DDS- Planning & Zoning: Plan Review Application

Submission date:	**6 July 2021, 10:08AM**
Receipt number:	**316**

Application Type

Check all that apply:	**Site Plan Review**

Property Information

Property Address:	**1130 Maple Ave, Hartford, CT 06114, USA Map (41.726358565118254, -72.69052505493164)**
Zoning District:	**Open space district**
Parcel ID:	**233767001**
Property Owner:	**CITY OF HARTFORD PARK DEPT**
Address of Property Owner:	**550 Main St Hartford CT**
Email:	

Applicant

Name of Applicant:	**City of Hartford, DPW Frank Dellaripa, PE**
File Date:	**07/06/2021**
Address:	**50 Jennings Road, Hartford, CT 06120 No coordinates found**
Phone:	**860-757-9975**
Email:	**Frank.dellaripa@hartford.gov**

Primary Point of Contact

Name:	**Jason Ouimet, PE**
Phone:	**860-513-1503**
Email	**JOuimet@beta-inc.com**

Project Narrative

Please describe your application action(s) and provide as much detail as possible. Attach additional pages if necessary:	**Project Narrative will be attached**

Zoning Map Change Application

Proposed Zone:	
Describe the existing use of land and buildings in the zone change area:	
Reason for this request:	

Zoning Appeal Application

Are you an aggrieved party?	
Permit or Violation Number:	
State your reason for appealing the decision of the administrator or enforcement officer:	

Variance Application

Please state the paticular hardship* or unnecessary difficulty that prompts this application and the site the section of the zoning regulations that you are seeking relief from:

Subdivision Application

Number of lots to be created:

Area of each lot in square feet:

Street frontage of each of the new lots in feet:

Lot Combination Application

Addresses of lots to be combined

Map/Block/Lot for each property to be combined:

Liquor Permit Application

Please upload a copy of your State of CT Liquor Permit below.

Sign Permit Application

1. Is this sign proposed outside of the building line?

Maximum extention from building line:

2. Is this sign proposed outside of the street line?

Maximum extension from the Street line

3. Is the sign luminated?

4. Engineer Name (if any):

Phone:

Address:	
5. Minimum distance from lowest point to the sidewalk:	
6. Maximum height of sign from lowest point of established grade:	
7. Distance from the nearest outdoor sign:	
8. Square feet of surface for one face of the sign:	
9. Wording of the sign (include all words):	
Description of work (upload additional files if necessary)	
Upload any supporting materials below.	Project Narrative.pdf 6982 Goodwin Park Irrigation.pdf

Signatures

Signature of Applicant	Link to signature
Printed Name of Applicant:	**Frank Delllaripa**
Date:	**07/06/2021**
Signature of Property Owner:	Link to signature
Printed Name of Property Owner:	**Frank Dellaripa**
Date:	**07/06/2021**

PROJECT NARRATIVE

OVERVIEW

The Goodwin Park Golf Course (GPGC) is owned and maintained by the City of Hartford, Connecticut. GPGC is fully irrigated and consumes an average of 35,000 gallons per day (GPD) of potable water provided by Metropolitan District (MDC) at an average cost of $81,000 per year.

The City of Hartford, Department of Public Works (Hartford DPW) is proposing to replace the potable water from the MDC system with water from two (2) existing deep bedrock wells. The water from the wells would be pumped into the existing large pond from the well pumps and then used to irrigate the course by a new booster pump system which will be housed in a prefabricated building. The booster pump will directly feed the irrigation system. Pump controls and lake level automation will be used to control the equipment and record water used for State of Connecticut, DEEP permit compliance reporting. All the work and construction activities to install and construct the booster pump system and related components will be performed within the City of Hartford boundary.

IRRIGATION SYSTEM

The existing irrigation system is over 30 years old and has exceeded its practical life cycle. To reduce costly repairs and inefficiencies the City is planning to install a new irrigation system for all 27 holes. Once installed, the old system would be mostly abandoned in place. The new system will provide a more effective and economical way to manage the water usage at the course.

The installation of the new irrigation system is primarily performed by furrowing a narrow trench by which plastic piping and electrical control wiring can be placed. Once the main feeder lines are installed, spray heads and valves are cut in select locations. The trench is backfilled with existing material and the surface is quickly restored to the same elevation as before and reseeded with grass. No mass earth excavation, backfill, or filling will be conducted for the installation of the irrigation system.

The Contractor will be required to comply with all contract provisions and plans including limitations on work hours, noise, erosion control, and safety. It is expected that the irrigation work will be completed in the fall of this year (2021).

LOCATION PLAN
SCALE: NTS

CITY OF HARTFORD
DEPARTMENT OF PUBLIC WORKS
PLAN

FOR

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS

IN THE CITY OF

HARTFORD

DESIGN SCALES: PLAN 1 - INCH = 120 FEET / 1 INCH = 50 FEET / 1 INCH = 40 FEET
DETAILS - AS NOTED

OTHER SCALES AS NOTED

TOWN NO. 63

PROJECT NO. XXX

CITY CONTRACT NO. DPW-XX

ANTICIPATED START DATE JULY 2021
ANTICIPATED COMPLETION DATE JULY 2022
(FOR WETHERSFIELD IWCC PERMITTING)

CITY OF HARTFORD STANDARDS GOVERN AS SUPPLEMENTED BY CONNECTICUT STANDARD SPECIFICATIONS, FORM 818 AS SUPPLEMENTED THERETO DATED JAN. 2021
ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD 88
HORIZONTAL DATUM BASED ON N.A.D. 83

CITY OF HARTFORD BIDDING AND OTHER INFORMATION AND DOCUMENTS WHICH ARE OBTAINED THROUGH THE INTERNET, WORLD WIDE WEB SITES OR OTHER SOURCES ARE NOT TO BE CONSTRUED TO BE OFFICIAL INFORMATION FOR THE PURPOSES OF BIDDING OR CONDUCTING OTHER BUSINESS WITH THE CITY UNLESS SPECIFICALLY AUTHORIZED.

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCE'S WITHIN THE CITY OR STATE. CONTACT THE CITY OF HARTFORD, DEPARTMENT OF PUBLIC WORKS FOR MORE INFORMATION ON OBTAINING STANDARD DRAWINGS.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE CITY TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

EXISTING CONDITIONS FROM CITY OF HARTFORD GIS LAND BASE MAPPING.

LIST OF DRAWING REVISIONS

SHEET NO.	DESCRIPTION	DATE	BY

STANDARD CONVENTIONS

North Arrow

SYMBOLS LEGEND

- Iron Pin
- Monument
- Drill Hole
- Traverse
- Light Post
- Hydrant
- Post
- Utility Post
- Hand Hole
- Guy Anchor
- Unknown Valve
- Sign
- Spot Grade
- Transformer
- Deciduous Tree
- Evergreen Tree
- Shrub
- Mailbox
- Pedestrian Walk Signal
- Traffic Span Pole
- Traffic Control Box
- Utility Pole w/Light
- Street Light (wood)
- 'CL' Catch Basin
- 'C' Catch Basin
- Storm Manhole
- Sewer Manhole
- Water Manhole
- Electric Manhole
- Telephone Manhole
- Catv Manhole
- Unknown Manhole
- Electric Box (riser)
- ParkinG Meter
- Gas Valve
- Water Valve
- Traverse Control Point
- Fence Line
- Guard Rail
- Tree Line
- Overhead Utility
- Electric Line (Buried)
- Water (Buried)
- Telephone Line (Buried)
- Gas Line (Buried)
- TV Line(Comcast)
- Property Line
- Contour Line

ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE

LIST OF DRAWINGS			STANDARD DRAWINGS	F.H.W.A. APPROVAL DATE
SHEET NAME	TITLE	SHEET NO.	TITLE	
TS-1	TITLE SHEET	1		
GN-1	GENERAL NOTES	2		
ECS-0	EXISTING CONDITIONS PLAN INDEX SHEET	3		
ECS-1	EXISTING CONDTIONS PLAN (SHEET 1)	4		
ECS-2	EXISTING CONDTIONS PLAN (SHEET 2)	5		
ECS-3	EXISTING CONDTIONS PLAN (SHEET 3)	6		
ECS-4	EXISTING CONDTIONS PLAN (SHEET 4)	7		
AB-1	AS-BUILT IRRIGATION SYSTEM	8		
SCS	SITE CONSTRUCTION PLAN (OVERALL)	9		
SIP-1	SITE IRRIGATION PIPING PLAN (SHEET 1)	10		
SIP-2	SITE IRRIGATION PIPING PLAN (SHEET 2)	11		
SIP-3	SITE IRRIGATION PIPING PLAN (SHEET 3)	12		
SIP-4	SITE IRRIGATION PIPING PLAN (SHEET 4)	13		
SIW-1	SITE IRRIGATION WIRING PLAN (SHEET 1)	14		
SIW-2	SITE IRRIGATION WIRING PLAN (SHEET 2)	15		
SIW-3	SITE IRRIGATION WIRING PLAN (SHEET 3)	16		
SIW-4	SITE IRRIGATION WIRING PLAN (SHEET 4)	17		
SIE-1	SITE IRRIGATION ENLARGEMENT PLAN A	18		
SIE-2	SITE IRRIGATION ENLARGEMENT PLAN B	19		
ID-1	IRRIGATION DETAILS	20		
ID-2	PUMP, WET WELL, ENCLOSURE & SUPPORT DETAILS	21		
ID-3	ENCLOSURE DETAILS	22		
ID-4	WELL DETAILS	23		
ID-5	MISC. DETAILS	24		
E-1	ELECTRICAL PLAN	25		
E-2	ELECTRICAL DETAILS	26		

90% SUBMISSION
NOT FOR CONSTRUCTION

DESIGN BY:

BETA Group, Inc.

PER: _____

CONN. P.E. REG. NO. _____

DATE: _____

RECOMMENDED BY: _____
FRANK DELLARIPA, PE CITY ENGINEER
DATE: _____

APPROVED BY: _____
HON. LUKE BRONIN
MAYOR, CITY OF HARTFORD
DATE: _____

F.HW.A. REGION NO.	STATE	TOWN	STATE PROJ. NO.	DPW PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CT	HARTFORD	N/A	DPW XX-XX	2021	N/A	TS-1	21

CONSULTANT PROJ. No: XXXX
CONSULTANT FILE NAME: BETA_INC

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION MATERIALS AND OPERATIONS SHALL COMPLY WITH THE STANDARD PROVISIONS AND REQUIREMENTS OF THE CITY OF HARTFORD OR THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818, AS AMENDED. IN THE CASE OF CONFLICTING SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.

2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIAL SAMPLES, PLAN, OR OTHER INFORMATION TO THE CITY OR STATE REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE AS SPECIFIED IN THE CONTRACT.

