SITE DEVELOPMENT PLANS

FOR

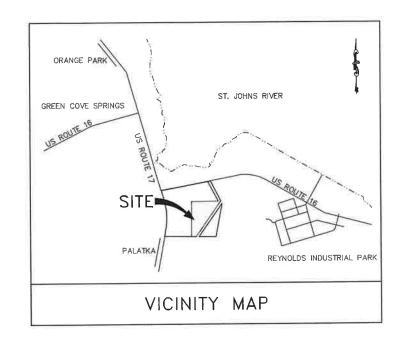
PROPOSED INDUSTRIAL SITE

US 17 AT STATE ROAD 16 GREEN COVE SPRINGS, FLORIDA

PREPARED FOR:

CYPRESS MANAGEMENT & DESIGN L.L.C.

3418 Wall Road Green Cove Springs FL 32043



	SHEET INDEX
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	STORMWATER POLLUTION PREVENTION PLAN
5	OVERALL SITE PLAN
6-7	SITE GEOMETRY PLAN
8-9	GRADING AND DRAINAGE PLAN
10-12	WATER AND SEWER PLAN
13-14	FDOT DRIVEWAY TURNOUT PLANS
15	ROAD AND SEWER PROFILES
16	EROSION AND SEDIMENT CONTROL DETAILS
17-18	PAVING AND DRAINAGE DETAILS
19	PRIVATE LIFT STATION PLAN AND DETAILS
20	WATER SYSTEM DETAILS
21	SANITARY SEWER DETAILS
22	TRACER WIRE DETAILS
23	WATER SERVICE DETAILS
24	UTILITY NOTES
25	EXISTING DRAINAGE BASIN MAP
26	PROPOSED DRAINAGE BASIN MAP
27-30	LANDSCAPE AND LIGHTING PLANS — BY OTHERS

NO.	REVISIONS	B	BY DATE	REG. NO. 47609

CREEK

STATE ENGINEERING, INC

STATE OFFICE FRONCE, FLORIDA

GREEN CONE SPRINGS, FLORIDA

STATE OFFICE FRONCE, FLORIDA

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PROPOSED INDUSTRIAL SITE
SR 16 EAST, GREEN COVE SPRINGS, FL
CYPRESS MANAGEMENT & DESIGN, LLC
COVER SHEET

CHECKED BY : CdG
APPROVED BY : CdG
SCALE : 1"=100'

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GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS.
- 2. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO CONSTRUCTION OF THE PROJECT.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
- 5. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND THE CITY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE CITY
- 6. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) UNITED STATES COAST AND GEODETIC SURVEY (U.S.C. & G.S.)
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE
- 8. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- 9. "AS-BUILT" DRAWINGS AS-BUILTS TO THE CITY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THERFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFIACTION, AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY STANDARDS AND SPECIFICATIONS AND FDEP REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRATOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 11. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
- 12. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- 13. CONTACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS, IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- 15. ALL DEBRIS RESULTING FROM ALL SITE WORK ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- 142 ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR OWNER.
- 15. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- 16. BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED BY AND COORDINATED WITH THE CITY OF GREEN COVE SPRINGS CITY MANAGER.
- 17. ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BE THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARTION OF THE ROADWAY SUB-BASE.
- 18. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE ON PLANS.
- 19, THIS PROPERTY IS SITUATED IN FLOOD ZONE: X

UTILITY CONTRACTOR NOTES

1. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS COMMMENCING ANY CONSTRUCTION. IF TH LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.

FOR REVIEW AND APPROVAL, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE, FITTINGS, APPURTENANCES OR STRUCTURES. 3. UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED. 4. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 5 ALL WATER AND SEWER CONSTRUCTION WITHIN THE CITY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.

GENERAL PAVING AND DRAINAGE NOTES

- 1. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED AS PER SPECIFICATIONS. ALL DISTURBED AREAS IN PUBLIC ROW SHALL BE SODDED.
- 2. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 3. LOCATION, EXISTENCE OR NON-EXISTENCE OF ANY UTILITY DOES NOT CONSTITUTE RESPONSIBILITY BY THE ENGINEER.
- 4. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER PRIOR TO CONSTRUCTION FOR VERIFICATION AND LOCATION OF ANY UTILITY.
- 5. GRADES SHOWN ON PLANS ARE FINISHED GRADES UNLESS OTHERWISE NOTED.
- 6. SHOULD THE SURFACE OR SUB-SURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THESE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 7. ALL ELEVATIONS AND GRADES REFER TO NATIONAL GEODETIC SURVEY DATUM.
- 8. CARE SHALL BE EXERCISED TO AVOID DAMAGE TO EXISTING ABOVE AND IN-GROUND UTILITIES INCLUDING TELEPHONE, WATER, CABLE, ELECTRIC AND SEWER LINES.
- 9. CONTRACTOR SHALL PROVIDE DRAINAGE AS-BUILT DRAWINGS BY A REGISTERED SURVEYOR TO INCLUDE THE FOLLOWING:
 - A) SIDE GRADES B) PIPE INVERTS C) DRIVEWAY GRADES
- 10. SOD ALL SIDE SLOPES GREATER THAN 4:1.
- 11. INSTALL CONSTRUCTION SIGNS & EROSION CONTROL MEASURES PRIOR

GENERAL EROSION CONTROL NOTES:

- 1. THESE PLANS INDICATE THE MINUMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOMENT MANUAL A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE 13. ADJOINING/EXISTING STREETS MUST BE CLEARLY SHOWN AND LABELED, TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS, IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES,
- 2. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE EDEP SPECIFICATIONS
- 3. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WEILAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION ...
- 4. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- 5. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS, IF REQUIRED. EPA ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND
- 6 DURING CONSTRUCTION ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE PREVENTION OF DOWNSTREAM/TURBIOTTY/SITATION THROUGH THE USE OF HAY BALES, SCREENS, SILTATION BASINS, CHEMICAL FLOCULATION AND/OR ANY OTHER SUITABLE MEANS REQUIRED TO MEET FLORIDA STREAM STANDARDS. SEED AND MULCH ALL DISTURBED AREAS, SOD AS REQUIRED TO CONTROL EROSION THROUGH FINAL INSPECTION AND TO PRODUCE A UNIFORM STAND OF GRASS THROUGHOUT

GENERAL AS-BUILT REQUIREMENTS

1, FIVE DAYS BEFORE THE FINAL INSPECTION, 2 SETS OF SIGNED AND SEALED AS-BUILTS AND 1 ELECTRONIC COPY ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL, THEY FOLLOWING ARE THE GENERAL AS BUILT

2. AS-BUILTS SHALL BE SUBMITTED ON THE APPROVED GRADING/DRAINAGE PLAN PROVIDED BY THE ENGINEER OF

3. ALL DRAINAGE STRUCTURES OUTSIDE OF THE ROADWAY SHALL BE LOCATED FROM BACK OF CURB AND THE PROPERTY LINE ADJACENT TO THE STRUCTURE

4. ALL UNDERDRAIN AND STORM DRAIN LINES SHALL HAVE THE ELEVATIONS, SIZES, SLOPES, AND LENGTHS VERIFIED BOTH INSIDE AND OUTSIDE OF THE ROADWAY

ALL PONDS SHALL BE CROSS-SECTIONED SHOWING THE BOTTOM, MID SLOPE, NORMAL WATER LINE AS DEPICTED BY 6. ALL SWALES SHALL BE LOCATED AND CROSS-SECTIONED EVERY 25', ELEVATIONS ARE TO BE BOTH TOP OF SLOPE AND CENTERLINE.

7. THE ROADWAY SHALL BE CROSS-SECTIONED EVERY 100' AND 50' ON ALL CURVES. THE CROSS SECTIONS SHALL INCLUDE ALL PC'S, PVI'S, PT'S AND CURB RETURNS.

B_ ALL CUL-DE-SAC CURBING SHALL BE SURVEYED EVERY 25' AROUND STARTING AT THE BACK OF THE CUL-DE-SAC

9. A BENCHMARK SHALL BE LOCATED ON EACH SHEET

10. AS-BUILTS SHALL BE SIGNED IN BY THE COMPANY DROPPING THEM OFF. IF REVISIONS ARE REQUIRED. THAT COMPANY WILL BE NOTIFIED TO PICK THEM UP FOR REVISION. ONCE REVISIONS HAVE BEEN MADE, THE DOCUMENTS

11. SUBMIT ONE DIGITAL AS-BUILT AS A DGN OR DXF FILE (STANDARD DIGITAL EXCHANGE FORMAT AUTOCAD ETC.) IN CD

12. AS-BUILT MUST BE IN FLORIDA STATE PLANE COORDINATE SYSTEM USING THE NAD 83 DATUM AT A 1: 1 DRAWING SCALE IN US SURVEY FEET

PROJECTED CORRINATE STSTEM: NO. 1993_STATEPLANE_FLORIDA_EAST_PPS_0901_FEET
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- 14. NO EXTERNAL REFERENCE FILES ATTACHED
- 15. RECORDED SUBDIVISION NAME AS PER PLAT SHALL BE LABELED ON THE AS-BUILT.
- 16. ALL STORM SEWERS, PONDS AND OUTFALL AND STRUCTURES ARE TO BE CLEARLY LABELED.
- 17. THE ENGINEER WILL BE RESPONSIBLE FOR ANY ROTATION AND/OR TRANSLATION,

GENERAL FIRE DEPARTMENT REQUIREMENTS

Call Fire Prevention@ (904) 284-7703 at least Forty Eight hours in

Fire protection line shall be install with a license Fire Protection Contractor.

Fire department connection for fire sprinkler system shall not be located on the building and shall be 5 Storz Connection.

The Back Flow Preventor Shall Be Protected from Freezing Weather. Fire Protection Line shall be installed as per NFPA 24.

All joints accessories to Fire Protection Line shall be thoroughly coated with an Asphalt or other Corrosion retarding material after installation NFPA 24- 10.3.6.2

Notify Fire Prevention for inspection after completion of assembly of Fire Protection Line in trench

Fire Protection Line installing Contractor shall have Contractors Material and Test Certificate(s) readily available after completion of Fire Protection Line Hydrostatic Test NFPA 24-10.10.2

Fire Prevention shall witness flushing of Fire Protection Line

Clearances of 7½ ft. in front of and to the sides of the fire hydrant and fire protection appliance, and with 4ft. to the rear of the hydrant and fire protection appliance.

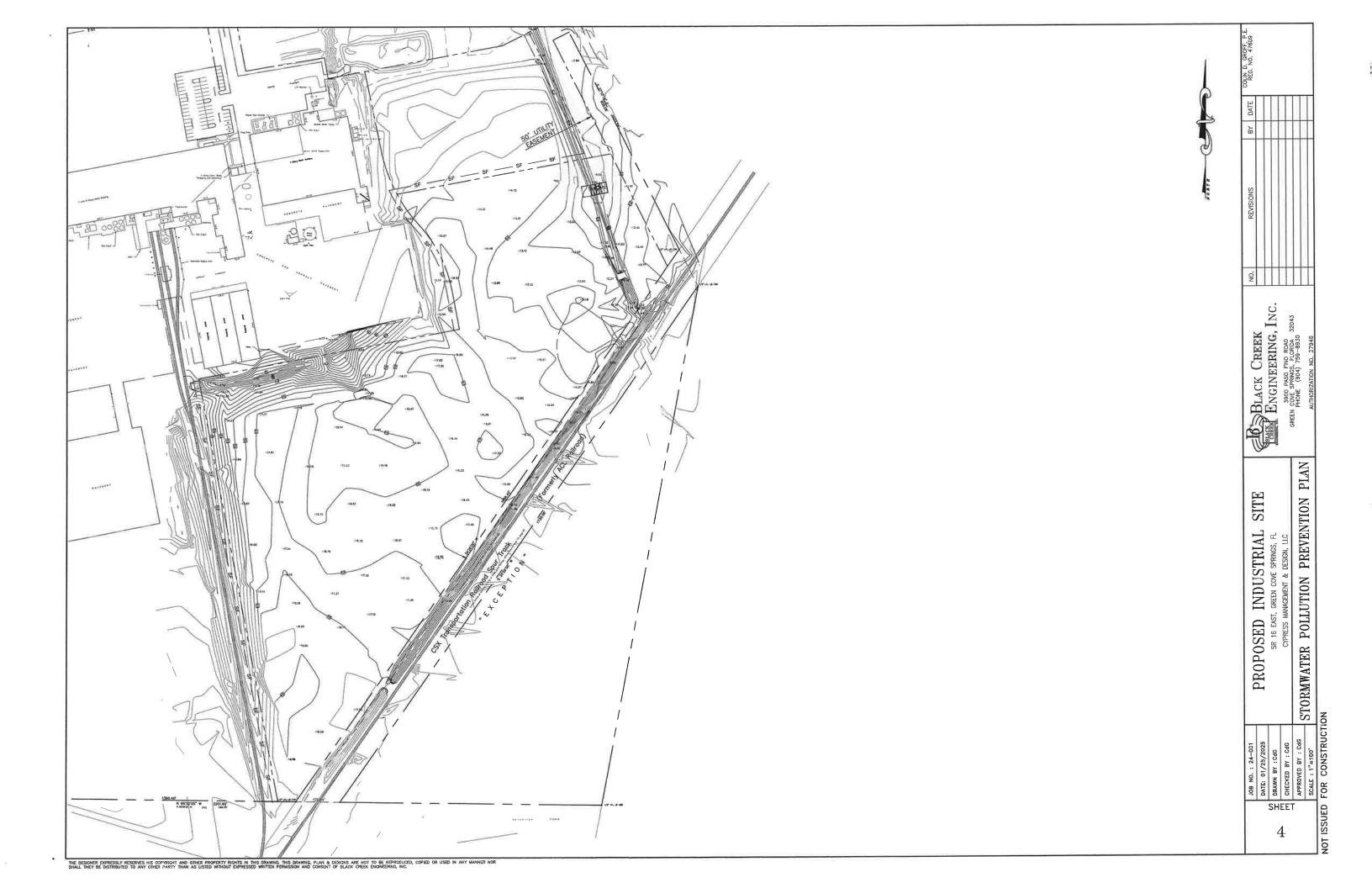
Contact Fire Prevention Bureau for permit card.

