

GENERAL CONSTRUCTION NOTES

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS.
- 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.
- 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.
- 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.
- 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.
- ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) UNITED STATES COAST AND GEODETIC SURVEY (U.S.C. & G.S.)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT.
- 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.
- "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 THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION, 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 CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 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.
- CONTRACTOR 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.
- ALL DEBRIS RESULTING FROM ALL SITE WORK ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR OWNER.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED BY AND COORDINATED WITH CITY FIRE MARSHAL & STATE FORESTRY SERVICE.
- 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 PREPARATION OF THE ROADWAY SUB-BASE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE ON PLANS.
- THIS PROPERTY IS SITUATED IN FLOOD ZONE: X

GENERAL UTILITY CONTRACTOR NOTES

- 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 COMMENCING ANY CONSTRUCTION. IF THE 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.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER FOR REVIEW AND APPROVAL, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE, FITTINGS, APPURTENANCES OR STRUCTURES.
- UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- ALL WATER AND SEWER CONSTRUCTION WITHIN THE COUNTY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
- 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, MINIMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED.
- RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH UTILITY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
- UNLESS OTHERWISE NOTED, ALL WATER MAIN 2" OR SMALLER SHALL BE SDR 9 POLY TUBING AND N.F.S.P.W. RATED AND SEWER FORCEMAINS SCHEDULE 80 PVC.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS TO COMPLETE THE CONSTRUCTION.

GENERAL PAVING AND DRAINAGE NOTES

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

GENERAL EROSION CONTROL NOTES:

- THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT 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 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.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE FDEP SPECIFICATIONS.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- 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.
- 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 IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS, IF REQUIRED.
- DURING CONSTRUCTION, ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE PREVENTION OF DOWNSTREAM/TURBIDITY/SILTATION THROUGH THE USE OF HAY BALES, SCREENS, SILTATION BASINS, CHEMICAL FLOCCULATION 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.

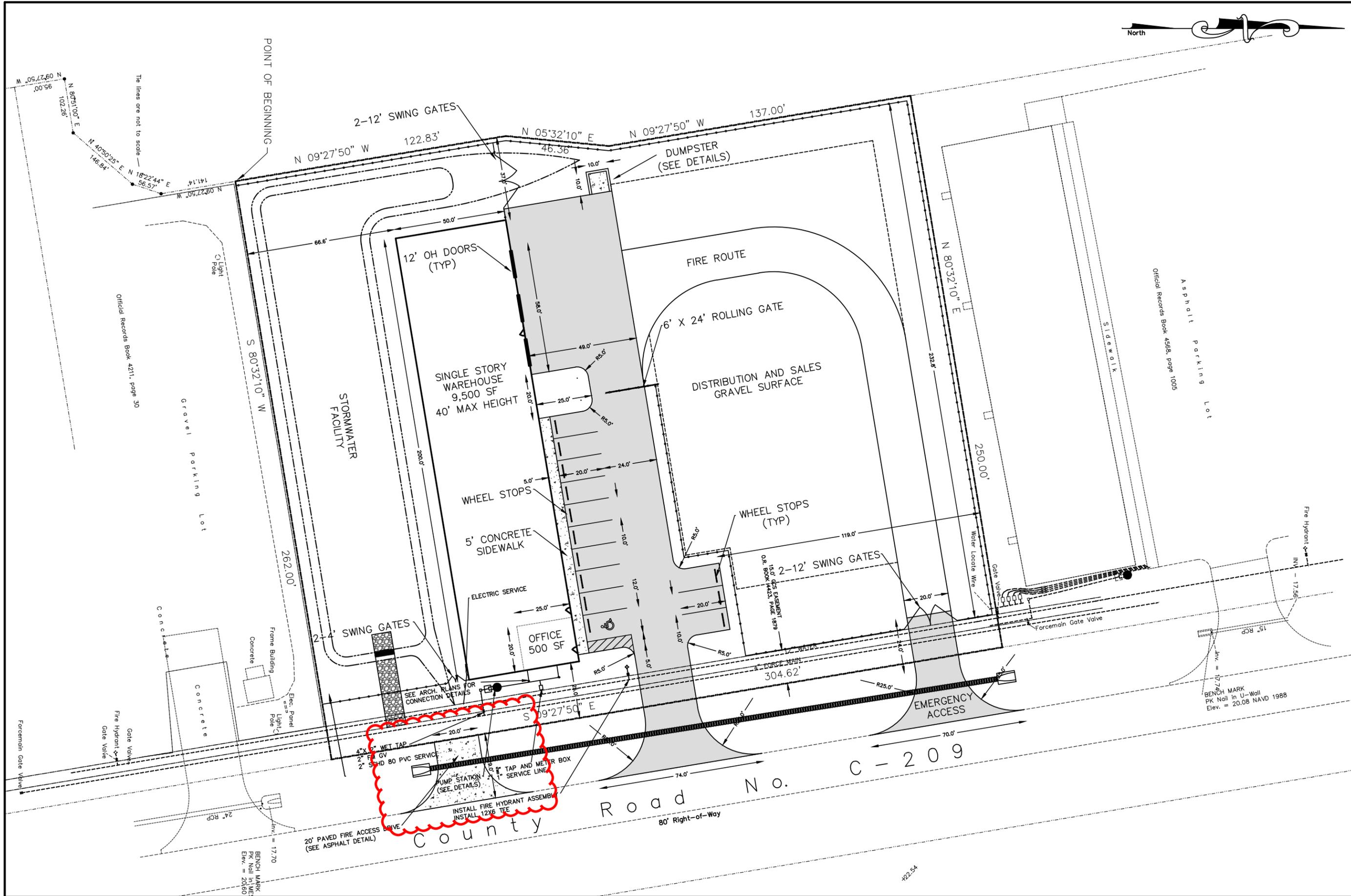
GENERAL AS-BUILT REQUIREMENTS

- 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 REQUIREMENTS:
- AS-BUILTS SHALL BE SUBMITTED ON THE APPROVED GRADING/DRAINAGE PLAN PROVIDED BY THE ENGINEER OF RECORD FOR THE PROJECT.
- ALL DRAINAGE STRUCTURES OUTSIDE OF THE ROADWAY SHALL BE LOCATED FROM BACK OF CURB AND THE PROPERTY LINE ADJACENT TO THE STRUCTURE.
- 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 EXISTING CONDITIONS AND TOP OF BANK.
- ALL SWALES SHALL BE LOCATED AND CROSS-SECTIONED EVERY 25'. ELEVATIONS ARE TO BE BOTH TOP OF SLOPE AND CENTERLINE.
- 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.
- ALL CUL-DE-SAC CURBING SHALL BE SURVEYED EVERY 25' AROUND STARTING AT THE BACK OF THE CUL-DE-SAC.
- A BENCHMARK SHALL BE LOCATED ON EACH SHEET
- 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 SHALL BE SIGNED BACK IN.
- SUBMIT ONE DIGITAL AS-BUILT AS A DGN OR DXF FILE (STANDARD DIGITAL EXCHANGE FORMAT AUTOCAD ETC.) IN CD ORDVD.
- 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 COORDINATE SYSTEM: NAD_1983_STATEPLANE_FLORIDA_EAST_FIPS_0901_FEET PROJECTION: TRANSVERSE_MERCATOR FALSE_BASTING: 656166.66666667 FALSE_NORTHING: 0.00000000 CENTRAL_MERIDIAN: -81.00000000 SCALE_FACTOR: 0.99994118 LATITUDE_OF_ORIGIN: 24.33333333 LINEAR UNIT: FOOT_US (0.304801) GEOGRAPHIC COORDINATE SYSTEM: GCS NORTH_AMERICAN_1983 DATUM: D_NORTH_AMERICAN_1983 PRIME MERIDIAN: 0 STATE PLANE COORDINATES FOR AT LEAST TWO BOUNDARY CORNERS OF PROPOSED AS-BUILT DRAWING MUST BE SHOWN. THESE COORDINATES SHALL BE DERIVED FROM FIELD MEASUREMENTS IN CONFORMITY WITH F.S.CHAPTER 472 AND F.A.C. RULE 61G17-6.0051(2) WHICH REFERENCES 61G17-6.003(1). FURTHER SUB-SECTIONS IN 61G17-6.003 WHICH APPLY ARE (L)(A),(B) AND (E). SURVEY ACCURATE COORDINATE DATA IS REQUIRED PREMISED UPON THE INTENDED USE (IE RESOURCE GRADE DATA IS NOT ACCEPTABLE) THE INTENDED USE OF THESE COORDINATES IS FOR GIS BASE MAPPING PURPOSES.
- ADJOINING/EXISTING STREETS MUST BE CLEARLY SHOWN AND LABELED.
- NO EXTERNAL REFERENCE FILES ATTACHED
- RECORDED SUBDIVISION NAME AS PER PLAT SHALL BE LABELED ON THE AS-BUILT.
- ALL STORM SEWERS, PONDS AND OUTFALL AND STRUCTURES ARE TO BE CLEARLY LABELED.
- THE ENGINEER WILL BE RESPONSIBLE FOR ANY ROTATION AND/OR TRANSLATION, BASE ON THE COORDINATE DATA SUBMITTED.

GENERAL FIRE DEPARTMENT REQUIREMENTS

- CALL FIRE PREVENTION@ (904) 284-7703 AT LEAST FORTY EIGHT HOURS IN ADVANCE FOR ALL INSPECTIONS
- THIS SITE WILL BE SERVED BY A TANKER TRUCK AND THE STRUCTURE WILL BE CONSTRUCTED WITH THE APPROPRIATE ALARMS PER THE NFPA CODE.
- FIRE PROTECTION LINE SHALL BE INSTALL WITH A LICENSE FIRE PROTECTION CONTRACTOR.
- IF REQUIRED, FIRE DEPARTMENT CONNECTION FOR FIRE SPRINKLER SYSTEM SHALL NOT BE LOCATED ON THE BUILDING AND SHALL BE 5' STORZ CONNECTION.
- IF REQUIRED, THE BACK FLOW PREVENTER SHALL BE PROTECTED FROM FREEZING WEATHER.
- IF REQUIRED, 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.