3. HOURS OF WORK SHALL BE AS DEFINED IN THE CONTRACT DOCUMENTS. THE CITY RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.

4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ANY CITY, STATE OF CONNECTICUT OR OTHER PERMITS FOR WORK WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC PROTECTION AS REQUIRED FOR THIS WORK.

5. OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN 10' OF ANY ELECTRIC LINE UNDER 50KV. IF THE CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINE(S), HE MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.

6. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE CONTRACTOR HAS CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND ASSUMES ALL RISK AND RESPONSIBILITY.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ADJACENT PROPERTY OWNERS OF IMPENDING CONSTRUCTION, AS WELL AS COORDINATING DRIVEWAY AND WALKWAY REMOVAL/REPLACEMENT WORK.

8. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS, ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL UNLESS OTHERWISE ALLOWED BY THE CONTRACT.

9. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CITY REPRESENTATIVE IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS.

10. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, THE CONTRACTOR SHALL CONSULT WITH THE CITY AND APPLICABLE UTILITY COMPANY IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.

11. EXISTING CONDITIONS IS BASED ON CITY OF HARTFORD GIS LAND BASE MAPPING.

12. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

13. COORDINATE INFORMATION AND DIMENSIONS ARE DEEMED TO BE RELIABLE, BUT NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY COORDINATES AND DIMENSIONS PRIOR TO CONSTRUCTION.

14. PRIOR TO BEGINNING WORK THE CONTRACTOR'S SURVEYOR SHALL TIE OFF ANY EXISTING CITY OR STATE MONUMENTATION WITHIN THE PROJECT AREA. A MINIMUM OF THREE TIES PER MONUMENT SHALL BE USED. THE SURVEYOR SHALL SUBMIT THIS INFORMATION TO THE ENGINEER AT LEAST TWO WEEKS BEFORE CONSTRUCTION COMMENCES. ANY DISTURBANCE TO THE MONUMENTATION WHICH OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

15. THE CITY RESERVES THE RIGHT TO ALTER, CHANGE OR MODIFY THE TRAFFIC OR CONSTRUCTION PHASING PLANS IN THE INTEREST OF PUBLIC SAFETY.

16. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION STAGING/PHASING PLAN. NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE.

17. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE CONNDOT STANDARD DETAIL SHEETS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. INSTALL NEW OR RELOCATED SIGNS WITH BREAKAWAY POSTS.

18. EXISTING PAVEMENT MARKINGS SCHEDULE TO REMAIN THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED PER CITY SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS BY A METHOD APPROVED BY THE CITY.

19. PAVEMENT MARKINGS SHALL BE EPOXY RESIN TYPE IN ACCORDANCE WITH CONNDOT SPECIFICATION - FORM 817 UNLESS OTHERWISE NOTED.

20. ALL DIMENSIONS ARE REFERENCED TO THE BASELINE UNLESS OTHERWISE NOTED OR SHOWN.

21. THE CONTRACTOR SHALL CONFIRM LIMITS OF IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.

22. LINE AND GRADE FOR CONSTRUCTION LAYOUT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT TO PERFORM CONSTRUCTION LAYOUT. THE CONTRACTOR SHALL SUBMIT THE NAME OF THE SURVEYOR TO THE ENGINEER AT LEAST TWO (2) WEEKS PRIOR TO BEGINNING WORK.

23. ANY PUBLIC OR PRIVATE PROPERTY THAT IS DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS SOON AS POSSIBLE TO THE SATISFACTION OF THE ENGINEER.

24. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE CITY) TO PROTECT STOCK PILES OR WORK STAGING AREAS. IF THIS WORK IS SO ORDERED, THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR. EROSION CONTROL BARRIERS MUST BE INSTALLED BELOW STAGING AREAS AND SURROUNDING MATERIAL STOCKPILES.

25. EACH LAYER OF MATERIAL USED FOR BACKFILL OR SUBGRADE SHALL BE COMPACTED UNTIL THE DRY DENSITY OF EACH LAYER IS AT LEAST 95% OF THE DRY DENSITY ACHIEVED BY THE AASHTO TEST T180, METHOD D FOR THAT SOIL. MAXIMUM LAYER THICKNESS NOT TO EXCEED 12 INCHES.

26. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE CITY, STATE OR APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION.

27. RESET ALL PUBLIC OR PRIVATE MONUMENTS, IRON PIPES OR OTHER TYPES OF PROPERTY LINE AND GEODETIC MARKERS DAMAGED OR DISTURBED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE COMPLETED BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR. PAYMENT WILL BE MADE UNDER THE APPROPRIATE BID ITEM.

28. REPAIR, RESET, RELOCATE OR REPLACE ALL WALKS, DRIVEWAYS, CURBS, WALLS, FENCES, RAILINGS, STONE WALLS, ORNAMENTAL OR UTILITARIAN DOMESTIC ACCESSORIES, ETC. AS NOTED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

29. ALL DISTURBED AREAS NOT OTHERWISE SHOWN IN THE CONTRACT DRAWINGS SHALL BE TOPSOILED AND ESTABLISHED WITH TURF IF ORDERED BY THE ENGINEER.

30. EXISTING SIGNS THAT ARE NOT CALLED OUT BUT REQUIRE RELOCATION SHALL BE RELOCATED. THIS WORK WILL BE PAID FOR UNDER THE LUMP SUM PAY ITEM "REMOVAL AND RELOCATION OF EXISTING SIGNS".

31. IF REQUIRED BY FIELD CONDITIONS AND ORDERED BY THE ENGINEER, THE CONTRACTOR WILL DIG TEST PITS TO VERIFY SUBSURFACE CONDITIONS. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPLICABLE BID ITEM IN THE CONTRACT.

32. THE LOCATION OF EXISTING UTILITIES HAS BEEN OBTAINED FROM FIELD SURVEY AND RECORDED PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THESE LOCATIONS AND ELEVATIONS AND TAKING ALL NECESSARY STEPS TO SUPPORT AND PROTECT THEM FROM DAMAGE. ANY UTILITY LINE OR EQUIPMENT THAT IS DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED BY THE CONTROLLING UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

33. THE CONTRACTOR IS HEREBY REMINDED THAT TITLE 16 CHAPTER 293 OF THE CONNECTICUT GENERAL STATUTES REQUIRES NOTIFICATION TO UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG , 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO EXCAVATION, BUT NOT MORE THAN 30 DAYS IN ADVANCE.

34. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED 3 WEEKS IN ADVANCE BY THE CONTRACTOR. PRIVATE UTILITIES WILL ADJUST THEIR STRUCTURES AT THEIR OWN EXPENSE. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE PRIVATE UTILITIES WITH OFFSETS AND GRADE POINT FOR USE IN ADJUSTING THE STRUCTURES TO PROPOSED GRADE. PUBLIC UTILITIES ARE IDENTIFIED AS CITY, STATE AND MDC. THE ADJUSTMENT OF PUBLIC STRUCTURES SHALL BE PERFORMED BY THE CONTRACTOR AND PAID UNDER THE APPROPRIATE ITEM.

35. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION.

36. CATCH BASINS DAMAGED OR FILLED WITH DEBRIS DURING CONSTRUCTION SHALL BE REPLACED OR CLEANED AT THE CONTRACTOR'S EXPENSE.

37. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER AS APPROVED BY THE ENGINEER, PRIOR TO THE COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.

38. EXISTING CONCRETE PIPE AND STRUCTURES TO BE REMOVED THAT ARE NOT COVERED UNDER OTHER CONTRACT ITEMS SHALL BE PAID FOR AS "ROCK-IN-TRENCH EXCAVATION".

39. HARTFORD TYPE C CATCH BASINS WITH GRANITE INLETS SHALL BE USED FOR ALL CATCH BASINS.

40. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AS OUTLINED HEREIN. INSPECTION AND MAINTENANCE SHALL BE CARRIED OUT THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION OR PAVING. THE MINIMUM INSPECTION PERIOD SHALL BE WEEKLY AND/OR AFTER MAJOR STORMS. ALL EROSION & CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CT DEP "2002 CT GUIDE LINES FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL".

41. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PROPER STORM DRAINAGE AND SANITARY FLOW ARE MAINTAINED THROUGHOUT CONSTRUCTION.

42. ALL EXISTING STRUCTURES AND PIPES THAT ARE NOT REMOVED DUE TO CONSTRUCTION OF NEW STORM SEWER WILL BE PLUGGED AND ABANDONED UNLESS OTHERWISE NOTED ON THE PLANS.

43. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXCAVATIONS, TRENCH WALLS AND PROVIDING TRENCH PROTECTION IN ACCORDANCE WITH OSHA REGULATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE GENERAL COST OF THE CONTRACT. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK.

44. THAT THE TOWN OF WETHERSFIELD ENGINEERING DIVISION MUST BE NOTIFIED WHEN CONSTRUCTION WILL COMMENCE A MINIMUM OF 48 HOURS IN ADVANCE.

45. RECORD DRAWINGS SHALL BE SUBMITTED TO THE TOWN OF WETHERSFIELD ENGINEERING DIVISION UPON COMPLETION OF THE WORK. THE DRAWINGS SHALL BE PREPARED BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT, AND PROVIDED IN PAPER AND ELECTRONIC PDF FORMAT.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL REMOVE ANY SIDEWALKS, STAIRS, OR RELATED ITEMS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS AND DISPOSE OF THESE ITEMS LEGALLY OFFSITE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE UNCLASSIFIED EXCAVATION ITEM OR IF NOT SO SPECIFIED, UNDER THE ITEM "CLEARING AND GRUBBING".

2. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR DEMOLITION AND DISPOSAL OF DEMOLITION MATERIAL TO BE REMOVED FROM WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL POST ALL BONDS AND PAY ANY PERMIT FEE ASSOCIATED WITH THIS WORK. THE COST FOR THIS SHALL BE INCLUDED IN THE GENERAL COST OF THE PROJECT.

3. THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.

4. THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATIONS AS REQUIRED, TO ALL UTILITY COMPANIES AND AGENCIES AT LEAST THREE WEEKS PRIOR TO BEGINNING DEMOLITION.

5. BACKFILL DEPRESSIONS AND FILL AND TOPSOIL HOLES WITH APPROVED SOIL MATERIAL. COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION.

6. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ALL WORK TO BE PERFORMED BY UTILITY COMPANIES AND OR THE CITY. THE CONTRACTOR SHALL ASSIST, COORDINATE AND WORK WITH ALL UTILITY COMPANIES AS WORKING IS BEING CONDUCTED TO ADJUST OR RELOCATE UTILITIES.