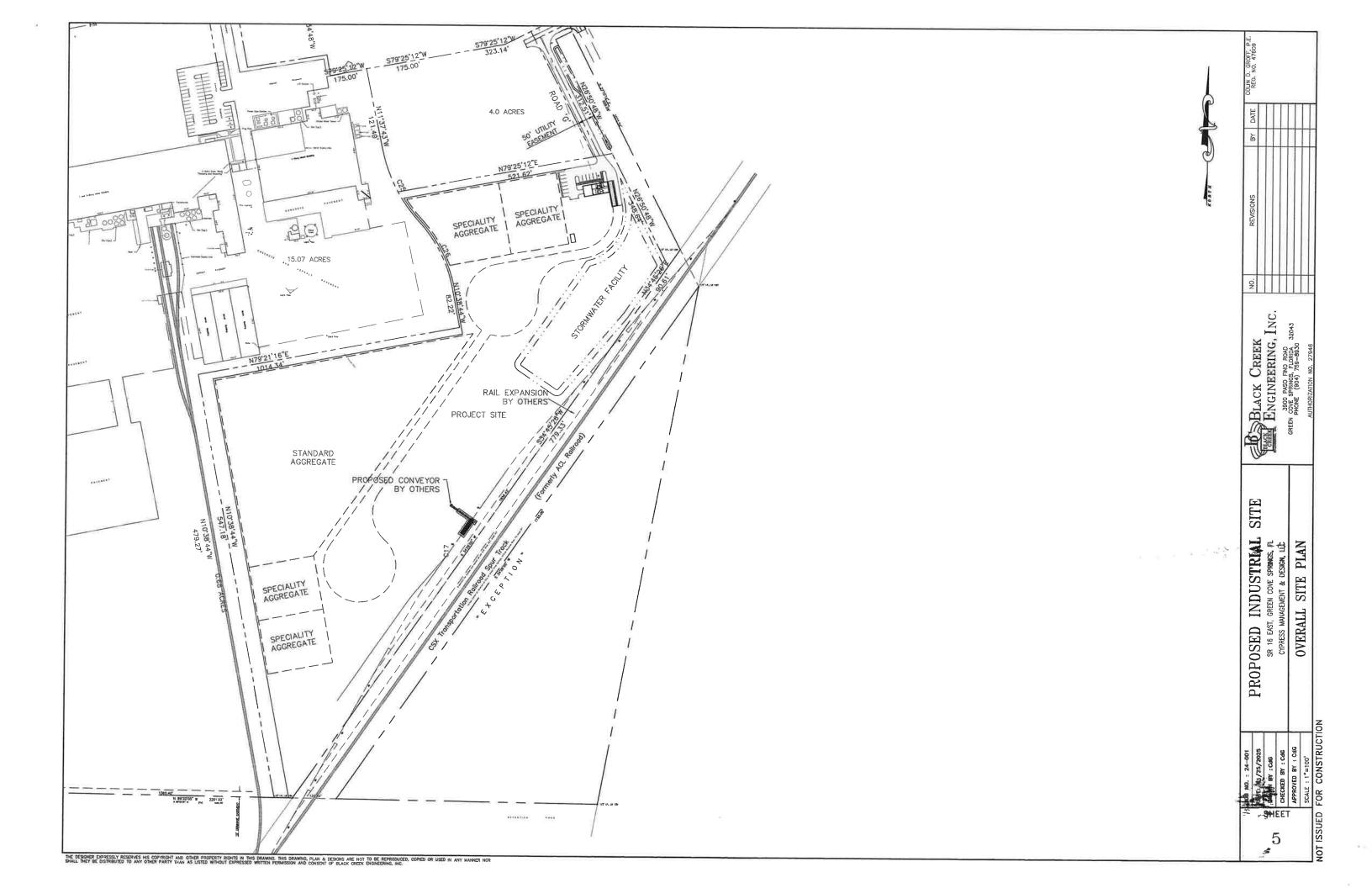
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER 6. ALL WATER LINES CROSSING SANITARY AND STORM SEWER LINES, AS WILL VALVES AND FITTINGS, MUST HAVE MINIMUM 18" VERTICAL SEPARATION. IF THIS CANNOT BE OBTAINED, THE WATER MAIN MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10' EITHER SIDE OF SANITARY OR STORM SEWER MAIN, OR INSTALL WATER MAIN IN D.I. SLEEVE MIN. LENGTH 20' CENTERED, ENDS OF SLEEVE TO BE GROUT FILLED, IN EITHER CASE, MINUMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED. 7 RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH UTILITY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 8, UNLESS OTHERWISE NOTED, ALL WATER MAIN 2" OR SMALLER SHALL BE SCHEDULE 80 PVC AND N.F.S.P.W. RATED 9. THE CONTRACTOR SHALL OBTAIN ALL PERMITS TO COMPLETE THE CONSTRUCTION.

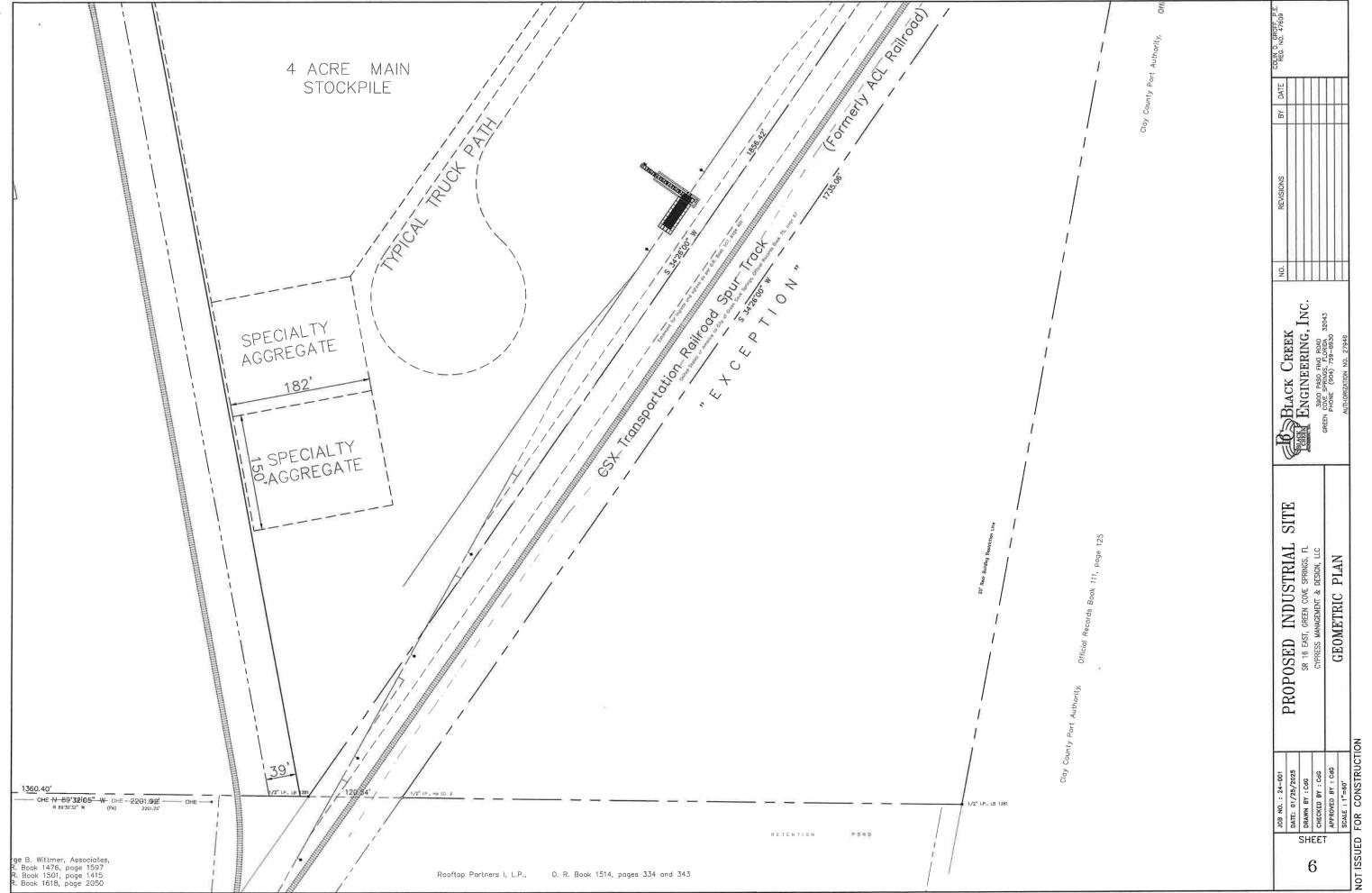
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ر د ا	MAN DE PRINCE CREEK	COME ENGINEERING,		GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8930	AUTHORIZATION NO. 27946	
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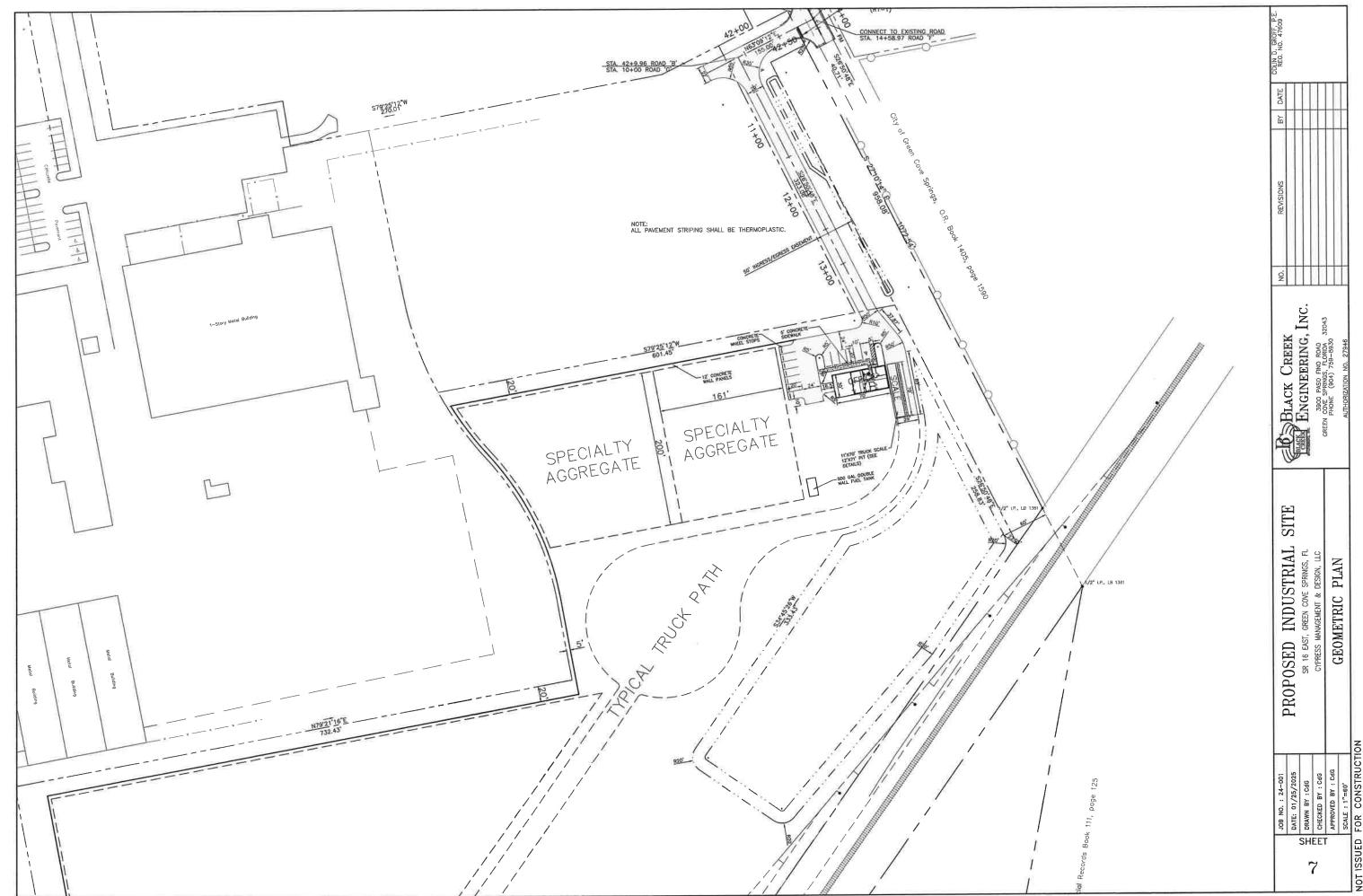