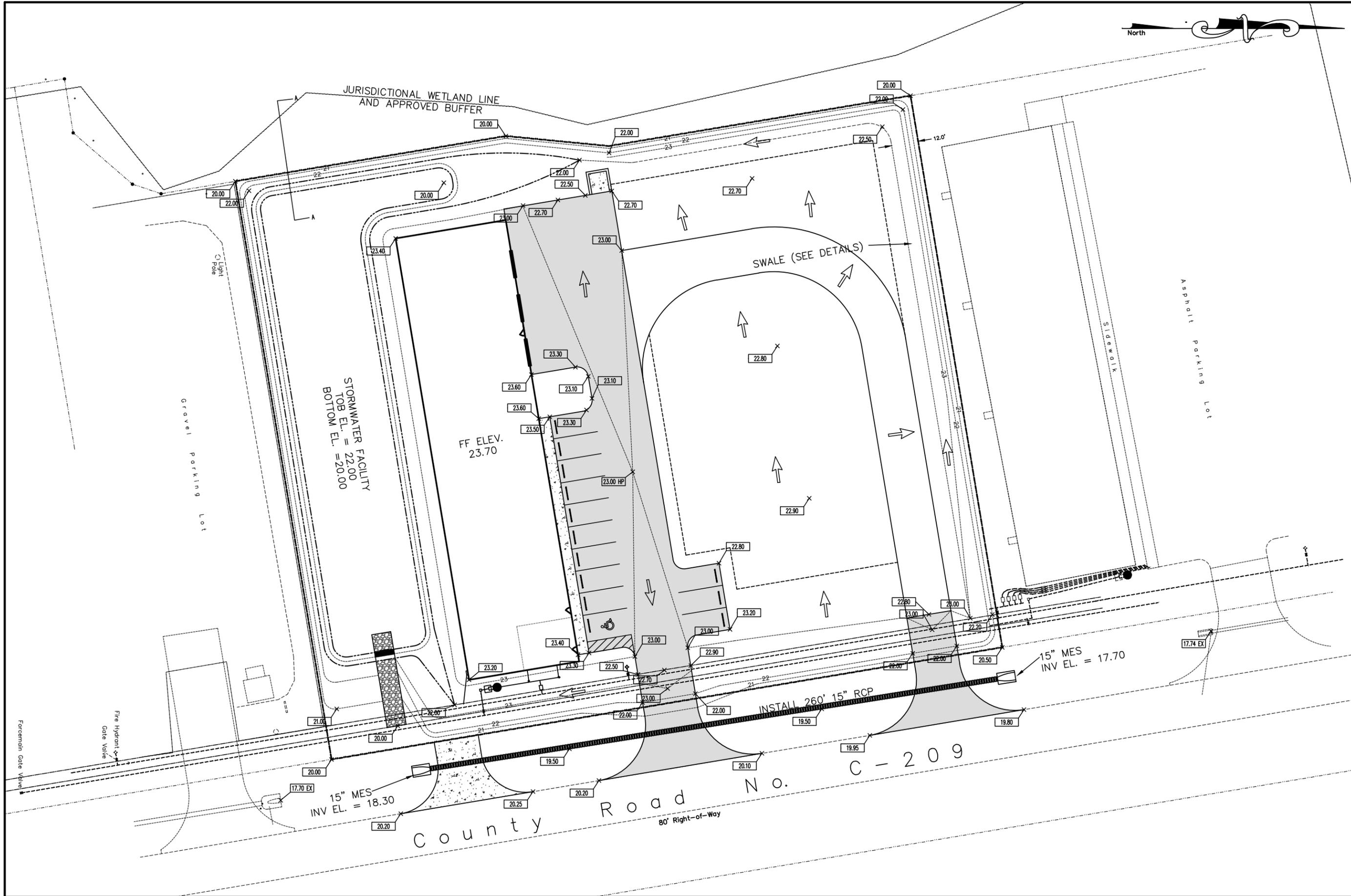
COLIN D. GROFF, P.E. REG. NO. 47609	
DATE	
BY	
REVISIONS	
NO.	
 Black Creek Engineering, Inc. 3600 PASE FINO ROAD GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946	
CR 209 WAREHOUSES CITY OF GREEN COVE SPRINGS RWLL, LLC	
GENERAL NOTES	
JOB NO. : 25-002	DATE: 3/20/2025
DRAWN BY : CdG	CHECKED BY : CdG
APPROVED BY : CdG	SCALE : NTS
SHEET	
2	



COLIN D. GROFF, P.E. REG. NO. 47609	
DATE	07/16/25
BY	CdG
REVISIONS	
NO.	1
REVISED PER	CITY COMMENTS
BLACK CREEK ENGINEERING, Inc. 3900 PASO FINO ROAD GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946	
CR 209 WAREHOUSES CITY OF GREEN COVE SPRINGS ROW, LLC	
GEOMETRIC PLAN	
JOB NO. : 25-002	DATE: 3/20/2025
DRAWN BY : CdG	CHECKED BY : CdG
APPROVED BY : CdG	SCALE : 1"=40'
SHEET	
4	

THE DESIGNER EXPRESSLY RESERVES HIS COPYRIGHT AND OTHER PROPERTY RIGHTS IN THIS DRAWING. THIS DRAWING, PLAN & DESIGNS ARE NOT TO BE REPRODUCED, COPIED OR USED IN ANY MANNER NOR SHALL THEY BE DISTRIBUTED TO ANY OTHER PARTY THAN AS LISTED WITHOUT EXPRESSED WRITTEN PERMISSION AND CONSENT OF BLACK CREEK ENGINEERING, INC.

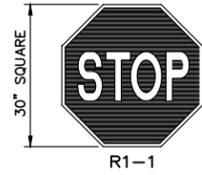
NOT ISSUED FOR CONSTRUCTION



COLIN D. GROFF, P.E. REG. NO. 47609	
DATE	11/18/25
BY	CdG
REVISIONS	
NO.	1
REVISED PROPOSED SITE ELEVATIONS	
NO.	2
REVISED PER CITY COMMENTS	
BLACK CREEK ENGINEERING, INC. 3900 PASO FINO ROAD GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946	
CR 209 WAREHOUSES CITY OF GREEN COVE SPRINGS ROWW, LLC	
PAVING AND DRAINAGE PLAN	
JOB NO. : 25-002	DATE: 3/20/2025
DRAWN BY : CdG	CHECKED BY : CdG
APPROVED BY : CdG	SCALE : 1"=40'
SHEET	
5	

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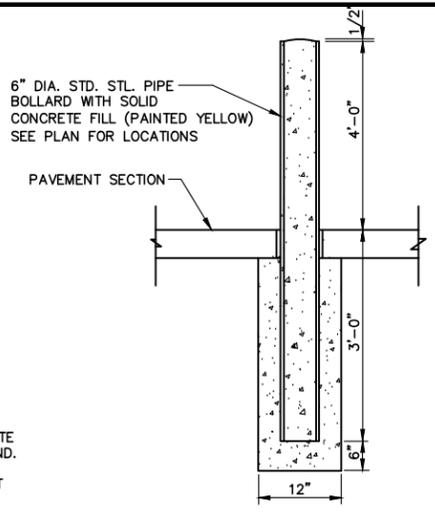
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NOTE:
THE STOP SIGN SHALL BE OCTAGON WITH WHITE MESSAGE AND BORDER ON A RED BACKGROUND.
THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.

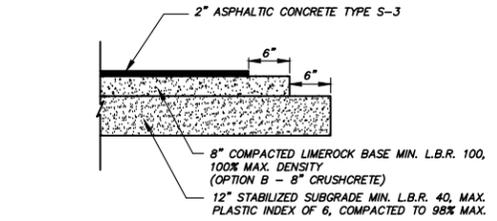
STOP SIGN DETAIL

NOT TO SCALE



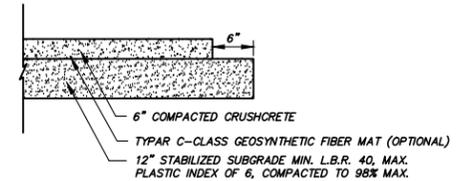
BOLLARD DETAIL

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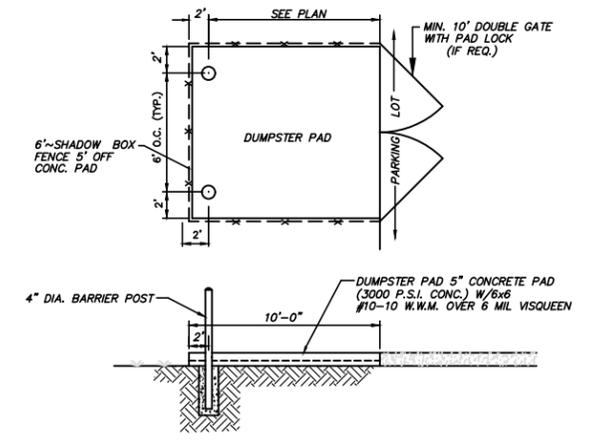
ASPHALT PAVEMENT DETAILS

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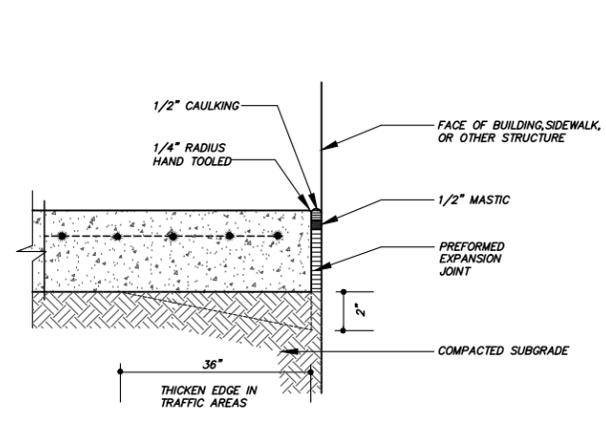
GRAVEL DETAILS