7. ALL EXISTING REGULATORY, WARNING, AND TRAFFIC CONTROL SIGNS THAT ARE BEING REPLACED BY NEW SIGNS SHALL BE REMOVED, STOCKPILED, AND DELIVERED TO THE CITY YARD AT #40 JENNINGS ROAD, HARTFORD. INCLUDE COST IN THE REMOVAL AND RELOCATION OF TRAFFIC SIGNAL EQUIPMENT ITEM.

8. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES, THE POSTMASTER AND OTHER NECESSARY AGENCIES WHICH ARE AFFECTED BY WORK SHOWN ON THESE PLANS OR REQUIRED IN THE FIELD.

9. ALL EXISTING ROAD SIGNING SHALL BE MAINTAINED DURING CONSTRUCTION. TEMPORARY SIGNAGE SHALL BE PLACED IN AREAS WHERE EXISTING SIGNAGE CANNOT REMAIN DUE TO CONSTRUCTION ACTIVITY. ALL SIGNS REMOVED, UNLESS OTHERWISE NOTED AS NEW, SHALL BE STOCKPILED, PROTECTED FROM DAMAGE, AND REINSTALLED AS SOON AS PRACTICABLE, UNLESS OTHERWISE SPECIFIED.

10. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS AND DIMENSIONS PRIOR TO COMMENCING DEMOLITION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

11. EXISTING STREET NAME SIGNS, MAILBOXES, UTILITY POLES, ETC. WITHIN STREET RIGHT-OF-WAY AND AS OTHERWISE INDICATED SHALL REMAIN IN PLACE AND BE PROTECTED DURING DEMOLITION ACTIVITIES UNLESS OTHERWISE NOTED.

12. SEDIMENT AND EROSION CONTROLS SHALL BE IN PLACE PRIOR TO START OF DEMOLITION OR CLEARING AND GRUBBING OPERATIONS. USE SILT SACKS FOR CATCH BASINS. SILT SACKS SHALL BE EMPTIED WHEN 6" TO 12" OF SEDIMENT HAS COLLECTED, AND THAT THEY SHALL BE INSPECTED EVERY L TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.

13. ASBESTOS OR OTHER HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.

14. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR OF THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES PRIOR TO DEMOLITION OR CONSTRUCTION.

15. THE CONTRACTOR SHALL REPAIR PAVEMENTS IN PUBLIC RIGHT-OF-WAY, AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND THE STATE, DUE TO DEMOLITION, TEST PIT, AND PIPE REMOVAL ACTIVITIES.

UTILITY NOTES

1. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 48 HOURS MINIMUM PRIOR TO BEGINNING CONSTRUCTION OR DEMOLITION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED UTILITIES INCLUDING STREET LIGHTING AND TRAFFIC CONTROL CONDUIT CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE. UTILITY CONNECTIONS ARE SUBJECT TO UTILITY COMPANY AND CITY APPROVAL.

2. PROPOSED STORM DRAINAGE, SANITARY SEWER, AND WATER MAINS TO BE CONSTRUCTED BY OTHERS MAY BE SHOWN ON THE PLANS FOR INFORMATION ONLY AND ARE SUBJECT TO CHANGE. CONTRACTOR TO VERIFY THE LOCATION AND ELEVATIONS OF ALL FACILITIES PRIOR TO CONSTRUCTION.

3. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANY SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANIES, CITY AND CONNDOT STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. REFER TO THE DRAINAGE AND UTILITES PLAN FOR ADDITIONAL INFO.

4. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, CITY AND CONNDOT REQUIREMENTS.

5. ALL DISTURBANCE CAUSED TO CITY OR PRIVATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY OR PRIVATE AUTHORITY.

6. THE CONTRACTOR SHALL COORDINATE AND CONDUCT, AS DETERMINED BY THE APPROPRIATE UTILITY, THE RESETTING OF MANHOLES, HANDHOLES, CURB BOXES AND VALVE BOXES TO THE NEW SIDEWALK OR ROADWAY GRADE.

GRADING AND DRAINAGE NOTES

1. THE CONTRACTOR SHALL UTILIZE EROSION CONTROL MEASURES ACCEPTABLE TO THE ENGINEER UNTIL THE COMPLETION OF HIS WORK AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS UNTIL PROJECT COMPLETION. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK AND SUCH COST SHALL BE INCLUDED IN THE OVERALL COST OF THE PROJECT.

2. UNLESS OTHERWISE NOTED ALL PROPOSED SIDEWALKS, DRIVEWAYS, AND OTHER IMPROVEMENTS SHALL BE INSTALLED TO MATCH EXISTING GRADES AT THE LIMITS OF CONSTRUCTION. GRADING PERFORMED IN ACCORDANCE WITH PROPOSED IMPROVEMENTS SHALL NOT RESULT IN PONDING OF STORM WATER OR NEGATIVELY IMPACT EXISTING DRAINAGE PATTERNS.

3. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE CITY REPRESENTATIVE PRIOR TO THE START OF WORK ON THE SITE.

4. THE CONTRACTOR SHALL COMPACT FILL UNDER ALL WALK AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST) IN MAXIMUM 8" LIFTS.

5. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. RESET ALL EXISTING MANHOLE RIMS AND WATER GATE VALVES FLUSH WITH FINAL GRADE AS NECESSARY. THE CONTRACTOR SHALL COORDINATE THE SETTING OF THESE STRUCTURES WITH THE UTILITY COMPANIE(S)

6. SIDEWALK PITCH SHALL BE MAXIMUM 2% UNLESS OTHERWISE NOTED, AS INDICATED BY SPOT ELEVATIONS, AS SHOWN ON THE MISCELLANEOUS DETAILS, AS SHOWN ON TYPICAL CROSS SECTION SHEETS, OR AS SHOWN ON THE CROSS SECTIONS.

7. WHEN A NEW WALK MEETS AN EXISTING STEP OR WALL, MAINTAIN THE EXISTING RISER HEIGHT OR WALL HEIGHT UNLESS OTHERWISE NOTED AND AS INDICATED. NOTIFY THE CITY REPRESENTATIVE OF ANY DISCREPANCIES.

8. ADJUST BOTTOM OF CURB GRADES IF NECESSARY TO MAINTAIN A POSITIVE GUTTER FLOW. THE TYPICAL CURB HEIGHT IS 6". THE CURB HEIGHT SHALL NOT BE LESS THAN 4" NOR GREATER THAN 6" UNLESS INDICATED BY SPOT ELEVATIONS. NOTIFY THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF CURB IF SITE CONDITIONS DO NOT MEET THESE CRITERIA. ANY CURB THAT MUST BE RESET BECAUSE IT DOES NOT MEET THESE CRITERIA AND THE INSTALLATION OF SAID CURB HAS NOT BEEN APPROVED BY THE ENGINEER, SHALL BE RESET TO CORRECT REVEAL AT THE CONTRACTOR'S EXPENSE.

9. PROPOSED GRADES TO SMOOTHLY MEET EXISTING GRADES AT ALL LIMITS OF CONSTRUCTION.

10. CONTRACTOR SHALL VERIFY THE CONDITION OF ALL DRAINAGE STRUCTURES PRIOR TO THE START OF CONSTRUCTION. CATCH BASINS MAY BE INSPECTED BY THE CITY OR METROPOLITAN DISTRICT AT THE END OF CONSTRUCTION TO ENSURE SATISFACTORY CONDITION.

11. EXISTING PAVEMENT SHALL BE SAWCUT WHERE DRAINAGE PIPE OR STRUCTURES ARE TO BE INSTALLED.

12. ALL PIPES SHALL BE LAID IN STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

13. MINIMUM CLEARANCE, AS REQUIRED BY EACH UTILITY, BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND SEWERS SHALL BE PROVIDED UNLESS OTHERWISE NOTED. 6" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM AND SANITARY SEWERS WITH A CONCRETE ENCASEMENT.

14. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO FINAL WORK INSTALLATION. BRING ANY DISCREPANCIES TO THE ENGINEER'S IMMEDIATE ATTENTION.

15. ALL SPOT ELEVATIONS AT BUILDING WALLS ARE EXISTING ELEVATIONS UNLESS OTHERWISE NOTED. BRING ANY DISCREPANCIES TO THE ENGINEER'S IMMEDIATE ATTENTION.

16. CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT OF UTILITIES IN A METHOD ACCEPTABLE TO THE OWNER OF THAT UTILITY FOR WORK RELATED TO THE INSTALLATION OF DRAINAGE STRUCTURES AND PIPING. THIS WORK WILL NOT BE MEASURED FOR PAYMENT.

17. CONTRACTOR SHALL COORDINATE WITH CL&P THE NEED FOR TEMPORARY SUPPORT OR RELOCATION OF UTILITY POLES RESULTING FROM EXCAVATIONS RELATED TO THIS PROJECT.

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GOODWIN PARK IRRIGATION
& BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

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www.BETA-inc.com
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GENERAL NOTES

Sheet Name
GN-1

Project No.
6982

NOTE:
CONTRACTOR SHALL VERIFY EXISTING CONDITION INFORMATION IN THE FIELD. THE ENGINEER MAKES NO GUARANTEE THAT THE FEATURES SHOWN ON THE BASE PLAN ARE IN EXACT LOCATIONS BUT THAT EFFORTS HAVE BEEN MADE TO DEPICT ACCURATELY. THE EXISTING CONDITIONS BASED ON THE FOLLOWING INFORMATION:

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4. AS-BUILT LIGHTPOLE LOCATIONS TAKEN FROM DATA PROVIDED BY DPW PROJECT 2017.013 BY MAIER DESIGN GROUP

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EXISTING CONDITIONS PLAN INDEX SHEET

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ECS-0

Project No.
6982

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HARTFORD, CONNECTICUT 06103

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EXISTING CONDTIONS PLAN (SHEET 1)

Sheet Name
ECS-1

Project No.
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MATCHLINE - MATCH TO SHEET ECS-4

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EXISTING CONDTIONS PLAN (SHEET 2)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ECS-2

Project No.
6982

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MATCHLINE - MATCH TO SHEET ECS-1

MATCHLINE - MATCH TO SHEET ECS-4

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HARTFORD, CONNECTICUT 06103

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BETA GROUP, INC.
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EXISTING CONDTIONS PLAN (SHEET 3)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ECS-3

Project No.
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MATCHLINE - MATCH TO SHEET ECS-2

MATCHLINE - MATCH TO SHEET ECS-3

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GOODWIN PARK IRRIGATION
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EXISTING CONDTIONS PLAN (SHEET 4)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ECS-4

Project No.
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GOODWIN PARK GOLF COURSE	12/20/89 DATE
JOB NAME HARTFORD, CONN.	REVISION
AS-BUILT IRRIGATION PLAN	1"= 100' SCALE
PLAN	DESIGNER

DESIGNED BY:

tpc turf products corporation
157 Moody Road, Enfield, CT 06082, (203) 763-3581
7 Coppage Drive, Worcester, MA 01602, (508) 791-2091

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AS-BUILT IRRIGATION SYSTEM

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
AB-1

Project No.
6982

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SITE CONSTRUCTION PLAN (OVERALL)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SCS

Project No.
6982

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NOTICE TO CONTRACTOR:
THE EXISTING IRRIGATION SYSTEM SHALL REMAIN IN PLACE AND OPERATIONAL DURING THE COURSE OF WORK ON THIS PROJECT. THE CONTRACTOR IS ADVISED THAT ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT MAY OCCUR DURING HIS OPERATIONS SHALL BE REPAIRED AT HIS EXPENSE WITHIN 24 HOURS OF OCCURRENCE. THE EXISTING IRRIGATION SYSTEM MAY ONLY BE ABANDONED ONCE THE NEW SYSTEM IS IN PLACE AND FULLY FUNCTIONAL. THIS PLAN HAS BEEN PROVIDED TO THE CONTRACTOR AS THE BEST INFORMATION AVAILABLE TO AVOID CONFLICTS WITH EXISTING AND NEW WORK. THE CITY MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS PLAN.

