

EXISTING UTILITY OWNER

SEWER

SR 1434

SITE

LILLINGTON PUBLIC WORKS DEPARTMENT

PO Box 296 Lillington, North Carolina 27546 910-893-0314 Contact: Shane Cummings, PE

WATER

HARNETT REGIONAL WATER

700 McKinney Parkway Lillington, North Carolina 27546 910-893-7575 Contact: Glenn McFadden



SOURCE OF TITLE DB 4177, PG 1478 HARNETT COUNTY REGISTER OF DEEDS

NORTH

REZONING CONDITIONS

- MINIMUM LOT SIZE 20'X100 FRONT SETBACK - 20', REAR SETBACK - 10 SIDE SETBACK - 0', CORNER SIDE - 10' GARAGES FOR TOWN HOMES WILL BE FRONT
- SINGLE STREET CONNECTION TO NC 210 WITH TWO ROAD STUBS TO ADJOINING PROPERTY AS

CIVIL ENGINEER

4D SITE SOLUTIONS, INC. 409 Chicago Drive - Suite 112 Fayetteville, North Carolina 28306 910-426-6777 Contact: Scott Brown, PE email: sbrown@4dsitesolutions.com

THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

NEILLS CREEK TOWNSHIP

TOWN OF LILLINGTON, NORTH CAROLINA

HARNETT COUNTY

HARPER'S MEADOW SITE DEVELOPMENT PLANS

G1.0 - PROJECT NOTES

C1.0 - EXISTING CONDITIONS

INDEX OF DRAWINGS

C2.0 - SITE PLAN

C3.0 - GRADING AND EROSION CONTROL PLAN

C3.1 - DETAILED WET POND PLAN

C4.0 - UTILITY PLAN

C4.1 - STORM & SEWER STRUCTURE DATA

C5.0 - 5.5 - PROFILES

OWNER/DEVELOPER

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 704-608-3085 Contact: Kirby LaForce email: carolinalandgroup@outlook.com

4D SITE SOLUTIONS, INC. 409 Chicago Drive - Suite 112 Fayetteville, North Carolina 28306 910-426-6777 Contact: Jimmy Holland, PLS email: jholland@4dsitesolutions.com



C6.0 - SITE DETAILS C6.1 - 6.2 - EROSION CONTROL DETAILS C6.3 - SITE & EROSION CONTROL DETAILS C6.4 - 6.5 - STORM DETAILS C6.6 - WATER DETAILS C6.7 - WATER & SEWER DETAILS C6.8 - SEWER DETAILS C6.9 - LIFT STATION DETAILS

APPROVED





SURVEYOR





REVISIONS SSUED FOR CONSTRUCTION

PROJECT NAME

HARPER'S MEADOW

PIN: 0651-90-8197.000 N MAIN ST/ NC HWY 210 **NEILLS CREEK TOWNSHIP** TOWN OF LILLINGTON HARNETT COUNTY NORTH CAROLINA

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

SEE SHEETS

DATE RELEASED

MARCH 22, 2024

2022 HRW REQUIRED UTILITY NOTES

WATER

(REVISION 10- APRIL 19, 2022) THE FOLLOWING UTILITY NOTES SHOULD BE ADDED TO THE COVERSHEET OF UTILITY PLANS FOR PROJECTS LOCATED IN HARNETT COUNTY:

A. THE FIRE MARSHAL'S OFFICE SHALL APPROVE ALL HYDRANT TYPES AND LOCATIONS IN NEW SUBDIVISIONS. HOWEVER, HARNETT REGIONAL WATER (HRW) PREFERS THE CONTRACTORS TO INSTALL ONE OF THE FOLLOWING FIRE HYDRANTS:

- . MUELLER SUPER CENTURION 250 A-423 MODEL WITH A 5¼" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE);
- 2. AMERICAN DARLING MARK B-84-B MODEL WITH A 51/4" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE);
- 3. WATEROUS PACER B-67-250 MODEL WITH A 514" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE) OR APPROVED EQUAL FOR STANDARDIZATION.
- *ALL FIRE HYDRANTS LISTED ABOVE MUST HAVE "AMERICAN NATIONAL FIRE HOSE CONNECTION SCREW THREADS" NST/NH HOSE THREADS. B.FIRE HYDRANTS ARE INSTALLED AT CERTAIN ELEVATIONS. ANY GRADE CHANGE NEAR ANY FIRE HYDRANT, WHICH IMPEDES ITS OPERATION, SHALL BECOME THE RESPONSIBILITY OF THE UTILITY CONTRACTOR FOR CORRECTION. CORRECTIONS WILL BE MONITORED BY THE HRW UTILITY CONSTRUCTION INSPECTOR AND THE HARNETT COUNTY FIRE MARSHAL.
- C.THE PROFESSIONAL ENGINEER (PE) SHALL OBTAIN AND PROVIDE THE NCDEQ "AUTHORIZATION TO CONSTRUCT" PERMIT TO THE UTILITY CONTRACTOR BEFORE THE CONSTRUCTION OF THE WATER LINE SHALL BEGIN. THE UTILITY CONTRACTOR MUST POST A COPY OF THE NCDEQ "AUTHORIZATION TO CONSTRUCT" PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) ON SITE PRIOR TO THE START OF CONSTRUCTION. THE PERMIT MUST BE MAINTAINED ON SITE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OF THE PROPOSED WATER LINES THAT WILL SERVE THIS PROJECT.
- D. THE UTILITY CONTRACTOR SHALL NOTIFY HARNETT REGIONAL WATER (HRW) AND THE PROFESSIONAL ENGINEER (PE) AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING. THE UTILITY CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH MR. CHAD EVERETTE. HRW UTILITY CONSTRUCTION INSPECTOR AT LEAST TWO (2) DAYS BEFORE CONSTRUCTION WILL BEGIN AND THE UTILITY CONTRACTOR MUST COORDINATE WITH HRW FOR REGULAR INSPECTION VISITATIONS AND ACCEPTANCE OF THE WATER SYSTEM(S). CONSTRUCTION WORK SHALL BE PERFORMED ONLY DURING THE NORMAL WORKING HOURS OF HRW WHICH IS 8:00 AM - 5:00 PM MONDAY THROUGH FRIDAY. HOLIDAY AND WEEKEND WORK IS NOT PERMITTED BY HRW.
- E. THE PROFESSIONAL ENGINEER (PE) SHALL PROVIDE HRW AND THE UTILITY CONTRACTOR WITH A SET OF NCDEQ APPROVED PLANS MARKED "RELEASED FOR CONSTRUCTION" AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING. THE REGISTERED LAND SURVEYOR (RLS) SHOULD STAKE OUT ALL LOT CORNERS AND THE GRADE STAKES FOR THE PROPOSED FINISH GRADE FOR EACH STREET BEFORE THE UTILITY CONTRACTOR BEGINS CONSTRUCTION OF THE WATER LINE(S). THE GRADE STAKES SHOULD BE SET WITH A CONSISTENT OFFSET FROM THE STREET CENTERLINE SO AS NOT TO INTERFERE WITH THE STREET GRADING AND UTILITY CONSTRUCTION.
- F. THE UTILITY CONTRACTOR SHALL PROVIDE THE HRW UTILITY CONSTRUCTION INSPECTOR WITH MATERIAL SUBMITTALS AND SHOP DRAWINGS FOR ALL PROJECT MATERIALS PRIOR TO THE CONSTRUCTION OF ANY WATER LINE EXTENSION(S), AND ASSOCIATED WATER SERVICES IN HARNETT COUNTY. THE MATERIALS TO BE USED ON THE PROJECT MUST MEET THE ESTABLISHED SPECIFICATIONS OF HRW AND BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION. ALL SUBSTANDARD MATERIALS OR MATERIALS NOT APPROVED FOR USE IN HARNETT COUNTY FOUND ON THE PROJECT SITE MUST BE REMOVED IMMEDIATELY WHEN NOTIFIED BY THE HRW UTILITY CONSTRUCTION INSPECTOR.
- G.THE WATER MAIN(S), FIRE HYDRANTS, SERVICE LINES, METER SETTERS AND ALL ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN STRICT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HARNETT REGIONAL WATER (HRW). THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE NEWLY INSTALLED WATER MAIN(S), WATER SERVICE LINES AND ALL ASSOCIATED METER SETTERS AND METER BOXES FOR OTHER UTILITY COMPANIES AND THEIR CONTRACTORS UNTIL THE NEW WATER MAIN(S) HAVE BEEN APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION (NCDEQ, DEH, PWS) AND ACCEPTED BY HRW.
- H. PRIOR TO ACCEPTANCE, ALL SERVICES WILL BE INSPECTED TO ENSURE THAT THEY ARE INSTALLED AT THE PROPER DEPTH. ALL METER BOXES MUST BE FLUSH WITH THE GROUND LEVEL AT FINISH GRADE AND THE METER SETTERS MUST BE A MINIMUM OF 8" BELOW THE METER BOX LID. METER SETTERS SHALL BE CENTERED IN THE METER BOX AND SUPPORTED BY BRICK, BLOCK OR STONE.
- I. THE UTILITY CONTRACTOR SHALL PROVIDE THE PROFESSIONAL ENGINEER (PE) AND HRW UTILITY CONSTRUCTION INSPECTOR WITH A SET OF RED LINE DRAWINGS IDENTIFYING THE COMPLETE WATER SYSTEM INSTALLED FOR EACH PROJECT. THE RED LINE DRAWINGS SHOULD IDENTIFY THE MATERIALS, PIPE SIZES AND APPROXIMATE DEPTHS OF THE WATER LINES AS WELL AS THE GATE VALVES, FIRE HYDRANTS, METER SETTERS, BLOW OFF ASSEMBLIES AND ALL ASSOCIATED APPURTENANCES FOR ALL WATER LINE(S) CONSTRUCTED IN HARNETT COUNTY. THE RED LINE DRAWINGS SHOULD CLEARLY IDENTIFY ANY DEVIATIONS FROM THE NCDEQ APPROVED PLANS. ALL CHANGE ORDERS MUST BE APPROVED BY HRW AND THE PROFESSIONAL ENGINEER (PE) IN WRITING AND PROPERLY DOCUMENTED IN THE RED LINE FIELD DRAWINGS.
- J. POTABLE WATER MAINS CROSSING OTHER UTILITIES AND NON-POTABLE WATER LINES (SANITARY SEWER, STORM SEWER, RCP, ETC.) SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN THE POTABLE WATER MAIN AND ALL OTHER UTILITIES. NCDOT REQUIRES THE NEW WATER MAINS TO BE INSTALLED UNDER THE STORM WATER LINES. THE POTABLE WATER MAIN SHALL BE INSTALLED WITH TWENTY-FOUR (24") INCHES OF VERTICAL SEPARATION AND WITH DUCTILE IRON PIPE WHEN DESIGNED TO BE PLACED UNDER A NON- POTABLE WATER LINE SUCH AS SANITARY SEWER OR STORM SEWER LINES. IF THESE SEPARATIONS CANNOT BE MAINTAINED THEN THE WATER MAIN SHALL BE INSTALLED WITH DUCTILE IRON PIPE. BOTH THE POTABLE WATER MAIN AND THE NON-POTABLE WATER LINE MUST BE CAST IRON OR DUCTILE IRON PIPE (DIP) IF THE STATE MINIMUM SEPARATIONS CANNOT BE MAINTAINED. THE DUCTILE IRON PIPE MUST BE LAID SO THE MECHANICAL JOINTS ARE AT LEAST (10') FEET FROM THE POINT WHERE THE POTABLE WATER MAIN CROSSES THE NON-POTABLE WATER LINE.
- K.POTABLE WATER MAINS INSTALLED PARALLEL TO NON-POTABLE WATER LINES (SANITARY SEWER, STORM SEWER, RCP, ETC.) SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF TEN (10') FEET BETWEEN THE POTABLE WATER MAIN AND SANITARY SEWER MAINS, SEWER LATERALS AND SERVICES. THE HORIZONTAL SEPARATION BETWEEN THE POTABLE WATER MAIN AND ANY OTHER UTILITY OR STORM SEWER SHALL NOT BE LESS THAN FIVE (5') FEET. THE POTABLE WATER MAIN MUST BE DUCTILE IRON PIPE IF THIS HORIZONTAL SEPARATION OF TEN (10') FEET CANNOT BE MAINTAINED. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST TEN (10') FEET BEYOND THE POINT WHERE THE MINIMUM REQUIRED HORIZONTAL SEPARATION OF TEN (10') FEET CAN BE RE-ESTABLISHED.
- L.METER SETTERS SHALL BE INSTALLED IN PAIRS ON EVERY OTHER LOT LINE WHERE POSSIBLE TO LEAVE ADEQUATE SPACE FOR OTHER UTILITIES TO BE INSTALLED AT A LATER TIME. THE METER SETTERS SHALL BE INSTALLED AT LEAST ONE (1') FOOT INSIDE THE RIGHT-OF-WAY AND AT LEAST THREE (3') TO FIVE (5') FEET FROM THE PROPERTY LINE BETWEEN THE LOTS.
- M. HRW REQUIRES THAT METER BOXES FOR 34" SERVICES SHALL BE 12" WIDE X 17" LONG ABS PLASTIC BOXES AT LEAST 18" IN HEIGHT WITH CAST IRON LIDS/COVERS. METER BOXES FOR 1" SERVICES SHALL BE 17" WIDE X 21" LONG ABS PLASTIC BOXES AT LEAST 18" IN HEIGHT WITH PLASTIC LIDS AND CAST IRON FLIP COVERS IN THE CENTER OF THE LIDS. METER BOXES FOR 2" SERVICES SHALL BE 20" WIDE X 32" LONG ABS PLASTIC BOXES AT LEAST 20" IN HEIGHT WITH PLASTIC LIDS AND CAST IRON FLIP COVERS IN THE CENTER OF THE LIDS.
- N. MASTER METERS MUST BE INSTALLED IN CONCRETE VAULTS SIZED FOR THE METER ASSEMBLY AND ASSOCIATED APPURTENANCES SO AS TO PROVIDE AT LEAST EIGHTEEN (18") INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE CONCRETE VAULT AND THE BOTTOM OF THE METER SETTER. THE MASTER METER MUST BE PROVIDED TEST PORTS IF THE METER IS NOT EQUIPPED WITH TEST PORTS FROM THE MANUFACTURER IN ACCORDANCE WITH THE HRW ESTABLISHED STANDARD SPECIFICATIONS AND DETAILS. DUCTILE IRON PIPE MUST BE USED FOR THE MASTER METER VAULT PIPING AND VALVE VAULT PIPING. THE UTILITY CONTRACTOR MUST PROVIDE SHOP DRAWINGS FOR THE METER VAULTS TO HRW PRIOR TO ORDERING THE CONCRETE VAULTS.
- 0. THE UTILITY CONTRACTOR WILL INSTALL POLYETHYLENE SDR-9 WATER SERVICE LINES THAT CROSS UNDER THE PAVEMENT INSIDE A SCHEDULE 40 PVC CONDUIT TO ALLOW FOR REMOVAL AND REPLACEMENT IN THE FUTURE. TWO (2) INDEPENDENT 34" WATER SERVICE LINES MAY BE INSTALLED INSIDE ONE (1) - TWO (2") INCH SCHEDULE 40 PVC CONDUIT OR TWO (2) INDEPENDENT 1" WATER SERVICE LINES MAY BE INSTALLED INSIDE ONE

(1) - THREE (3") INCH SCHEDULE 40 PVC CONDUIT, BUT EACH WATER SERVICE SHALL BÉ TAPPED DIRECTLÝ TO THE WATER MAIN. SPLIT SERVICES ARE NOT ALLOWED BY HRW. IF

SIDEWALKS ARE PROPOSED, THE CONDUIT MUST EXTEND PAST THE SIDEWALK. P.THE WATER MAIN(S), FIRE HYDRANTS, GATE VALVES, SERVICE LINES, METER SETTERS AND ASSOCIATED APPURTENANCES MUST BE RATED FOR 200 PSI AND HYDROSTATICALLY PRESSURE TESTED TO 200 PSI. THE HYDROSTATIC PRESSURE TEST(S) MUST BE WITNESSED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE UTILITY CONTRACTOR MUST NOTIFY HRW WHEN THEY ARE READY TO BEGIN FILLING IN LINES AND COORDINATE WITH HARNETT REGIONAL WATER TO WITNESS ALL PRESSURE TESTING.