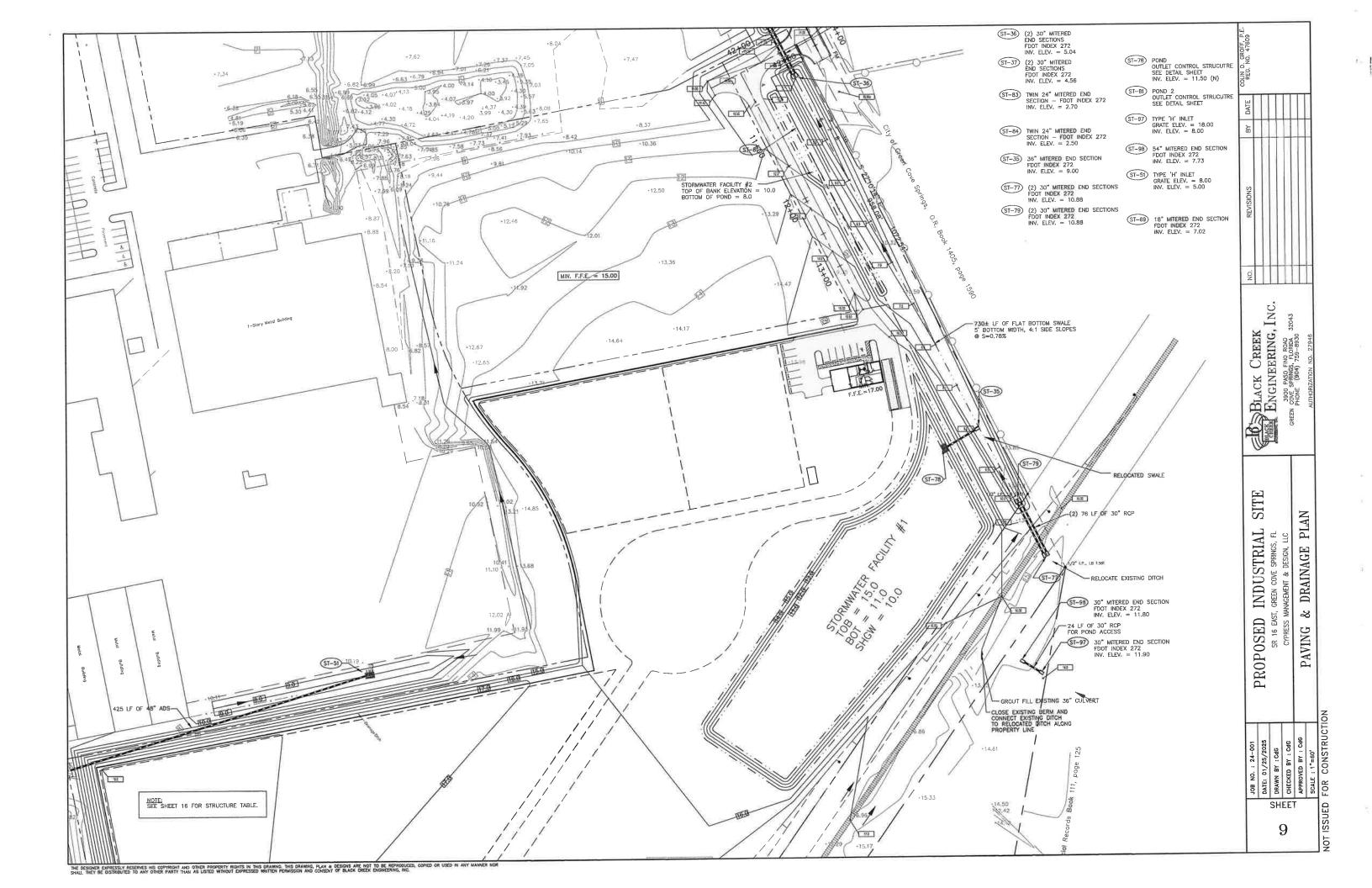


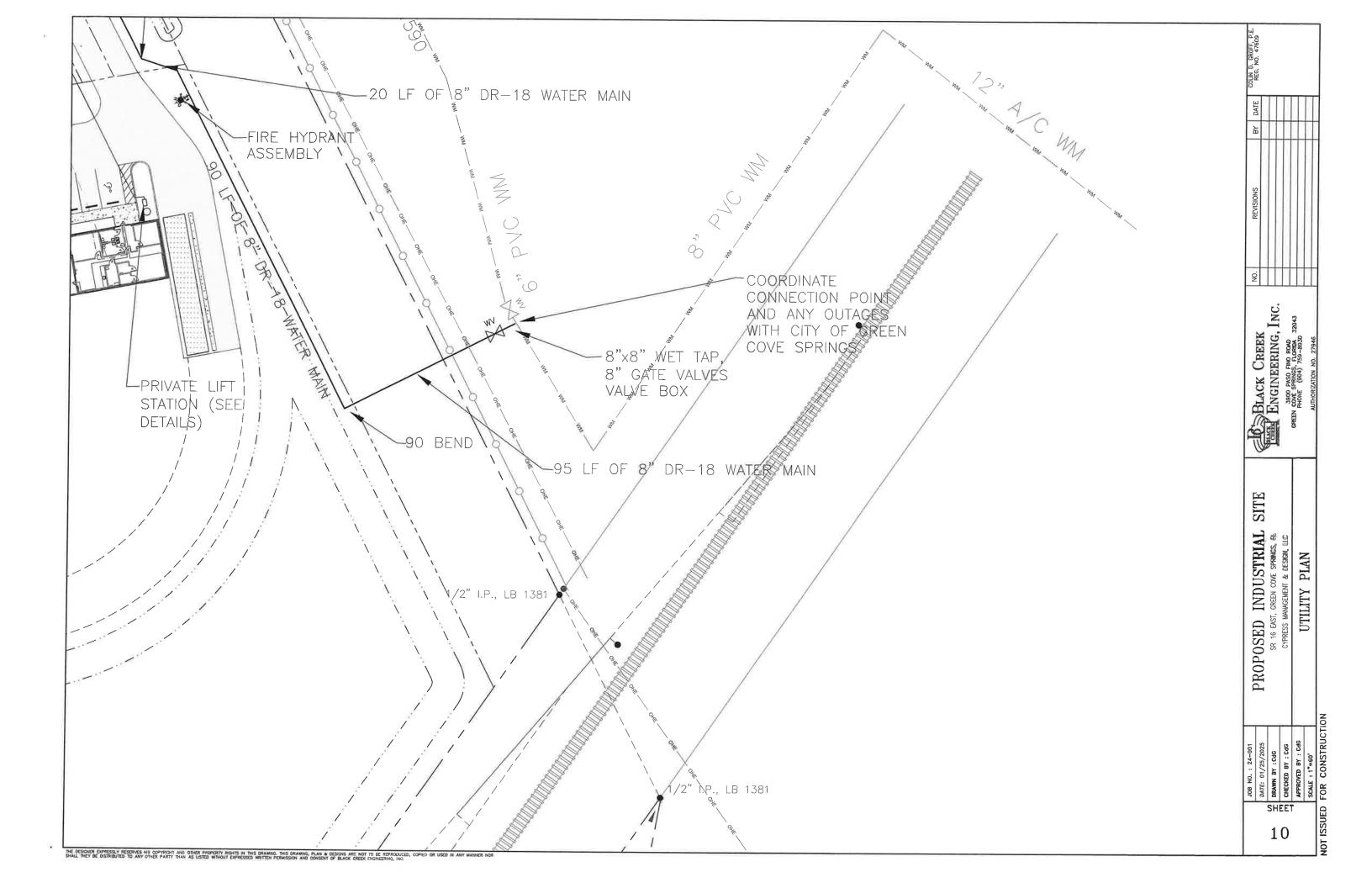


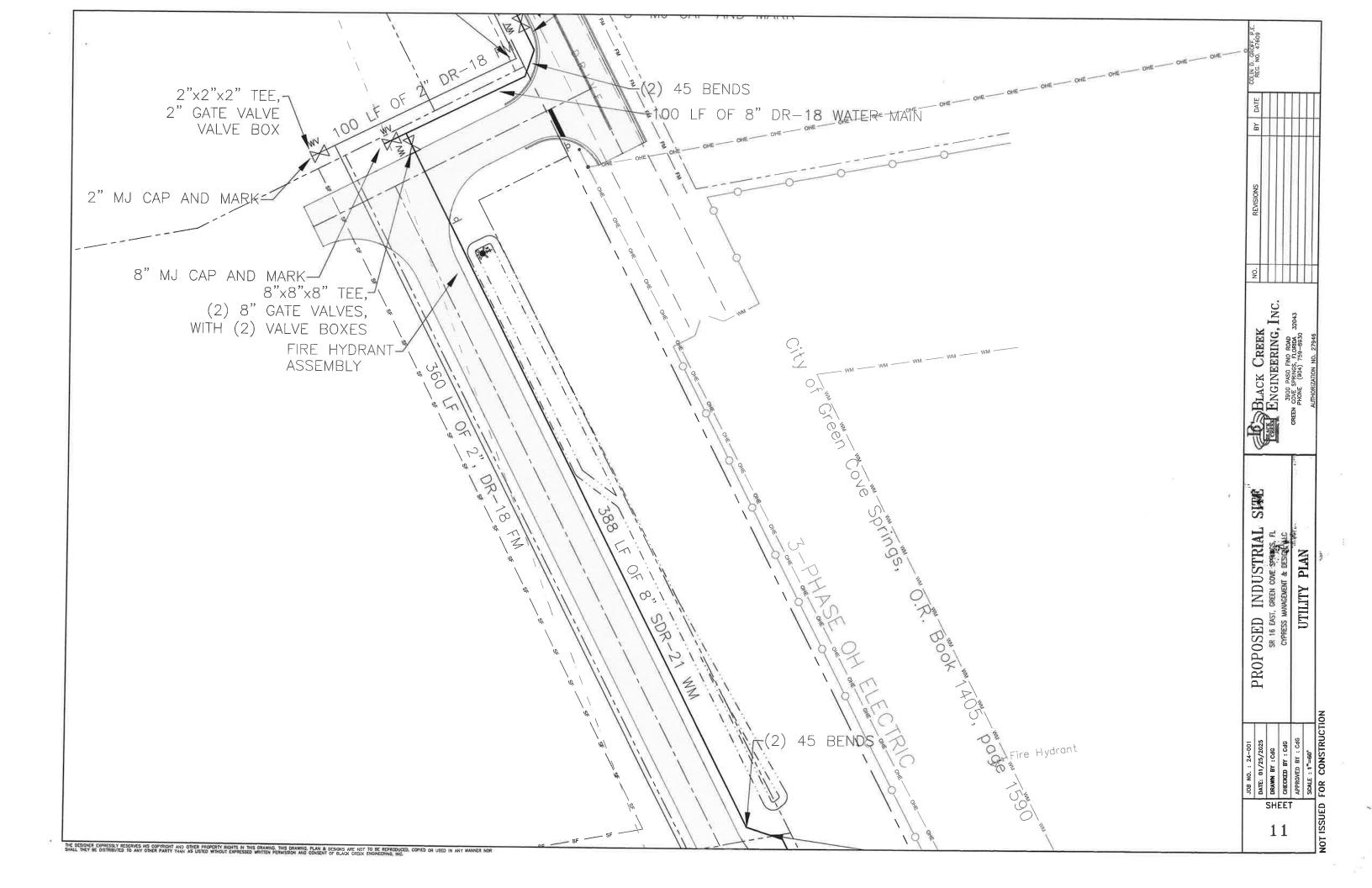
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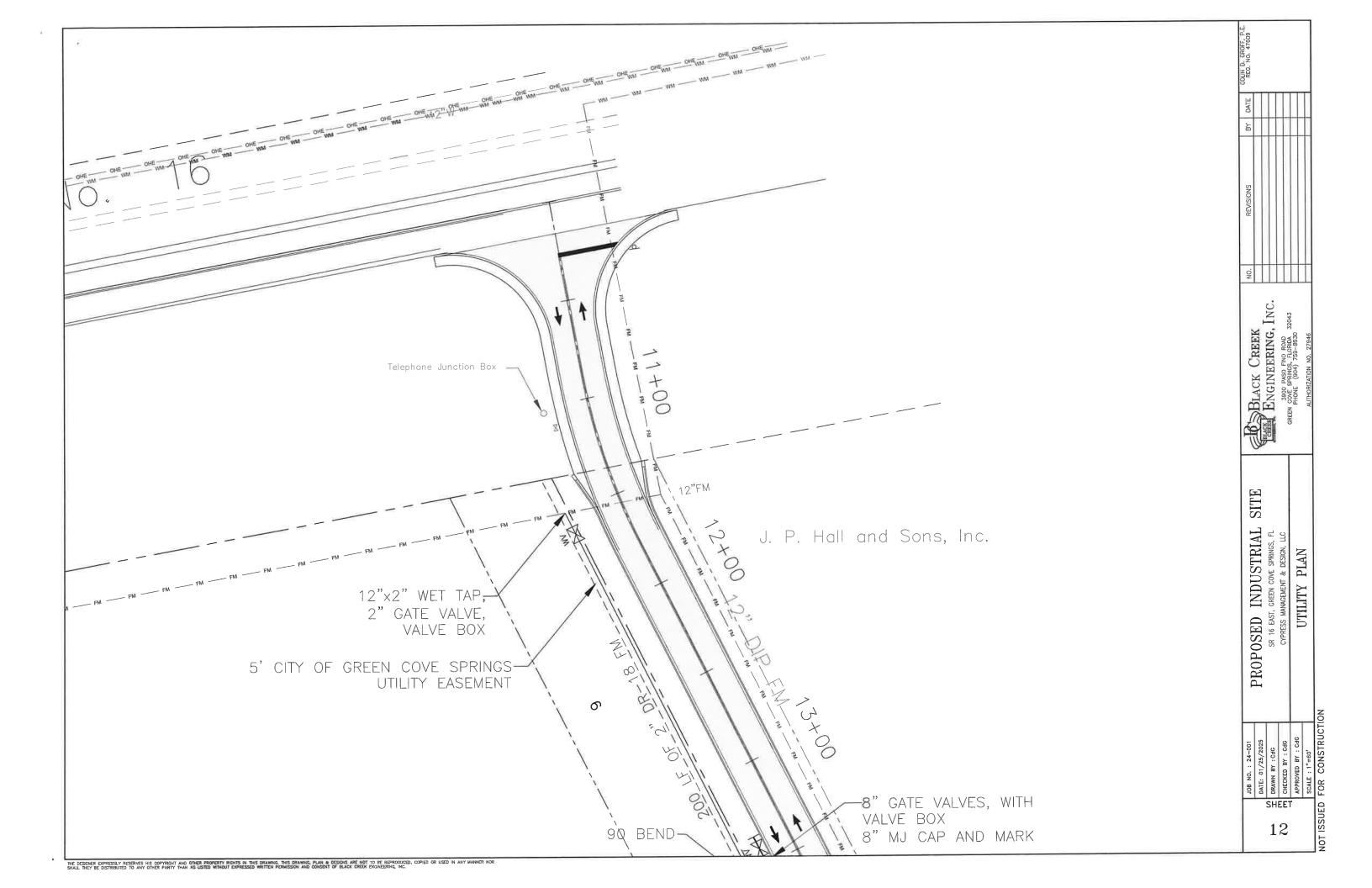