THE DEMOLITION AND ABANDONMENT OF THE EXISTING IRRIGATION SYSTEM WILL INVOLVE THE REMOVAL OF ALL EXISTING SURFACE HEADS AND VALVES TO THE CONNECTION POINT WITH THE FEEDER LINE. EXISTING JUNCTION BOXES SHALL BE REMOVED AND WIRES SHALL BE CUT A MINIMUM 10" BELOW GRADE AND ABANDONED. FEEDER AND MAIN LINE PIPING MAY BE ABANDONED IN PLACE HOWEVER ANY OPEN PIPES SHALL BE CAPPED AND PLUGGED. THE GOODWIN PARK GOLF COURSE WILL MAKE ARRANGEMENTS FOR THE CONTRACTOR TO DELIVER THE SALVAGED MATERIALS, HEADS AND VALVES TO AN APPROPRIATE LOCATION WITHIN THE PARK. ALL DISTURBED AREAS SHALL BE TOP-SOILED AND SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.

PIPING NOTES:

1. THIS DRAWING IS INTENDED ONLY IS AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS INCLUDING BUT NOT LIMITED TO MAINLINE ROUTING, SPRINKLERS, QUICK COUPLER VALVES, AND AIR RELEASE VALVES WILL BE FIELD STAKED.
2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
3. AIR RELEASE VALVES SHALL BE LOCATED AND SHALL BE STAKED ON SITE BY THE IRRIGATION CONSULTANT.
4. QUICK COUPLER VALVES SHALL BE LOCATED PER HOLE INCLUDING THE PRACTICE FACILITY AND SHALL BE STAKED ON SITE BY IRRIGATION CONSULTANT AND GOLF COURSE SUPERINTENDENT.
5. DO NOT INSTALL PIPING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER
6. PROVIDE TREE PROTECTION FENCE WHEN WORKING WITHIN A TREE ROOT ZONE DRIP LINES AS DIRECTED BY THE ENGINEER.
6. SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
7. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

PIPING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
		TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
		TORO 474-01 QUICK COUPLER VALVE
		MAINLINE ISOLATION GATE VALVE (LINE SIZED)
		3" LATERAL ISOLATION HDPE BALL VALVE
		2" LATERAL ISOLATION HDPE BALL VALVE
		2" HDPE DRAIN VALVE
		AIR RELEASE VALVE ASSEMBLY
		10" DR13.5 HDPE MAINLINE PIPING
		8" DR13.5 HDPE MAINLINE PIPING
		6" DR13.5 HDPE MAINLINE PIPING
		4" DR13.5 HDPE MAINLINE PIPING
		3" DR13.5 HDPE LATERAL PIPING
		2" DR13.5 HDPE LATERAL PIPING

SCHEDULE OF IMPACTED WETLAND SOILS:
(WITHIN THE TOWN OF WETHERSFIELD)

IMPACT (ACRES)	PIPE SIZE
0.00	10" DR13.5 HDPE MAINLINE PIPING
0.02	8" DR13.5 HDPE MAINLINE PIPING
0.03	6" DR13.5 HDPE MAINLINE PIPING
0.15	4" DR13.5 HDPE MAINLINE PIPING

NOTES:
1. IMPACTED AREA BASED ON AN 18" WIDE TRENCH EXCAVATION.
2. WETLAND SOIL LIMITS FROM GIS

SCHEDULE OF IMPACTED WETLAND SOILS:
(WITHIN THE CITY OF HARTFORD)

IMPACT (ACRES)	PIPE SIZE
0.00	10" DR13.5 HDPE MAINLINE PIPING
0.00	8" DR13.5 HDPE MAINLINE PIPING
0.05	6" DR13.5 HDPE MAINLINE PIPING
0.18	4" DR13.5 HDPE MAINLINE PIPING

NOTES:
1. IMPACTED AREA BASED ON AN 18" WIDE TRENCH EXCAVATION.
2. WETLAND SOIL LIMITS FROM GIS

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HARTFORD, CONNECTICUT 06103

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION PIPING PLAN (SHEET 1)

Sheet Name
SIP-1

Project No.
6982

5/20/2021 9:22:15 AM

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NOTICE TO CONTRACTOR:
THE EXISTING IRRIGATION SYSTEM SHALL REMAIN IN PLACE AND OPERATIONAL DURING THE COURSE OF WORK ON THIS PROJECT. THE CONTRACTOR IS ADVISED THAT ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT MAY OCCUR DURING HIS OPERATIONS SHALL BE REPAIRED AT HIS EXPENSE WITHIN 24 HOURS OF OCCURRENCE. THE EXISTING IRRIGATION SYSTEM MAY ONLY BE ABANDONED ONCE THE NEW SYSTEM IS IN PLACE AND FULLY FUNCTIONAL. THIS PLAN HAS BEEN PROVIDED TO THE CONTRACTOR AS THE BEST INFORMATION AVAILABLE TO AVOID CONFLICTS WITH EXISTING AND NEW WORK. THE CITY MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS PLAN.

THE DEMOLITION AND ABANDONMENT OF THE EXISTING IRRIGATION SYSTEM WILL INVOLVE THE REMOVAL OF ALL EXISTING SURFACE HEADS AND VALVES TO THE CONNECTION POINT WITH THE FEEDER LINE. EXISTING JUNCTION BOXES SHALL BE REMOVED AND WIRES SHALL BE CUT A MINIMUM 10" BELOW GRADE AND ABANDONED. FEEDER AND MAIN LINE PIPING MAY BE ABANDONED IN PLACE HOWEVER ANY OPEN PIPES SHALL BE CAPPED AND PLUGGED. THE GOODWIN PARK GOLF COURSE WILL MAKE ARRANGEMENTS FOR THE CONTRACTOR TO DELIVER THE SALVAGED MATERIALS, HEADS AND VALVES TO AN APPROPRIATE LOCATION WITHIN THE PARK. ALL DISTURBED AREAS SHALL BE TOP-SOILED AND SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.

PIPING NOTES:

1. THIS DRAWING IS INTENDED ONLY IS AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS INCLUDING BUT NOT LIMITED TO MAINLINE ROUTING, SPRINKLERS, QUICK COUPLER VALVES, AND AIR RELEASE VALVES WILL BE FIELD STAKED.
2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
3. AIR RELEASE VALVES SHALL BE LOCATED AND SHALL BE STAKED ON SITE BY THE IRRIGATION CONSULTANT.
4. QUICK COUPLER VALVES SHALL BE LOCATED PER HOLE INCLUDING THE PRACTICE FACILITY AND SHALL BE STAKED ON SITE BY IRRIGATION CONSULTANT AND GOLF COURSE SUPERINTENDENT.
5. DO NOT INSTALL PIPING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER
6. PROVIDE TREE PROTECTION FENCE WHEN WORKING WITHIN A TREE ROOT ZONE DRIP LINES AS DIRECTED BY THE ENGINEER.
6. SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
7. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

Revisions	By	Date

Notice

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Sign-Offs	By	Date
Drawn	NS/CC	11/25
Checked	JB	11/25
Recommended		
Approved		
Recorded		

GOODWIN PARK IRRIGATION
& BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA
CONSULTING ENGINEERS
1010 WETHERSFIELD AVENUE
SUITE 305
HARTFORD, CONNECTICUT 06114
PH 860-513-1005
FAX 860-513-1582

50 0 50 100
SCALE IN FEET: 1"=50'

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION PIPING PLAN (SHEET 2)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIP-2

Project No.
6982

5/20/2021 9:22:27 AM

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MATCHLINE - MATCH TO SHEET SIP-1

MATCHLINE - MATCH TO SHEET SIP-4

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7. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

PIPING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
		TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)

- TORO 474-01 QUICK COUPLER VALVE
- MAINLINE ISOLATION GATE VALVE (LINE SIZED)
- 3" LATERAL ISOLATION HDPE BALL VALVE
- 2" LATERAL ISOLATION HDPE BALL VALVE
- 2" HDPE DRAIN VALVE
- AIR RELEASE VALVE ASSEMBLY
- 10" DR13.5 HDPE MAINLINE PIPING
- 8" DR13.5 HDPE MAINLINE PIPING
- 6" DR13.5 HDPE MAINLINE PIPING
- 4" DR13.5 HDPE MAINLINE PIPING
- 3" DR13.5 HDPE LATERAL PIPING
- 2" DR13.5 HDPE LATERAL PIPING

Revisions	By	Date

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Approved		
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GOODWIN PARK IRRIGATION
& BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA
CONSULTING ENGINEERS
1010 WETHERSFIELD AVENUE
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HARTFORD, CONNECTICUT 06114
860-513-1505
FAX 860-513-1582

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION PIPING PLAN (SHEET 3)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIP-3

Project No.
6982

5/20/2021 9:22:35 AM

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MATCHLINE - MATCH TO SHEET SIP-2

MATCHLINE - MATCH TO SHEET SIP-3

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6. SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
7. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

PIPING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
		TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
		TORO 474-01 QUICK COUPLER VALVE
		MAINLINE ISOLATION GATE VALVE (LINE SIZED)
		3" LATERAL ISOLATION HDPE BALL VALVE
		2" LATERAL ISOLATION HDPE BALL VALVE
		2" HDPE DRAIN VALVE
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Revisions	By	Date

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Recommended		
Approved		
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GOODWIN PARK IRRIGATION
& BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA
www.BETA-inc.com
1010 WETHERSFIELD AVENUE
SUITE 305
HARTFORD, CONNECTICUT 06114
TEL 860-513-1503
FAX 860-513-1862

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SCALE IN FEET: 1"=50'

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION PIPING PLAN (SHEET 4)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIP-4

Project No.
6982

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5/20/2021 9:22:45 AM

WIRING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
		TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
		TORO LYNX CENTRAL CONTROL SYSTEM
		COMM. CABLE SURGE PROTECTOR & GROUNDING
		RE-ENTERABLE COMMUNICATION CABLE SPLICE
		COMMUNICATION CABLE PATH #1
		COMMUNICATION CABLE PATH #2
		COMMUNICATION CABLE PATH #3
		COMMUNICATION CABLE PATH #4
		COMMUNICATION CABLE PATH #5
		COMMUNICATION CABLE PATH #6
		WIRE PATH CONTROL ZONE

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HANMER STREET

CROMWELL STREET

HUBBARD ROAD

SEE BOOSTER PUMP SYSTEM ENLARGEMENT PLAN A FOR ADDITIONAL INFORMATION

WIRE PATH CONTROL ZONE BOUNDARY (TYP.)