- R.ALL WATER MAINS WILL BE CONSTRUCTED WITH SDR-21 PVC PIPE OR CLASS 50 DUCTILE IRON
- INSPECTOR AND TESTED IN THE HRW LABORATORY.
- PIPE USED FOR WATER MAINS IN HARNETT COUNTY.
- PIPE BEFORE BACKFILLING.
- AND PROPERLY DOCUMENTED IN THE RED LINE FIELD DRAWINGS.
- GRADING AND STREET CONSTRUCTION.
- POWER, FIBER OPTIC,
- AS-BUILT RECORD DRAWINGS SUBMITTED TO HRW.
- PLACE TO PREVENT EROSION ISSUES ON SITE.

Q. THE UTILITY CONTRACTOR SHALL CONDUCT A PNEUMATIC PRESSURE TEST USING COMPRESSED AIR OR OTHER INERT GAS ON THE STAINLESS STEEL TAPPING SLEEVE(S) PRIOR TO MAKING THE TAP ON THE EXISTING WATER MAIN. THIS PNEUMATIC PRESSURE TEST MUST BE WITNESSED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE UTILITY CONTRACTOR SHALL USE ROMAC BRAND STAINLESS STEEL TAPPING SLEEVE(S) OR APPROVED EQUAL FOR ALL TAPS MADE IN HARNETT COUNTY. ALL NEW WATER LINE EXTENSIONS MUST BEGIN WITH A RESILIENT WEDGE TYPE GATE VALVE SIZED EQUAL TO THE DIAMETER OF THE NEW WATER LINE EXTENSION IN ORDER TO PROVIDE A MEANS OF ISOLATION BETWEEN HARNETT REGIONAL WATER'S EXISTING WATER MAINS AND THE NEW WATER LINE EXTENSIONS UNDER CONSTRUCTION.

PIPE RATED FOR AT LEAST 200 PSI OR GREATER. ALL PIPES MUST BE PROTECTED DURING LOADING, TRANSPORT, UNLOADING, STAGING, AND INSTALLATION. PVC PIPE MUST BE PROTECTED FROM EXTENDED EXPOSURE TO SUNLIGHT PRIOR TO INSTALLATION. S.ALL WATER MAINS WILL BE FLUSHED AND DISINFECTED IN STRICT ACCORDANCE WITH THE

STANDARD SPECIFICATIONS OF THE HARNETT REGIONAL WATER. ALL WATER SAMPLES COLLECTED FOR BACTERIA TESTING WILL BE COLLECTED BY THE HRW UTILITY CONSTRUCTION

T. ALL FITTINGS LARGER THAN TWO (2") INCHES DIAMETER SHALL BE DUCTILE IRON. HRW REQUIRES THAT MECHANICAL JOINTS BE ASSEMBLED WITH GRIP RINGS AS "MEGALUG" FITTINGS ARE NOT APPROVED BY HARNETT REGIONAL WATER FOR PIPE SIZES SMALLER THAN TWELVE INCHES (12") DIAMETER. PVC PIPE USED FOR WATER MAINS SHALL BE CONNECTED BY SLIP JOINT OR MECHANICAL JOINT WITH GRIP RINGS. GLUED PIPE JOINTS ARE NOT ALLOWED ON PVC

HRW REQUIRES THAT THE UTILITY CONTRACTOR INSTALL TRACER WIRE IN THE TRENCH WITH ALL WATER LINES. THE TRACER WIRE SHALL BE 12 GA. INSULATED, SOLID COPPER CONDUCTOR AND IT SHALL BE TERMINATED AT THE TOP OF THE VALVE BOXES OR MANHOLES. NO SPLICED WIRE CONNECTIONS SHALL BE MADE UNDERGROUND ON TRACER WIRE INSTALLED IN HARNETT COUNTY. THE TRACER WIRE MAY BE SECURED WITH DUCT TAPE TO THE TOP OF THE

V.THE UTILITY CONTRACTOR WILL PROVIDE PROFESSIONAL ENGINEER (PE) AND THE HRW UTILITY CONSTRUCTION INSPECTOR WITH A SET OF RED LINE FIELD DRAWINGS TO IDENTIFY THE INSTALLED LOCATIONS OF THE WATER LINE(S) AND ALL ASSOCIATED SERVICES. ALL CHANGE ORDERS MUST BE PRE-APPROVED BY HRW AND THE PROFESSIONAL ENGINEER (PE) IN WRITING

W. THE UTILITY CONTRACTOR SHALL SPOT DIG TO EXPOSE EACH UTILITY PIPE OR LINE WHICH MAY CONFLICT WITH CONSTRUCTION OF PROPOSED WATER LINE EXTENSIONS WELL IN ADVANCE TO VERIFY LOCATIONS OF THE EXISTING UTILITIES. THE UTILITY CONTRACTOR SHALL PROVIDE BOTH HORIZONTAL AND VERTICAL CLEARANCES TO THE PROFESSIONAL ENGINEER (PE) TO ALLOW THE PE TO ADJUST THE WATER LINE DESIGN IN ORDER TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES, PIPES, WIRES, CABLES, SIGNS AND/OR UTILITIES INCLUDING SERVICES IN ACCORDANCE WITH THE UTILITY OWNER REQUIREMENTS DURING WATER LINE INSTALLATION,

X.PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN ESTABLISHED UTILITY EASEMENTS OR NCDOT RIGHT-OF-WAYS THE UTILITY CONTRACTOR IS REQUIRED TO HAVE A SIGNED NCDOT ENCROACHMENT AGREEMENT POSTED ON SITE AND NOTIFY ALL CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH G.S. 87-102. THE UTILITY CONTRACTOR MUST CALL THE NC ONE CALL CENTER AT 811 OR (800) 632-4949 TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. EXISTING UTILITIES SHOWN IN THESE PLANS ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED OR VERIFIED BY THE P.E. (I.E. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL

NATURAL GAS, ETC.). THE UTILITY CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ANY AND ALL DAMAGES TO THE SATISFACTION OF THE RELATED UTILITY COMPANY.