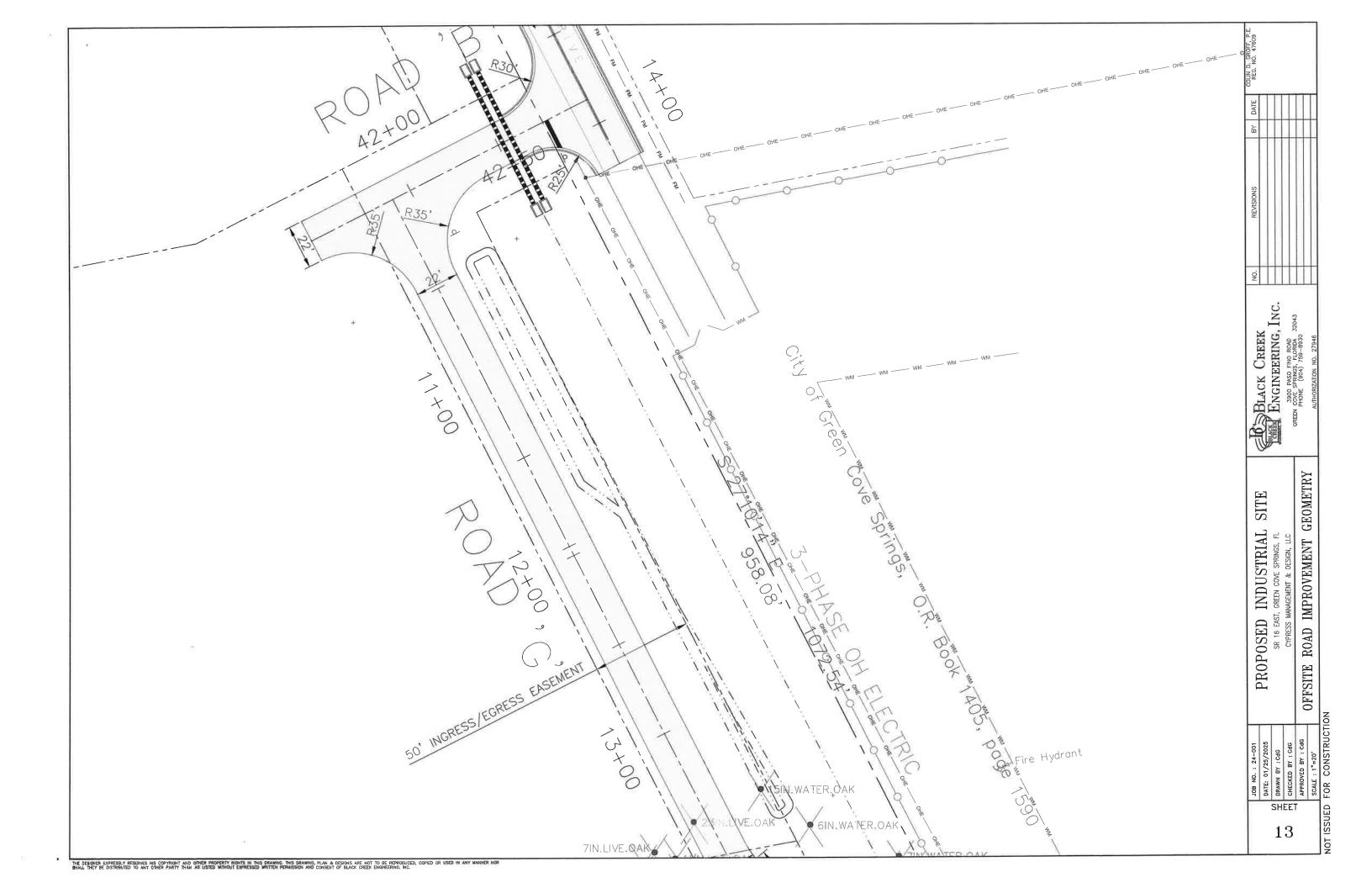


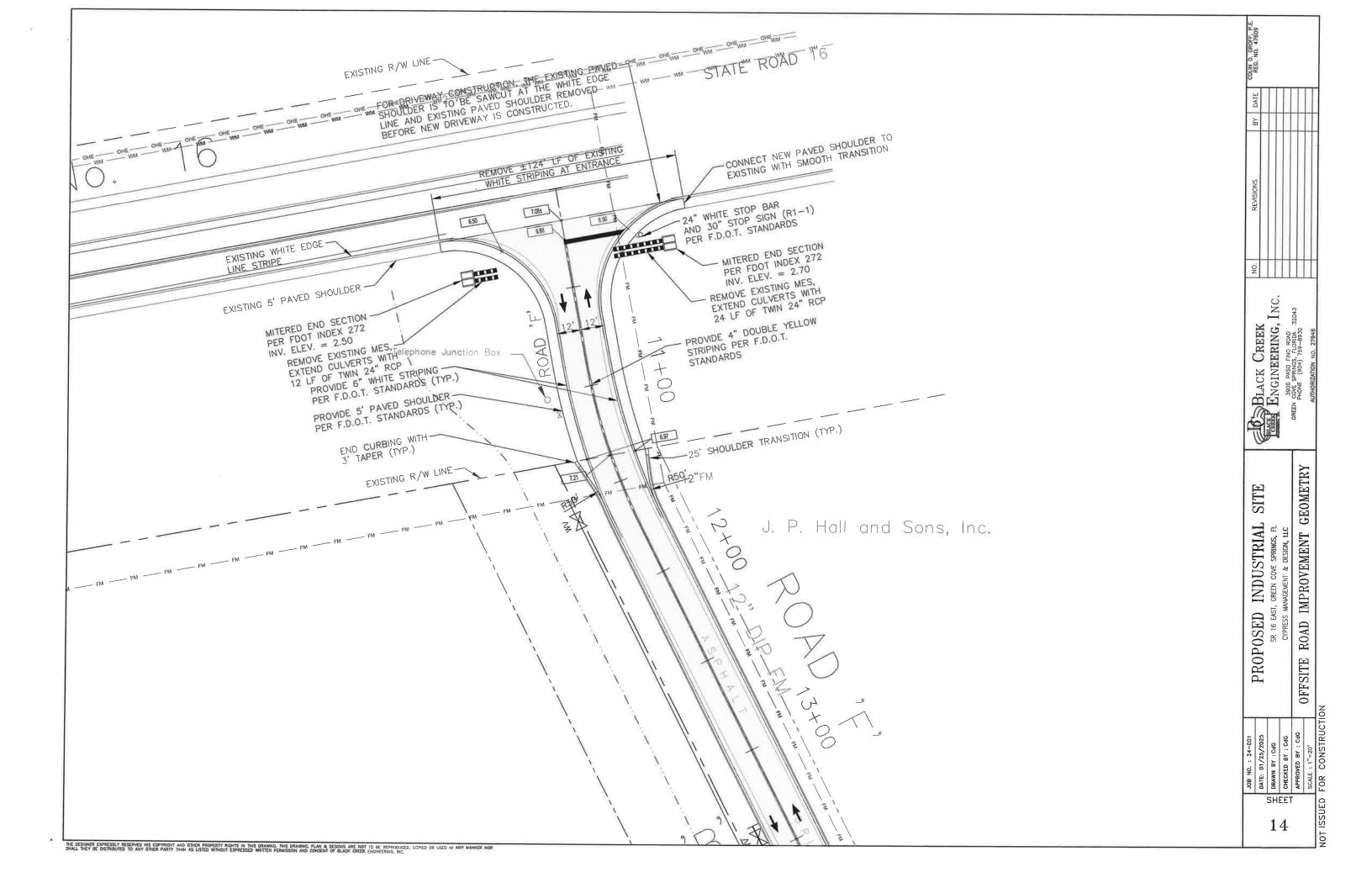


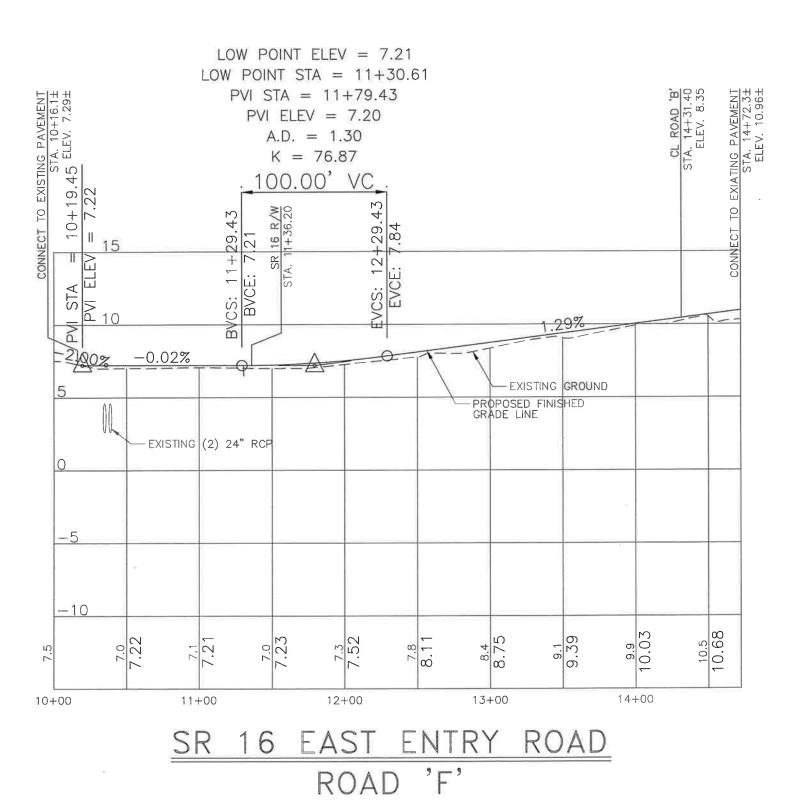












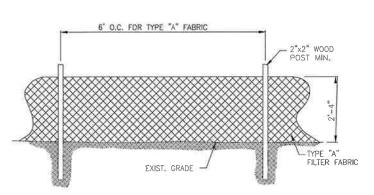
GREEN CREEK

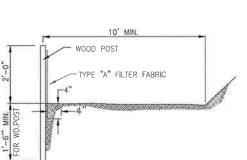
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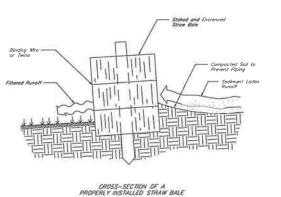
SHOW STOND PROPOSED INDUSTRIAL SITE SR 16 EAST, GREEN COVE SPRINGS, FL ROAD PROFILES

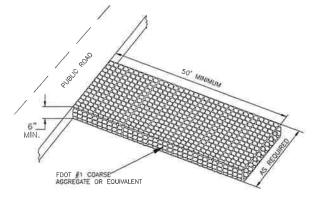
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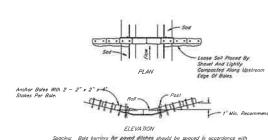


STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

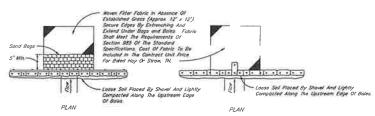
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BARRIER FOR PAVED DITCH

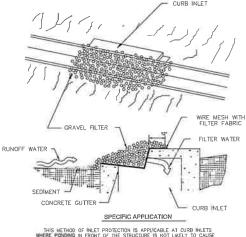




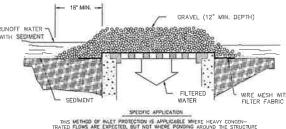
ELEVATION

TYPE I

HAY BALE BARRIERS TYPE I & II



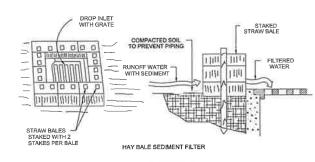
GRAVEL CURB INLET SEDIMENT FILTER



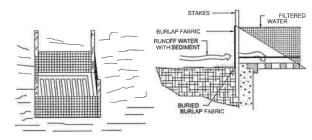
GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

GRAVEL INLET SEDIMENT TRAP

N.T.S.



SPECIFIC APPLICATION



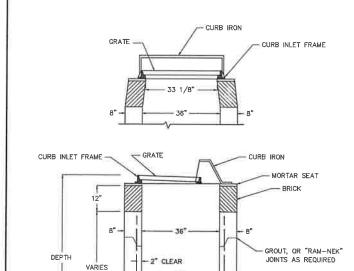
FABRIC SEDIMENT FILTER

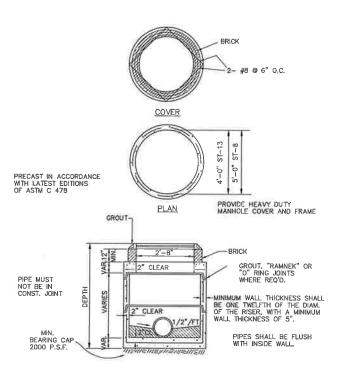
SPECIFIC APPLICATION

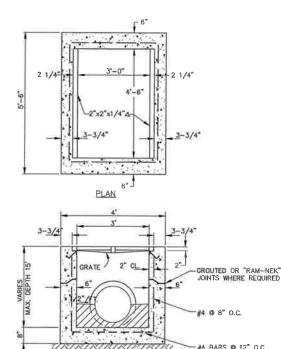
DROP INLET SEDIMENT TRAP

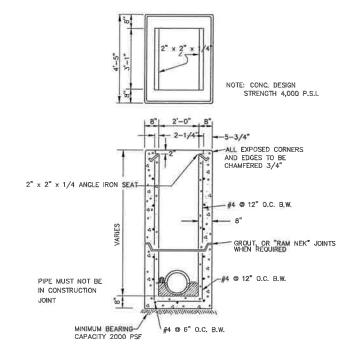
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- CONC. DESIGN STRENGTH 4,000 PSI PIPES SHALL BE FLUSH WITH INSIDE WALL PIPE MUST NOT BE IN CONST. JOINT

NOTE: SKIMMER REQUIRED ON ALL WEIRS.

CURB INLET DETAIL NOT TO SCALE

BEARING CAPACITY MINIMUM 2000 PSF

#4@ 12" O.C. B.W.

#40 6" O.C. B.W.

STORM SEWER MANHOLE

NOT TO SCALE

TYPE 'E' INLET DETAIL NOT TO SCALE

AMIN. BEARING CAPACITY 2000 PSF

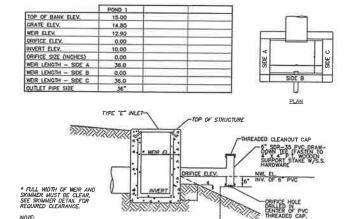
SECTION

1. CONC. DESIGN STRENGTH 4000 PSI.
2. PIPES SHALL BE FLUSH WITH INSIDE WALL.

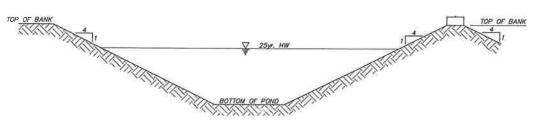
3. PIPE MUST NOT BE IN CONST. JOINT 4. SLOT OPENINGS SHALL NOT BE IN WALLS WITH GRATE SEAT.

NOTES:

TYPE 'C' INLET DETAIL NOT TO SCALE



	POND 1	POND 2	
TOP OF BANK ELEV.	15.00	10.00	
NORMAL WATER LEVEL	N/A	N/A	
BOTTOM OF POND	11.00	8.00	
MEAN ANNUAL WATER LEVEL	10.00	7.00	
25 yr. WATER LEVEL	14.69	9.80	



POND TYPICAL SECTION NOT TO SCALE

MIN. 2" LOAM

* SIDE SLOPES = 3:1 OR FLATTER.

TYPICAL SWALE SECTION

OUTLET CONTROL STRUCTURE DETAIL

NOT TO SCALE

SECTION

NOT TO SCALE

THE DEDONCE EXPRESSLY RESILVES HIS CONTRIBUT AND OTHER PROPERTY RIGHTS IN THIS DRAWING, THIS DRAWING, PLAN & DESONS ARE NOT TO BE REPRODUCED, COPIED OR USED IN ANY MAINER NOR SHALL THEY BE DISTRIBUTED TO ANY OTHER PARTY THAN AS USTED WITHOUT EXPRESSED WRITTEN PERMISSION AND CONCENT OF SLACK CHICK EXCHAERING, INC.

SHEET

NOT ISSUED

BLACK CREEK

BUREEN ENGINEERING, INC.

3900 PASO FINO STADAGE

GREEN COVE STRRINGS, ALORDA

GREEN COVE STRRINGS, ALORDA

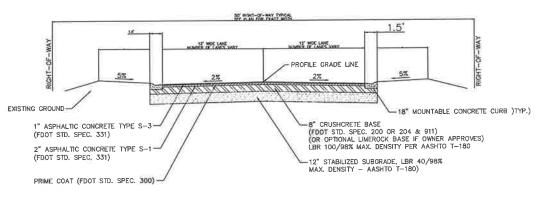
GREEN COVE (904), 759-8830

SITE

PROPOSED INDUSTRIAL

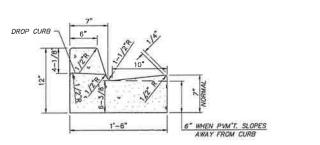
DETAILS

CONSTRUCTION



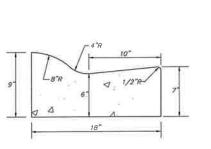
TYPICAL ROAD SECTION

NOT TO SCALE

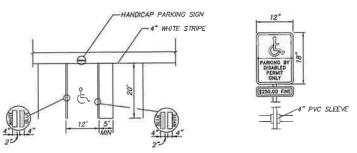


18" CURB AND GUTTER DETAIL

NOT TO SCALE

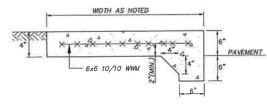


GUTTER DETAIL NOT TO SCALE

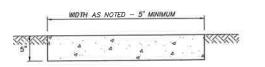


NOTE
EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE
POSTED AND MAINTAINED WITH A PERMANENT, ABOVE—GRADE SIGN BEARING THE INTERNATIONAL SYMBOL
OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY", OR BEARING BOTH SUCH
SYMBOLS AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
ALL HANDICAPPED PARKING SPACES MUST BE DESIGNED AND MARKED IN ACCORDANCE WITH THE
STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.

HANDICAP PARKING DETAIL



SIDEWALK WITH TURNDOWN SECTION



CITY RIGHT-OF-WAY SIDEWALK SECTION

- 1. CONCRETE SHALL BE 3000 PSI, MIN. SLUMP 5".
- SAW CUT CONTROL JOINTS AT SPACING EQUAL TO WIDTH OF SIDEWALK.
- INSTALL EXPANSION JOINT AT EVERY FOURTH CONTROL JOINT (25' MAX.).
- 4. USE TURNDOWN SECTION WHERE SIDEWALK ABUTS PAVEMENT.

SIDEWALK SECTIONS NOT TO SCALE

JOB NO. : 24-001	HEND INIGHBUILDING	RED. S. Change	NO.	REVISIONS	
DATE: 01/25/2025	PROPOSED INDUSTRIAL SILE	MAC TO THE STATE OF THE STATE O			
DRAWN BY : CdG	SR 16 EAST, GREEN COVE SPRINGS, FL	LOGINEERING, INC.			П
CHECKED BY : CdG	CYPRESS MANAGEMENT & DESIGN, LLC	3900 PASO FINO ROAD			1.5
APPROVED BY : CdG	CONCEDITORION DETAITS	PHONE (904) 759-8930			
SCALE : 1"=60'	CONSTRUCTION DETAILS	AUTHORIZATION NO. 27946			Н
MOITOITOTONOO GOT	NO				

SHEET

SPECIFICATIONS DESIGN CONDITIONS

MODEL	WG30-WGX30-3 HP	H.P.	3
VOLT	230	PHASE	3
DISCHAR	GE 2"	IMPELLER_	4 3/4
GPM	78	TDH	54'

A WESS "SWEA-GEND" AND HAVE AN INTEGRALLY BULT IN CHINDER UNIT AND SUBMERBELE "JUP SHALL SE SUFFOCED IN THE BASH IS IT THO (2) 1-1/A" STANLESS STEEL QUICE RALLS AND THE OWNER ASSEMBLY. SOLOS SHALL SE FED IN AN UPPLOW DIRECTION TO THE GRADER OSSINUCIONS SELDOW THE GRADER WALT.

MOTOR

THE PUMP MOTOR SHALL BE OF THE SUBMERSBLE TIPE BATED FOR 3, 5, 7-1/2 HORSEROWER AT 3450 RPM. MOTOR SHALL BE SHOLE PHASE, OR THREE PHASE, 60 HOREZ. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR RIN THREE PHASE MOTORS SHALL BE OF THE CAPACITOR STATE.