PATH 5 (134)

PATH 4

PATH 3

Wetlands

PROP. FC SPRINKLER (65' @ 65 PSI) (TYP.)

PROP. PC SPRINKLER (65' @ 65 PSI) (TYP.)

PROP. PC SPRINKLER (60' @ 65 PSI) (TYP.)

PROP. COMM. CABLE PATH #5 (TYP.)

PROP. FC SPRINKLER (70' @ 65 PSI) (TYP.)

PROP. RE-ENTERABLE COMM. CABLE SPLICE (TYP.)

PROP. COMM. CABLE SURGE PROTECTOR & GROUNDING (TYP.)

PROP. COMM. CABLE PATH #1 (TYP.)

PROP. COMM. CABLE PATH #6 (TYP.)

MATCHLINE - MATCH TO SHEET SIW-2

MATCHLINE - MATCH TO SHEET SIW-3

Revisions	By	Date

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Drawn	NS/CC	11/25
Checked	JB	11/25
Recommended		
Approved		
Recorded		

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA
1010 WETHERSFIELD AVENUE
SUITE 305
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1003
FAX: 860-513-1582
www.BETA-inc.com

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION WIRING PLAN (SHEET 1)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIW-1

Project No.
6982

5/20/2021 9:23:09 AM

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WIRING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
		TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)

TORO LYNX CENTRAL CONTROL SYSTEM
COMM. CABLE SURGE PROTECTOR & GROUNDING
RE-ENTERABLE COMMUNICATION CABLE SPLICE
COMMUNICATION CABLE PATH #1
COMMUNICATION CABLE PATH #2
COMMUNICATION CABLE PATH #3
COMMUNICATION CABLE PATH #4
COMMUNICATION CABLE PATH #5
COMMUNICATION CABLE PATH #6
WIRE PATH CONTROL ZONE

WIRING NOTES:

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3. DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER

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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA ENGINEERS & SCIENTISTS
1010 WETHERSFIELD AVENUE
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HARTFORD, CONNECTICUT 06114
TEL 860-513-1503
FAX 860-513-1562

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City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION WIRING PLAN (SHEET 2)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIW-2

Project No.
6982

5/20/2021 9:23:21 AM

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MATCHLINE - MATCH TO SHEET SIW-1

WIRING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
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		TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
		TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)

- TORO LYNX CENTRAL CONTROL SYSTEM
- COMM. CABLE SURGE PROTECTOR & GROUNDING
- RE-ENTERABLE COMMUNICATION CABLE SPLICE
- COMMUNICATION CABLE PATH #1
- COMMUNICATION CABLE PATH #2
- COMMUNICATION CABLE PATH #3
- COMMUNICATION CABLE PATH #4
- COMMUNICATION CABLE PATH #5
- COMMUNICATION CABLE PATH #6
- WIRE PATH CONTROL ZONE

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SITE IRRIGATION WIRING PLAN (SHEET 3)

Sheet Name
SIW-3

Project No.
6982

5/20/2021 9:23:30 AM

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MATCHLINE - MATCH TO SHEET SIW-2

MATCHLINE - MATCH TO SHEET SIW-3

52)

PATH 3 (161)

WETHERSFIELD
HARTFORD

PROP. FC SPRINKLER (70' @ 65 PSI) (TYP.)
WIRE PATH CONTROL ZONE BOUNDARY (TYP.)
PROP. PC SPRINKLER (60' @ 65 PSI) (TYP.)
PROP. COMM. CABLE PATH #4 (TYP.)
4-WAY SPLICE ON COMM. #3
SURGE PROTECTOR ON COMM. #3
PROP.PC SPRINKLER (65' @ 65 PSI) (TYP.)
PROP. COMM. CABLE PATH #3 (TYP.)
PROP. COMM. CABLE SURGE PROTECTOR & GROUNDING (TYP.)
PROP. COMM. CABLE PATH #2 (TYP.)
PROP. COMM. CABLE PATH #1 (TYP.)
PROP. ROADWAY PATCH (TYP.)
3-WAY SPLICE ON COMM. #4
PROP. RE-ENTERABLE COMM. CABLE SPLICE (TYP.)
PROP. SURGE PROTECTOR ON EACH COMM CABLE (6 TOTAL). INSTALL IN JUMBO VALVE BOX. GROUND ALL WITH (1) 10' ROD & (1) 8' PLATE.
MAINTENANCE BUILDING
PROP. TORO LYNX CENTRAL CONTROL SYSTEM
PROP. BUILDING PENETRATION PER ELECTRICAL CODE (TYP.)
RIDGE ROAD
PUTTING GREEN
CLUB HOUSE
TERRACE
CART BARN
PUMP HOUSE
1
9
10
12
13
14
15
18

WIRING LEGEND:

FC	PC	
		TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
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SITE IRRIGATION WIRING PLAN (SHEET 4)

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
SIW-4

Project No.
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- AIR RELEASE VALVE ASSEMBLY
- 10" DR13.5 HDPE MAINLINE PIPING
- 8" DR13.5 HDPE MAINLINE PIPING
- 6" DR13.5 HDPE MAINLINE PIPING
- 4" DR13.5 HDPE MAINLINE PIPING
- 3" DR13.5 HDPE LATERAL PIPING
- 2" DR13.5 HDPE LATERAL PIPING

PIPING NOTES:

1. THIS DRAWING IS INTENDED ONLY IS AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS INCLUDING BUT NOT LIMITED TO MAINLINE ROUTING, SPRINKLERS, QUICK COUPLER VALVES, AND AIR RELEASE VALVES WILL BE FIELD STAKED.
2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
3. AIR RELEASE VALVES SHALL BE LOCATED AND SHALL BE STAKED ON SITE BY THE IRRIGATION CONSULTANT.
4. QUICK COUPLER VALVES SHALL BE LOCATED PER HOLE INCLUDING THE PRACTICE FACILITY AND SHALL BE STAKED ON SITE BY IRRIGATION CONSULTANT AND GOLF COURSE SUPERINTENDENT.
5. DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER
6. PROVIDE TREE PROTECTION FENCE WHEN WORKING WITHIN A TREE ROOT ZONE DRIP LINES AS DIRECTED BY THE ENGINEER.
6. SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
7. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

NOTES:

A. CONSTRUCT NEW BOOSTER PUMP AND ENCLOSURE; SEE DETAILS.

B. CONSTRUCT NEW SELF CLEANING INTAKE STRAINER AND PIPING WITH RIP RAP PAD; SEE DETAILS.

Revisions	By	Date

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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 | TBD | TBD

BETA
1010 WETHERSFIELD AVENUE
SUITE 305
HARTFORD, CONNECTICUT 06114
TEL 860-513-1503
FAX 860-513-1562

SCALE IN FEET: 1" = 30'

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SITE IRRIGATION ENLARGEMENT PLAN A

Sheet Name
SIE-1

Project No.
6982

5/20/2021 9:24:09 AM

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EXIST. CONDUITS
C - WELL PUMP 1
C - WELL PUMP 2
E - WELL PUMP 1
E - WELL PUMP 2
E - AERATOR 1
E - AERATOR 2

JUNCTION EXIST. AERATOR

EXIST. PUMP DISCHARGE POINT

N: 825835.200
E: 1018122.381

N: 825846.427
E: 1018119.888

N: 825842.093
E: 1018100.364

N: 825830.866
E: 1018102.856

EXISTING PUMP TO BE REPLACED WITH NEW (5HP) WELL PUMP #1

EXIST. 4" PVC WELL DISCHARGE PIPES

PROP. LAKE LEVEL CONTROLS; COORDINATE LOCATION WITH ENGINEER

PROP. 2" CONDUIT FOR LAKE LEVEL CONTROLS

PROP. SUCTION PIPE 10" HDPE DR 17

PROP. DISCHARGE PIPE 2" HDPE DR 13.5

10' X 14' MODIFIED RIP RAP PAD SEE DETAILS

PROP. INTAKE FILTER & SKID ASSEMBLY SEE DETAILS

GRADE POND BOTTOM TO ALLOW RIP RAP PAD INSTALLATION PER SECTION A-A FOR INTAKE SKID ASSEMBLY. DO NOT REMOVE DISTURBED SEDIMENT. RELOCATE SEDIMENT EVENLY OVER SIDES A, B, AND C. IT IS THE CONTRACTORS RESPONSIBILITY TP PROVIDE DEWATERING MEANS AND METHODS.

SLOPED SIDE OF MODIFIED RIP RAP PAD 3:1 MAX. SEE DETAILS

APPROX. POND EDGE

NOTE B

NOTE A

COORDINATE SIDEWALK LOCATION WITH EXISTING LIGHTPOLE

GRADE AREA AROUND BUILDING TO PROVIDE POSITIVE DRAINAGE

PROP. 5' WIDE BIT. CONC. WALK

REMOVE AND RESET FENCE AS NEEDED (TYP.)