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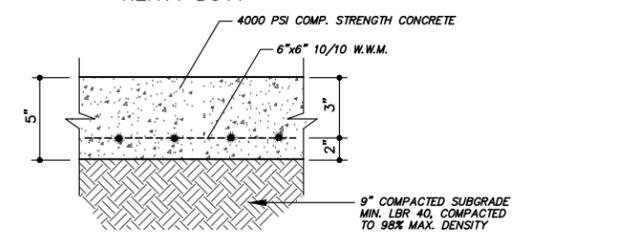
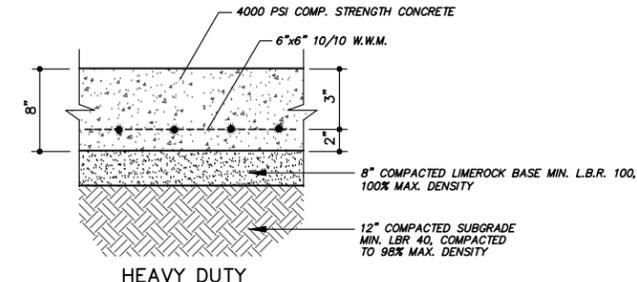


DUMPSTER PAD DETAIL

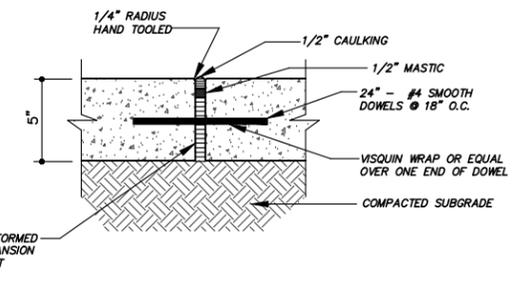
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ISOLATION JOINT DETAIL

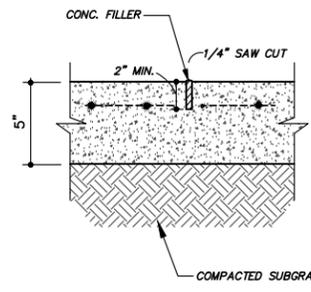


STANDARD PAVEMENT SECTIONS



EXPANSION JOINT DETAIL

EXPANSION JOINTS AT 25' O.C. (MAX.)

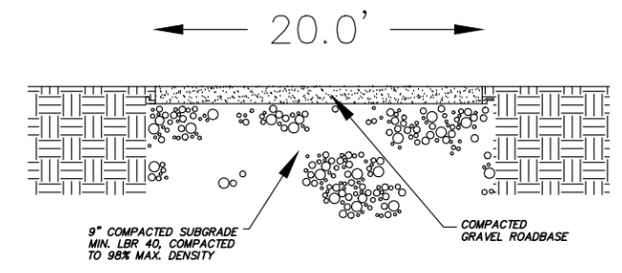


SAWCUT JOINT DETAIL

SAWCUT JOINTS AT 10' O.C. (MAX.)

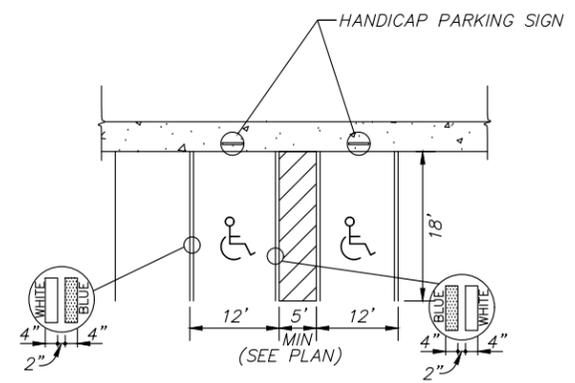
ALTERNATE CONCRETE PAVEMENT DETAILS

NOT TO SCALE



FIRE LANE 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

NOT TO SCALE

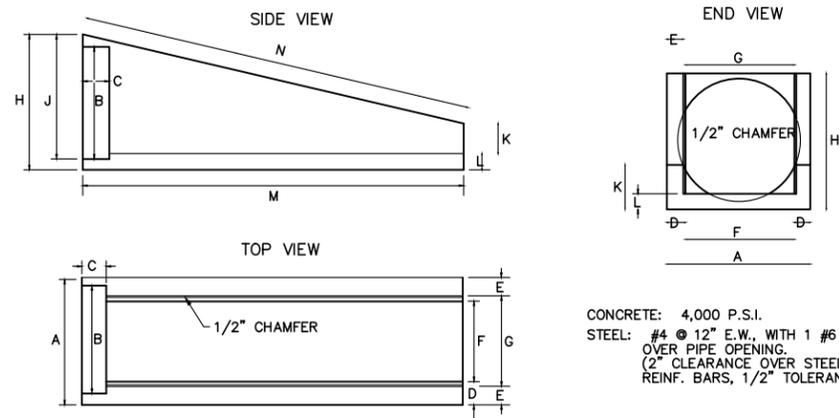
COLIN D. GROHE, P.E. REG. NO. 47609	DATE 07/16/28
BY CdG	REVISIONS
NO.	REVISED PER CITY COMMENTS
1	

CR 209 WAREHOUSES
CITY OF GREEN COVE SPRINGS
ROWW, LLC

CONSTRUCTION DETAILS

JOB NO. : 25-002	DATE: 3/20/2025
DRAWN BY : CdG	CHECKED BY : CdG
APPROVED BY : CdG	SCALE : NTS
SHEET	
6	

NOT ISSUED FOR CONSTRUCTION

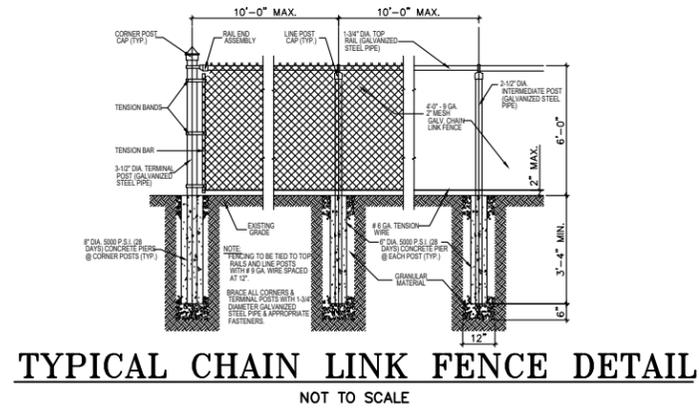


CONCRETE: 4,000 P.S.I.
 STEEL: #4 @ 12" E.W., WITH 1 #6 OVER PIPE OPENING. (2" CLEARANCE OVER STEEL REINF. BARS, 1/2" TOLERANCE).

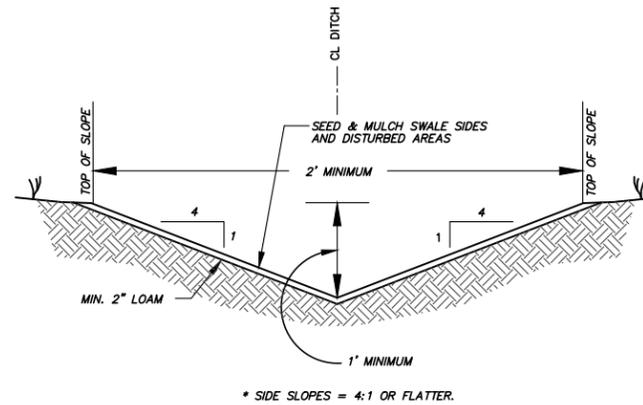
TABLE OF DIMENSIONS

RCP/CMP	A	B	C	D	E	F	G	H	J	K	L	M	N
15" - 18"	2'-7"	2'-1"	6"	6"	6.75"	1'-6"	1'-7"	2'-10"	2'-4"	8"	6"	6'-10"	7'-0"
24"	2'-11"	2'-8"	6"	5"	4.5"	1'-11"	2'-0"	3'-6"	3'-1"	7.5"	5"	10'-0"	10'-3.5"
30"	3'-6"	3'-2"	6"	6"	5.5"	2'-5"	2'-6.5"	3'-9"	3'-5"	7"	5"	11'-5"	11'-8.25"
36"	4'-1"	3'-10"	6"	7"	5.5"	2'-9"	3'-0"	4'-6"	4'-0"	6"	6"	14'-0"	14'-4.5"

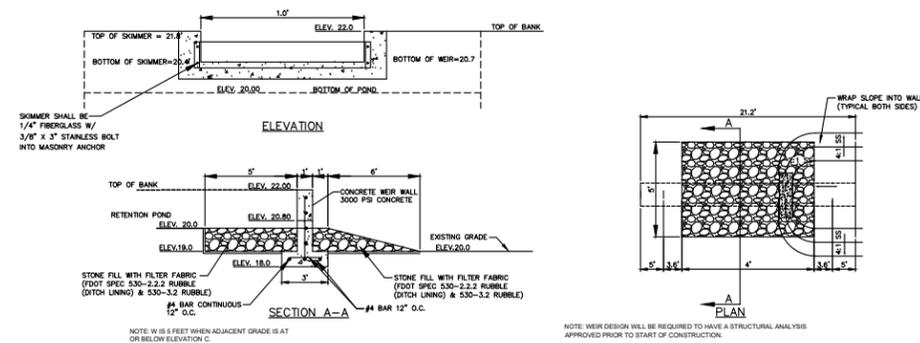
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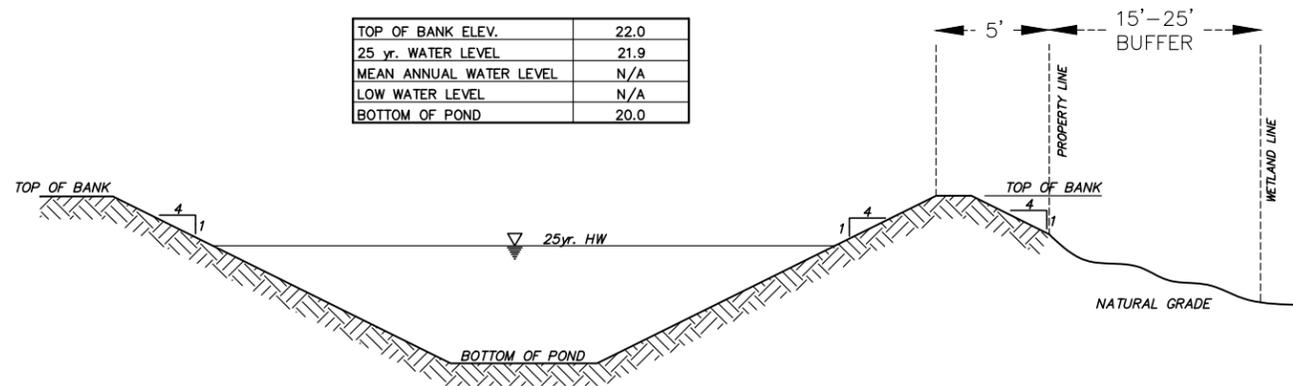
TYPICAL CHAIN LINK FENCE DETAIL
 NOT TO SCALE