THE STATOR MINORIS SHALL BE THE OPEN THE WITH CLASS F PREJUATION RATED FOR 105' C MAXWAYA OPERATION THROUGH THE WINDOW HOUSING WALL OF FALLEY WITH CLEAN DELECTION OF THAT WILL LEGIBLATE ELANDOWS, SEAS AND TRANSPER HAST FROM THE WOMENED TO THE CONTINUE OF THE VIEW OF BUSINESS OF THE CONTENT OF THE VIEW OF

THE MOTOR SHALL HAVE TWO BALL SEARNINGS TO SUPPORT THE ROTOR: AN UPPER BALL SEARING TO ACCOMMIGNATE THRUST SEARCH AND A LIGHTE BALL SEARNING TO "ANE RADUAL LOADS. BALL SEARINGS SHALL SECURING TO "ANE RADUAL LOADS. BALL SEARINGS SHALL SECURING TO "ANE RADUAL LOADS." BALL SEARINGS SHALL SECURING TO "ANE RADUAL LOADS." BALL SEARINGS SHALL SECURING TO "ANE RADUAL LOADS."

SEAL CHAMBER

PUMP IMPELLER

PUMP & MOTOR CASTINGS

ALL ROBE CASTING SHALL BE OF HIGH TENSIE CAST ROW AND SHALL BE PROPURLY CLEMED, PRE-TREATED WITH CHEROLE RINGE, AND PRANTED WITH A HIGH QUALITY CHAMAL PAINT. ALL RUMP COMPONENTS THAT ARE NOT CAST ROW OF STANDESS STEEL, SHALL BE CALVANIZED ON PAINTED WITH BAKED-ON EPOXY. ALL FASTENERS SHALL BE \$502 STAINLESS STEEL. SERVICE

PUMPS, PARTS, & AND SERVICE SHALL BE AVAILABLE FROM AN AUTHORIZED MANUFACTURERS (MYERS) WARRANTS SERVICE STOCKING DISTRIBUTOR. WET WELL

INLET HUB

SHALL BE C.P.C. RESILENT MOUNT SEALING SYSTEM, COMPLETE WITH, GASKETS AND FLEXIBLE PIPE COUPLER, STANLESS STEEL MOUNTING MARDWARE

VALVE BOX

SHALE COC MODEL MESSES PRESCUES, VALVE BOX WITH ME. FOUNDERF ARE—150 ALLMANAN VALVE DOX.
OCHER VANAN BOX SHALE RECOMPRETELY PRE-PARABLE DUMP ALL SCHEDULE BOY PER PRING AND FITTINGS, AND
SHALL INCLIDE THE (2), 2" SCHEDULE BOY PRI PANAGED BALL DESCN VALVES, AND THREE (3), 2" SCHEDULE BOY PRI
PANAGED CHIT WALVES. (004: (1)) 2" CAST VALVE IS SUPPLIED, AS AN DESCRIPTION—011). PICE PROPIES IN
VALVE OF THE PANASE PRINCIPLE OF THE PANASE CHIT AND SHALE BOX STREET AND THE CONTROL OF THE PANASE CHIT STREET OF THE

ALUMINUM HATCH COVERS

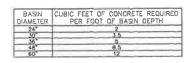
SHALL BE FABRICATED FROM 1/4" ALUMBRUM DRAWIND PLATE AND BUILT TO WITHSTAND A LOAD OF 150 LB. P.S.F. AND SHALL BE MANUA CENTRO BY U.S. FRUNCHY, HALLDAY, OR EQUAL. STANLESS STEEL BOILS, NUTS AND HINGES — LOCKING 57AVG.

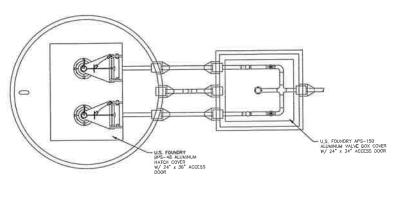
FLOATS SHALL BE S.J. ELECTRO SENSOR MASTER MECHANICAL FLOAT SWITCHES RATED AT 5 AMPS AT 120 OR 230V. NO MERCURY WILL BE ALLOWED IN WETWELL.

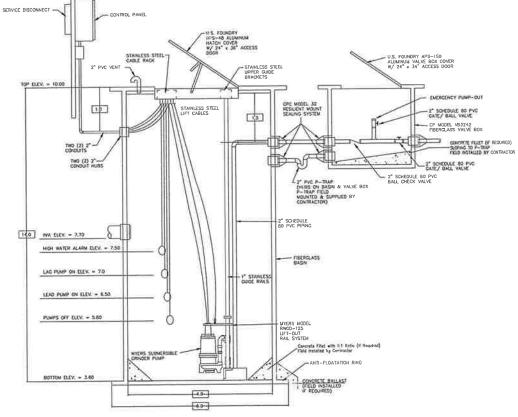
ACCESSORIES

ANTI-FLOATATION

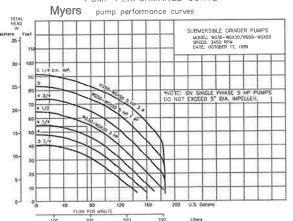
CONCRETE IS RECOMMENDED TO PREVENT FLOATATION OF THE FINEROLASY BASIN. THE FOLLOWING LISTS THE CUBIC FEET REQUIRED PER FOOT OF BASIN DEPTM



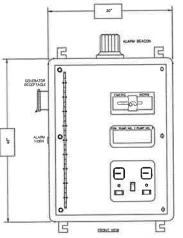




PUMP PERFORMANCE CURVE



* NOTE CONTRACTOR TO FIELD VERIFY PHASE AND VOLTAGE



PER D.E.P. REQUIREMENTS

SPECIFICATIONS FOR DUPLEX D.E.P. TYPE CONTROL PANEL

EACH PANEL SHALL CONTROL TWO 3.0 HP, 230 VOLT, 3 PHASE, 60 Hz PUMPS.

A NEUTRAL SHALL BE SUPPLIED TO THE PANEL FOR 120 VOLT CONTROL POWER.

PANEL ENCLOSURE

DICCOUNT SHALL BE NEMA 4 FARRICATED FROM X FIBERCLASS.

STANLESS STATU.

AUDANIES STATU.

FARRICO-STELL OUTSE DOOR SHALL HAXE HIGHS AND MEAN TORPACOCHAIL NEED GEARWIGHT DOOR SHALL BE.

FRANTICO-STELL OUTSE DOOR SHALL HAXE HIGHS AND MEAN TORPACOCHAIL NEED GEARWIGHT DOOR SHALL BE.

FRANTICO-STELL TOOR SHALLER AND MACHES SHALL BE STANLESS STATU.

RESPONDED TO THE TAPPING SCREW NOT ACCEPTABLE ALL DOORS SHALL BE STANLESS STATU.

THE FOLLOWING MAJOR COMPONENTS ARE REQUIRED:

FOLLOWING WILDOW COUNDENTS ARE RELIDING.

1) MAIN BERGERICH INFLANCE AND COMERATOR MICHIPACLE—BUSSELL STOLL.

3) FRANCE BERGERICH BERGERE

5) AUTHARIA CONTROLL FRANCE AND UDIT

7) HOCH LEVEL FLASHICK ALLAN UDIT STATES.

9) AUTHARIA CONTROLL FLASHICK ALLAN UDIT STATES.

10) FRANCE LEVEL HOCH HALAN UDIT STATES.

10) FRANCE LIVEL HOCH HALAN UDIT STATES.

10) FRANCE LIVEL HOCH STATES UNDERSING BELAY IF 3 PHASE, UNDER VOLTACE MONTORNO HELAY IF SINGLE PHASE

10) FRANCE LIVEL WILDOWS STATES WITH OVERFLOAD PROTECTION FOR ALL FORMS LEGS.

10) FRANCE LIVEL WITH STATES WITH OVERFLAYS AS APPROVED FOR MYERS PUMPS ON SMIGLE PHASE SYSTEMS.

ON RISE LEVEL:

ALL PUMPS WILL DE-ENERGIZE AT THE OPENING OF THE LOWEST (OFF) FLOAT

CONTROL CIRCUITRY WILL BE SUCH THAT NO FLOAT WILL DEPEND ON ANOTHER FLOAT FOR ITS CONTROL POWER, CONTROL PANEL SCHEMATICS, IN PLASTIC LAMINATE, IS TO BE AFFIXED TO THE INSIDE OF THE OUTER DOOR, ALL WIRING SHALL BE NUMBERED.

IN THE EVENT THE PUMPS BONG FURNISHED REQUIRE STAL FAILURE COMPONENTS AND INDICATION TO VALUATE WARRANTY, THESE COMPONENTS SHALL BE FURNISHED AS REQUIRED.

ALL COMPONENT LABELS SHALL BE OF THE LAZER PRINTED MYLAR PLASTIC LABELS.

A 24 HOUR ENERGENCY TELEPHONE CONTACT SHALL BE DISPLAYED BY THE OWNER

For Complete Technical Assistance Call:

Custom Pump & Controls, Inc. 6034 Jet Port Industrial Blvd. Tampa FL 33634

TEL: (813) 886-6255 FAX: (813) 886-3508

TOLERANCES		REVISION	s		OM PUMP & CO		
DATE IN MARKE	NO.	DATE	81	JACK	SONVILLE-TAME	A, FLORIDA	
DECHAL	18			2	H.P. PACKAGED	GRINDER	
±	- 2			PUMP	PUMP-FIBERGLASS L		
TRACTIONAL.	3	_	1	DRAWN BY CADRIES	SCALE N.T.S.	MATERIAL	
# SAUDILAR	-			CMC)	DATE 3-25-93	CHANNE NO.	
ANGULAY	1	_	1	IRACED	REVISED: 08-14-01	C9315	

INC. BLACK CREEK

Suge Pass From Road

Street Cove Sprengs, 1,080,0 220

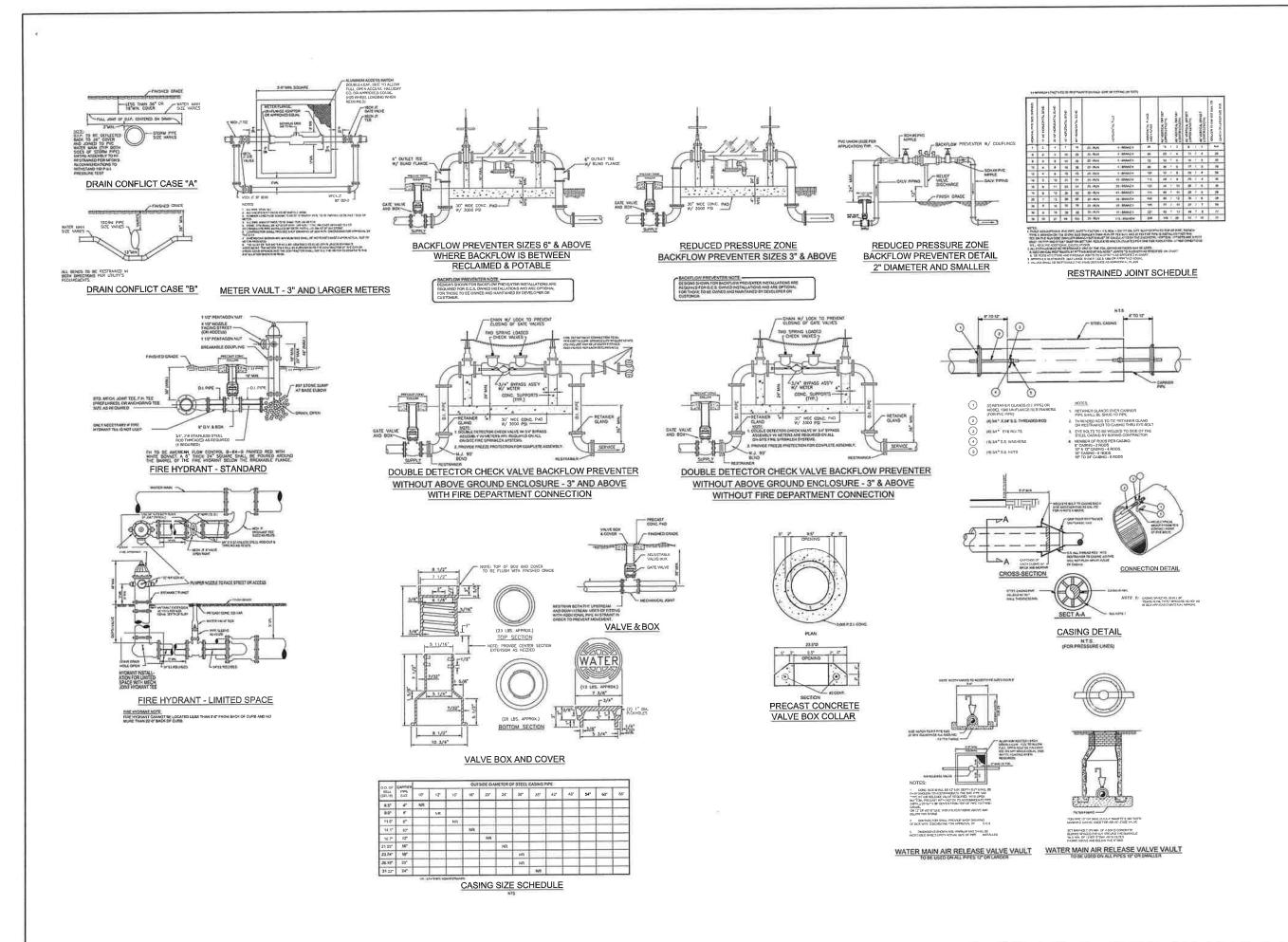
GREEN COVE SPRINGS, 1,080,0 220

FROM COVE SPRINGS, 1,080,0 220

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SITI

STATION INDUSTRIAL PRIVATE PROPOSED JOB NO.
DATE: O
DRAWN
CHECKEI
APPROVE
SCALE: SHEET



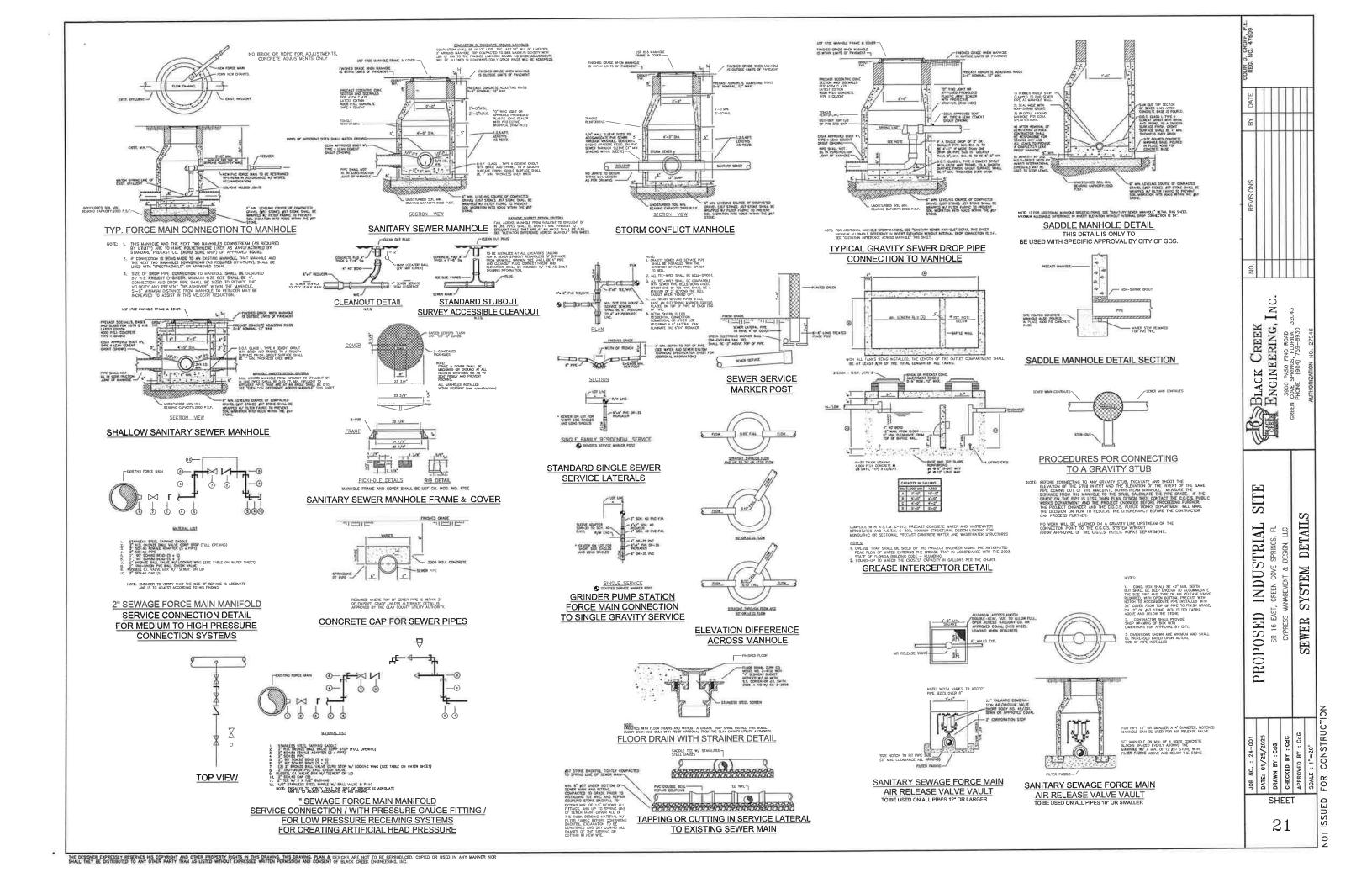
BLACK CREEK

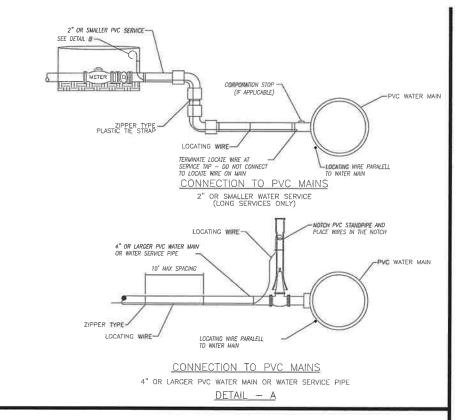
BUGGER ENGINEERING, INC.