Y.THE UTILITY CONTRACTOR SHALL PROVIDE HRW WITH AT LEAST ONE (1) FIRE HYDRANT WRENCH AND ONE (1) BREAK-AWAY FLANGE KIT FOR EVERY SUBDIVISION WITH FIRE HYDRANTS DEVELOPED IN HARNETT COUNTY. THESE ITEMS MUST BE PROVIDED TO HRW BEFORE THE FINAL INSPECTION WILL BE SCHEDULED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. IN ADDITION, THE UTILITY CONTRACTOR SHALL INSTALL A 4" X 4" CONCRETE VALVE MARKER AT THE EDGE OF THE RIGHT-OF-WAY TO IDENTIFY THE LOCATION OF EACH GATE VALVE INSTALLED IN THE NEW WATER SYSTEM WITH THE EXCEPTION OF THE FIRE HYDRANT ISOLATION VALVES. THE CONTRACTOR SHALL MEASURE THE DISTANCE FROM THE CENTER OF THE CONCRETE MARKER TO THE CENTER OF THE VALVE BOX. THIS DISTANCE (IN LINEAR FEET) SHALL BE STAMPED ON THE BRASS PLATE LOCATED ON THE TOP OF THE CONCRETE VALVE MARKER. IN LIEU OF INSTALLING THE CONCRETE VALVE MARKERS, THE UTILITY CONTRACTOR MAY PROVIDE AT LEAST TWO MEASUREMENTS FROM TWO INDEPENDENT PERMANENT ABOVE GROUND STRUCTURES TO THE PROFESSIONAL ENGINEER (PE) IN THE RED LINE DRAWINGS TO IDENTIFY THE VALVE LOCATIONS. THE PROFESSIONAL ENGINEER (PE) MUST INCLUDE THESE MEASUREMENTS IN THE

Z.THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO LEAKAGE DAMAGE FROM POOR WORKMANSHIP DURING THE ONE

(1) YEAR WARRANTY PERIOD ONCE THE WATER SYSTEM IMPROVEMENTS HAVE BEEN ACCEPTED BY HARNETT REGIONAL WATER. HARNETT REGIONAL WATER WILL PROVIDE MAINTENANCE AND REPAIRS WHEN REQUESTED AND BILL THE DEVELOPER AND/OR UTILITY CONTRACTOR IF NECESSARY DUE TO LACK OF RESPONSE WITHIN 48 HOURS OF NOTIFICATION OF WARRANTY WORK. THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO DAMAGES RESULTING FROM FAILURE TO LOCATE THE NEW WATER LINES AND ASSOCIATED APPURTENANCES FOR OTHER UTILITIES AND THEIR CONTRACTORS UNTIL THE WATER LINES HAVE BEEN APPROVED BY NCDEQ AND ACCEPTED BY HRW. THE FINAL INSPECTION OF WATER SYSTEM IMPROVEMENTS CANNOT BE SCHEDULED WITH HRW UNTIL THE STREETS HAVE BEEN PAVED; THE RIGHTS-OF-WAY AND UTILITY EASEMENTS HAVE BEEN SEEDED AND STABILIZED WITH AN ADEQUATE STAND OF GRASS IN

AA THE ENGINEER OF RECORD IS RESPONSIBLE TO ENSURE THAT CONSTRUCTION IS, AT ALL TIMES, IN COMPLIANCE WITH ACCEPTED SANITARY ENGINEERING PRACTICES AND APPROVED PLANS AND SPECIFICATIONS. NO FIELD CHANGES TO THE APPROVED PLANS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY HRW. A COPY OF EACH ENGINEER'S FIELD REPORT IS TO BE SUBMITTED TO HRW AS EACH SUCH INSPECTION IS MADE ON SYSTEM IMPROVEMENTS OR TESTING IS PERFORMED BY THE CONTRACTOR. WATER AND SEWER INFRASTRUCTURE MUST PASS ALL TESTS REQUIRED BY HRW SPECIFICATIONS

AND THOSE OF ALL APPLICABLE REGULATORY AGENCIES. THESE TESTS INCLUDE, BUT ARE NOT LIMITED TO: AIR TEST, VACUUM TEST, MANDREL TEST, VISUAL TEST, PRESSURE TEST, BACTERIOLOGICAL TEST, ETC. A HRW INSPECTOR MUST BE PRESENT DURING TESTING AND ALL TEST RESULTS SHALL BE SUBMITTED TO HRW. ALL TESTS MUST BE SATISFIED BEFORE THE FINAL INSPECTION WILL BE SCHEDULED WITH THE HRW INSPECTOR. THE ENGINEER OF RECORD MUST REQUEST IN WRITING TO SCHEDULE THE FINAL INSPECTION ONCE ALL CONSTRUCTION IS COMPLETE. THE DEVELOPER'S ENGINEER OF RECORD AND THE HRW UTILITY CONSTRUCTION INSPECTOR SHALL PREPARE A WRITTEN PUNCH LIST OF ANY DEFECTS OR DEFICIENCIES NOTED DURING THE FINAL INSPECTION, SHOULD ANY EXIST. UPON COMPLETION OF THE PUNCH LIST, THE DEVELOPER'S ENGINEER OF RECORD WILL SCHEDULE ANOTHER INSPECTION. IN THE EVENT THE NUMBER OF INSPECTIONS PERFORMED BY THE HRW EXCEEDS TWO, ADDITIONAL FEES MAY BE ASSESSED TO THE DEVELOPER.



PROJECT NAME

HARPER'S MEADOW

PROJECT NOTES

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

SEE SHEETS

DATE RELEASED

MARCH 22, 2024



CONTROL POINT LIST					
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	609,133.262	2,060,013.076	218.86	4D DISK	
2	608,666.615	2,059,673.036	208.69	4D DISK	
3	609,544.627	2,060,263.865	226.78	4D DISK	



THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

e Land Partners\1896-Harper's Meadow\CIVIL 3D\DWG\1896-DESIGN.dwg • C4.1 UT • 3.22.2024 2:28:47 PM

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STRUCTURE	DIA	RIM EL		STRUCTURE IN		INVERT I	N INV O	UT
MH-1	4'	22	4.46				214.	50
MH-2	4'	220	0.97	MH-1		212.40	212.	30
MH-3	4'	218	3.95	MH-2 LOT 51		210.05 210.70	5 209.	95
	4,	01	0 11	MH-3		209.60		= 0
MH-4	4	21	9.11	LOT 47 &	48	210.25	5 209.	50
MH-5	4'	219	9.78	MH-4		209.20	209	.10
MH-6	5'	22	1.08	MH-5 MH-12		208.65 208.65	5 208.	55
MH_7	,	21	7.06	MH-6		206.85	5 206	75
	4	21.	7.90	LOT 42	2	207.50	200.	/3
MH-8	8'	21	7.89	MH-7		206.40)	
MH-9	4'	224	4.33				214.	35
MH-10	4'	22	2.85	LOT 74	-	216.15	5 215.	40
MH-11	4'	22	3.40	MH-9 MH-10		211.90 211.90	211.	80
MH-12	4'	219	9.63	MH-11		210.50	210.	40
	S	TOF	RM	STRUCTU	RF	TABI F		
STRUCTURE		FI	STD)UT
					219	29 (15")		
CI-3	223	.51		DI-4	219	.29 (15")	218.04	(18")
CI-5	223.	.17		CI-6	218	.47 (15")	218.47	(15")
CI-6	22.3	.93		CI-7	219	.03 (15")	219.03	(15")
CI_7	220.	86		,			210.17	(15")
	223.	00		OT 0	040	91 (04")	015.01	(70")
CI-9	220.	.96		01-8	216	.81 (24)	215.01	(30)
CI-10	219.	80		CI-9 CI-47	213.	.85 (30") .15 (15")	213.85	(30")
					213	58 (30")		
CI-11	219.	64		CI-10 CI-16	213.	.58 (18")	213.58	(30")
				DI-44	216	.03 (15″)		
CI-12	220.	.03		CI-11	213.	.30 (30")	213.30	(30")
CI-13	220	.91		CI-12	212	.15 (30")	212.00	(30")
CI-16	219.	64		DI-15	214	.97 (15")	214.72	(18")
CI-17	222.	.59		CI-35	217	.42 (18")	217.42	(18")
				CI-45	216	.23 (18")		· · ·
CI-18	221.	32		CI-25	216	.48 (15")	215.73	(24")
CI-19	220.	04		CI-46	214.	.59 (24")	214.59	(24")
CI-20	219.	29		CI-19	213.	.84 (24")	213.84	(24")
				CI-20	213	.61 (24")		(0,17)
CI-21	219.	24		CI-27	214	.36 (15")	213.61	(24)
CI-22	219.	42		CI-21	213.	.39 (24")	212.99	(30")
CI-23	219.	89		CI-22	212.	.78 (30")	212.68	(30")
CI-25	221.	32					216.62	(15")
CI-26	219	29					214 59	(15")
	210.			CI26	01 4	50 (15")	214 50	(15")
01-27	219.	20		01-20	<u> </u>		214.00	(10)
CI-28	218.	16					213.46	(15″)
CI-29	218.	16		CI-28	213	.33 (15")	213.33	(15")
CI-30	219.	28		CI-29	212	.78 (15")	212.78	(15")
01 70	017	66		J, TJ	<u> </u>		017.00	(10"
01-32	218.	бŊ			-	 -	213.90	(18.)
CI-33	218.	66		CI-32 CI-30	213 212	.75 (18") .45 (15")	212.20	(18")
CI- 35	222	40		CI-3	217	.89 (18")	217 80	(18")
	220.	тJ			21/	16 (70")	217.09	(,0)
CI-40	224.	79		лв−39 ЈВ−52	218 219	.10 (30°) .66 (15")	217.80	(36")
CI-45	222	.00		CI-17	216	.86 (18")	216.86	(18")
CI-46	220	72		CI-18	215	.20 (24")	215 20	· · · · · · · · · · · · · · · · · · ·
	220.	80			0.	\- ' /	215 70	<u>(1</u> =")
0-4/	219.	00		o =		05 (5-"	210.00	(10)
CI-48	220	.91		CI-13	211.	.85 (30")	211.50	(36")
CI-49	220.	04					215.24	(15")
DI-4	222.	23					219.85	(15")
DI-15	219.	70					215.25	(15")
DI-44	218.	80					216.20	(15")
FES-14	214	62		CI-48	211	.20 (36")		
FES- 24	214	22		CI-23	210	00 (30")		
	214.	 		0 77	~~~	SE (40")		
FES-34	213.	44		0-33	211	.oo (18°)		
FES-37	214.	28		RI-36	211.	.40 (30")		
FES-41	221.	02		CI-40	217.	.60 (36")		