TYPICAL SWALE SECTION
 NOT TO SCALE



OUTLET WEIR DETAIL
 NOT TO SCALE



POND TYPICAL SECTION A-A
 NOT TO SCALE

COLIN D. GROFF, P.E.
 REG. NO. 47609

DATE: 07/16/25
 BY: CcG

REVISIONS
 NO. 1 REVISED PER CITY COMMENTS

NO. 1

BLACK CREEK ENGINEERING, INC.
 3900 PASO FINO ROAD
 GREEN COVE SPRINGS, FLORIDA 32043
 PHONE (904) 759-8830
 AUTHORIZATION NO. 27946

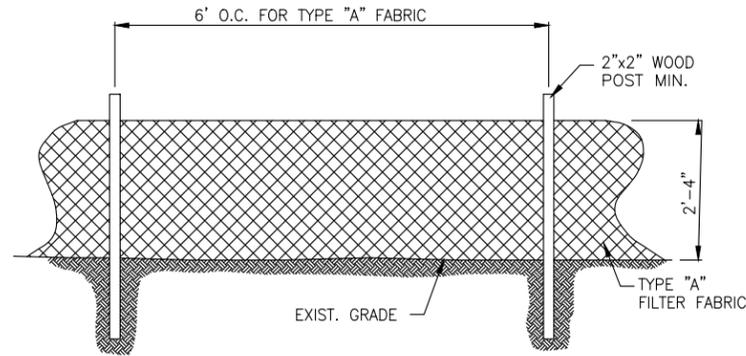
CR 209 WAREHOUSES
 CITY OF GREEN COVE SPRINGS
 ROW, LLC

CONSTRUCTION DETAILS

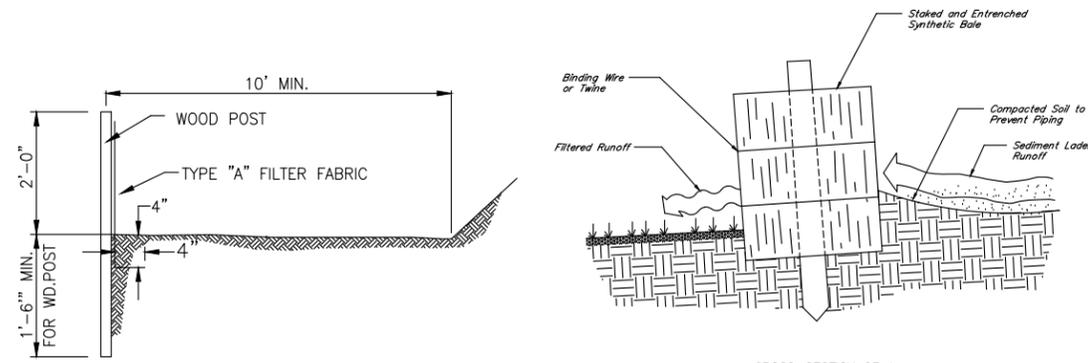
JOB NO. : 25-002
 DATE: 3/20/2025
 DRAWN BY : CcG
 CHECKED BY : CcG
 APPROVED BY : CcG
 SCALE : NTS

SHEET
 7

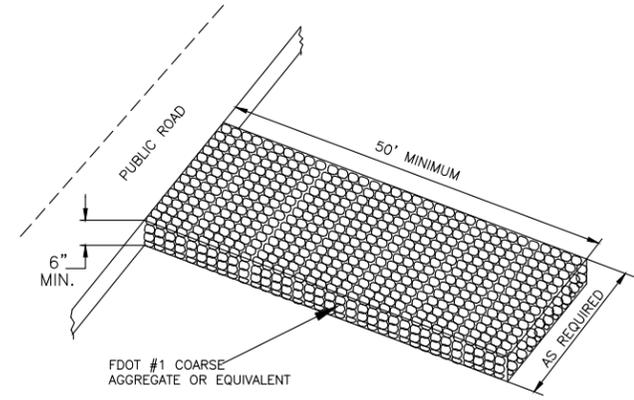
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TEMPORARY SILT FENCE

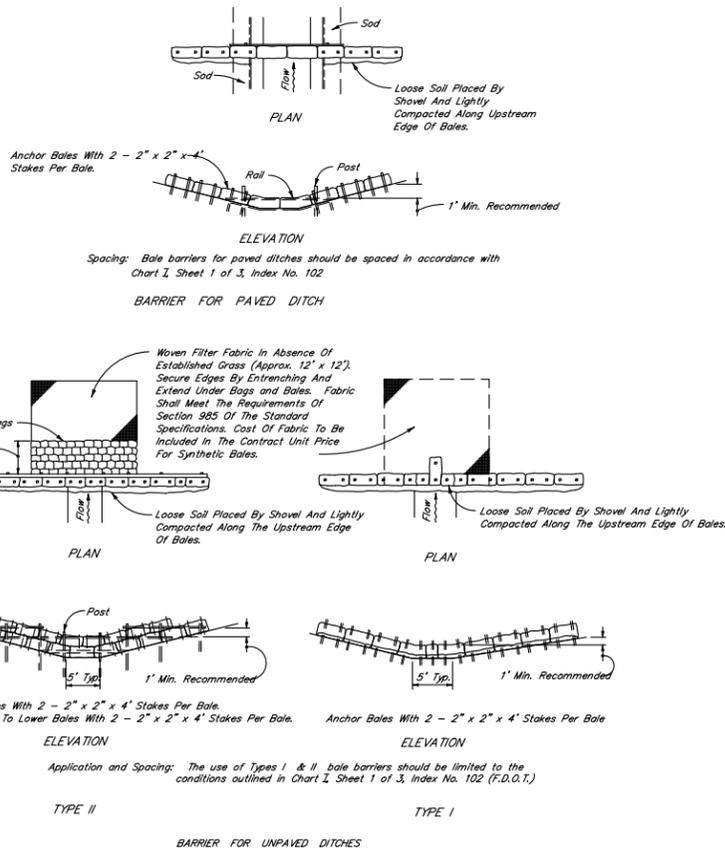


STAKED EROSION CONTROL BALE

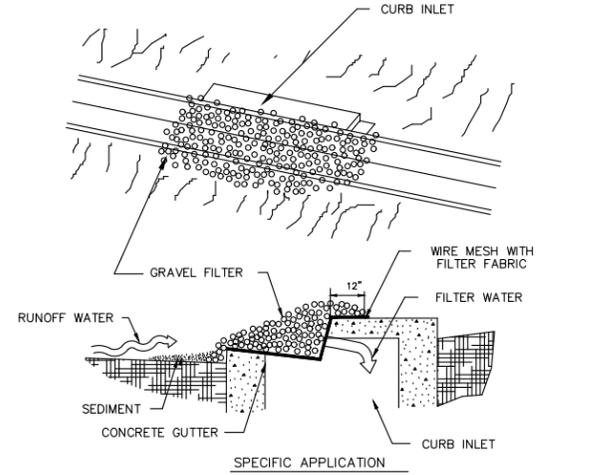


STABILIZED CONSTRUCTION ENTRANCE

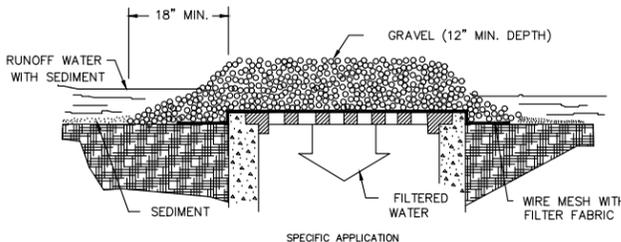
N.T.S.



SYNTHETIC BALE BARRIERS TYPE I & II



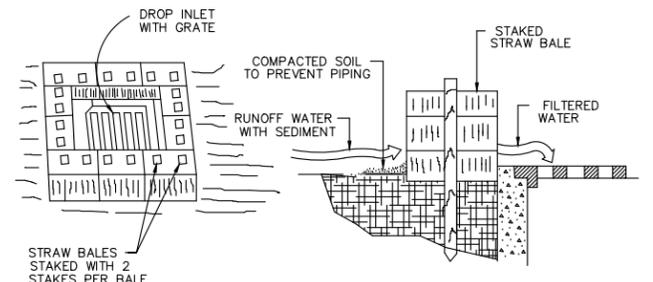
GRAVEL CURB INLET SEDIMENT FILTER



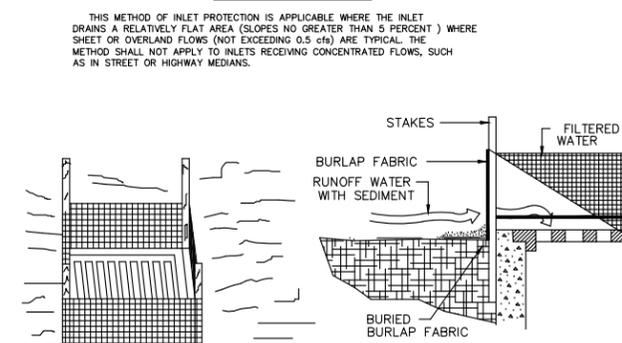
GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

GRAVEL INLET SEDIMENT TRAP

N.T.S.