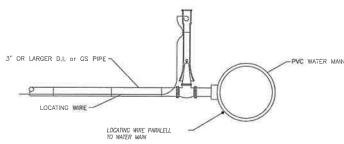
300 PASO FINO RAD

OREEN COME SPRINGS, LOURIDA 32043

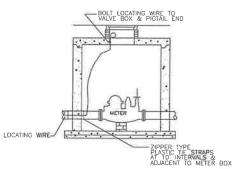
HONE (904) 759-B930 SITE DETAILS INDUSTRIAL SYSTEM PROPOSED WATER SHEET





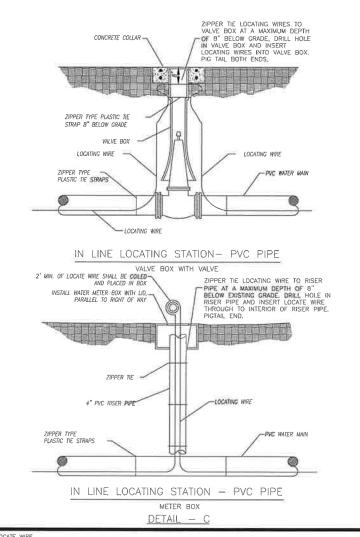


CONNECTION TO PVC MAINS
w/3" OR LARGER D.I. OR GS WATER SERVICE OR WATER MAIN



PRECASI METER BOX & COVER
(3" OR LARGER)

CONNECTION AT METERS BOXES w/ PVC WATER SERVICE DETAIL - B



LOCATE WIRE

LOCATE

LOCATE WIRE

LOCATE

LOCAT

Definitions: Approved Testing Equipment shall include variable frequency controls, digital depth read-out and tone continuity. The following is a list of approved equipment – Dynatel (3M)-2273 Cable/Fault Locator, Metrotech 9900XT, Dich Witch 950 R/7 or CCS pre-approved equal:

Certified Tester — A person or company that has been certified by the Manufacturer of the approved testing equipment as profesient in the use of the equipment has 8 months experience in the use of the equipment including documented profest of post performance.

GCS Approvol: CITY OF GREEN COVE SPRINGS shall have the authority to approve Certified Tester, or deny the approval of Certified Tester to work on Utility's System. GCS shall have the authority to remove any previously Certified Tester from its approved list of Certified Testers as GCS deems necessary.

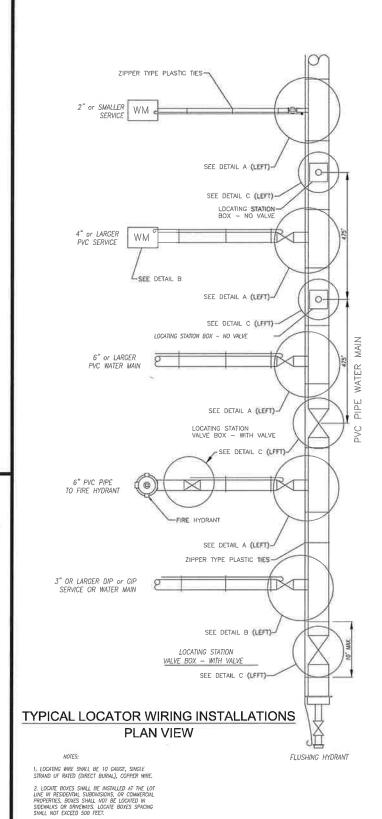
Certified Tester from its approved list of Certified Testers as QUID deems necessary.

LOCATE WIRE INSTALLATION

Contractor shall furnish and install tocate wiring an all water mains, sewer force mains, and reclaimed water mains (both PVC) and ductible iron) and an all gerides elsements greater. Locate wire must be attached to mains and services with duct tape or approved plastic appear lies, (pulled light to keep witer from rotating out of location), at the grade within a valve bas or locating station box, as required, and the property of the station of the property of the property

LOCATE WIRE BOX (NSTALLATION Where utility mains are to be installed beneath sidewalks, valve boxes shall be installed instead of locate wire boxes, The valve box lids shall indicate the type of line (i.e. water, sewer, or reclaimed water). The valve box shall be adjusted so the top of valve box is flush with the finished sidewalk gradue, if for any reason a locate wire box must be offest from the C/TL of pipeline, then the contractor shall have installed an adequate length of wire to avoid splices and the exact location of the locate box including the amount of the offest distance shall be recorded on the As-buills.

AS-BUILT DRAWINGS
See general note No. 1 of standard water and sewer system outline technical specifications for submitting os-builts on locate wire boxes.



J. WHERE IT IS NOT POSSIBLE TO LOCATE THE BOX OUTSIDE OF A PAYED STREET OR PARKING LOT THE LOCATE WIRE SHALL BE PLACED IN A VALVE BOX INSTEAD OF A ROWE BOX. VALVE BOX LID SHALL BE MARKED ACCORDING TO THE TYPE OF PIPE ESP DATE: 01/25/2025

DRAWN BY: CdG

CHECKED BY: CdG

APPROVED BY: CdG

SCALE: 1"=20'

BLACK CREEK

BURGER ENGINEERING, INC.

BOOD PASO FINO ROND

GREEN COVE SPRINGS, FLORIDA, 32043

PHONE (904), 759-8930

SITE

INDUSTRIAL

PROPOSED

DETAILS

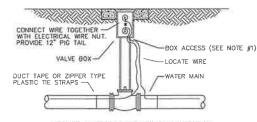
WIRE

TRACER

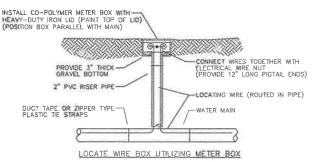
A LOCATE WIRE SHALL BE PLACED ON SERVICES SINGLE WATER SERVICE GANG WATER SERVICES 3 OR 4 SERVICES (SEE NOTE #5) -10' UTILITY EASEMENT -3/4" POLY TUBING 3/4" MIP PACK JOINT COUPLING 3/4" POLY TUBING ULTI-SERVICE "Y" 2" FIP INLET AND 3 3/4" FIP OUTLET) -2" POLY TUBING SINGLE LONG-SIDE WATER SERVICE 2" POLY TUBING MIP PACK JOINT COUPLING SHORT-SIDE SERVICE-SADDLES WITH 24 MIN. SEPARATION (TYP.) WHERE MULTIPLE TAPS ARE 2" POLY TUBING -CORPORATION STOP (TYP. FOR LONG-SIDE) CONSTRUCTED -4" G.V. (MIN) 2' MAX (SEE NOTE #4) WATER MAIN SHORT-SIDE WATER SERVICE 1" POLY TUBING 1" SADDLE W/ CORPORATION STOP METER BOX (TYP) (TYP. FOR SHORT-SIDE) BOX (TYP) L10' UTILITY EASEMENT METER BOX EASEMENT W/ ELECTRIC BOX OR DRAINAGE EASEMENT LOCATION (NOTE #3) SINGLE WATER SERVICE DOUBLE WATER SERVICE

- 1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS, ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1,0' OFF OF THE R/W LINE.
- 2. UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1,0' OFF OF THE R/W LINE, AND 1,0' FOOT INSIDE OF THE PROLONGATION OF QNE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UNLIHES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1,0' FEET), UNLESS APPROVED OTHERWISE BY THE CITY, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATIONS ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OF DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
- 3, IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
- FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 3/4 SERVICES, THE 2 POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES, THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND, ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
- 5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGEGERED AND AT 2 FEET ON CENTRE (MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" PIPE, 4"X1" SADDLES AND 1" CURB STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.
- 6. ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

WATER SERVICE INSTALLATIONS 2" AND SMALLER METER



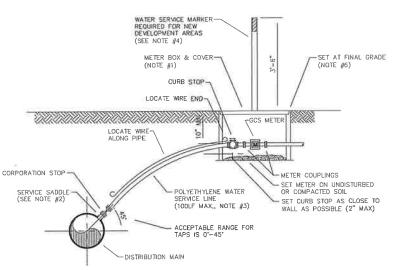
LOCATE WIRE BOX UTILIZING VALVE BOX



NOTES

1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE.

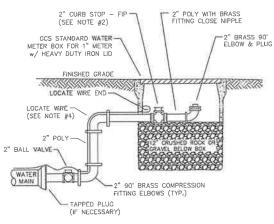
LOCATE WIRE BOX



NOTES

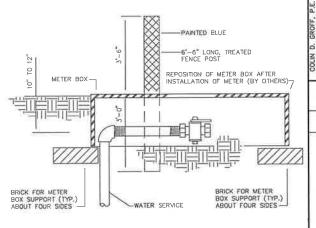
- 1. SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS,
- 2. SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION), FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.
- 3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS, CONSTRUCT POLY LINE WITH 36" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS OTHERWISE APPROVED
- 4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I,E,: IF NO METER IS INSTALLED). IN ADDITION, INSTALL A 6', 6" P.T., FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER BOX., THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON
- $5_{\rm s}$. The contractor shall be responsible for the repair or replacement of the boxes, meters or electronic devices if damaged by the contractor during the construction period,
- 6: METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT. TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX),
- 7. LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

WATER SERVICE DETAIL- 2" AND SMALLER METER



- PIPE SHALL BE POLYETHYLENE, FITTINGS SHALL BE BRASS
- CURB STOP SHALL BE ALL BRONZE, FITTINGS SHALL BE BRASS, OF BE PLACED UNDER CONCRETE OR PAVEMENT.
- PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

FLUSHING VALVE BELOW GRADE

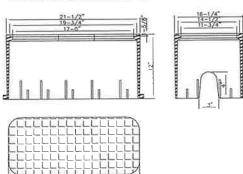


WATER SERVICE MARKER POST

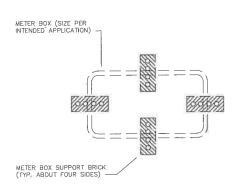
NOTE:

ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6'-6" LONG MARKER POST PAINTED BLUE, ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER TO! TO 12" BELOW FINAL GRADE AND INSTALL 90' BEND, NIPPLE AND LW BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE LINE FROM LAST 90' BEND TO IT HE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED AND LOCATED TO BE INSTALLED ADJACENT TO AND LOCATED AT THE MID SECTION OF THE METER BOX.

NOTE:
MIN. WALL THIKNESS: ,25"
DOUBLE WALL BODY W/STRUCTURAL SUPPORT RIBS
W/MIN. THINCKNESS: ¾6"
1" BOTTOM FLANGE BOX IS INJECTED MOLDED STRUCTURAL FOAM RECYCLED POLYPROPYLENE MATERIAL



METER BOX & SOLID BLUE LID



METER BOX SUPPORT DETAIL

Inc. BLACK CREEK
SUREERING, I
SONG SPRONGS, FLORIGN
STORE CONE SPRONGS, FLORIGN
STORE (904) 759-8930 田 SIDETAIL INDUSTRIAL SERVICE

PROPOSED

SHEET

23

WATER

OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF SEWAGE COLLECTION SYSTEM

- 01. INTENTION. It is the declared and acknowledged intention to secure a new severage system, complete, in occarbonce with the planet, seediffections, and contract decuments. All new second contracts of the seediffections, and contract decuments are seediffections and petitions and petitions and with C.G.C.S. Approved Materials Manual and C.G.C.S. Public Works be postment Delies and Specifications and any other Government Regulatory Agency. All work shall conform to the obove whether or not specifically colled out or noted on the plans.
- apenneumy comes out or notes on the plans.

 2. CREDAL All materials shall be of those listed in the C.G.C.S. Approved Materials Manual. The installation shall be verranted by the Controctor as to materials, workmannish and occurrey of the As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities, Workmannish shall be of good quality; i.e., severs shall be lead true to line and grade, fittings shall be properly involved amonths of the shall be properly involved amonths on the shall be installed at tections and te elevations shown on the plans.

- necessary for the layout and construction of the work or mis contract.

 D4. EARTHWORK, Eorthwork shall include all secondition, fill and backfull (nand-machine), compaction and recogly grading of materials encountered. No unautoble materials clay, muck, or peal removed from join tenders are to be used for backfull. All fill or backfull shall be either sond or sandy clay, free of roots, trash or other doors. All backfull shall be either sond or sandy clay, free of roots, trash or other doors. All backfull claysful or inches above of pipe shall be free of clay or organic material, compacted in fills, the first of which shall be to the saids all all the packfull shall be compacted by either head or machine operation confully to 95% (auticle of paving), RBX (under point) of its appliance moisture content as determined by ASTM D688, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to C.C.S. If required.
- besiding open you'dlike imide or certainty feet in the content of the transition of the content of the content
- D5.1 CAST IRON MANHOLE FRAMES AND COVERS. Cost iron menhole frames and covers shall be as detailed on drawings. Costings shall meet the requirements of cross 65-61-61. Duttle from meeting the requirements of Cost 65-61-61. Duttle from meeting the requirements of ASTM ASSM, Standard Specification for Duttle Iron Costings. In either cost, membel from and cover shall be considered to the cost of the co

- designed to withstand on HS20-44 loading defined in the ASHTO Specifications. Frames and covers shall be machined or ground at tauching surfaces so as to seat firmly and prevent racking.
- 05.2 FLEXIBLE MANHOLE CONNECTOR, All connections between sewer pipe and pre-cast concerts monholes shall be occomplished by a Flexible Connector, "Kor-N-Sea", as monufactured by National Pollution Control Systems, Inc. or approved equal,
- 5.3 FLOW CHANNELS. Flow channels in manhole base shall be formed of D.O.T. Class I, Type II cement grout with brick or rubble and trowel to a smooth surface finish. Grout surface shall be I min, thickness over brick or rubble, While the monholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the shape and sizes of pipe indicated. All inverts shall previde a constant gradient from influent pipe to effect or breathers shall previde a constant gradient from influent pipe to effect or breathers should be fined until memorial council of between and entering breath or breathers should be left and in smealth came of a between the crodus which its fongent to the center lines of adjoining pipelining.
- 06. POLYMET CHURDE PIPE. Polywing Chloride Sener Pipe shall conform to the requirements of ASM 0-303A, SDR 26. The PVC compound conforming to ASM 0-105 and paid to clear the polymer of t
- 07. PIPE BETWEEN MANHOLES. All piping installed between manholes shall be the same material and class. No dissimilar pipe material will be allowed anywhere within a single run of pipe,
- pipe material will be allowed anywhere within a single run of pipe.