JB-39 223.98 PO-38 219.40 (30") 218.02 (30")

OT-8 221.65

RI-36 216.65

217.90 (24")

212.50 (30")

	SEWER PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT
MH-1	MH-2	8"	317.74	0.66%	214.50	212.40
MH-2	MH-3	8"	232.79	0.97%	212.30	210.05
MH-3	MH-4	8"	55.18	0.63%	209.95	209.60
MH-4	MH-5	8"	48.65	0.62%	209.50	209.20
MH-5	MH-6	8"	85.20	0.53%	209.10	208.65
MH-6	MH-7	8"	334.36	0.51%	208.55	206.85
MH-7	MH-8	8"	62.56	0.56%	206.75	206.40
MH-9	MH-11	8"	124.00	1.98%	214.35	211.90
MH-10	MH-11	8"	72.89	4.80%	215.40	211.90
MH-11	MH-12	8"	252.50	0.51%	211.80	210.50
MH-12	MH-6	8"	252.50	0.69%	210.40	208.65

	STORM PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT
		15"	12.70'	3.15%	223.70	223.30
CI-3	CI-35	18"	28.76'	0.52%	218.04	217.89
CI-5	CI-3	15"	34.56'	0.51%	218.47	218.29
CI-6	CI-5	15"	101.54'	0.55%	219.03	218.47
CI-7	CI-6	15"	26.90'	0.52%	219.17	219.03
CI-9	CI-10	30"	85.50'	1.36%	215.01	213.85
CI-10	CI-11	30"	34.50'	0.77%	213.85	213.58
CI-11	CI-12	30"	54.50'	0.51%	213.58	213.30
CI-12	CI-13	30"	225.50'	0.51%	213.30	212.15
CI-13	CI-48	30"	26.50'	0.57%	212.00	211.85
CI-16	CI-11	18"	26.50 '	0.53%	214.72	214.58
CI-17	CI-45	18"	65.10'	0.85%	217.42	216.86
CI-18	CI-46	24"	65.50 '	0.81%	215.73	215.20
CI-19	CI-20	24"	85.17'	0.88%	214.59	213.84
CI-20	CI-21	24"	24.94'	0.93%	213.84	213.61
CI-21	CI-22	24"	43.68'	0.50%	213.61	213.39
CI-22	CI-23	30"	41.55'	0.51%	212.99	212.78
CI-23	FES-24	30"	77.00'	0.88%	212.68	212.00
CI-25	CI-18	15"	26.50'	0.53%	216.62	216.48
CI-26	CI-27	15"	17.45'	0.53%	214.59	214.50
CI-27	CI-21	15"	26.50'	0.53%	214.50	214.36
CI-28	CI-29	15"	26.50'	0.50%	213.46	213.33
CI-29	CI-30	15"	110.00'	0.50%	213.33	212.78
CI-30	CI-33	15"	68.81'	0.48%	212.78	212.45
CI-32	CI-33	18"	22.50'	0.67%	213.90	213.75
CI-33	FES-34	18"	106.00'	0.52%	212.20	211.65
CI-35	CI-17	18"	94.90'	0.50%	217.89	217.42
CI-40	FES-41	36"	44.00'	0.45%	217.80	217.60
CI-45	CI-18	18"	74.50'	0.85%	216.86	216.23
CI-46	CI-19	24"	74.50'	0.81%	215.20	214.59
CI-47	CI-10	15"	26.50'	0.57%	215.30	215.15
CI-48	FES-14	36"	60.00'	0.50%	211.50	211.20
CI-49	CI-30	15"	74.50'	0.75%	215.24	214.68
CI-50	CI-53	15"	72.29'	0.82%	221.76	221.16
CI-51	JB-52	15"	44.00'	0.50%	220.57	220.35
CI-53	CI-51	15"	72.29'	0.82%	221.16	220.57
DI-4	CI-3	15"	28.19'	1.99%	219.85	219.29
DI-15	CI-16	15"	50.29'	0.56%	215.25	214.97
DI-44	CI-11	15"	16.75'	1.01%	216.20	216.03
JB-39	CI-40	30"	41.74'	-0.34%	218.02	218.16
JB-52	CI-40	15"	138.61'	0.50%	220.35	219.66
OT-8	CI-9	24"	111.75'	0.97%	217.90	216.81
P0-38	JB-39	30"	5.00'	2.00%	219.50	219.40
RI-36	FES-37	30"	56.61'	1.94%	212.50	211.40

PROJECT NAME

HARPER'S MEADOW

STORM & SEWER STRUCTURE DATA

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

HORIZONTAL: 1"=40'

DATE RELEASED

MARCH 22, 2024

SHEET NUMBER

C-4.1

Land Partners\1896-Harper's Meadow\CIVIL 3D\DWG\1896-DESIGN.dwg • C5.0 PRO • 3.22.2024 2:34:34 PM

HARPERS MEADOW STREET

50' R/W (PUBLIC STREET) ROADWAY PROFILE 9+50 TO 18+50

DRAWING SCALE

HORIZONTAL: 1"=40' VERTICAL: 1"=4'

DATE RELEASED

MARCH 22, 2024

C-5.(

ROSE LANDING STREET

50' R/W (PUBLIC STREET) ROADWAY PROFILE 9+50 TO 19+00

HARPER'S MEADOW

ROSE LANDING STREET PROFILE

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

HORIZONTAL: 1"=40' VERTICAL: 1"=4'

DATE RELEASED

MARCH 22, 2024

SHEET NUMBER

C-5.1

WET POND #1

STORM DRAIN 9+50 TO 13+50

4DSite solutions civil engineering Land surveying 409 Chicago Drive, Sulte 112, Fayetteville, NC 28306 office 910-426-5777_license number C-2354 www.4Dsitesolutions.com
SEAD SEAD OZTA52 GINE OZTA52 GINE OZTA52 OZT
ISSUED FOR CONSTRUCTION
PROJECT NAME HARPER'S MEADOW
BRAYDENS WAY & STORM PROFILES
CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

HORIZONTAL: 1"=40' VERTICAL: 1"=4'

DATE RELEASED

MARCH 22, 2024

NC GRID NAD 83 (2011) DI-15 TO CI-16

STORM DRAIN 9+50 TO 11+00

SHEET NUMBER

(IN FEET) 1 inch = 40 ft.

