designated Representative:
Name: Elizabeth Powell
Title: Assistant Director, Parks and Conservation Resources
5500 77th Street
Vero Beach, Florida 32967
(772) 226-1873
Facsimile: (772) 589-6119

Designated Representative:
Name: _____
Title: _____
Address: _____

Phone: _____
Facsimile: _____

(If CONTRACTOR is a corporation or a partnership, attach evidence of authority to sign.)

**** END OF SECTION ****