PROP. BOOSTER PUMP, SKID AND ENCLOSURE ON REINFORCED CONC. PAD; SEE DETAILS

PIPING LEGEND:

FC PC
- TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
- TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
- TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
- TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
- TORO 474-01 QUICK COUPLER VALVE
- MAINLINE ISOLATION GATE VALVE (LINE SIZED)
- 3" LATERAL ISOLATION HDPE BALL VALVE
- 2" LATERAL ISOLATION HDPE BALL VALVE
- 2" HDPE DRAIN VALVE
- AIR RELEASE VALVE ASSEMBLY
- 10" DR13.5 HDPE MAINLINE PIPING
- 8" DR13.5 HDPE MAINLINE PIPING
- 6" DR13.5 HDPE MAINLINE PIPING
- 4" DR13.5 HDPE MAINLINE PIPING
- 3" DR13.5 HDPE LATERAL PIPING
- 2" DR13.5 HDPE LATERAL PIPING

NOTES:

A. CONSTRUCT NEW BOOSTER PUMP AND ENCLOSURE; SEE DETAILS.

B. CONSTRUCT NEW SELF CLEANING INTAKE STRAINER AND PIPING WITH RIP RAP PAD; SEE DETAILS.

PIPING NOTES:

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2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
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4. QUICK COUPLER VALVES SHALL BE LOCATED PER HOLE INCLUDING THE PRACTICE FACILITY AND SHALL BE STAKED ON SITE BY IRRIGATION CONSULTANT AND GOLF COURSE SUPERINTENDENT.
5. DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER
6. PROVIDE TREE PROTECTION FENCE WHEN WORKING WITHIN A TREE ROOT ZONE DRIP LINES AS DIRECTED BY THE ENGINEER.
7. SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
8. PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS

PUMP STATION SITE ENLARGEMENT
SCALE: 1" =5' - 0"

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GOODWIN PARK IRRIGATION
& BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

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www.BETA-inc.com
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TEL 860-513-1503
FAX 860-513-1582

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Department of Public Works

SITE IRRIGATION ENLARGEMENT PLAN B

Sheet Name
SIE-2

Project No.
6982

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COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE

NOTES:
1. MINIMUM OF 16" FROM TOP OF PIPE TO FINISH GRADE.
2. SPRINKLER AND SWING JOINT BACKFILLED WITH APPROVED MATERIAL CONTAINING NO ROCK.

SPRINKLER INSTALLATION
NOT TO SCALE

NOTES:
1. MINIMUM OF 16" FROM TOP OF PIPE TO FINISH GRADE.
2. SPRINKLER AND SWING JOINT BACKFILLED WITH APPROVED MATERIAL CONTAINING NO ROCK.

SPRINKLER INSTALLATION
NOT TO SCALE

NOTES:
1. QCV AND SWING JOINT BACKFILLED WITH APPROVED MATERIAL CONTAINING NO ROCK.
2. FILL BOTTOM OF VALVE BOX WITH STONE/GRAVEL AROUND QCV.

QUICK COUPLER VALVE ASSEMBLY
NOT TO SCALE

COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE

NOTE:
FILL BOTTOM OF REACH SLEEVE WITH STONE/GRAVEL.

LATERAL ISOLATION VALVE
NOT TO SCALE

3-WAY COMMUNICATION SPLICE
NOT TO SCALE

DRAIN VALVE ASSEMBLY
NOT TO SCALE

NOTES:
1. DO NOT INSTALL GROUND ROD OR PLATE WITHIN 8' OF ANY LYNX SMART MODULE.
2. INSTALL GROUND ROD 8' FROM LYNX SMART HUB.
3. INSTALL GROUND PLATE 16' FROM GROUND ROD.
4. AVOID SHARP BENDS IN GROUND WIRE.

COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE

NOTE:
FILL BOTTOM OF REACH SLEEVE WITH STONE/GRAVEL.

LATERAL ISOLATION VALVE
NOT TO SCALE

NOTES:
1. MINIMUM OF 20" FROM TOP OF MAINLINE PIPE TO FINISH GRADE.
2. FILL BOTTOM OF VALVE REACH SLEEVE WITH STONE/GRAVEL WITH FULL ACCESS TO OPERATING NUT.

MAINLINE ISOLATION VALVE
NOT TO SCALE

NOTE:
FILL BOTTOM OF REACH SLEEVE WITH STONE/GRAVEL.

AIR RELEASE VALVE ASSEMEBLY
NOT TO SCALE

NOTES:
1. INSTALL GROUND ROD & SURGE PROTECTOR ADJACENT TO COMMUNICATION CABLES, BUT NOT WITHIN 8' OF ANY LYNX SMART MODULES.
2. INSTALL GROUND PLATE 16' FROM GROUND ROD.
3. AVOID SHARP BENDS IN GROUND WIRE.

COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE

CENTRAL CONTROL SYSTEM (TYP.)
NOT TO SCALE

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HARTFORD, CONNECTICUT 06103

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Department of Public Works

IRRIGATION DETAILS

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ID-1

Project No.
6982

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SECTION A-A PROFILE ALONG INTAKE PIPE & COMPOSITE FILTER
SCALE: $\frac{1}{4}$"=1'–0"

NOTE:
PROVIDE 12" CLEAR FROM ANY PIPING WITHIN THE ENCLOSURE.

PICKET PROTECTIVE ENCLOSURE
SCALE: NOT TO SCALE

PUMP STATION SPECIFICATIONS
NAME:
Goodwin Park GC
STATION MODEL:
VLCP-800-3-130
STATION TOTAL PERFORMANCE:
IRRIGATION: 800gpm@130psi

PUMP HORSEPOWER:
PUMP NO.1 5HP (3600RPM) VCP (IRR.)
PUMP NO.2 50 HP (3600RPM) ESCP (IRR.)
PUMP NO.3 50 HP (3600RPM) ESCP (IRR.)

CHECK VALVE SIZE
PUMP NO.1 2"
PUMP NO.2 6"
PUMP NO.3 6"

ISOLATION VALVE SIZES:
PUMP NO.1 2"
PUMP NO.2 6"
PUMP NO.3 6"

IRRIGATION DISCHARGE ISOLATION VALVE: 8"
RELIEF VALVE SIZE: 3"
PUMP STATION DISCONNECT: 400 AMP
POWER REQUIREMENTS: 230 V, 60 HZ, 1 PHZ, 270 FLA
EXHAUST FAN REQUIREMENTS: 3910 CFM

STATION COMPONENTS:
A 50 HP PUMP AND MOTOR
B 5HP PUMP AND MOTOR
C CHECK VALVE
D ISOLATION VALVE
E PRESSURE RELIEF VALVE
F FLOW SENSOR
G STATION ISOLATION VALVE
H HEAT EXCHANGER
I CONTROL CABINET
J VAC PUMP

PUMP STATION ENCLOSURE
SCALE: NTS

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Department of Public Works

PUMP, WET WELL, ENCLOSURE & SUPPORT DETAILS

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
ID-2

Project No.
6982

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Pump Station Example from Manufacturer
Scale: NTS

Exterior Finish:
Shall be Grey Brick Stucco to appear similar to existing nearby building.
Roof shall be a prefabricated wood truss system (hip) complete.

Existing Building Near Proposed Pump House
Scale: NTS

Pump Station Side View
Scale: NTS

Pump Station Perspective
Scale: NTS

Pump Station Front View
Scale: NTS

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Enclosure Details

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Project No.
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SUBMERSIBLE WELL PUMPS

NOT TO SCALE

NOTICE TO CONTRACTOR:
THIS PLAN REPRESENTS THE APPROXIMATE LAYOUT OF THE EXISTING SUBMERSIBLE WELL PUMPS. THE WORK TO BE PERFORMED ON THIS PLAN IS CALLED OUT IN BOXED TEXT.

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION
REAL ESTATE & PROFESSIONAL TRADES DIVISION
WELL DRILLING COMPLETION REPORT
City of Hartford Public Works
525 Main Street
Hartford
Main Avenue
Hartford
Overflow
405
Shale
Greenstone
Greenstone Trap
Rock
Sand Park
Sand Park
Sand Park

DRIPLINE TREE PROTECTION DEVICE
NOT TO SCALE

TREE GROUP PROTECTION
NOT TO SCALE

SHRUB PROTECTION DEVICE
NOT TO SCALE

NOTE: PROVIDE A 24' MIN. WIDTH PER THE 2002 CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

CONSTRUCTION ENTRANCE
NOT TO SCALE

TYPICAL SECTION

PLAN VIEW

CONCRETE SIDEWALK PATCH
SCALE: ½"=1'-0"

TYPICAL SECTION

PLAN VIEW

ROADWAY PATCH
SCALE: ½"=1'-0"

MINIMUM COVER OVER PIPE SHALL BE AS FOLLOWS:

MAINLINE PIPE 4" OR LARGER:	24"
LOW VOLTAGE WIRING:	18"
LATERAL LINE PIPING:	18"
SLEEVES:	36"

NOTE:
COMMUNICATION CABLE SHALL ALWAYS BE ON THE RIGHT HAND SIDE OF THE PIPE FACING THE GREEN.

MAINLINE TRENCH
NOT TO SCALE

EROSION & SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, DATED JANUARY 1988 AND APPLICABLE LOCAL REGULATIONS. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.

3. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE ENGINEER.

4. CATCH BASINS WILL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.

5. THE CONTRACTOR SHALL ESTABLISH AN EROSION CONTROL LINE (HAYBALE CHECK OR FILTER FABRIC) ABOUT TEN (10') FEET FROM TOE SLOPE OF PROPOSED EXCAVATION AREAS PRIOR TO BEGINNING FILL INSTALLATION. STABILIZATION OF SLOPES IN EXCAVATION AREAS (USING MULCH OR GRASS) SHALL IN INITIATED WITHIN THIRTY (30) DAYS OF COMMENCEMENT OF FILL INSTALLATION.

6. STABILIZATION OF SLOPES IN CUT AREAS (USING MULCH OR GRASS) AND THE INSTALLATION OF CONTROL LINE (HAYBALE CHECK OR FILTER FABRIC) AT THE TOE OF SLOPE SHALL BE INITIATED WITHIN THE FIRST THIRTY (30) DAYS OF COMMENCEMENT OF CUT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.

8. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN THIRTY (30) DAYS AFTER LAND DISTURBANCES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZE SOILS.

9. HAYBALES SHALL BE USED ONLY AS A TEMPORARY MEASURE. WHERE CONTROL MEASURES WILL BE REQUIRED FOR LONGER THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED.

10. WHERE DEWATERING IS NECESSARY, THERE SHALL NOT BE A DISCHARGE DIRECTLY INTO WETLANDS OR WATERCOURSES OTHER THAN WHAT IS SHOWN ON THE PROPOSED CONDITIONS PLAN SHEETS. PROPER METHODS AND DEVICES SHALL BE UTILIZED TO THE EXTENT PERMITTED BY LAW, SUCH AS PUMPING WATER INTO A TEMPORARY SEDIMENTATION BOWL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF A PUMPING OPERATION IS CAUSING TURBIDITY PROBLEMS, SAID OPERATION SHALL CEASE UNTIL SUCH TIME AS FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED.

11. ANY MATERIALS TRACKED ONTO ANY EXISTING ROADWAY SHALL BE SWEPT UP AT THE END OF EACH DAY.

ELEVATION

SECTION

NOTES:

1.) INSTALL SILT FENCE & WOOD STAKES AS RECOMMENDED BY MANUFACTURER.

2.) SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE , NYLON , POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)
TENSILE STRENGTH AT 20% (MAX.) ELONGATION	EXTRA STRENGTH 50 lbs. / LIN. IN. STANDARD STRENGTH 30 lbs. / LIN. IN. (MIN.)
FLOW RATE	0.3 GAL. / SQ. FT. / MIN. (MIN.)