C-5.4

NORTH MAIN STREET - NC HWY 210 WIDENING

60' R/W (PUBLIC STREET) ROADWAY PROFILE 11+50 TO 22+50

STREET - NC HWY 210 PROFILE

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

HORIZONTAL: 1"=40' VERTICAL: 1"=4'

DATE RELEASED

MARCH 22, 2024

REQUIREMENTS

EMBANKMENT BEFORE THE AREA IS CLEARED. 8. INSTALL POROUS BAFFLES AS SPECIFIED 9 AVOID STEEP SIDE SLOPES. AND FENCE AND MARK BASINS WITH WARNING NTS GNS IF TRESPASSING IS LIKELY. FOLLOW ALL STATE AND LOCAL **TEMPORARY SEDIMENT BASIN**

delegated authority havin nay not apply depending	th the Erosion and Se g jurisdiction. All deta on site conditions and	diment Control plan approved by the ails and specifications shown on this sheet d the delegated authority having jurisdiction.	 A. Collect all spent fluids, store in separate containers and properly dispos hazardous waste (recycle when possible). 5. Remove leaking vehicles and construction equipment from service until has been corrected.
SECTION E: GROUND STA	BILIZATION	11	6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petrole
ĸ	Stabilize within thi		to a recycling or disposal center that handles these materials.
Site Area Description	many calendar days after ceasing	Timeframe variations	LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None	 Never bury or burn waste. Place litter and debris in approved waste con Provide a sufficient number and size of waste containers (e.g dumpster, receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets an
(b) High Quality Water (HQW) Zones	7	None	 waters unless no other alternatives are reasonably available. 4. Locate waste containers on areas that do not receive substantial amount
c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are	 from upland areas and does not drain directly to a storm drain, stream o 5. Cover waste containers at the end of each workday and before storm ev provide secondary containment. Repair or replace damaged waste cont
) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HOW	 6. Anchor all lightweight items in waste containers during times of high wir 7. Empty waste containers as needed to prevent overflow. Clean up immer containers overflow. 8. Dispose waste off-site at an approved disposal facility.
,		Zones -10 days for Falls Lake Watershed	9. On business days, clean up and dispose of waste in designated waste cor
e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope	 PAINT AND OTHER LIQUID WASTE 1. Do not dump paint and other liquid waste into storm drains, streams or 2. Locate paint washouts at least 50 feet away from storm drain inlets and waters unless no other alternatives are reasonably available.
round stabilization shall round stabilization shall racticable but in no case ctivity. Temporary grour urface stable against acc	to cessation of constru- be converted to perm longer than 90 calence nd stabilization shall b elerated erosion until	action activities, any areas with temporary nanent ground stabilization as soon as dar days after the last land disturbing be maintained in a manner to render the permanent ground stabilization is achieved.	 d. Containment must be labeled, sized and placed appropriately for the ne 5. Prevent the discharge of soaps, solvents, detergents and other liquid wa construction sites.
GROUND STABILIZATION Stabilize the ground suffic sechniques in the table be Temporary Stal	SPECIFICATION iently so that rain wil elow: bilization	I not dislodge the soil. Use one of the Permanent Stabilization	PORTABLE TOILETS 1. Install portable toilets on level ground, at least 50 feet away from storm streams or wetlands unless there is no alternative reasonably available. offset is not attainable, provide relocation of portable toilet behind silt f on a gravel pad and surround with sand bags.
 Temporary grass seed covother mulches and tackifi Hydroseeding Rolled erosion control prowithout temporary grass Appropriately applied strained strai	vered with straw or ers oducts with or seed aw or other mulch	Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered	 Provide staking or anchoring of portable toilets during periods of high wind foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked rultilize a licensed sanitary waste hauler to remove leaking portable toilet with properly operating unit.
Plastic sheeting	worother match	with mulch	
1	•	Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls	EARTHEN STOCKPILE MANAGEMENT 1. Show stockpile locations on plans. Locate earthen-material stockpile are 50 feet away from storm drain inlets, sediment basins, perimeter sediment
	•	Rolled erosion control products with grass seed	and surface waters unless it can be shown no other alternatives are reas available.
POLYACRYLAMIDES (PAN 1. Select flocculants th construction, select 2. Apply flocculants at 3. Apply flocculants at PAMS/Flocculants at	• IS) AND FLOCCULANT that are appropriate for ting from the <i>NC DWR</i> to r before the inlets to the concentrations so and in accordance with	Rolled erosion control products with grass seed TS or the soils being exposed during <i>List of Approved PAMS/Flocculants</i> . to Erosion and Sediment Control Measures. pecified in the <i>NC DWR List of Approved</i> h the manufacturer's instructions.	 and surface waters unless it can be shown no other alternatives are rea: available. Protect stockpile with silt fence installed along toe of slope with a minin five feet from the toe of stockpile. Provide stable stone access point when feasible. Stabilize stockpile within the timeframes provided on this sheet and in a with the approved plan and any additional requirements. Soil stabilizati as vegetative, physical or chemical coverage techniques that will restrain erosion on disturbed soils for temporary or permanent control needs.
 POLYACRYLAMIDES (PAN Select flocculants the construction, select Apply flocculants at PAMS/Flocculants at PAMS/Flocculants at PAMS/Flocculants at Store flocculants in or surrounded by set 	• IS) AND FLOCCULANT that are appropriate for ting from the <i>NC DWR</i> to r before the inlets to the concentrations so and in accordance with the for containment of leak-proof containment	Rolled erosion control products with grass seed TS or the soils being exposed during <i>List of Approved PAMS/Flocculants</i> . to Erosion and Sediment Control Measures. pecified in the <i>NC DWR List of Approved</i> h the manufacturer's instructions. Treated Stormwater before discharging to that are kept under storm-resistant cover it structures.	 and surface waters unless it can be shown no other alternatives are rea: available. Protect stockpile with silt fence installed along toe of slope with a minim five feet from the toe of stockpile. Provide stable stone access point when feasible. Stabilize stockpile within the timeframes provided on this sheet and in a with the approved plan and any additional requirements. Soil stabilizati as vegetative, physical or chemical coverage techniques that will restrain erosion on disturbed soils for temporary or permanent control needs.

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: Description, evidence and date of corrective actions taken, and Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

- In addition to the E&SC Plan documents above, the following items shall be kept on the and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

NORTH CAROLINA Environmental Quality

LS HANDLING

EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING 1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

- (b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence Reporting Timeframes (After Discovery) and Other Requ				eporting Timeframes (After Discovery) and Other Requirements	
		(a) Visible sediment	٠	Within 24 hours, an oral or electronic notification.	
		deposition in a	•	Within 7 calendar days, a report that contains a description of the	
stream or wetland			sediment and actions taken to address the cause of the deposition.		
				Division staff may waive the requirement for a written report on a	
				case-by-case basis.	
			•	If the stream is named on the NC 303(d) list as impaired for sediment-	
				related causes, the permittee may be required to perform additional	
				monitoring, inspections or apply more stringent practices if staff	
				determine that additional requirements are needed to assure compliance	
				with the federal or state impaired-waters conditions.	
		(b) Oil spills and	•	Within 24 hours, an oral or electronic notification. The notification	
		release of		shall include information about the date, time, nature, volume and	
	hazardous location of the spill or release.		location of the spill or release.		
		substances per Item			
		1(b)-(c) above			
		(c) Anticipated	•	A report at least ten days before the date of the bypass, if possible.	
		bypasses [40 CFR		The report shall include an evaluation of the anticipated quality and	
		122.41(m)(3)]		effect of the bypass.	
		(d) Unanticipated	•	Within 24 hours, an oral or electronic notification.	
		bypasses [40 CFR	•	Within 7 calendar days, a report that includes an evaluation of the	
		122.41(m)(3)]		quality and effect of the bypass.	
		(e) Noncompliance	•	Within 24 hours, an oral or electronic notification.	
		with the conditions	•	Within 7 calendar days, a report that contains a description of the	
		of this permit that		noncompliance, and its causes; the period of noncompliance,	
		may endanger		including exact dates and times, and if the noncompliance has not	
		health or the		been corrected, the anticipated time noncompliance is expected to	
		environment[40		continue; and steps taken or planned to reduce, eliminate, and	
		CFR 122.41(I)(7)]		prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).	