 SEMINT SERVICE LIBERALS. Sanitary service betrooks shall be Pelgings Children and the Pelgings Children and Pelgings and Pelgings Children and Pelgings Children and Pelgings and Pe
- 09. FORCE MANS. Force mains shall be C900 DR-18 PVC and conform to the requirements of ASTM D-1794, D-241, D-3139 and F-477. Pige shall be color coded and morted "TORICE UMIN" on all loss two sides and attempt be color coded and morted "TORICE UMIN" on all loss two sides and attempt be solvened. Ductile iron pipe is not to be used without prior approved at the Clay County LEUSy Authority, Fallings shall be C110 gray like one's shall be polylined. Force mains less than 5" shall be SCH 60 PVC. All force umains shall be classified with force wire par C.G.C.S. standard location wire details.
- 09.1 LIFT STATION VALVES, Plug valves shall be Dezurik, Clow or M&H. with full part apening. Check valves shall be M&H, Mueller or American Darling. 1911 part opening, unexx voices show be Mazin, mueller or wirestall barning.

 19.2 FORCE MAIN VALVE, Gate voice, resilient seated, some as especified in Water Distriction System Specifications Section 12 below. Except voice bodies shall be groy iron. Veice box shall have the word "SEWER" cost into the cover. 99.3 FORCE MAIN JOINT RESTRANT, All filtings shall be properly and adequately restrained against lateral movement at all force main teas, creases, where and beads. Restraines shall be Uni-Tilenge Series 1300, 1350, 1390 or approved equal installed per manufacturer's recommendations and C.G.C.S. standard deloties and specifications.

- Og_4 FORCE MAIN PIPE FLUSHING. All force main piping shall be flushed clean with water ulilizing full pipe diameter flushing for all piping up to and including 8" diameter.
- piping up to and including 8° diameter,

 10. INSTALLATION. All sever lines, monholes, and appurlenances shall be constructed to the dimensions and elevations indicated on the deciving. Trenches shall be excepted to a width appraishable; trelve including the second of the construction of the exception shall be to a decible one-fourth pipe diameter above, processed pipe greate; the remaining depth shall be hand excovated and shaped to give full support to the lower one-faunth at each pipe. Each section of pipe shall be inspected for defects pipe to the being levered into the trench. This inside of each bell and the outside of such special shall be threatening to each bell and the outside of such pipe. Each pipe for the pipe for the pipe shall be buricated with the labricant recommended by the pipe monufacture. All sever fines shall be buricated with the labricant recommended by the pipe monufacture. All sever fines shall be in a clean condition upon completion of construction progresses, and shall be in a clean condition upon completion of construction propersions. Per materials shall remain the same on runs between manholes and / or either structures.
- 11. NSPECIONS. Each section of the completed server system shall be inspected for proper dispersent. Inspection shall consist of Temping Term methods for scalefor of the sever system which does not slightly true, concentric originates shall be reinstalled at no additional scalena to the Owner, a stillant log of inspection shall be two text of concentrations of text, potential problems in sever, dop and depth of wolfer, excito bookloans, and other irrequentities in the pipe files. A video tope in VEX format shall be made of the television inspection and submitted to the Engineer and the City of CSC. Scales of composition dehealty less than the contract of the compact of the contract of the cont
- reports from a licensed testing agency shall be imade divelable to City of CCS if requisited,

 11.1. Television inspection will be required on all new growty sewers, constructed. This service shall be provided by the Contractor as a port of this Contract. The newly constructed severs shall be believised in the presence of the ling-pected of the City of CSS. A full report on a the consistent of piece, type, gipth, location of services, length, type, joint and relation to the contract of the
- 11.2 TEST, INFILIRATION: After completion, the sewers or sections thereof, shall be tested and gauged for infiltration. To check the amount of infiltration, the Constructor, at no added compensation over the control price for the sewers, shall furnish, and install and maintain or V-notich sharp crested weir in a wood frame on the main sewers as directed by the Engineer. Maximum allowable infiltration shall be 50 gallons per mile, per inch of dia. of sewer per 24 hour day at any time.
- of sever per 24 hour day of unit miles.

 11.3 TEST, EKFLITRATION: In areas where ground water is not encountered in sower construction, or it is desired to run exflictation tests, the Contractor shall farmish and install oil necessory materials, equipments, shall supply water, etc., and shall run exhibitation tests to determine occeptance of the sevent. The maximum allowable exhibitation shall be 50 gallons per mile per inch of disameter of sever per 24 hour day at any time based on the foot minimum kiternal head.

OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

- 01. INTENTION. It is the declared and ocknowledged intention to eccure new water distribution system, complete, in occordance with the plans and specifications, and conforct documents. All new work shall be in accordance with C.C.S.: Specifications and Databis and Approved Materials Manual and C.C.S.: Public Nerva Separtiment Databis and Specifications and any other Covernment Regulatory Agency. All wars shall earlier to the obove whether or not specificatly called and or noted on the plans.
- to appear or day approach of carthock prior to carthock property of the proper
- 22. GENERAL. All materiols shall be of those listed in the C.G.C.S. roved Moleriols Manual. Materials shall be warranted by the Controction Conderials, workmanship and accuracy of As-Duil dewings for a cold of lev years from the date of completion of the work or beneficial of the facebles, Westmanship shall be of good quelity. Its mains it be laid in a uniform eigenment, fittings shall be properly excelled, in the property excelled and bookflet, line hydrant shall be accepted to the control of the control of the work of the control of th
- 03. SURVEYS: The Utility Contractor shall provide all surveys necessary for the larguit and construction of the work of his contract.
- 04. EARTHWORK, Earthwork shall include all excountion, fill and backfill (nond/machine), compaction and round; specing of materials encountered. No unsuitable materials clay, muck, or pest, removed from pipe trenches ret to be used for backfill. All fill or backfill shall be shall be shall exceed the sand of the shall. All fill or backfill shall be shall contained and to a height sendy-flowing inches above of tipe shall be free of city or experie material, compacted by either hand at machine specialism contains a shall be compacted by either shall or machine specials or machine shall be compacted by either shall be shall be shall be compacted by either shall be compacted.
- 05. JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all water main tees, crasses, volves bands and fire hydronis. Restrainers shall be Unit—Rings Series 1300, 1350, 1390 or opproved equal installed per monufacturer's recommendations and Co.C.S. Datalos and Specifications.
- C.G.C.S. Defails and Specifications.

 5. DUCTILE IRON PIEE. Ductile iron gips shall conform to ANSI
 Specification A21.50 (ANNA C150) Islast, "Thickness Dasign of Ductile iron
 Pipe, Toble S.S.S. Byding condition Type 2, intermologically procure or 250
 Pipe, Toble S.S.S. Byding condition Type 2, intermologically procure or 250
 Pipe, Toble S.S.S. Byding condition Type 2, intermologically procure or 250
 Pipe, Toble S.S.S. Byding condition Type 2, intermological procure or 250
 Pipe 3, 100
 Pipe 3, 1
- DUCTILE IRON FITTINGS shall be C153 cement lined and suitable for and class of pipe to which connected, Gaskels shall be suitable for estic water service. Minimum working pressure shall be 150 P.S.I.
- 08. PDLYWYL CHLORDE PPE. Polywinyl chloride pipe for water mains 4 Tm. disenseter and larger, shell be P.V.C. C900, RP-18, cenforming to ASTM D-1784, 0-2744, 0-3139 and f-477, sets, and shall be on the seel of the Nctionol Sonitation Foundation, Pipe shall be calor coded and morked on at least 2 sides with he worth WMLRF and a viewy 12 "singe the burnel of the pipe. Couplings shall be rubber gaseted, push—on type conferming to ASTM D-2122, DR-18 shall be used for fire mains."

- STEEL CASING PIPE. Steel cosing pipe shall be of size indicated on the Drawings and shall conform to ASTM A139, with a minimum yield strength of 35,000 p.s.;
- 10. POLYETHYLENE PIPE shall be SDR 9, AWWA C901, ASTM D2737, PE 3408, colored blue, NSF Seal, with Type 316 stainle steel inserts. Fittings shall be suitable for type of installation required. All piping smaller than 4" shall be Polyethylene.
- In GATE WALKES AND BOXES. Gots volves shall be non-rising stem type and shall be authority of the surface of the control of th
- 12. Which Michael Coulds. Maler Davids for insigning hydromia and 5.74 major.

 In the Physics, inc., and DPM3GC 72-37, Maler bower, and 5.74 major.

 In the DPM Physics, and the PM3GC 72-37, Maler bower, and 5.74 major.

 In the PM Physics, and the PM Physics, inc., model DPM1730C-12-37, Developer shall be responsible for "hastellation on mater bower on all water services as port of the water main installation. All curst steps shall be adjusted to the proper elevation shall be accessible for the installation of the water main. The confrictor has the person of the Coulds o
- 13. CURB STOPS. Curb stops shall be cost bronze, invested key stop, roundway, with check, lock wing type, for locking in the closed position. Curb stops shall be Ford Ball Volve or Nueller.
- 15, FIRE HYDRANTS. Fire hydronts shall be traffic type, 150 pound working pressure, AWWA Standard CSD2, latest revisions, with two 2 1/2" nazzles, one 4 1/2" nazzles and 5 1/4" noin wethe. Fire hydront shall be be compression type with breakable coupling and bolts. Pipe connection shall be mechanical joint, American Flow Control, AFC 8-84-8, pointed red w/white bennets and with 1 1/2" penta nuts, opening left.
- 15. INSTALATION. The minimum cover over los of poloble water main shall be 36' minimum. All water lines and appurtances shall be able to the state of the state o
- TESTS. After the pipe is loid, the joints completed, and the trench backfilled, the newly loid pipe and appurtenances shall be subjected to a Hydrostatic and Leekage test of 150 pounds per square inch for a

- period of at least two hours. During this period, oil joints sholl be inspected to determine water tightness of the system. Any testic detected should be corrected. Tests shall be in accordance with the total control of the system of the sy
- advergipments of young ne asset require the controlled in regions the folial method and relate the water man.

 18. STERIZATION. After completion of construction and testing, the water system shall be stelled with chipsine in occardance with AWMA Standard C653 lottest, and State of Florida Department of Environmental Protection requirements before occardance for demestic operation. The amount of shallon opposite shall be sufficient to provide a desage of 50 parts per million or man. The shallon has been accordant to the sufficient to provide a desage of 50 parts per million or man. The shallon has been accordant to the sufficient of controlled sufficient of the sufficient of completion of conflicted of Completion, in only project where the bacteriological charance or the sufficient of Completion, in only project where the bacteriological charance or completion of as a built diversing sond Engineer / C.C.C.S. completion of Completion, in only project where the bacteriological charance or completion of as a built diversings and Engineer / C.C.C.S. completion of Completion of Completion, in only project where the bacteriological charance or complete them 30 doors and to the time of submitted to Conflicted and Completion for full sufficient of Completion of the sufficient of Completion of the sufficient of Completion of Completion of the sufficient of Completion of Completion of C
- BACTERIOLOGICAL SAMPLING, Contractor shall assure the project construction is completely finished prior to any bacteriological sampling and testing.

GENERAL NOTES

sever facilities denoted to the utility should be removed to the Utility by applicant. Prior to acceptance of any extension to the Utility's system that is completed by a licensed underground utility's asystem that is completed by a licensed underground utility's contractor, the Utility will delibe the utility's asystem that is completed by a licensed underground utility's contractor, the Utility will delibe the utility to resolve for its permanent records, of field sevil deliberation of the properties of the major, the confractor's job superintensent shall record on his field set of deriving as many instricted. All membrlas, proving severa, force major, before, volves, and record on his field set of deriving as many instricted. All membrlas, proving severa, force major, before, volves, the instrict many both) or eviciting parameters utility structures are acceptable (i.e. manhelus, celch bosins, the system of the property this passes may be used for reference. Eventions of membrlas and center of cover shall be shown to the nearest hundredth of a foot. Size, type, closs and slope of saver major shall be shown (i.e., 8° PPC, 2018-35). The top develotion of continued to the continued of the property of the properties of the continued to the continued of the properties of the continued to the continued of the properties of the continued to the continued of the properties of the continued to the continued of the continued to the continued to the continued of the continued to the co

- Each page of the dis-built drawings shall been the name, date and original signature of the givened contractor responsible for the Work and the name, date, original signature and seal of the registered from surveyor or registering professional engineer who provided the national and vertical dimensions and elevations on the as-built drawing, a. The signatures shall certify that the dis-built drawings do, in fact, reflect the true dis-built conditions as located under the direct supervision of the registered surveyor and/or professional engineer. The dis-built shall be at the contractor's expense, A copy of the AutoCADA ASSIRIL DATA SHALL BE FURNISHED for COMPACT (DISK (CD) PULS (2) SCHO FULL STE PRINTED SET PLUS (1) WILAR SET by either the design encheer or the applicant's confractor.
- 2. CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD. Developer shall warronty Utility oppoints defects in material and workmanning for the portion of the ansite system to be owned by the UPINY. Developer shall secure from its Contractor of written and only system arronty that the system installed will be and remain from from a car-built drawings in accordance with the URINY opported plans and specifications for a period of two years from the date of the system acceptance by the URINY and immediately assign the same and the right to enforce the same to URINY on or before the date of the System acceptance of the system occeptance of the URINY on the contraction of the system on the proper to enforce the same to URINY on or before the date of the System for ownership and maintenance.
- CLEAN-UP. All surplus materials of construction shall be removed from the site and disposed
 of by the Contractor as port of his contract with the owner.
- 4. RESTORATION, New Sonitory Sewer and Water Main Construction in earther areas shall be seeded and mulched in occordance with Section 570 of Standard Specifications of the Florida Dept. of Transportation (letter edition). In locations where existing grossed (sodded) ereas one disturbed, sad shall be replaced to precentruction condition and to limits of construction or where directed by the engineer.

- the owner or developer.

 6. PHPE BEDDING. In the event unsuitable or unstable bedding material is encountered at or belon the Benis of the execution required for installation, such material shall be removed and replaced with suitable compacted backfill material specified by the design engineer and approved by the CLGCS or as to provide a stable trench bedding surface suitable for proper specimization.

 6-A. Pipe Bedding (Rock Bedding Materia) Rack material used for pipe bedding shall be \$57 store or crusted concrete (crush-recter) in a \$57 store. Rock bedding material shall be completely wrapped in a heavy filter father material, overlapped a minimum of one foot, rock bedding shall be installed to the correct group on an occupation of the backthese by inschanical tamping squipment or by compressing the rock using the bottom of the backthese backet. The controlled shall be compacted and be approved by CLGCS, large-potch. The controlled shall be chaptered by design engineer and CLGCS, prior to use of such rock bedding material.
- material.