SILT FENCE

SECTION

PLAN

CONSTRUCTION SPECIFICATIONS
1. SOCKS SHALL BE PLACED IN A ROW WITH ENDS OVERLAPPING THE ADJACENT SOCK.
2. SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES DRIVEN THOUGH THE SOCKS.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. SOCKS SHALL BE REMOVED WHEN WORK IS COMPLETE AN THE AREA HAS STABILIZED.

SEDIMENT CONTROL "COMPOST SOCK"
NOT TO SCALE

NOTES
1. CONTRACTOR SHALL MAINTAIN ALL SILT SACK SEDIMENT CONTROL DEVICE INSTALLATIONS AND REPLACE WHEN SATURATED WITH SEDIMENT BASED ON MANUFACTURER RECOMMENDATIONS. SILT SACK SHALL BE INSPECTED AFTER EVERY RAIN EVENT BUT NO LONGER THAN EVERY TWO WEEKS.
2. SILT SACK SHALL BE DOUBLE NEEDLE SEWN POLYPROPLYENE GEOTEXTILE FABRIC AND RATED FOR HIGH FLOW UNLESS OTHERWISE DIRECTED.
3. CONTRACTOR SHALL PROVIDE CURB OPENING DEFLECTOR AT ALL CATCH BASINS AS NECESSARY.
4. SILT SACKS SHALL BE INSTALLED IN ALL DRAINAGE STRUCTURE INLETS (CATCH BASINS, DROP INLETS, ETC.) WITHIN 50 FT. OF AND IMMEDIATELY DOWN GRADE FROM ALL WORK AREAS.
5. REGULAR FLOW = 40 GAL/MIN/SF
HIGH FLOW = 200 GAL/MIN/SF

SILT SACK DETAIL
N.T.S.

TRENCH DETAIL
(N.T.S.)

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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

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MISC. DETAILS

SEAL OF THE CITY OF HARTFORD CONNECTICUT

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Project No.
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1. LOCATION OF EXISTING SUBMERSIBLE WELL PUMP TO BE REMOVED AND REPLACED. DISCONNECT, REMOVE EXISTING ELECTRICAL FEEDER TO PUMP IN WELL AND REPLACE WITH SUBMERSIBLE PUMP CABLE-SIZED AS FEEDER IS
2. REMOVE EXISTING CONDUCTORS FROM EXISTING BURIED CONDUIT AND REPLACE WITH SIZE AS INDICATED. IF EXISTING CONDUIT IS IN UNSATISFACTORY CONDITION TO PULL REPLACEMENT CONDUCTORS THROUGH, THEN DIG UP REPLACE THE CONDUIT AND CONDUCTORS SIZED AS INDICATED. PROVIDE UNIT PRICES FOR CONDUIT REPLACEMENT.
3. EXISTING JUNCTION BOX TO BE REUSED. RECONNECT ELECTRICAL FEEDS TO EXISTING AERATOR

AZTECH ENGINEERS, INC.
Aztech Engineers, Inc.
901 Wethersfield Avenue
Hartford, Ct. 06114
Phone (860)548-9987
Fax (860)549-2572
www.aztecheng.com

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ELECTRICAL PLAN

SEAL OF THE CITY OF HARTFORD CONNECTICUT

Sheet Name
E-1

Project No.
6982

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ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	FLOOR MOUNTED JUNCTION BOX
	SUBMERSIBLE WATER PUMP
	ELECTRICAL FEEDER
	EVERSOURCE TRANSFORMER
	CURRENT TRANSFORMER

HOMERUN CIRCUIT SYMBOLS

3	SINGLE PHASE CIRCUIT	120 OR 277 VOLT
3,5	CONSECUTIVE SINGLE PHASE CIRCUITS	120 OR 277 VOLT
3/5	SINGLE PHASE CIRCUIT (2 POLE)	208 OR 480 VOLT
1/3/5	THREE (3) PHASE CIRCUIT (3 POLE)	208 OR 480 VOLT

PANELBOARD P1

LOCATION	CLASS	BUS SIZE	MAIN TYPE	VOLTAGE CHARACTERISTICS		MOUNTING	MCCB MOUNTING	FEEDER ENTRANCE	INCOMING FEEDER	MINIMUM SCR.	SE RATING
				120/240V/1PH WITH 100% RATED NEUTRAL WITH EQUIPMENT GROUND BUS							
PUMP HOUSE	–	600	MCB			SURFACE	–	BOTTOM	–	22 KAIC	–

CIR. NO.	DESCRIPTION	P	TRIP SIZE	A	B	TRIP SIZE	P	DESCRIPTION	CIR. NO.
1	IRRIGATION PUMPS CONTROLLER	2	600	–		60	2	WELL PUMP #1	2
3					–				4
5	WELL PUMP #2	2	60	–		30	2	AERATOR #1	6
7					–				8
9	AERATOR #2	2	30	–		–	–	–	10
11					–	–	–	–	12
13	–	–	–	–		–	–	–	14
15	–	–	–		–	–	–	–	16
17	–	–	–	–		–	–	–	18
19	–	–	–		–	–	–	–	20
21	–	–	–	–		–	–	–	22
23	–	–	–		–	–	–	–	24
25	–	–	–	–		–	–	–	26
27	–	–	–		–	–	–	–	28
29	–	–	–	–		–	–	–	30
	APPROXIMATE TOTALS			–	–				

NOTE:

STANDARD FEEDER SIZES FOR 75°C THWN/THHN COPPER WIRE IN METAL OR NON-METALLIC CONDUIT

FDR NO.	CONDUIT	3 PHASE, 3WIRE CABLE	GROUND	NOM. AMPS	CALC. AMPS	FDR NO.	CONDUIT	3 PHASE, 4 WIRE CABLE	GROUND	NOM. AMPS	CALC. AMPS
1A	3/4"	3-#12	1-#12	20	20	1B	3/4"	4-#12	1-#12	20	20
2A	3/4"	3-#10	1-#10	30	30	2B	3/4"	4-#10	1-#10	30	30
3A	1"	3-#8	1-#10	40	50	3B	1"	4-#8	1-#10	40	50
4A	1"	3-#8	1-#10	50	50	4B	1"	4-#8	1-#10	50	50
5A	1"	3-#6	1-#10	60	65	5B	1"	4-#6	1-#10	60	65
6A	1-1/4"	3-#4	1-#8	70	85	6B	1-1/4"	4-#4	1-#8	70	85
7A	1-1/4"	3-#3	1-#8	100	100	7B	1-1/4"	4-#3	1-#8	100	100
8A	1-1/2"	3-#1	1-#6	125	130	8B	2"	4-#1	1-#6	125	130
9A	2"	3-#1/0	1-#6	150	150	9B	2"	4-#1/0	1-#6	150	150
10A	2"	3-#2/0	1-#6	175	175	10B	2"	4-#2/0	1-#6	175	175
11A	2"	3-#3/0	1-#6	200	200	11B	2-1/2"	4-#3/0	1-#6	200	200
12A	2-1/2"	3-#4/0	1-#4	225	230	12B	2-1/2"	4-#4/0	1-#4	225	230
13A	3"	3-250MCM	1-#4	250	255	13B	3"	4-250MCM	1-#4	250	255
14A	3"	3-350MCM	1-#4	300	310	14B	3"	4-350MCM	1-#4	300	310
15A	3-1/2"	3-500MCM	1-#3	350	380	15B	4"	4-500MCM	1-#3	350	380
16A	3-1/2"	3-500MCM	1-#3	400	380	16B	4"	4-500MCM	1-#3	400	380
17A	(2) 2-1/2"	3-#4/0	1-#2	450	460	17B	(2) 2-1/2"	4-#4/0	1-#3	450	460
18A	(2) 3"	3-250MCM	1-#2	500	510	18B	(2) 3"	4-250MCM	1-#2	500	510
19A	(2) 3"	3-350MCM	1-#1	600	620	19B	(2) 3"	4-350MCM	1-#1	600	620
20A	(2) 3"	3-500MCM	1-#1/0	700	760	20B	(2) 4"	4-500MCM	1-#1/0	700	760
21A	(2) 3"	3-500MCM	1-#1/0	800	760	21B	(2) 4"	4-500MCM	1-#1/0	800	760
22A	(2) 4"	3-400MCM	1-#2/0	1000	1005	22B	(3) 4"	4-400MCM	1-#2/0	1000	1005
23A	(4) 4"	3-350MCM	1-#3/0	1200	1240	23B	(4) 4"	4-350MCM	1-#3/0	1200	1240
24A	(5) 4"	3-300MCM	1-#4/0	1400	1425	24B	(5) 4"	4-300MCM	1-#4/0	1400	1425
25A	(5) 4"	3-400MCM	1-#4/0	1600	1675	25B	(5) 4"	4-400MCM	1-#4/0	1600	1675
26A	(5) 4"	3-500MCM	1-250MCM	1800	1900	26B	(5) 4"	4-500MCM	1-250MCM	1800	1900
27A	(6) 4"	3-400MCM	1-250MCM	2000	2010	27B	(6) 4"	4-400MCM	1-250MCM	2000	2010
28A	(7) 4"	3-500MCM	1-350MCM	2500	2660	28B	(7) 4"	4-500MCM	1-350MCM	2500	2660
29A	(8) 4"	3-500MCM	1-400MCM	3000	3040	29B	(8) 4"	4-500MCM	1-400MCM	3000	3040
30A	(11) 4"	3-500MCM	1-500MCM	4000	4180	30B	(11) 4"	4-500MCM	1-500MCM	4000	4180
31A	(14) 4"	3-500MCM	2-350MCM	5000	5320	31B	(14) 4"	4-500MCM	2-350MCM	5000	5320
32A	(16) 4"	3-500MCM	2-500MCM	6000	6080	32B	(16) 4"	4-500MCM	2-500MCM	6000	6080

NOTE:
WHEN A FEEDER SUPPLIES AN ISOLATED GROUND PANEL OR SUB PANEL, AN ADDITIONAL GROUND WIRE SHALL BE PROVIDED WITH AND IDENTIFIED BY GREEN INSULATION WITH A YELLOW STRIPE. THE ISOLATED GROUND WIRE SHALL BE ROUTED THROUGH PANELS IN ACCORDANCE WITH NEC SECTION 384-20 AND TERMINATE AT THE BUILDING INCOMING SEVICE.