HAY BALE SEDIMENT FILTER



FABRIC SEDIMENT FILTER

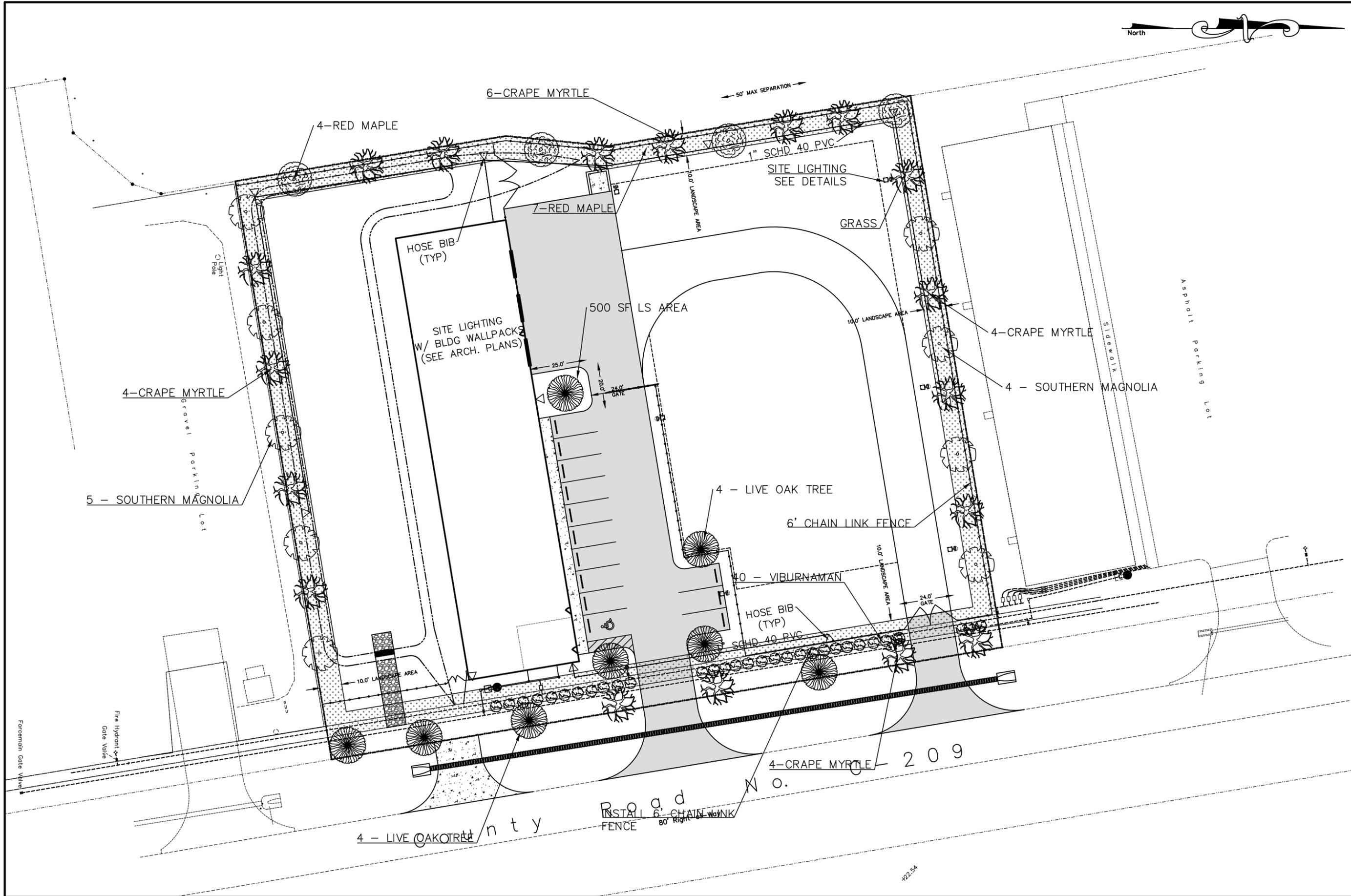
DROP INLET SEDIMENT TRAP

N.T.S.

COLIN D. GROFF, P.E. REG. NO. 47609	DATE	BY	REVISIONS	NO.
BLACK CREEK ENGINEERING, INC. 3800 PASO FINO ROAD GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946				
CR 209 WAREHOUSES CITY OF GREEN COVE SPRINGS ROWM, LLC				
STORMWATER POLLUTION PREVENTION PLAN				
JOB NO. : 25-002	DATE: 3/20/2025	DRAWN BY : CdG	CHECKED BY : CdG	APPROVED BY : CdG
				SCALE : NTS
SHEET				8

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COLIN D. GROFF, P.E.
REG. NO. 47609

NO.	DATE	BY	REVISIONS
1	07/16/26	CdG	REVISED PER CITY COMMENTS

BLACK CREEK ENGINEERING, INC.
3900 PASO FINO ROAD
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

CR 209 WAREHOUSES
CITY OF GREEN COVE SPRINGS
CR 209, LLC
LANDSCAPE & LIGHTING PLAN

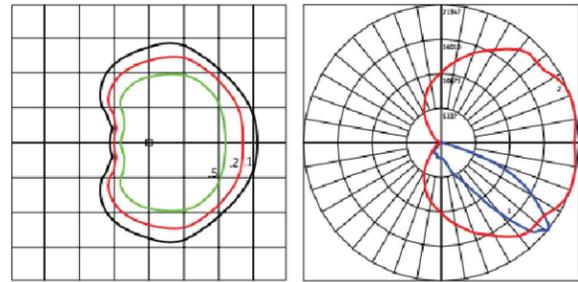
JOB NO. : 25-002
DATE : 3/20/2025
DRAWN BY : CdG
CHECKED BY : CdG
APPROVED BY : CdG
SCALE : 1"=40'

SHEET
9

NOT ISSUED FOR CONSTRUCTION

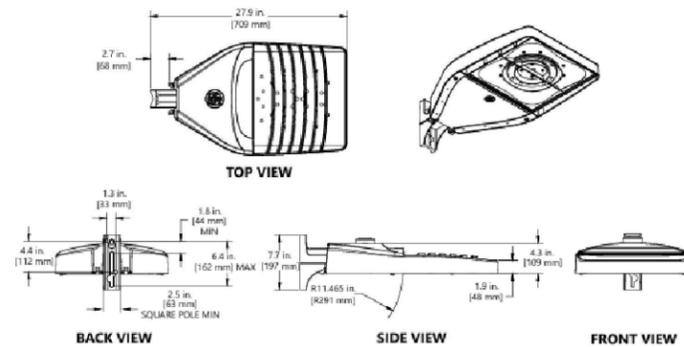
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EALS Type III - Asymmetric Wide (K3)
31,000 Lumens, 5000K (EALS02_K3AW750...IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 Vertical plane through horizontal angle of maximum candlepower at 20°
 Vertical plane through horizontal angle of 51°

UNIVERSAL ARM MOUNT: D1



OUTDOOR LIGHTING DETAILS

QUANTITY %	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE (HT x SP)	TYPE / WATER_ZONE
8	●	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	FG, 2.5" CAL., 12' HT., 5' SPR.	CT / M,L
9	●	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	FG, 2.5" CAL., 10' HT., 5' SPR.	CT / L
4	●	ACER RUBRUM	RED MAPLE	FG, 2.5" CAL., 10' HT., 5' SPR.	CT / H,M
18	●	MYRICA CERIFERA	WAX MYRTLE	FG, 2.2" CAL., 8' HT., 5' SPR.	UST / M,L
40	●	VIBURNUM OBOVATUM	VIBURNAMAN	3 GAL, 2' HT, 1' SPR, 3' OC	SH / H,L

NOTES:

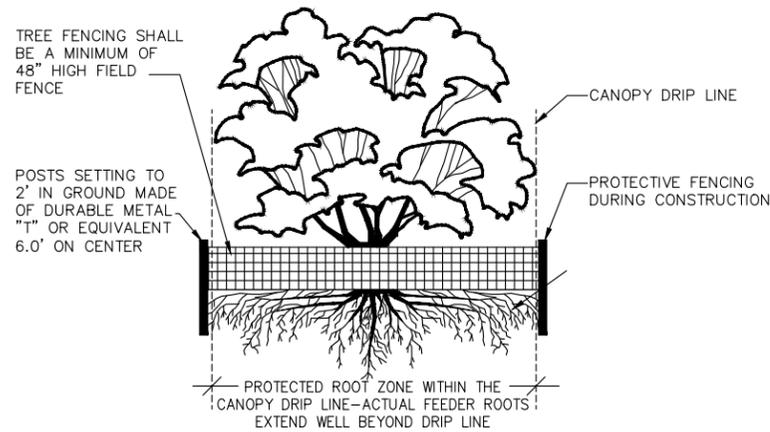
- HOSE BIBS ARE PROVIDED FOR IRRIGATION REQUIREMENTS.
- PLANT MATERIALS SHALL BE FLORIDA NO. 1 GRADE MATERIALS.
- ALL DISTURBED AREAS SHALL HAVE ESTABLISHED GRASS AT COMPLETION.
- CANOPY TREES SHALL HAVE A MINIMUM PLANTING AREA 5' FROM THE TRUNK
- UNDERSTORY TREES SHALL HAVE A MINIMUM PLANTING AREA 2.5' FROM THE TRUNK

TREE REQUIREMENT CALCULATIONS:

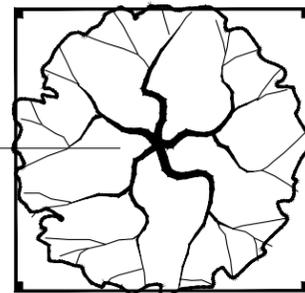
PERIMETER LANDSCAPING: $1,123' / 50' = 23$ SHADE OR CANOPY TREES REQ.
 PARKING AREA LANDSCAPING: 4 PARKING ISLANDS * 1 CT/ISLAND = 4 CANOPY TREES REQUIRED OR,
 INTERIOR LANDSCAPING: $10,500 \text{ SF} / 1,500 \text{ SF} + 67,372 \text{ SF} / 4,000 \text{ SF} = 17$ TREES REQ