• Division staff may waive the requirement for a written report on a case-by-case basis.

Outdoor Lighting

Mitchell LED Series

Mitchell Top Hat LED

The energy-efficient fixtures in the Mitchell LED Series enhance the character and prestige of streetscapes and parking lots, as well as pedestrian areas and greenways. These fixtures provide safety and security in commercial settings and complement any neighborhood with their classic, elegant design.

LED (Light Emitting Diode)	50 watts,
Mounting heights	12', 13',
Color	Black
Poles	Fiberglass Smooth re Style V Style VI Style VII

For additional information, visit us at duke-energy.com/OutdoorLighting

or call us toll free at 866.769.6417

©2015 Duke Energy Corporation 150282 2/15

Outdoor Lighting

Mitchell LED Series

Light source: LED (white)

Lumens: 4,332 – 5,678 (fixture dependent) Color temperature: 4,000K

Wattage Light Pattern IESNA Backlight – Uplight – Glare (BUG) Rating Mitchell LED B3-U4-G3 50 IESNA Type V 50 IESNA Type V B3-U3-G3 Mitchell Top Hat LED 75 IESNA Type III B1-U0-G1 Mitchell Open LED IESNA Type V B3-U4-G3 Mitchell LED with Ribs, Bands and Medallions 50 IESNA Type V B3-G3-U3 Mitchell Top Hat LED with Ribs, Bands and Medallions 50

Poles available:

Name	Mounting h
Smooth concrete	12', 16'
Fiberglass	16'
Style V	12', 16'
Style VI	12'
Style VII	13'

©2015 Duke Energy Corporation 151307 7/15

EFFECTIVE: 04/01/19

watts, 75 watts (*Mitchell Open*)

13', <mark>16'</mark> rglass oth round concrete

Color Black Black Black Black Black

REVISIONS ISSUED FOR CONSTRUCTION

PROJECT NAME

HARPER'S MEADOW

SITE & EROSION CONTROL DETAILS

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

CALEB
CALEB
SCOTT
1896
-

DRAWING SCALE

NOT TO SCALE

DATE RELEASED

MARCH 22, 2024

SHEET NUMBER

C-6.3

Land Partners\1896-Harper's Meadow\CIVIL 3D\DWG\1896-DES\GN dwg e C6.4 DET e 3.22.2024 2.22:14 PM

4D site
409 Chicago Drive, Suite 112, Fayetteville, NC 28306 office 910-426-6777 fax 910-426-5777 license number C-2354 www.4Dsitesolutions.com
CARO
027452 WGINEERONT
03-22-24
REVISIONS ISSUED FOR CONSTRUCTION
PROJECT NAME
HARPER'S
MEADOW
STORM DETAILS
PARTNERS, LLC
PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085
PROJECT INFORMATION
DESIGNED BY: CALEB
CHECKED BY:SCOTTPROJECT NUMBER:1896

DRAWING SCALE

NOT TO SCALE

DATE RELEASED

MARCH 22, 2024

C-6.4

e Land Partners\1896-Harper's Meadow\CIVIL 3D\DWG\1896-DESIGN.dwg • C6.5 DET • 3.22.2024 2:21:56 PM

TRS 1". IROUGHOUT. IROUGHOUT. IROUGHOUT. IRONOLITHIC POUR, 2" KEYWAY, OR TERS AS DIRECTED BY THE ENGINEER. IE BOTTOM SLAB. PE IS SET IN BASE SLAB OF BOX, ITANDARD NO. 840.00. TANDARD NO. 840.00. TE AND BRICK MASONRY QUANTITIES OF THE MANHOLE (I.E. DIAGONAL BARS IN TOP SLAB, ADDITIONAL VARIABLE ENING IN TOP SLAB.)	1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	
URE FROM TOP OF BOTTOM SLAB TO TOP #4 BAR	DRAWING FOR CTION BOX - MANHOLE) 3" PIPE	
BOXES S TOTAL QUANTITIES BOX AND SLABS DEDUCTIONS FOR ONE PIPE CU.YDS. WALL/, ET. OF HT. LBS. REINF CU.YDS, MIN."H" C.S. R.C. 0.185 22 0.750 0.015 0.024 0.204 24 0.902 0.023 0.036 0.222 30 1.065 0.033 0.049 0.259 40 1.434 0.059 0.085 0.296 51 1.860 0.092 0.127 0.333 64 2.341 0.132 0.178 0.370 77 2.878 0.180 0.243 0.407 111 3.623 0.235 0.317 0.444 126 4.283 0.297 0.401 0.481 145 5.090 0.367 0.495	Image: Standard Standard Image: StandardS	
TOP OF FILL	1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	
MATERIAL FOUNDATION TOP OF FILL O.D. H MIN. O.D O.D. H MIN. O.D UIT IN SUPERIAL O.D. H MIN. O.D O.D. H MIN. O.D MIN. O.D	ROADWAY STANDARD DRAWING FOR METHOD OF PIPE INSTALLATION FLEXIBLE PIPE	
IONING. ENCAPSULATE	SHEET 1 OF 3 300.01 NOIS	-
<u>inum Pipe</u> <u>tion **</u> <u>um Height of Cover (feet)</u> <u>14</u> <u>12</u> <u>10</u> <u>8</u> 155 218 281 344 123 174 224 275 102 144 187 228 87 123 160 195 76 108 139 171 67 95 123 151 60 85 111 136 50 71 92 113 60 78 96 <u>52 68 84</u> 46 50 74	1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTAT DIVISION OF HIGHWAN RALEIGH, N.C.	
50 62 51 41 ARCH PIPES REFER TO DTURERS SPECIFICATION. SPECIFICATIONS A A ALCULATED USING SPECIFICATIONS BIDE DRAIN PIPE ANDARD SPECIFICATIONS SPECIFICATIONS	ROADWAY STANDARD DRAWING FOR METHOD OF PIPE INSTALLATION FILL HEIGHT TABLES	
ALCULATED USING SPECIFICATIONS GIDE DRAIN PIPE ANDARD SPECIFICATIONS	SHEET 3 OF 3 300.01	

409 Chicago Drive, Sult office 910-426-6777 Tax 910-426-57	Site stices string land surveying e 112, Fayetteville, NC 28306 77 license number C-2354 www.4Dsitesolutions.com
OFESSION SEAL OTA52 COTT B O3-22	ROMUNIUM 24
REVISIONS	
ISSUED FOR CONS	STRUCTION
PROJECT NAME	
HARPER MEADOV	'S V
STORM DE	ETAILS
CLIENT	
TRIANGLE I PARTNERS,	LLC
PO Box 5548 Cary, North Carolina 2751 Phone: (704) 608-3085	2
PROJECT INFORMATIC	N
DESIGNED BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896
DRAWING SCALE	
NOT TO SC/	ALE