 7. DEWATERNO, The contractor shall at all time during construction provide simple means and equipment with which to promptly remove and dispose at all water entering the trench and structure excausions and shall keep sold excovations occerately by until the spling and / or structures to be built therein are completed. All water pumped or dramad from the work error shall be disposed of in a manner as to not alonged sever, water, electrical or any other pumpe, structures or property. No byte shall be laid in water and no enter shall be allocated for except as many be approved in writing by the CLCLS.
- 8. HYDROSIANC TESTING. After all pressure pipes (water moins, services, and force moins) are loid, the jurist completed, and the trench backfilled, the newly loid pipe and apparenances shall be subjected to a hydrostatic lett of 100 P.5%. for o pend of all letted lan hours. The engineer and the C.G.C.S. Public Works must be notified 48 hours before a test is to be performed. Test shall be as set forth in ARRA standard COO, Any lests defended shall be corrected and the bection at propries retained. The last boar test period shall begin when all pinish hours been determined to be writer and the standard cool of the set of
- 10. DENSITY TESTING. Implace density tests are required at intervals not to exceed 150° along pipelines for every other filt. A minimum of one test between manholes is required for every other filt regardless of the distance between shallow sover manholes.
- 12. CATE VALVES AND BOXES, Gote valves shall have a 2" operating nut and open left, Gate valves shall have joints suitable for the type main on which installed. Valves 2" and 3" shall be from body, bronze fitted valves 4" ond Striger shall be from body, bronze fitted with resilient seed. The word "WATER" on water bases and "SEMER" on force main boxes shall be cost in the covers.
- research seet. The word invited water shall seek seeks the section of the covers, coal in the covers, and consists of the covers, and covers and covers of the covers of t

- 14. NEW CONNECTION TO EXISTING MAIN. New connection to existing main in service shall be occurringlished by the "set too" method withing full circle stankers steel topping sieves and mechanical joint topping valve. Topping steep the form of 200 PS, an improved, when the pressure confirmation of 100 PS, an improved within the form of 200 PS, and topping sievers mechanical joint one end and standard floringel joint on other end. Valve shall conform to Section 12. of these specifications.

 15. aCQSTE SAETY, While on the job site, the contraster shall ot all times observe all Feder State and topping softly mise, requisitions on all lows. This includes, but not limited to, confined sp and extendation protection systems as per O.S.H.A. standards.

GENERAL NOTES

- 16. CLOSE DUT / COMPLETION. Minimum items required for Close Dut / Completion for submittol to the City of Green Cove Springs will include:
 (a) Construction Worranty from Developer in the form of a Bond, Letter of Credit or Cashier's Check for a two-year period.
 (b) Werency Cartificial fair a two-year warranty from the conflocter to the Developer and ensignment of some to the City of Green Cover Springs (CGLS.).
 (c) Developer's Allidovic cartifying there is no quantum grid debt against utility essets to be developed to CGLS.).

 - be deeded to C.G.C.S. (a.) Value of Acceptance Report showing value of assets to be deeded to the C.G.C.S. (a.) Bill at Sale to C.G.C.S.

 - Bocterlalogical Test(s)
 Pressure Test(s)
 Television Reports and Tapes
 -) Density Reports) PROPER Final As—Buill Drawings and disks
 - 17. C.C.C.S. Shop Drewing and Submittel Process. A signed acknowledgment by the Contractor and the Material Supplier, on the "Shop Drewings and C.D.C.S.'s Approved Materials List Form", that all motorials will be in accordance with C.G.S.S.'s Specifications, C.C.S.'s Details and C.C.S.'s Approved Materials Mound. In the only submitted C.D.C.S. all require for each Rem of materials with the following exception: any othernole materials required by the Explorer: only materials and taled in the C.D.C.S. Materials Mound.; and materials associated with pumping attained and point installations. Those exceptions shall have an individual shap drawing submitted for C.D.C.S.'s review and oppreval prior for any installation of and materials.
 - This is C.G.C.S.'s procedure and it does not proclude the design engineer from requiring additional submittels and shop drowings as he doesno nocessary for the project.
- 18. PUMP STATIONS (TEMPORARY OR PERMANEIT). All pump stations and be constructed in occordance with C.G.C.S. standards, rules and regulations and be approved by C.G.C.S. All wards and replexible shall meet the requirements of C.G.C.S. for the construction of the construction site on noted on the pions), including goles and all other items required to make a completely chanced installation. The entire pump station site on shall be considered or the pions of the pump station and (noted into the pump station site on noted on the pions), including goles and all other items required to make a completely forced installation. The entire pump station site within the fenced area of the covered with #57 alone, 6 inch thick minimum, placed over 8 mill viaqueen.
- 19. Information shown on the Drowings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. The Contractor shall be responsible for requesting underground utility locates and shall assist the utility componies, by every means passible to abtermine said locations and the locations of recent additions of the systems not shann. Extreme coulders shall be extreated to eliminate only positive and or or or other properties. The locations of all overhead utilities shall also be refined by the Contractor's activities. The locations of all overhead utilities shall also be verified by the Contractor. The English electrolish which poles will need shoring during excerving the Contractor's ability because the provide such sharing one support as required.
- 20. C.C.C.S. details and specifications (latest evoluble copy) shall be included in all plans submitted for work within the C.G.C.S. utility system. No person shall modify, change, amit, replace only portion of those details and specifications without the express written contant of C.G.C.S. in any instance where the design engineer has included his written specifications or details in the plans then the more stringer of the two shall govern.

- 22. Under no circumstance shall any trees be planted within a C.G.C.S. utility eosement without;
 a.) C.G.C.S. being notified prior to the planting of trees and plying approval.
 b.) C.G.C.S. being notified prior to the planting of trees and plying approval.
 c.) C.C.C.S. inspecting the installation of not barrier material (required at all trees which are closer than 10° to any C.G.C.S. withit like) as shown in C.G.C.S. opproved material manual and C.G.C.S. readway cross section details, whether or not shown on the plans.
- 23. At all Jack & Bore locations a C.C.C.S. inspector shall inspect the cosing spacers to verify they are the correct size and have been installed correctly on the pipe prior to the pipe being installed into the pipe cosing. The pipe cosing shall be clean and free of all dirt, and shall be cleaned with a Vac-Con if necessary. A C.C.C.S. inspector shall be present at all time sturing this work.

FINAL INSPECTION PROCEDURES

- PRIOR TO FINAL MSPECTION, THE CONTRACTOR shell PROVIDE THE FOLLOWING:

 1. The server line T.W. report, and tope.

 2. The pressure test and boater/displacel clearance analysis report.

 3. The engineer of record certification to DLEP, This can be done with completed as-builts sheening of least the following:

 a) Location of volves, mains, services, manholes and locate wire boxes.

 b) Elevation of sewer fines in the monthlesi, and slub-outs.

- so, severion or sever lines in the monhole, and slub-outs,
 All services and volves to be ploinly morted with a treated fence
 sat, and electronic locate morter when needed.
 Purps statem state-tup report with drop down date for each pump and with both
 pumps in operation. All electrical compenents to be completely installed and in pro
 working condition.

- PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED:

 1. All manifolier rings and covers have to be adjusted to finish grade.

 1. Water services must be lowered and meter bases installed, valve bases must be set en ell gate valves.

 3. 45-bailt drawings shall have been updated to accommodate the C.D.C.S. comments and the final streaming shall have been updated to accommodate the C.D.C.S. comments and the final streaming shall have been updated to accommodate the C.D.C.S. comments and the final streaming shall have been updated to accommodate the C.D.C.S. comments and the final streaming shall have been updated to accommodate the C.D.C.S. comments and the final streaming shall have been updated to accommodate the C.D.C.S. comments and the S.A.B. Societies with bases, severy, well and the comment of t
- PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED:
- PRIOR TO FINAL ACCEPTANCE FOR COMMERSHIP, THE FOLLOWING WORS DE COMMERCED.

 A preliminary inspection must be economicated by the underground utility contractor and held a minimum of filteen (15) working days prior to the final inspection/start-up. The relation of the compare the approved design drawings to the actual site installation, noting any deficiencies.
- Installation, noting any deficiencies.

 2. The following must be represented at the preliminary and final inspection:

 a) the C.C.C.S.'s inspection and distribution and collection departments

 b) the project's developer and/or general contractor

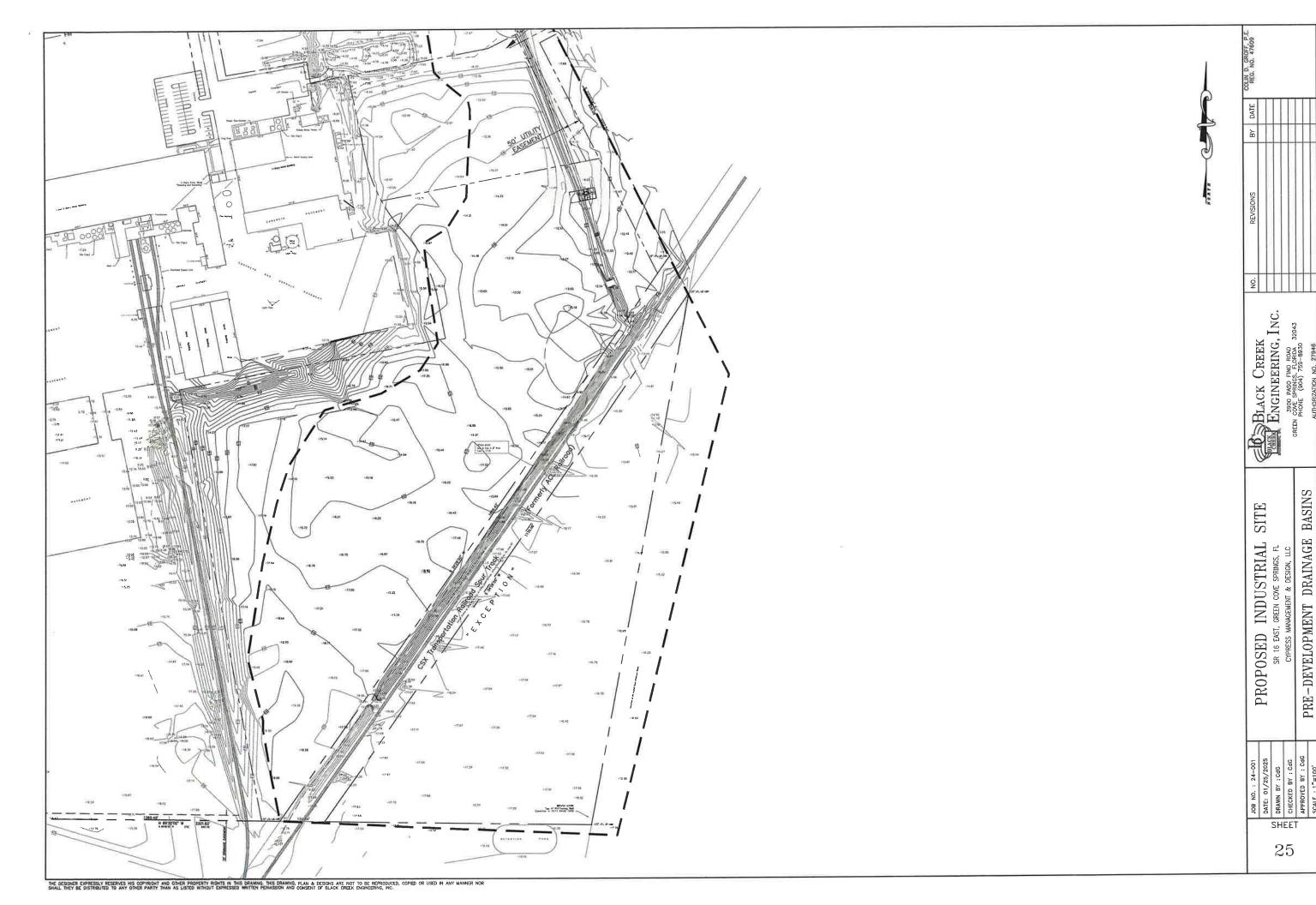
 c.) The underground utility conflictor

 d.) All subcontractors accipited with the lift station (electrical, pump manufacturer, control penal manufacturer, etc.)

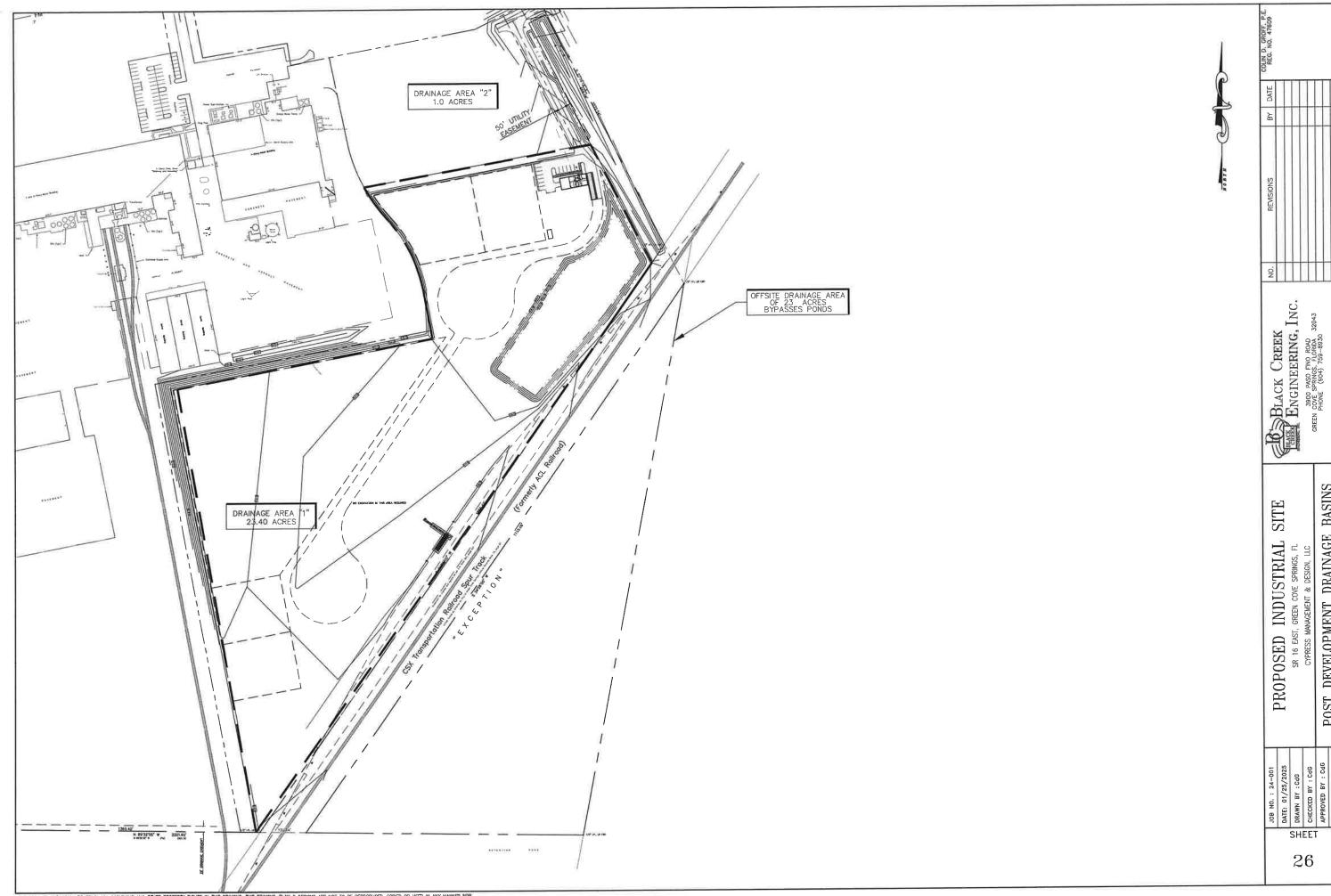
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DRAWN BY: Cdf
CHECKED BY: C
APPROVED BY: C
SCALE: 1"=20' SHEET 24



NOT ISSUED FOR CONSTRUCTION



POST DEVELOPMENT DRAINAGE BASINS