TOTAL TREES REQUIRED: 14 CANOPY TREES / 14 UNDERSTORY TREES
 TOTAL TREES PROVIDED: 21 CANOPY TREES / 18 UNDERSTORY TREES

CANOPY / UNDERSTORY TREE PROPORTIONAL CALC. = $27 \text{ TOTAL TREES REQUIRED} / 2 = 14 \text{ UNDERSTORY TREES}$

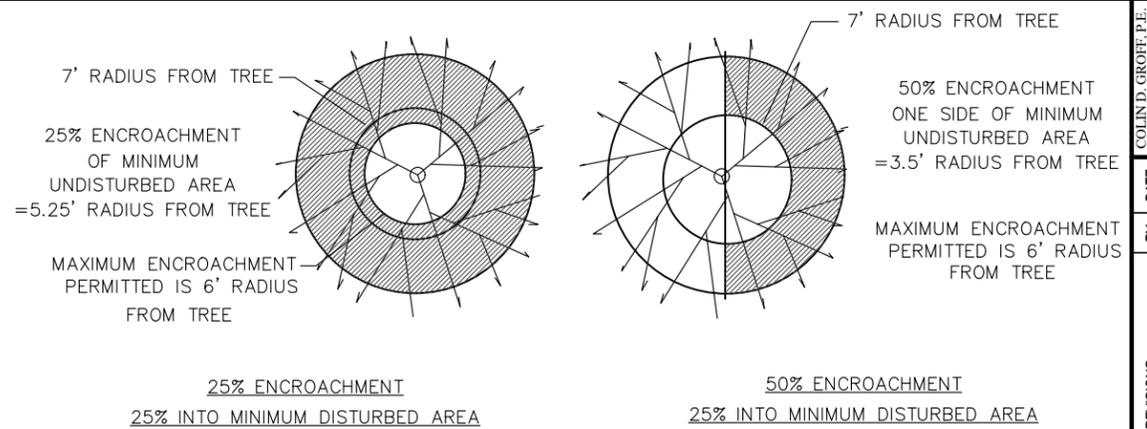


SECTION



PLAN

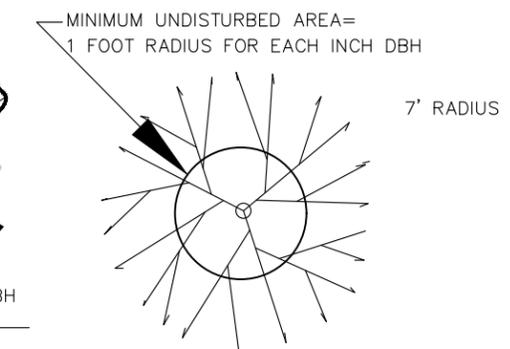
TREE PROTECTION DETAIL
 N.T.S.



MAXIMUM ENCROACHMENT OPTIONS



ELEVATION



PLAN VIEW

MINIMUM UNDISTURBED AREA

NOTE: NONE OF THE b&b TREES ARE TO BE STAKED UNLESS INDICATED

TYPICAL B&B TREE

NOTE: ALL TREES SHOULD BE PRUNED ONLY AFTER INSTALLATION AND WATERING—IN THE TREE — PRUNE TO GROWERS SPECIFICATIONS

NOTE: ALL TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK — INCLUDING TREE PIT DEPTH AND WIDTH

PLASTIC SPIRAL TREE PROTECTION

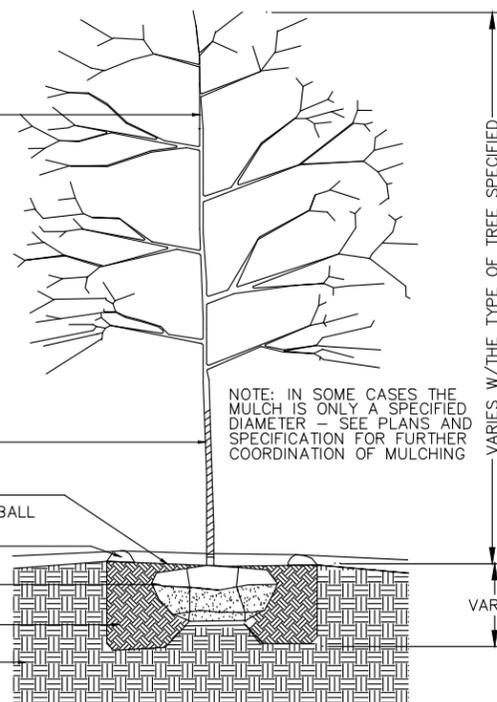
SHREDDED HARDWOOD BARK MULCH
 2" MIN COVER TO EDGE OF ROOT BALL

70-100 MUDDLE RING

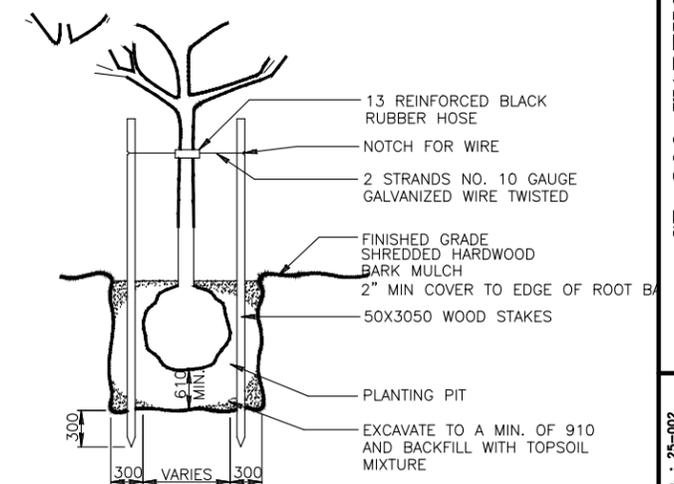
TREE BALL

PLANTING SOIL

CONSTRUCTION SOIL



BALLED & BURLAPPED DECIDUOUS TREE DETAIL
 N.T.S.



SHRUBS & STAKED TREES
 N.T.S.

COLIN D. GROFF, P.E.
 REG. NO. 47609

NO.	DATE	REVISIONS	BY
1		REVISED PER CITY COMMENTS	

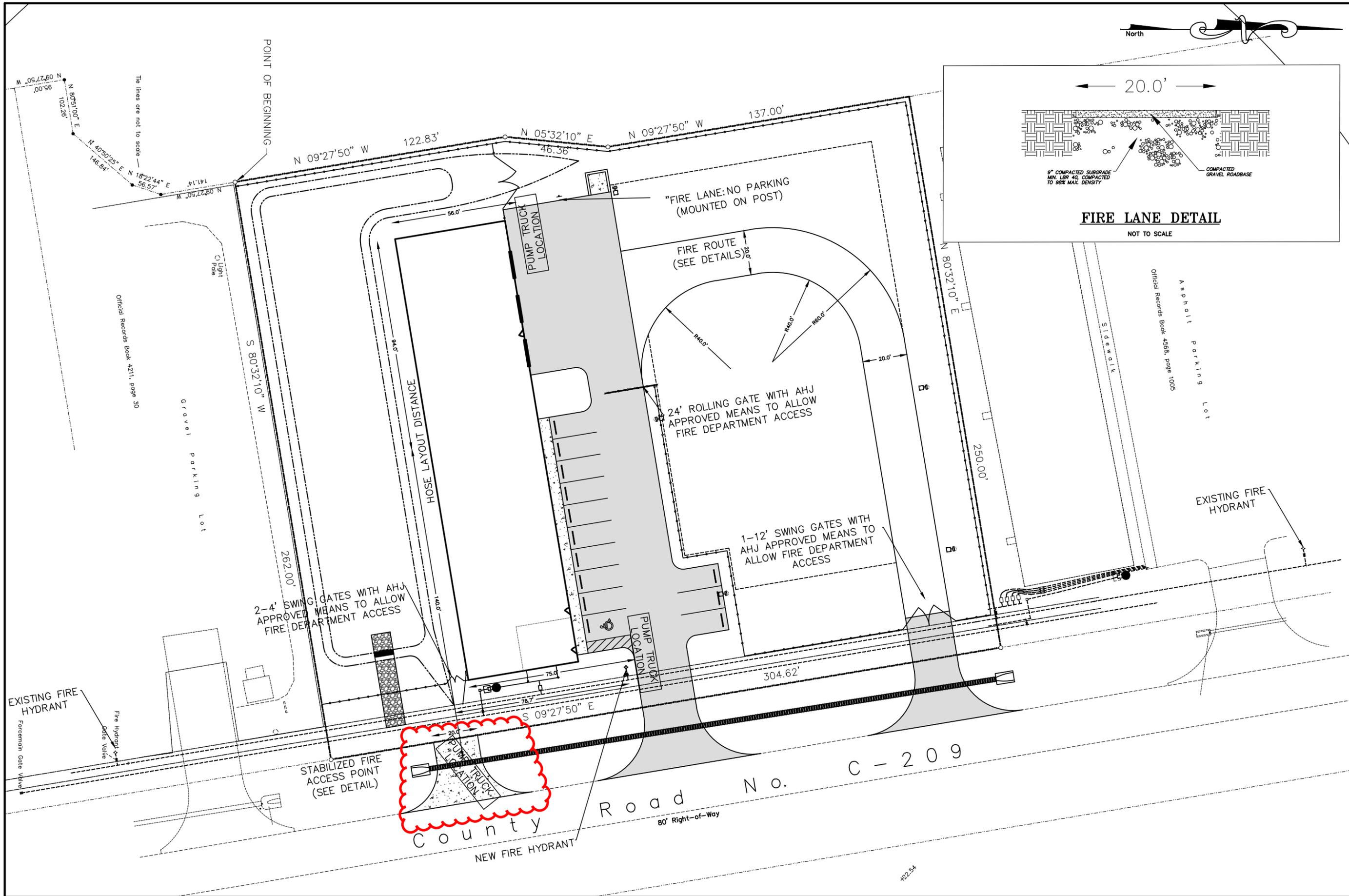
BLACK CREEK ENGINEERING, Inc.
 3900 PASO FINO ROAD
 GREEN COVE SPRINGS, FLORIDA 32043
 PHONE (904) 759-8830
 AUTHORIZATION NO. 27946

CR 209 WAREHOUSES
 CITY OF GREEN COVE SPRINGS
 ROW, LLC
LANDSCAPE & LIGHTING DETAILS

JOB NO. : 25-002	DATE: 3/20/2025	DRAWN BY : CcG	APPROVED BY : CcG
		CHECKED BY : CcG	SCALE : NTS

SHEET
10

NOT ISSUED FOR CONSTRUCTION



COLIN D. GROFF, P.E.
REG. NO. 47609

NO.	REVISIONS	DATE	BY
1	REVISED PER CITY COMMENTS	07/16/26	CdG
2	ADDED FIRE ACCESS DRIVE	1/27/26	CdG

BLACK CREEK ENGINEERING, INC.
3900 PASO FINO ROAD
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

CR 209 WAREHOUSES
CITY OF GREEN COVE SPRINGS
CR 209, LLC

LIFE SAFETY PLAN

JOB NO. : 25-002
DATE: 3/20/2025
DRAWN BY : CdG
CHECKED BY : CdG
APPROVED BY : CdG
SCALE : 1"=40'

SHEET
11

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CUSTOM PUMP & CONTROLS, INC.
PACKAGED FIBERGLASS PUMP LIFT STATIONS
PACKAGED FIBERGLASS VALVE BOXES
D.E.P. OR STANDARD CONTROL PANELS
 JAX. (800) 940-3758 TAMPA (800) 940-3309
 FURNISH AND INSTALL A COMPLETE PRE-PACKAGE CUSTOM PUMP & CONTROL
 GRINDER PUMP STATION AS DESCRIBED BELOW

SPECIFICATIONS
 DESIGN CONDITIONS

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

PUMP

THE PUMP SHALL BE A MYERS "SUPER-GRIND" AND HAVE AN INTEGRALLY BUILT IN GRINDER UNIT AND SUBMERSIBLE TYPE MOTOR. THE PUMP SHALL BE SUSPENDED IN THE BASIN BY TWO (2) 1-1/4" STAINLESS STEEL GUIDE RAILS AND QUICK DISCONNECT LIFT OUT MOUNTING ASSEMBLY. SOLIDS SHALL BE FED IN AN UPFLOW DIRECTION TO THE GRINDER MECHANISM WITH NO OBSTRUCTIONS BELOW THE GRINDER INLET. EQUAL SYSTEMS MAY BE APPROVED BY THE ENGINEER.