NOTE: PROVIDE SUITABLE BACKFILL (NO ROCKS)

1 OVERHEAD SERVICE DETAIL
NOT TO SCALE

PLAN

SECTION A–A

NOTES

1. 75–300 KVA – INSTALL 76"X 54" X 36" PAD AS PER SPC P–013 AND P–014
   500–2500 KVA – INSTALL 76"X 70" X 36" PAD AS PER SPC P–015 AND P–016
2. PRIMARY CABLE
   A. INSTALL DIRECT BURIED CABLES A MINIMUM OF 30" BELOW GRADE.
   B. INSTALL CABLES IN CONDUIT A MINIMUM OF 24" BELOW GRADE.
   C. LOOP CABLES IN CABLE PIT BEFORE MAKING CONNECTIONS.
3. SECONDARY CABLE – LEAVE SLACK FOR FUTURE RECONNECTION TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS.
4. GALVANIZED GROUND ROD – INSTALL IN TRENCH AND CONNECT A #2 COPPER CONDUCTOR FROM ROD THROUGH PAD OPENING AND EXTENDING 5' ABOVE PAD.
5. THE FOLLOWING DTR'S/DSEM'S SHOULD ALSO BE USED:
   A. DTR 42.061 – LOCATION AND MECHANICAL PROTECTION REQUIREMENTS.
   B. DTR 56.509 – PRIMARY, SECONDARY AND TRANSFORMER GROUNDING.
   C. DTR 17.083 – THREE PHASE TRANSFORMER CONNECTIONS.
   D. DSEM SECTION 14.21– LOADING LIMITS THREE PHASE TRANSFORMERS
   E. DSEM SECTION 07.30 – CONVENTIONAL UG LOOPS
   F. DTR 56.221– JACKETED PRIMARY CABLE
6. THE EXCAVATION FOR THE PAD SHALL BE CARRIED TO A DEPTH OF 12" BELOW THE BOTTOM OF THE PAD WALLS. THE BACKFILL UNDER THE PAD WALLS SHALL BE A CLEAN GRAVEL, FREE OF FOREIGN MATTER AND CONSTRUCTION DEBRIS, AND IN ACCORDANCE WITH CONNECTICUT DOT SPEC M.02.06 GRADING "A"; OR MASSACHUSETTS DPW SPEC M1.03.0 TYPE B. BACKFILL SHALL BE PLACED IN 6" LAYERS AND COMPACTED WITH MECHANICAL TAMPERS TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD COMPACTION TESTS, AASHTO T180 OR ASTM D698.

3 TRANSFORMER PAD DETAIL
NOT TO SCALE

COMPOSITE HANDHOLE CONSTRUCTED OF POLYMER CONCRETE AND REINFORCED BY A HEAVY–WEAVE FIBERGLASS. SPECIAL COLOR FOR HANDHOLE AND COVER SHALL BE SELECTED BY OWNER, RATED FOR NO LESS THAN 8,000 POUND LOAD OVER A 10"X10" AREA. STACKABLE HANDHOLES BOTH WITH GASKET MANUFACTURED BY QUAZITE PART NO. PC1118DG12 (SOLID BOTTOM HANDHOLE) & PC1118CG17 (HANDHOLE COVER).

4 ELECTRICAL HAND HOLE DETAIL
NOT TO SCALE

6 EXTERNAL BUILDING GROUND GRID DETAIL
NOT TO SCALE

5 ELECTRICAL WIRING DIAGRAM
NOT TO SCALE

TRENCH EXCAVATION SHALL CONSIST OF THE REMOVAL OF ALL MATERIALS, EXCAVATION, TRENCH WALL SUPPORTS, DEWATERING, TEMPORARY STREAM OR GROUNDWATER DIVERSION. SATISFACTORY DISPOSAL OF ALL SURPLUS OR UNSUITABLE MATERIAL; BACKFILL AND COMPACTION NECESSARY FOR THE CONSTRUCTION OF THE WORK AT THE LOCATIONS AND TO THE DIMENSIONS AS SHOWN ON THE CONTRACT DRAWINGS OR AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE MINIMAL ACCEPTABLE QUANTITIES.

WHEN EXISTING PAVEMENT HAS BEEN REMOVED, REPLACE WITH SAME TYPE AND THICKNESS OF PAVEMENT AND SUBBASE. IF EXCAVATION IS WITHIN GRASS AREA, DISTURBED AREAS SHALL BE REPAIRED WITH SEED. IF EXISTING CURB IS DAMAGED OR REMOVED, REPLACE WITH SAME TYPE OF CURB TO DIMENSIONS OF EXISTING CURB. IF CONCRETE WALKS ARE DISTURBED REPLACE WITH CONCRETE TO MATCH EXISTING THICKNESS.

7 TRENCH EXCAVATION DETAIL
NOT TO DETAIL

NOTES

FIGURE 1
1.1 PRIMARY ZONE
A) THE PRIMARY ZONE IS RESTRICTED TO THE AREA SHOWN AND SHOULD CONTAIN TWO 4" G.S. CONDUITS.
B) THE CONDUIT SWEEPS INTO THE FOUNDATION SHALL BE GALVANIZED STEEL, 90 DEGREES BEND, 36" RADIUS.
C) EACH CONDUIT SHOULD EXTEND A MINIMUM OF 1" TO A MAXIMUM OF 3" ABOVE THE TOP OF THE FOUNDATION AND SHALL HAVE THREADED ENDS.
D) EACH CONDUIT SHALL BE PROVIDED WITH A GROUNDING TYPE CHAFE BUSHING AND SHALL BE PLUGGED UNTIL THE PRIMARY CABLES ARE INSTALLED.
1.2 SECONDARY ZONE
E) THE SECONDARY ZONE IS RESTRICTED TO THE AREA SHOWN AND MAY CONTAIN A MAXIMUM OF TEN 4" CONDUITS.
F) INSTALLATION OF THE REQUIRED NUMBER, SIZE, AND TYPE OF CONDUITS BROUGHT INTO THE FOUNDATION SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE NEC AND WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
G) EACH CONDUIT SHALL EXTEND A MINIMUM OF 1" TO A MAXIMUM OF 3" ABOVE THE TOP OF THE FOUNDATION. WHEN METAL CONDUITS ARE USED, THEY SHALL HAVE THREADED ENDS.
H) METAL CONDUITS SHALL BE PROVIDED WITH GROUNDING TYPE CHAFE BUSHINGS AND EACH CONDUIT SHALL BE PLUGGED UNTIL THE SECONDARY CABLES ARE INSTALLED.
1.3 THE RESTRICTIONS ON THE NUMBER OF CONDUITS ALLOWED IN THE SECONDARY ZONE ARE BASED UPON PHYSICAL LIMITATIONS.
1.4 WHEN THE SECONDARY CONDUCTOR SIZE EXCEEDS 500 MCM, A MAXIMUM OF SIX CONNECTIONS PER PHASE ARE POSSIBLE.

FIGURE 2
2.1 FOUR COPPERWELD GROUND RODS AND A #4/0 AWG BARE COPPER GROUNDING GRID SHALL BE INSTALLED AND CONNECTED WITH (5) APPROVED GROUND GRID CONNECTORS AS SHOWN.
2.2 THE GROUND GRID "TAILS" SHALL BE BROUGHT, BELOW GRADE, INTO THE FOUNDATION WINDOW AS SHOWN.
2.3 THE GROUND RODS, GROUND GRID, PRIMARY NEUTRALS, SECONDARY NEUTRALS, TRANSFORMER TANK AND CONDUITS SHALL ALL BE EFFECTIVELY BONDED TOGETHER.
2.4 ALL GROUNDING AND BONDING SHALL BE DONE WITH COPPER WIRE. THE MINIMUM CONDUCTOR SIZE FOR BONDING METAL CONDUITS IS #4 AWG BARE COPPER; ALUMINUM WIRE IS NOT ACCEPTABLE.
2.5 GROUNDING BUSHINGS SHALL BE USED FOR BONDING ALL METAL CONDUITS.
2.6 THE GROUND GRID AND ASSOCIATED CONNECTIONS REQUIRE U.I. INSPECTION PRIOR TO BACKFILLING THE AREA.

FIGURE 3
3.1 A COMPACTED BASE OF CRUSHED STONE OF 12" MINIMUM DEPTH SHALL BE INSTALLED ON A LEVEL COMPACTED SUB–GRADE WITH A MINIMUM SOIL BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT.
3.2 CONCRETE SHALL CONFORM WITH ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE; AND SHALL HAVE A MINIMUM ULTIMATE STRENGTH (F'C') OF 3,000 PSI AT 28 DAYS, A MAXIMUM OF 1 1/2" COARSE AGGREGATE, AND AIR ENTRAINMENT FOR A TOTAL AIR CONTENT OF 3% – 6% BY VOLUME.
3.3 REINFORCING STEEL SHALL BE NEW, DEFORMED BARS MEETING ASTM A615 SPECIFICATIONS FOR GRADE NO. 60 STEEL. THE REINFORCING SHOWN IS TYPICAL FOR FIELD FABRICATION.
3.4 A PRE–CAST FOUNDATION WILL REQUIRE LIFTING EYES AND MAY REQUIRE ADDITIONAL REINFORCING TO HANDLE THE STRESSES OF TRANSPORTATION AND SETTING IN PLACE.
3.5 THE TOP SURFACE SHALL BE SMOOTH AND LEVEL WITH A 1" CHAMFER ALONG THE UPPER EDGES.

FIGURE 4
4.1 THE LOCATION AND ORIENTATION OF THE FOUNDATION MUST BE APPROVED BY U.I. PRIOR TO THE START OF CONSTRUCTION. SEE U.I. STANDARDS 20501, 20503, 23006 FOR LOCATION AND INSTALLATION REQUIREMENTS.

MATERIAL			
ITEM	DESCRIPTION	QTY.	REFERENCE
1	CONCRETE FOUNDATION	1	FIG. 3
2	GROUND ROD 5/8" DIA. x 8'	4	DMS030
3	GROUND GRID CONNECTOR	5	DMS030
4	GRD. WIRE #4/0 AWG. BARE CU.	60'	DMS030

FIG. 1
CONDUIT INSTALLATION DETAILS

NOTE: CRITICAL –
PRIMARY & SECONDARY CONDUITS MUST FALL WITHIN SHADED AREA INDICATED.

FIG. 2
GROUNDING AND BONDING DETAILS

NOTE: CRITICAL –
1) GROUND GRID CONNECTORS (5) MUST BE U.I. APPROVED BREAKOFF TYPE CONNECTOR OR EXOTHERMAL WELDS.
2) GROUND GRID CONNECTIONS SHOULD BE LEFT EXPOSED FOR INSPECTION BY U.I.
3) INSPECTION SCHEDULING REQUIRES TWO FULL WORKING DAYS NOTICE.

FIG. 3
CONCRETE DETAILS
(NOTE 3.2)

FIG. 4
ISOMETRIC
COMPLETED ASSEMBLY

8 TRANSFORMER PAD INSTALLATION DETAIL
NOT TO SCALE

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DETAILS, NOTES, SCHEDULES AND SYMBOLS

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E-2

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