DATE RELEASED

MARCH 22, 2024

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DATE RELEASED

MARCH 22, 2024

SHEET NUMBER

C-6.7

PROJECT NAME

HARPER'S MEADOW

civil engineering | land surveyi

03-22-24

SUED FOR CONSTRUCTION

www.4Dsitesolutions.com

SEWER DETAILS

CLIENT

TRIANGLE LAND PARTNERS, LLC

PO Box 5548 Cary, North Carolina 27512 Phone: (704) 608-3085

PROJECT INFORMATION

DESIGNED BY:	CALEB
DRAWN BY:	CALEB
CHECKED BY:	SCOTT
PROJECT NUMBER:	1896

DRAWING SCALE

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DATE RELEASED

MARCH 22, 2024

SHEET NUMBER

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	PE	N
Item nu Service Quantity Quote n	mber / iumber	
Operati	ng Co	nditic
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Aug 24, 2023
Coastal Plains Engineering, P.A. 285 Locklear Rd P.O. Box 1117 Pembroke, NC 28372 Voice: 910-521-7213 ww.coastalplainseng.com
HARPERS MEADOW LIFT STATION LIFINGTON, NC 27546
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ARCHITECTS AND ENGINEERS ARE NOT LICENSED TO INTERPRET LANS DR GIVE ADVICE CONCERNING LANS DR LEGAL NATTERS. THE DIMER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE IF IT COMPLIES ADA AND OTHER LAWS.
Project Nd; 2023-1 Drawn By', VJ Checked By', CSL Date: 02-20- Revisions; Δ 8-24- Review
SHEET ND:

P	⊃1														
ROOI MOU FED NOTE	M NTING SU FROM U	IRFACE IILITY		VOL BUS NEU	TS 240 AMPS TRAL 1	/120V : 60 00%	2P 3	W			AIC 22,000 MAIN BKR LUGS STAN	60 IDARD			
		CIRCUIT	DESCRIPTION		L	OAD K		CKT #				N		LOAD	KVA
1	20/1	ELECTRI	CAL RACK WP	GFCI	0.	A .54	В	π 2	20/1	REMOTE	E TERMINAL			A 0.42	В
3 5 7	20/1 20/1 20/1 20/1	RECEPTA ELECTRI POLE LI PUMP S	ACLE CAL RACK LIG GHT TATION WPGFC	HTING	E	0.1 0.1	.03 .18	4 6 8	20/1 20/1 20/1 20/1	HOT BO BATTER BLOCK	DX RY CHARGER HEATER			1.5	0.18 1.5
9 11	20/1 20/1	SPACE SPACE				0	0	10 12	20/1 20/1	SPACE SPACE				0	0
	•									тот	AL CONNECT	ED KVA BY	PHASE	2.56	1.89
			CONN KVA	CALC KVA							CONN KVA	CALC KV	A		
LIGI REC	HTING	S	0.03 0.72	0.038 0.72	(125%) (50%>) 10)		CONT NONC	INUOUS CONTINUC	OUS	0.52 3.18	0.65 3.18	(125	5%))%)	
								TOTA BALA	L LOAD NCED LC	DAD		4.59 19.1 A			

P(\sum													
ROOM MOUN FED NOTE	I ITING SU FROM UT	JRF <i>A</i> TILIT	ACE TY		۲ ۲	VOLTS BUS AMI NEUTRAL	480V 3F PS 60 - NONE	⊃ 3W			AIC 22,000 MAIN BKR MLO LUGS STANDARD			
СКТ	СКТ					L	OAD KV	A	СКТ	СКТ		L	OAD KV	'A
#	BKR	CIRCUIT DESCRIPTION				Α	В	С	#	BKR	CIRCUIT DESCRIPTION	A	В	С
1	20/3	PU	IMP #1			2.11			2	20/3	PUMP #2	2.11	1	1
3							2.11		4				2.11	I
5	I.							2.11	6				9	2.11
										TO	TAL CONNECTED KVA BY PHASE	4.21	4.21	4.21
				CONN KVA	CALC K	VA					CALC KV	A		
LAR	GEST MO	TOR	2	6.32	1.58	(25	5%)		ΤΟΤΑ	L LOAD	14.2			
мот	ORS			12.6	12.6	(10	0%)		BALA	NCED 3-	-PHASE LOAD 17.1 A			

11		
of Record in writing prior to assigning wire numbers. Wire numbers shall not be duplicated.	(ix) All electrical and control panels shall have weatherproof identify attached with stainless steel screws, adhesive will not be acceptable	ing labels e.
For instrumentation wiring, the Contractor shall provide on the shop drawings, a schedule indicating the wire number, color code if applicable, origin and destination devices, and terminals.	 (x) All electrical conduits from wet well to control panel must be sealed rubber grommet system to prevent gas entry to control panel or pu enclosure. This only applies to conduit that enters the wet well are 	ed using a imp house ea.
Conductor insulation color-coding: (Tape for identification shall only be allowed on conductors larger than #6 AWG.)	(xi) No electrical junction boxes or splices are permitted in the wet wel	1.
480 Volt AC Power	(xii) All wires leaving the wet well shall be spliced inside an electrica box just outside the wet well (and properly labeled on both end continuing to the control box	l junction ls) before
) Phase A – Brown	continuing to the control box.	
i) Phase B – Orange	(xiji) All branch circuit panels shall have a typed index identifyin	g
ii) Phase C – Yellow	breakers. Spare breakers are to be labeled "spare."	0
v) Neutral – White		
120/208 Volt or 120/240 Volt Power	(xiv) The Owner shall be provided with one complete set of spare Conduit size, origin, destination, wire size and number of wires sha shown on the plans.	e fuses. all be
) Phase $A - Black$	(xy) Monitoring Points	
i) Phase B – Red		
ii) Phase C – Blue	TOWN OF LILLINGTON	
v) Neutral – White	BASIC TWO PUMP SEWAGE LIFT STATION MONITORING POINTS	
DC power	DATA DEFINITION CONTROL HOOKUP TYPE	
(a) Positive Lead – Red	DI CONTROL AC FOWER DRY CONTACT ON RELAY POWERED BY	
(b) Negative Lead – Black	FAIL LOAD SIDE	
120 VAC Control	OF CONTROL CIRCUIT PROTECTED BY PHASEMONITOR THAT BREAKS	
	DI HIGH DRV CONTACT ON HIGH WETWELL	
) Single conductor 120 VAC control wire shall be RED except for a wire		
entering a motor control center compartment or control panel that is an	SEPARATE DIRECT FLOAT	
interlock. This conductor shall be color coded YELLOW.	DI PUMP 1 AUX DRY CONTACT ON MOTOR	
	RUNNING STARTER	
i) 240 VAC Control; All wiring – ORANGE	DI PUMP 2 AUX. DRY CONTACT ON MOTOR	
	RUNNING STARTER	
ii) Equipment Grounding Conductor; All wiring – Green	DI LAG PUMP DRY CONTACT, MANUFACTURER	
	RUNNING PROVIDED	
v) Phase sequence shall be A-B-C from rear to front, top to bottom, or left to right when facing the equipment.	DI GEN. RUN & DRY CONTACT GENERATOR RUN RELAY HOUR METER	
y) The use of rigid hot-dipped galvanized steel or rigid aluminum electrical	DI GEN. FAIL. DRY CONTACT COMMON FAILT RELAY	
conduit is required. The Contractor shall apply a section of heat shrink	COMMON	
tubing to the conduit extending through and 12" above and below concrete	FAULT	
nads	DI TRX DRY CONTACT, TRX. SWITCH	
Pado.	SWITCH	
(i) All panels shall be lockable and rated NEMA 4X minimum	EMERG/UTI	
	LITY	
vii) Weatherproof, insulated throat "Meyers" hubs shall be used on all conduit	POSITION	
entries to panels, boxes, and devices without integral hubs.	DI TRX DRY CONTACT, TRX. SWITCH	
	SWITCH	
11		

POWER	
AVAILABL	E
GEN. FUEL	DRY CONTACT, MANUFACTURER
LOW	PROVIDED
GEN. FUEI	DRY CONTACT, MANUFACTURER
TANK	PROVIDED
LEAK	
LOW WET	DRY CONTACT ON HIGH WETWELL
WELL	RELAY AND
	SEPARATE DIRECT FLOAT

Alarm wiring to be # 14 stranded MTW blue color. Pull alarm wiring in separate conduit from AC power circuits. Conduit size for alarm circuits to be min.1" from PS control to RTU, 1" from generator to RTU and 3/4" from ATS to RTU.