THE GRINDER UNIT SHALL BE CAPABLE OF CUTTING SOLID MATERIAL FOUND IN NORMAL DOMESTIC SEWAGE, INCLUDING REASONABLE AMOUNTS OF FOREIGN OBJECTS, SUCH AS WOOD, PLASTIC, GLASS, RUBBER, SANITARY NAPKINS, DISPOSABLE DIAPERS AND PANTY HOSE INTO A FINE SLURRY THAT WILL PASS FREELY THROUGH THE PUMP, SERVICE LINE AND FORCE MAIN.

MOTOR

THE PUMP MOTOR SHALL BE OF THE SUBMERSIBLE TYPE RATED FOR 3, 5, 7-1/2 HORSEPOWER AT 3450 RPM. MOTOR SHALL BE SINGLE PHASE, OR THREE PHASE, 60 HERTZ. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR START-CAPACITOR RUN TYPE FOR HIGH STARTING TORQUE.

THE STATOR WINDING SHALL BE THE OPEN TYPE WITH CLASS F INSULATION RATED FOR 105° C MAXIMUM OPERATING TEMPERATURE. THE WINDING HOUSING WILL BE FILLED WITH CLEAN DIELECTRIC OIL THAT WILL LUBRICATE BEARINGS, SEALS AND TRANSFER HEAT FROM THE WINDINGS TO THE OUTER SHELL. THE MOTOR STATOR IS TO BE PRESSED INTO THE MOTOR HOUSING FOR OPTIMUM CONCENTRICITY AND ALIGNMENT, AND MAXIMUM HEAT TRANSFER. THE MOTOR SHALL BE CAPABLE OF OPERATING OVER FULL RANGE OF PERFORMANCE CURVE WITHOUT OVERLOADING MOTOR AND CAUSING ANY OBJECTIONAL NOISE OR VIBRATION.

THE MOTOR SHALL HAVE TWO BALL BEARINGS TO SUPPORT THE ROTOR; AN UPPER BALL BEARING TO ACCOMMODATE THRUST LOADS AND A LOWER BALL BEARING TO TAKE RADIAL LOADS. BALL BEARINGS SHALL BE DESIGNED FOR A LB-10 LIFE (50,000 HOURS).

A HEAT SENSOR THERMOSTAT AND OVERLOAD SHALL BE ATTACHED TO THE TOP END OF THE MOTOR WINDINGS AND SHALL STOP THE MOTOR IF THE MOTOR WINDING TEMPERATURE REACHES 200° F. THE HIGH TEMPERATURE SHUTOFF WILL CAUSE THE PUMP TO CEASE OPERATION, SHOULD A CONTROL FAILURE CAUSE THE PUMP TO RUN IN A DRY WET WELL. THE THERMOSTAT SHALL RESET AUTOMATICALLY WHEN THE MOTOR COOLS TO A SAFE OPERATING TEMPERATURE.

SEAL CHAMBER

THE MOTOR SHALL BE PROTECTED BY TWO (2) ROTARY SHAFT SEALS MOUNTED IN TANDEM WITH AN OIL FILLED CHAMBER SEPARATING THE SEALS. THE SEALS SHALL HAVE CARBON AND CERAMIC SEAL FACES DIAMOND LAPPED TO A TOLERANCE OF ONE LIGHT BAND. METAL PARTS AND SPRINGS FOR SEALS SHALL BE STAINLESS STEEL. AN ELECTRICAL SENSING PROBE SHALL BE MOUNTED IN THE SEAL CHAMBER TO DETECT ANY WATER LEAKAGE PAST THE LOWER SEAL.

GRINDER ASSEMBLY & CONSTRUCTION

THE GRINDER ASSEMBLY SHALL CONSIST OF A ROTATING RADIAL CUTTER AND A STATIONARY SHREDDING RING, AND SHALL BE MOUNTED DIRECTLY BELOW THE VOLUTE PASSAGE. THE ROTATING CUTTER SHALL BE THREADED ONTO THE STAINLESS STEEL SHAFT AND SHALL BE LOCKED WITH A SCREW AND WASHER. THE STATIONARY SHREDDING RING SHALL BE PRESSED ONTO AN IRON HOLDING FLANGE FOR EASY REMOVAL. THE FLANGE SHALL BE PROVIDED WITH TAPPED BACK-OFF HOLES SO THAT SCREWS CAN BE USED TO PUSH THE SHREDDING RING FROM THE HOUSING. BOTH THE RADIAL CUTTER AND SHREDDING RING SHALL BE REMOVABLE FROM THE HOUSING WITHOUT DISMANTLING PUMP GRINDER ASSEMBLY. BE OF SUCH CONSTRUCTION THAT NO CLEARANCE ADJUSTMENTS ARE REQUIRED WHEN ASSEMBLING. ALL GRINDING OF SOLIDS SHALL BE FROM THE ACTION OF THE RADIAL CUTTER AGAINST THE SHREDDING RING. THE RADIAL CUTTER AND SHREDDING RING SHALL BE OF #440 STAINLESS STEEL HARDENED TO 58-60 ROCKWELL C.

PUMP IMPELLER

THE PUMP IMPELLER SHALL BE OF THE RECESSED TYPE TO PROVIDE AN OPEN UNOBSTRUCTED PASSAGE THROUGH THE VOLUTE FOR THE GROUND SOLIDS. THE IMPELLER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL HAVE PUMP OUT VANES ON THE BACK SIDE OF THE IMPELLER TO KEEP SOLIDS FROM LOWER SEAL AND REDUCE PRESSURE AT THE SEAL FACES. IMPELLER SHALL BE THREADED ONTO THE STAINLESS STEEL SHAFT.

PUMP & MOTOR CASTINGS

ALL IRON CASTING SHALL BE OF HIGH TENSILE CAST IRON AND SHALL BE PROPERLY CLEANED, PRE-TREATED WITH CHROMIC RINSE, AND PAINTED WITH A HIGH QUALITY ENAMEL PAINT. ALL PUMP COMPONENTS THAT ARE NOT CAST IRON OR STAINLESS STEEL SHALL BE GALVANIZED OR PAINTED WITH BAKED-ON EPOXY. ALL FASTENERS SHALL BE #302 STAINLESS STEEL.

SERVICE

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

WET WELL

SHALL BE A FILAMENT WOUND FIBERGLASS BASIN USING A COMMERCIAL GRADE OF GLASS FIBER HAVING A COUPLING AGENT WHICH WILL PROVIDE A SUITABLE BOND BETWEEN THE GLASS REINFORCEMENT AND THE RESIN. THE LAMINATE SHALL CONSIST OF AN INNER SURFACE, AN INTERIOR LAYER, AND AN EXTERIOR LAYER OF LAMINATE BODY. THE INNER SURFACE SHALL BE FREE OF CRACKS AND CRAZING WITH A SMOOTH FINISH. SOME WAUNESS IS PERMISSIBLE AS LONG AS THE SURFACE IS SMOOTH AND FREE OF PITS. BETWEEN 0.010 AND 0.020 INCHES OF RESIN-RICH SURFACE SHALL BE PROVIDED. THE BASIN SHALL BE PROVIDED WITH AN ANTI-FLOATATION RING TO PREVENT RISING. WETWELL PKG. SHALL BE AS PROVIDED BY CUSTOM PUMP & CONTROLS UTILIZING RESILIENT MOUNT PIPE CONNECTION ASSEMBLIES TO ALLOW FOR VARIATIONS IN SETTING PIPING ALIGNMENTS AND CHANGES FROM BACKFILLING AFTER SETTING. RIGID CAST IN PIPE FITTINGS OR FIBERGLASS RIGID HUBS WILL NOT BE CONSIDERED EQUAL OR ACCEPTABLE.

INLET HUB

SHALL BE C.P.C. RESILIENT MOUNT SEALING SYSTEM, COMPLETE WITH GASKETS AND FLEXIBLE PIPE COUPLER, STAINLESS STEEL MOUNTING HARDWARE

SIZE SHALL BE	4 INCHES	X	6 INCHES	8 INCHES	10 INCHES
QUANTITY	4 INCHES	2	6 INCHES	8 INCHES	10 INCHES

VALVE BOX

SHALL BE CPC MODEL V83242 FIBERGLASS VALVE BOX WITH U.S. FOUNDRY APS-150 ALUMINUM VALVE BOX COVER. VALVE BOX SHALL BE COMPLETELY PRE-PLUMBED USING ALL SCHEDULE 80 PVC PIPING AND FITTINGS, AND SHALL INCLUDE TWO (2), 2" SCHEDULE 80 PVC FLANGED BALL CHECK VALVES, AND THREE (3), 2" SCHEDULE 80 PVC FLANGED GATE VALVES. (ONE (1) 2" GATE VALVE IS SUPPLIED AS AN EMERGENCY PUMP-OUT). PVC PIPING IN VALVE BOX AND WET WELL SHALL BE CONNECTED AND HELD IN PLACE BY CPC MODEL 32 RESILIENT MOUNT SEALING SYSTEM TO COMPENSATE FOR POSSIBLE UNEVEN SETTLING OF BASIN OR VALVE BOX. SYSTEM SHALL BE PRESSURE TESTED AT 150 P.S.I. PRIOR TO SHIPMENT.

ALUMINUM HATCH COVERS

SHALL BE FABRICATED FROM 1/4" ALUMINUM DIAMOND PLATE AND BUILT TO WITHSTAND A LOAD OF 150 LB. P.S.F. AND SHALL BE MANUFACTURED BY U.S. FOUNDRY, HALLDAYS, OR EQUAL. STAINLESS STEEL BOLTS, NUTS AND HINGES - LOCKING STAPLE.

FLOATS

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

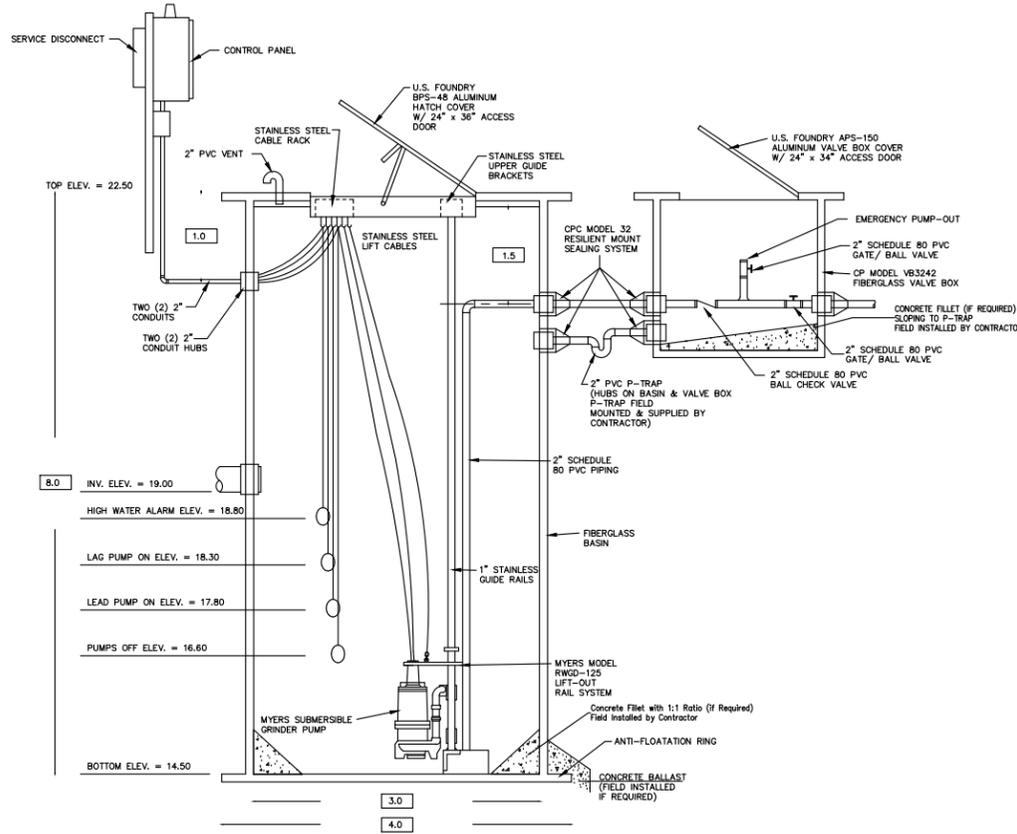
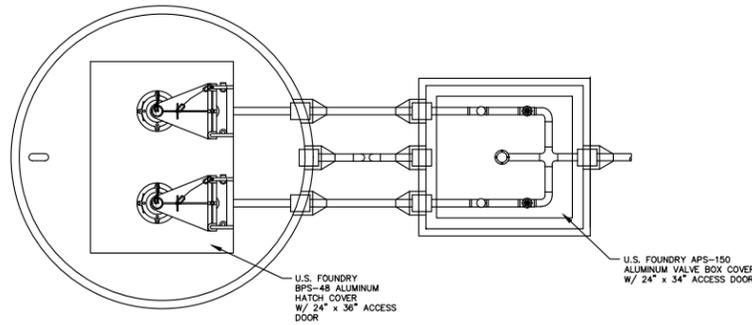
ACCESSORIES

- STAINLESS STEEL UPPER GUIDE BRACKETS
- STAINLESS STEEL GUIDE RAILS
- STAINLESS STEEL CABLE RACK
- STAINLESS STEEL LIFT CABLES - CHAIN

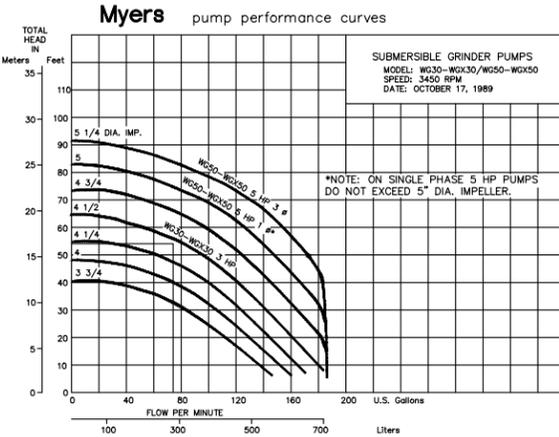
ANTI-FLOATATION

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

BASIN DIAMETER	CUBIC FEET OF CONCRETE REQUIRED PER FOOT OF BASIN DEPTH
24"	2
30"	3.5
36"	5
48"	8.5
60"	12

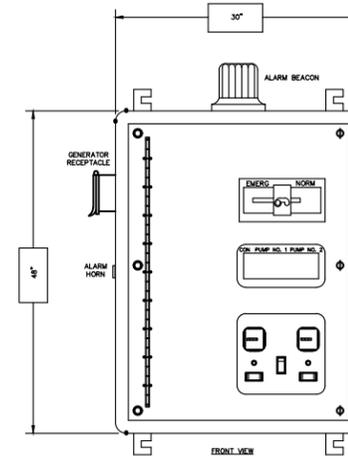


PUMP PERFORMANCE CURVE



ENCLOSURE MAT	X	FG.	SS	X	GPS
H.P.	3.0	PHASE	3	VOLTAGE	230
SERVICE SYSTEM	3 WIRE			4 WIRE	X

* NOTE: CONTRACTOR TO FIELD VERIFY PHASE AND VOLTAGE



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

ENCLOSURE SHALL BE NEMA 4, FABRICATED FROM X FIBERGLASS, STAINLESS STEEL, ALUMINUM OR GALVANIZED PAINTED STEEL. OUTER DOOR SHALL HAVE HINGES AND MEANS FOR PADLOCKING. INNER DEADFRONT DOOR SHALL BE 5052-H32 ALLOY ALUMINUM. ALL MOUNTING HOLES SHALL BE DRILLED AND TAPPED. SELF TAPPING SCREW NOT ACCEPTABLE. ALL BOLTS, NUTS, LOCK WASHERS, AND MACHINE SCREWS SHALL BE STAINLESS STEEL.

THE FOLLOWING MAJOR COMPONENTS ARE REQUIRED:

- 1) MAIN BREAKER
- 2) EMERGENCY BREAKER AND GENERATOR RECEPTACLE-RUSSELL STOLL
- 3) PUMP BREAKERS
- 4) CONTROL CIRCUIT BREAKER
- 5) ALTERNATOR
- 6) HIGH LEVEL FLASHING ALARM LIGHT
- 7) HIGH LEVEL HORN ALARM WITH SILENCE - WHEN SILENCE LIGHT STAYS ON
- 8) LIGHTNING ARRESTOR
- 9) SURGE SUPPRESSER
- 10) PHASE/UNDER VOLTAGE MONITORING RELAY IF 3 PHASE, UNDER VOLTAGE MONITORING RELAY IF SINGLE PHASE
- 11) NEMA RATED MOTOR STARTERS WITH OVERLOAD PROTECTION FOR ALL POWER LEAS
- 12) ELAPSE TIME METERS
- 13) CAPACITORS AND START-RELAYS AS APPROVED FOR MYERS PUMPS ON SINGLE PHASE SYSTEMS.

TYPICAL SEQUENCE OF OPERATION:

ON RISE LEVEL:

LOWEST FLOAT WILL CLOSE CIRCUIT TO RELAY. LEAD PUMP ON FLOAT CLOSES TO BRING LEAD PUMP ON. IF LEAD DOES NOT RECLOSE AND CONTINUES TO RISE, THE LAG FLOAT WILL CLOSE AND BRING ON THE PUMP. FURTHER RISING OF LEVEL IN WETWELL WILL CLOSE 4TH FLOAT (HIGH LEVEL) AND ACTIVATE THE HIGH LEVEL ALARM LIGHT AND HORNS.

ON FALLING 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 BEING FURNISHED REQUIRE SEAL FAILURE COMPONENTS AND INDICATION TO VALIDATE WARRANTY, THESE COMPONENTS SHALL BE FURNISHED AS REQUIRED.

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

A 24 HOUR EMERGENCY 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 (EXCEPT AS NOTED)	NO.	DATE	BY	REVISIONS
DECIMAL	1			
FRACTIONAL	2			
±	3			
±	4			
±	5			

CUSTOM PUMP & CONTROLS INC.		JACKSONVILLE-TAMPA, FLORIDA	
2 H.P. PACKAGED GRINDER PUMP-FIBERGLASS LIFT STATION		SCALE N.T.S. MATERIAL	
DATE	3-25-93	DRAWING NO.	C9315
REVISED	06-14-01		

COLIN D. GROFF, P.E.
 REG. NO. 47609

NO.	DATE	BY	REVISIONS

Black Creek Engineering, Inc.
 3600 PASO FINO ROAD
 GREEN COVE SPRINGS, FLORIDA 32043
 PHONE (904) 759-8830
 AUTHORIZATION NO. 27946

CR 209 WAREHOUSES
 CITY OF GREEN COVE SPRINGS
 ROWW, LLC
CONSTRUCTION DETAILS

JOB NO. : 25-002
 DATE: 3/20/2025
 DRAWN BY : CdG
 CHECKED BY : CdG
 APPROVED BY : CdG
 SCALE : NTS

SHEET
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